FOR INDEX OF SHEETS SEE SHEET 2

04-27-12 LETTING ITEM 012

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

VARIOUS LOCATIONS IN SOUTH KANE COUNTY / KENDALL COUNTY SECTION: 2011-221-I

LIGHT EMITTING DIODE (LED) INSTALLATION
KANE / KENDALL
C-91-222-12

STATE STANDARDS

701006 - 03 OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE

701701 - 08 URBAN LANE CLOSURE, MULTILANE INTERSECTION

701901 - 02 TRAFFIC CONTROL DEVICES

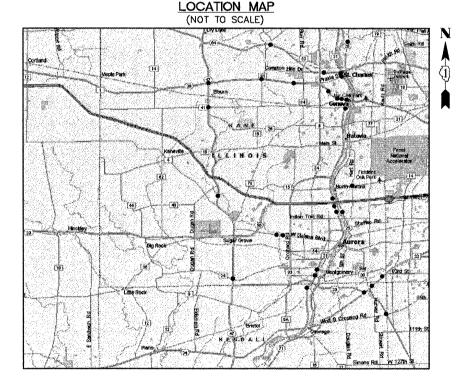
857001 – 01 PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES 862001 – 01 UNINTERRUPTABLE POWER SUPPLY (UPS)

880006 – 01 TRAFFIC SIGNAL MOUNTING DETAILS

0 100' 200' 300' 1"= 100' 0 50' 100' 1"= 50' 0 50' 100' 1"= 40' 0 50' 100' - 1"= 30' 0 50' - 100' - 1"= 20'

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.





SOUTH KANE COUNTY / KENDALL COUNTY LOCATION MAP
(SEE SHEET NO. 3)

> D-91-222-12 * 43+2= 45





SIGNED: Kevin L. Bulgrave

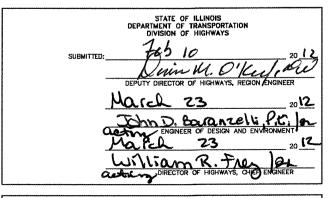
Kevin L. Belgrave

DATE: 2/9/12

EXPIRES: 11/30/2013

GEWALT HAMILTON ASSOCIATES, INC.

850 Forest Edge Drive * Vernon Hills, IL. 60061 Consulting Engineers & Surveyors 847-478-9700 FAX: 847-478-9701



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 60R81

INDEX OF SHEETS

- TITLE SHEET
- INDEX OF SHEETS AND GENERAL NOTES
- LOCATION MAP
- SUMMARY OF QUANTITIES
- DISTRICT ONE TRAFFIC SIGNAL STANDARD DETAIL SHEETS

TRAFFIC SIGNAL PLANS

- W. GALENA BOULEVARD AT BARNES ROAD
- W. GALENA BOULEVARD AT HANKES ROAD
- 13.-15.
- ILL RTE 31 (LINCOLNWAY HWY) AT SULLIVAN ROAD
- U.S. RTE 34 (OGDEN AVENUE) AT RIDGE AVENUE / WATERFORD DRIVE
- IL RTE 38 (LINCOLNWAY HWY) AT ILL RTE 47 (MAIN STREET)
 ILL RTE 47 (MAIN STREET) AT KESLINGER ROAD
- ILL RTE 31 AT THIRD STREET/ GOVERNMENT CENTER ENTRANCE
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- ILL RTE 38 (STATE STREET) AT ANDERSON BOULEVARD
 ILL RTE 38 (STATE STREET) AT WILLIAMSBURG AVENUE
- ILL RTE 64 AT BURLINGTON ROAD / LA FOX ROAD
- U.S. RTE 30 / ILL RTE 47 AT JERICHO ROAD
- ILL RTE 31 (S. LAKE STREET) AT KNELL ROAD
 ILL RTE 31 AT AUCUTT ROAD / WEBSTER STREET
- 28.-29
- ILL RTE 31 AT AIRPORT ROAD
- ILL RTE 31 AT LOVEDALE LANE
- ILL RTE 56 (BUTTERFIELD ROAD) AT HART ROAD / MITCHELL ROAD ILL RTE 25 AT COUNTRY CLUB ROAD / BILL BARTH DRIVE
- ILL RTE 31 (SECOND STREET) AT ILLINOIS STREET
- ILL RTE 31 (SECOND STREET) AT PRAIRIE STREET
- ILL RTE 38 AT LA FOX ROAD ILL RTE 38 AT PECK ROAD

FILE NAME =

4085,881 - TR1,dwg

- ILL RTE 64 (W. MAIN STREET) AT 15TH STREET
- ILL RTE 47 AT WAUBONSEE DRIVE / HEARTLAND DRIVE ILL RTE 31 AT CATERPILLAR DRIVE / FRONTAGE ROAD
- U.S. RTE 30 AT WOLF'S CROSSING ROAD
- U.S. RTE 30/34 AT U.S. RTE 30/OGDEN FALLS BOULEVARD U.S. RTE 34 (OGDEN AVENUE) AT FARNSWORTH AV / HAFFENRICHTER RD

SER NAME = ZACH WALLSTEN

PLOT SCALE = 1" = .0833'

PLOT DATE ≈ 2/3/2012

DESIGNED - JRD

DRAWN - ZCW

CHECKED - KLB

DATE - 2/3/2012

REVISED -

REVISED

REVISED

REVISED

GENERAL NOTES

THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", JANUARY 1, 2012: MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION; PROJECT SPECIFICATIONS: ALL APPLICABLE REQUIREMENTS OF THE DUPAGE COUNTY DIVISION OF TRANSPORTATION; THE VILLAGE OF GLEN ELLYN; THE CITY OF WHEATON; THE VILLAGE OF CAROL STREAM; THE VILLAGE OF GLENDALE HEIGHTS; THE VILLAGE OF BLOOMINGDALE; ALL APPLICABLE REQUIREMENTS OF THE ORDINANCES OF AUTHORITIES HAVING JURISDICTION: AND ALL ADDENDA THERETO SHALL GOVERN THIS WORK

THE STANDARD SPECIFICATIONS, PROJECT SPECIFICATIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED A PART OF THE CONTRACT.

WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE AND POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OF UNSTABLE MATERIALS CREATED AS A RESULT THEREOF.

THE CONTRACTOR SHALL SOLEY BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.

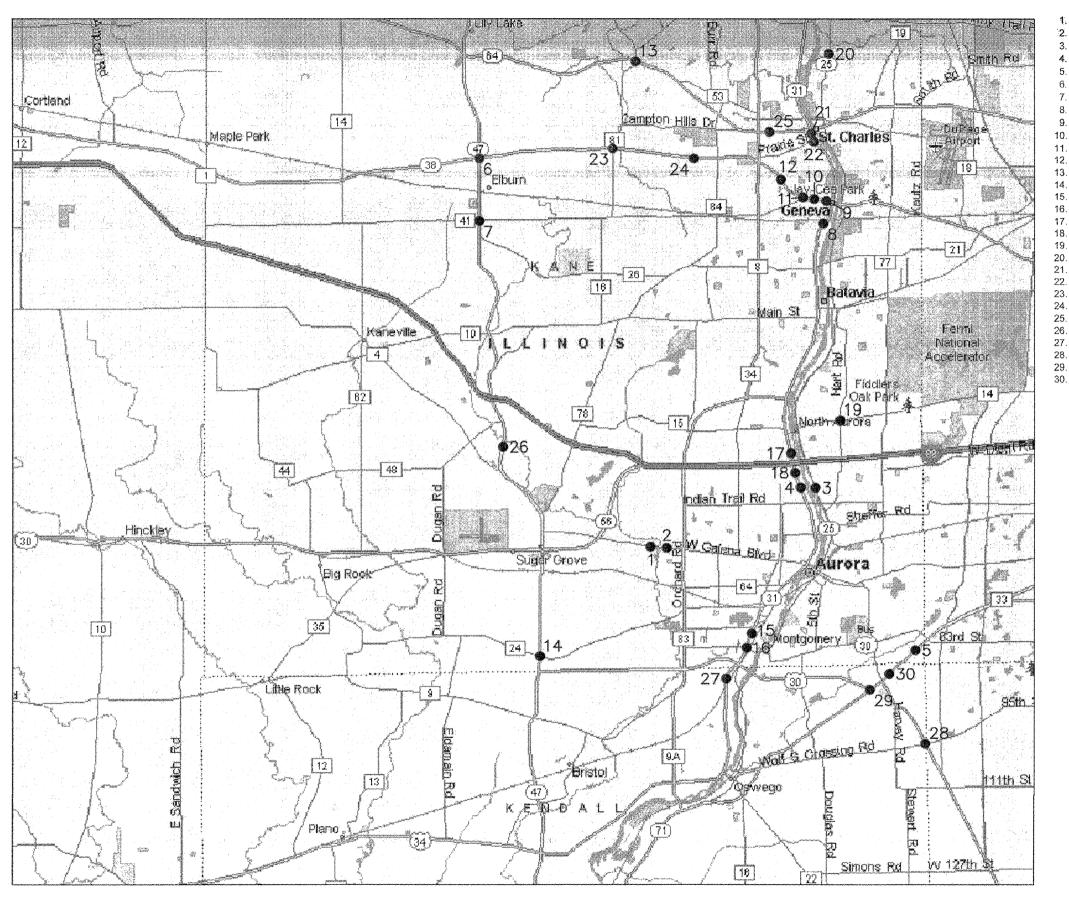
THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.

EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER IN RESPECT TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. THE CONTRACTOR SHALL ALSO CONTACT J.U.L.I.E. TO OBTAIN LOCATES OF THE RESPECTIVE UTILITY

CONTRACTOR IS RESPONSIBLE FOR CONTACTING J.U.L.I.E. AT 1-800-892-0123 AND MUST ACQUIRE A DIG NUMBER A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE

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 IN ACCORDANCE TO STANDARE SPECIFICATIONS ARTICLE 252 WHICH SHALL INCLUDE THE REQUIRED WATERING PER ARTICLE 252.08. ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE ITH STANDARD SPECIFICATIONS ARTICLE 250 AND 251, RESPECTIVELY

				************						GHA #4	085.881
STATE OF ILLINOIS	INDE	EX OF S	HEET	S AND	GENERAL	NOTES	FAP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
							VARIES	2011-221-1	KANE/KENDALL	43	2
DEPARTMENT OF TRANSPORTATION		·			·				CONTRACT	#: 60	R81
	SCALE N.A.	SHEET NO.	OF	SHEETS	STA.	TO STA.		HILINOIS FED	AID PROJECT		



LE NAME =

4085.381 - FR1,6*g

SER NAME = ZACH WALLSTEE

DESIGNED

CHLOXED - KLB

- 2/3/2012

DRAWN

DATE

REVISED

REVISED

REVISED

REVISED

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

INTERSECTION

- . W. GALENA BOULEVARD AT BARNES ROAD
- W. GALENA BOULEVARD ATHANKES ROAD
- 3. ILL RTE 25 AT SULLIVAN ROAD
- . ILL RTE 31 (LINCOLNWAY HWY) AT SULLIVAN ROAD
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- . ILL RTE 38 (STATE STREET) AT ANDERSON BOULEVARD
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- ILL RTE 31 AT LOVEDALE LANE
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- 20. ILL RTE 25 AT COUNTRY CLUB ROAD / BILL BARTH DRIVE
- 21. ILL RTE 31 (SECOND STREET) AT ILLINOIS STREET
- 22. ILL RTE 31 (SECOND STREET) AT PRAIRIE STREET
- B. ILL RTE 38 AT LA FOX ROAD
- ILL RTE 38 AT PECK ROAD
- 25. ILL RTE 64 (W. MAIN STREET) AT 15TH STREET
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- ILL RTE 31 AT CATERPILLAR DRIVE / FRONTAGE ROAD
- 28. U.S. RTE 30 AT WOLF'S CROSSING ROAD
- U.S. RTE 30 / 34 AT U.S. RTE 30 / OGDEN FALLS BOULEVARD
- U.S. RTE 34 (OGDEN AVENUE) AT FARNSWORTH AV / HAFFENRICHTER RD

	LOCATION	6	20, 21, 22, 24, 25	7, 13, 14, 23	1, 2, 3, 4, 5, 30	8, 9	10, 11, 12	15, 16	17	18, 19	26	28	29	27
SUMMARY OF QUANTITIES	FUNDING BREAK DOWNS	100% STATE	95% STATE, 5% CITY OF ST. CHARLES	95% STATE, 5% KANE COUNTY	95% STATE, 5% CITY OF AURORA	95% STATE, 5% CITY OF GENEVA	96.7% STATE, 3.3% CITY OF GENEVA	95% STATE, 5% VILLAGE OF MONTGOMERY	96.7% STATE, 3.3% VILLAGE OF NORTH AURORA	95% STATE, 5% VILLAGE OF NORTH AURORA	95% STATE, 5% VILLAGE OF SUGAR GROVE	95% STATE, 5% TOWNSHIP OF OSWEGO	97.5% STATE, 2.5% VILLAGE OF OSWEGO	95% STATE 5% VILLAGI OF OSWEGO
NO LODENO LITEM	TYPE	0024	0024	0024	0004	0024	0024	0024	0024	0024	0024	0024	0024	0024
NO. CODE NO. ITEM 1. 67100100 MOBILIZATION	L SUM 1	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021
2. 70102635 TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM 1	1												
3. 85000200 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH 30	1	5	4	6	2	3	2	1	2	1	1	1	1
4. 86400100 TRANSCEIVER - FIBER OPTIC	EACH 1													1
5. 87502480 TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH 1			1										
6. 87502500 TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH 1			1										
7. 88030020 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH 20					6	9	3						2
8. 88030050 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH 11					2	7	1						1
9. 88030070 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH 4							1						3
10. 88030080 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH 1							1						
11. 88030100 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH 8					2	6							
12. 88030110 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH 9					2	3	2						2
13. 88030240 SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH 2						1	1						
14. 88030260 SIGNAL HEAD, LED, 3-FACE, 1-4 SECTION, 2-5 SECTION, BRACKET MOUNTED	EACH 1													1
15. 88030330 SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED	EACH 1							1						
16. 88102717 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH 42		18	2	6	10	4		2					
17. 88102747 PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH 12		4	1	1	3	3							
18. 88200210 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH 24					8	12							4
19. 88500100 INDUCTIVE LOOP DETECTOR	EACH 8													8
20. 88800100 PEDESTRIAN PUSH-BUTTON	EACH 24		18		4				2					
21. 89100400 ILLUMINATED SIGN, LED	EACH 2					2								
22. 89500100 RELOCATE EXISTING SIGNAL HEAD	EACH 4			4										
23. 89502210 MODIFYEXISTING CONTROLLER CABINET	EACH 29	1	5	4	6	2	3	2	1	2	1	1	1	
24. 89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH 18	1	5	2	2	2	3	1	1					1
25. X8570226 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH 1													1
26. X8620200 UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH 29	1	5	3	6	2	3	2	1	2	1	1	1	1
27. X8803038 SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED, RETROFIT	EACH 1									_			1	
28. X8803040 SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH 8		2	1		1				4				
29. X8803050 SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION, 2-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH 1					1								
30. X8803080 SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED, RETROFIT	EACH 1												1	
31. X8803082 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH 6		4									2		
32. X8803084 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH 59	4	16	8	4	5				4		6	12	
33. X8803088 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH 33	4	8	8	4	3				4		2	. <u>-</u>	
34. X8803090 SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH 4	7		J	7	1				-			3	
35. X8803210 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH 23	4	6	7	4							2	3	
36. X8803910 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT 36. X8803910 SIGNAL HEAD, LED, 2 FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH 23	7			7	1								
		2	4	2	2	13	7							
37. X8880015 PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH 33	3	4	3	3	13	1							

- W. GALENA BOULEVARD AT HANKES ROAD ILL RTE 25 AT SULLIVAN ROAD
- ILL RTE 31 (LINCOLNWAY HWY) AT SULLIVAN ROAD
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- U.S. RTE 34 (OGDEN AVENUE) AT FARNSWORTH AV / HAFFENRICHTER RD

 COUNTY
 TOTAL SHEET NO.

 KANE/KENDALL
 43
 4
 F.A.P. RTE USER NAME = ZACH WALLSTEN **DESIGNED** - JRD REVISED -SUMMARY OF QUANTITIES SECTION STATE OF ILLINOIS REVISED -4085.881 – TR1.dwg DRAWN - ZCW 2011-221-I DEPARTMENT OF TRANSPORTATION REVISED -CONTRACT #: 60R81 PLOT DATE = 2/3/2012 **DATE** - 2/3/2012 SCALE: N.A. SHEET NO. OF SHEETS STA. TO STA REVISED -

				KANE COUNTY KENDALL COUNTY													
		LOCA	TION	6	20, 21, 22, 24, 25	7, 13, 14, 23	1, 2, 3, 4, 5	8, 9	10, 11, 12	15, 16	17	18, 19	26	28	29	27	30
	SUMMARY OF QUANTITIES	FUNI BREAKI		100% STATE	95% STATE, 5% CITY OF ST. CHARLES	95% STATE, 5% KANE COUNTY	95% STATE, 5% CITY OF AURORA	95% STATE, 5% CITY OF GENEVA	96.7% STATE, 3.3% CITY OF GENEVA	95% STATE, 5% VILLAGE OF MONTGOMERY	96.7% STATE, 3.3% VILLAGE OF NORTH AURORA	95% STATE, 5% VILLAGE OF NORTH AURORA	95% STATE, 5% VILLAGE OF SUGAR GROVE	95% STATE, 5% TOWNSHIP OF OSWEGO	97.5% STATE, 2.5% VILLAGE OF OSWEGO	95% STATE, 5% CATERPILLAR INC.	95% STATE, 5% CITY OF AURORA
		TY	PE	07A0 01	07C0 01	0780 at	0700 02	07C0 03	0700 00	107CO 15	07C0 06	07CD 07	0760 08	0700 01	07C0 0Z	07PO 01	07CO 03
CODE NO.	ITEM	UNIT		0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021
	MOBILIZATION	L SUM	1	1							•••••••••••••••••••••••••••••••••••••••						
6700040	O ENGINEER'S FIELD OFFICE TYPEA	CAL	4	4									-				1
70102635	O ENGINEER'S FIELD OFFICE, TYPE A TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1													
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	30	1	5	4	5	2	3	2	1	2	1	1	1	1	1
						***************************************		ashada mat sams Combi Chonton Con Vicalian cast cast sate					·10.00000000000000000000000000000000000		e de en		promovina de la constante de l
86400100	TRANSCEIVER - FIBER OPTIC	EACH	1													1	
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1			1											· · · · · · · · · · · · · · · · · · ·
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1			1											
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	20					6	9	3						2	
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	11					2	7	1						1	
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4							1						3	
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1							1							
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	8	***************************************				2	6								
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	9					2	3	2						2	
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2						1	1							
88030260	SIGNAL HEAD, LED, 3-FACE, 1-4 SECTION, 2-5 SECTION, BRACKET MOUNTED	EACH	1													1	
88030330	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED	EACH	1							1							
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	42		18	2	6	10	4		2						
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	12		4	1	1	3	3								
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	30					8	12	4						4	
<u>L.,</u>	W. GALENA BOULEVARD AT BARNES ROAD 9. ILL RTE 38 (S	TATE STR	REET) AT 3	RD STREET	l		17. ILL RTE 3	1 AT AIRPORT RO	AD AD	<u> </u>		25. ILL F	TE 64 (W. MAIN ST	REET) AT 15TH ST	REET	<u> </u>	

- W. GALENA BOULEVARD AT BARNES ROAD
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- ILL RTE 31 AT AIRPORT ROAD
 ILL RTE 31 AT LOVEDALE LANE
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 ILL RTE 25 AT COUNTRY CLUB ROAD / BILL BARTH DRIVE
 ILL RTE 31 (SECOND STREET) AT ILLINOIS STREET
 ILL RTE 31 (SECOND STREET) AT PRAIRIE STREET
 ILL RTE 38 AT LA FOX ROAD
 ILL RTE 38 AT PECK ROAD

- ILL RTE 64 (W. MAIN STREET) AT 15TH STREET
 ILL RTE 47 AT WAUBONSEE DRIVE / HEARTLAND DRIVE
 ILL RTE 31 AT CATERPILLAR DRIVE / FRONTAGE ROAD
 U.S. RTE 30 AT WOLF'S CROSSING ROAD

- U.S. RTE 30 /34 AT U.S. RTE 30 / OGDEN FALLS BOULEVARD
- U.S. RTE 34 (OGDEN AVENUE) AT FARNSWORTH AV / HAFFENRICHTER RD

								F	Rev. GHA #4085.88
FILE NAME =	USER NAME ≈ ZACH WALLSTEN	DESIGNED - JRD	REVISED -			SUMMARY OF QUANTITIES	FAP.	SECTION	COUNTY TOTAL SHEET NO.
4085.881~TR1.dwg		DRAWN - ZCW	REVISED	STATE OF ILLINOIS		John John Goratine	VARIES	2011-221-1	KANE/KENDALL 43 4A
	PLOT SCALE = 1" = .0833"	CHECKED - KLB	REVISED ~	DEPARTMENT OF TRANSPORTATION					CONTRACT #: 60R81
	PLOT DATE ≈ 2/3/2012	DATE ~ 2/3/2012	REVISED ~		SCALE N.A.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT

									KANE COUNTY							KENDALI	LCOUNTY	
			LOC	ATION	6	20, 21, 22, 24, 25	7, 13, 14, 23	1, 2, 3, 4, 5	8, 9	10, 11, 12	15, 16	17	18, 19	26	28	29	27	30
	SUMMARY OF QUAN	ITITIES		IDING (DOWNS	100% STATE	95% STATE, 5% CITY OF ST. CHARLES	95% STATE, 5% KANE COUNTY	95% STATE, 5% CITY OF AURORA	95% STATE, 5% CITY OF GENEVA	96.7% STATE, 3.3% CITY OF GENEVA	95% STATE, 5% VILLAGE OF MONTGOMERY	96.7% STATE, 3.3% VILLAGE OF NORTH AURORA	95% STATE, 5% VILLAGE O NORTH AURORA	95% STATE, 5% VILLAGE OF SUGAR GROVE		97.5% STATE, 2.5% VILLAGE OF OSWEGO	95% STATE, 5% CATERPILLAR INC.	95% STATE, 5% CITY OF AURORA
			TY	YPE							 	AGINGINA	AUNONA			 	1110.	
CODE NO. ITEM			UNIT	TOTAL	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021
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88800100 PEDESTRIAN PI	JSH-BUTTON		EACH	24	~	18	······	4		*************************************		2	*******************************					
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89100400 ILLUMINATED S	GN, LED		EACH	2					2		T							
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89500100 RELOCATE EXIS	STING SIGNAL HEAD		EACH	4	·/··/·/		4											
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89502210 MODIFY EXISTII	NG CONTROLLER CABINET		EACH	29	1	5	4	5	2	3	2	1	2	1	1	1		1
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X8570226 FULL-ACTUATE	CONTROLLER AND TYPE IV CAR	BINET, SPECIAL	EACH	1													1	
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X8803038 SIGNAL HEAD, L	ED, 2-FACE, 1-3 SECTION, 1-4 SE	ECTION, BRACKET MOUNTED, RETROFIT	EACH	1 1												1		
X8803040 SIGNAL HEAD, L	ED, 2-FACE, 1-3 SECTION, 1-5 SE	ECTION, BRACKET MOUNTED, RETROFIT	EACH	8	- 1 10 10 10 10 10 10 10	2	1		1	······································			4	***************************************		***************************************	***************************************	***************************************
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X8803050 SIGNAL HEAD, L	ED, 3-FACE, 1-3 SECTION, 2-5 SE	ECTION, BRACKET MOUNTED, RETROFIT	EACH	1 1					1			************************		****	***************************************			
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X8803080 SIGNAL HEAD, L	ED, 1-FACE, 1-SECTION, BRACKE	ET MOUNTED, RETROFIT	EACH	1												1		
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X8803084 SIGNAL HEAD, L	ED, 1-FACE, 3-SECTION, MAST AF	RM MOUNTED, RETROFIT	EACH	59	4	16	8		5				4		6	12		4
X8803088 SIGNAL HEAD. L	ED, 1-FACE, 5-SECTION, MAST AF	RM MOUNTED, RETROFIT	EACH	33	4	8	8	<u> </u>	3	***************************************	en e		4	····	2			4
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X8803090 SIGNAL HEAD, L	ED, 2-FACE, 3-SECTION, BRACKE	ET MOUNTED, RETROFIT	EACH	4					1							3		
X8803210 SIGNAL HEAD, L	ED, 1-FACE, 5-SECTION, BRACKE	ET MOUNTED, RETROFIT	EACH	23	4	6	7			***************************************			***************************************	***************************************	2			4
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X8880015 PEDESTRIAN PI	JSH-BUTTON, NON-LATCHING		EACH	33	3	4	3	3	13	7								
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1. W.GALFNA	BOULEVARD AT BARNES ROAD	9. ILL RTE 38 (STATE ST	REET) AT 31	RD STREET	<u> </u>	L	17. ILI RTF 3	I 31 AT AIRPORT RO	AD.	.l		25 11	TE 64 (W. MAIN ST	REET) AT 15TH ST	REET	<u> </u>	
2. W. GALENA I	BOULEVARD AT HANKES ROAD I SULLIVAN ROAD	10. ILL RTE 38 (STATE ST	REET) AT 7	TH STREET	C) (ADD		18. ILL RTE 3	31 AT LOVEDALE L	ANE	OAD / MITCHELL RO	040	26. ILL	RTE 47 AT WAUBON	SEE DRIVE / HEA	RTLAND DRIVE		
4. ILL RTE 31 (I	INCOLNWAYHWY) AT SULLIVAN ROAD	12. ILL RTE 38 (STATE ST	REET) AT W	NDERSON BOUL /ILLIAMSBURG A'	VENUE		20. ILL RTE 2	5 AT COUNTRY CL	UB ROAD / BILL B	ARTH DRIVE	DAD	28. U.S	RTE 31 AT CATERP . RTE 30 AT WOLF'S	CROSSING ROAD)		
6. IL RTE 38 (LI	OGDEN AVENUE) AT RIDGE AVENUE / WA ICOLNWAY HWY) AT ILL RTE 47 (MAIN STR	REET) 14. U.S. RTE 30	/ILL RTE 4	17 AT JERIC) / LA FOX ROAD HO ROAD				11 (SECOND STREE					. RTE 30 / 34 AT U.S . RTE 34 (OGDEN A				
7. ILL RTE 47 (N	IAIN STREET) AT KESLINGER ROAD THIRD STREET/ GOVERNMENT CENTER	15. ILL RTE 31 (S. LAKE ST	TREET) AT	KNELL ROAD EBSTER STREET	•		23. ILL RTE 3	88 AT LA FOX ROAI 88 AT PECK ROAD					,	,			
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - JRD REVISED -							- THE LOW NOAD		CIIA	MMARY OF	GUANTITIE	:s	F.A.P. RTE	SECTION	v cou	GHA #4085.8 INTY TOTAL SHEE SHEETS NO
4085.881 ~TR1.dwg	DIOT AGUE 1º ACCO	DRAWN - ZCW REVISED .	•			ST/ PARTMEN	ATE OF I		T A TIANI		3011		~OUIA I I I IE		VARIE		1-I KANE/K	ENDALL 43 4B
	PLOT SCALE = 1" = .0833' PLOT DATE = 2/3/2012	CHECKED - KLB REVISED - DATE - 2/3/2012 REVISED -				-ARIMEN	I OF IN	MUJOLOK	IAIION	SCALE N.A.	SHEET NO.	OF SHEETS	STA.	TO STA.		Tirr	INOIS FED. AID PROJE	ITRACT #: 60R81
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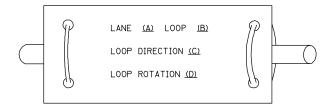
3 4 5 6 7 8 9 10

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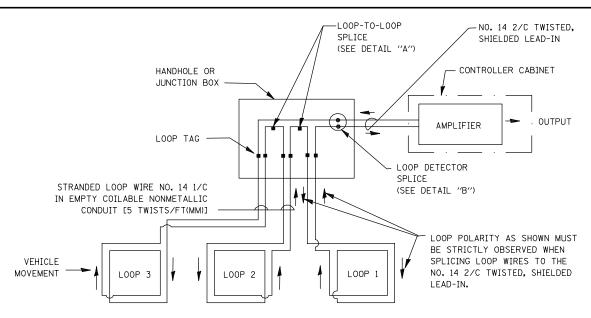
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

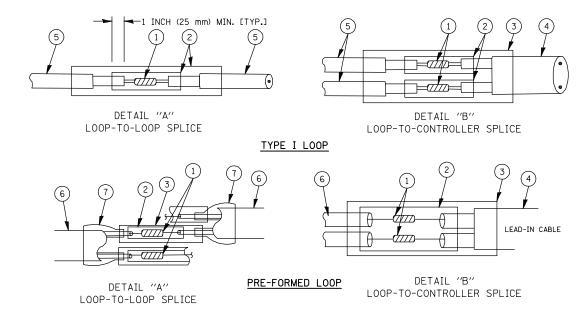


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP \$1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

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



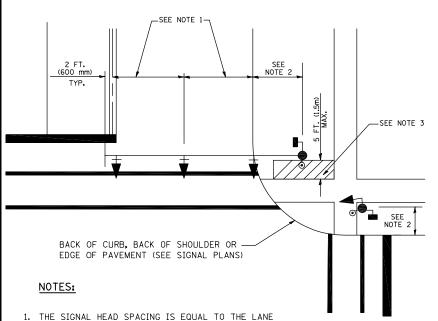
LOOP DETECTOR SPLICE

- (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.
- (6) PRE-FORMED LOOP
- The polyolefin 2 conductor breakout seals. Tyco cbr-2 or approved equal

				O BINLA	ROOT SEALS. TICO CBN 2 ON ALTHOVED EQUAL		GHA #4085.881
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - DAD	REVISED -		DISTRICT ONE	FAP. SECTION	COUNTY TOTAL SHEET
4085.881 – TR1.dwg		DRAWN - BCK	REVISED -	STATE OF ILLINOIS		VARIES 2011-221-I	KANE/KENDALL 43 5
	PLOT SCALE = 1" = .0833"	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	TS-05	CONTRACT #: 60R81
	PLOT DATE = 2/3/2012	DATE - 10-28-09	REVISED -		SCALE: NONE SHEET NO. 1 OF 6 SHEETS STA. TO STA.	ILLINOIS FED. A	AID PROJECT

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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

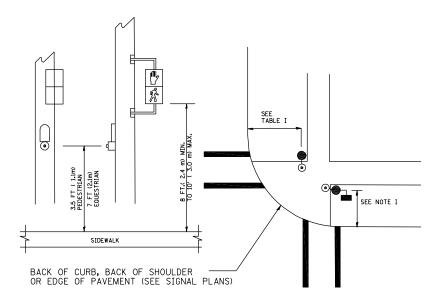


WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.

2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.

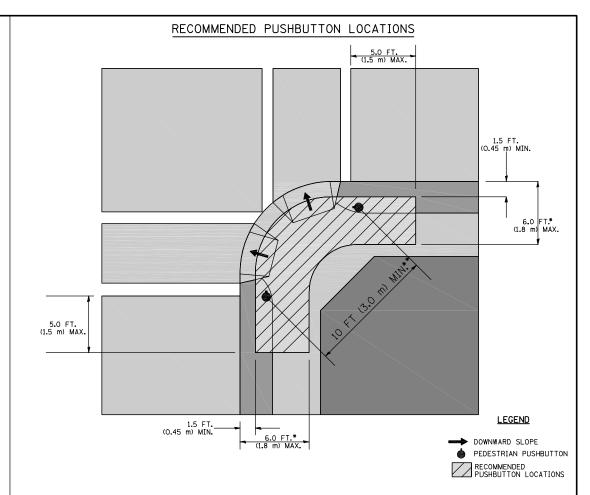
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 5. THE LOCATIONS AND INSTALLATION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

PEDESTRIAN SIGNAL POST PEDESTRIAN PUSH BUTTON POST



NOTES:

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



- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT. IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.

THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.

THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.

THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.

THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

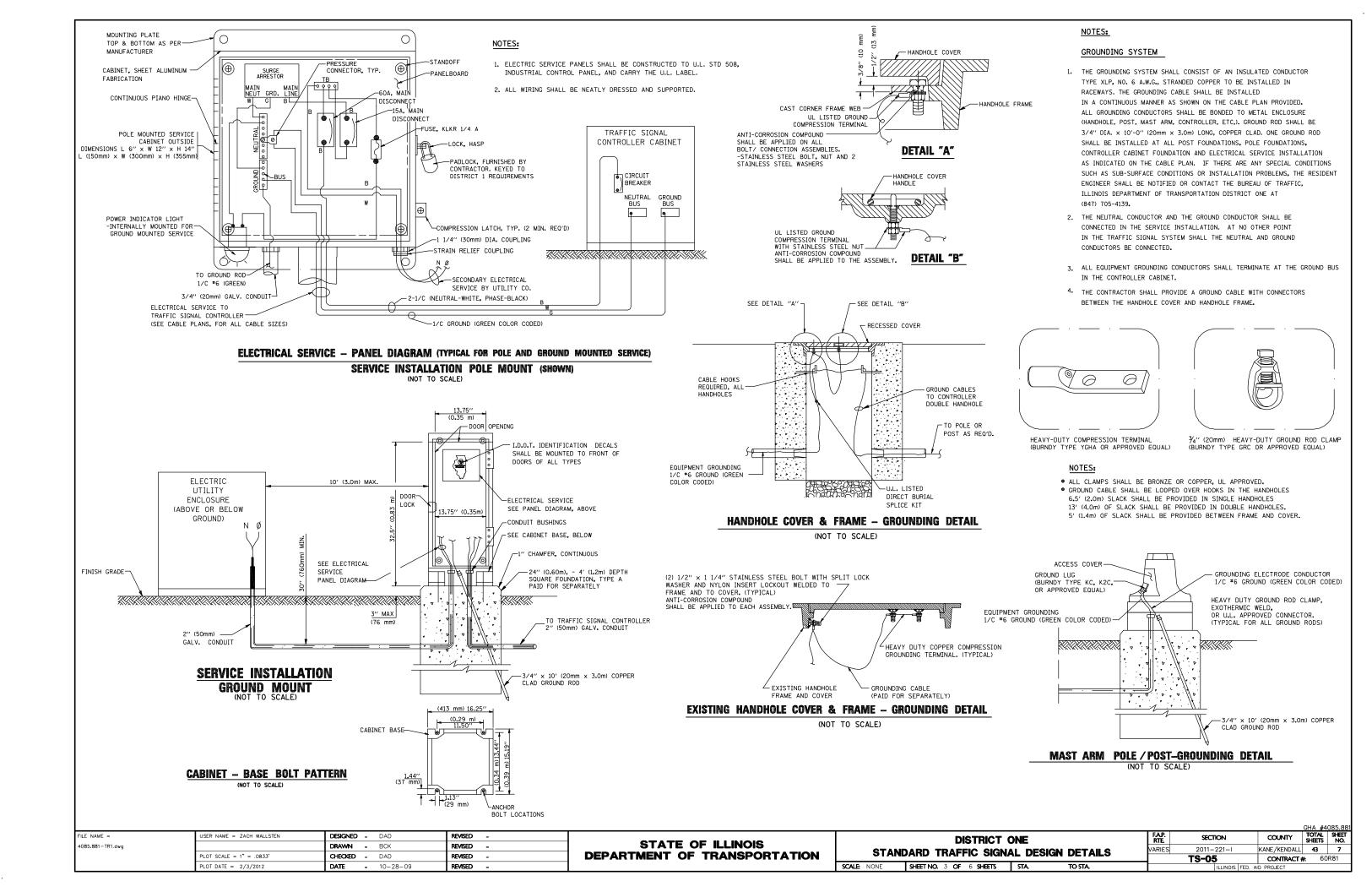
TRAFFIC SIGNAL EQUIPMENT OFFSET

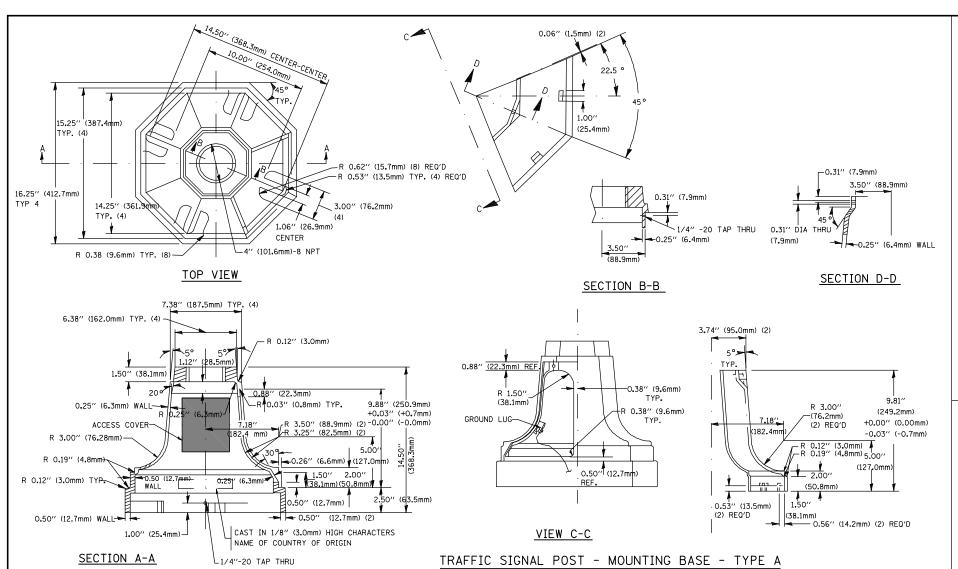
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

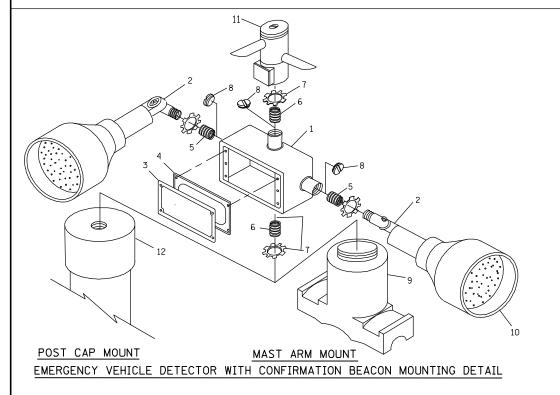
NOTES:

- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
- 4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - DAD	REVISED -			DISTRICT	NE		FAP.	SECTION	COUNTY	TOTAL SHEETS	SHEET
4085.881 – TR1.dwg		DRAWN - BCK	REVISED -	STATE OF ILLINOIS	0744			ON DETAIL O	VARIES	2011-221-1	KANE/KENDALL		6
	PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANL	DARD TRAFFIC SIGNA	AL DESI	GN DETAILS	***************************************	TS-05	CONTRACT #		<u>3</u> 1
	PLOT DATE = 2/3/2012	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 2 OF 6 SHEETS	STA.	TO STA.	1	ILLINOIS FED. A	D PROJECT		$\overline{}$







DESIGNED - DAD

DRAWN - BCK

DATE

- 10-28-09

REVISED -

REVISED

REVISED

REVISED

JSER NAME = ZACH WALLSTEN

FILE NAME =

4085.881 – TR1.dwg

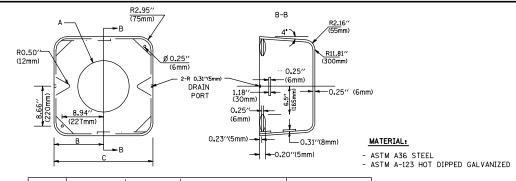
ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV, 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4"(19 mm) CLOSE NIPPLE
7	¾′′(19 mm) LOCKNUT
8	¾′′(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS *2 AND *11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
 ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
 ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A ¾"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

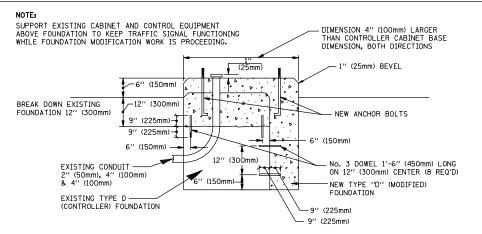


Α	В	С	HEIGHT	WEIGHT
VARIES	9.5′′(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26''(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs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

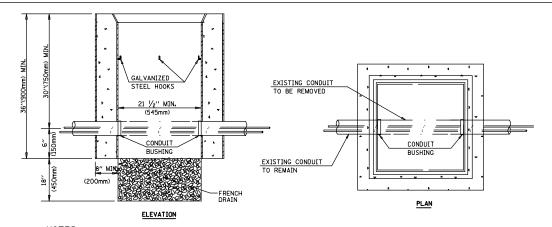
SHROUD

NOTES:

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





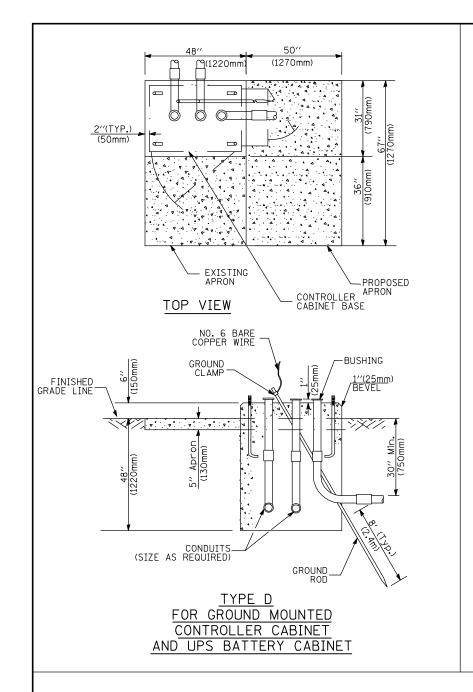


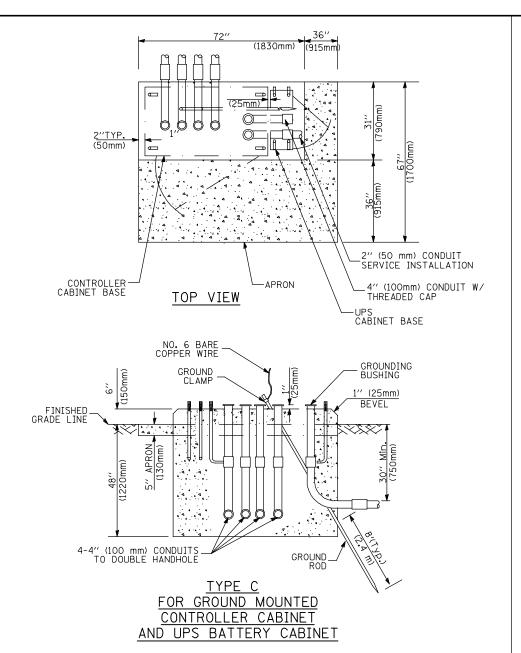
NOTES:

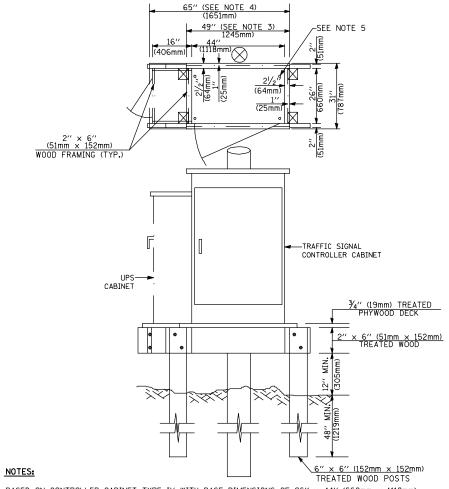
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

							GHA #4	085.881	
		DISTRICT (DNE	FAP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	STAND	ARD TRAFFIC SIGNA	I DESIGN DETAILS	VARIES	2011-221-1	KANE/KENDALL	43	8	
	OIAINE	TAND INALLIG SIGHT	L DEGIGIT DETAILS		TS-05	CONTRACT #	#: 60	R81	
ALE: N	IONE	SHEET NO. 4 OF 6 SHEETS	STA TO STA		ILLINOIS FED A	IN DROIECT			







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

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

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

CABLE SLACK

PLOT DATE = 2/3/2012

DATE

- 10-28-09

FILE NAME = 4085.881 - TR1.dwg

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

VERTICAL CABLE LENGTH

REVISED

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

SCALE: NONE

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0'' (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0'' (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0'' (6.4 m)	42'' (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25′-0′′ (7.6 m)	42'' (1060mm)	36" (900mm)	16	8(25)

NOTES:

SHEET NO. 5 OF 6 SHEETS STA.

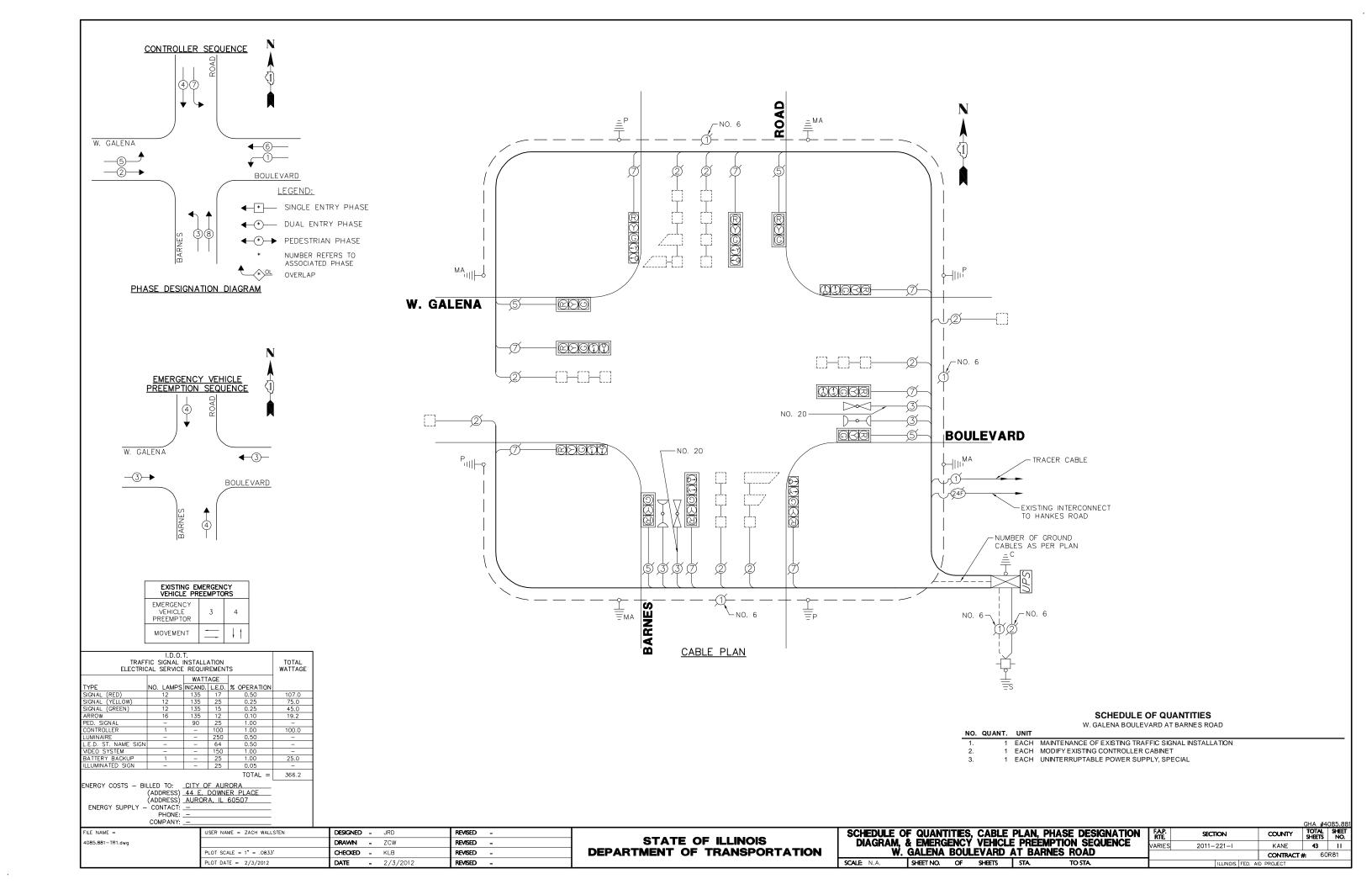
- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along
 the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa).
 This strength shall be verified by boring data prior to construction or with testing by the Engineer
 during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised
 design if other conditions are encountered.
- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm dlameter foundations.
- 4. For mast arm assemblies with dual arms refer to state standard 878001.

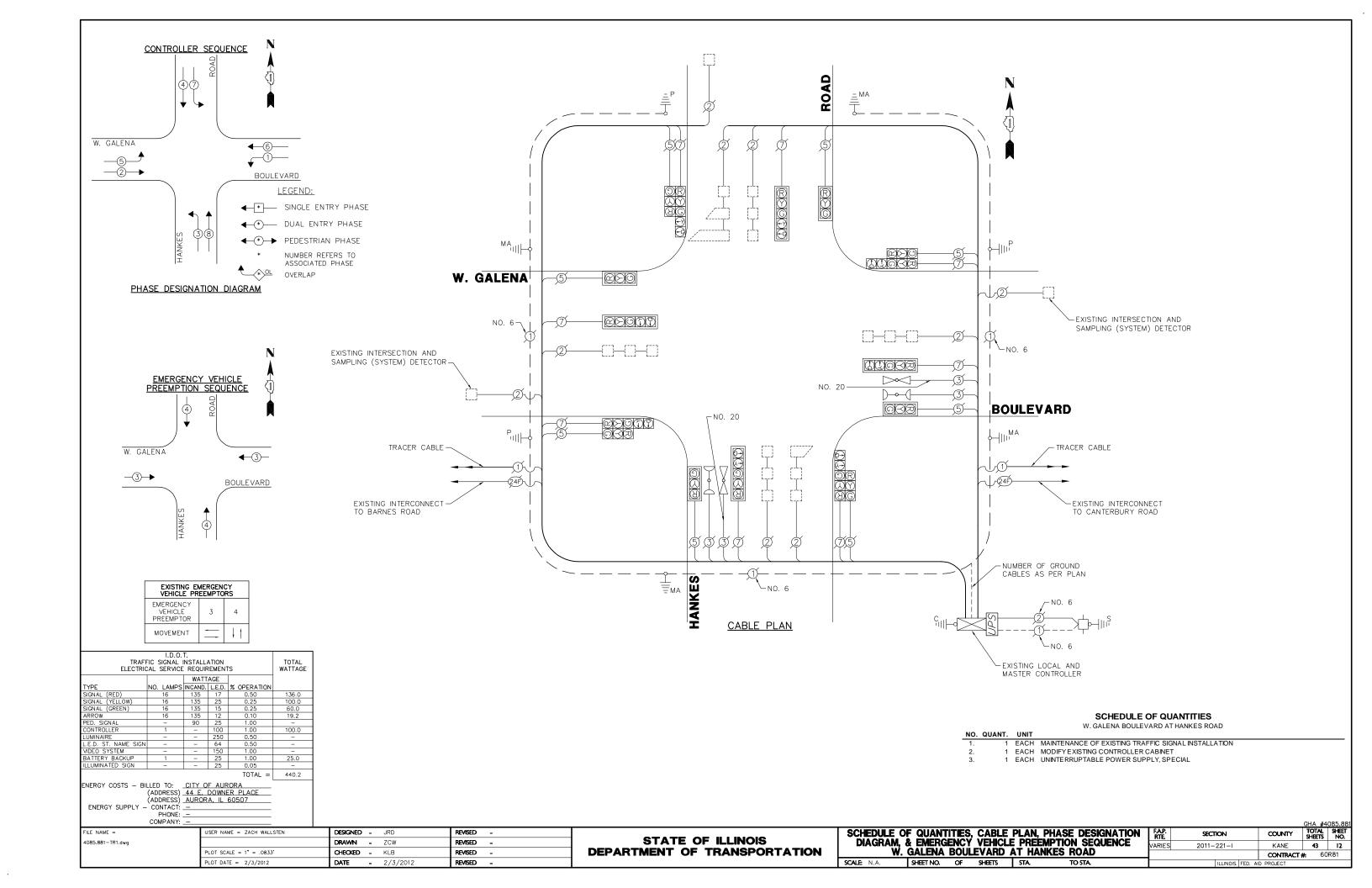
TO STA

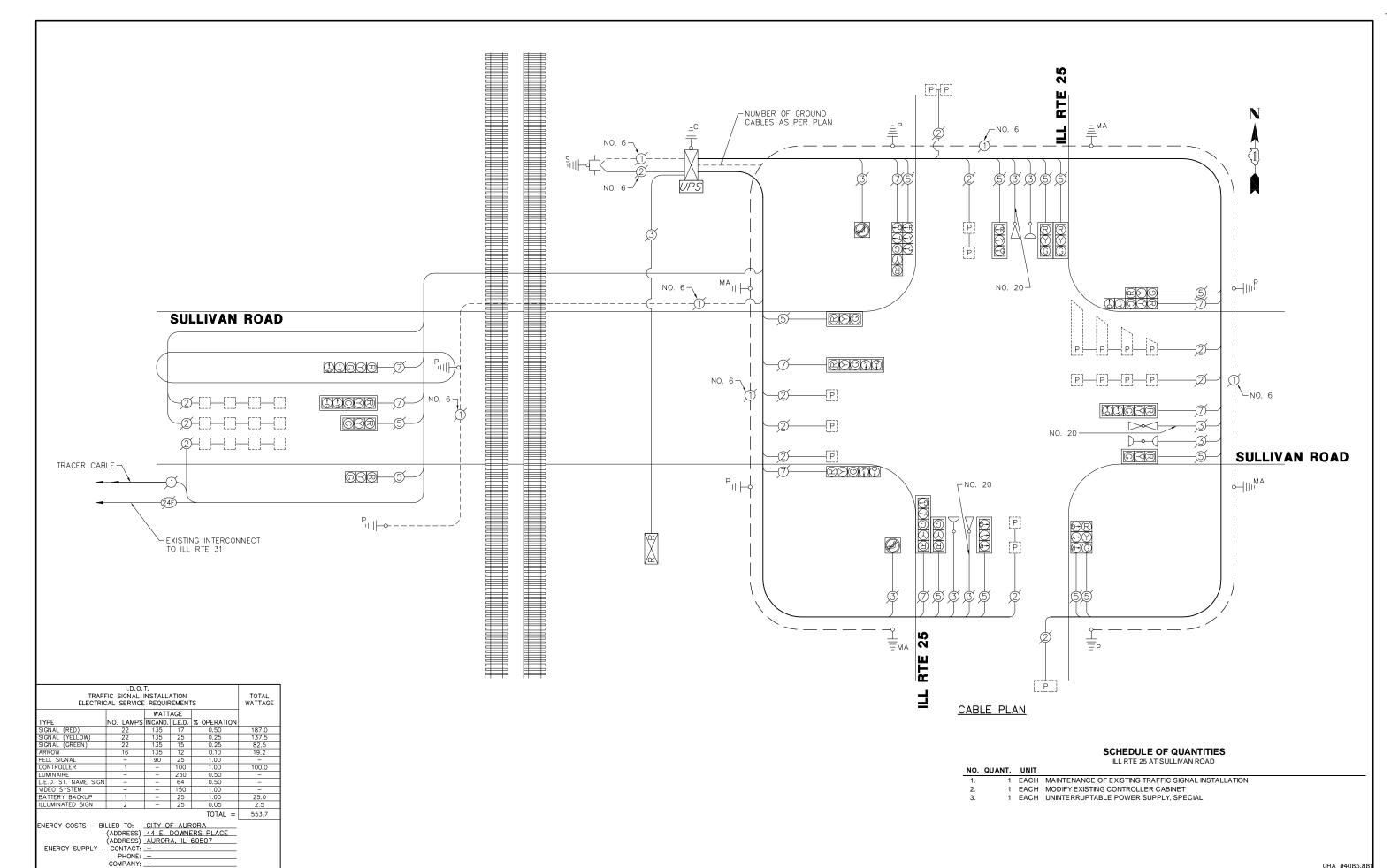
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

										<u> </u>	GHA #408	35.881
	USER NAME = ZACH WALLSTEN	DESIGNED - DAD	REVISED -	OTATE OF HINDIO		DISTRICT (ONE	FAP. RTE.	SECTION		TOTAL SI SHEETS	SHEET NO.
1.dwg		DRAWN - BCK	REVISED -	STATE OF ILLINOIS			L DESIGN DETAILS	VARIES		KANE/KENDALL	43	9
	PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORT	RTATION STAILS	TID ITALIE SIGH	L DESIGN DE L'AILS		TS-05	CONTRACT #	#: 60R8	31

TRAFFIC SIGNAL LEGEND **EXISTING EXISTING** REMOVAL PROPOSED REMOVAL **PROPOSED** REMOVAL **EXISTING PROPOSED** ELECTRIC CABLE IN CONDUIT, TRACER, $\mathbb{R}_{\mathbb{Q}}$ \boxtimes G< __(1)___ CONTROLLER CABINET \boxtimes lacksquareEMERGENCY VEHICLE LIGHT DETECTOR NO. 14 1/C, UNLESS NOTED OTHERWISE R_{\circ} RAILROAD CONTROL CABINET **3 >**∢ CONFIRMATION BEACON ⊶(] - (—(c)— COAXIAL CABLE R □ E C C СС COMMUNICATIONS CABINET СС HANDHOLE MASTER CONTROLLER EMC MC VENDOR CABLE FOR CAMERA Н oxdotHEAVY DUTY HANDHOLE MASTER MASTER CONTROLLER EMMC MMC $^{\mathsf{R}}$ COPPER INTERCONNECT CABLE, UPS EUPS UPS \square UNINTERRUPTIBLE POWER SUPPLY DOUBLE HANDHOLE NO. 18 3 PAIR TWISTED, SHIELDED R 0 O JUNCTION BOX SERVICE INSTALLATION, -D^F -D-F FIBER OPTIC CABLE (P) POLE OR (G) GROUND MOUNT GALVANIZED STEEL CONDUIT NO. 62.5/125, MM12F ____ IN TRENCH (T) OR PUSHED (P) TELEPHONE CONNECTION Ϊ □ P. FIBER OPTIC CABLE (P) POLE OR (G) GROUND MOUNT -24F)-TEMPORARY SPAN WIRE, TETHER WIRE, NO. 62.5/125, MM12F SM12F STEEL MAST ARM ASSEMBLY AND POLE AND CABLE FIBER OPTIC CABLE NO. 62.5/125, ALUMINUM MAST ARM ASSEMBLY AND POLE COMMON TRENCH CT (NUMBER OF FIBERS & TYPE TO BE - ---NOTED ON PLANS) COILABLE NONMETALLIC CONDUIT (EMPTY) CNC STEEL COMBINATION MAST ARM $0 = \infty$ _A—A— ASSEMBLY AND POLE WITH LUMINAIRE GROUND ROD AT (C) CONTROLLER, SYSTEM ITEM (H) HANDHOLE, (P) POST, (M) MAST ARM, STEEL COMBINATION MAST ARM OR (S) SERVICE ΙP INTERSECTION ITEM PTZ PIZ PTZ11 ASSEMBLY AND POLE WITH PTZ CAMERA CONTROLLER CABINET AND REMOVE ITEM SIGNAL POST 0 \times R_O FOUNDATION TO BE REMOVED RELOCATE ITEM TEMPORARY WOOD POLE (CLASS 5 OR \otimes $^{\mathsf{R}}\!\!\otimes\!$ BETTER) 45 FOOT (13.7m) MINIMUM STEEL MAST ARM POLE AND ABANDON ITEM FOUNDATION TO BE REMOVED R GUY WIRE 12" (300mm) TRAFFIC SIGNAL SECTION ALUMINUM MAST ARM POLE AND SIGNAL HEAD \rightarrow FOUNDATION TO BE REMOVED 12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE SIGNAL HEAD CONSTRUCTION STAGES STEEL COMBINATION MAST ARM ASSEMBLY (NUMBERS INDICATE THE CONSTRUCTION STAGE) AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED + \triangleright R SIGNAL HEAD WITH BACKPLATE + + SIGNAL POST AND FOUNDATION G ◆Y ◆G RMF SIGNAL HEAD OPTICALLY PROGRAMMED -->"P" -.∵ ''P'' -**>**"P" SIGNAL FACE TO BE REMOVED FLASHER INSTALLATION O-D′′F′′ **⊕**→"F" O-D''F'' INTERSECTION & SAMPLING (S DENOTES SOLAR POWER) IS IS (SYSTEM) DETECTOR R --0 PEDESTRIAN SIGNAL HEAD S S SAMPLING (SYSTEM) DETECTOR SIGNAL FACE WITH BACKPLATE. PEDESTRIAN PUSHBUTTON DETECTOR 0 EXISTING INTERSECTION LOOP DETECTOR "P" INDICATES PROGRAMMED HEAD Р PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR ® APS (©) APS APS EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR ILLUMINATED SIGN 9 (3) **9** "NO LEFT TURN" (W) (W) 12" (300mm) PEDESTRIAN SIGNAL HEAD PREFORMED INTERSECTION AND SAMPLING WALK/DON'T WALK SYMBOL (SYSTEM) DETECTOR ILLUMINATED SIGN 8 **®** "NO RIGHT TURN" PS PS 12" (300mm) PEDESTRIAN SIGNAL HEAD PREFORMED SAMPLING (SYSTEM) DETECTOR INTERNATIONAL SYMBOL, OUTLINED DETECTOR LOOP, TYPE I 12" (300mm) PEDESTRIAN SIGNAL HEAD **RAILROAD SYMBOLS** P INTERNATIONAL SYMBOL, SOLID PREFORMED DETECTOR LOOP PEDESTRIAN SIGNAL HEAD, INTERNATIONAL MICROWAVE VEHICLE SENSOR M[M]**4** SYMBOL. WITH COUNTDOWN TIMER **EXISTING** PROPOSED $\sqrt{1}$ VIDEO DETECTION CAMERA ∇ RAILROAD CONTROL CABINET ▶⋖ RADIO INTERCONNECT ###0 VIDEO DETECTION ZONE RAILROAD CANTILEVER MAST ARM $X \circ X = X$ Xex x RERR ERR RR RADIO REPEATER $\times \circ \times$ $\mathbf{X} \mathbf{O} \mathbf{X}$ FLASHING SIGNAL PTZ|1 ₽TZ PAN, TILT, ZOOM CAMERA PTZ)1 DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, _5 CROSSING GATE $\times \circ \times \sim$ XOX-R(W)ALL DETECTOR LOOP CABLE TO BE SHIELDED (W) (W)WIRELESS DETECTOR SENSOR CROSSBUCK \geq \rightarrow GROUND CABLE IN CONDUIT WIRELESS ACCESS POINT NO. 6 SOLID COPPER (GREEN) FILE NAME = USER NAME = ZACH WALLSTEN DESIGNED - DAD/BCK REVISED -DISTRICT ONE SECTION COUNTY STATE OF ILLINOIS REVISED -4085.881 – TR1.dwg DRAWN - BCK /ARIES 2011-221-1 KANE/KENDALL 43 10 STANDARD TRAFFIC SIGNAL DESIGN DETAILS **DEPARTMENT OF TRANSPORTATION** CHECKED - DAD REVISED -TS-05 CONTRACT #: 60R81 SHEET NO. 6 OF 6 SHEETS STA. PLOT DATE = 2/3/2012 DATE - 10-28-09 REVISED -







STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

FILE NAME =

4085.881 – TR1.dwg

USER NAME = ZACH WALLSTEN

PLOT DATE = 2/3/2012

DESIGNED - JRD

DRAWN - ZCW

CHECKED - KLB

DATE

- 2/3/2012

REVISED -

REVISED -

REVISED -

REVISED -

COUNTY SHEET NO.

KANE **43 13**

CONTRACT #: 60R81

F.A.P. RTE

SCHEDULE OF QUANTITIES AND CABLE PLAN

ILL RTE 25 AT SULLIVAN ROAD

SHEET NO. OF SHEETS STA.

SECTION

2011-221-1

SEQUENCE OF OPERATIONS

MOVEMENT	Z		•	5	1	>			6	, _	→	•	5	^			(6						7 —		- -	0.	L. 	3	3			—	- 8 - 3			7		# 1	✓ ′ — 1 —	O.L. ↑			4	* * * * * *	← —	8	
PHASE					1+5					1+6			2+5					2+6								34	-7						3	+8					4+7						4+8		! !	L A S H
INTERVAL		1	2A	2B	3A	3B	4A	4B	5	6A	6B	7	8A	8B	9	10A	10B	11A	11B	12A 1	2B	13	14A	14B	14C 1	16	6A 16	В 1	6C 17	7A 17	В 17С	18	19	20A	20B	21	22A	22B 2	2C 23	3A 23	B 2:	3C 23D	24	25A	25B	25C 2	25D	
CHANGE TO			1+	6	2+	- 5	2+	+ 6		2	+6		2-	+6		2+	-5	1+	6	1+5 3+ 3+8 4+ 4+8			•	3+8	4+	7	4+	-8			2+5 2+6		4+8	1+5 2+5			•	4+8		1+5 2+5		1+6 2+6			1+5 2+5	1+6 2+6		
IL RTE 25 FAR LEFT AND END OF MAST ARM SIGNALS	N/B	←G	← Y	← R	←G	← G	← Y	← R	← R	← R	← R	←G	← Y	← R	← R	← R	← R	← R	← R ←	R 4	- R ←	- R -	⊢ R ◀	- R ←	- R ←	R ←	R ←R	← R	← R	← R	← R	← R	← R •	⊢R ←	⊢R ◀	← R ←	R ← I	R ← R	← R	← R	← R	← R						
IL RTE 25 MIDDLE OF MAST ARM, FAR RIGHT & NEAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	Υ	R	Y	R	R	R	R	R R	F	R R	2	R F	R R	R	R	R	R	R	R	R	R	R F	R R	₹ !	R R	R	R	R	R	R	R
IL RTE 25 FAR LEFT & END OF MAST ARM SIGNALS	S/B	←G	←G	←G	← Y	← R	← Y	← R	←G	← Y	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R ←	R 4	-R ←	- R -	⊢ R ◀	- R ←	- R ←	R ←	R ← R	← R	← R	← R	← R	← R	← R •	- R ←	⊢R ◀	+ R +	R ← I	R ← R	← R	← R	← R	← R
IL RTE 25 MIDDLE OF MAST ARM SIGNAL	S/B	R	R	R	R	R	R	R	G	G	G	R	R	R	G	Υ	R	G	G	Υ	R	R	R	R	R R	F	R R	₹ .	R F	R R	R	R	R	R	R	R	R	R	R F	R R	١ ١	R R	R	R	R	R	R	R
IL RTE 25 FAR RIGHT & NEAR RIGHT SIGNALS	S/B	R	R	R	R	R	R	R	G	G	G	R	R	R	G	Υ	R	G	G	Υ	R		R → Y	R	R R →			2	R _R	Y R	R	R	R	R	R	R → G	R → Y	R	R → R	Y R	٠	R R	R	R	R	R	R	R
SULLIVAN ROAD FAR LEFT & END OF MAST ARM SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			R ← G		R R ← G ←				R Y ←		G R ← Y	G ← G	G ← Y	Υ	R	R	R	R	R F	R R	2	R R	G	G	G	Υ	R	R
SULLIVAN ROAD. FAR RIGHT & NEAR RIGHT SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R F	F	₹ R	₹	R F	₹ R	R R	G	G	Υ	R	R	R	R	R F	R R	2	R R	G	G	G	Υ	R	R
SULLIVAN ROAD FAR LEFT & END OF MAST ARM SIGNALS.	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		R ← G	R ← G	R R ←Y ←	G R ←	R G ←	G +	R Y	R G 4	G R ← Y	R	R	R	R	G ◆ G	G ◆ G	G (3 G ⊢ Y ←	G G		Y R	G	G	G	Υ	R	R
SULLIVAN ROAD FAR RIGHT SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R F	F	₹ G	3	R F	R R	R R	R	R	R	R	G	G	G	G (3 G	3	Y R	G	G	G	Υ	R	R
SULLIVAN ROAD (PRE -SIGNALS) END OF OF RR CANTILEVER ARM & NEAR LEFT SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			R ← Y	R	R R ←	R G ←		•	R R ←	Y R	R	R	R	R	R	G ← G	G ← Y	G	G \	Y R	R F	R R	G	Υ	R	R	R	R
SULLIVAN ROAD (PRE -SIGNALS) NEAR RIGHT SIGNAL ON RR CANTILEVER ARM & NEAR RIGHT AIGNAL ON POLE	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R F	. F	₹ G	3	R F	R R	R R	R	R	R	R	G	G	G	G Y	Y R	R I	R R	G	Y	R	R	R	R

FAP. RTE.

VARIES

SECTION

2011-221-I

NOTE: PHASES 2+6 SHALL BE PLACED ON RECALL

	FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	CTATE OF ILLINOIS		SEQU	ENCE	OF OF	PERATIONS	S
	4085.881 – TR1.dwg		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS		UI DIE	OF	AT CH	LIVAN DC	NAD
		PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION		ILL KIE	25 /	AI SUL	LIVAN RO	JAU
L		PLOT DATE = 2/3/2012	DATE - 2/3/2012	REVISED -		SCALE: N.A.	SHEET NO.	OF	SHEETS	STA.	TO STA

EMERGENCY VEHICLE P	PREE	MPTI	ON S	EQUE	NCE	OF (OPE	RATI	<u>ON</u>																														PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1			1		1	,	5	5		7	7	•	9)	9	9		9		13		1	В	18		2	21			21			:	24		24				CLEAR
MERGENCY VEHICLE PREEMPTION EQUENCE OF OPERATION INTERVAL IUMBER		1A	1B	1C	1D	1E	1F	F 1	G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	18	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF	1GG	1HH	1JJ	1KK	1LL	1MM	2	3	4	NORN SEQUE
HANGE TO EMERGENCY VEHICLE REEMPTION SEQUENCE OF OPERATION TERVAL NUMBER		1B	2	1D	3	1F	4	;	3		2 OR 4	2	1 M	3 OR 4	1P	2	1R	3	1T	4	1V	1W	2, 3 OR 4	1Y	2 OR 3	4	1BB	1CC	1DD	2 OR 3	1FF	1GG	4	1JJ	1KK	1LL	2 OR 3	4				
L RTE 25 FAR LEFT & END OF MAST RM SIGNALS.	N/B	←G	+ G	←Y	← R	+	Y +	-R ◆	⊢R	←R	←R	←G	←Y	← R	←R	←R	←R	←R	← F	←R	←R	←R	←R	←R	←R	←R	←R	←R	← R	₹ ← F	₹ + F	R ←R	←R	←R	←R	← F	₹ ← F	←R	←G	← R	←R	
L RTE 25 MIDDLE OF MAST ARM, FAR	N/B	R	R	R	R	R	R	₹ 1	R	R	R	G	Υ	R	G	G	Υ	R	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	
L RTE 25 FAR LEFT & END OF MAST RM SIGNALS	S/B	←Y	←R	←G	←G	· +	Y +	-R ◆	⊢G	← Y	←R	← R	←R	←R	←R	←R	←R	←R	← R	←R	←R	←R	←R	←R	←R	←R	←R	+ R	← R	₹ ← F	₹ + F	R ←R	←R	←R	+ R	₹ ← F	₹ ← F	←R	←R	←G	← R	
L RTE 25 MIDDLE OF MAST ARM SIGNAL	S/B	R	R	R	R	R	R	٠ (3	Υ	R	R	R	R	Y	R	G	G	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	
L RTE 25 FAR RIGHT AND NEAR RIGHT IGNALS	S/B	R	R	R	R	R	R	٠ (3	Υ	R	R	R	R	Y	R	G	G	Υ	R	R Y→	R	R	R	R	R	R Y→	R	R	R	R Y→	R	R	R	R	R	R	R	R	G	R	Δ
ULLIVAN ROAD FAR LEFT & END OF AST ARM SIGNALS	W/B	R	R	R	R	R	R	۱ ا	R	R	R	R	R	R	R	R	R	R	R	R	R ← G	R ← G	R ← Y	Y	R	G ← Y	R	R	R	R	R	R	R	G	G	Y	R	G	R	R	G	
ULLIVAN ROAD FAR RIGHT & NEAR IGHT SIGNALS	W/B	R	R	R	R	R	R	۱ ا	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	G	R	R	R	R	R	R	R	G	G	Y	R	G	R	R	G	
ULLIVAN ROAD FAR LEFT & END OF AST ARM SIGNALS	E/B	R	R	R	R	R	R	₹ 1	R	R	R	R	R	R	R	R	R	R	R	R	R ← G	R ← G	R ← Y	R	R	R	G ← G	G ← G	Υ	R	G ← G	G ← G	G ← Y	G	G	Υ	R	G	R	R	G	
ULLIVAN ROAD FAR RIGHT SIGNAL	E/B	R	R	R	R	R	R	١ ١	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Υ	R	G	G	G	G	G	Υ	R	G	R	R	G	
ULLIVAN ROAD (PRE-SIGNALS) END OF R CANTILEVER ARM & NEAR LEFT GNALS	E/B	R	R	R	R	R	R	۱ ۱	R	R	R	R	R	R	R	R	R	R	R	R	R ← Y	R	R	R	R	R	Υ	R	R	R	G ← Y	G	G	Υ	R	R	R	G	R	R	G	
ULLIVAN ROAD (PRE-SIGNALS) NEAR IGHT SIGNAL ON R.R CANTILEVER ARM NEAR RIGHT SIGNAL ON POLE	E/B	R	R	R	R	R	R	۱ ۱	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Υ	R	R	R	G	G	G	Υ	R	R	R	G	R	R	G	

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 VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3, OR 4 IS TERMINATED.

RAILROAD PREEMPTIO	N SE	QUEN	ICE C	F OP	ERAT	ION												PREEN NUME		PREEN	MPTOR BER 4		MPTOR BER 5	PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER			1	į	5	7	7	9	•	1	3	1	8	2	1	2	4											
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER																		2	2	3	3	4	4					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	18	1T	1U	1V	1W	1X	2	3	4	5	CLEAR TO
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	2	1D	2	1F	1G	1H	2	1K	2	1M	2	1P	2	1R	2	1T	2	1V	2	1X	2	3	4	5		NORMAL SEQUENCE
ILL RTE 25 FAR LEFT & END OF MAST ARM SIGNALS.	N/B	←Y	← R	← R	+ R	← Y	← R	← R	← R	← R	← R	← R	+ R	← R	← R	← R	← R	← Y	← R	← R	← R	← R	← R	← R	← R	← R	←R	\triangle
ILL RTE 25 MIDDLE OF MAST ARM, FAR RIGHT & NEAR RIGHT SIGNALS	N/B	R	R	R	R	Υ	R	Υ	R	R	R	R	R	R	R	R	R	Υ	R	R	R	R	R	R	R	R	G	\triangle
ILL RTE 25 FAR LEFT & END OF MAST ARM SIGNALS	S/B	←Y	←R	← Y	← R	← R	← R	←R	←R	←R	← R	← R	← R	←R	←R	←R	← R	← R	← R	←Y	← R	←R	← R	← R	← R	←R	←R	Δ
ILL RTE 25 MIDDLE OF MAST ARM SIGNAL	S/B	R	R	Υ	R	R	R	Υ	R	R	R	R	R	R	R	R	R	R	R	Υ	R	R	R	R	R	R	G	Δ
ILL RTE 25 FAR RIGHT & NEAR RIGHT SIGNALS	S/B	R	R	R	R	R	R	Υ	R	R Y →	R	R	R	R Y →	R	R	R	R	R	Υ	R	R	R	R	R	R	G	Δ
SULLIVAN ROAD FAR LEFT & END OF MAST ARM SIGNALS	W/B	R	R	R	R	R	R	R	R	R Y→	R	Υ	R	R	R	Υ	R	R	R	R	R	Υ	R	R	R	R	R	Δ
SULLIVAN ROAD FAR RIGHT & NEAR RIGHT SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	Υ	R	R	R	Υ	R	R	R	R	R	Υ	R	R	R	R	R	Δ
SULLIVAN ROAD FAR LEFT & END OF MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R ← G	R ← G	R	R	G ← G	G ← G	G	G	R	R	R	R	G	G	G ← G	Υ	R	R	Δ
SULLIVAN ROAD FAR RIGHT SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	R	R	R	R	G	G	G	Υ	R	R	Δ
SULLIVAN ROAD (PRE-SIGNALS) END OF R.R CANTILEVER ARM & NEAR LEFT SIGNALS	E/B	R	R	R	R	R	R	R	R	R ← Y	R	R	R	Υ	R	Υ	R	R	R	R	R	Υ	R	R	R	R	R	Δ
SULLIVAN ROAD (PRE-SIGNALS) NEAR RIGHT SIGNAL ON R.R. CANTILEVER ARM AND NEAR RIGHT SIGNAL ON POLE	E/B	R	R	R	R	R	R	R	R	R	R	R	R	Υ	R	Υ	R	R	R	R	R	Υ	R	R	R	R	R	Δ
INTERNALLY ILLUMINATED NO RIGHT TURN SIGNS	S/B	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	\triangle

A 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.

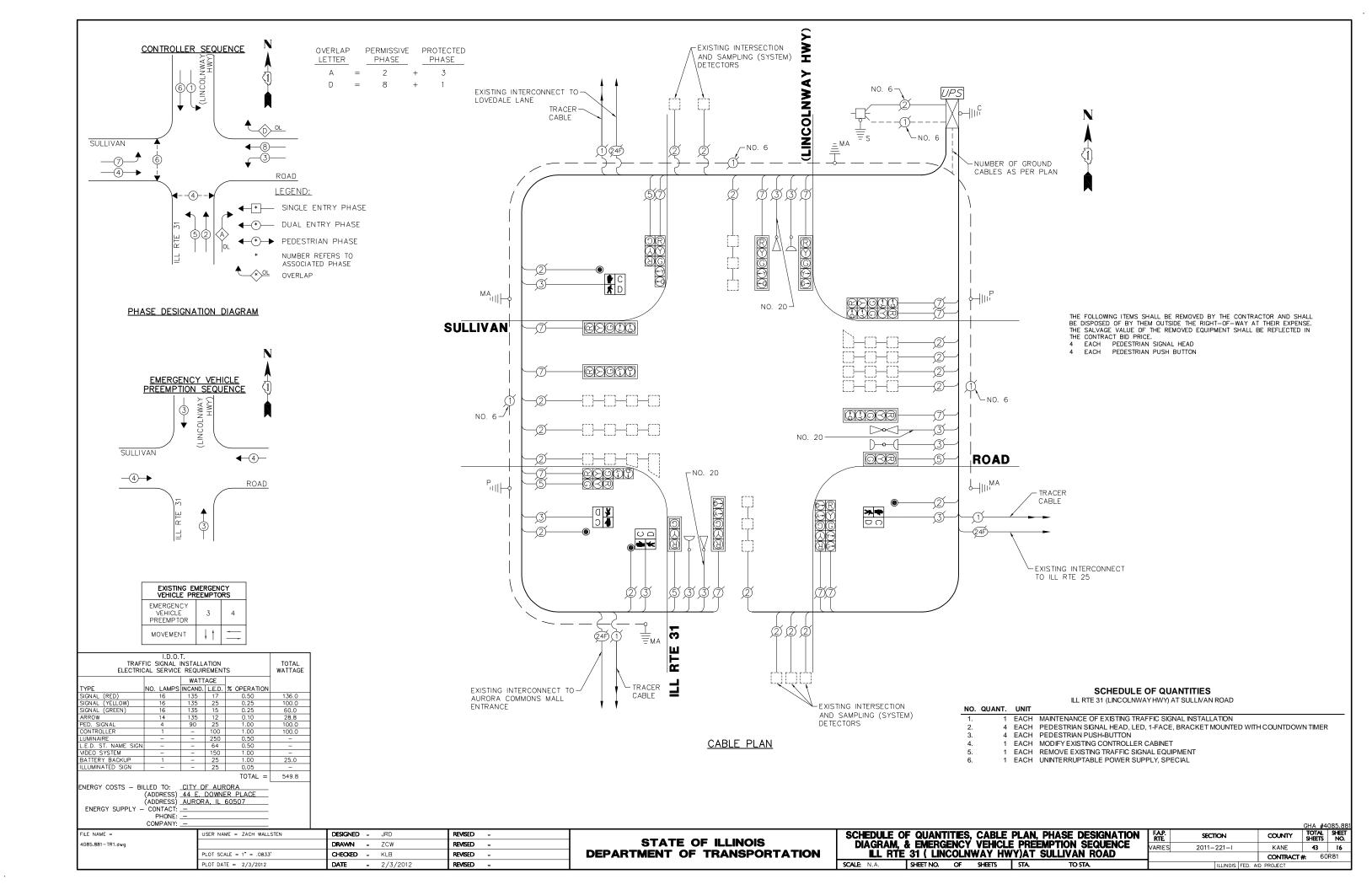
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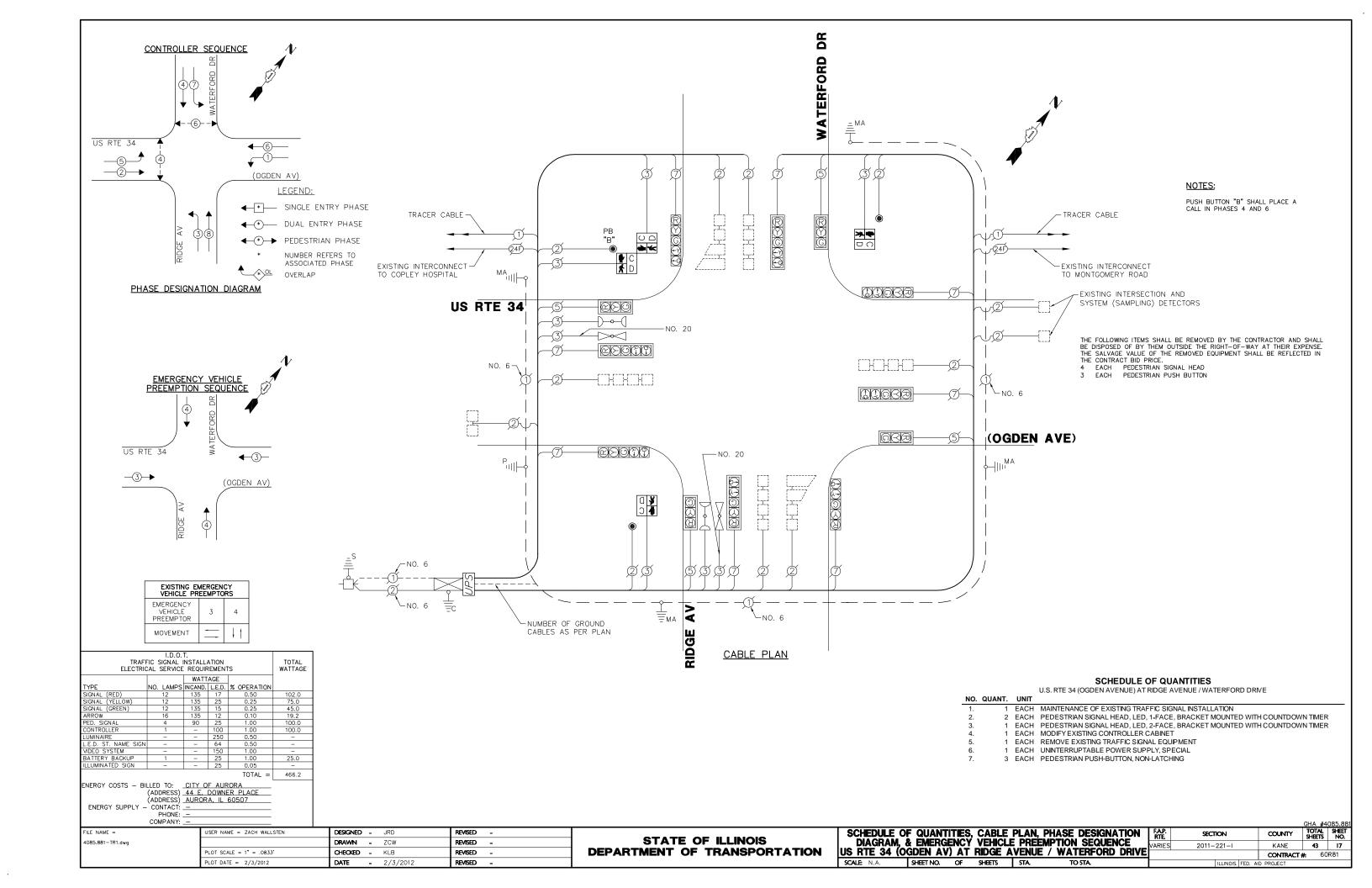
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
4085.881 – TR1.dwg		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 2/3/2012	DATE - 2/3/2012	REVISED -

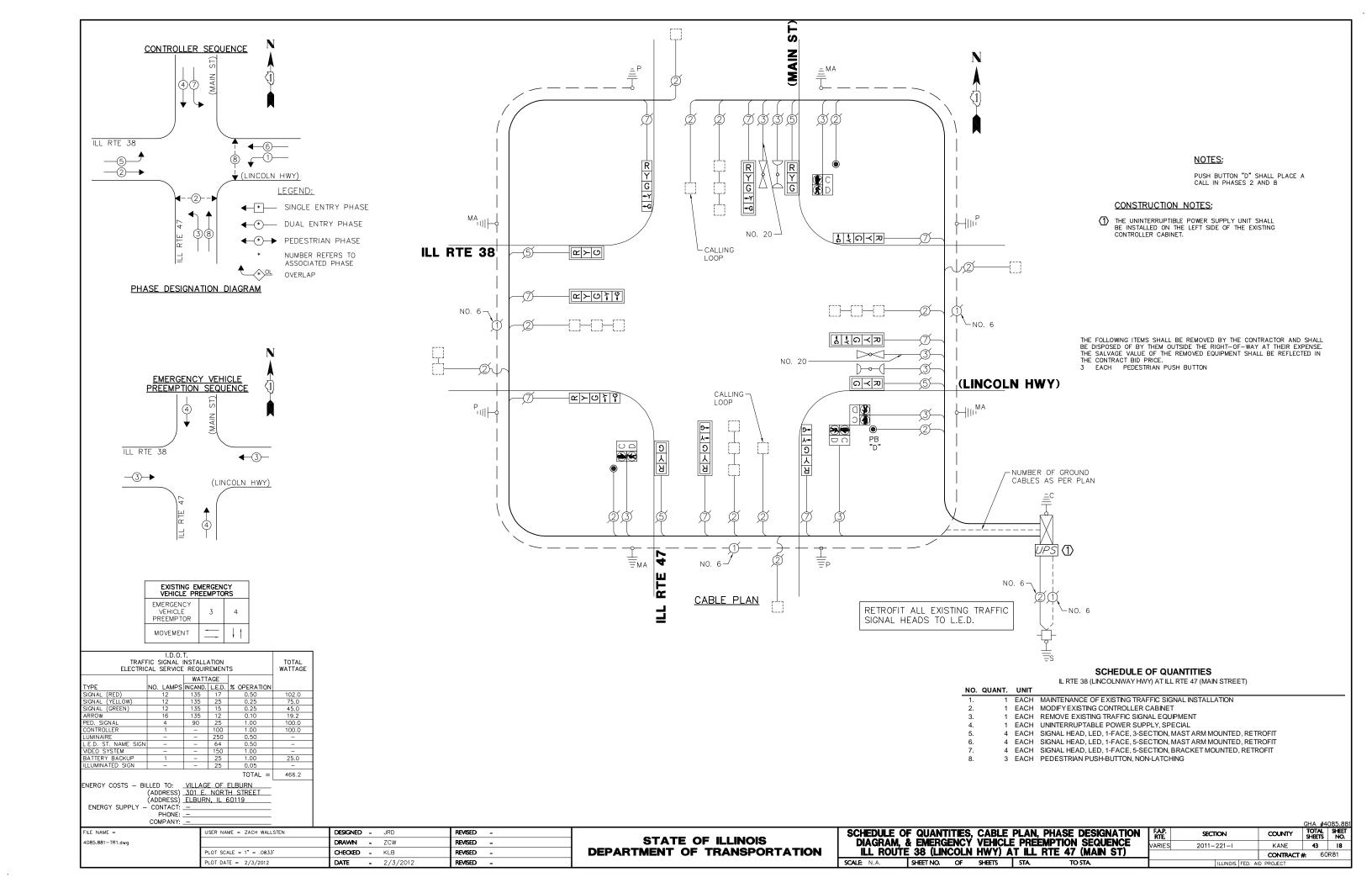
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

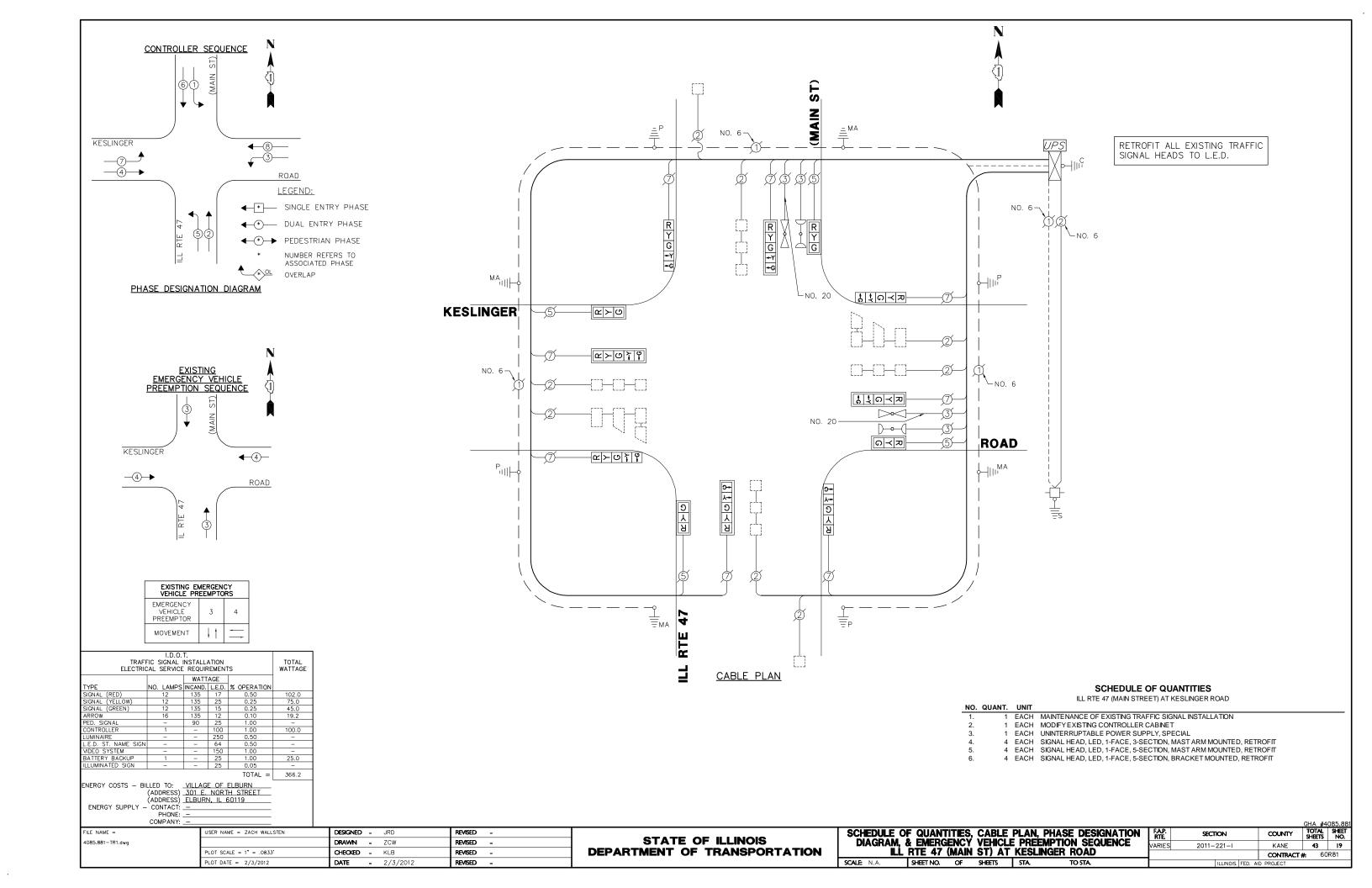
					ENCE OF OPERATION	FAP. RTE
& KAILKO			AT SULI		E OF OPERATION ROAD	VARIES
			,,, ,,,			l.
SCALE: N.A.	SHEET NO.	OF	SHEETS	STA.	TO STA	

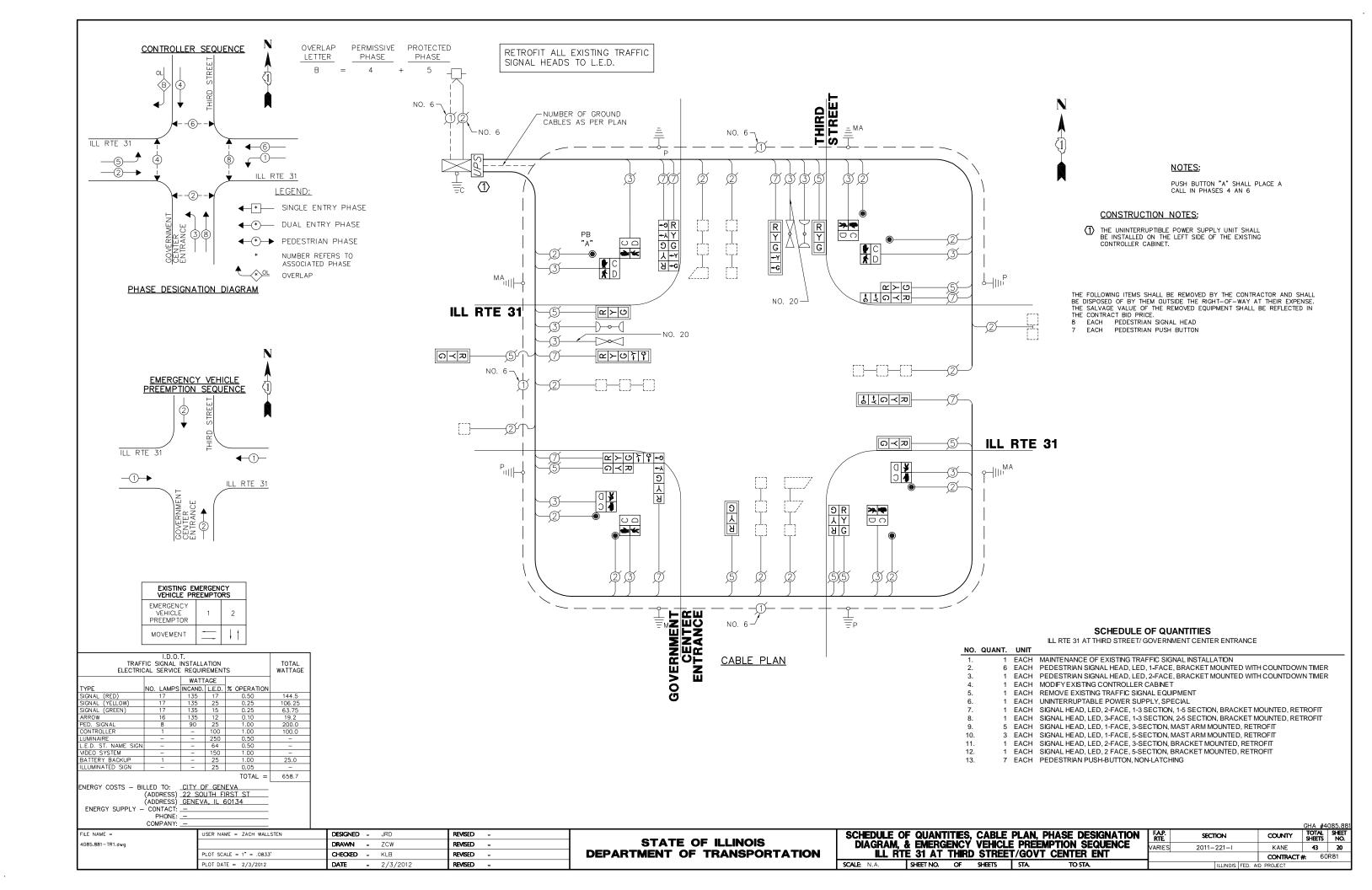
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P. E.	SECT	10N		COUNTY	TOTAL SHEETS	SHEET NO.
ES	2011-	221-I		KANE	43	15
				CONTRACT	#: 60	R81
		ILLINOIS	FED. A	ID PROJECT		

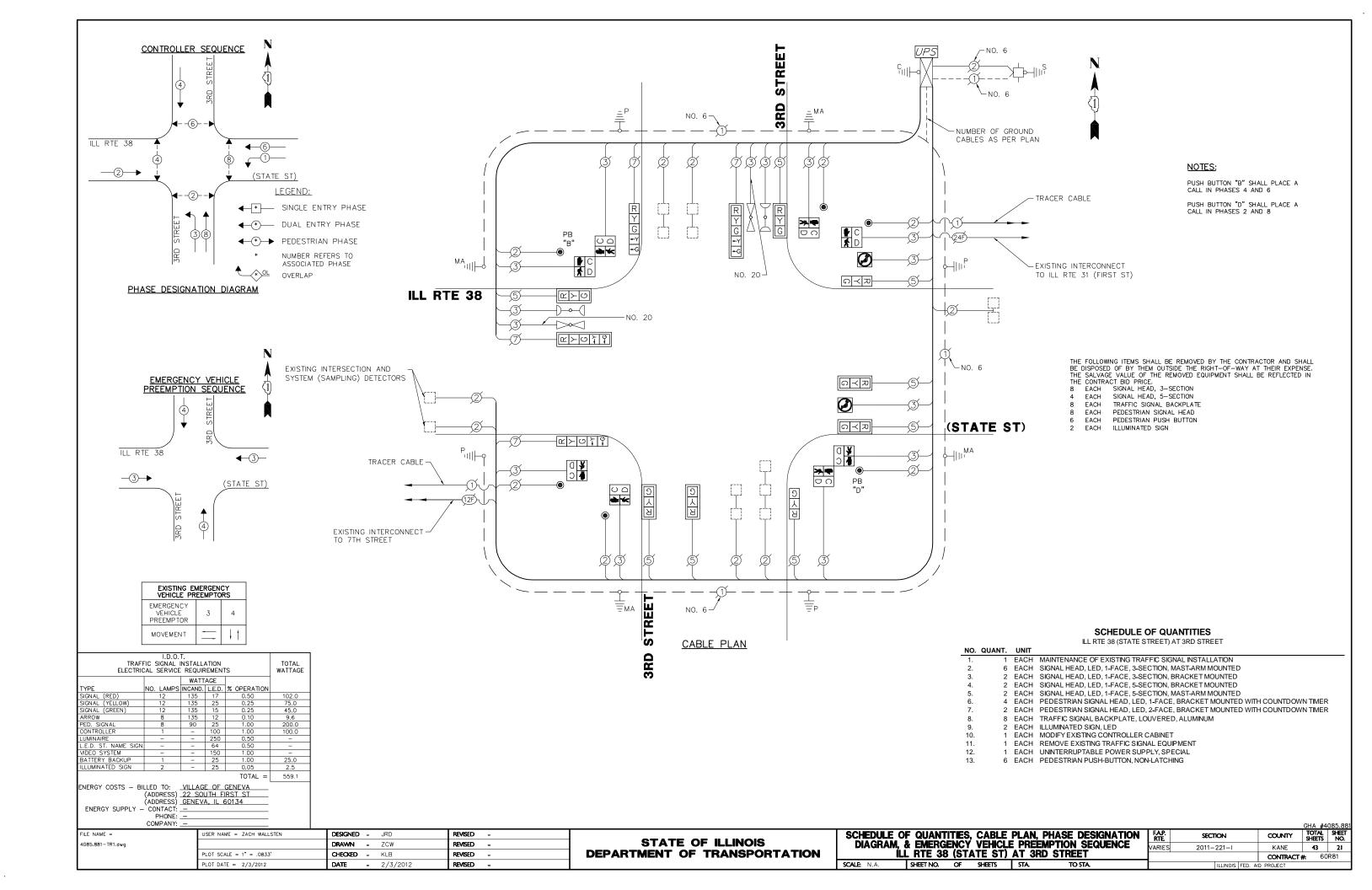


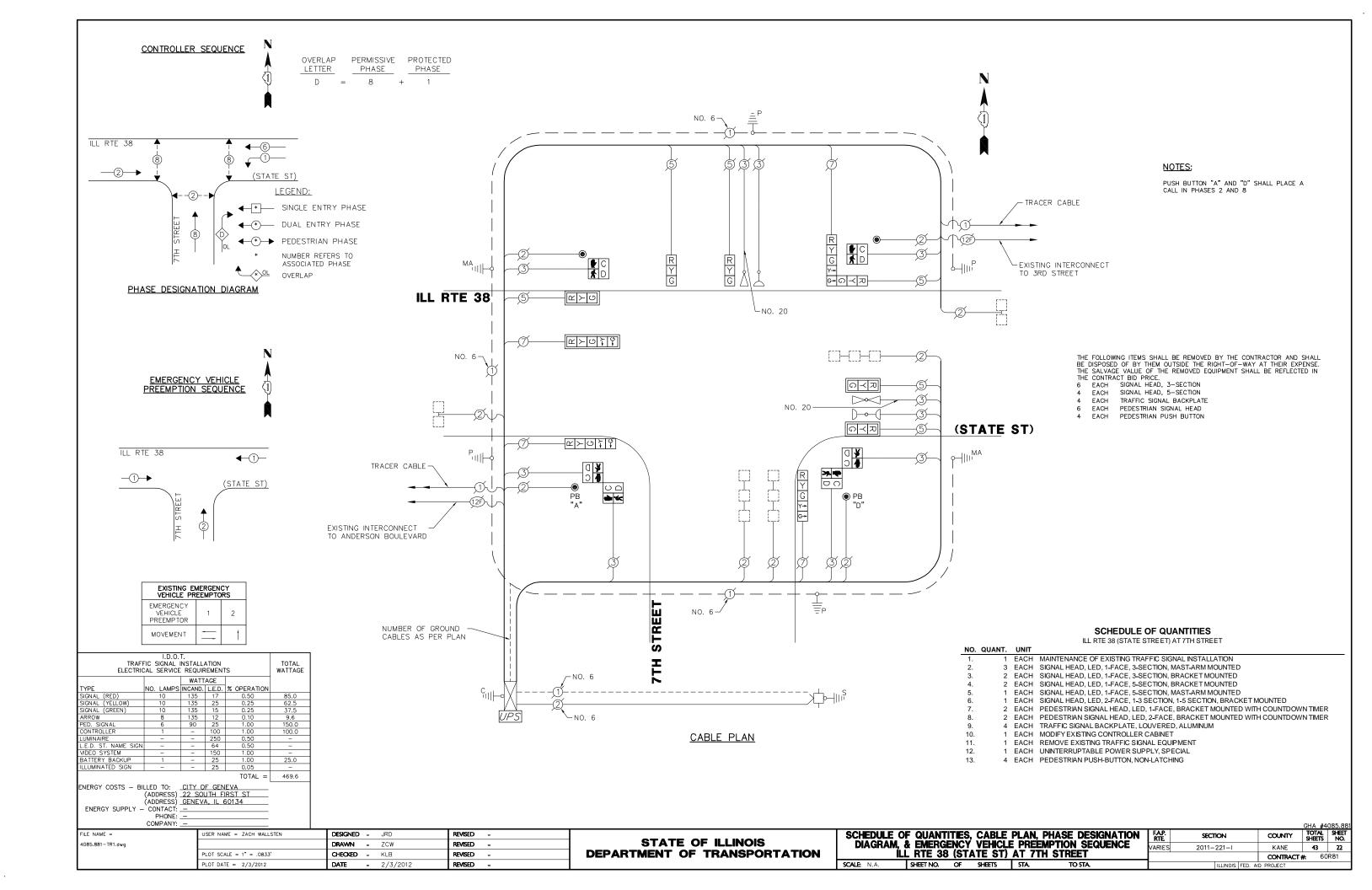


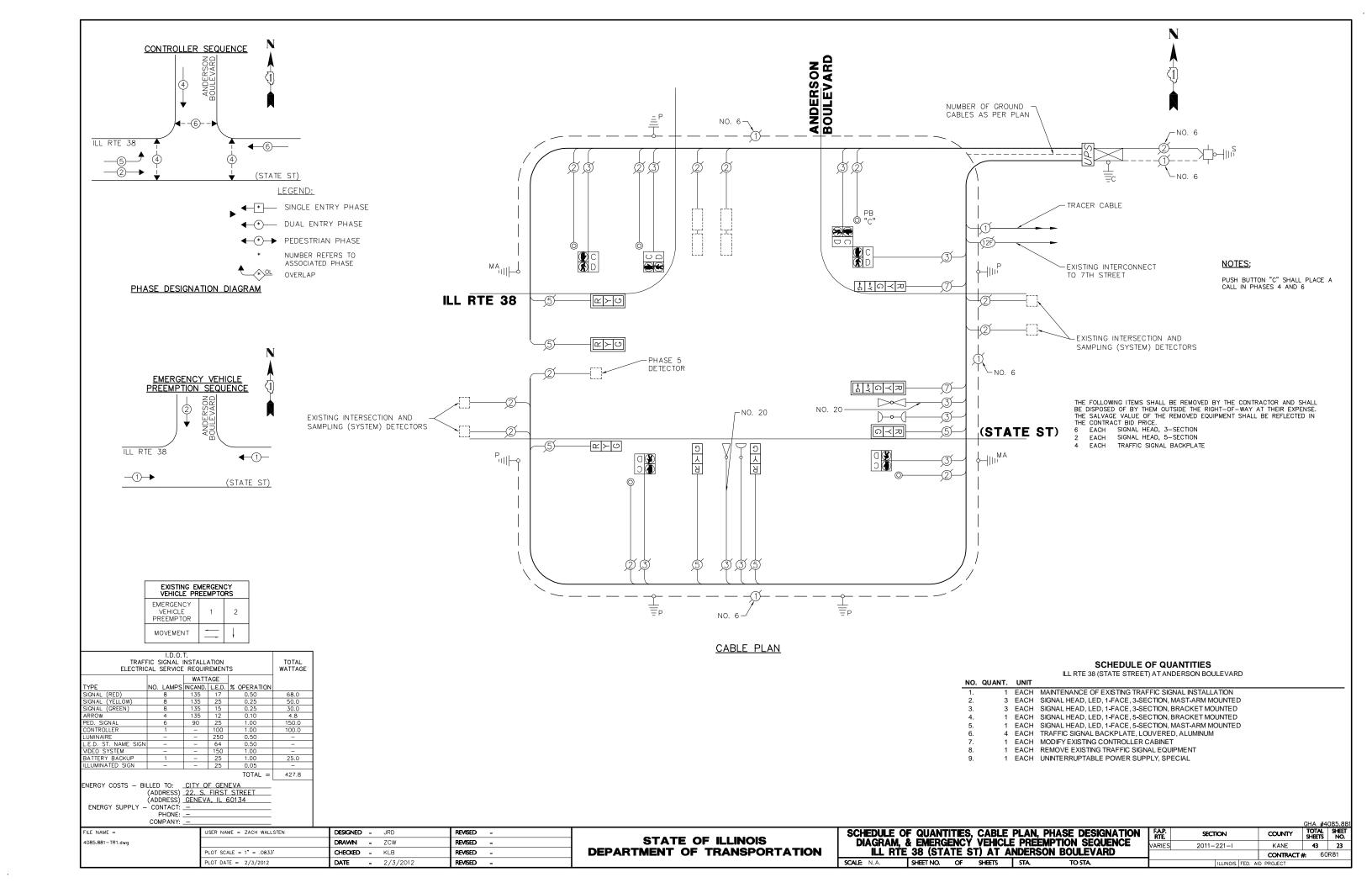


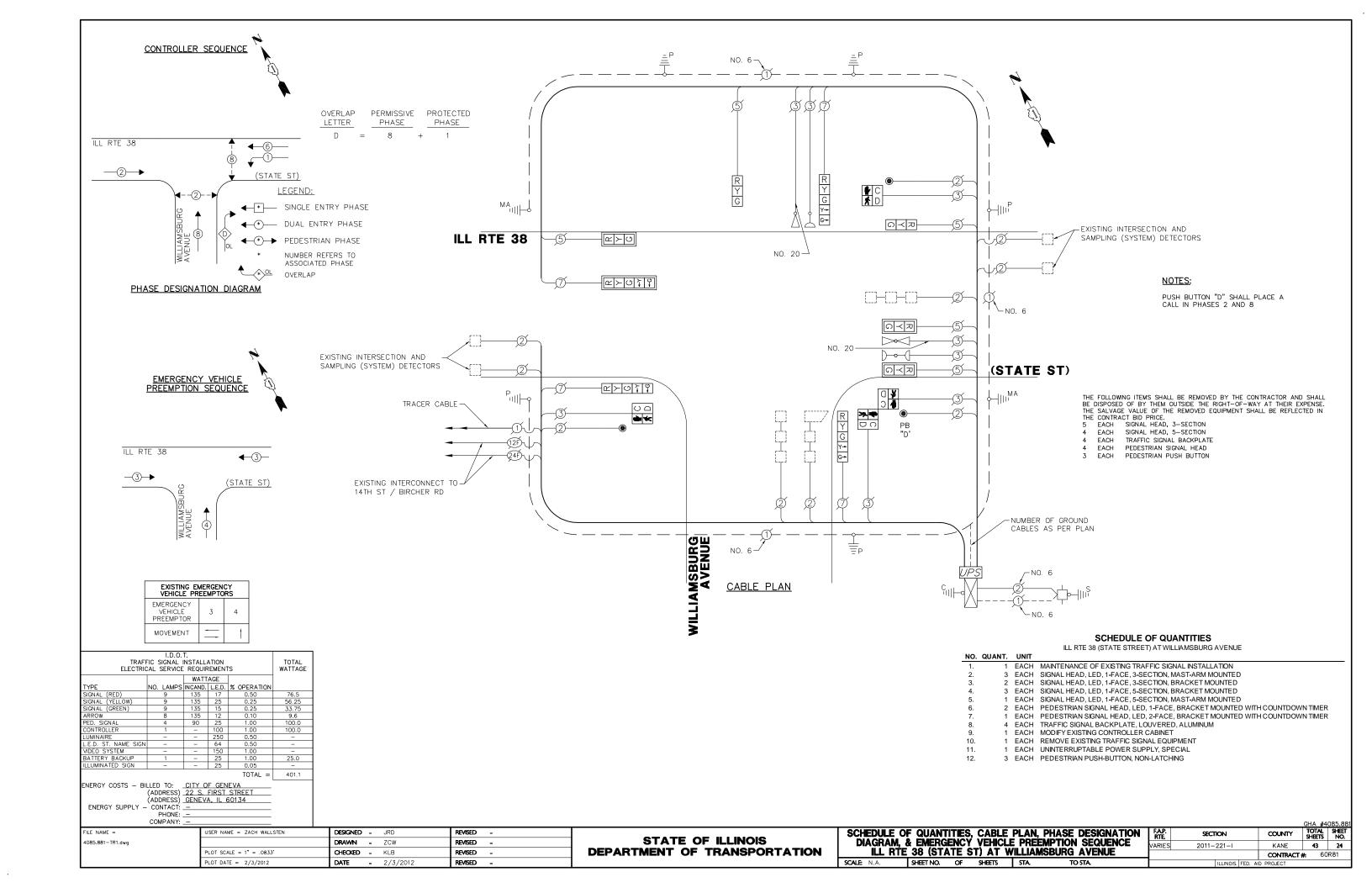


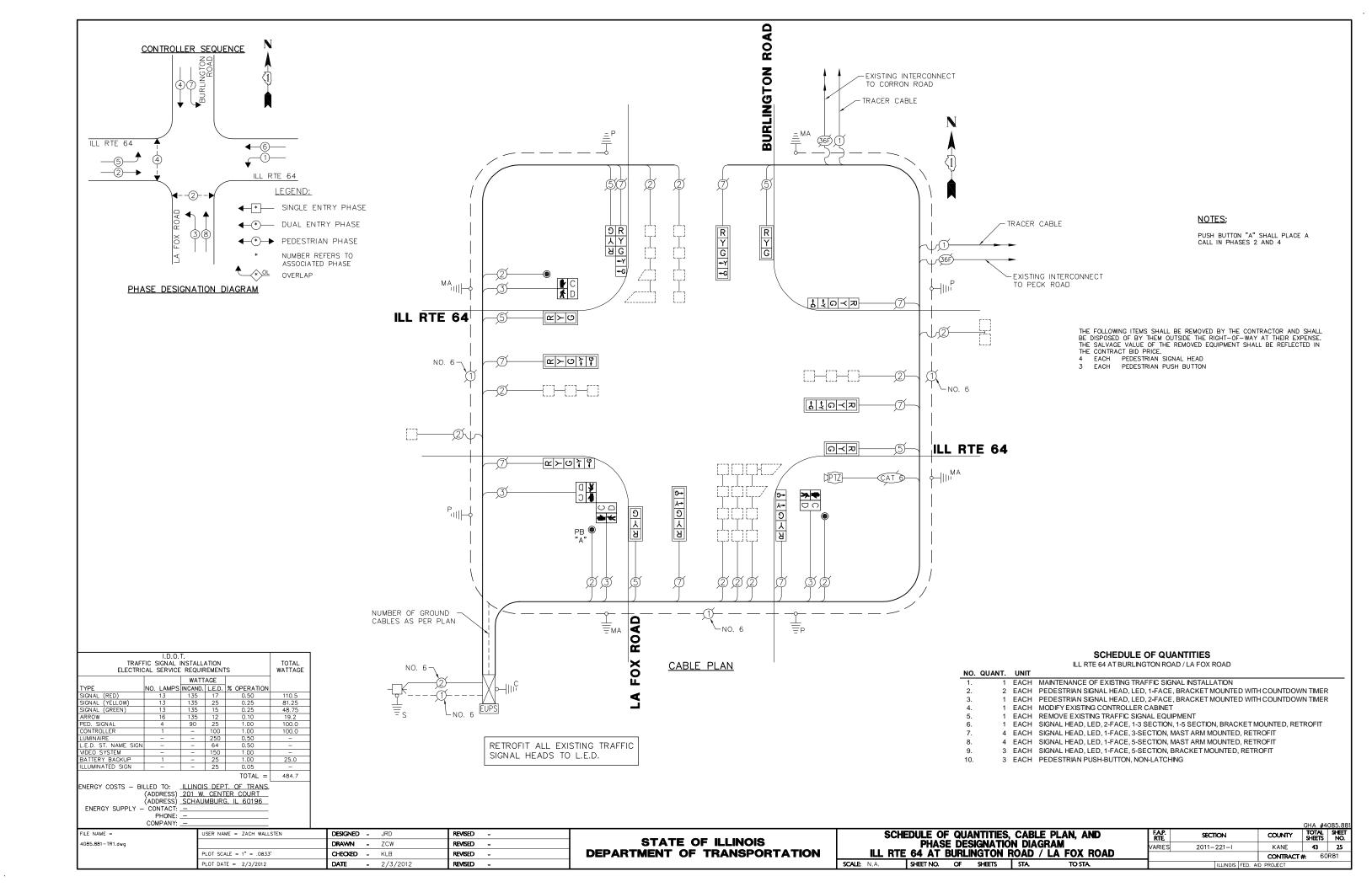


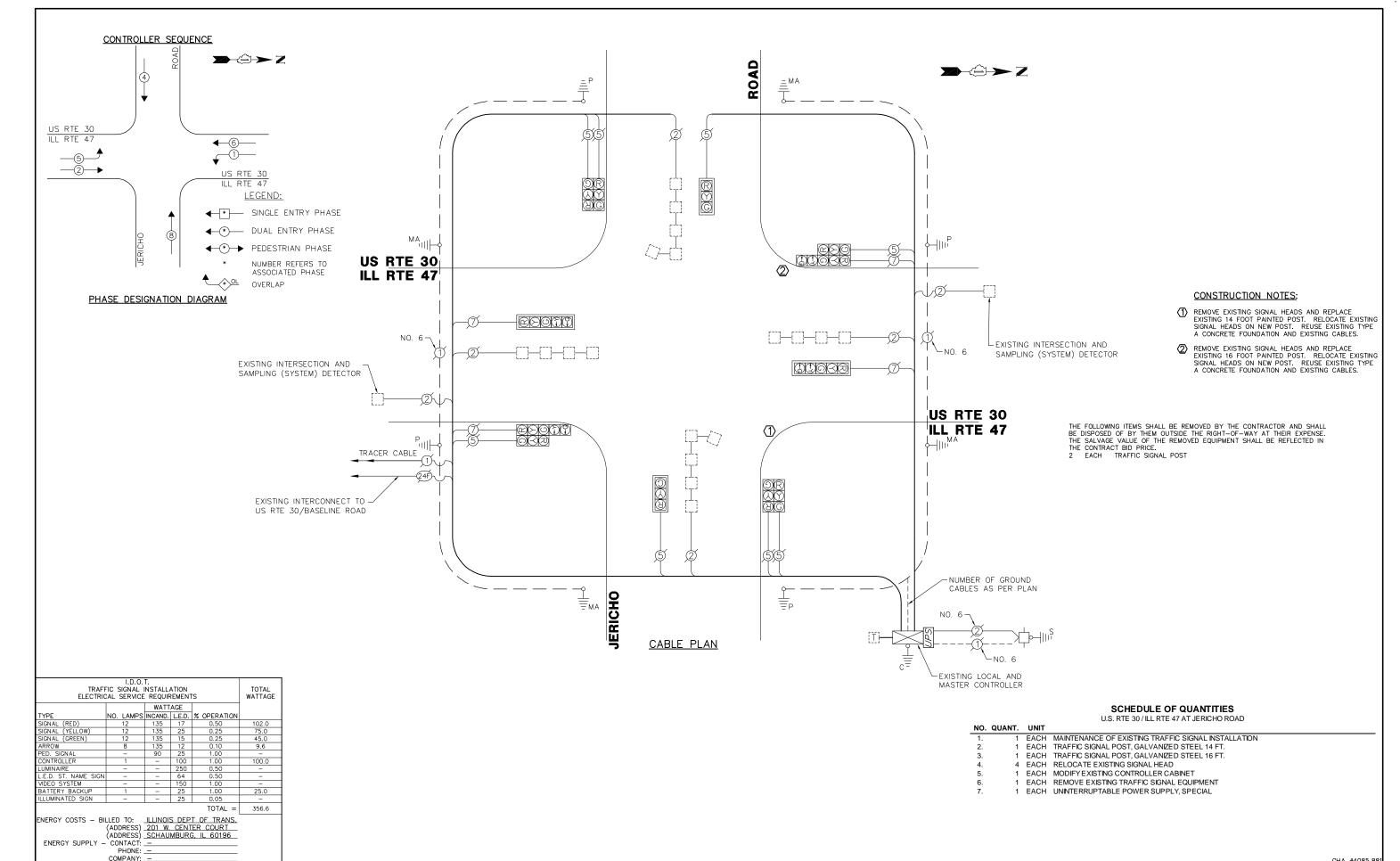












STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

FILE NAME =

4085.881 – TR1.dwg

USER NAME = ZACH WALLSTEN

PLOT DATE = 2/3/2012

DESIGNED - JRD

DRAWN - ZCW

CHECKED - KLB

- 2/3/2012

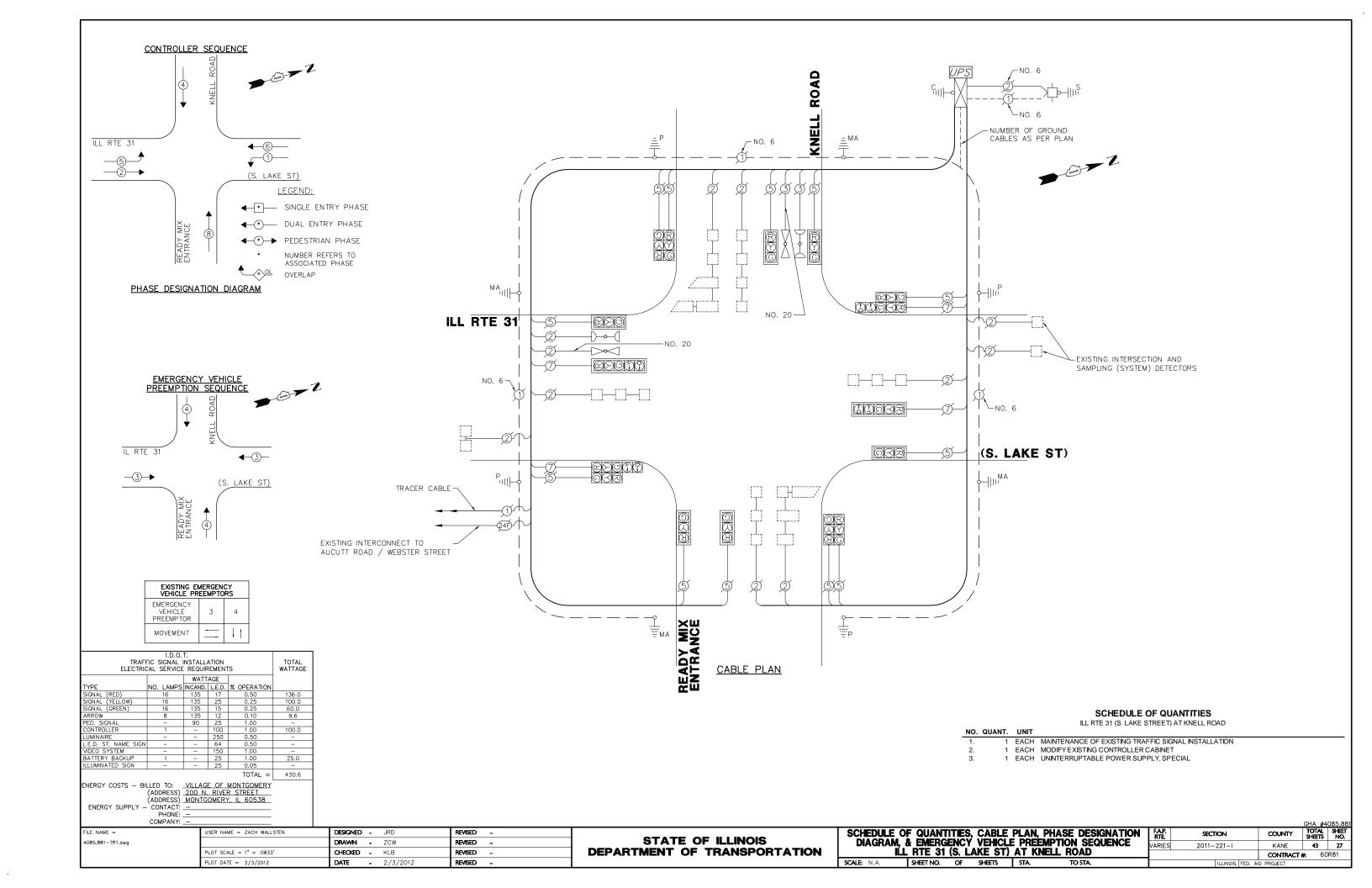
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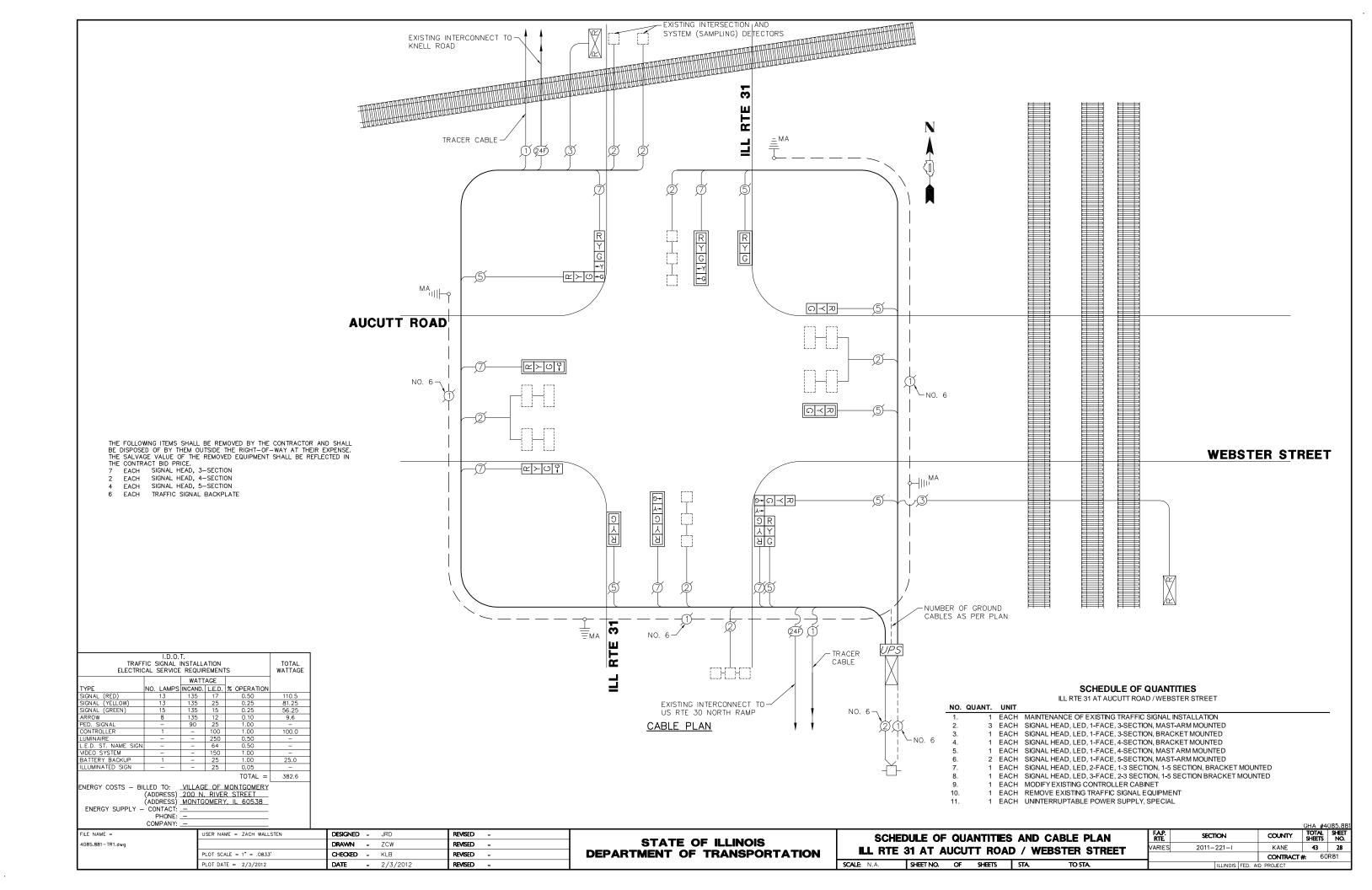
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REVISED





RAILROAD PREEMPTION SEQUENCE OF OPERATIONS

FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1	,	5	7	7	ç	9	1	1				
RAILROAD PREEMPTION INTERVAL		1A	1B	1C	1D	1E	1F	1G	1H	1J	2	3	4	5
CHANGE TO		2	1C	2	1E	2	1G	2	1J	2	3	4	5	
ILL RTE 31 NEAR RIGHT AND MID MAST ARM SIGNALS	S/B	R	Υ	R	R	R	Υ	R	R	R	R	R	R	G
ILL. RTE 31 END MAST ARM AND FAR LEFT SIGNALS	S/B	R ← Y	Υ	R	R	R	Υ	R	R	R	R	R	R	G
ILL. RTE 31 NEAR RIGHT AND MID MAST ARM SIGNALS	N/B	R	R	R	Υ	R	Υ	R	R	R	R	R	R	G
ILL. RTE 31 END MAST ARM AND FAR LEFT SIGNALS	N/B	R ← Y	R	R	Υ	R	Υ	R	R	R	R	R	R	G
WEBSTER STREET ALL SIGNALS	W/B	R	R	R	R	R	R	R	O	O	G G ♦	Υ	R	R
AUCUTT ROAD FAR LEFT SIGNALS	E/B	R	R	R	R	R	R	R	Υ	R	R	R	R	R

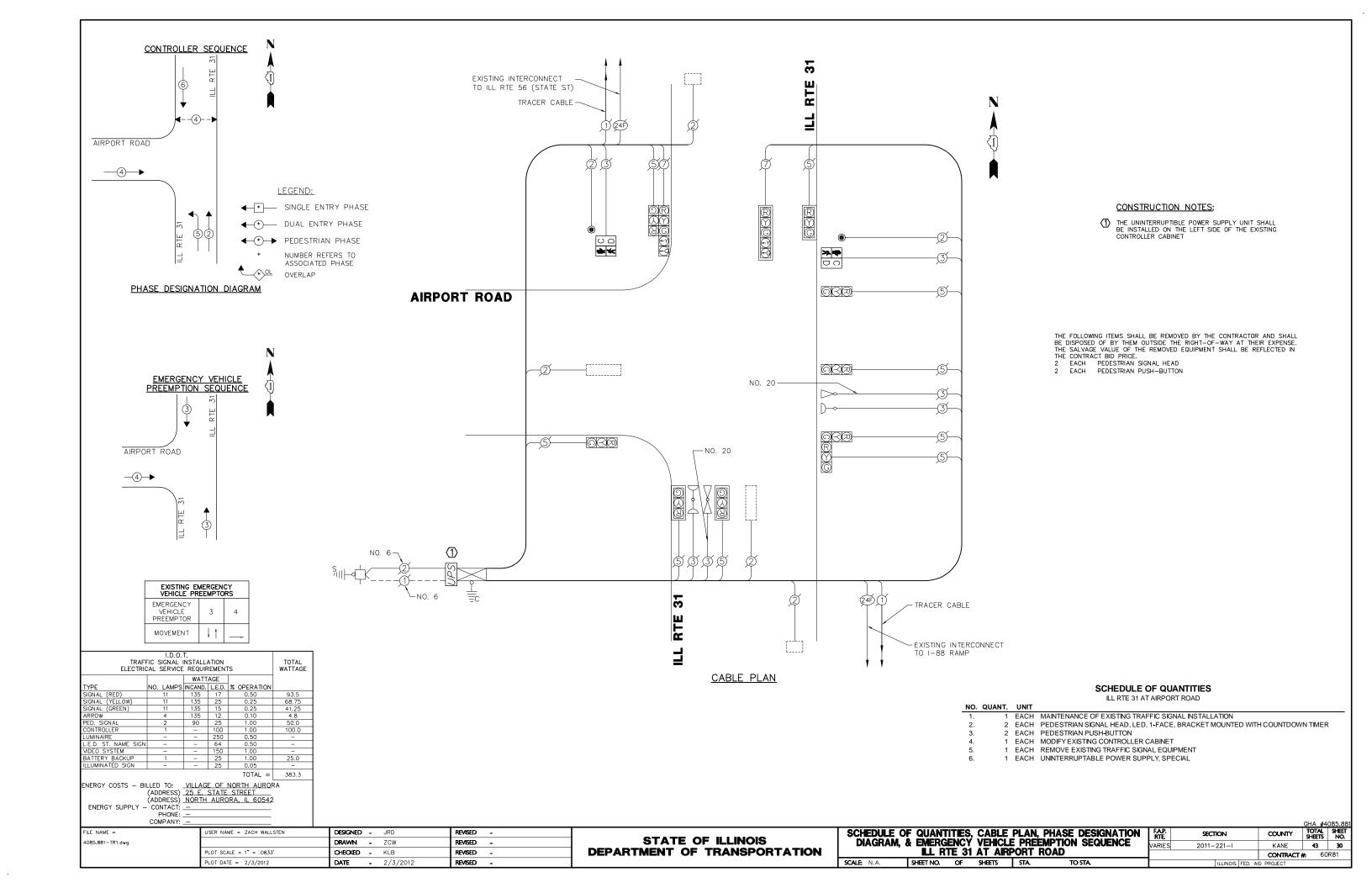
SEQUENCE OF OPERATION

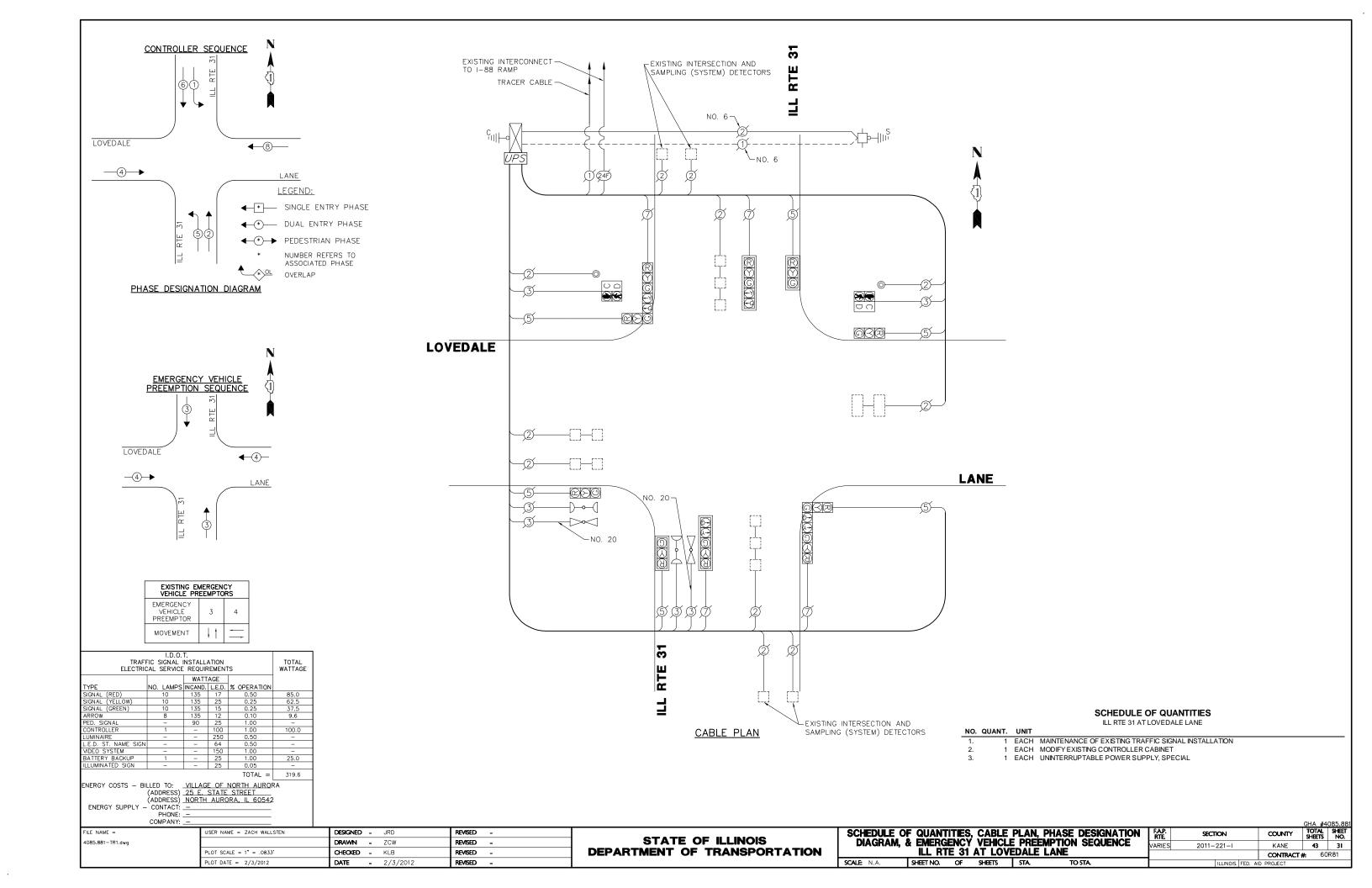
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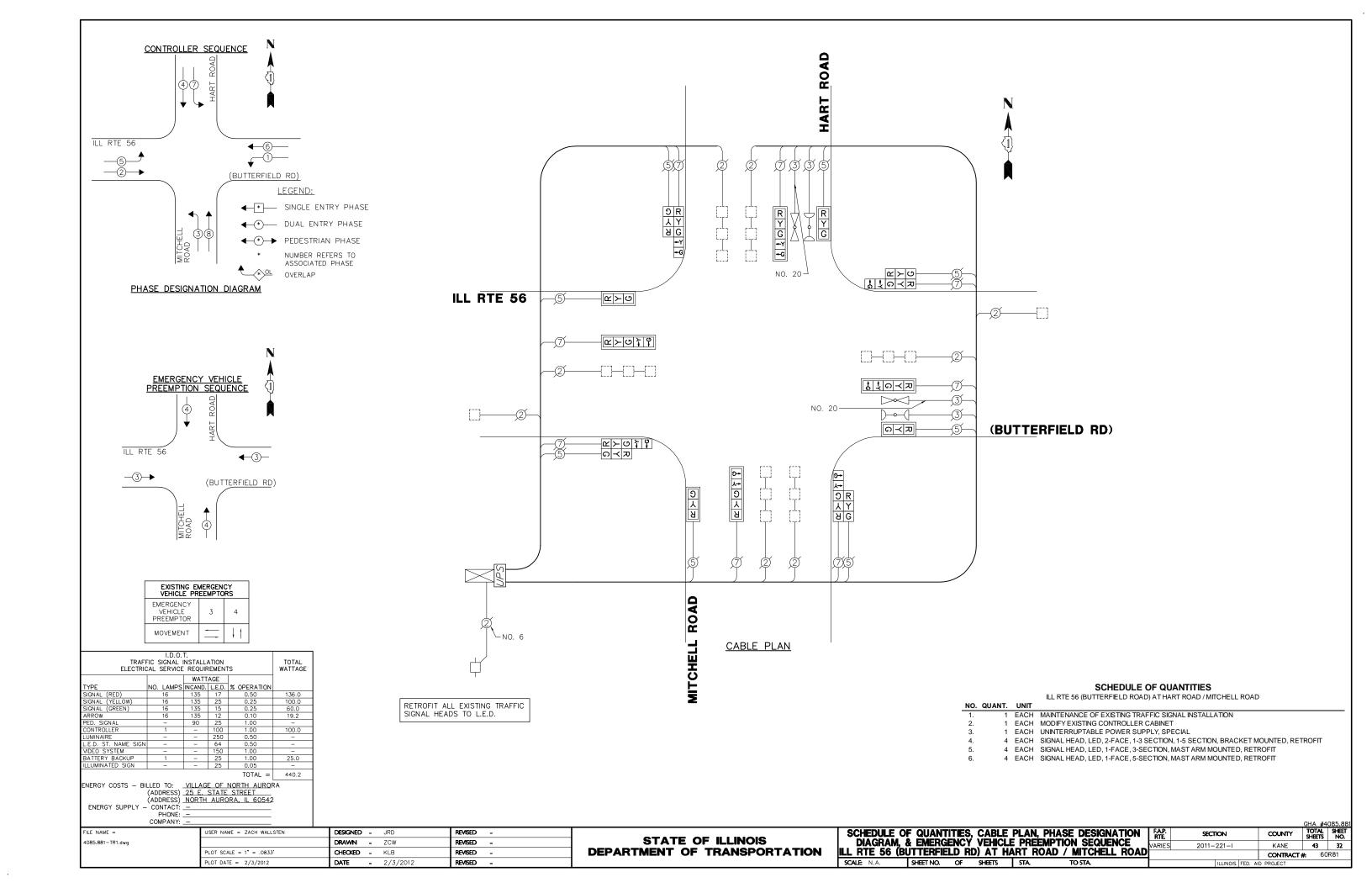
MOVEMENT N		5—— 1 1+5				6		5 — → 2 → 2+5		← 6 2 →			4			F	
PHASE										2+6		4+8			L A		
INTERVAL		1	2	3	4	5	6	7	8	9	10A	10B	11	12A	12B	S	
CHANGE TO			1+6	2+5	2+6		2+6		2+6		4+	-8		1- 2-	+5 +6 +5 +6		
ILL RTE 31 NEAR RIGHT AND MID MAST ARM SIGNALS	S/B	R	R	R	R	G	G	R	R	G	Y	R	R	R	R	R	
ILL RTE 31 END MAST ARM AND FAR LEFT SIGNALS	S/B	R ← G	R ← G	R ← Y	R ← Y	G ← G	G ← Y	R	R	G	Υ	R	R	R	R	R	
ILL RTE 31 NEAR RIGHT AND MID MAST ARM SIGNALS	N/B	R	R	R	R	R	R	G	G	G	Υ	R	R	R	R	R	
ILL RTE 31 END MAST ARM AND FAR LEFT SIGNALS	N/B	R ← G	R + Y	R ← G	R ← Y	R	R	G ← G	G ← Y	G	Y	R	R	R	R	R	
WEBSTER STEET ALL SIGNALS W/B		R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	R	
AUCUTT ROAD ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	R	

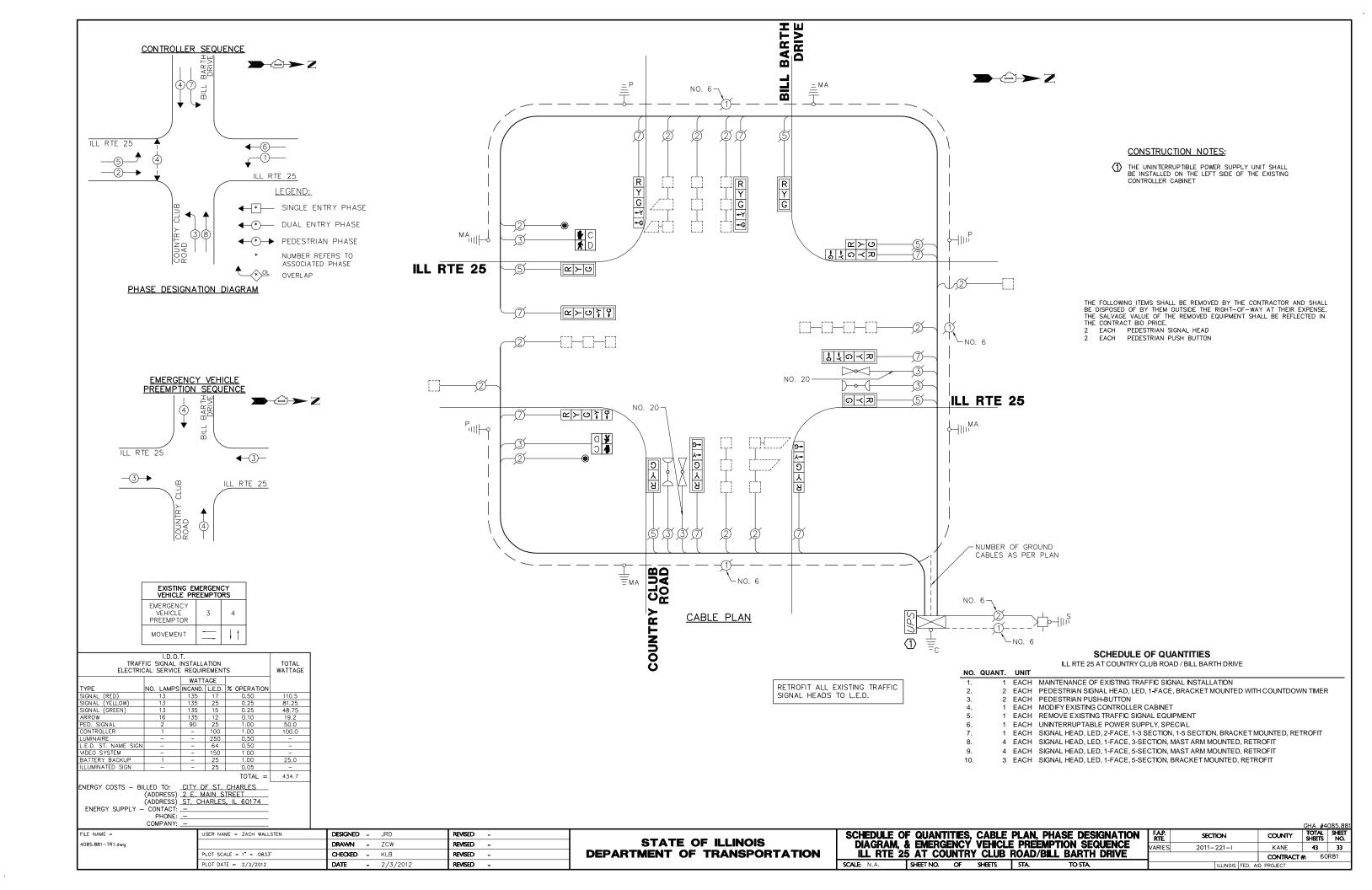
NOTE: PHASES 2+6 SHALL BE PLACED ON RECALL

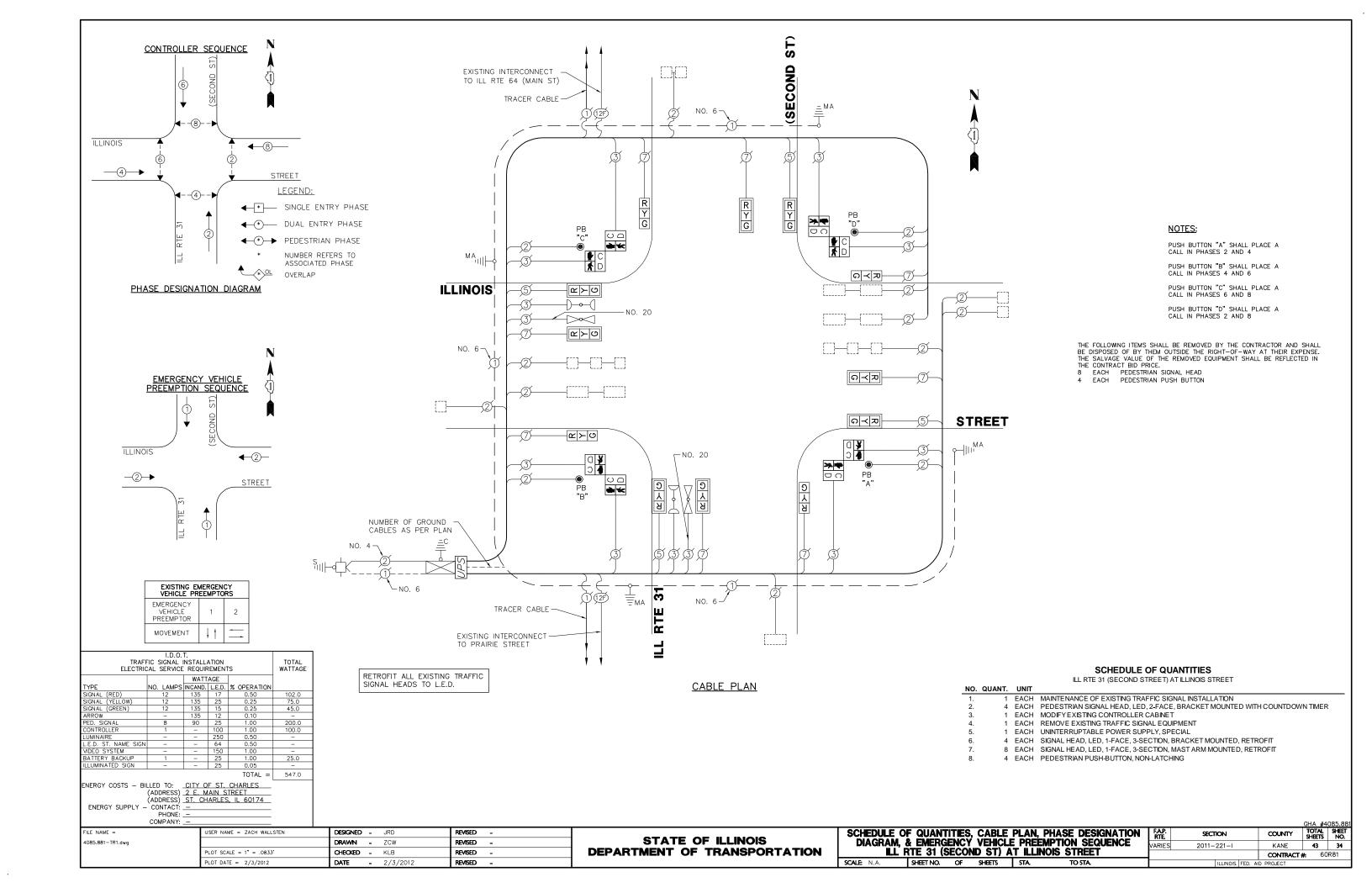
									GHA #4	.085.8°	31
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -		SEQUENCE OF OPERATIONS & RAILROAD	FAP.	SECTION	COUNTY	TOTAL	SHEET	П
4085.881 – TR1.dwg		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS	PREEMPTION SEQUENCE OF OPERATIONS	VARIES	2011-221-1	KANE	43	29	T
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	ILL RTE 31 AT AUCUTT ROAD / WEBSTER STREET			CONTRACT	# 60	JR81	٦
	PLOT DATE = 2/3/2012	DATE - 2/3/2012	REVISED -]	SCALE N.A. SHEET NO. OF SHEETS STA TO STA.	1-	ILLINOIS FED. AI'	ID PROJECT			\exists

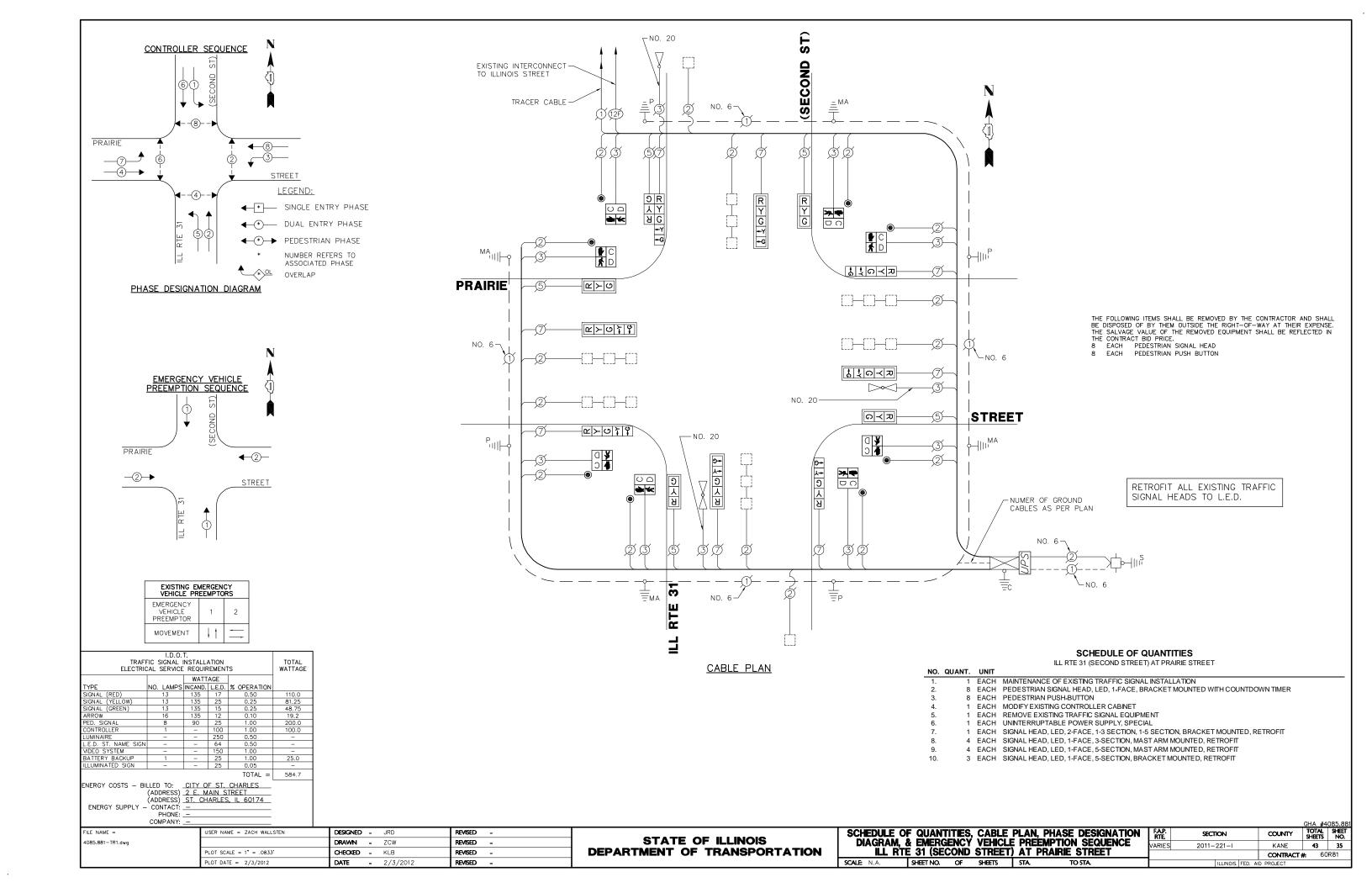


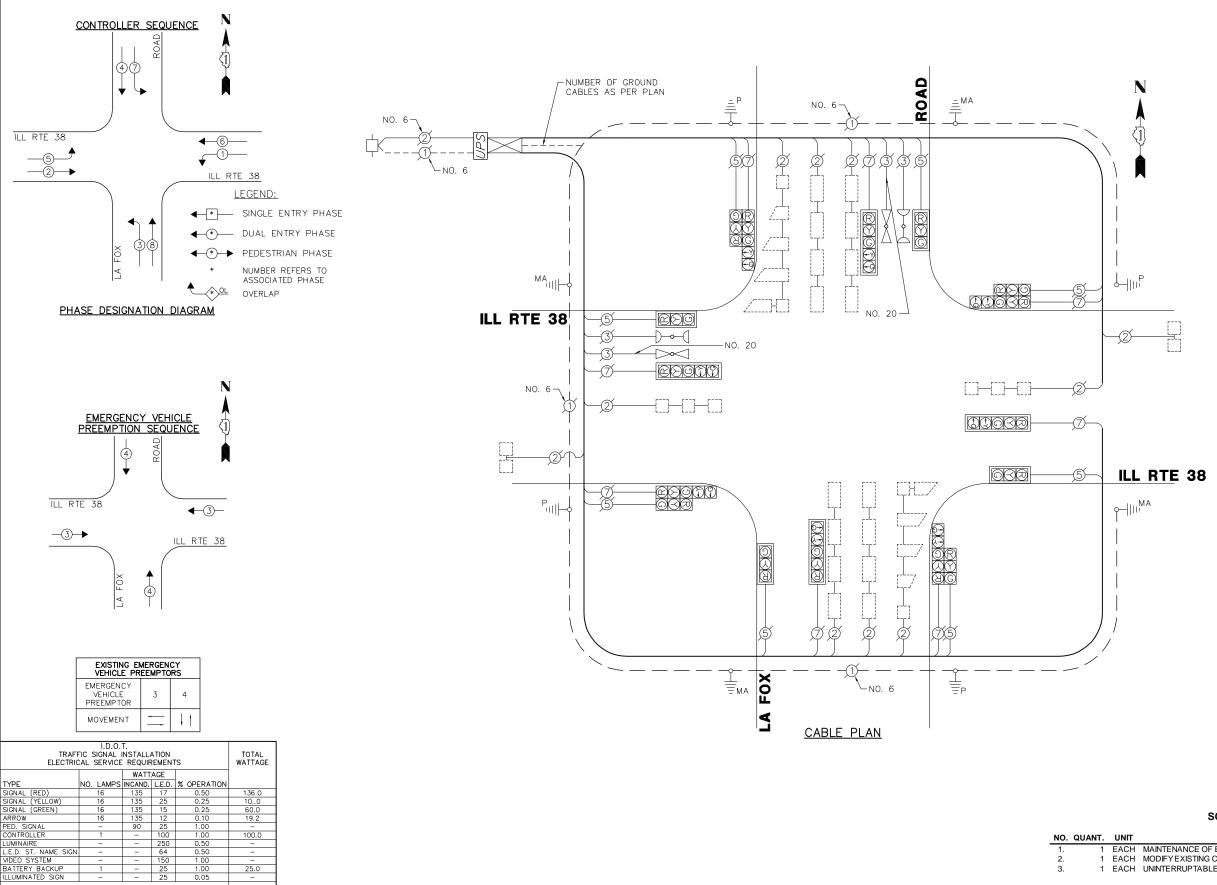












SCHEDULE OF QUANTITIES ILL RTE 38 AT LA FOX ROAD

1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1 EACH MODIFY EXISTING CONTROLLER CABINET

1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

ENERGY COSTS - BILLED TO: CITY OF ST. CHARLES

(ADDRESS) 2 F. MAIN STREET

(ADDRESS) ST. CHARLES, IL 60174 ENERGY SUPPLY - CONTACT: PHONE: COMPANY:

TOTAL =

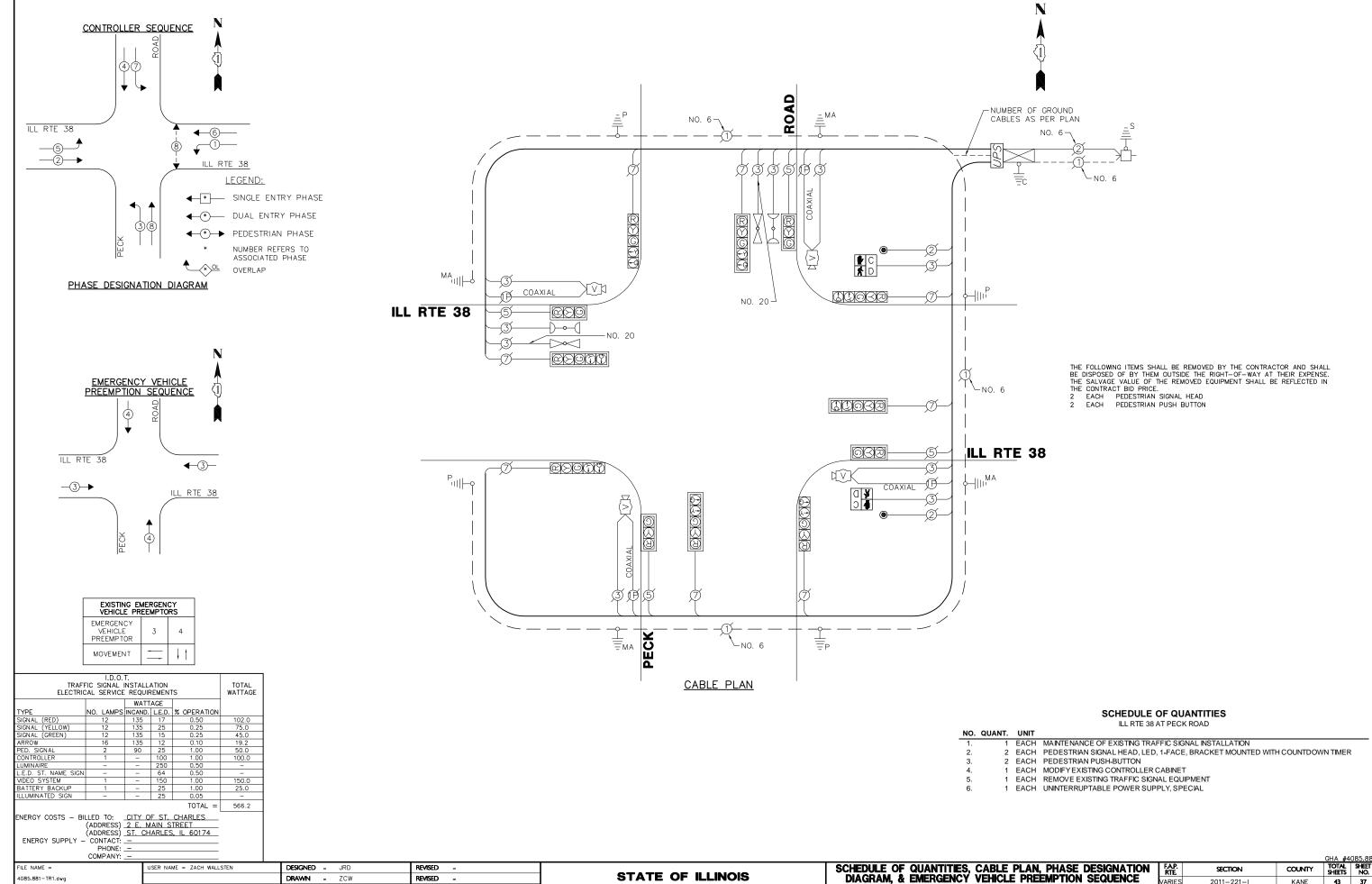
FILE NAME =

4085.881 – TR1.dwg

USER NAME = ZACH WALLSTEN DESIGNED - JRD REVISED -REVISED -DRAWN - ZCW CHECKED - KLB REVISED -PLOT DATE = 2/3/2012 - 2/3/2012 DATE REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE ILL RTE 38 AT LA FOX ROAD SHEET NO. OF SHEETS STA.

F.A.P. RTE SECTION COUNTY KANE **43** 36 2011-221-1 CONTRACT #: 60R81



DEPARTMENT OF TRANSPORTATION

CHECKED - KLB

- 2/3/2012

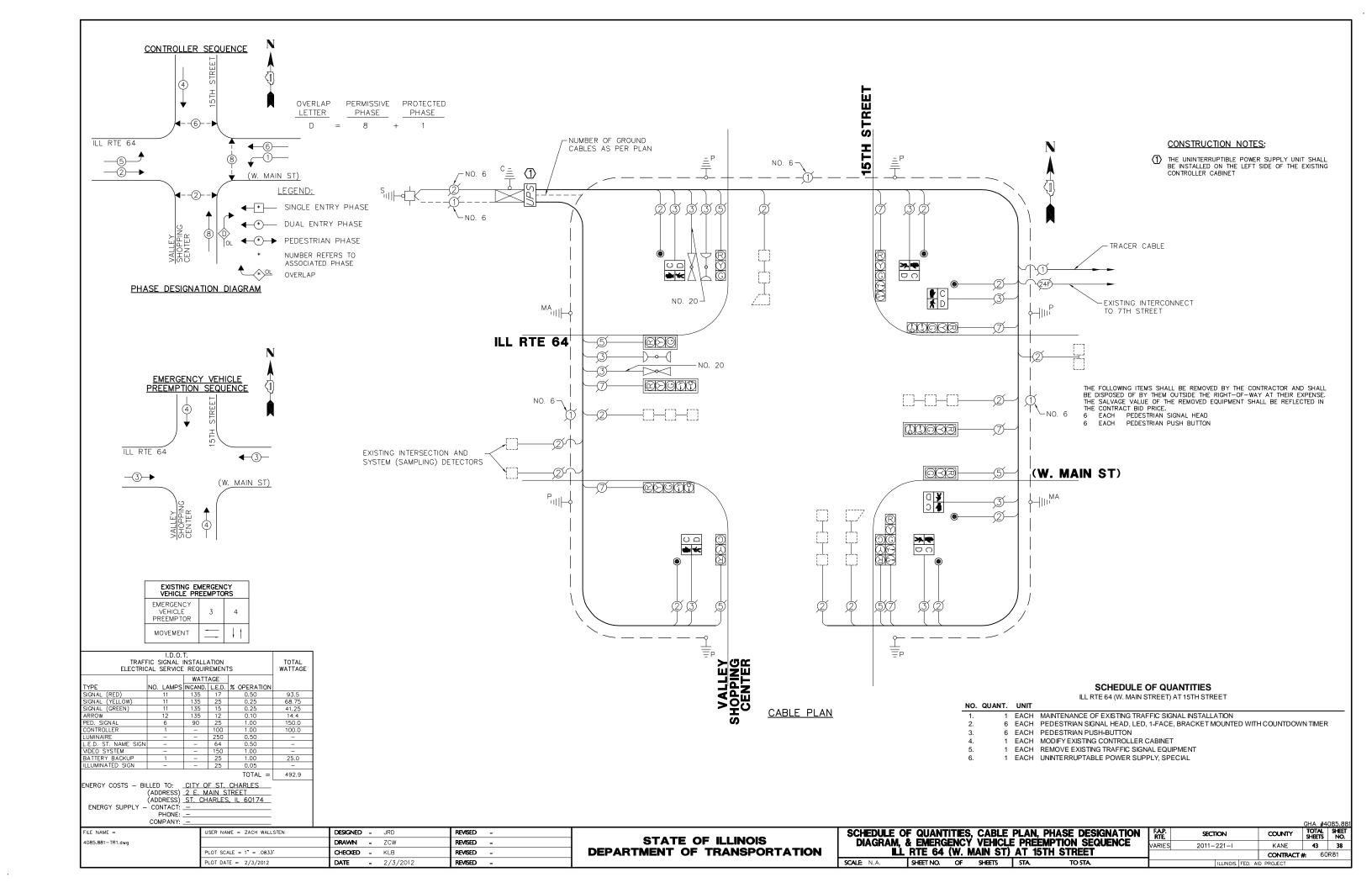
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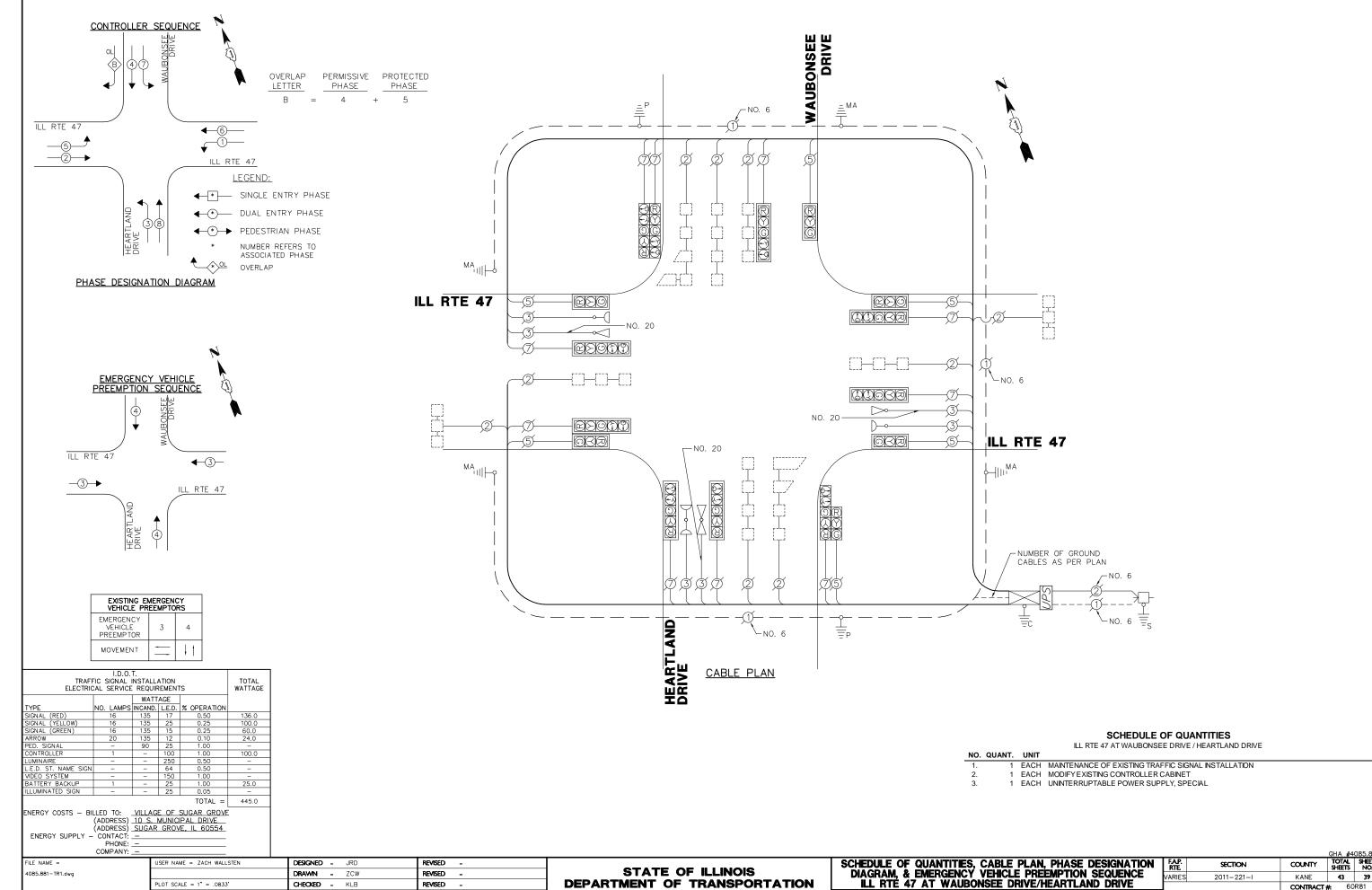
PLOT DATE = 2/3/2012

REVISED

REVISED

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE FAP. RTE COUNTY KANE **43 37** 2011-221-1 ILL RTE 38 AT PECK ROAD CONTRACT #: 60R81 SHEET NO. OF SHEETS STA.





STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SHEET NO. OF SHEETS STA.

REVISED -

REVISED -

REVISED

DRAWN - ZCW

CHECKED - KLB

DATE

PLOT DATE = 2/3/2012

- 2/3/2012

4085.881 – TR1.dwg

SECTION COUNTY KANE **43 39** 2011-221-1 CONTRACT #: 60R81

