09-19-14 LETTING ITEM 017

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

VARIOUS LOCATIONS IN SOUTH COOK COUNTY #7
LIGHT EMITTING DIODE (LED) INSTALLATION
SECTION 2014-044TS
COOK COUNTY

C-91-380-14

SEE SHEET NO. 3

HIGHWAY STANDARDS

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701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE 701101-04 OFF-ROAD OPERATIONS MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE

701701-09 URBAN LANE CLOSURE MULTILANE INTERSECTION

701901-03 TRAFFIC CONTROL DEVICES

720001-01 SIGN PANEL MOUNTING DEVICES
720006-04 SIGN PANEL ERECTION DETAILS

857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

862001-01 UNINTERRUPTIBLE POWER SUPPLY (UPS)

880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASING BEACON INSTALLATION

880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

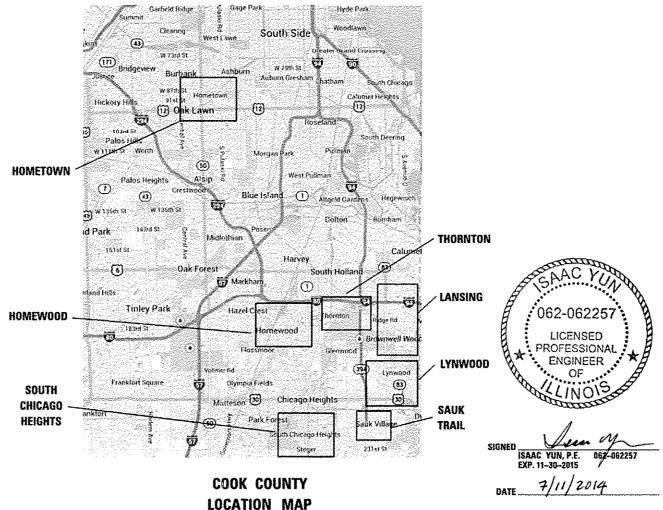
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: SHAR-DAY SMITH PROJECT MANAGER: DARYLE DREW

CONTRACT NO. 60Y42



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED

DEPUTY DEFECTOR OF HIGHWAYS, REGION ENGINEER

DEPUTY DEFECTOR OF HIGHWAYS, REGION ENGINEER

DEPUTY DEFECTOR OF DESIGN AND ENVIRONMENT

SOURCE OF DESIGN AND ENVIRONMENT

OUTPUT OF HIGHWAYS PULIE ENGINEER

SINGH

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

MANCOCK SELAND
MESSET

STARN
MANSHALL

FORTH

ROODFORD

LIVINGSTON

ROUGHS

RANGAREE

LOCATION OF SECTION INDICATED THUS: - -

2014-044TS

D-91-380-14

COOK 65 1

ILLINOIS CONTRACT NO. 60Y42

INDEX OF SHEETS

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2 INDEX OF SHEETS
3 LOCATION MAP
4-8 SUMMARY OF OUANTITIES
9-15 DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

TRAFFIC SIGNAL PLANS:

SHEET	TS#	INTERSECTION NAME
16	2540	IL ROUTE 50 (CICERO AVENUE) AT 88TH AVENUE
17	4090	DIXIE HIGHWAY AT 175TH STREET/GOVERNORS HIGHWAY
18	1880	IL ROUTE 1 (HALSTED STREET) AT 175TH STREET
19	12115	IL ROUTE 1 (HALSTED STREET) AT PARK PLACE PLAZA/176TH STREET
20	1875	IL ROUTE 1 (HALSTED STREET) AT MAPLE GATE 3
21	10740	DIXIE HIGHWAY AT RIDGE ROAD
22	5695	RIDGE ROAD AT ASHLAND AVENUE/RIEGEL ROAD
23	1855	IL ROUTE 1 (HALSTED STREET) AT RIDGE ROAD
24	4100	183RD STREET AT GOVERNORS HIGHWAY
25	11145	183RD STREET AT DIXIE HIGHWAY
26	4110	183RD STREET AT RIEGEL ROAD
27	1830	IL ROUTE I (HALSTED STREET) AT 183RD STREET
28	10745	DIXIE HIGHWAY AT WILLOW ROAD
29	10730	187TH STREET AT DIXIE HIGHWAY
30	10735	187TH STREET AT RIEGEL ROAD
31	1840	IL ROUTE 1 (HALSTED STREET) AT 187TH STREET
32-33	11360	WILLIAMS STREET AT ELEANOR STREET
34~35	11355	MARGARET STREET AT WILLIAMS STREET
36	11356	MARGARET STREET AT SCHWAB STREET
37	3519	THORTON/LANSING ROAD AT VOLBRECHT ROAD
38	20955	US ROUTE 6/IL ROUTE 83 (TORRENCE AVENUE) AT 166TH STREET/FIELDCREST DRIVE
39	11350	US ROUTE 6/IL ROUTE 83 (TORRENCE AVENUE) AT LANDINGS SHOPPING CENTER
40	12000	US ROUTE 6/IL ROUTE 83 (TORRENCE AVENUE) AT 173RD STREET/BERNICE ROAD
41	13942	US ROUTE 6/IL ROUTE 83 (TORRENCE AVENUE) AT 1-80/I-94 KINGERY EXPRESSWAY
42	21340	IL ROUTE 83 (TORRENCE AVENUE) AT 176TH STREET
43	13940	IL ROUTE 83 (TORRENCE AVENUE) AT 178TH STREET
44	3515	IL ROUTE 83 (TORRENCE AVENUE) AT THORNTON LANSING ROAD
45-46 47	3495	IL ROUTE 83 (TORRENCE AVENUE) AT RIDGE ROAD IL ROUTE 83 (TORRENCE AVENUE) AT 186TH STREET
48	3380	IL ROUTE 83 (TORRENCE AVENUE) AT GLENWOOD LANSING ROAD
49	21185 4230	BURNHAM AVENUE AT 170TH STREET
50	13950	BURNHAM AVENUE AT 172ND STREET
51	13955	BURNHAM AVENUE AT BERNICE ROAD
52	13960	BURNHAM AVENUE AT 178TH STREET
53	4235	BURNHAM AVENUE AT RIDGE ROAD
54	13965	BURNHAM AVENUE AT 186TH STREET
55	21385	191ST STREET AT BURNHAM AVENUE
56	13970	WENTWORTH AVENUE AT BERNICE ROAD
57	21090	GLENWOOD DYER ROAD AT STONEY ISLAND AVENUE
58	21500	IL ROUTE 83 (GLENWOOD DYER ROAD) AT BURNHAM AVENUE
59	1340	US ROUTE 30 (LINCOLN HIGHWAY) AT US ROUTE 30/IL ROUTE 83 (GLENWOOD DYER ROAD)
60	1405	US ROUTE 30/IL ROUTE 83 (LINCOLN HIGHWAY) AT SAUK TRAIL
61	1415	US ROUTE 30 (LINCOLN HIGHWAY) AT TORRENCE AVENUE
62	5760	SAUK TRAIL AT TORRENCE AVENUE
63	1860	IL ROUTE 1 (CHICAGO ROAD) AT SAUK TRAIL
64	5075	EAST END AVENUE AT SAUK TRAIL
65	5755	SAUK TRAIL AT STATE ROAD

GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRED, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS; ADOPTED JANUARY 1, 2014 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND ALL AMENDMENTS THERETO; IN CASE OF CONFLICT, THE MORE RESTRICTIVE PROVISIONS SHALL APPLY. ANY REFERENCE TO STANDARDS IN THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT.
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES, AND IDOT.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE OFPARTMENT.
- 5. 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 ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OF UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
- 6. THE CONTRACTOR SHALL NOTIFY THE IDOT ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 7. THE CONTRACTOR SHALL SOLELY 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.
- 8, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT OR THE DIRECTION OF THE ENGINEER.
- 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.
- 10 RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS SIGNAL POST, UNINTERRUPTIBLE POWER SUPPLY, 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 STANDARD SPECIFICATIONS ARTICLE 252 WHICH SHALL INCLUDE THE REDUIRED WATERING PER ARTICLE 252.08. ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS ARTICLE 250 AND 251. RESPECTIVELY.
- 11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- 12. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES. AND IDOT UNDERGROUND FACILITIES. CONTACT THE LOCAL COUNTIES, MUNICIPALITIES, AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811. IN THE CITY OF CHICAGO, CALL DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- 13 AT LOCATIONS ON THE PLANS WHERE TRAFFIC SIGNAL POST REMOVAL AND NEW TRAFFIC SIGNAL POST INSTALLATIONS ARE SPECIFIED, THE CONTRACTOR SHALL INSPECT THE EXISTING POST FOUNDATION. PRIOR TO REMOVING THE EXISTING TRAFFIC SIGNAL POST TO BE REPLACED, THE CONTRACTOR SHALL VERIFY THAT THE PATTERN, SPACING, AND CONDITION OF THE EXISTING ANCHOR BOLT IS ACCEPTABLE FOR REUSE WITH A NEW POST. IF THE EXISTING ANCHOR BOLT CONDITION IS NOT ACCEPTABLE, THE CONTRACTOR SHALL REPLACE ANCHOR BOLTS AS DIRECTED BY THE ENGINEER. ANCHOR BOLT REPLACEMENT WILL BE PAID FOR AS "REMOVE AND REPLACE ANCHOR BOLTS." "REMOVE AND REPLACE ANCHOR BOLTS." PAY ITEMS QUANTITIES SHOWN ARE NOMINAL AND ONLY TO BE UTILIZED AS APPROVED BY THE ENGINEER.

SCALE: NTS

- 14 THE CONTRACTOR SHALL RELOCATE ANY EXISTING SIGN PANELS. INCLUDING BLANK OUT SIGNS, FROM PAINTED POSTS THAT ARE INDICATED FOR REPLACEMENT TO A NEW POST AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION, AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE PAY ITEM OF THE LENGTH AS SPECIFIED IN THE PLANS.
- 15. CONTRACTOR SHALL REPLACE METAL MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS WITH NEW POLYCARBONATE BRACKETS OR AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CORRESPONDING SIGNAL HEAD, LED, RETROFIT PAY ITEM OF THE TYPE AND NUMBER OF SIGNAL HEADS, FACES, AND SECTIONS AS SPECIFIED IN THE PLANS.
- 16. PARTIAL PAYMENT AS DESCRIBED IN ARTICLE 109.07(b) OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS CONTRACT.
- 17. A CONCRETE APRON SHALL NOT BE REQUIRED FOR NEW UPS INSTALLATIONS ADJACENT TO EXISTING IMPERVIOUS SURFACES THAT SATISFY THE NEED OF THE CONCRETE APRON, AS DIRECTED BY THE ENGINEER.
- 18. FOR THE FOLLOWING TS LOCATIONS, DUE TO THE PRESENCE OF RED LIGHT RUNNING (RLR) CAMERA COMPANY WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOTIFY THE MUNICIPALITIES AND RLR CAMERA COMPANIES LISTED BELOW PRIOR TO THE START OF CONTRUCTION. THE MUNICIPALITIES AND RLR CAMERA COMPANIES SHALL MAKE THE CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION, ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

RLR CAMERA LOCATIONS:
1880 | L ROUTE | (HALSTED STREET) AT 175TH STREET
1830 | L ROUTE | (HALSTED STREET) AT 183RD STREET
1855 | L ROUTE | (HALSTED STREET) AT RIDGE ROAD
4100 | 183RD STREET AT GOVERNORS HIGHWAY

VILLAGE OF HOMEWOOD 2020 CHESTNUT ROAD HOMEWOOD, IL 60430 (708) 798-3000

8361 E. EVANS ROAD SUITE 108 SCOTTSDALE. AZ 85260 (978) 922-7294 (480) 205-7180

GATSO USA. INC.

RLR CAMERA LOCATIONS: 1860 IL ROUTE 1 (CHICAGO ROAD) AT SAUK TRAIL 5755 SAUK TRAIL AT STATE ROAD

VILLAGE OF SOUTH CHICAGO HEIGHTS 3317 CHICAGO ROAD SOUTH CHICAGO HEIGHTS, IL 60411 (708) 755-1880 (708) 755-1881 REDSPEED ILLINOIS 400 EISENHOWER LANE NORTH LOMBARD, IL 60148 (630) 317-5700 (630) 424-0217

RLR CAMERA LOCATIONS: 1340 US ROUTE 30 (LINCOLN HIGHWAY) AT US ROUTE 30/IL ROUTE 83 GLENWOOD-DYER ROAD 1405 US ROUTE 30/IL ROUTE 83 (LINCOLN HIGHWAY) AT SAUK TRAIL

VILLAGE OF LYNWOOD 21460 LINCOLN HIGHWAY LYNWOOD, IL 60411 (708) 758-6101

REDSPEED ILLINOIS 400 EISENHOWER LANE NORTH LOMBARD, IL 60148 (630) 317-5700 (630) 424-0217

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	RTE. SECTION COUNTY SHEETS NO.
INDEX OF SHEETS	2014-044TS COOK 65 2
	CONTRACT NO. 60Y42
SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A	ILLINOIS FED. AID PROJECT

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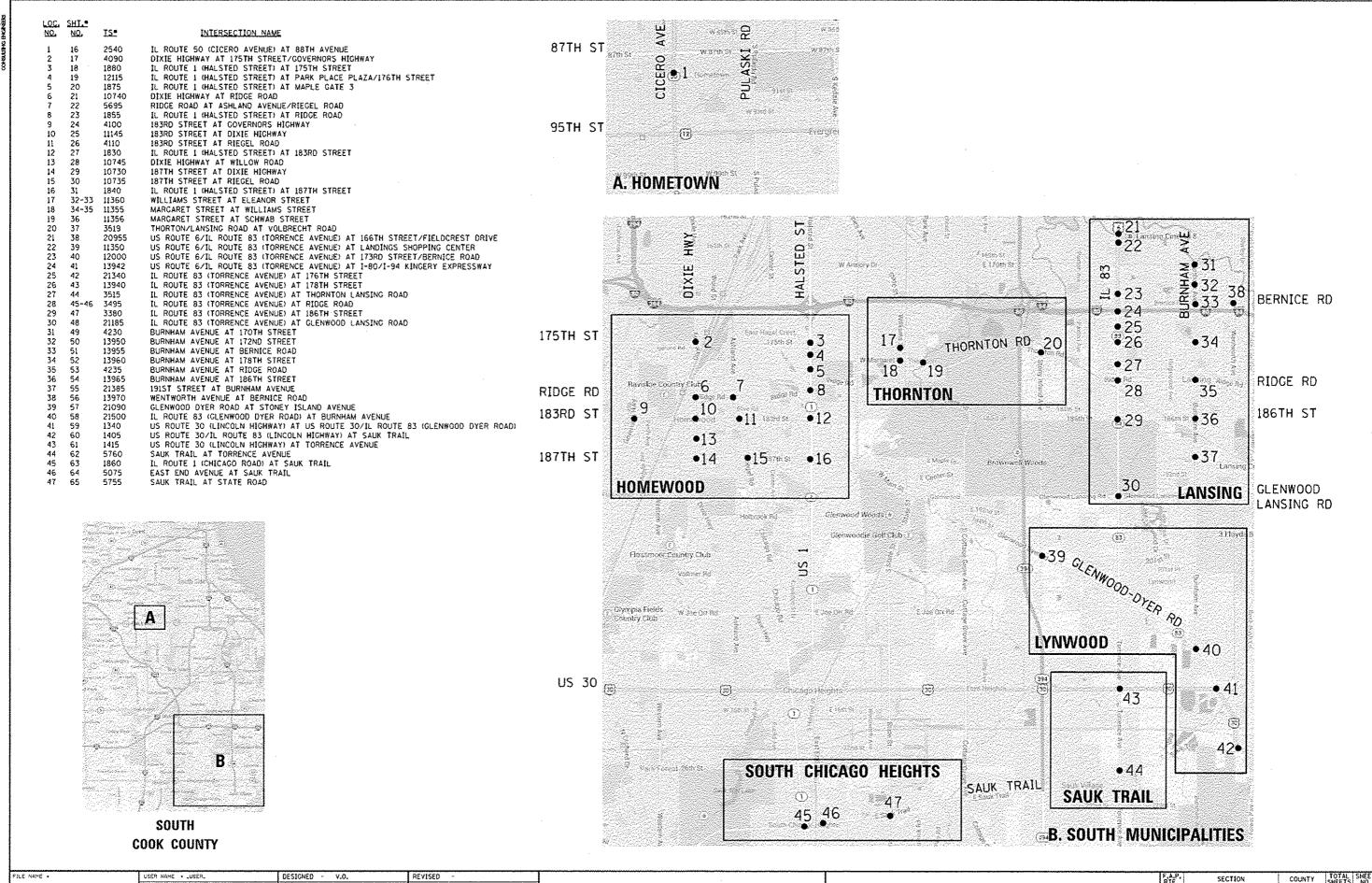
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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

LOCATION MAP

SHEET NO. 1 OF 1 SHEETS STA. N/A

2014-044TS

ILLINGIS FED. AID PROJECT

COOK 65 3

CONTRACT NO. 60Y42



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5 .		4		1		+		-
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SPECIAL PROVISIONS

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	PLOT DATE = 7/9/2014	DATE -	7/11/2014	REVISED ~		SCALE: NTS SHEET NO. 2 OF 5 SHEETS STA. N/A	TO STA. N/A		ILLINOIS PED. AL	D PROJECT	

1 2 3 4 5 6 7 8 9 10 TRAFFIC SIGNAL CODE TOTAL ITEM UNIT 0021 NO. QUANTITY URBAN 88030220 SIGNAL HEAD, LED. 2-FACE, 5-SECTION, BRACKET MOUNTED EACH 88030240 SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED EACH 88030310 SIGNAL HEAD, LED. 3-FACE. 3-SECTION, BRACKET MOUNTED EACH 88055160 OPTICALLY PROGRAMMED SIGNAL HEAD, LED. 1-FACE, 3-SECTION, MAST ARM MOUNTED EACH EACH 88055190 OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED 1 88060390 EACH COMBINATION SIGNAL HEAD, LED. 3-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 2-3 SECTION, BRACKET MOUNTED 2 EACH 88102710 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED 88102717 PEDESTRIAN SIGNAL HEAD, LED. 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH 34 2 20 4 50 120 EACH 88102740 PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED 88102747 PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH 22 14 5 2 8 88200210 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH 74 8 4 30 8 2 14 88500100 INDUCTIVE LOOP DETECTOR EACH 17 6 2 22 4 4 8 46 88800100 PEDESTRIAN PUSH-BUTTON EACH 96 89500100 RELOCATE EXISTING SIGNAL HEAD EACH 38 12 9 8

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CONSTRUCTION CODE



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NO.	ITEM	UNIT	QUANTITY	′├─				D21 BAN		
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89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	7			7	And the second s			
		4								
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	34	15	1	5 1	2	E	2	2
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89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	34	10	1	6 1	1	1 1	) 2	2
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	5.00	<u> </u>	-				$\vdash$		
X8570226	TOLE MOTORSED CONTINUELER MID TITE IV CADINET, SECURE	EACH	1	$\frac{1}{1}$	1	1	***************************************			$\dashv$
x8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	37	15	1	8 1	2	Ę.	5 2	2
X8803040	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	11	6				2		3
X8803082	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	7	3				1		1
X8803084	SIGNAL HEAD, LED. 1-FACE, 3-SECTION, MAST ARM MOUNTED. RETROFIT	EACH	26	19	$\dashv$			1		
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x8803086	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED, RETROFIT	EACH	7	7	1		-			
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X8803087	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, SPAN WIRE MOUNTED, RETROFIT	EACH	4	4						
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X8803088	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	24	15	1	***************************************		3	-	4
X8803090	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2	2	+	-		-		$\dashv$
		- Landi	***		+	_		And the second s		+
X8803210	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	17	l 1	+			3		.1 /
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X8803910	SIGNAL HEAD, LED. 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT	EACH	1			***************************************				1
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RTE. SECTION	COUNTY	SHEETS	NO.
2014-044TS	COCK	65	7
	CONTRACT	NO. E	0Y42
ILLINOIS FED. A	IO PROJECY		
	2014-044TS	2014-044TS COOK	2014-044TS COOK 65 CONTRACT NO. 6



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	X8880015	PEDESTRIAN PUSH-BUTTON. NON-LATCHING	EACH	72 /	42	8			17		5	
	70050400	REMOVE AND REPLACE ANCHOR BOLTS	EACH	27		<del></del>	╁		3		_	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		A.144.4.4.			F.A.P. RTE.	SECTION	COUNTY	YOTAL	SHEET NO.
1		SUMMARY	OF QUANTITIES			2014-044TS	COOK	65	8
1	~~~~		<del>, , , , , , , , , , , , , , , , , , , </del>				CONTRACT	NO.	50Y42
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CONSTRUCTION CODE

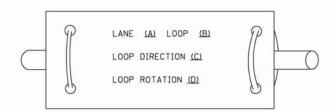
# TRAFFIC SIGNAL LEGEND

ITCH	DEMOVA	EVICTIVO	PROPOSES	ITCH	PENOVA	EVICTING	DDODOCCO	ITEM	DEMOVA	EVICTIVO	PDODOCEO
ITEM CANING A	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL R	EXISTING	PROPOSED	ITEM  ELECTRIC CABLE IN CONDUIT, TRACER,	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	⊠ ^R			EMERGENCY VEHICLE LIGHT DETECTOR	R _{o-Q}	<b>∞</b>	<b>~</b>	NO. 14 1/C, UNLESS NOTED OTHERWISE			—1)—
RAILROAD CONTROL CABINET	R		▶◀	CONFIRMATION BEACON		<b>0</b> —0	н	COAXIAL CABLE		<b>−⊙</b>	—©—
COMMUNICATIONS CABINET MASTER CONTROLLER	СС	E C C	CC	HANDHOLE	R _□			Section Sectional Conference and			
MASTER MASTER CONTROLLER		EMMC	MC MMC	HEAVY DUTY HANDHOLE	R	H	H	VENDOR CABLE FOR CAMERA		—	
UNINTERRUPTABLE POWER SUPPLY	UPS R	EUPS	UPS	DOUBLE HANDHOLE	R			COPPER INTERCONNECT CABLE,		<u> </u>	-6-
SERVICE INSTALLATION.	- <u></u> -	-D ^P	- <b>-</b> P	JUNCTION BOX	R		0	NO. 18 3 PAIR TWISTED, SHIELDED FIBER OPTIC CABLE		~	•
P) POLE OR (G) GROUND MOUNT			***************************************	UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				NO. 62.5/125, MM12F		—J2F	
ELEPHONE CONNECTION P) POLE OR (G) GROUND MOUNT	R	PT	Ē	TEMPORARY SPAN WIRE, TETHER WIRE,	R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		-245-	-(24F)-
TEEL MAST ARM ASSEMBLY AND POLE	R	0	•	AND CABLE				(U.A.S.) - China Contrato (M.C.) - China China (M.C.) - China China (M.C.)		6	
LUMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH			СТ	FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F		<u> </u>	—36F)—
TEEL COMBINATION MAST ARM SSEMBLY AND POLE WITH LUMINAIRE	^R O-≭	0-×	• ×	COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	GROUND ROD AT (C) CONTROLLER.			
TEEL COMBINATION MAST ARM	R	0	•	SYSTEM ITEM		2	S	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		Cill	c <mark>il →</mark>
SSEMBLY AND POLE WITH PTZ CAMERA	配	PIZD	PIZ	INTERSECTION ITEM	D	I	IP	CONTROLLER CABINET AND	RCF		
IGNAL POST	RO	0	•	REMOVE ITEM RELOCATE ITEM	RL			FOUNDATION TO BE REMOVED			
EMPORARY WOOD POLE (CLASS 5 OR ETTER) 45 FOOT (13.7m) MINIMUM	^R ⊗	$\otimes$	•	ABANDON ITEM	A			STEEL MAST ARM POLE AND	RMF		
UY WIRE	>R	>	>	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	FOUNDATION TO BE REMOVED			
GNAL HEAD	R	$\rightarrow$	-	404 4700 A DEC WITH 04 4000 A		R	5 <del></del> 5	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
IGNAL HEAD CONSTRUCTION STAGES IUMBERS INDICATE THE CONSTRUCTION STAGE)			<b>→</b> ²	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF O-X		
IGNAL HEAD WITH BACKPLATE	+⊳ ^R	+1>	+-			R	R	FOUNDATION TO BE REMOVED			
GNAL HEAD OPTICALLY PROGRAMMED	_R >′′P′′	— <b>⊳</b> ″p″	<b>→</b> "P"	SIGNAL FACE			G	SIGNAL POST AND FOUNDATION TO BE REMOVED	RPF		
ASHER INSTALLATION DENOTES SOLAR POWER)	O-D″F″	O- <b>(</b> )″F″	• <b></b> "F"			<b>*</b> **	<b>∢</b> Y <b>∢</b> G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR			IS
DESTRIAN SIGNAL HEAD	R -	-0	4			R	R	SAMPLING (SYSTEM) DETECTOR		[s]	S
DESTRIAN PUSHBUTTON DETECTOR	R	(6)	(iii)	SIGNAL FACE WITH BACKPLATE.			Y			(1 <del></del> 1	
	R	<u> </u>		"P" INDICATES PROGRAMMED HEAD			G ◆Y	QUEUE DETECTOR		[0]	Q
CESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	® APS	@APS	@ APS	"RB" INDICATES REFLECTIVE BACKPLATE		<b>₹</b>	<b></b> G	PREFORMED QUEUE DETECTOR		Poi	PO
LUMINATED SIGN IO LEFT TURN''	R	<b>S</b>	lacktriangle			"P"	"P"	THE ONMED GOEDE DETECTOR		1, 01	I. of
LUMINATED SIGN	R			12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
O RIGHT TURN"	8	8	<b>(P)</b>	12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS
TECTOR LOOP, TYPE I		[]		INTERNATIONAL SYMBOL, OUTLINED				The Charles of the Administration of Charles and the Charles of the Charles of Charles o		+	
REFORMED DETECTOR LOOP		9 e   p !	Р	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID		<b>©</b>	*	RAILROAD	SYMBO	210	
	R	7		PEDESTRIAN SIGNAL HEAD, INTERNATIONAL		55-575C		IIAILIIOAL	, JIMB		
ICROWAVE VEHICLE SENSOR	R MD	M	<b>W</b>	SYMBOL, WITH COUNTDOWN TIMER		<b>●</b> C <b>★</b> D	<b>₽</b> C <b>★</b> D			EXISTING	PROPOSED
IDEO DETECTION CAMERA	R _V D	(V)	<b>(V)</b>	RADIO INTERCONNECT	-   R			RAILROAD CONTROL CABINET			
IDEO DETECTION ZONE							2	RAILROAD CANTILEVER MAST ARM		XOX X	IOX X X
	R			RADIO REPEATER	RERR	ERR	RR	FLASHING SIGNAL		<del>X0</del> X	X <del>OX</del>
AN, TILT, ZOOM CAMERA	門之口	PIZ	PIZ (	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,		<del>_(5)</del> _	-5-	A CONTRACTOR OF THE CONTRACTOR			
IRELESS DETECTOR SENSOR	RW	W	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED		~		CROSSING GATE		<del>X0X</del> >	XOX-
VIRELESS ACCESS POINT	R	$\Box$	-	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)			(1)	CROSSBUCK		*	*
NAME = USER NAME = footemj w_work\pwidot\footemj\d0108315\ts05.dgn		ESIGNED - DAG/BCK RAWN - BCK	REVISED REVISED	- DAG 1-1-14 - STAT	E OF ILLINOIS	s		DISTRICT ONE	F.A RTE.	SECTION 2014 044TS	COUNTY TOTAL SHEETS
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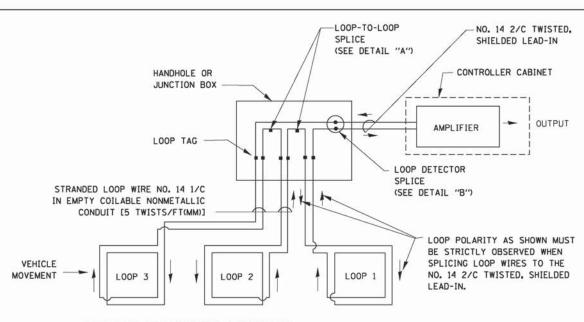
### LOOP DETECTOR NOTES

- 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

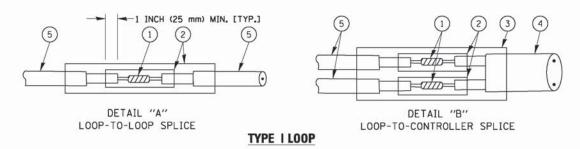


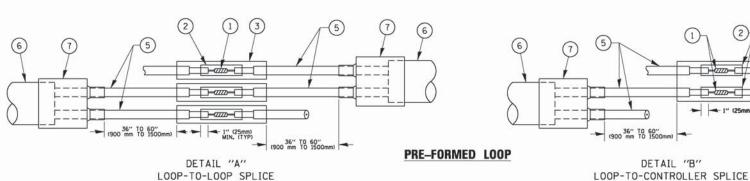
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



### **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. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (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.

SCALE: NONE

4 NO. 14 2/C TWISTED, SHIELDED CABLE.

- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

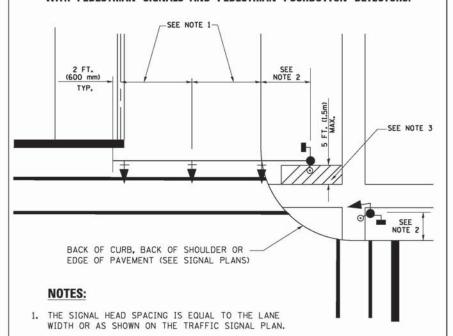
1" (25mm) MIN, (TYP)

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

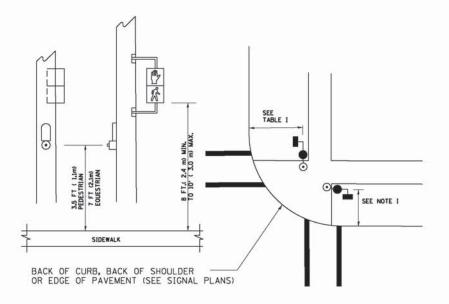
SECTION COUNTY DISTRICT ONE 2014-044TS COOK STANDARD TRAFFIC SIGNAL DESIGN DETAILS TS-05 CONTRACT NO. 60Y42 SHEET NO. 2 OF 7 SHEETS STA. FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT

# TRAFFIC SIGNAL MAST ARM AND SIGNAL POST MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALKBICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



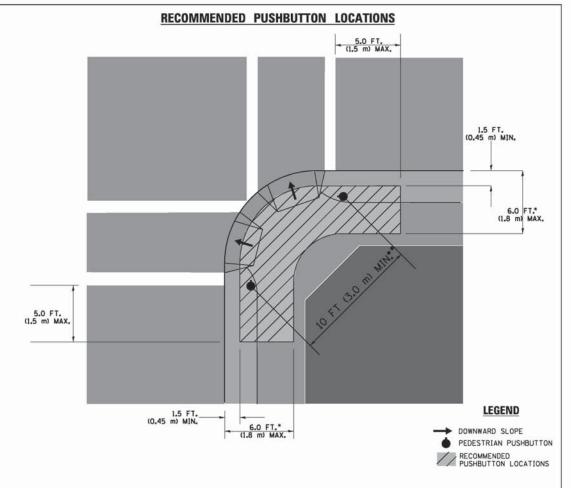
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL PAST
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE 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 AND 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.
- 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



- 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.
- 2. 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.
- 3. 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.
- 4. 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.

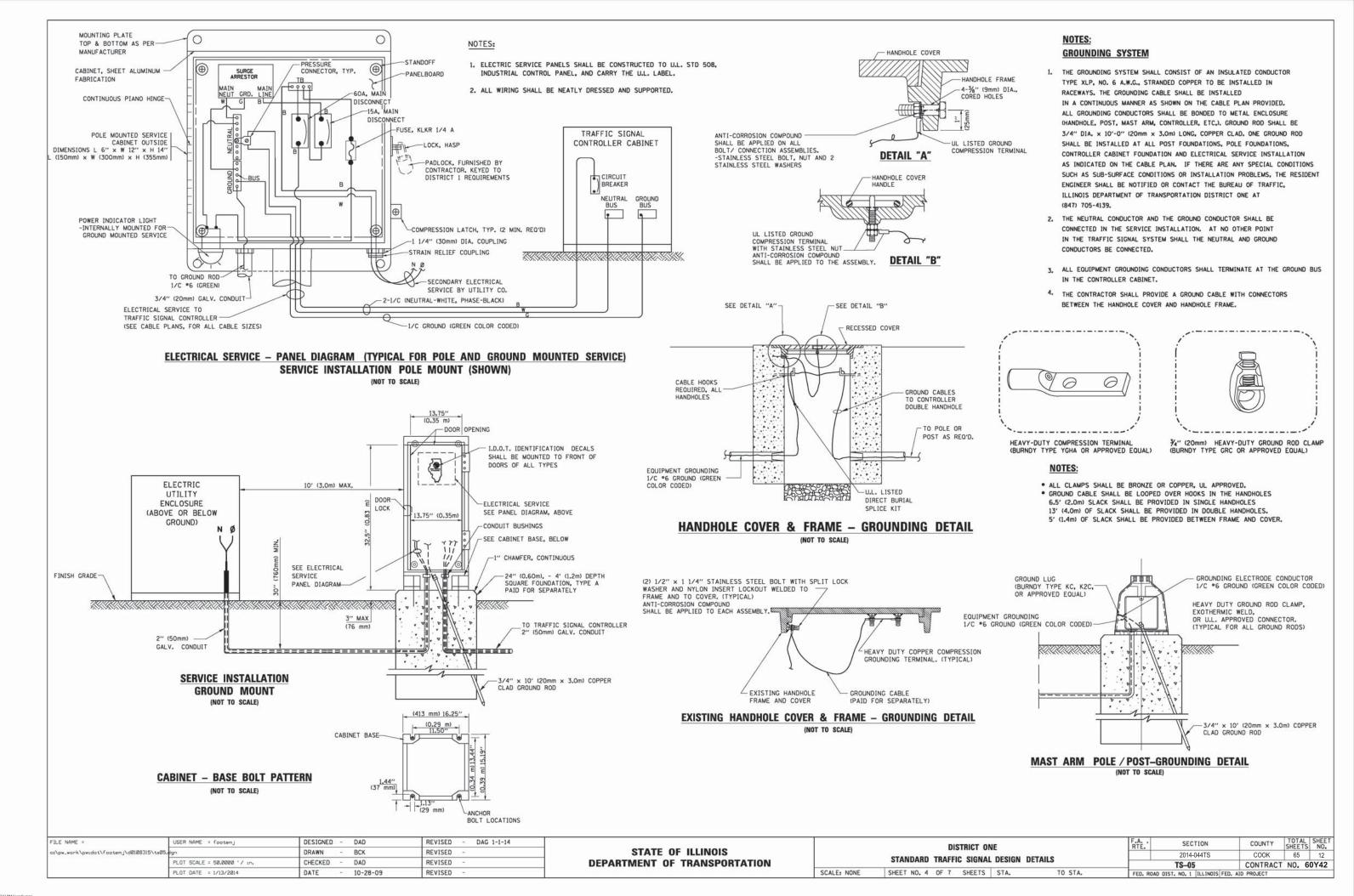
### TRAFFIC SIGNAL EQUIPMENT OFFSET

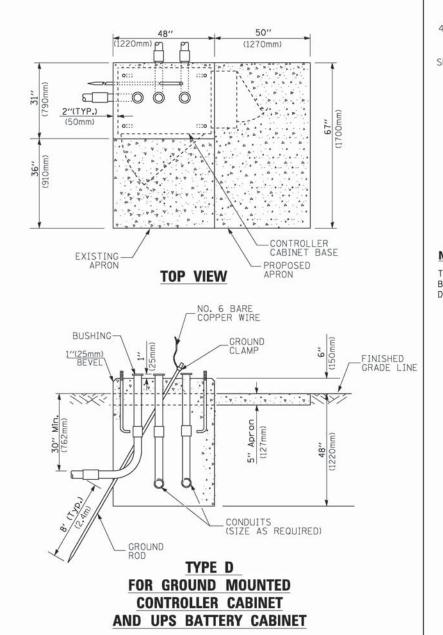
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)									
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), 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.									

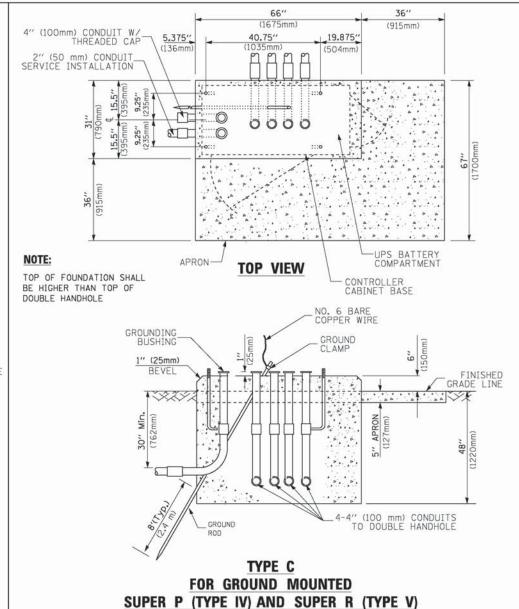
### NOTES:

- 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 TOTHE 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.

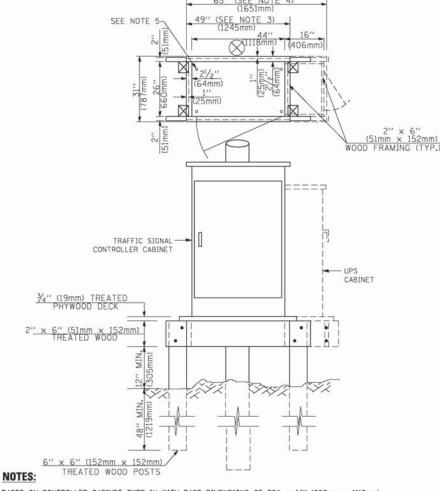
FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14			DISTRICT ONE	F.A RTE.	SECTION	COUNTY TOT	TAL SHEET
cs\pw_work\pwidot\footemj\d0108315\ts05	dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS				2014-044TS	COOK 65	55 11
	PLOT SCALE = 50.0000 '/ in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRACT NO.	60Y42
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 3 OF 7 SHEETS STA. TO STA.	FFD. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT	







**CONTROLLER CABINETS** 



- 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

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

CABLE SLACK

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

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)

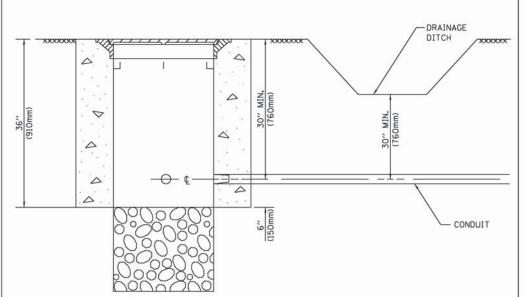
### NOTES:

- These foundation depths are for sites which have cohesive soils (clayey slit, 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 most 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) diameter foundations
- 4. For most arm assemblies with dual arms refer to state standard 878001..

### DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14			DISTRICT ONE	F.A RTE.	SECTION	COUNTY TOTAL SHEET NO.
os/pw_work/pwidot/footemj/d0108315/ts05.	dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS				2014-044TS	COOK 65 13
	PLOT SCALE = 50.0000 '/ in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRACT NO. 60Y42
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 5 OF 7 SHEETS STA. TO STA.	FFD. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT

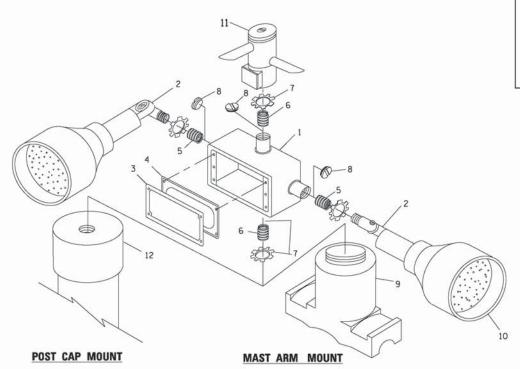
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### NOTES

- CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- 3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

### HANDHOLE WITH MINIMUM CONDUIT DEPTH (NOT TO SCALE)



### 36" (1675mm) (915mm) 19.875" 5.375" 40.75" (136mm (1035mm) (504mm) 00 0 PROPOSED APRON CABINET BASE **TOP VIEW** NO. 3 DOWEL 18" (450mm) LONG (8 REQ.) BUSHING -GROUND ANCHOR BOLTS 1"(25mm) BEVEL -EXISTING CONDUITS EXISTING GROUND ROD MODIFY EXISTING TYPE "D" FOUNDATION

# MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

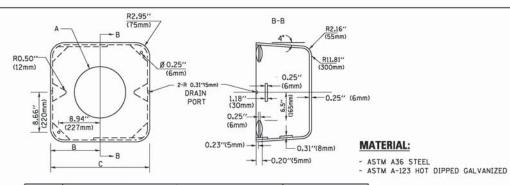
(NOT TO SCALE

# ITEM NO. IDENTIFICATION 1 OUTLET BOX- GALY. 21 CU.IN, (O.000344 CU-M) 2 LAMP HOLDER AND COVER 3 OUTLET BOX COVER 4 RUBBER COVER GASKET 5 REDUCING BUSHING 6 ¾''(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:

- 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
- POST CAP MOUNT

  MAST ARM MOUNT

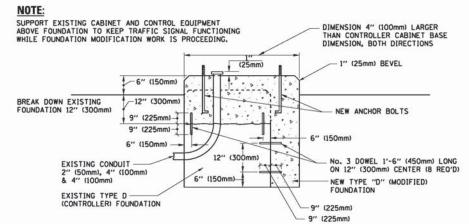


Α	В	С	HEIGHT	WEIGHT		
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)		
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)		
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)		
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126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

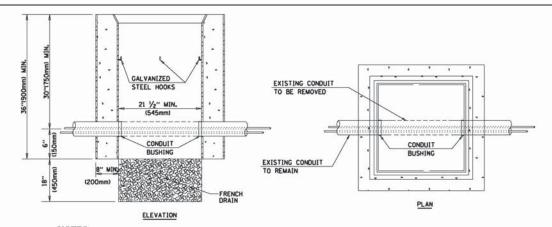
### SHROUD

#### 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.



### MODIFY EXISTING TYPE "D" FOUNDATION



### NOTES:

SCALE: NONE

- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

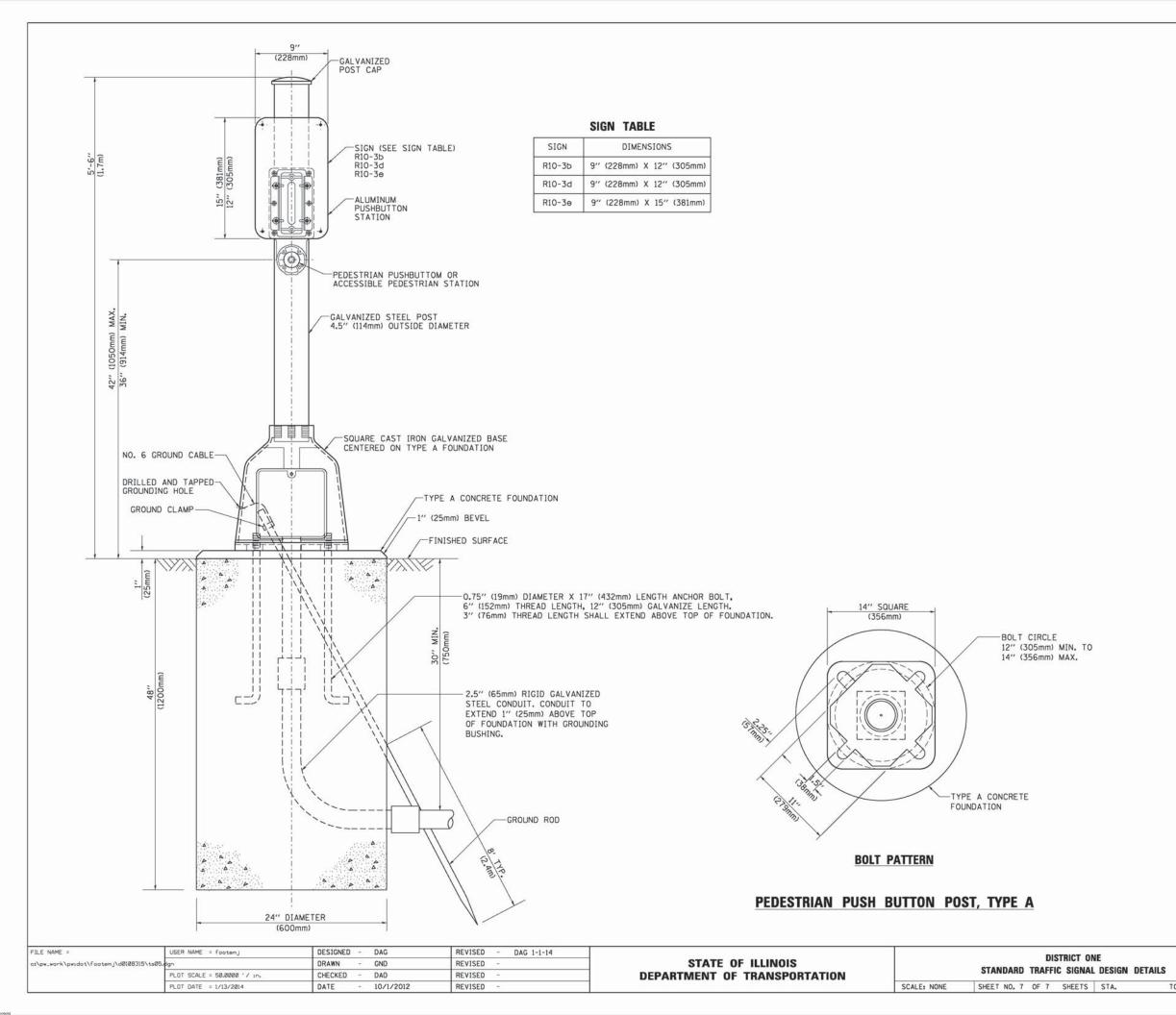
### HANDHOLE TO INTERCEPT EXISTING CONDUIT

FILE NAME =	USER NAME = footemj	DESIGNED		DAD	REVISED	-	DAG 1-1-14
cs\pw_work\pwidot\footemj\dØ108315\tsØ5.	dgn	DRAWN	-	BCK	REVISED	-	
	PLOT SCALE = 50.0000 '/ in.	CHECKED	÷	DAD	REVISED	- 8	
	PLOT DATE = 1/13/2014	DATE	. (+)	10-28-09	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		DIS	STRICT ON	IE		F.A RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
and the second of the second o							2014-044TS	COOK	65	14
	STANDARD TRAFFIC SIGNAL DESIGN DETAILS						NO. 6	0Y42		
	SHEET NO. 6	OF 7	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		

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SECTION

2014-044TS

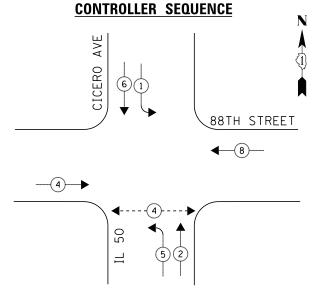
FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT

TS-05

COUNTY

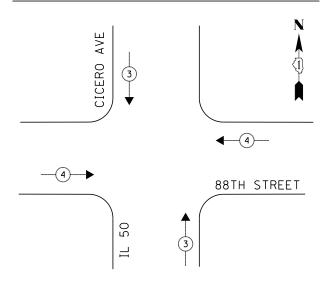
COOK

CONTRACT NO. 60Y42



### PHASE DESIGNATION DIAGRAM

### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**



TRAF ELECTR	TOTAL						
TYPE	NO LAMPS	WATT	AGE	%OPERATION	WATTAGE		
'''-	I NO EANS	INCAND.	. LED				
SIGNAL (RED)	10		17	0.5	85		
(YELLOW)	10		25	0.25	62.5		
(GREEN)	10		15	0.25	37.5		
ARROW	8		12	0.10	9.6		
PED. SIGNAL	2		25	1.00	50		
CONTROLLER	1		100	1.00	100		
ILLUM. SIGN			25	0.05	-		
VIDEO SYSTEM			-	1.00	-		
51 461150							

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: <u>ILYAS MOHIUDDIN</u>
PHONE: (708) 235-2692

PHONE: (708) 235-2692
COMPANY: COMMONWEALTH EDISON

344.6

TOTAL =

<u>LEGEND</u> **◆**■ DUAL ENTRY PHASE

INTERCONNECT TO 87TH STREET

TRACER CABLE

* SINGLE ENTRY PHASE

◆--* - PEDESTRIAN PHASE NUMBER REFERS TO

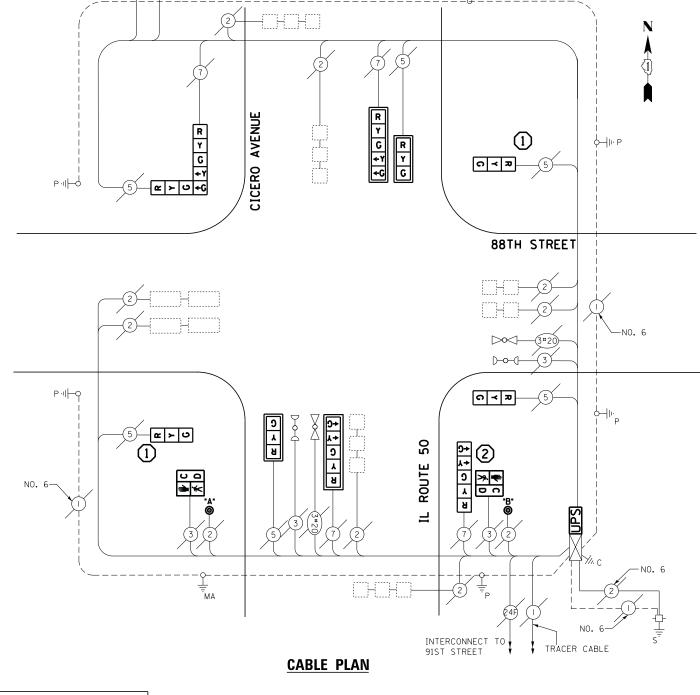
O.L. OVERLAP

REPLACE 14FT, PAINTED POST, RE-USE EXISTING FOUNDATION

ASSOCIATED PHASE

REPLACE 16FT, PAINTED POST, RE-USE EXISTING FOUNDATION

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4						
MOVEMENT	<b>↓</b> ↑	11						



### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	PEDESTRIAN PUSH-BUTTON
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS

STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

3 EACH TRAFFIC SIGNAL POST
4 EACH TRAFFIC SIGNAL BACKPLATE
2 EACH PEDESTRIAN SIGNAL HEAD
2 EACH PEDESTRIAN PUSH-BUTTON
5 EACH SIGNAL HEAD, 3-SECTION
4 EACH SIGNAL HEAD, 5-SECTION

ECONOLITE ASC/2S-1000 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT
SHALL BE ECONOLITE TO
MATCH THE ADJACENT
EXISTING SYSTEM

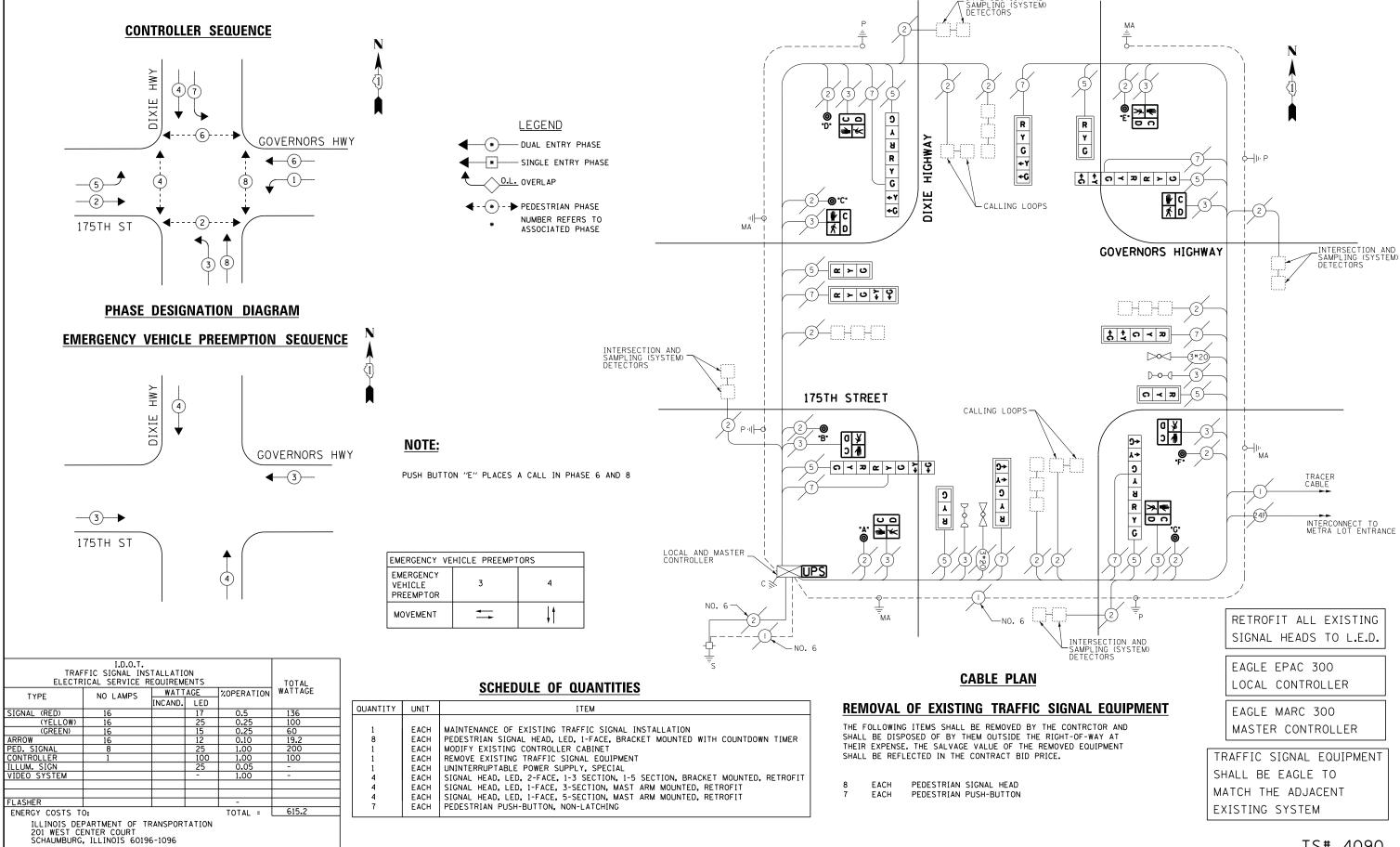
TS# 2540 HOMETOWN



ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

PHONE: (708) 235-2692

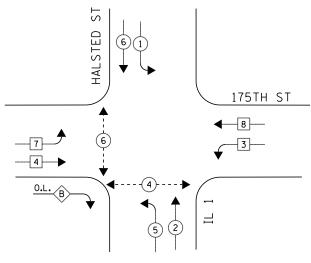
COMPANY: COMMONWEALTH EDISON



TS# 4090 HOMEWOOD

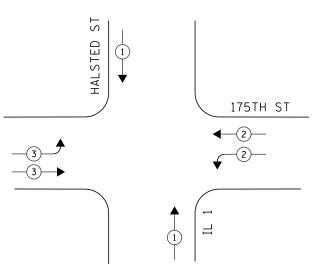
DESIGNED - V.O. REVISED SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SECTION COUNTY STATE OF ILLINOIS :\13155\60Y42\DGN\CADD Sheets\D160Y42 t-ts-02_4090.dan DRAWN E.C. REVISED EMERGENCY VEHICLE PREEMPTION SEQUENCE 2014-044TS COOK 65 17 CHECKED I.Y. REVISED **DEPARTMENT OF TRANSPORTATION** DIXIE HIGHWAY AT 175TH STREET / GOVERNORS HIGHWAY CONTRACT NO. 60Y42 SHEET NO. 1 OF 1 SHEETS STA. N/A DATE 7/11/2014 REVISED





### PHASE DESIGNATION DIAGRAM

### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**



WATTAGE XOPERATION WATTAGE

TOTAL = 603.6

INCAND. LED

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

NO LAMPS

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

PHONE: (708) 235-2692

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

TYPE

SIGNAL (RED)

PED. SIGNAL CONTROLLER ILLUM. SIGN VIDEO SYSTEM

FLASHER
ENERGY COSTS TO:

(YELLOW) (GREEN)

		OVERLAP LETTER			RMISSIVE ASE		PROTECTED PHASE				
		В	=		4	+	+ 5				
-	N A (1)		1		E 16FT, PA G FOUNDAT		POST, RE-	-USE			
	EMERGENCY VEHICLE PREEMPTORS										
		EMERGENCY VEHICLE PREEMPTOR		1	2		3				
	MOVEMENT			<b>↓</b> ↑							

**LEGEND** 

* DUAL ENTRY PHASE * SINGLE ENTRY PHASE

O.L. OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION

← - (*) - → PEDESTRIAN PHASE

NUMBER REFERS TO ASSOCIATED PHASE

1 \( \frac{1}{4} \) \( 1	HALSTED STREET  STATE  COLUMN   **************************************		
5-CXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		2 2 2 3*2 0 - 3 = 2 0 - 3 = 2 5	
P III 0 2 9 1 1 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1 ROUTE 1	R P P P P P P P P P P P P P P P P P P P	NO. 6 NO. 6 S
	CABLE PLAN	AI	ED LIGHT PHOTO ENFOR NTERSECTION VENDOR: ATSO USA INC

### SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	EACH	PEDESTRIAN PUSH-BUTTON
8	EACH	RELOCATE EXISTING SIGNAL HEAD
2	EACH	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

EACH TRAFFIC SIGNAL POST EACH PEDESTRIAN PUSH-BUTTON

RCED GATSO USA, INC.

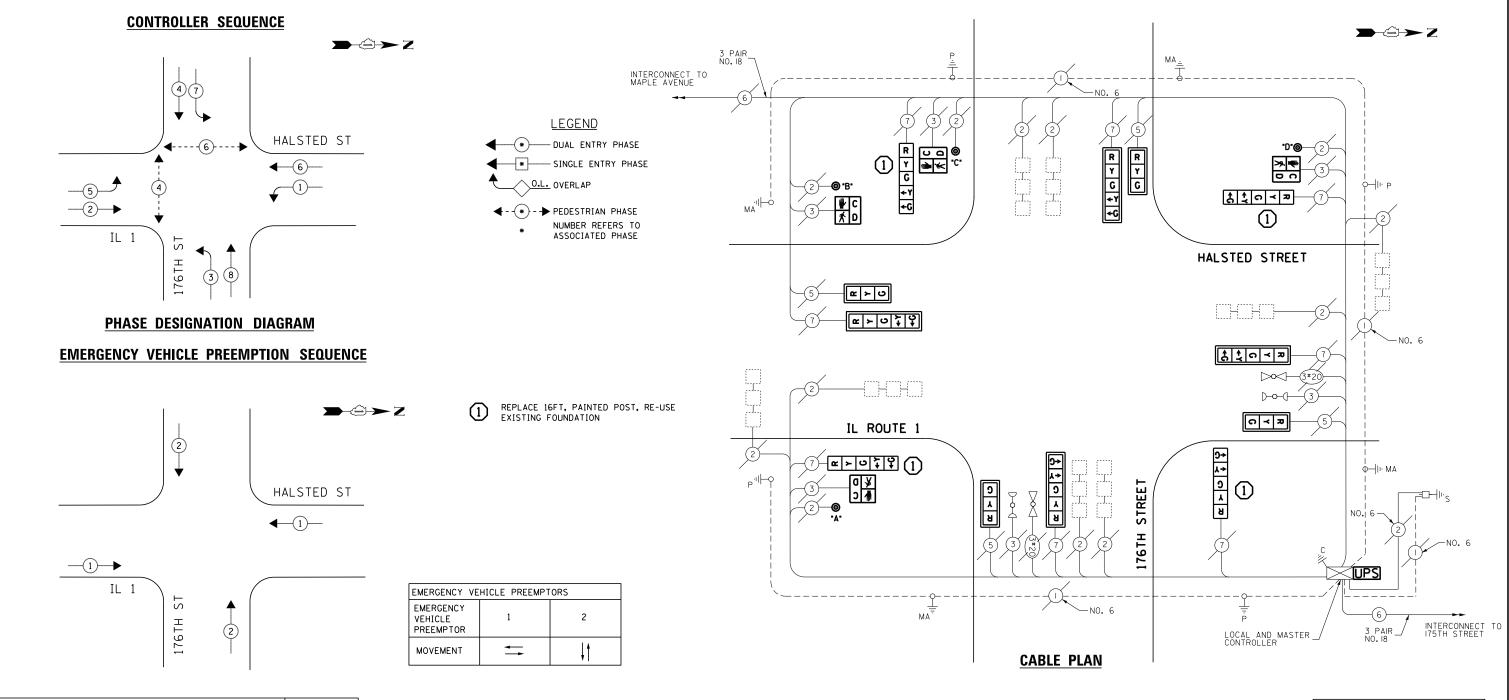
> ECONOLITE ASC/2-1000 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

> TS# 1880 HOMEWOOD

COMPANY: COM	MONWEALTH EDISON									
FILE NAME = USER NAME = USER. DESIGNED		DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	ht-ts-03_1880.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE IL ROUTE 1 (HALSTED STREET) AT 175TH STREET			2014-044TS	соок	65 18
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRAC	T NO. 60Y42
	PLOT DATE = 7/9/2014 DATE - 7/11/2014 REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A	TO STA. N/A		ILLINOIS FED. A				





TRAF ELECTR	TOTAL				
TYPE	NO LAMPS	WATT INCAND.	AGE LED	%OPERATION	WATTAGE
SIGNAL (RED)	12	INCAND.	17	0.5	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	16		12	0.10	19.2
PED. SIGNAL	4		25	1.00	100
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	-
VIDEO SYSTEM			-	1.00	-
FLASHER				-	
ENERGY COSTS TO	441.2				
ILLINOIS DEF 201 WEST CE SCHAUMBURG					

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

PHONE: (708) 235-2692

### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM							
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION							
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16FT.							
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED							
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED							
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED							
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER							
8	EACH	RAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM							
4	EACH	EDESTRIAN PUSH-BUTTON							
1	EACH	MODIFY EXISTING CONTROLLER CABINET							
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT							
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL							
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS							

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4 EACH TRAFFIC SIGNAL POST
4 EACH SIGNAL HEAD, 3-SECTION
8 EACH SIGNAL HEAD, 5-SECTION
4 EACH PEDESTRIAN SIGNAL HEAD
8 EACH TRAFFIC SIGNAL BACKPLATE
4 EACH PEDESTRIAN PUSH-BUTTON

ECONOLITE ASC/2S-2100 LOCAL CONTROLLER

ECONOLITE ASC/2M-1000 MASTER CONTROLLER

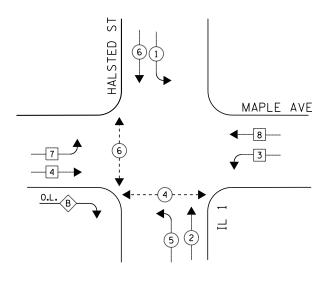
TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

> TS# 12115 HOMEWOOD

	MMONWEALTH EDISON										I I O I VIL I	1000	
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANT	TITIES, CABLE PLAN, PH	ASE DESIGNATION DIAGRA	M, AND	F.A.P. RTE.	SECTION	COUNTY	TOTAL SI SHEETS	HEET NO.
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-04_12115.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE IL ROUTE 1 (HALSTED STREET) AT PARK PLACE PLAZA /176TH STREET			2014-044TS	соок	65	19		
	PLOT SCALE = 20.0000 '/ in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION			PLACE PLAZA /176TH STREET				CONTRAC	T NO. 60	Y42
	PLOT DATE = 7/9/2014 DATE - 7/11/2014 REVISED -			SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. AID PROJECT							

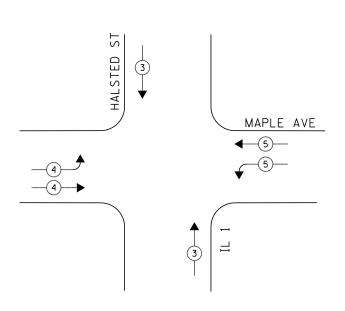


### **CONTROLLER SEQUENCE**



### PHASE DESIGNATION DIAGRAM

### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**



	TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO LAMPS	WATT	AGE	%OPERATION	WATTAGE	
1 '''-	THE EXILITS	INCAND.	LED			
SIGNAL (RED)	19		17	0.5	161.5	
(YELLOW)	19		25	0.25	118.75	
(GREEN)	19		15	0.25	71.25	
ARROW	12		12	0.10	14.4	
PED. SIGNAL	4		25	1.00	100	
CONTROLLER	1		100	1.00	100	
ILLUM. SIGN			25	0.05	•	
VIDEO SYSTEM			-	1.00		
FLASHER				-		
ENERGY COSTS	0:			TOTAL =	565.9	

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

IDOT

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

FILE NAME :

PHONE: (708) 235-2692 COMPANY: COMMONWEALTH EDISON

DESIGNED - V.O. REVISED USER NAME = _USER. :\13155\60Y42\DGN\CADD Sheets\D160Y42 ht-ts-05_1875.dan DRAWN E.C. REVISED CHECKED - I.Y. REVISED DATE REVISED PLOT DATE = 7/9/2014 7/11/2014

* DUAL ENTRY PHASE * SINGLE ENTRY PHASE O.L. OVERLAP ← - (*) - → PEDESTRIAN PHASE NUMBER REFERS TO ASSOCIATED PHASE

**LEGEND** 

				_	_
LETTER		PHASE		PHASE	
OVERLAP		PERMIS	SSIVE	PROTECTED	
RIGHT	TURN	OVERLAP	PHASE	DESIGNATIO	١

- REPLACE 10FT, PAINTED POST, RE-USE EXISTING FOUNDATION
- REPLACE 14FT, PAINTED POST, RE-USE EXISTING FOUNDATION
- REPLACE 16FT, PAINTED POST, RE-USE EXISTING FOUNDATION

### **NOTES:**

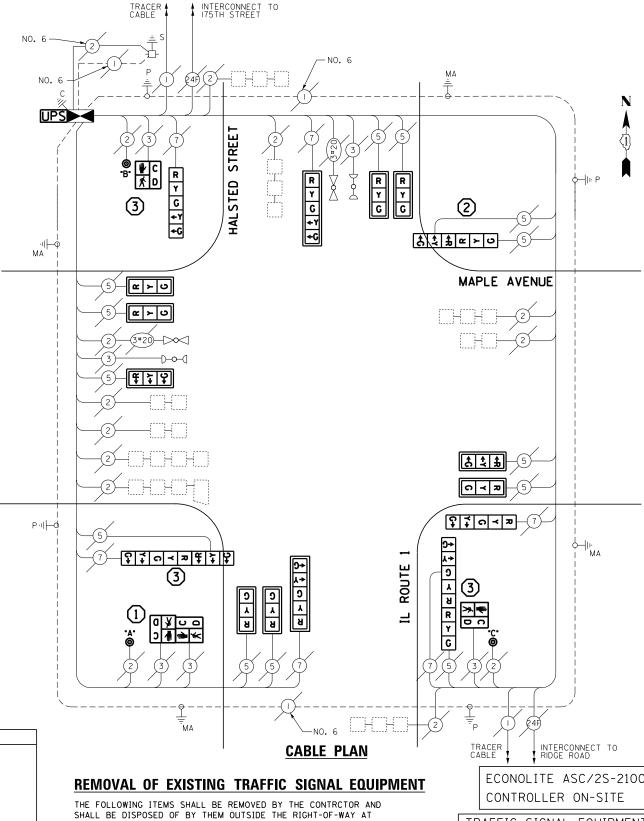
PUSH BUTTON "A" PLACES A CALL IN PHASE 4 AND 6

RELOCATE EVP PHASING UNIT TO THE NEW CONTROLLER CABINET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF REPLACING THE CONTROLLER / CABINET.

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4	5				
MOVEMENT	<b>↓</b> ↑	<u> </u>					

### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
9	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
11	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
9	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS



THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

TRAFFIC SIGNAL POST 13 EACH SIGNAL HEAD, 3-SECTION SIGNAL HEAD, 5-SECTION PEDESTRIAN SIGNAL HEAD TRAFFIC SIGNAL BACKPLATE EACH PEDESTRIAN PUSH-BUTTON INDUCTIVE LOOP DETECTOR EACH CONTROLLER AND CABINET

ECONOLITE ASC/2S-2100

TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

> TS# 1875 HOMEWOOD

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, A **EMERGENCY VEHICLE PREEMPTION SEQUENCE** IL ROUTE 1 (HALSTED STREET) AT MAPLE GATE 3

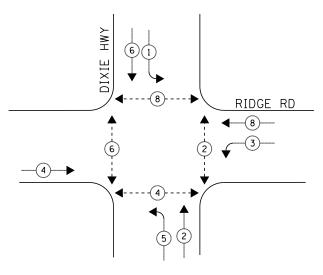
TO STA. N/A

SHEET NO. 1 OF 1 SHEETS STA. N/A

CONTRACT NO. 6	:0Y41
2014-044TS COOK 65	20
AND F.A.P. SECTION COUNTY SHEETS	SHEE NO.

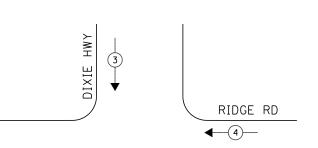
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

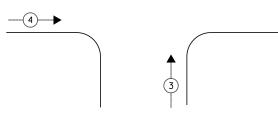
### **CONTROLLER SEQUENCE**



### PHASE DESIGNATION DIAGRAM

### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**





NCAND. LED

WATTAGE CAND. LED COPERATION WATTAGE

TOTAL =

478.5

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

NO LAMPS

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

PHONE: (708) 235-2692

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

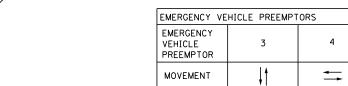
TYPE

SIGNAL (RED)

LLUM. SIGN /IDEO SYSTEM

ENERGY COSTS TO:

(YELLOW) (GREEN)





# **₩** C ∪ O **1** D → ≪ R Y G ←Y ←G RYCY F 2 HIGHWAY ма Ма ର ⊀ ଅ DIXIE RIDGE ROAD NO. 6-ର ≺ ଅ -NO. 6 $\infty$ PII ମ **୪** ଅ @ > U \ \ 0 ¥ <u>□</u> ←

### **SCHEDULE OF QUANTITIES**

**LEGEND** 

* SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

REPLACE 14FT, PAINTED POST, RE-USE

REPLACE 16FT, PAINTED POST, RE-USE

EXISTING FOUNDATION

EXISTING FOUNDATION

* DUAL ENTRY PHASE

O.L. OVERLAP

← - (*) - → PEDESTRIAN PHASE

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED. 1-FACE, 3-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

**CABLE PLAN** 

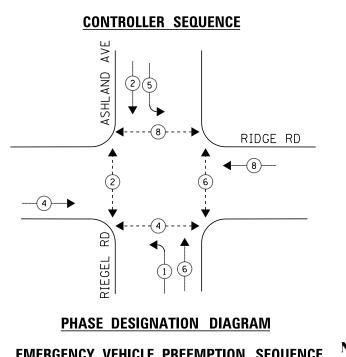
TRAFFIC SIGNAL POST SIGNAL HEAD, 3-SECTION EACH EACH EACH SIGNAL HEAD, 5-SECTION PEDESTRIAN SIGNAL HEAD ECONOLITE ASC/2-2100 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

> TS# 10740 HOMEWOOD

N

COMPANY: COM	MMONWEALTH EDISON							
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P.	SECTION	COUNTY TOTAL SHE
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-06_10740.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE		2014-044TS	COOK 65 21
	PLOT SCALE = 20.0000 '/ in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	DIXIE HIGHWAY AT RIDGE ROAD			CONTRACT NO. 60Y4
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED.	



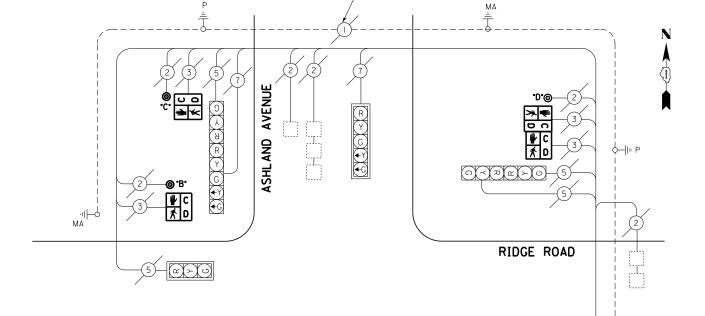
### **LEGEND**

* DUAL ENTRY PHASE

* SINGLE ENTRY PHASE O.L. OVERLAP

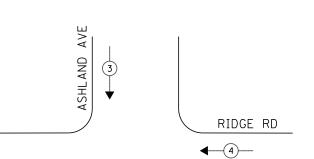
← - (*) - → PEDESTRIAN PHASE NUMBER REFERS TO

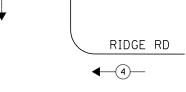
ASSOCIATED PHASE

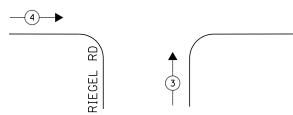


-NO. 6

### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**



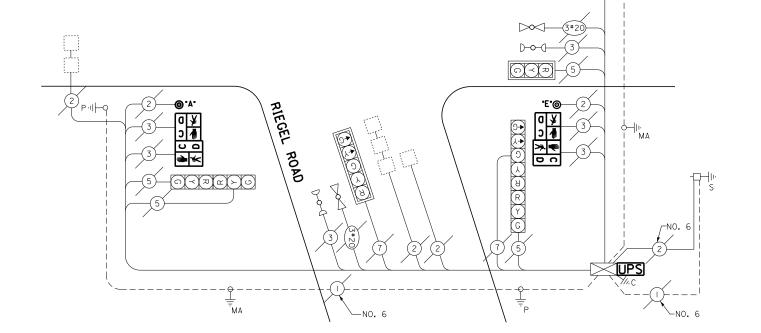




### NOTE:

PUSH BUTTON "A" PLACES A CALL IN PHASE 2 AND 4 PUSH BUTTON "D" PLACES A CALL IN PHASE 6 AND 8 PUSH BUTTON "E" PLACES A CALL IN PHASE 4 AND 6

EMERGENCY VE	HICLE PREEMPT	ORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>↓</b> †	ţ†



### **CABLE PLAN**

TOTAL

TYPE	NO LAMPS	WATTAGE		%OPERATION	WATTAGE
1111	NO LAWI 5	INCAND.	LED		
SIGNAL (RED)	12		17	0.5	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	8		12	0.10	9.6
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	-
VIDEO SYSTEM			-	1.00	-
FLASHER				-	
ENERGY COSTS TO	0:			TOTAL =	531.6

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN PHONE: (708) 235-2692 COMPANY: COMMONWEALTH EDISON

### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
5	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON EACH

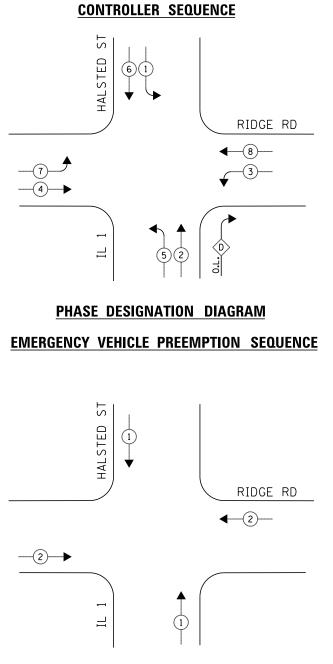
ECONOLITE ASC/3-2100 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

> TS# 5695 HOMEWOOD

FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF	QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-07_5695.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS		EMERGENCY VEHICLE PREEMPTION SEQUENCE	1,112.	2014-044TS	соок	65	22
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION		RIDGE ROAD AT ASHLAND AVENUE /RIEGEL ROAD			CONTRACT	T NO. F	OY42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. A			

A		ILLINOIS FED. A	D PROJECT			
			CONTRACT	NO. 6	0Y42	
		2014-044TS	СООК	65	22	
, AND	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	



I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

NCAND. LED

388.5

TOTAL =

NO LAMPS

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

PHONE: (708) 235-2692

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

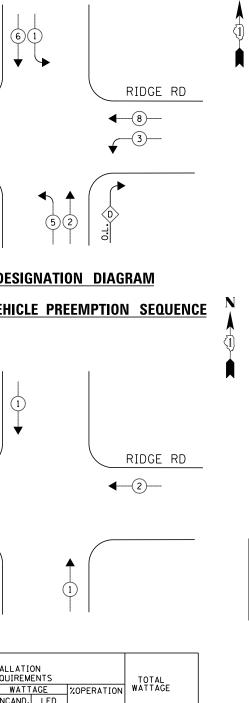
TYPE

SIGNAL (RED)

LLUM. SIGN /IDEO SYSTEM

ENERGY COSTS TO:

(YELLOW) (GREEN)



# **LEGEND** * DUAL ENTRY PHASE * SINGLE ENTRY PHASE O.L. OVERLAP ← - (*) - → PEDESTRIAN PHASE NUMBER REFERS TO ASSOCIATED PHASE RIGHT TURN OVERLAP PHASE DESIGNATION OVERLAP PERMISSIVE PROTECTED LETTER PHASE PHASE REPLACE 16FT, PAINTED POST, RE-USE EXISTING FOUNDATION

EMERGENCY VE	HICLE PREEMPT	ORS
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	<b>↓</b> †	<b>=</b>

# HALSTED STREET 1 ·II—^J MA RIDGE ROAD — NO. 6 (†)(†)(A)(A)(Z)(Z) P·II├∳ -EXPORT (1) (1) ± MΑ 3 PAIR — RED LIGHT PHOTO ENFORCED INTERSECTION VENDOR: **CABLE PLAN** GATSO USA, INC. REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1 4 5 1 1 2	EACH EACH EACH EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. RELOCATE EXISTING SIGNAL HEAD MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EOUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL REMOVE AND REPLACE ANCHOR BOLTS

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

EACH TRAFFIC SIGNAL POST

INTERCONNECT TO MAPLE AVENUE

ECONOLITE ASC/2S-2100

CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

> TS# 1855 HOMEWOOD

COMPANY: C	OMMONWEALTH EDISON							, 0 0 0
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P. SECTION	COUNTY	TOTAL SHEET SHEETS NO.
J:\13155\60Y42\DGN\CADD Sheets\D160Y4	2-sht-ts-08_1855.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE	2014-044TS	СООК	65 23
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 1 (HALSTED STREET) AT RIDGE ROAD			T NO. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A	ILLINOIS	FED. AID PROJECT	

LLUM. SIGN /IDEO SYSTEM

ENERGY COSTS TO:

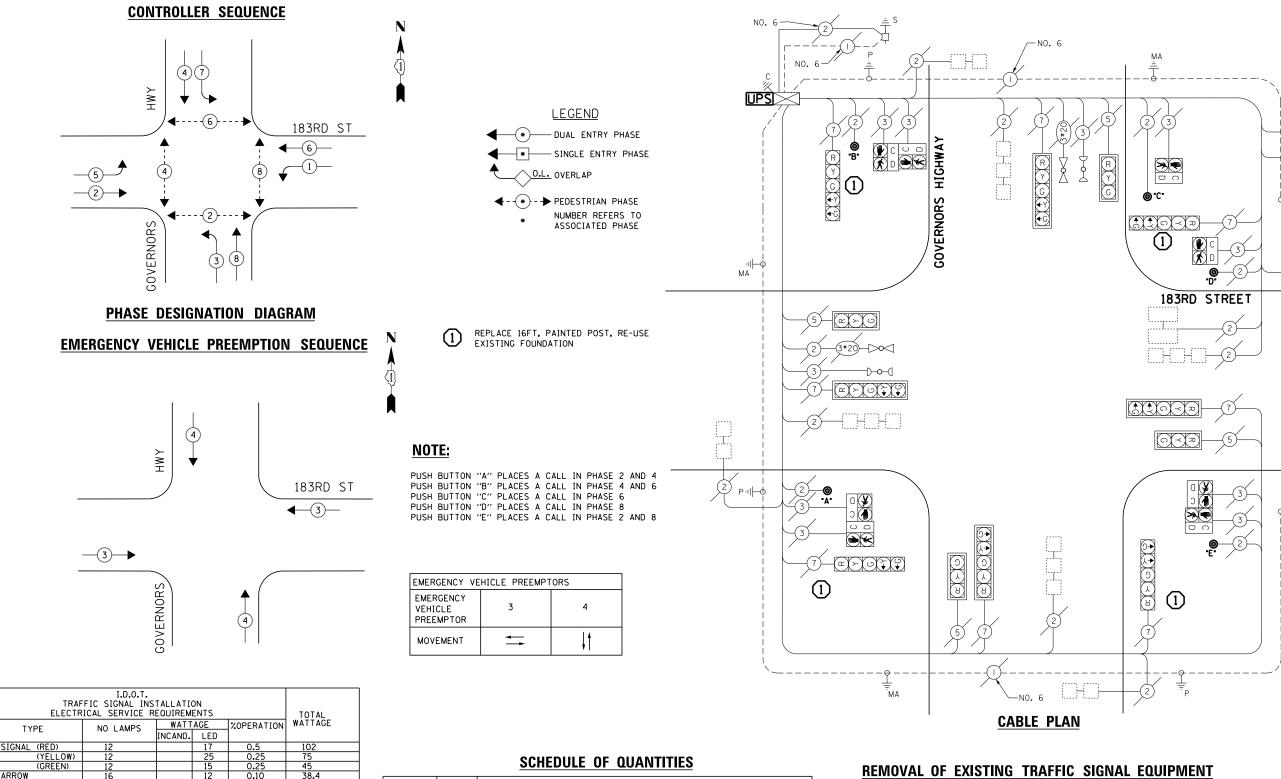
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

PHONE: (708) 235-2692

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

560.4

TOTAL =



QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	EACH	RELOCATE EXISTING SIGNAL HEAD
5	EACH	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
5	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4 EACH TRAFFIC SIGNAL POST 5 EACH PEDESTRIAN PUSH-BUTTON EAGLE EPAC 300 CONTROLLER ON-SITE

RED LIGHT PHOTO ENFORCED

INTERSECTION VENDOR:

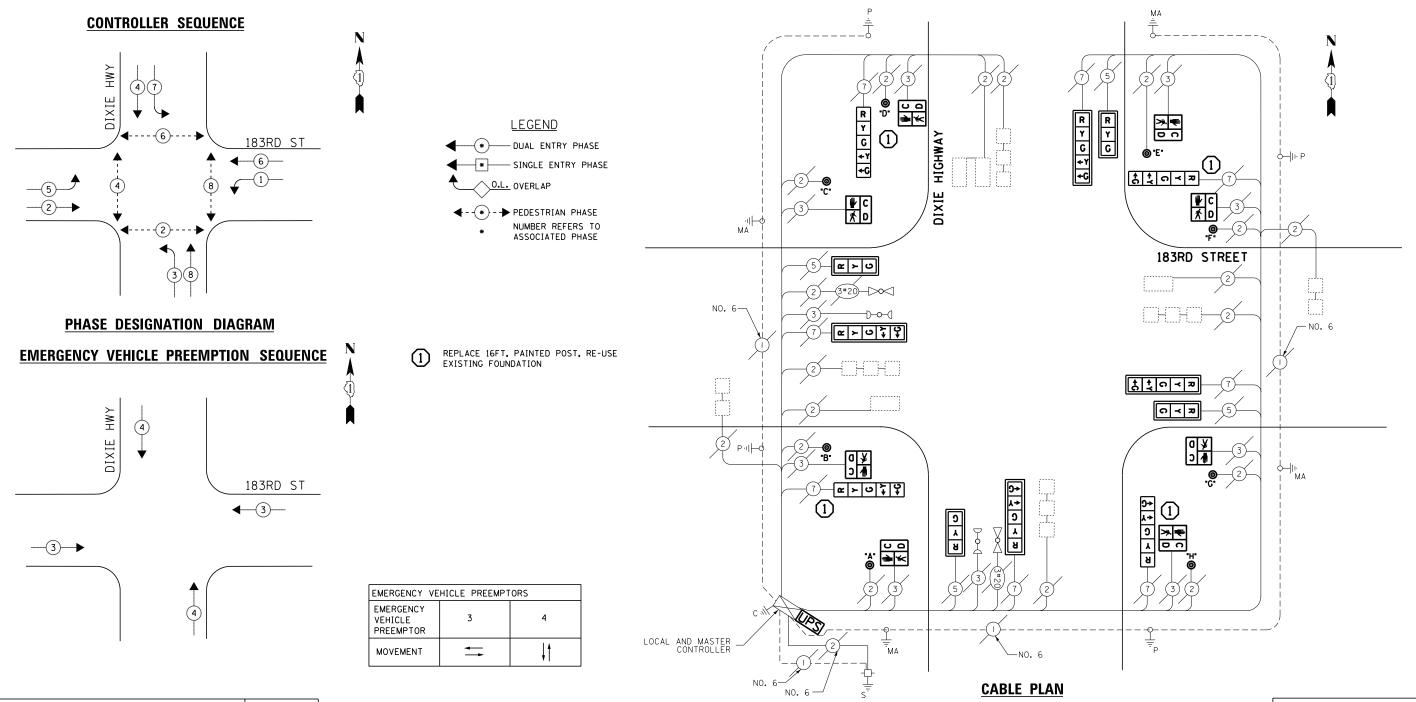
GATSO USA, INC.

- INTERCONNECT TO WESTERN AVENUE

TRAFFIC SIGNAL EQUIPMENT SHALL BE EAGLE TO MATCH THE ADJACENT EXISTING SYSTEM

> TS# 4100 HOMEWOOD

COMPANY: CC	COMPANY: COMMONWEALTH EDISON									
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P. SECTION	COUNTY	TOTAL SHEET		
J:\13155\60Y42\DGN\CADD Sheets\D160Y42	?-sht-ts-09_4100.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE	2014-044TS	СООК	65 24		
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	183RD STREET AT GOVERNORS HIGHWAY			NO. 60Y42		
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A	ILLINOIS	FED. AID PROJECT			



TRAF ELECTR	TOTAL				
TYPE	NO LAMPS	WATT INCAND.			WATTAGE
SIGNAL (RED)	12		17	0.5	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	16		12	0.10	38.4
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	1
VIDEO SYSTEM			-	1.00	•
FLASHER				-	
ENERGY COSTS T	0:			TOTAL =	560.4

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN PHONE: (708) 235-2692

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

### **SCHEDULE OF QUANTITIES**

ı	QUANTITY	UNIT	ITEM
		FACIL	MAINTENANCE OF EVICTING TRAFFIC CIONAL INCTALLATION
	4	EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION   TRAFFIC SIGNAL POST. GALVANIZED STEEL 16 FT.
	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
	4	EACH EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED   SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
	8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
	8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
	8	EACH	PEDESTRIAN PUSH-BUTTON
	1	EACH	MODIFY EXISTING CONTROLLER CABINET
	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
	2	EACH	REMOVE AND REPLACE ANCHOR BOLTS

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

TRAFFIC SIGNAL POST SIGNAL HEAD, 3-SECTION SIGNAL HEAD, 5-SECTION EACH EACH EACH EACH PEDESTRIAN SIGNAL HEAD EACH TRAFFIC SIGNAL BACKPLATE PEDESTRIAN PUSH-BUTTON

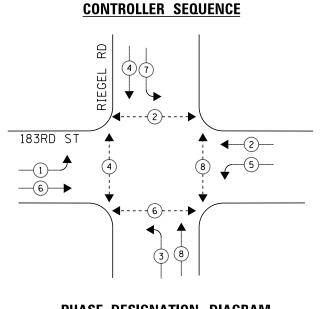
EAGLE EPAC 300 LOCAL CONTROLLER

EAGLE MARC 300 MASTER CONTROLLER

TRAFFIC SIGNAL EQUIPMENT SHALL BE EAGLE TO MATCH THE ADJACENT EXISTING SYSTEM

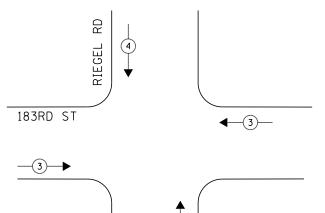
> TS# 11145 HOMEWOOD

	MMONWEALTH EDISON						HOWEWOOD
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P. SEC	TION COUNTY TOTAL SHEET SHEETS NO.
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-10_11145.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE	2014-	-044TS COOK 65 25
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	183RD STREET AT DIXIE HIGHWAY		CONTRACT NO. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. AID PROJECT



### PHASE DESIGNATION DIAGRAM

### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**



WATTAGE COPERATION WATTAGE

TOTAL =

541.2

NCAND. LED

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

TYPE

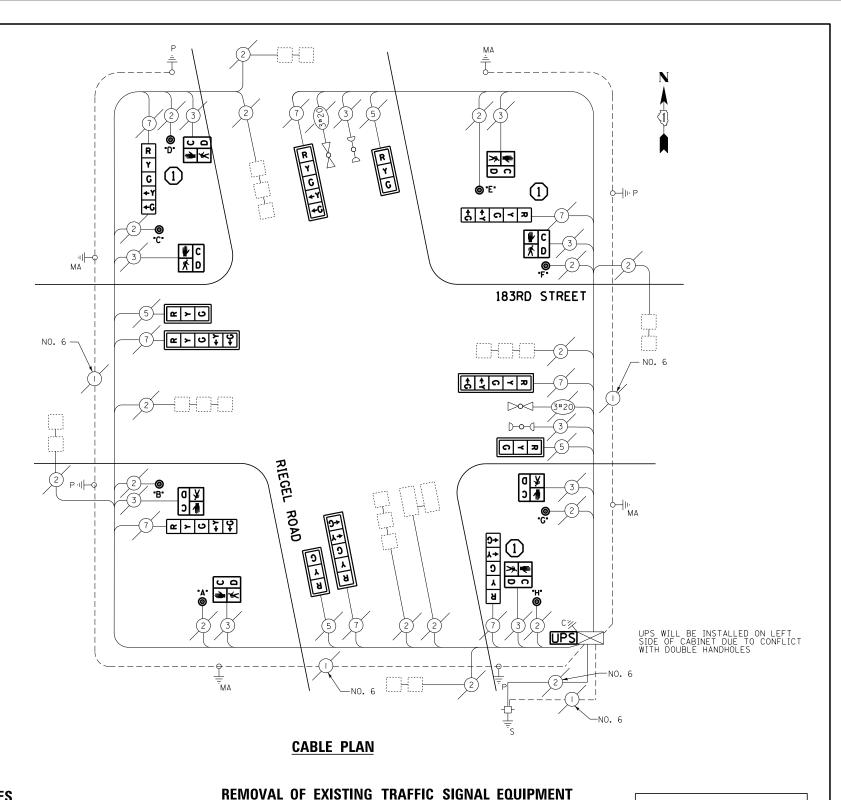
SIGNAL (RED)

LLUM. SIGN /IDEO SYSTEM

ENERGY COSTS TO:

(YELLOW) (GREEN)

EMERGENCY VE	HICLE PREEMPT	ORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<u></u>	↑



### **SCHEDULE OF QUANTITIES**

**LEGEND** 

* SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

REPLACE 16FT, PAINTED POST, RE-USE EXISTING FOUNDATION

* DUAL ENTRY PHASE

O.L. OVERLAP

← - (*) - → PEDESTRIAN PHASE

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

TRAFFIC SIGNAL POST SIGNAL HEAD, 3-SECTION EACH SIGNAL HEAD, 5-SECTION EACH PEDESTRIAN SIGNAL HEAD TRAFFIC SIGNAL BACKPLATE PEDESTRIAN PUSH-BUTTON FACH **FACH** EACH

ECONOLITE ASC/3-2100 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

> TS# 4110 HOMEWOOD

_	08) 235-2692 MMONWEALTH EDISON		EACH REMOVE AND REPLACE	ANCHON BULIS			HOMEWOOD
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P. SECTION	COUNTY TOTAL SHEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-11_4110.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE	2014-044TS	COOK 65 26
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	183RD STREET AT RIEGEL ROAD		CONTRACT NO. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS   SHEET NO. 1 OF 1 SHEETS   STA. N/A TO STA. N/A	ILLINOIS FED	D. AID PROJECT

:\13155\60Y42\DGN\CADD Sheets\D160Y42

ht-ts-12_1830.dan

PLOT DATE = 7/9/2014

DRAWN

DATE

CHECKED

E.C.

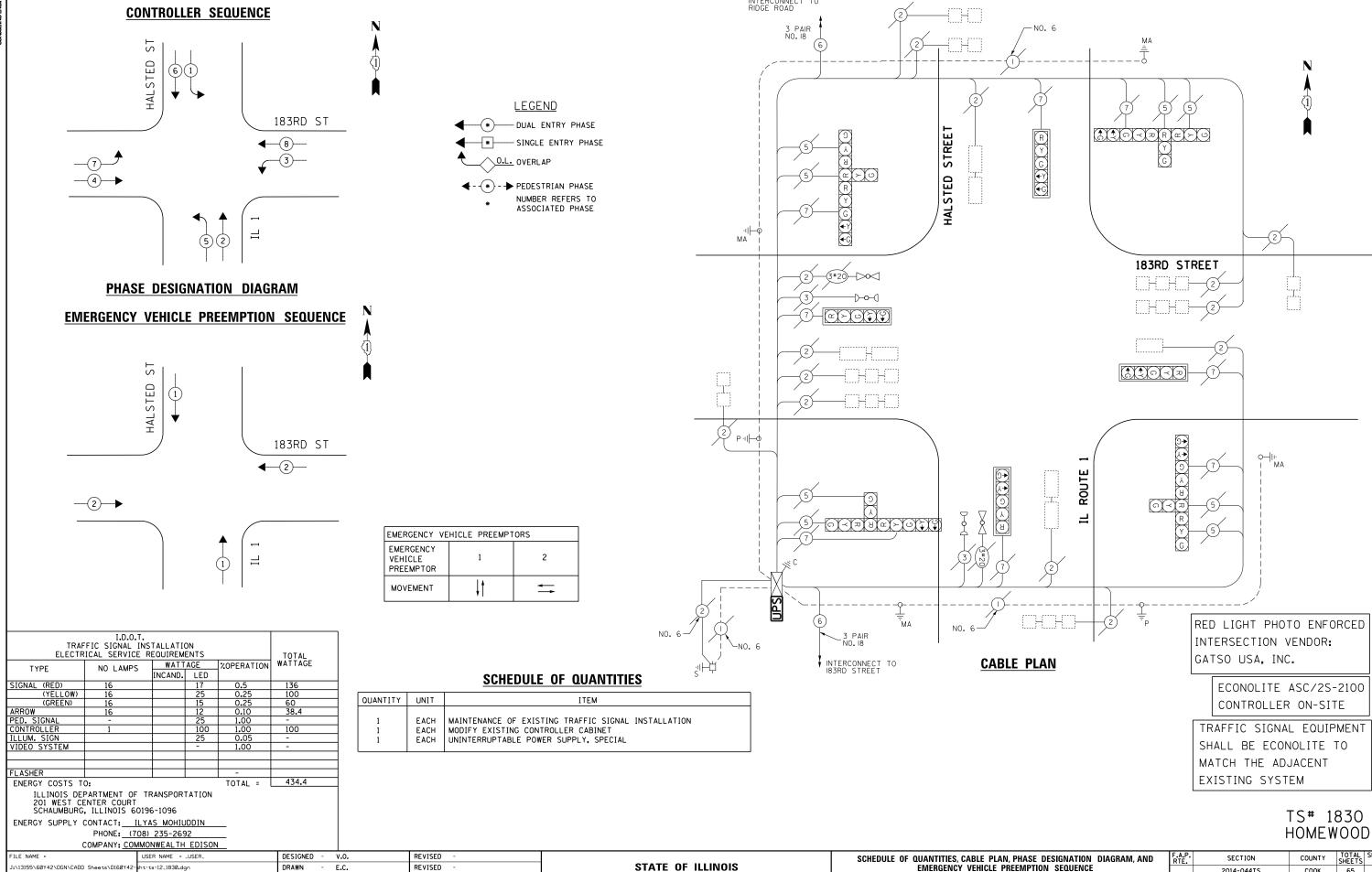
7/11/2014

- I.Y.

REVISED

REVISED

REVISED



**DEPARTMENT OF TRANSPORTATION** 

EMERGENCY VEHICLE PREEMPTION SEQUENCE

IL ROUTE 1 (HALSTED STREET) AT 183RD STREET

SHEET NO. 1 OF 1 SHEETS STA. N/A

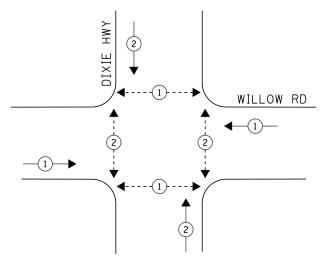
COOK 65 27

CONTRACT NO. 60Y42

2014-044TS

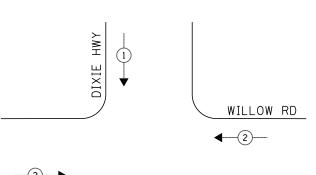


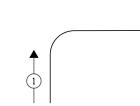




### PHASE DESIGNATION DIAGRAM

### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**



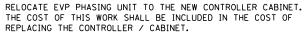


TRAF ELECTR	TOTAL				
TYPE	NO LAMPS	WATT	AGE	%OPERATION	WATTAGE
'''-		INCAND.	LED		
SIGNAL (RED)	12		17	0.5	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	-		12	0.10	
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM			ı	1.00	
FLASHER				-	
ENERGY COSTS TO	0:			TOTAL =	522

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

PHONE: (708) 235-2692
COMPANY: COMMONWEALTH EDISON

## NOTE:



**LEGEND** 

* DUAL ENTRY PHASE

* SINGLE ENTRY PHASE

O.L. OVERLAP

← - (*) - → PEDESTRIAN PHASE

NUMBER REFERS TO ASSOCIATED PHASE

EMERGENCY VE	HICLE PREEMPT	ORS
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	<b>↓</b> †	=

# HIGHWAY DIXIE $\mathbb{C}(\mathbb{R}^n)$ WILLOW ROAD _ MA **CABLE PLAN**

### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1 1 4 1	EACH EACH EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION FULL-ACTUATED CONTROLLER AND TYPE IV CABINET INDUCTIVE LOOP DETECTOR REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

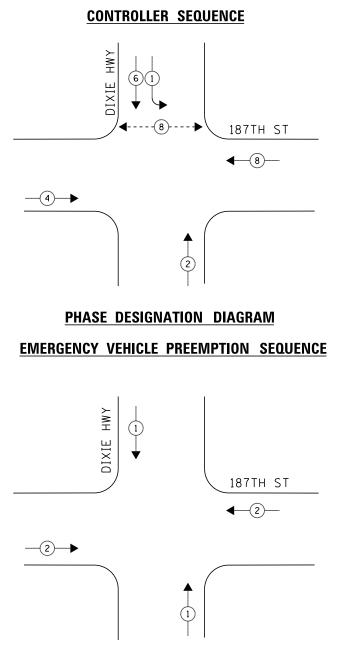
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4 EACH INDUCTIVE LOOP DETECTOR 1 EACH CONTROLLER AND CABINET

> TS# 10745 HOMEWOOD

FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE	OF QUANTITIES, CABLE PLAN, PH	ASE DESIGNA	ATION DIAGRAM, AND	F.A.P.	SECTION	COUNTY	TOTAL SHEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-13_10745.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS		EMERGENCY VEHICLE PREE			****	2014-044TS	соок	65 28
	PLOT SCALE = 20.0000 '/ in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION		DIXIE HIGHWAY AT W	ILLOW ROAD					T NO. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA. N/A	TO STA. N/A		ILLINOIS FED.	AID PROJECT	





### I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS WATTAGE XOPERATION WATTAGE TYPE NO LAMPS INCAND. LED SIGNAL (RED) (YELLOW) (GREEN) ILLUM. SIGN VIDEO SYSTEM

376.8

TOTAL =

FLASHER
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN PHONE: (708) 235-2692 COMPANY: COMMONWEALTH EDISON



### **LEGEND**

* DUAL ENTRY PHASE

* SINGLE ENTRY PHASE O.L. OVERLAP

← - (*) - → PEDESTRIAN PHASE NUMBER REFERS TO ASSOCIATED PHASE



- REPLACE 14FT, PAINTED POST, RE-USE EXISTING FOUNDATION
- REPLACE 16FT, PAINTED POST, RE-USE EXISTING FOUNDATION

### NOTE:

RELOCATE EVP PHASING UNIT TO THE NEW CONTROLLER CABINET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF REPLACING THE CONTROLLER / CABINET.

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	1	2					
MOVEMENT	↓↑	<b>!</b>					

# DIXIE HIGHWA **೧** ≺ ೩ ୯ ≻ ৩ ⊣II—Ó MA (1) NO. 6-187TH STREET **∞** ≻ ∪ ດ ≺ ⊅− ର ≺ ଛ ଝ ≻ ଓ 1 <u>=</u> MA **CABLE PLAN**

®.≫.₩ □ ∩

### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
4	EACH	INDUCTIVE LOOP DETECTOR
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	TRAFFIC SIGNAL POST
9	EACH	SIGNAL HEAD, 3-SECTION
3	EACH	SIGNAL HEAD, 5-SECTION
2	EACH	PEDESTRIAN SIGNAL HEAD
3	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	PEDESTRIAN PUSH-BUTTON
ļ	EACH	INDUCTIVE LOOP DETECTOR
	EACH	CONTROLLER AND CABINET

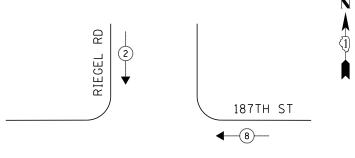
<u>→</u>*<

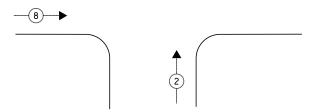
TS# 10730 HOMEWOOD

FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE (	OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P. SECTION	COUNTY	TOTAL	SHEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42	-sht-ts-14_10730.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS		EMERGENCY VEHICLE PREEMPTION SEQUENCE	2014-044TS	соок	65	29
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	187TH STREET AT DIXIE HIGHWAY			CONTRA	ACT NO. 6	OY42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A	ILLINOIS FE	D. AID PROJECT		



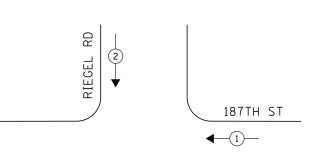
### **CONTROLLER SEQUENCE**

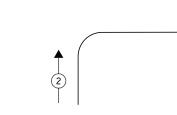




### **PHASE DESIGNATION DIAGRAM**

### EMERGENCY VEHICLE PREEMPTION SEQUENCE





EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	1	2					
MOVEMENT	<b>=</b>	Ų↑					

TRAF ELECTR	TOTAL					
TYPE	NO LAMPS	WATTAGE		%OPERATION	WATTAGE	
111 6	NO LAWI 5	INCAND.	LED			
SIGNAL (RED)	12		17	0.5	102	
(YELLOW)	12		25	0.25	75	
(GREEN)	12		15	0.25	45	
ARROW	•		12	0.10	1	
PED. SIGNAL	-		25	1.00	1	
00117001170			400	4.00	100	

PED. SIGNAL - 25 1.00 CONTROLLER 1 100 1.00 100
ILLUM. SIGN 25 0.05 VIDEO SYSTEM - 1.00 
FLASHER - 1.00 ENERGY COSTS TO: TOTAL = 322

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN
PHONE: (708) 235-2692

# SCHEDULE OF QUANTITIES

**LEGEND** 

--- SINGLE ENTRY PHASE

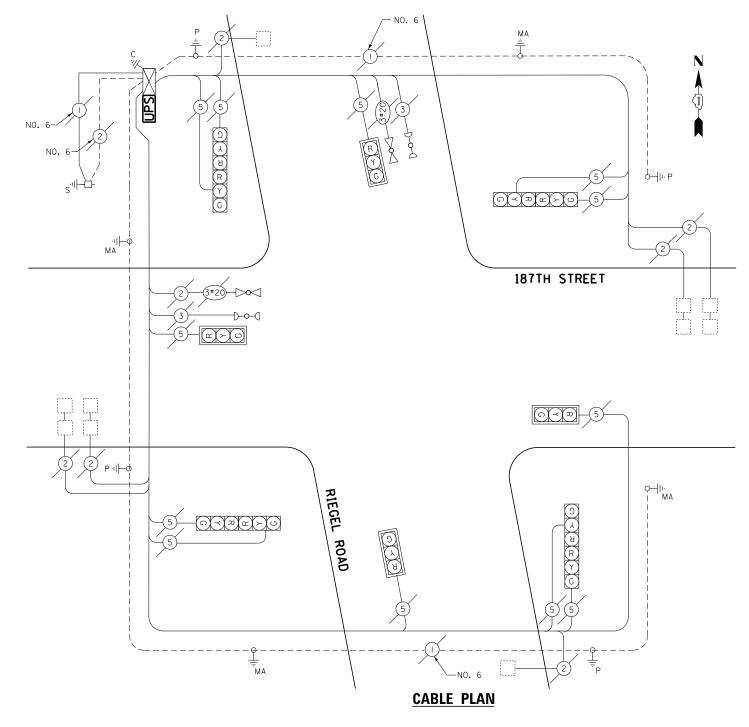
NUMBER REFERS TO ASSOCIATED PHASE

* DUAL ENTRY PHASE

O.L. OVERLAP

← - (*) - → PEDESTRIAN PHASE

		<u> </u>
QUANTITY	UNIT	ITEM
1 1 1	EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL

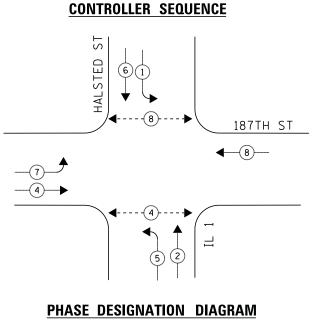


ECONOLITE ASC/3-1000 CONTROLLER ON-SITE

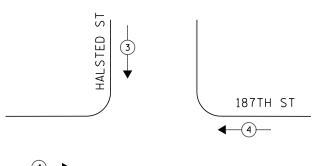
TRAFFIC SIGNAL EQUIPMENT
SHALL BE ECONOLITE TO
MATCH THE ADJACENT
EXISTING SYSTEM

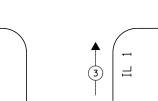
TS# 10735 HOMEWOOD

COMPANY: COMMONWEALTH EDISON COUNTY TOTAL SHEETS NO. COOK 65 30 DESIGNED - V.O. REVISED SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SECTION COUNTY STATE OF ILLINOIS J:\13155\60Y42\DGN\CADD Sheets\D160Y42 nt-ts-15_10735.dgn DRAWN E.C. REVISED EMERGENCY VEHICLE PREEMPTION SEQUENCE 2014-044TS 187TH STREET AT RIEGEL ROAD CHECKED - I.Y. REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60Y42 DATE SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A PLOT DATE = 7/9/2014 7/11/2014 REVISED



### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**





TRAF ELECTR	TOTAL				
TYPE	NO LAMPS	WATT		%OPERATION	WATTAGE
- · · · -		INCAND.	LED		
SIGNAL (RED)	14		17	0.5	119
(YELLOW)	14		25	0.25	87.5
(GREEN)	14		15	0.25	52 <b>.</b> 5
ARROW	12		12	0.10	14.4
PED. SIGNAL	4		25	1.00	100
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	-
VIDEO SYSTEM			-	1.00	1
FLASHER				-	
ENERGY COSTS T	0:			TOTAL =	473.4

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096 ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN PHONE: (708) 235-2692 COMPANY: COMMONWEALTH EDISON

### **LEGEND**

* DUAL ENTRY PHASE * SINGLE ENTRY PHASE

O.L. OVERLAP

← - (*) - → PEDESTRIAN PHASE NUMBER REFERS TO ASSOCIATED PHASE

- REPLACE 14FT, PAINTED POST, RE-USE EXISTING FOUNDATION
- REPLACE 16FT, PAINTED POST, RE-USE EXISTING FOUNDATION

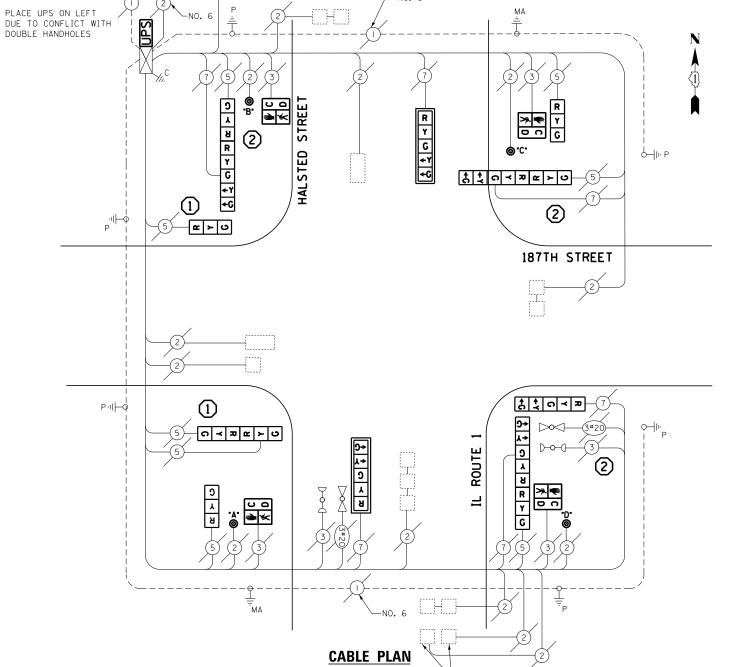
### NOTE:

RELOCATION OF EVP WILL BE INCLUDED IN THE COST OF REPLACING THE TRAFFIC SIGNAL POST.

EMERGENCY VE	HICLE PREEMPT	ORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>↓</b> ↑	<b>+</b>

### SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS



### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

TRAFFIC SIGNAL POST EACH SIGNAL HEAD, 3-SECTION SIGNAL HEAD, 5-SECTION EACH PEDESTRIAN SIGNAL HEAD EACH TRAFFIC SIGNAL BACKPLATE EACH PEDESTRIAN PUSH-BUTTON

ECONOLITE ASC/2S-2100 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

> TS# 1840 HOMEWOOD

FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE 0	OF QUANTITIES, CABLE PLAN, PH	ASE DESIGNATION DIAGR	AM, AND	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-16_184 <b>0.</b> dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS		EMERGENCY VEHICLE PREE				2014-044TS	соок	65	31
	PLOT SCALE = 20.0000 '/ in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION		IL ROUTE 1 (HALSTED STREE	.,				CONTRACT	T NO. 6	)Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA. N/A TO STA.	N/A		ILLINOIS FED. A	ID PROJECT		

DESIGNATION DIAGRAM, AND N SEQUENCE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2014-044TS	СООК	65	31
187TH STREET			CONTRACT	NO. 6	0Y42
NIZA TO CTA NIZA					



### **CONTROLLER SEQUENCE**

PHASE		20	2+5				2	16			4	18		
MOVEMENT	4		2 6				2	6			=	1 3 *		FLAS
INTERVAL	1	2	3	40	4Ь	5*	6	7a	7b	8	9	100	ЮЬ	Н
CHANGE TO	N		2+6	4	+8	/		4	18			21	6	
NB. WILLIAMS STNR., MA, FL. SISHMLS	R	R	R	R	R	G	G	Υ	R	R	R	R	R	R
S.B. WILLIAMS ST N.P. SIGNAL	6	G	G	Υ	R	G	G	Y	R	R	R	R	R	R
S.R. WILLIAMS STM.A., FL. SIGNALS	G +-G	G +-G	G + Y	Y	R	G	G	Y	R	R	R	R	R	R
E.B. ELEANON ST N.R. ER., FL. SIGNALS	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
W.B. ELEANOR STN.R., M.A., F.L. SIGNALS	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
PEDESTRIAN CROSSING: ELEANOR ST. ON PAST SDE OF WILLIAMS ST.	DW	DW	DW	OW	OW	ŵ	ĎŴ	DW	DW	DW	DW	DW	DW	Ů.
PEDESTRIAN CROSSING: ELEANOR ST. ON	ŵ	Ďŵ	DW	DW	DW	.0	Ďŵ	DW	DW	DW	DW	DW	DW	DA
PEDESTRIAN CROSSING: WILLIAMS ST. ON SOUTH SIDE OF ELEANOR ST.	DW	DW	DW	DW	DW	DW	100000	20000	100000		ĎŴ		85.5-5	R
PEDESTRIAN CROSSING: WILLIAMS ST. ON NORTH SIDE OF ELEANOR ST.	DW	DW	DW	DW	DW	DW	DW	DW	DW	ŵ	ĎW	DW	DW	

	I.D.O.T. FFIC SIGNAL INS RICAL SERVICE R				TOTAL
TYPE	NO LAMPS	WATT	AGE	%OPERATION	WATTAGE
1112	110 2	INCAND.	LED		
SIGNAL (RED)	12		17	0.5	102
(YELLOW)	12		25	0.25	75
(GREEN)	14		15	0.25	52 <b>.</b> 5
ARROW	4		12	0.10	4.8
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	-
VIDEO SYSTEM			-	1.00	-
FLASHER				-	
ENERGY COSTS TO	0:			TOTAL =	334.3
201 WEST CE	PARTMENT OF TE ENTER COURT ILLINOIS 6019		ration .		

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDUN

### SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1 8 1 8	EACH EACH EACH EACH	MAINTENACE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN PUSH-BUTTON REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

**CABLE PLAN** 

CONNECTION TO THRONTON FIRE DEPARTMENT

INTERCONNECT TO WILLIAMS ST & MARGARET ST

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

8 EACH PEDESTRIAN SIGNAL HEAD 8 EACH PEDESTRIAN PUSH-BUTTON

STREET

WILLIAMS

-CALL DELAY

ECONOLITE ASC/2S-1000 CONTROLLER ON-SITE

**ELEANOR STREET** 

TRAFFIC SIGNAL EQUIPMENT
SHALL BE ECONLITE TO
MATCH THE ADJACENT
EXISTING SYSTEM

TS# 11360 THORNTON

	708) 235-2692 MMONWEALTH EDISON								THOR	RNTO	١N
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		0011501115 0	F CHANTITIFE CARLE BLAN AND BUAGE REGIONATION BIAGRAM	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42	-sht-ts-17_11360.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	2CHEDOLE O	F QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM WILLIAMS STREET AT ELEANOR STREET	1,1.2.	2014-044TS	соок	65	32
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION		WILLIAMS STILLT AT LLLANON STILLT			CONTRAC	CT NO. 1	60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FEF	D. AID PROJECT		



F. A.	SECTION		COUNTY	2407 2407	3940.7 HQ
erosel	05-00146-00-PL		COOK	100	027
STA		- 1	STA.		
70.	4040 DEE. 40. U.M.		AC AC PA	e éta	

CONTRACT NO. ____

# PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATIONS

								EEMPTOR			EVP PRE			RAN	ROÁD PRI	EEMPTOR	NO. 2		
		1		L			No.	3.3	No	0.4	IK.	15	No. of the least of	Wilesperson with				MATERIA CONTRA	
FROM NORMAL INTERVAL		1		5		•			1 11 11										CLEAR TO NORMA
FIREZENERGENCY VEHICLE PREEMPTION INTERVAL			抽。				34	38	48	48	SA	58							SEQUENCE
RALROAD INTERVAL	1A	18	10	10	1E	1F	, 1G	114	1,1	15.	11.	114	2A	28	20	3A	3B	3C	
CHANGE TO	18	24	10	2A	1F	2A.	1H	2A	1,K	2A	IM	2A			3A		NORM	IAL 4+8	
NORTHBOUND WILLIAMS STREET - NEAR RIGHT, MAST ARM, AND FAR LEFT SIGNALS	R	R	, Y	R	R	R	٧	R	٧	R	R	R	R	R	R	G	Y	R	Δ
SCOTHEOUND WILLIAMS STREET - NEAR RIGHT SIGNAL	Y	R	Y	R	R	R	R	R	Y	· R	R	R	· R	R.	R	G	Y.	R	Δ
SOUTHBOUND WILLIAMS STREET-MASTARM, FAR LEFT SKSNAL	Υ	R	Y	R	R	8	R	R	٧	R	R	R	R	R	R	G	Y	R	Δ
EASTBOUND ELEANOR STREET-NEAR RIGHT, FAR RIGHT, FAR LEFT SIGNALS	R	R	R	R	Y	R	R.	R	R	R	· Y	R	R	R	R	R	R	R	-Δ
WESTBOUND ELEANOR STREET - NEAR RIGHT, MAST ARM, FAR LEFT SIGNALS	R	8	R	R	٧	R	R.	R	R	R	Y	R	- G	¥	R	R	R	R	- Δ
PEDESTRIAN CROSSING ÉLEANOR STREET - EAST SIDE OF WILLIAMS STREET	DW	DW	-	DW-	DW	DW	DW	DW	DWI	DW	DW	DW	DW-	DW	DW	DW	DW	DW	Δ
PEDESTRIAN CROSSING ELEANOR STREET- WEST SIDE OF WILLIAMS STREET		DW	-	DW	DW	DŴ	DW	DW	DW	DIN	DW	DW	DW	DW	DW	DW	DW	DW	Δ
PEDESTRIAN CROSSING WILLIAMS STREET - SOUTH SIDE OF ELEANOR STREET	DW	OW	DW	DW		DW	DW	DW	DWI	DW	DW	DW	DW	DW	DW	DW	.DM	DW	Δ
PEDESTRIAN CROSSING WELFAMS STREET- NORTH SIDE OF ELEANOR STREET	DW	DW	DW	DW		DW	DW	DW	DW	DW	. DAVI	DW	DW	DW	DW	DWI	DW	DW	Δ
		-	1													HOLD			

### PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATIONS

					ļ	<u> </u>								FIRE APTOR NO.	EVE PREMPTOR 10.	EVP MPTOR NO.	
ROM NORMAL INTERVAL			1				oran pro	6	الصيما			8 .		RENT	W 7	112	CHEAR TO NORMA
ráilroad mtérval		<b>建制值</b>			(8) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1				ALL SERVICE		278			2	84	9.8	SEQUENCE
EMERGENCY VEHICLE PREEMPTION INTERVAL	1A:	10	ić.	10	4E	1F	1.0	111	-ti	1K	.tL	1M	1N	3	4	5	
CHANGE TO	18	sc.	3 OR 5	1€	4	10	114	3 OR 5	4	1L	114	3 CR 4	5		-		
NORTHBOUND WILLIAMS STREET- NEAR RIGHT. MASTARM, AND FAR LEFT SIGNALS	R	R	R	R	R	Ğ	X.	R	Ģ	R	Ŕ	Ŕ	A	a	é	R	Δ.
SOUTHBOUND WILLIAMS STREET- NEAR RIGHT SIGNAL	4	Y	8	ï6	6	Ģ	¥	R	Ģ	R	В	R	R	Ŗ	Ģ	R	Δ
SOUTHBOUND WILLIAMS STREET- MAST ARM,	0	Y	18	- 0	.,	6	٧	R	٥	R	R	, R	R	R	8	R	Δ
EASTBOUND ELEANOR STREET: NEAR RIGHT, FAR RIGHT, FAR LEFT SIGNALS	R-	R	R	В	R	R	R	R	R	9	¥.	R	6	R	R	.6.	Δ
WESTBOUND ELEANOR STREET: NEAR RIGHT; MASTARM, FAB LEFT SIGNALS	R	R	8	R	R	R	R	R	R	9	Y	R	. 0	R	R	-0-	Δ
PEÓESTRIAR GROSSING ELEANGR STREET EAST-SIDE OF WILLIAMS STREET	òŵ	pier	ÓW	DW	DW		-DW	provi		DW	DWI	ĎW	bw	DW	DW	Di#	Δ
PEDESTRUM CROSSING ELEANOR'S INEET - WEST SIDE OF WILLIAMS STREET	- DW	DW	p/w	-bw	DW.	-DW	.bw	DW	**DW/	DW	.om.	DW.	DW	DW	DVK	DW	Δ
PEDESTRIAN CROSSING WILLIAMS STREET	DW	DW	DW	DM	'DW'	D/W	.bw	DIN	DW	~pw	DWI	DW	DW/	DW.	DW	.DW	Δ
PEDESTRIAN CROSSING WILLIAMS STREET- NORTH SIDE OF ELEANOR STREET	DW	DW	DW	DM.	DW.	DW	-DW	DW	DW	-0w	DW	DW	-DW	DW-	DW	DIW	Δ
PEDESTRIAN CROSSING WILLIAMS STREET- NORTH SIDE OF ELEANOR STREET	DW	DW	DW	DW	DW.	DW	-DW	DW	DW	-ow	DAA	DW	"DW	DW	DW	DIM	

### NOTE

- 1. * "WALK" SHALL APPEAR ONLY UPON PUSHBUTTON ACTIVATION
- 2. **- FLASHING "DON'T WALK" SHALL TERMINATE AT THE COMPLETION OF
- 3. ***- FLASHING "DON'T WALK SHALL TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL," PRIOR TO THE DISPLAY OF YELLO PHASES.
- IF RAUROAD PREEMPTION OCCURS DURING A "WALK" INTERVAL, THE WAL INTERVAL SHALL CLEAR WITH RESPECT TO THE NORMAL SEQUENCE.
- 5. IF FIRE OR EMERGENCY VEHICLE PREEMPTION OCCURS DURING A "WALK" INTERVAL, THE WALK INTERVAL SHALL CLEAR WITH RESPECT TO THE NORMAL SEQUENCE.
- EMPROENCY VEHICLE SEQUENCE SHALL PROVIDE PROPER CLEARANCE TO RESIDUE THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERNAL TO DEPLAY A DIFFERENT EMPROENCY VEHICLE INTERNAL AFTER FIRE PRESENTION (F APPLICABLE) OR EMPROENCY VEHICLE INTERNALS, J. 4, OR 5. IS TERMINATED.
- A RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO DISPLAY A FIRE PREEMPTION OR EMERGENCY VEHICLE INTERVAL OF APPLICABLE AFTER RAILROAD PREEMPTION INTERVAL 2.5 ITERMINATED.

### NOTE

★ 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING ENERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDUL OF QUANTITIES ALL OTHER FOLLENBENT SHAWN SHALL BE DISSECTED.

### VILLAGE OF THORNTON LOCATION NO. 95

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS
NAME
DATE
ADDED BY PREDAPTION 11/807

* ADDED BY PREDAPTION 11/807

** CAUSE VERT.

SCAUSE VERT.

DRAWN BY MRS

FIGURE TO THE PROPERTY OF THE TOP OF THE PROPERTY OF THE PROPE

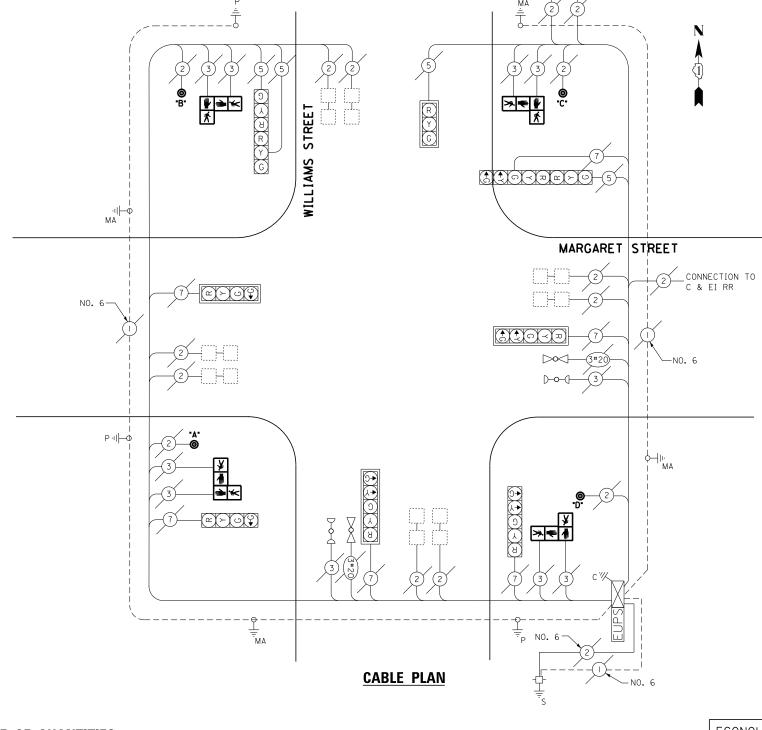
TS# 11360 THORNTON

FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		R	RAILROAD PREEMPTION SEQUENCE OF OPERATION AND	F.A.P.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-18_1136 <b>0.</b> dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS		EMERGENCY VEHICLE PREEMPTION SEQUENCE	,,, <b>_</b>	2014-044TS	соок	65 33
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION		WILLIAMS STREET AT ELEANOR STREET				NO. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. AI		



### **CONTROLLER SEQUENCE**

PHASE		, partir	2+5				2	ł6 .			4	+8		
MOVEMENT			2 5				2	6				8		F L A
INTERVAL	. 1	2	3	40	46	5*	6	70	7h	А	٩	IOa	ЮЬ	H
CHANGE TO			2+6	. 4	18			4	8			21	5	
N.B. WILLIAMS STN.R., M.A., F.L. SIGNALS	R	R	R	R	R	G	G	Y	R	R	R	R	R	R
S.B. WILLIAMS STN.R. SIGNAL	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R
S.B. WILLIAMS STM.A., F.L. SIGNALS	G 4-G	G + G	G ≠Y	Y	R	G	G	Υ	R	R	R	R	R	R
E.B. ELEANOR STN.R.ER., FL. SIGNALS	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
WO ELEANOR ST-RR,MA,FL GONALS	R	R	п	R	R	n	n	R	n	c	c	Ÿ	R	n
PEDESTRIAN CROSSING: ELEANOR ST. ON EAST SIDE OF WILLIAMS ST.	DW	DW	OW	DW	DW	ŵ	ĎŴ	DW	DW	DW	DW	DW	DW	Ī
PEDESTRIAN CROSSING: ELEANOR ST. ON WEST SIDE OF WILLIAMS ST.	¥	ĎŴ	DW	DW	DW	ŵ	ĎŴ	DW	DW	DW	DW	DW	DW	DA
PEDESTRIAN CROSSING: WILLIAMS ST. ON SOUTH SIDE OF ELFANOR ST.		DW	ow	DW	DW	DW	DW	DW	DW	ŵ	Ď₩	DW	DW	R
PEDESTRIAN CROSSING: WILLIAMS ST. ON NORTH SIDE OF ELEANOR ST.	DW.	DW	ΟW	DW.	DW	DW	DW	DW	DW	ŵ.	Ď₩	DW	DW	



	I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS											
TYPE	NO LAMPS	WATT	AGE	%OPERATION	WATTAGE							
''''	NO LAWI S	INCAND.	LED									
SIGNAL (RED)	10		17	0.5	85							
(YELLOW)	10		25	0.25	62.5							
(GREEN)	12		15	0.25	45							
ARROW	8		12	0.10	9.6							
PED. SIGNAL	-		25	1.00	-							
CONTROLLER	1		100	1.00	100							
ILLUM. SIGN			25	0.05	-							
VIDEO SYSTEM			-	1.00	•							
FLASHER				-								
ENERGY COSTS TO	0:			TOTAL =	302.1							

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDUN
PHONE: (708) 235-2692
COMPANY: COMMONWEALTH EDISON

### SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1 1 4 4	EACH EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED PEDESTRIAN PUSH-BUTTON, NON-LATCHING

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

CONNECTION TO THORNTON FIRE DEPARTMENT

INTERCONNECT TO WILLIAMS STREET & ELEANOR STREET

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

8 EACH PEDESTRIAN SIGNAL HEAD 4 EACH PEDESTRIAN PUSH-BUTTON ECONOLITE ASC/2S-1000 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT
SHALL BE ECONOLITE TO
MATCH THE ADJACENT
EXISTING SYSTEM

TS# 11355 THORNTON

	COIVII AITT COIV	MONTE ALTH EDISON										
FI	LE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		0011501115 0	OF CHARTITIES CARLE BLAN AND BUACE DECIDINATION DIAGRAM	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET
J:	\13155\60Y42\DGN\CADD Sheets\D160Y42-	ht-ts-19_11355.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	2CHEDOLE O	OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM MARGARET STREET AT WILLIAMS STREET		2014-044TS	соок	65	34
		PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION		MANGANET STILLET AT WILLIAMS STILLET			CONTRACT		OY42
L		PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. A			

# PROPOSED RAILROAD PREEMPTION

		,	,		,		SEC	NENC	EOFO	PERAT	IONS											A12 175 - 1
					-		<u> </u>		<u> </u>		EEMPTOR 0.3	EVP PRE			EEMPTOR D. 5		RAIL	ROAD PE	EEMPTOR	10. 2		
		-	ļ	1	<u></u>	1	i .		1	NOW HER WASH	o. 3 Marie de la composición	Seal Seal Seal Seal Seal Seal Seal Seal	e, 4 ENVIOLENCE	AND DESCRIPTION	O, D	000000000000000000000000000000000000000	Number		manual contra	Sentines.	Tilania (Tilania)	1
	RMAI. INTERVAL		1		5	1	8		12													
NTERVAL	RGENCY VEHICLE PREEMPTION									ЗА	36	4A	45	5A	58							SEQUENCE
KARROAL	NTERVAL.	1A	18	1C	10	1E	1F	16	111	1,5	1K	1L	116	111	1P	2A	28	2¢	- 3A	38	3C	
CHANGE TO		18	2A	10	2A	Œ	2A	111	2A	18	2A	166	2A	ip	2A			34		NORM	AL 4+B	
	UND WILLIAMS STREET - NEAR RIGHT, 4, AND FAR LEFT SIGNALS	R	R	Y	R	R	R	R	R	R	R	Y	R	`R	R	R	R	R	G	Y	R	Δ
SIGNAL	UND WILLIAMS STREET - NEAR RIGHT	Y	R	Y	R	R	R	R	R	Y	R	Y	R	R	R	R	R	R	G	Y	R	Δ
SOUTHBO FAR LEFT	UND WILLIAMS STREET - MAST ARM, SKWAI	Y	R	Y	R	R	R	R	R	Y	R	Y	R	R	R ·	R	R	R	G	¥	R	Δ
EASTBOU SIGNAL	ND MARGARET STREET-NEAR RIGHT	R	R	R	R	Y	R	Y	R	R	R	R	R	Y	R	Ŕ	R	R	R	R	R	Δ
ASTROU	ND MARGARET STREET - MAST ARM, SKHALS	R	R	R	R	Y	R	Y	R	R	R	R	R.	٧	R	R	R	R	R	В	R	Δ
	NO MARGARET STREET - NEAR RIGHT. I, ERONT LEFT SIGNALS	R	E	R	R	R	R	Y	R	R	R	R	R	Y	8	6	Y	R	R	R	R	Δ
	AN CROSSING MARGARET STREET-	DW	DW		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	Δ
EDESTR VEST SID	AN CROSSING MARGARET STREET- E OF WILLIAMS STREET		DW -		DW.	DW	DW	DW	OW	DW	DW	DW	ÓM	DW.	DW	DW	DW	DW	DW.	DWL	DWI	Δ
PEDESTRIAN CROSSING WILLIAMS STREET- SOUTH SIDE OF MARGARET STREET		DW	DM	DW	DW	-	OW		DAN	ow	DW	DW	DW	DW	DW	DW .	DW	DW	DW	OW	DW	Δ
PEDESTR	AN CROSSING WILLIAMS STREET - DE OF MARGARET STREET	DW	DW	DW	DW	DW	DAV		DW	DW	DW	DW	DWJ	DW	DW.	DW.	DW	DW	DW	DW	OW	Δ
proseden.																			HOLD			

# PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATIONS

																				OR NO.	OR NO.	CS NO.	
FROM NORMALINIERVAL				1.					5.				8			, ,		12		E TAN	WENT 4	EMPT	
RAILROAD INTERVAL																	Mark M			PRE	PARE	PRE	CLEAR TO NORMA SEQUENCE
EMERGENCY VEHICLE PREEMPTION INTERVAL	1A	18	-jc	10	18	10	10	УH	J.	яk.	1L	1NX	114	1P	10	1R	75	17	10	-		5	
CHANGE TO	3	10	4	1E	1F	5	316	u	30R5	4	114	111	3 QR 4	10	6	16	47.	3 OR 4	6.	3	4	2	
NORTHBOUND WILLIAMS STREET - NEAR RIGHT, MAST ARM, AND FAR LEFT SIGNALS	R	B	R	8.	R	R.	9	'Y	B		#	. R	R	R	R	В	8	Rj.	· A		. 6	Ř.	Δ
SOUTHDOUND WILLIAMS STREET- NEAR RIGHT SIGNAL	0	G	6		٧.	R		٧	R	0	R	Ŕ	R	R	R	R	R	R	Ř	. 0	0	R	Δ
SOUTHBOUND WILLIAMS STREET- MAST ARM, FAR LEFT SIGNAL	+ ŏ	-0	Y		Υ.	R	0	Υ	R	a	R	R	R	R	R	R	. R	R ·	R	6	6	R	Δ
eastbound margaret street-neas right Signal	k	R	В	В.	8	R	R	R	R	R	6	Y	Ř	·G:	Ģ.	4	٧	Ř	G	R	В	G.	Δ
EASTROUND MARGARET STREET-MAST ARM FAR LEET SIGNALS	nţ	ic.	. 4	6.	R	Ŗ	В	Ŗ	R	Ħ	- G.	Y	R	+ 6	Y	4	γ	B		8	R	G	Δ
WESTBOUND MARGARET STREET: NEAR RIGHT, MAST ARM, FRONT LEPT SIGNALS	R	R	R	R	R	R	R	R°	R	R	R	R	R	R	R	6	Ψ.	R	•	R	R	6	Δ
PEDESTRIAN CROSSING MARGARET STREET- EAST SIDE OF WILLIAMS STREET	DW	-DW	DIA	,pw:	G.M.	DWK	DW	DWC	. DW	~DW	DW.	DIME	DW.	,DW	DW	DW:	DW	.DW	DW	DW	diet.	DW	Δ:
PEDESTRIAN EROSSING MARGARET STREET - WEST SIDE OF WILLIAMS STREET.	DW	*****	più	**DW	6w	Dist	OW	.Dwy	òw	~pw.	pw.	DIM	ów.	DW:	DW	Dyk	DW	DW	DV9	DW	D/m²	DIW	Δ
PEDESTRIAN CROSSING WILLIAMS STREET SOUTH SIDE OF MARGARET STREET	Disk	,Drer	. DW	DW	DIN	.bim.	DW	·DW .	₽₩	DW	mp@g	DW	DIN	**btw	DW	**ow	DW	DNW	"DW	Dyx	pier.	Dev	Δ
PEDESTRIAN CROSSING WILLIAMS STREET- NORTH SIDE OF MARGARET STREET	DW.	*	ow	'bur	DW	· ow	sw.	·pw	DW	DAM	0W	ow.	ow	ów	sw.	ow-	ow	'bw	-0~	DW.	puir .	DW	Δ

### NOTE

1. * - "WALK" SHALL APPEAR ONLY UPON PUSHBUTTON ACTIVATION.

2. **- Flashing "don't walk" shall terminate at the completion of the pedestrian clearance interval.

- RALROAD PREBAPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO DISPLAY A FIRE PREEMPTION OR CHARGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RALROAD PREEMPTION INTERVAL 2 IS TERMINATED.

VILLAGE OF THORNTON LOCATION NO. 94

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD
REVISIONS
NAME DATE
ADDED BY PREEMPTION 11/8/07. ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATIONS WILLIAMS STREET & MARGARET STREET

SECTION COUNTY WAR

CONTRACT NO. _

TS# 11355 THORNTON

FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		F	RAILROAD PREEMPTION SEQUENCE OF OPERATION AND	F.A.P.	SECTION	COUNTY SHEETS	
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-20_11355.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS		EMERGENCY VEHICLE PREEMPTION SEQUENCE		2014-044TS	COOK 65	35
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION		MARGARET STREET AT WILLIAMS STREET			CONTRACT NO. 6	0Y42ء
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. AII	D PROJECT	

(YELLOW) (GREEN)

LLUM. SIGN /IDEO SYSTEM

FLASHER
ENERGY COSTS TO:

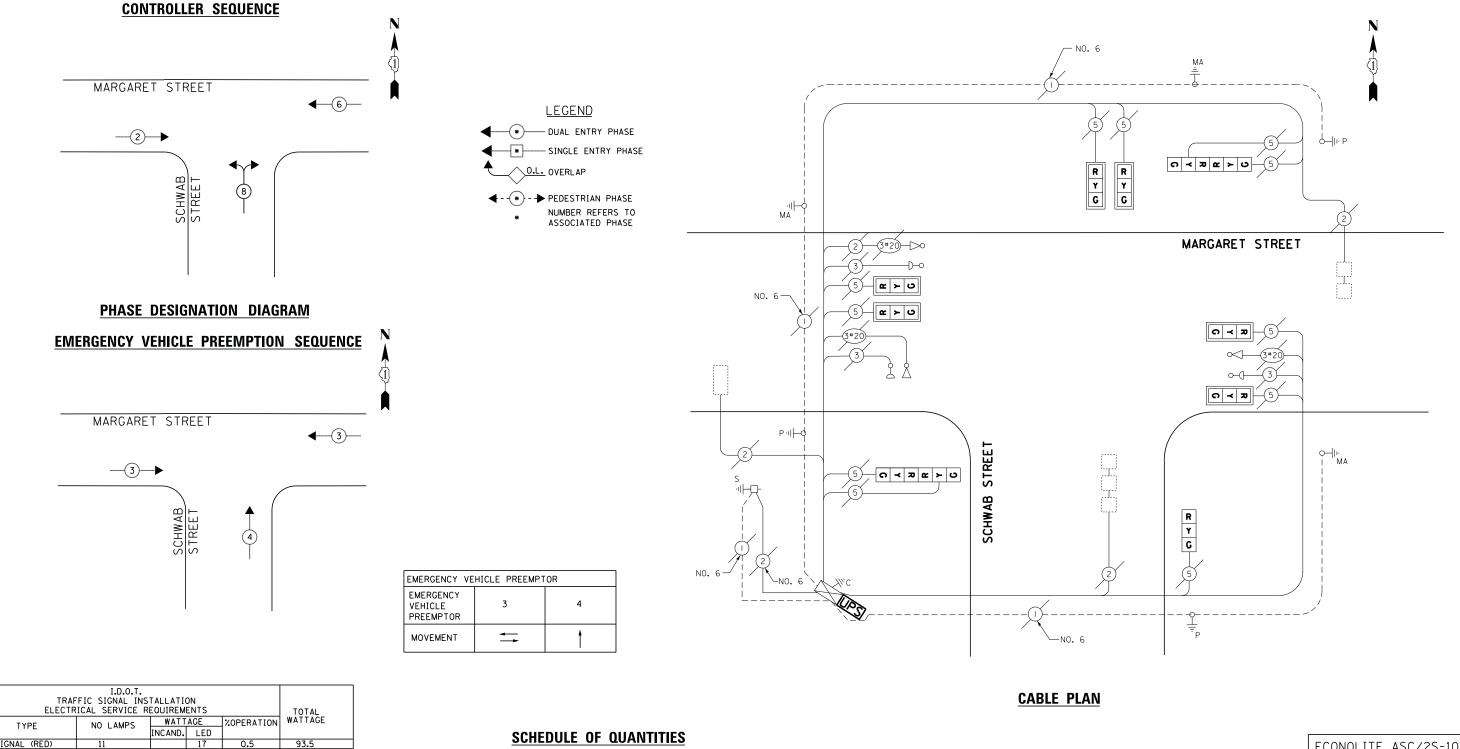
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

PHONE: (708) 235-2692

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDUN

303.5

TOTAL =



### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1 1 1 1 6 2	EACH EACH EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED, RETROFIT SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT

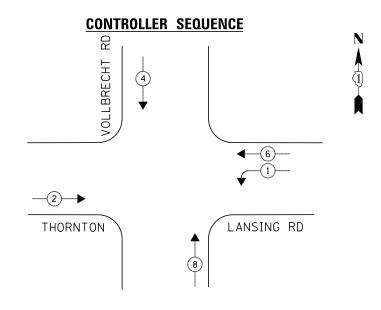
ECONOLITE ASC/2S-1000 CONTROLLER ON-SITE

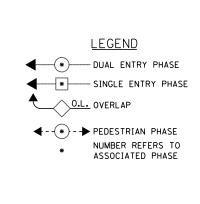
TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

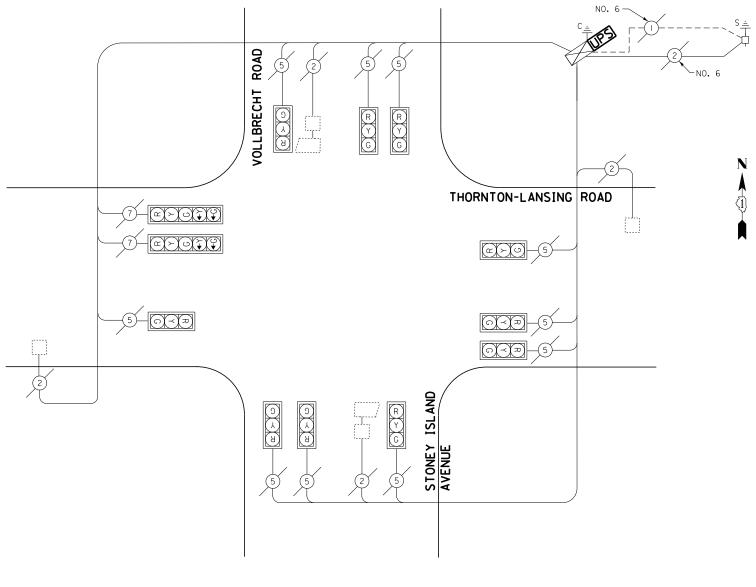
TS# 11356 THORNTON

	MONWEALTH EDISON							1110111	11011
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-21_11356.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE		2014-044TS	соок	65 36
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	MARAGRET STREET AT SCHWAB STREET				T NO. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FE	D. AID PROJECT	









#### **CABLE PLAN**

# | I.D.O.T. | TRAFFIC SIGNAL INSTALLATION | ELECTRICAL SERVICE REQUIREMENTS | TOTAL | WATTAGE | W

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

#### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1 1 1	EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL

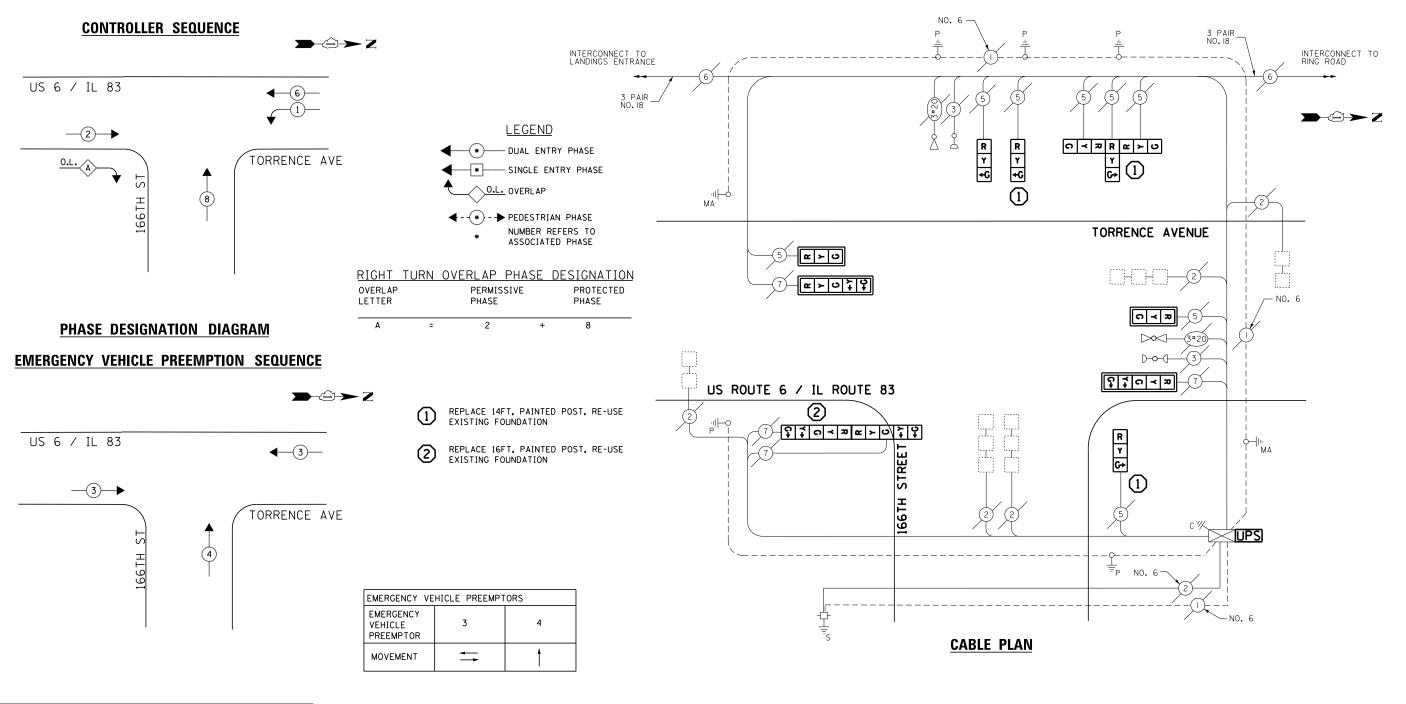
ECONOLITE ASC/2-2100 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT
SHALL BE ECONOLITE TO
MATCH THE ADJACENT
EXISTING SYSTEM

TS# 3519 THORNTON / LANSING

	MONWEALTH EDISON								_	THORNTON	/ LANS	SING
FILE NAME =	USER NAME = _USER_	DESIGNED - V.C	o <b>.</b>	REVISED -		COUEDINE	DE QUANTITIES CADIF BLAN AN	ID DUACE DECICNATION DIACRAM	F.A.P.	SECTION	COUNTY SH	OTAL SHEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	ht-ts-22_3519.dgn	DRAWN - E.C	2.	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM THORNTON /LANSING ROAD AT VOLBRECHT ROAD				2014-044TS	соок	65 37
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y	·•	REVISED -	DEPARTMENT OF TRANSPORTATION		THORITON / EARONG HOAD	AT VOLDILLOTT HOAD			CONTRACT N	NO. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/	11/2014	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA. N/A TO STA. N/A		ILLINOIS FED.	AID PROJECT	





	I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO LAMPS	WATT	AGE	%OPERATION	WATTAGE				
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	INCAND.	LED						
SIGNAL (RED)	12		17	0.5	102				
(YELLOW)	12		25	0.25	75				
(GREEN)	12		15	0.25	45				
ARROW	8		12	0.10	9.6				
PED. SIGNAL	-		25	1.00	-				
CONTROLLER	1		100	1.00	100				
ILLUM. SIGN			25	0.05	-				
VIDEO SYSTEM			-	1.00	-				
FLASHER				-					
ENERGY COSTS T	0:			TOTAL =	331.6				

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: <u>ILYAS MOHIUDDIN</u>
PHONE: (708) 235-2692
COMPANY: COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

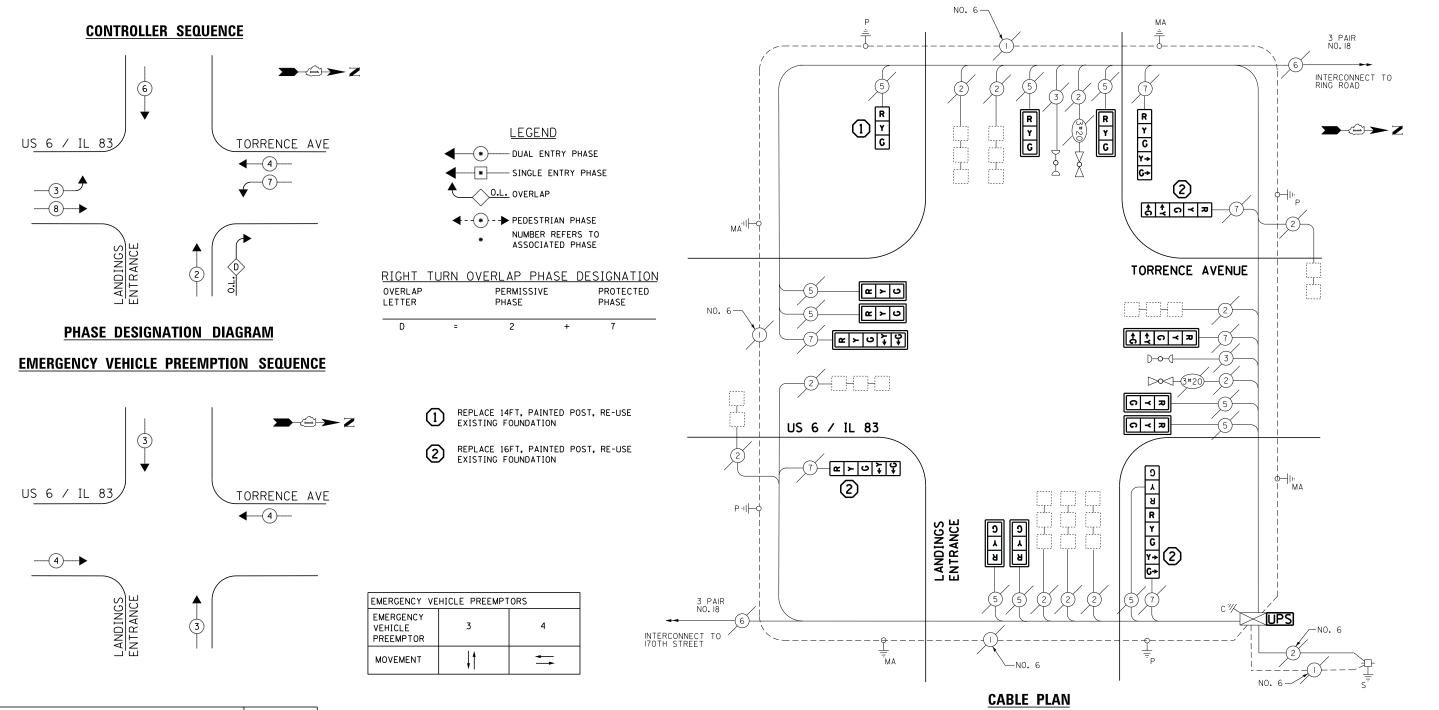
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

8 EACH SIGNAL HEAD, 3-SECTION 4 EACH SIGNAL HEAD, 5-SECTION 4 EACH TRAFFIC SIGNAL POST ECONOLITE ASC/2S-2100 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT
SHALL BE ECONOLITE TO
MATCH THE ADJACENT
EXISTING SYSTEM

TS# 20955 LANSING

FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P.	SECTION		TOTAL S	SHEET		
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-23_20955.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS		EMERGENCY VEHICLE PREEMPTION SEQUEN	NCE	1112.	2014-044TS	соок	65	38
	PLOT SCALE = 20.0000 '/ in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	US ROUTE 6 /IL	ROUTE 83 (TORRENCE AVENUE) AT 166TH STR	EET /FIELDCREST DRIVE			CONTRACT		)Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS STA. N/A	TO STA. N/A		ILLINOIS FED. AID	PROJECT		



	I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO LAMPS	$\overline{}$		%OPERATION	WATTAGE					
		INCAND.								
SIGNAL (RED)	16		17	0.5	136					
(YELLOW)	16		25	0.25	100					
(GREEN)	16		15	0.25	60					
ARROW	12		12	0.10	14.4					
PED. SIGNAL	-		25	1.00	-					
CONTROLLER	1		100	1.00	100					
ILLUM. SIGN			25	0.05	-					
VIDEO SYSTEM			-	1.00	-					
FLASHER				-						
ENERGY COSTS TO	0:			TOTAL =	410.4					
201 WEST CE	PARTMENT OF TR ENTER COURT , ILLINOIS 60196		TATION							

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

PHONE: (708) 235-2692

#### SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

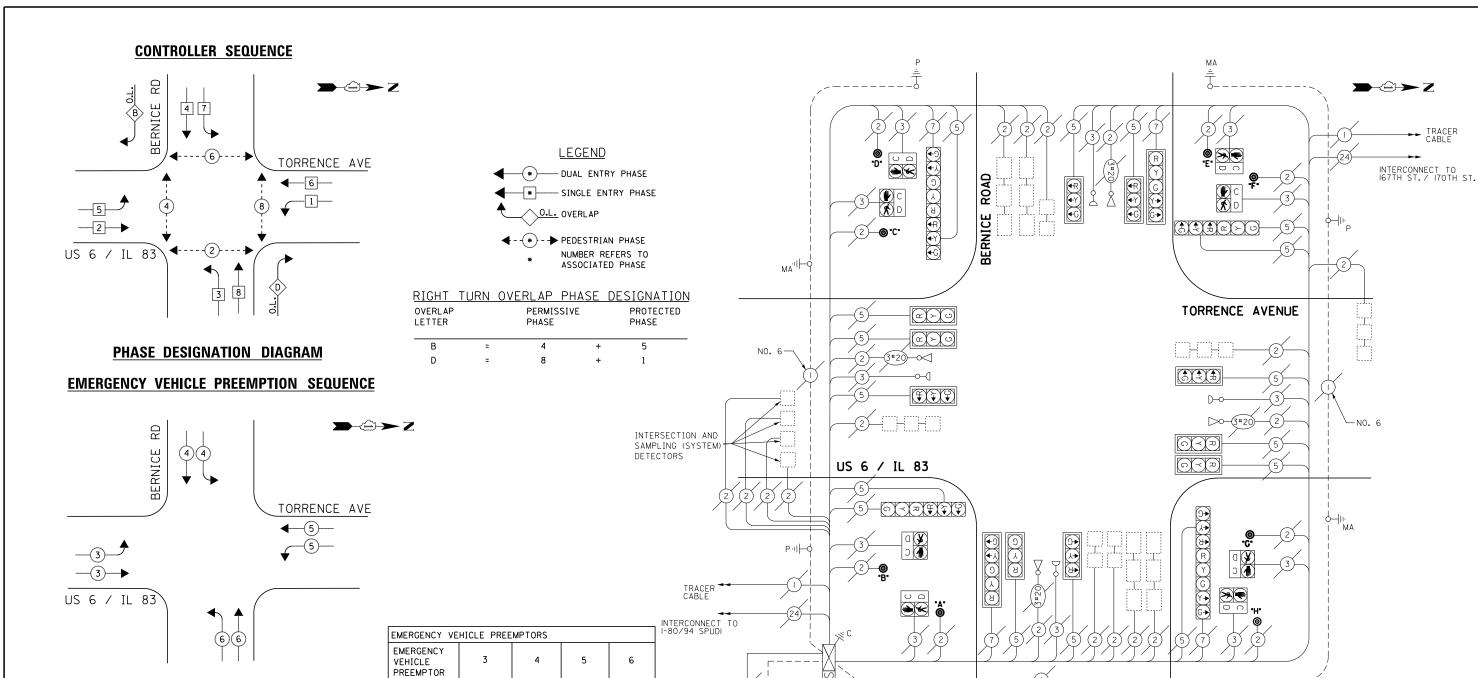
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

10 EACH SIGNAL HEAD, 3-SECTION 6 EACH SIGNAL HEAD, 5-SECTION 4 EACH TRAFFIC SIGNAL POST ECONOLITE ASC/2-2100 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT
SHALL BE ECONOLITE TO
MATCH THE ADJACENT
EXISTING SYSTEM

TS# 11350 LANSING

COMPANY: COM	MONWEALTH EDISON									
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P.	SECTION	COUNTY	TOTAL S	HEET NO.
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-24_11350.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE		2014-044TS	соок	65	39
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	US ROUTE 6 /IL ROUTE 83 (TORRENCE AVENUE) AT LANDINGS SHOPPING CENTER	1		CONTRACT	T NO. 60	Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED.			



	I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO LAMPS	WATT	AGE	%OPERATION	WATTAGE					
'''-		INCAND.	LED							
SIGNAL (RED)	20		17	0.5	170					
(YELLOW)	20		25	0.25	125					
(GREEN)	20		15	0.25	75					
ARROW	4		12	0.10	4.8					
PED. SIGNAL	-		25	1.00	-					
CONTROLLER	1		100	1.00	100					
ILLUM. SIGN			25	0.05	-					
VIDEO SYSTEM			-	1.00	-					
FLASHER				-						
ENERGY COSTS TO	0:			TOTAL =	474.8					
201 WEST CE	PARTMENT OF TE ENTER COURT , ILLINOIS 60196		TATION							

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

PHONE: (708) 235-2692

COMPANY: COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

MOVEMENT

QUANTITY	UNIT	ITEM
1 8 1	EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN PUSH-BUTTON REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND
SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT
THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT
SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

**CABLE PLAN** 

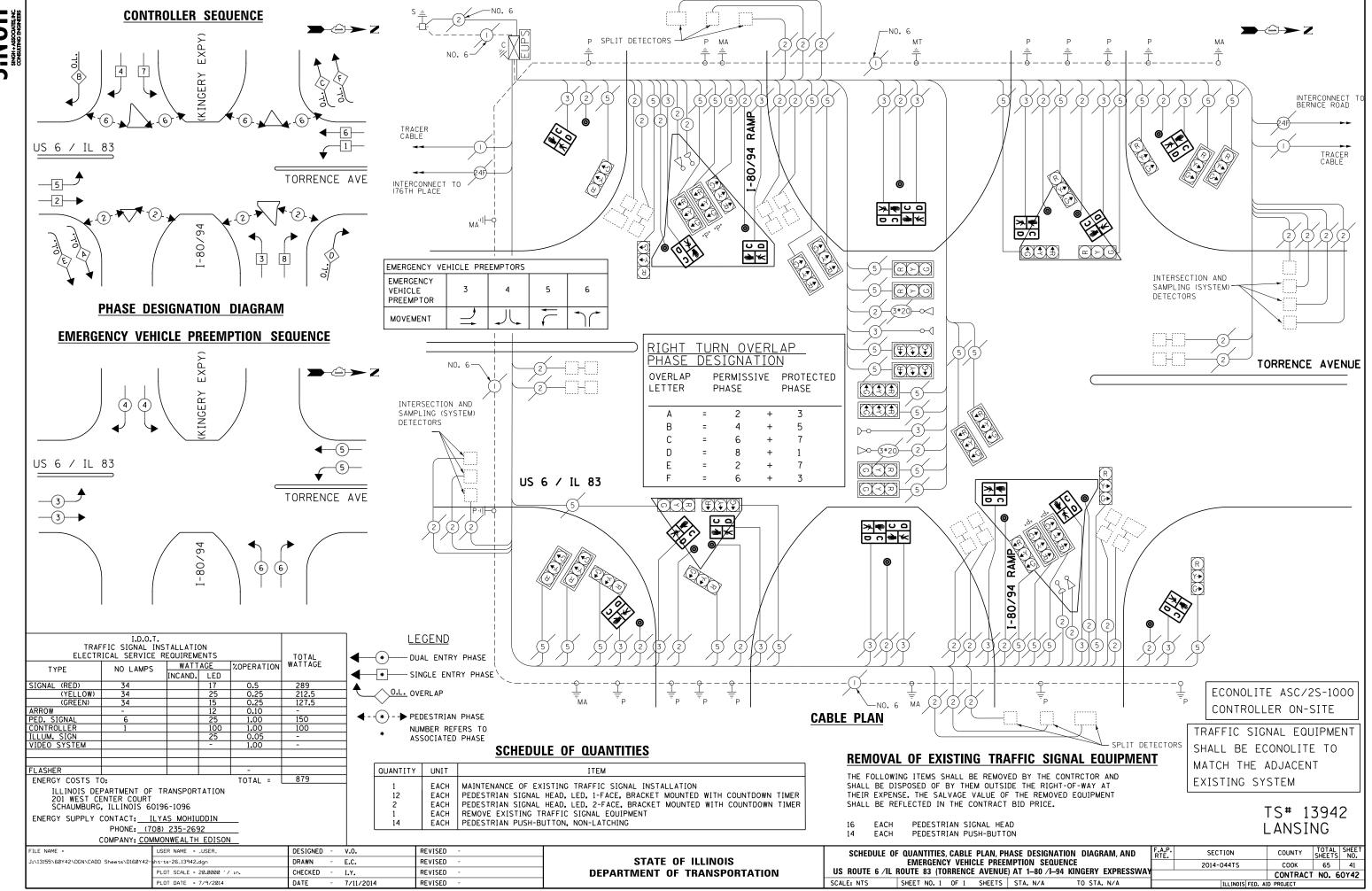
B EACH PEDESTRIAN PUSH-BUTTON

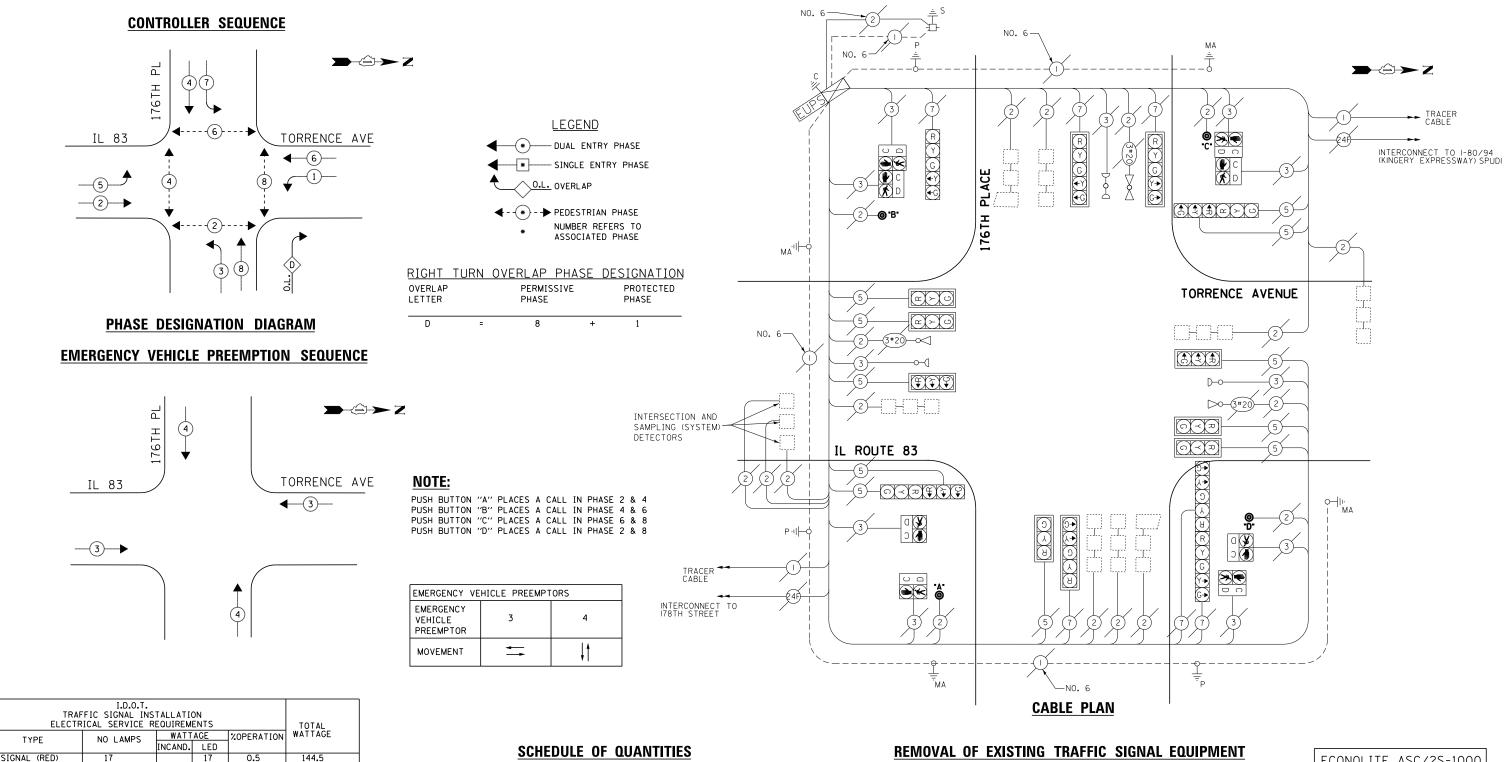
ECONOLITE ASC/2-2100 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT
SHALL BE ECONOLITE TO
MATCH THE ADJACENT
EXISTING SYSTEM

TS# 12000 LANSING

FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE	OF QUANTITIES, CABLE PLAN, PH	ASE DESIGN	IATION DIAGRAM, AND	F.A.P.	SECTION	COUNTY	TOTAL SHEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-25_12000.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS		EMERGENCY VEHICLE PREE				2014-044TS	соок	65 40
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	US ROUTE 6	/IL ROUTE 83 (TORRENCE AVENU	JE) AT 173RD	STREET /BERNICE ROAD				T NO. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA. N/A	TO STA. N/A		ILLINOIS FED.	AID PROJECT	





ILLUM. SIGN VIDEO SYSTEM 628.9 ENERGY COSTS TO: TOTAL =

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

(YELLOW) (GREEN)

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN PHONE: (708) 235-2692 COMPANY: COMMONWEALTH EDISON

QUANTITY	UNIT	ITEM
1 1 4	EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PEDESTRIAN PUSH-BUTTON, NON-LATCHING

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

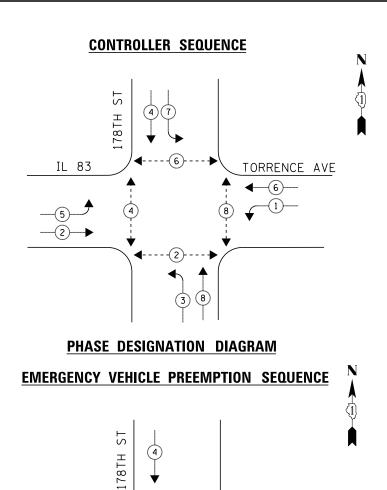
EACH PEDESTRIAN PUSH-BUTTON

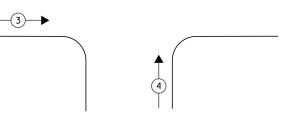
ECONOLITE ASC/2S-1000 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

TS# 21340 LANSING

FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE (	OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P.	SECTION	COUNTY CH	OTAL SHEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-27_21340 <b>.</b> dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS		EMERGENCY VEHICLE PREEMPTION SEQUENCE	RIE.	2014-044TS	311	65 42
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION		IL ROUTE 83 (TORRENCE AVENUE) AT 176TH PLACE			CONTRACT N	NO. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. AI	D PROJECT	





WATTAGE XOPERATION WATTAGE

TOTAL =

NCAND. LED

IL 83

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

NO LAMPS

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

PHONE: (708) 235-2692

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

TYPE

SIGNAL (RED)

ILLUM. SIGN VIDEO SYSTEM

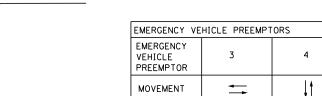
ENERGY COSTS TO:

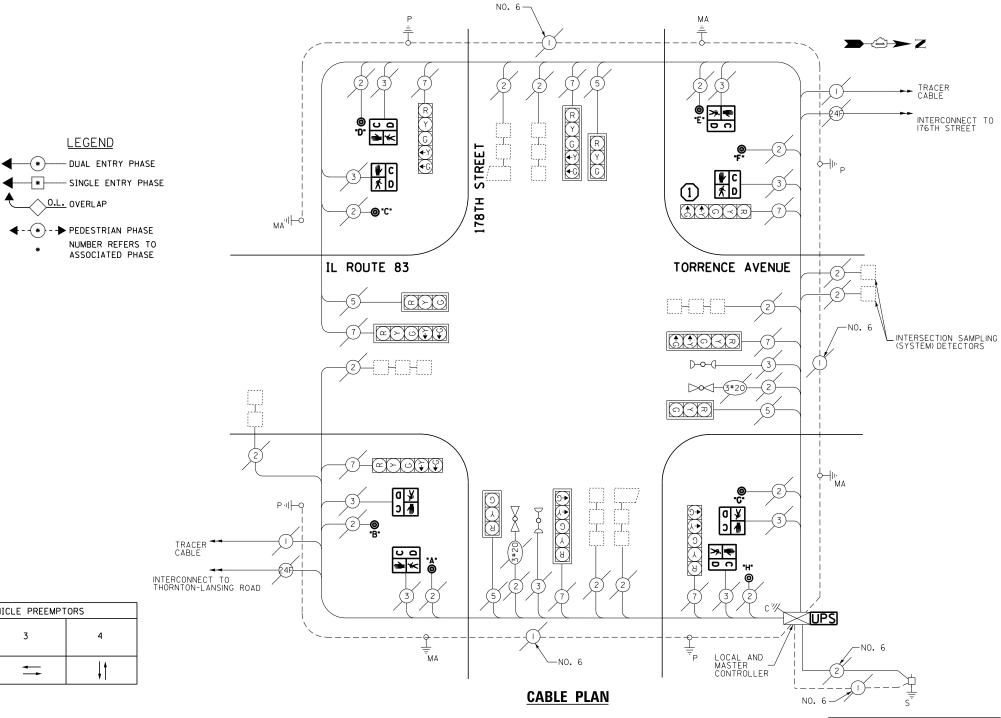
(YELLOW) (GREEN)

TORRENCE AVE

**4**—(3)—

541.2





#### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1 8 8 1	EACH EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN PUSH-BUTTON PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND

SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON EACH

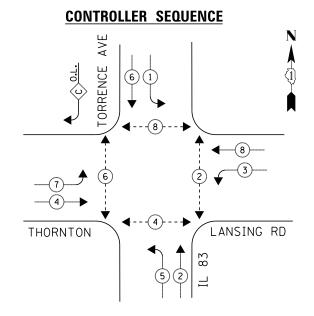
ECONOLITE ASC/2S-1000 LOCAL CONTROLLER

ECONOLITE ASC/2M-1000 MASTER CONTROLLER

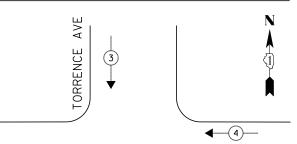
TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

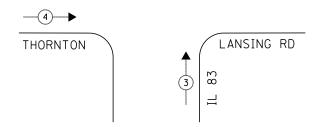
> TS# 13940 LANSING

COMPANY: COI	MMONWEALTH EDISON						271101110
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P. SECT	TON COUNTY TOTAL SHEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-28_13940.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE		044TS COOK 65 43
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 83 (TORRENCE AVENUE) AT 178TH STREET		CONTRACT NO. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. AID PROJECT



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**





	I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO LAMPS	WATTACE INC		%OPERATION	WATTAGE					
SIGNAL (RED)	14		17	0.5	119					
(YELLOW)	14		25	0.25	87.5					
(GREEN)	14		15	0.25	52 <b>.</b> 5					
ARROW	20		12	0.10	24					
PED. SIGNAL	8		25	1.00	200					
CONTROLLER	1		100	1.00	100					
ILLUM. SIGN			25	0.05	•					
VIDEO SYSTEM			ı	1.00	•					
FLASHER				-						
ENERGY COSTS T	0.			TOTAL =	583					

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096 ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN PHONE: (708) 235-2692 COMPANY: COMMONWEALTH EDISON

**LEGEND** * DUAL ENTRY PHASE * SINGLE ENTRY PHASE O.L. OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION PERMISSIVE OVERLAP PROTECTED LETTER PHASE PHASE

REPLACE 16FT, PAINTED POST, RE-USE EXISTING FOUNDATION

← - (*) - → PEDESTRIAN PHASE

NUMBER REFERS TO

ASSOCIATED PHASE

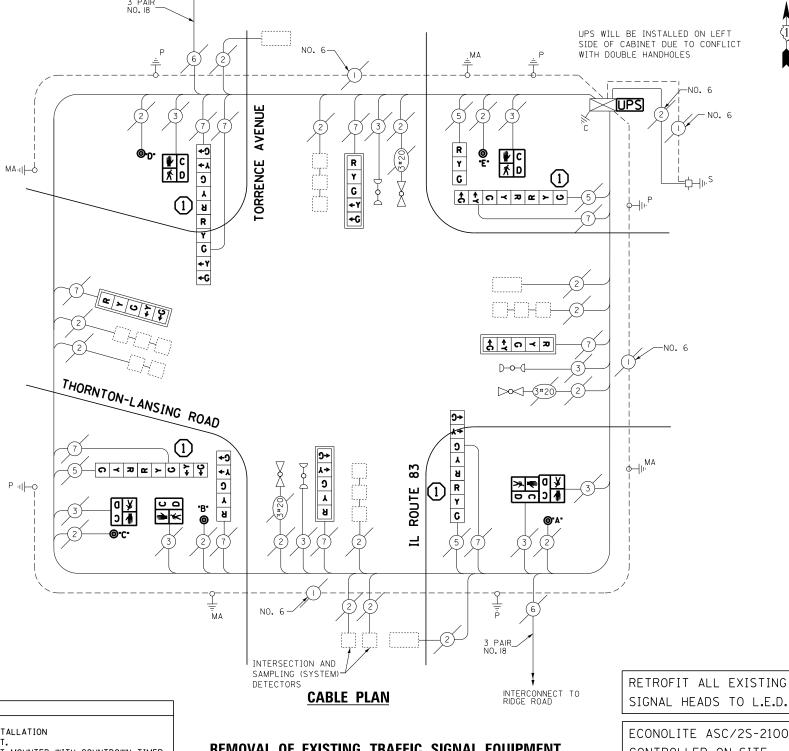
#### NOTE:

PUSH BUTTON "A" PLACES A CALL IN PHASE 2 & 4

EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	4				
MOVEMENT	↓†	=				

#### SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	RELOCATE EXISTING SIGNAL HEAD
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
3	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT
5	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS



INTERCONNECT TO

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON TRAFFIC SIGNAL POST EACH

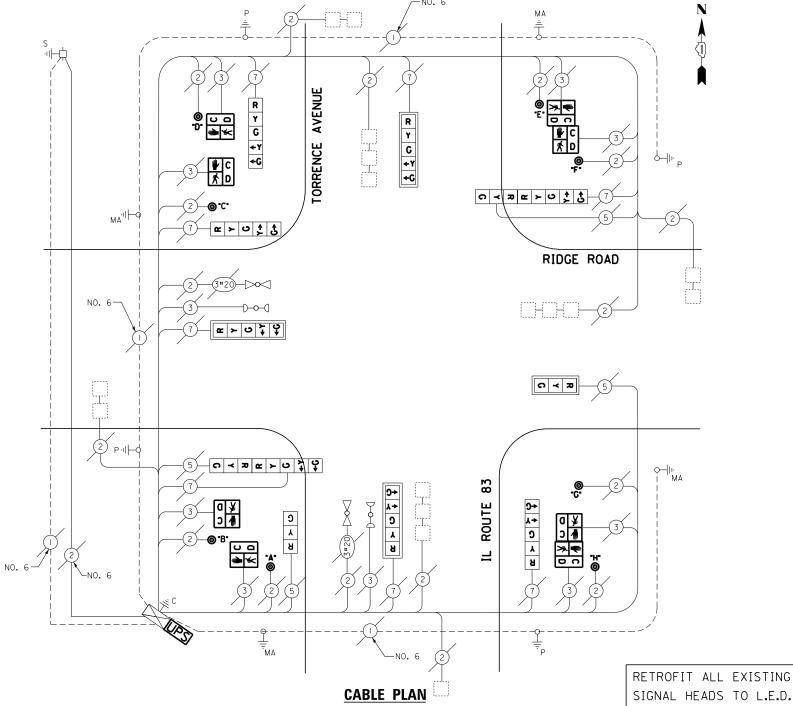
ECONOLITE ASC/2S-2100 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

> TS# 3515 LANSING

FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE C	OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P. SECTION	COUNTY	TOTAL	HEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-29_3515.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS		EMERGENCY VEHICLE PREEMPTION SEQUENCE	2014-044TS	соок	65	44
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	IL RO	UTE 83 (TORRENCE AVENUE) AT THORNTON—LANSING ROAD	<u> </u>	CONTRAC	T NO. 60	Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A	ILLINOIS FED.			





TRAF ELECTR	TOTAL							
TYPE	NO LAMPS	WATT	AGE	%OPERATION	WATTAGE			
l '''-	No EAN S	INCAND.	LED					
SIGNAL (RED)	12		17	0.5	102			
(YELLOW)	12		25	0.25	75			
(GREEN)	12		15	0.25	45			
ARROW	16		12	0.10	19.2			
PED. SIGNAL	8		25	1.00	200			
CONTROLLER	1		100	1.00	100			
ILLUM. SIGN			25	0.05	-			
VIDEO SYSTEM			-	1.00	-			
FLASHER				-				
ENERGY COSTS T	ENERGY COSTS TO: TOTAL =							

TILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: <u>ILYAS MOHIUDDIN</u>
PHONE: (708) 235-2692

PHONE: (708) 235-2692

COMPANY: COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

8 EACH PEDESTRIAN SIGNAL HEAD 8 EACH PEDESTRIAN PUSH-BUTTON ECONOLITE ASC/2S-1000

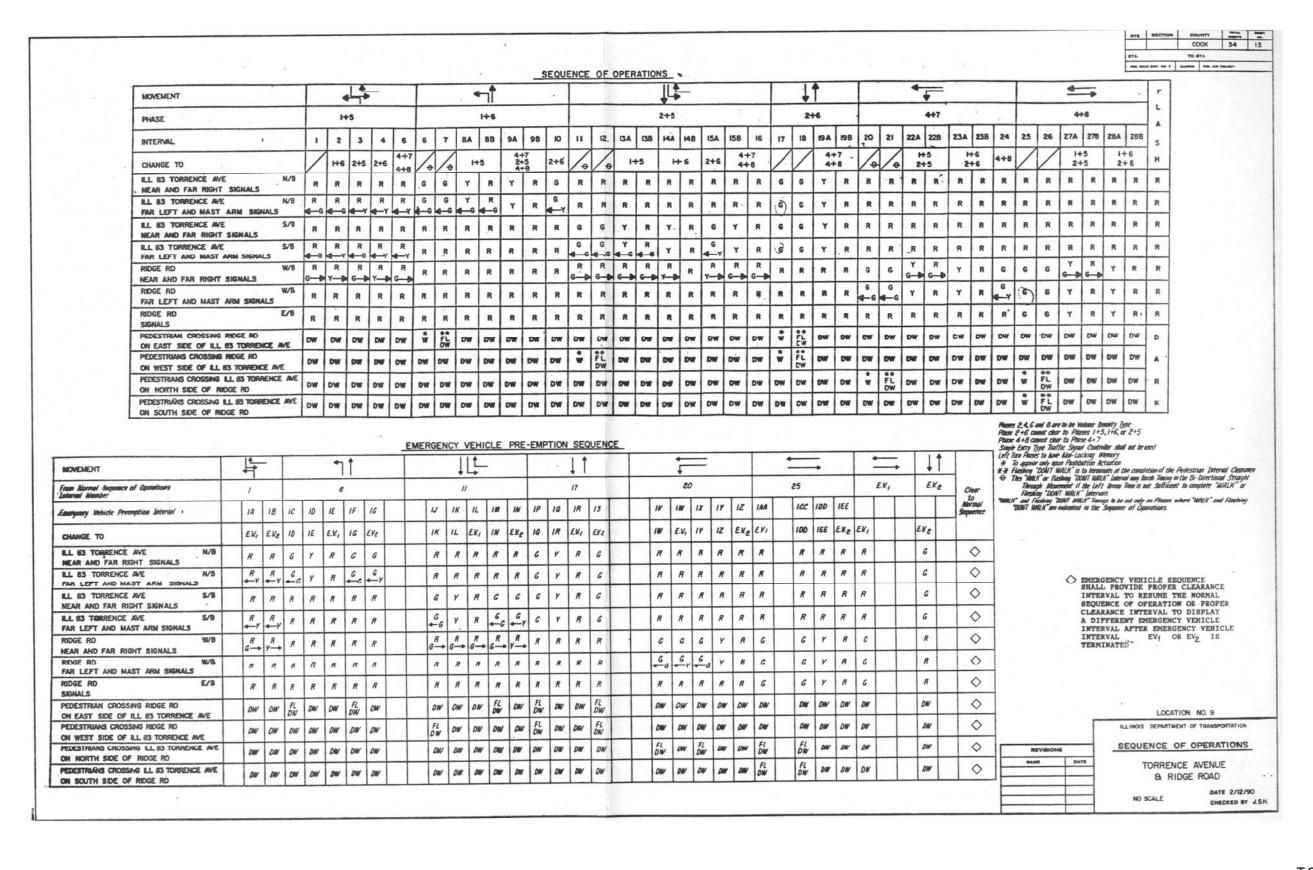
CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

> TS# 3495 LANSING

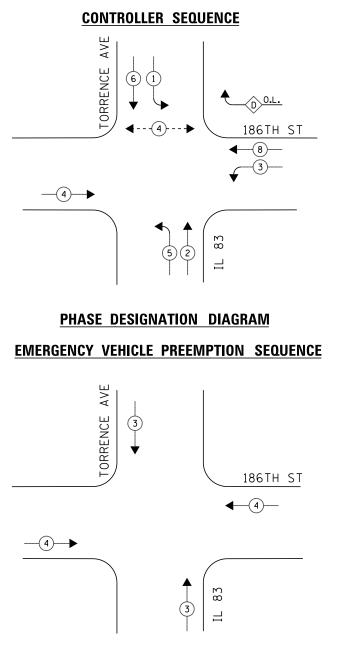
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -			CONFINE OF CHANTITIES AND CARLE BLAN	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-30_3495.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS		SCHEDULE OF QUANTITIES AND CABLE PLAN IL ROUTE 83 (TORRENCE AVENUE) AT RIDGE ROAD		2014-044TS	соок	65	45
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION		IE HOOTE 83 (TORRENGE AVENUE) AT HIDDE HOAD			CONTRACT	NO. 6	0Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. A			

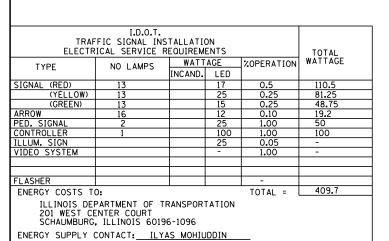




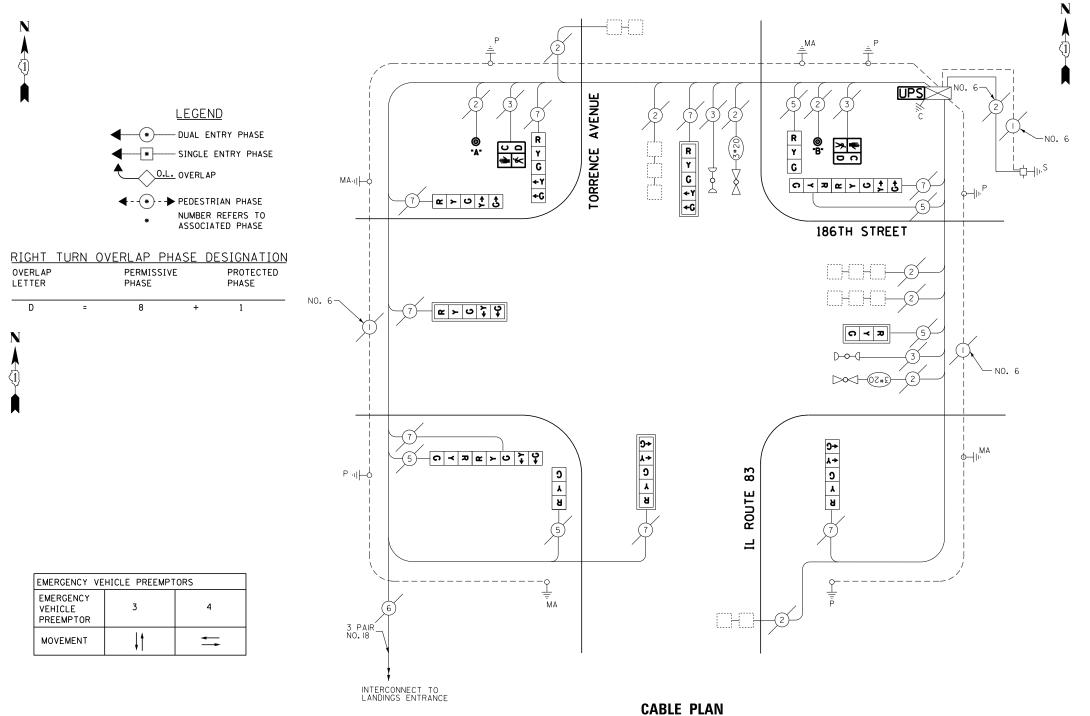
TS# 3495 LANSING

FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -			PHASE DESIGNATION DIAGRAM AND	F.A.P.	SECTION	COUNTY CHE	OTAL SHEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-31_3495.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS		EMERGENCY VEHICLE PREEMPTION SEQUENCE		2014-044TS		65 46
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION		US 6 – IL 83 (TORRENCE AVENUE) AT RIDGE ROAD			CONTRACT NO	0. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. AI	) PROJECT	





PHONE: (708) 235-2692



#### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
,	FACU	MAINTENANCE OF EVICTING TRAFFIC CIONAL INCTALLATION
1 1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

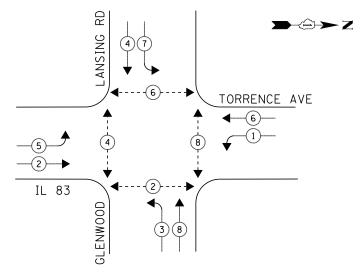
2 EACH PEDESTRIAN SIGNAL HEAD 2 EACH PEDESTRIAN PUSH-BUTTON ECONOLITE ASC/2S-1000 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT
SHALL BE ECONOLITE TO
MATCH THE ADJACENT
EXISTING SYSTEM

TS# 3380 LANSING

	MONWEALTH EDISON								10
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P.	SECTION	COUNTY	TOTAL SHEET NO.
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	ht-ts-32_3380.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE	2	014-044TS	соок	65 47
	PLOT SCALE = 20.0000 '/ in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 83 (TORRENCE AVENUE) AT 186TH STREET				NO. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. A		

#### **CONTROLLER SEQUENCE**



#### **LEGEND**

* DUAL ENTRY PHASE * SINGLE ENTRY PHASE

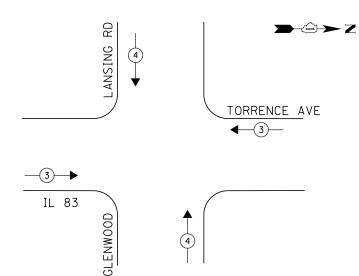
← - (*) - → PEDESTRIAN PHASE NUMBER REFERS TO

ASSOCIATED PHASE

O.L. OVERLAP

#### PHASE DESIGNATION DIAGRAM

#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**



WATTAGE KOPERATION WATTAGE

TOTAL =

541.2

NCAND. LED

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

NO LAMPS

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

PHONE: (708) 235-2692

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

TYPE

SIGNAL (RED)

LLUM. SIGN /IDEO SYSTEM

ENERGY COSTS TO:

(YELLOW) (GREEN)

REPLACE 16FT, PAINTED POST, RE-USE EXISTING FOUNDATION

#### NOTE:

PUSH BUTTON "A" PLACES A CALL IN PHASE 2 & 4 PUSH BUTTON "D" PLACES A CALL IN PHASE 6 & 8 PUSH BUTTON "E" PLACES A CALL IN PHASE 2 & 8

EMERGENCY VEHICLE PREEMPTORS									
EMERGENCY VEHICLE PREEMPTOR	3	4							
MOVEMENT	<b>₩</b>	<b>↓</b> ↑							

#### SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16FT.
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	RELOCATE EXISTING SIGNAL HEAD
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
5	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

**CABLE PLAN** 

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В

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON EACH EACH TRAFFIC SIGNAL POST

UPS WILL BE INSTALLED ON LEFT SIDE OF CABINET DUE TO CONFLICT WITH DOUBLE HANDHOLES :

ROAD

ENWOOD-LANSING

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(1)

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IL ROUTE 83

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_CALLING LOOP

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

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\$ **\$** 0 ≺ 2

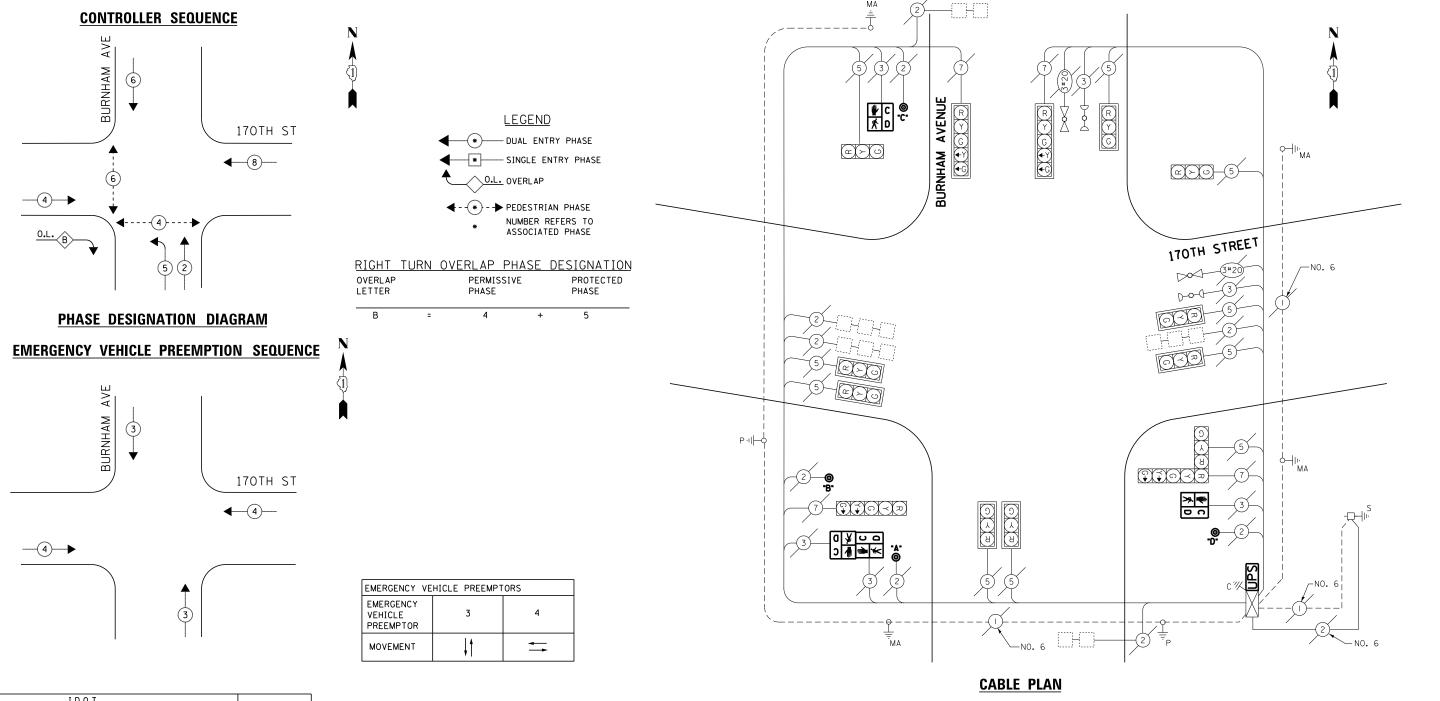
TORRENCE AVENUE

ECONOLITE ASC/2-2100 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

> TS# 21185 LANSING

COMPANY: COMMONWEALTH EDISON FILE NAME : DESIGNED - V.O. REVISED USER NAME = _USER. SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SECTION COUNTY STATE OF ILLINOIS :\13155\60Y42\DGN\CADD Sheets\D160Y42 ht-ts-33_21185.dan DRAWN E.C. REVISED EMERGENCY VEHICLE PREEMPTION SEQUENCE COOK 65 48 2014-044TS IL ROUTE 83 (TORRENCE AVENUE) AT GLENWOOD-LANSING ROAD CHECKED I.Y. REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60Y42 SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A PLOT DATE = 7/9/2014 DATE REVISED 7/11/2014



	I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO LAMPS	WATT	AGE	%OPERATION	WATTAGE						
1112	.,,,	INCAND.	LED								
SIGNAL (RED)	14		17	0.5	119						
(YELLOW)	14		25	0.25	87 <b>.</b> 5						
(GREEN)	14		15	0.25	52 <b>.</b> 5						
ARROW	8		12	0.10	9.6						
PED. SIGNAL	4		25	1.00	100						
CONTROLLER	1		100	1.00	100						
ILLUM. SIGN			25	0.05	-						
VIDEO SYSTEM			-	1.00	1						
FLASHER				-							
ENERGY COSTS TO	0:			TOTAL =	468.6						

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: <u>ILYAS MOHIUDDIN</u>
PHONE: (708) 235-2692
COMPANY: COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
2 1 4 1 1	EACH EACH EACH EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN PUSH-BUTTON MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

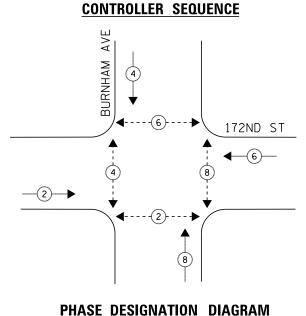
4 EACH PEDESTRIAN SIGNAL HEAD
4 EACH PEDESTRIAN PUSH-BUTTON

ECONOLITE ASC/2S-2100 CONTROLLER ON-SITE

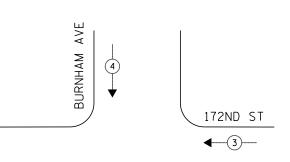
TRAFFIC SIGNAL EQUIPMENT
SHALL BE ECONOLITE TO
MATCH THE ADJACENT
EXISTING SYSTEM

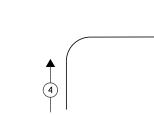
TS# 4230 LANSING

FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P. SECTION	COUNTY TOTA	TAL SHEET
J:\13155\60Y42\DGN\CADD Sheets\D16	1Y42-sht-ts-34_4230.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE	2014-044TS	COOK 65	5 49
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	BURNHAM AVENUE AT 170TH STREET	<u> </u>	CONTRACT NO.	. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A	ILLINOIS FED. A	AID PROJECT	

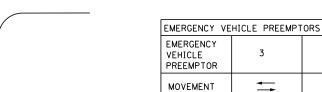


#### EMERGENCY VEHICLE PREEMPTION SEQUENCE





TOTAL =



QUANTITY UNIT

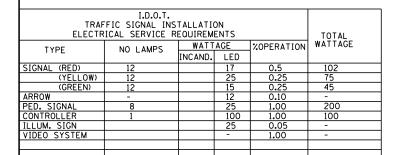
EACH

EACH

EACH

EACH

NOTE:



ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: <u>ILYAS MOHIUDDIN</u>
PHONE: (708) 235-2692

PHONE: (708) 235-2692
COMPANY: COMMONWEALTH EDISON

#### 

PUSH BUTTON "C" PLACES A CALL IN PHASE 4 AND 6

**SCHEDULE OF QUANTITIES** 

MODIFY EXISTING CONTROLLER CABINET

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

UNINTERRUPTABLE POWER SUPPLY, SPECIAL

PEDESTRIAN PUSH-BUTTON, NON-LATCHING

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

ITEM

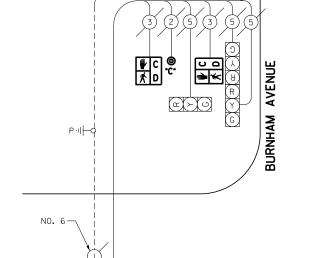
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER

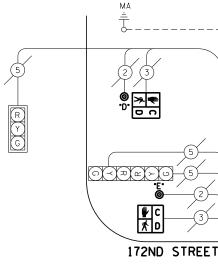
* SINGLE ENTRY PHASE

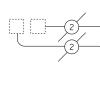
◆ - - * PEDESTRIAN PHASE

* NUMBER REFERS TO

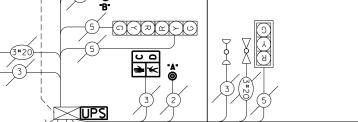
ASSOCIATED PHASE







-NO. 6



No. 6

**CABLE PLAN** 

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

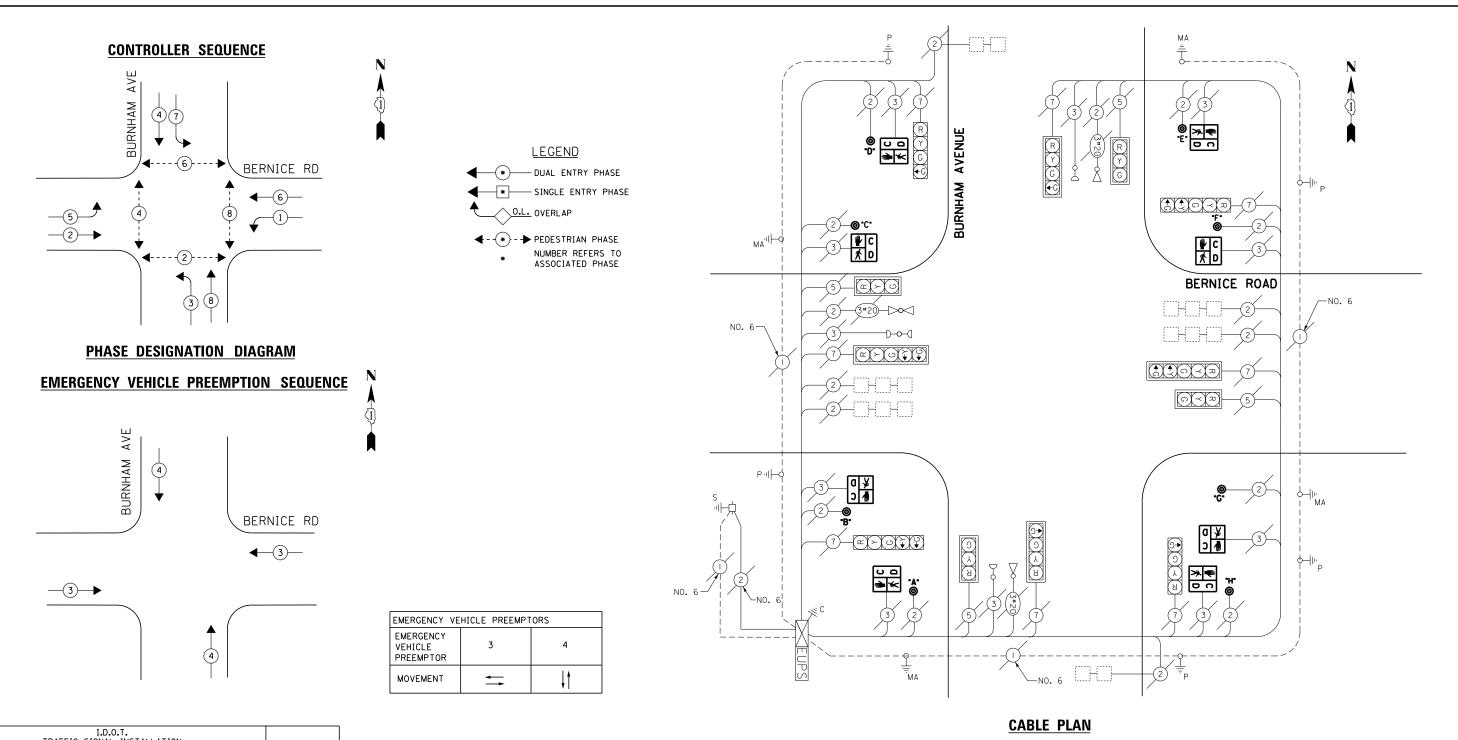
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

8 EACH PEDESTRIAN SIGNAL HEAD 7 EACH PEDESTRIAN PUSH-BUTTON ECONOLITE ASC/2S-2100 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT
SHALL BE ECONOLITE TO
MATCH THE ADJACENT
EXISTING SYSTEM

TS# 13950 LANSING

FILE NAME : DESIGNED - V.O. REVISED USER NAME = _USER. SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SECTION COUNTY STATE OF ILLINOIS :\13155\60Y42\DGN\CADD Sheets\D160Y42 nt-ts-35_13950.dan DRAWN E.C. REVISED **EMERGENCY VEHICLE PREEMPTION SEQUENCE** 2014-044TS COOK 65 50 CHECKED I.Y. REVISED **DEPARTMENT OF TRANSPORTATION** BURNHAM AVENUE AT 172ND STREET CONTRACT NO. 60Y42 SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A DATE PLOT DATE = 7/9/2014 7/11/2014 REVISED



## | I.D.O.T. | TRAFFIC SIGNAL INSTALLATION | ELECTRICAL SERVICE REQUIREMENTS | TOTAL | WATTAGE | W

539.1

TOTAL =

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: <u>ILYAS MOHIUDDIN</u>
PHONE: (708) 235-2692

#### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1 8 8 1	EACH EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN PUSH-BUTTON REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

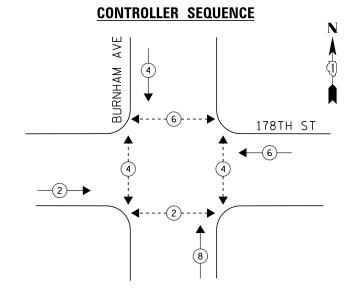
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

8 EACH PEDESTRIAN SIGNAL HEAD 8 EACH PEDESTRIAN PUSH-BUTTON EAGLE EPAC 300 CONTROLLER ON-SITE

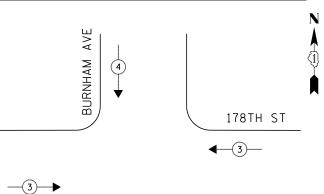
TRAFFIC SIGNAL EQUIPMENT
SHALL BE EAGLE TO
MATCH THE ADJACENT
EXISTING SYSTEM

TS# 13955 LANSING

COMPANY: COM	MONWEALTH EDISON										27101	.,,
FILE NAME =	USER NAME = _USER_	DESIGNED - V.	.0.	REVISED -		SCHEDULE	OF QUANTITIES, CABLE PLAN, PH	IASE DESIGNATION DIAGRAM, AND	F.A.P.	SECTION	COUNTY	TOTAL SHEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-36_13955.dgn	DRAWN - E.	.C.	REVISED -	STATE OF ILLINOIS		EMERGENCY VEHICLE PREEI			2014-044TS	соок	65 51
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.	Υ.	REVISED -	DEPARTMENT OF TRANSPORTATION		BURNHAM AVENUE AT	BERNICE ROAD				T NO. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/	/11/2014	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA. N/A TO STA. N/A		ILLINOIS FE	D. AID PROJECT	



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**



I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

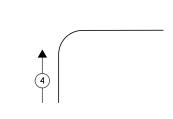
PHONE: (708) 235-2692

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

TYPE

(YELLOW) (GREEN)

ENERGY COSTS TO:



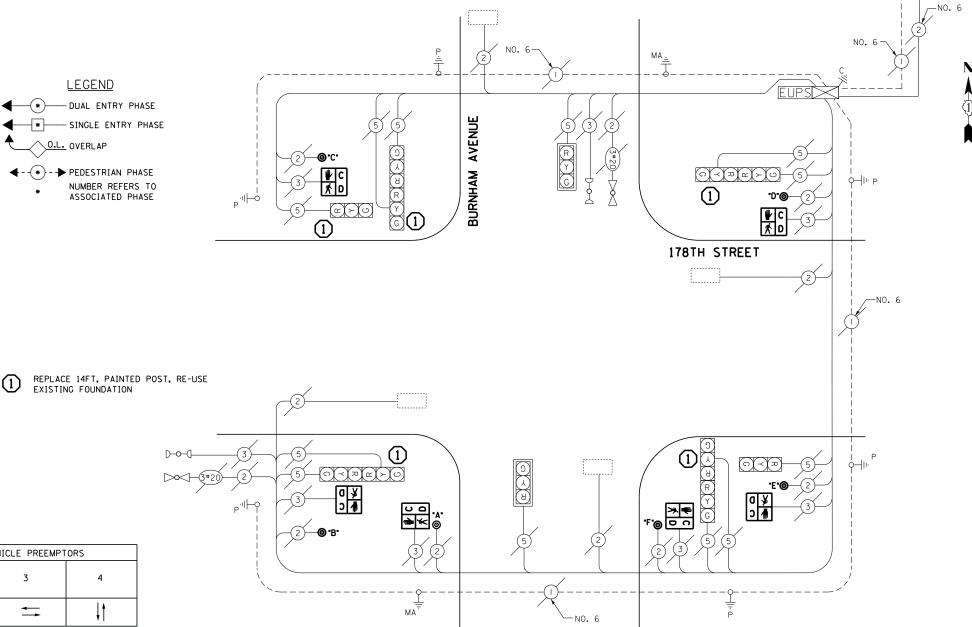
WATTAGE CAND. LED COPERATION WATTAGE

TOTAL =

472

INCAND. LED

EMERGENCY VE	HICLE PREEMPT	ORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<del>-</del>	φ



#### SCHEDULE OF QUANTITIES

**LEGEND** 

O.L. OVERLAP

QUANTITY	UNIT	ITEM
1 5 6 6 9 1 3	EACH EACH EACH EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT. PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN PUSH-BUTTON RELOCATE EXISTING SIGNAL HEAD REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE AND REPLACE ANCHOR BOLTS
	l	I.

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

**CABLE PLAN** 

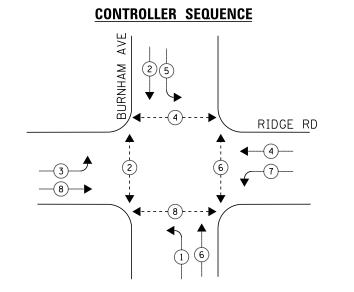
TRAFFIC SIGNAL POST PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON EACH EACH

ECONOLITE ASC/2S-2100 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

> TS# 13960 LANSING

	COMPANY: COM	MONWEALTH EDISON										
F	ILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHA	ASE DESIGNATION DIAGRAM, AND	F.A.P.	SECTION	COUNTY	TOTAL S	HEET NO.
J:	:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-37_1396 <b>0.</b> dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEM			2014-044TS	соок	65	52
		PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	BURNHAM AVENUE AT	178TH STREET			CONTRACT	T NO. 60	Y42
		PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS	STA. N/A TO STA. N/A		ILLINOIS FED.			



#### **LEGEND**

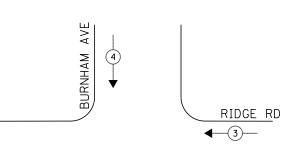
* DUAL ENTRY PHASE

* SINGLE ENTRY PHASE O.L. OVERLAP

← - (*) - → PEDESTRIAN PHASE NUMBER REFERS TO ASSOCIATED PHASE



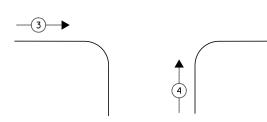




WATTAGE XOPERATION WATTAGE

TOTAL =

541.2



NCAND. LED

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

NO LAMPS

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

PHONE: (708) 235-2692

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

TYPE

SIGNAL (RED)

LLUM. SIGN /IDEO SYSTEM

FLASHER
ENERGY COSTS TO:

(YELLOW) (GREEN)

EMERGENCY VE	HICLE PREEMPT	ORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>=</b>	↓↑

## BURNHAM AVENUE _{MA}·II⊢φ RIDGE ROAD NO. 6--NO. 6 **⇒ €** MΑ

#### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
	=	
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

**CABLE PLAN** 

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

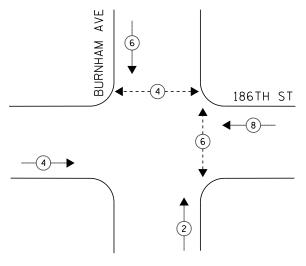
PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON ECONOLITE ASC-8000 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

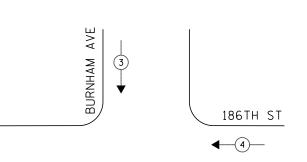
> TS# 4235 LANSING

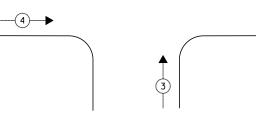
COMPANY: COM	MONWEALTH EDISON							_ / 10 1	
1	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P. SECT	TION	COUNTY	TOTAL SHEE SHEETS NO.
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	ht-ts-38_4235.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE	2014-0	044TS	СООК	65 53
	PLOT SCALE = 20.0000 '/ in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	BURNHAM AVENUE AT RIDGE ROAD			CONTRAC	T NO. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. A		





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**





NCAND. LED

WATTAGE CAND. LED COPERATION WATTAGE

TOTAL =

348

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

PHONE: (708) 235-2692

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

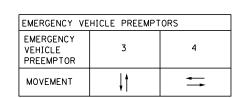
TYPE

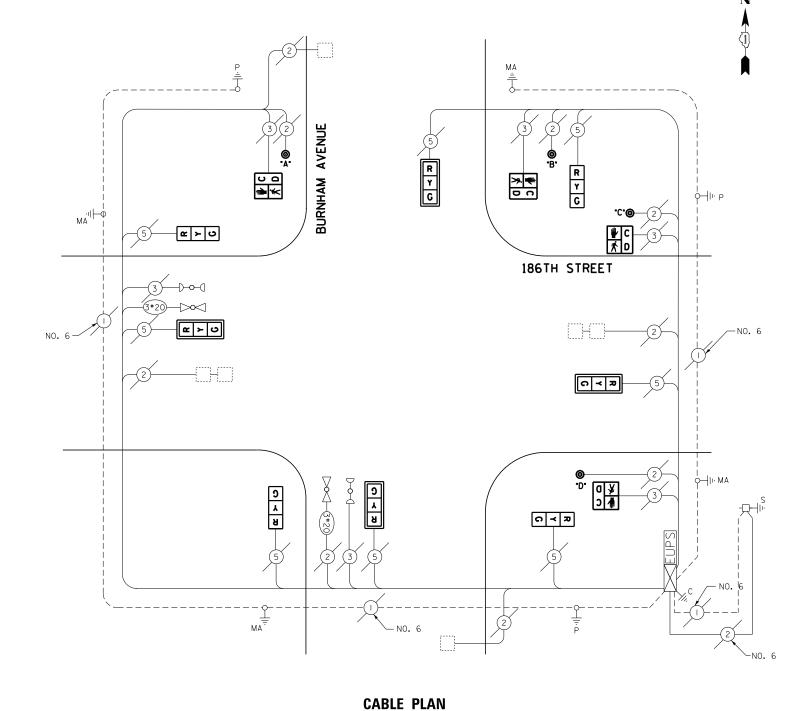
SIGNAL (RED)

LLUM. SIGN /IDEO SYSTEM

ENERGY COSTS TO:

(YELLOW) (GREEN)





#### **SCHEDULE OF QUANTITIES**

**LEGEND** 

* DUAL ENTRY PHASE * SINGLE ENTRY PHASE

O.L. OVERLAP

← - (*) - → PEDESTRIAN PHASE

NUMBER REFERS TO ASSOCIATED PHASE

#### QUANTITY UNIT MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED EACH EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH PEDESTRIAN PUSH-BUTTON REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

SIGNAL HEAD, 3-SECTION PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON EACH EACH

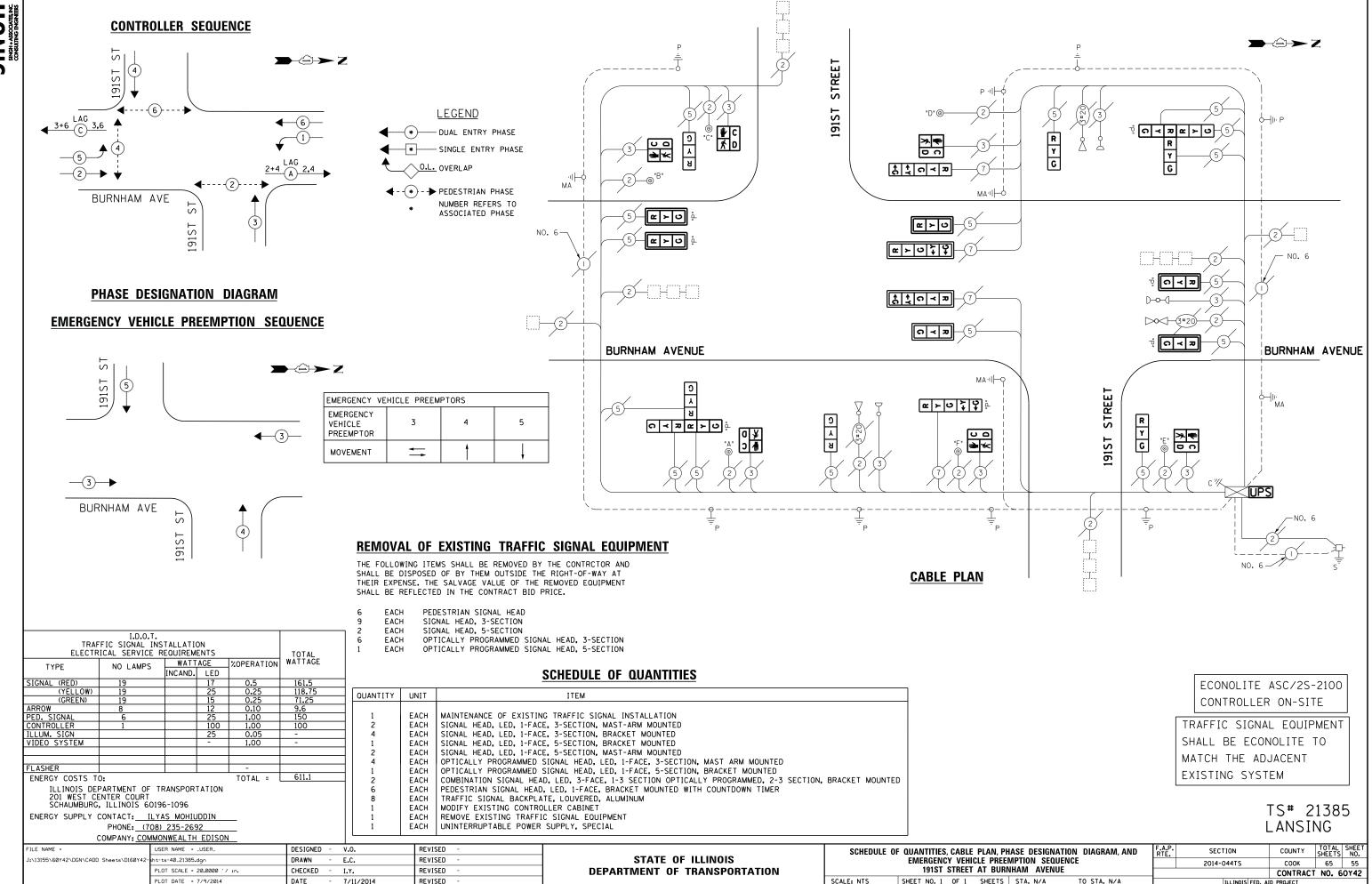
ECONOLITE ASC/3-1000 CONTROLLER ON-SITE

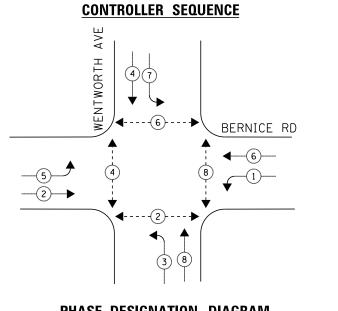
TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

> TS# 13965 LANSING

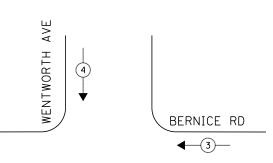
COMPANY: COM	MMUNWEALTH EDISON_								
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P. SECTION	COUNTY	TOTAL S	HEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-39_13965.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE	2014-044TS	соок	65	54
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	BURNHAM AVENUE AT 186TH STREET			T NO. 60	Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A	ILL INOIS FED		- 1100 00	

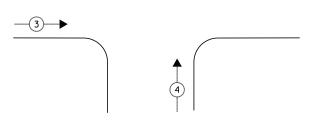






#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**





INCAND. LED

WATTAGE XOPERATION WATTAGE

TOTAL =

559.7

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

PHONE: (708) 235-2692

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

TYPE

SIGNAL (RED)

LLUM. SIGN /IDEO SYSTEM

FLASHER
ENERGY COSTS TO:

(YELLOW) (GREEN)

#### NOTE:

PUSH-BUTTON "C" PLACES A CALL IN PHASE 4 AND 6 PUSH-BUTTON "F" PLACES A CALL IN PHASE 2 AND 8

**LEGEND** 

* SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

* DUAL ENTRY PHASE

O.L. OVERLAP

← - (*) - → PEDESTRIAN PHASE

EMERGENCY VE	EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4						
MOVEMENT	<b>=</b>	<b>↓</b> †						

## ₩ C ∪ O ≫**∉** @.D. ⊣—ф МА BERNICE ROAD 0 ¥ ⊃ **∄ CABLE PLAN**

#### SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1 4 2 1 6	EACH EACH EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PEDESTRIAN PUSH-BUTTON, NON-LATCHING

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

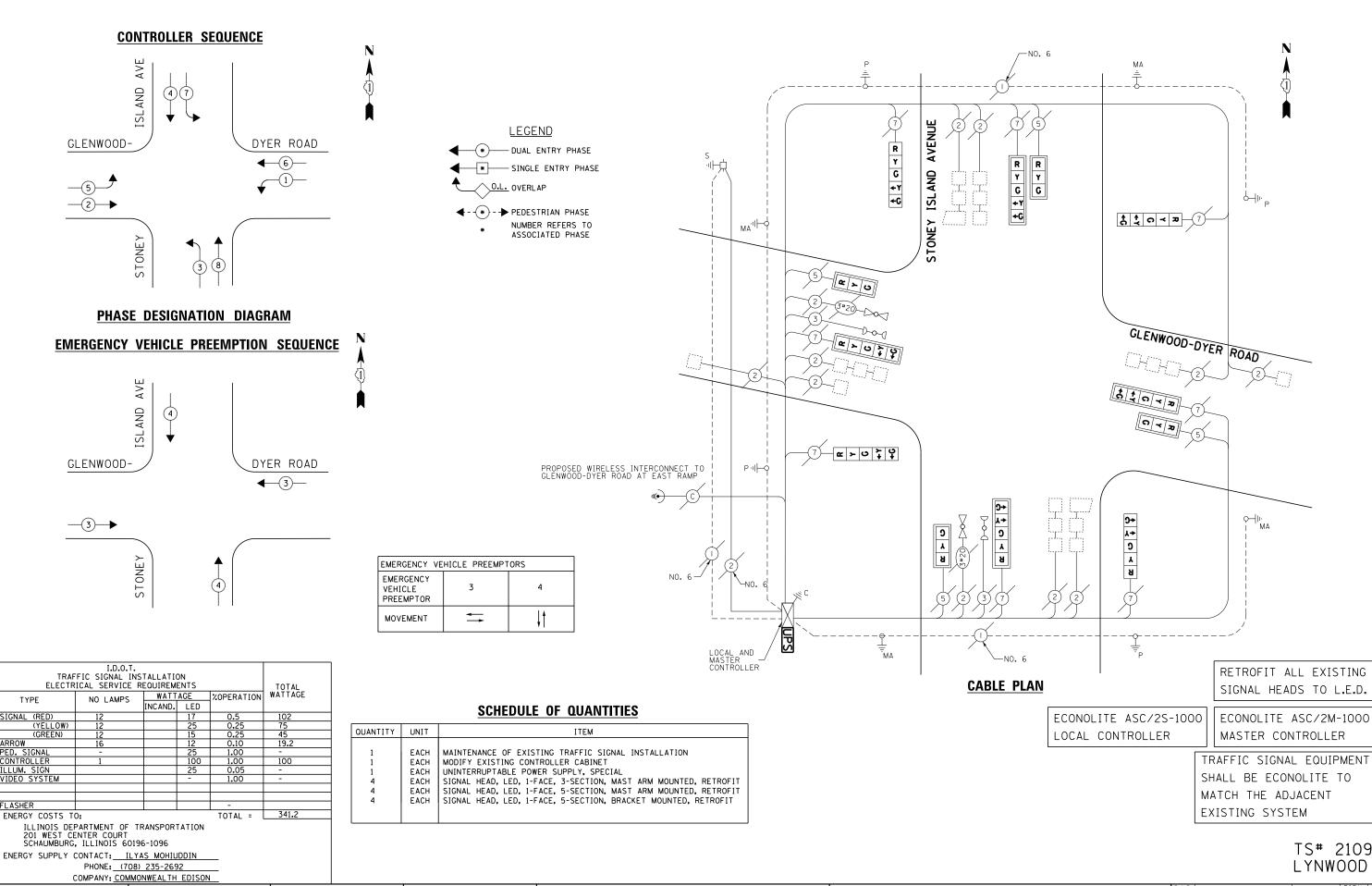
PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON EACH

ECONOLITE ASC/2S-1000 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

> TS# 13970 LANSING

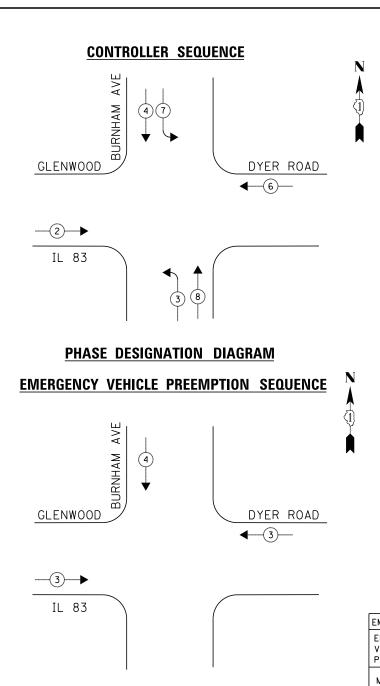
COMPANY: COM	MONWEALTH EDISON								1.10	
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, A	AND F.	A.P. SECTION	COUNT	, TOTA	AL SHEE
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	ht-ts-41_13970.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE		2014-044TS	соок	65	56 ذ
	PLOT SCALE = 20.0000 '/ in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	WENTWORTH AVENUE AT BERNICE ROAD		<u> </u>	CONTR	ACT NO.	. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FE	D. AID PROJECT		



LYNWOOD COUNTY

TS# 21090

DESIGNED - V.O. REVISED SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SECTION STATE OF ILLINOIS :\13155\60Y42\DGN\CADD Sheets\D160Y42 t-ts-42_21090.dar DRAWN E.C. REVISED EMERGENCY VEHICLE PREEMPTION SEQUENCE COOK 65 57 2014-044TS GLENWOOD DYER ROAD AT STONEY ISLAND AVENUE CHECKED I.Y. REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60Y42 SHEET NO. 1 OF 1 SHEETS STA. N/A DATE REVISED TO STA. N/A PLOT DATE = 7/9/2014 7/11/2014



TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

WATTAGE

WATTAGE

93.5_

318.5

TOTAL =

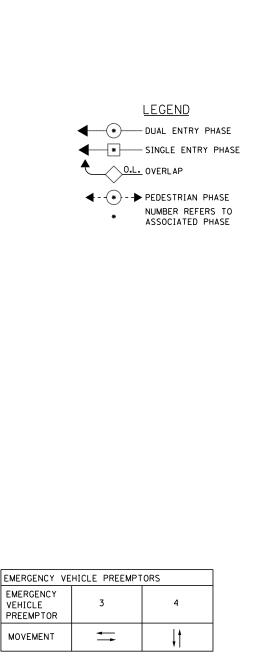
(YELLOW) (GREEN)

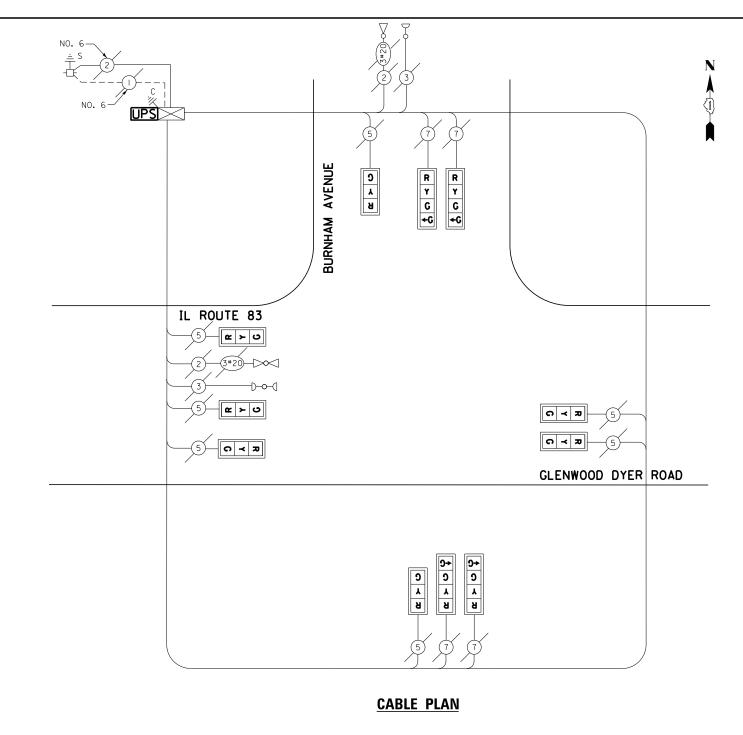
PED. SIGNAL CONTROLLER ILLUM. SIGN VIDEO SYSTEM

FLASHER
ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN





#### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
7	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, SPAN WIRE MOUNTED, RETROFIT

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

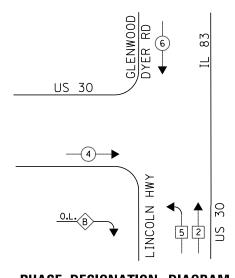
EAGLE EPAC 300 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT
SHALL BE EAGLE TO
MATCH THE ADJACENT
EXISTING SYSTEM

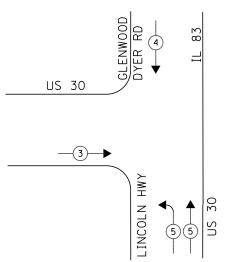
TS# 21500 LYNWOOD

_	08) 235-2692 MMONWEALTH EDISON							LYNW	OOD	
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P.	SECTION	COUNTY	TOTAL SI	HEET NO.
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-43_21500 <b>.</b> dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE		2014-044TS	соок	65	58
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 83 (GLENWOOD DYER ROAD) AT BURNHAM AVENUE	_		CONTRAC	T NO. 60	Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS   SHEET NO. 1 OF 1 SHEETS   STA. N/A TO STA. N/A		ILLINOIS FED. A	AID PROJECT		





### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**



TDAE	I.D.O.T. FIC SIGNAL INS	T AL L A T I (	N.			
ELECTR	TOTAL					
TYPE	NO LAMPS	WATT	AGE	%OPERATION	WATTAGE	
1111	NO LAWI 5	INCAND.	LED			
AL (RED)	15		17	0.5	127.5	
(YELLOW)	15		25	0.25	93.75	
(GREEN)	15		15	0.25	56.25	

SIGNA FLASHER
ENERGY COSTS TO: 382.3 TOTAL =

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

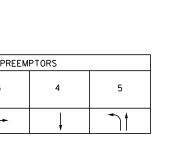
ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

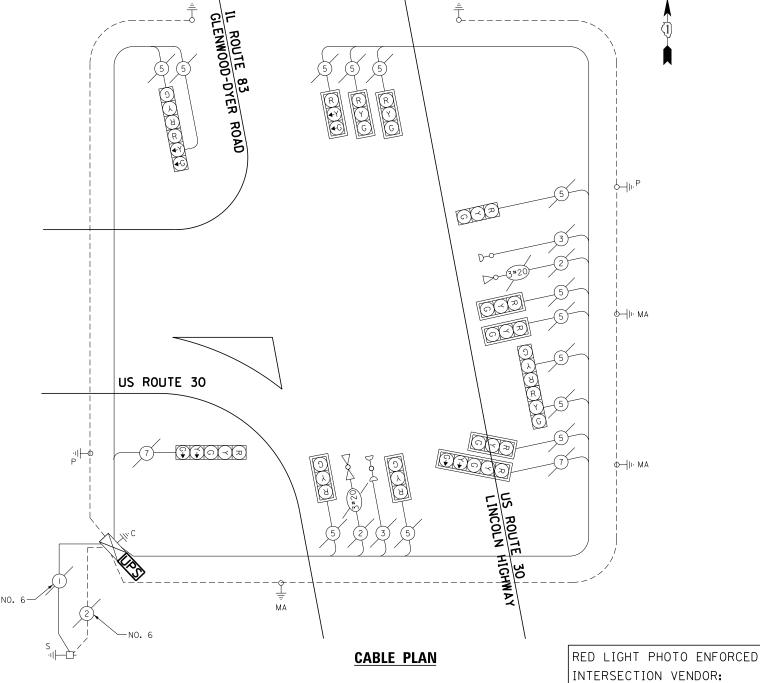
PHONE: (708) 235-2692
COMPANY: COMMONWEALTH EDISON

**LEGEND** * DUAL ENTRY PHASE * SINGLE ENTRY PHASE O.L. OVERLAP ← - (*) - → PEDESTRIAN PHASE NUMBER REFERS TO ASSOCIATED PHASE

LETTER		PHASE		PHASE	
OVERLAP		PERMIS	SSIVE	PROTECTI	ED
RIGHT	TURN	OVERLAP	PHASE	DESIGNATI	ION

EMERGENCY VEHICLE PREEMPTORS EMERGENCY 5 VEHICLE PREEMPTOR MOVEMENT





#### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1 1 1	EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL

INTERSECTION VENDOR: REDSPEED ILLINOIS

> ECONOLITE ASC/2S-1000 CONTROLLER ON-SITE

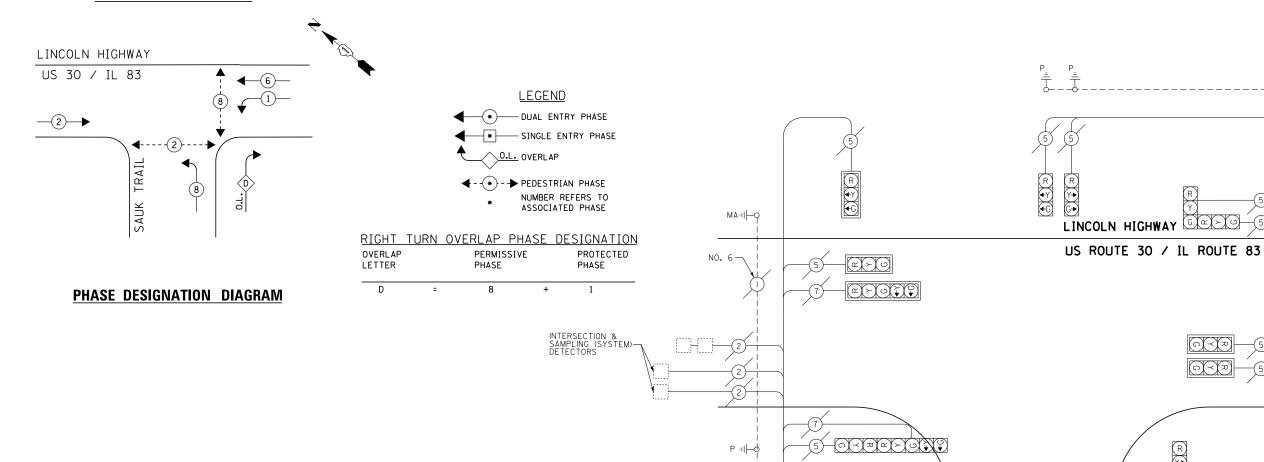
TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

TS# 1340 LYNWOOD

FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	A.P.	SECTION	COUNTY TOTAL SHEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-44_1340.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE US ROUTE 30 (LINCOLN HIGHWAY) AT US ROUTE 30 /IL ROUTE 83 (GLENWOOD DYER ROAD)		2014-044TS	COOK 65 59
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION			(	CONTRACT NO. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. AID F	PROJECT



#### CONTROLLER SEQUENCE



TRAF ELECTR	TOTAL				
TYPE	NO LAMPS	WATT	AGE	%OPERATION	WATTAGE
l ''''	I NO LAWI 5	INCAND.	LED		
SIGNAL (RED)	12		17	0.5	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	4		12	0.10	4.8
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	-
VIDEO SYSTEM			ı	1.00	-
FLASHER				-	
ENERGY COSTS T	326.8				
201 WEST CE SCHAUMBURG	PARTMENT OF TE ENTER COURT , ILLINOIS 60196	6-1096			

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

PHONE: (708) 235-2692

**SCHEDULE OF QUANTITIES** 

OUANTITY UNIT ITEM

1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1 EACH MODIFY EXISTING CONTROLLER CABINET
1 UNINTERRUPTABLE POWER SUPPLY, SPECIAL

RED LIGHT PHOTO ENFORCED INTERSECTION VENDOR: REDSPEED ILLINOIS

Φ--|I-MA

EAGLE EPAC 300 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT
SHALL BE EAGLE TO
MATCH THE ADJACENT
EXISTING SYSTEM

TS# 1405 LYNWOOD

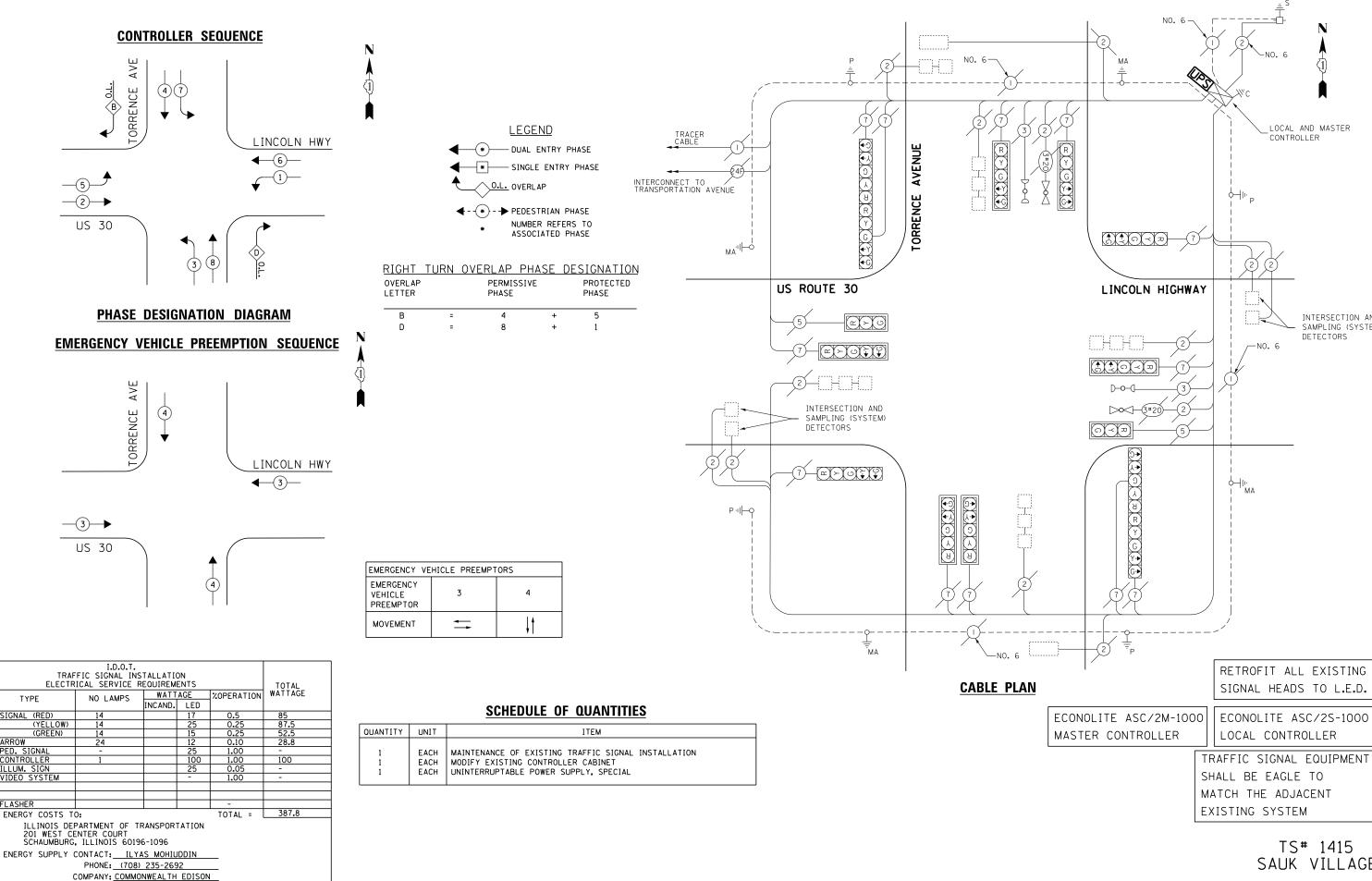
INTERSECTION & SAMPLING (SYSTEM) TETECTORS

	MMONWEALTH EDISON						LIIIIOOD
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM	F.A.P. SECTION	COUNTY TOTAL SHEETS NO.
J:\13155\60Y42\DGN\CADD Sheets\D160Y42	-sht-ts-45_1405.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	US ROUTE 30 /IL ROUTE 83 (LINCOLN HIGHWAY) AT SAUK TRAIL	2014-044TS	COOK 65 60
	PLOT SCALE = 20.0000 ' / 10.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	OS HOUTE SO /IE HOUTE SS (EINCOEN HIGHWAT) AT SAOK THAIE	<u> </u>	CONTRACT NO. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A	ILLINOIS	FED. AID PROJECT

TRAIL

SAUK

**CABLE PLAN** 



STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

DESIGNED - V.O.

E.C.

I.Y.

7/11/2014

DRAWN

DATE

CHECKED

:\13155\60Y42\DGN\CADD Sheets\D160Y42

t-ts-46_1415.dan

PLOT DATE = 7/9/2014

REVISED

REVISED

REVISED

REVISED

SECTION COUNTY 2014-044TS COOK 65 61 CONTRACT NO. 60Y42

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND

**EMERGENCY VEHICLE PREEMPTION SEQUENCE** 

US ROUTE 30 (LINCOLN HIGHWAY) AT TORRENCE AVENUE

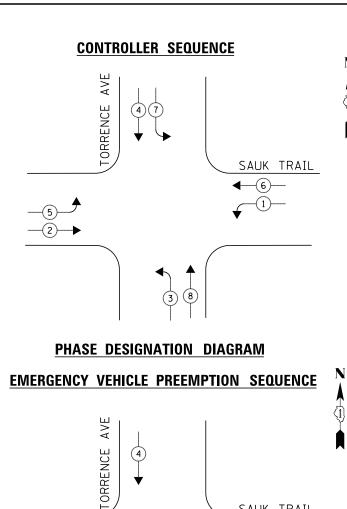
SHEET NO. 1 OF 1 SHEETS STA. N/A

TS# 1415

SAUK VILLAGE

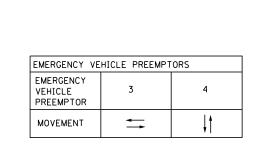
LOCAL AND MASTER CONTROLLER

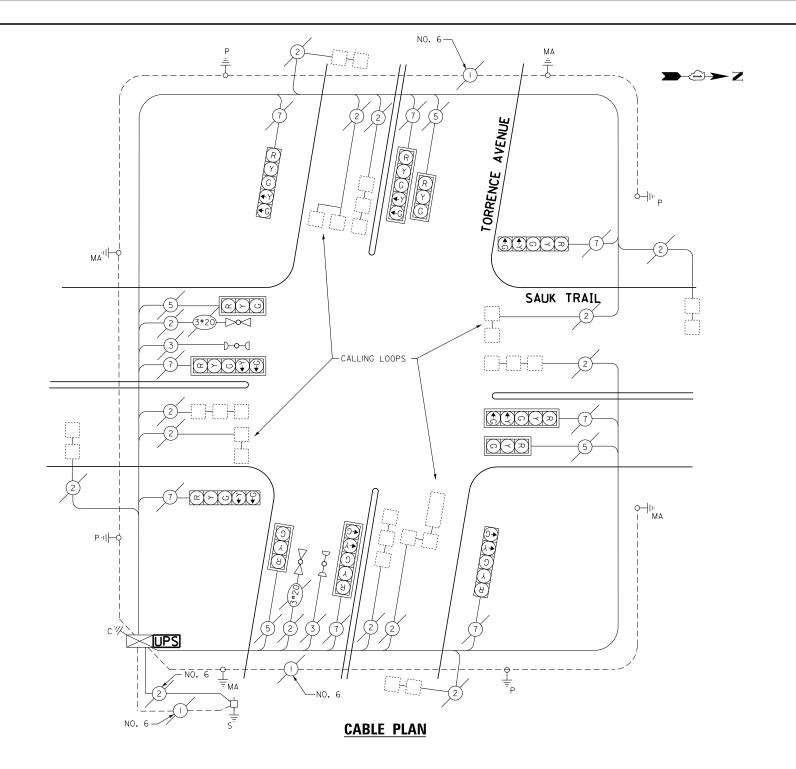
INTERSECTION AND SAMPLING (SYSTEM) DETECTORS



SAUK TRAIL

**4**─3





## TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS WATTAGE WATTAGE WATTAGE 102_ FLASHER ENERGY COSTS TO: 341.2 TOTAL =

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

**─**3 **→** 

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

PHONE: (708) 235-2692
COMPANY: COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1 1 1	EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL

**LEGEND** 

* DUAL ENTRY PHASE * SINGLE ENTRY PHASE

O.L. OVERLAP

← - (*) - → PEDESTRIAN PHASE

NUMBER REFERS TO ASSOCIATED PHASE

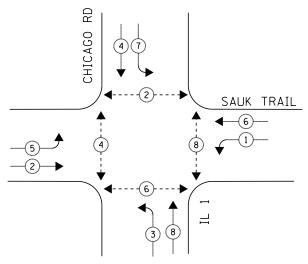
ECONOLITE ASC/2S-1000 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

TS# 5760 SAUK VILLAGE

FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P.	SECTION	COUNTY TOTAL SHEET
J:\13155\60Y42\DGN\CADD Sheets\D160Y42-	sht-ts-47_5760.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE		2014-044TS	COOK 65 62
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	SAUK TRAIL AT TORRENCE AVENUE			CONTRACT NO. 60Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS   SHEET NO. 1 OF 1 SHEETS   STA. N/A TO STA. N/A		ILLINOIS FED. A	ID PROJECT





#### * SINGLE ENTRY PHASE O.L. OVERLAP ← - (*) - → PEDESTRIAN PHASE

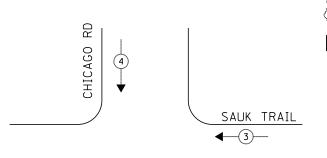
**LEGEND** 

NUMBER REFERS TO ASSOCIATED PHASE

* DUAL ENTRY PHASE

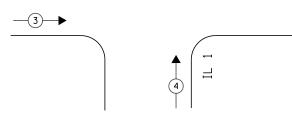
#### PHASE DESIGNATION DIAGRAM

#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**



PUSH BUTTON	ı "C"	PLACES	A	CALL	ΙN	PHASE	2	AND	4

NOTE:



NCAND. LED

WATTAGE XOPERATION WATTAGE

TOTAL =

341.2

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

PHONE: (708) 235-2692

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN

TYPE

SIGNAL (RED)

LLUM. SIGN /IDEO SYSTEM

ENERGY COSTS TO:

(YELLOW) (GREEN)

EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4			
MOVEMENT	<b>=</b>	↓†			

## CHICAGO ROAD мапр 0 ¥ 2 ∰

## \$(\$)O(-)= RED LIGHT PHOTO ENFORCED INTERSECTION VENDOR: REDSPEED ILLINOIS

SAUK TRAIL

#### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1 6 1 1 1 7	EACH EACH EACH EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL PEDESTRIAN PUSH-BUTTON, NON-LATCHING

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

ROUTE

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

**CABLE PLAN** 

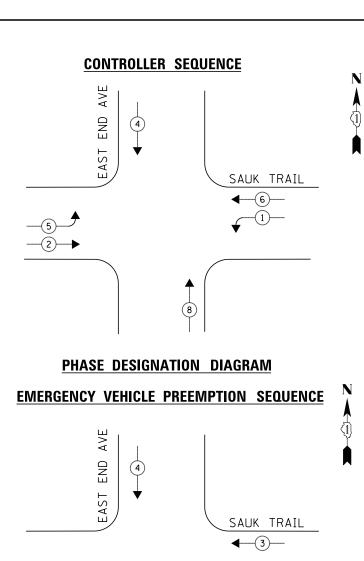
PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON EACH

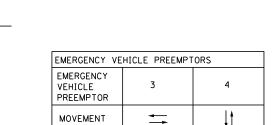
ECONOLITE ASC/2S-1000 CONTROLLER ON-SITE

TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM

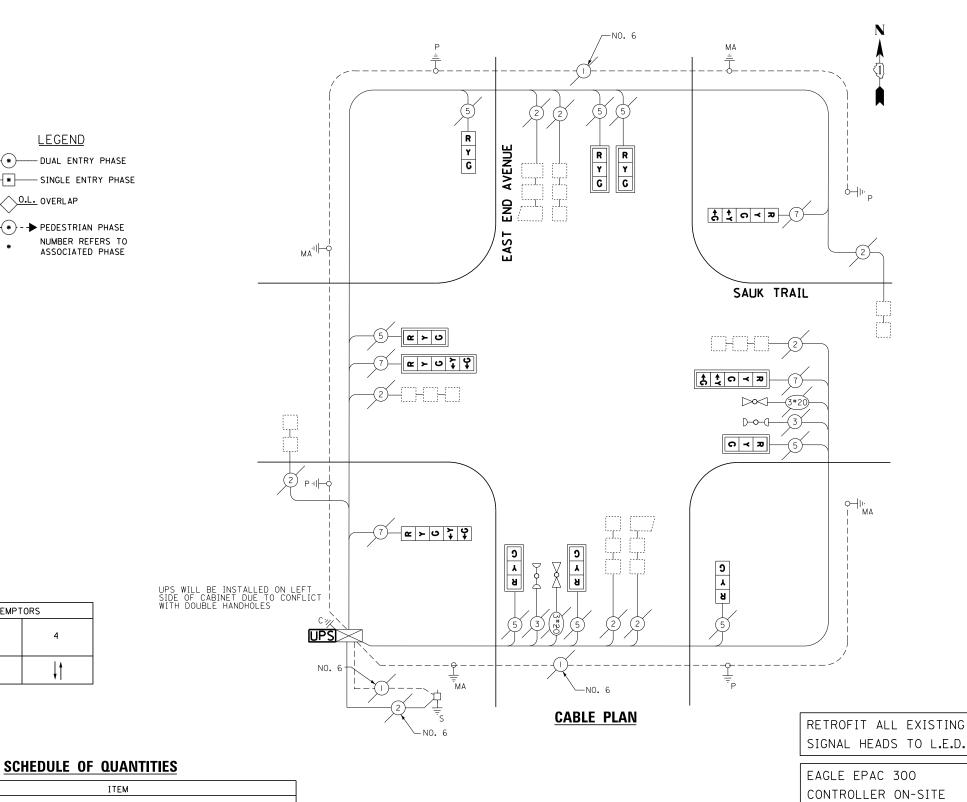
TS# 1860 SOUTH CHICAGO HEIGHTS

COMPANY: CO	MMONWEALTH EDISON									
FILE NAME =	USER NAME = _USER_	DESIGNED - V.O.	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P. RTF.	SECTION	COUNTY	TOTAL	SHEET NO.
J:\13155\60Y42\DGN\CADD Sheets\D160Y42	sht-ts-48_1860.dgn	DRAWN - E.C.	REVISED -	STATE OF ILLINOIS	EMERGENCY VEHICLE PREEMPTION SEQUENCE		2014-044TS	СООК	65	63
	PLOT SCALE = 20.0000 ' / in.	CHECKED - I.Y.	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 1 (CHICAGO ROAD) AT SAUK TRAIL			CONTRAC	T NO.	50Y42
	PLOT DATE = 7/9/2014	DATE - 7/11/2014	REVISED -		SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. AI			





QUANTITY UNIT



TRAF ELECTR	TOTAL						
TYPE	NO LAMPS	WATT	AGE	%OPERATION	WATTAGE		
		INCAND.	LED				
SIGNAL (RED)	12		17	0.5	102		
(YELLOW)	12		25	0.25	75		
(GREEN)	12		15	0.25	45		
ARROW	8		12	0.10	9.6	Ξ	
PED. SIGNAL	-		25	1.00	-	Ξ	
CONTROLLER	1		100	1.00	100		
ILLUM. SIGN			25	0.05	-		
VIDEO SYSTEM			1	1.00	ı		
	·						
			· · · · · · · · · · · · · · · · · · ·				

ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN PHONE: (708) 235-2692

TOTAL = ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

#### MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT

ITEM

SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

**LEGEND** 

* DUAL ENTRY PHASE

O.L. OVERLAP

← - (*) - → PEDESTRIAN PHASE

--- SINGLE ENTRY PHASE

NUMBER REFERS TO

ASSOCIATED PHASE

## TS# 5075 SOUTH CHICAGO HEIGHTS

SHALL BE EAGLE TO

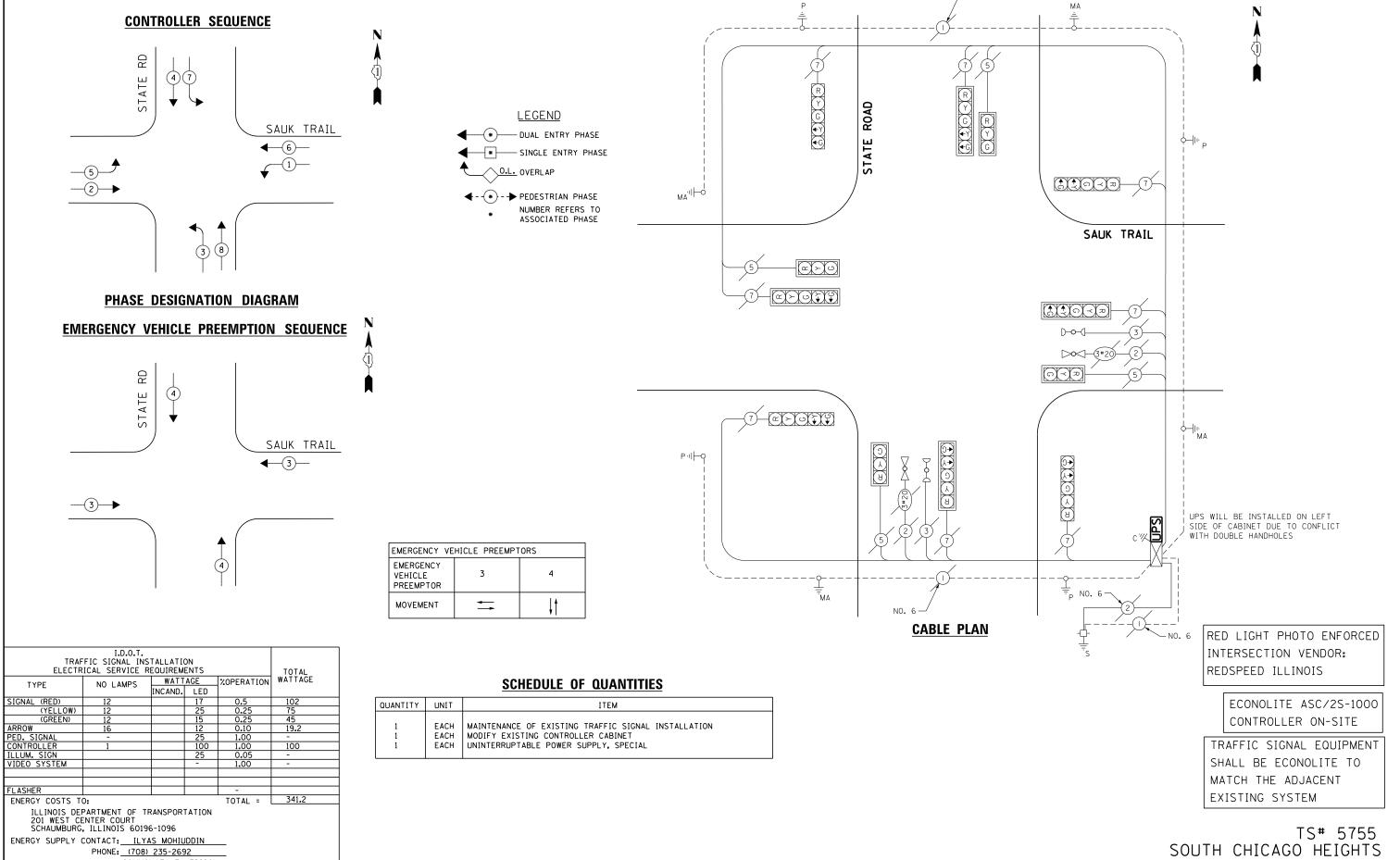
MATCH THE ADJACENT

EXISTING SYSTEM

TRAFFIC SIGNAL EQUIPMENT

COMPANY: COMMONWEALTH EDISON DESIGNED - V.O. REVISED SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SECTION COUNTY STATE OF ILLINOIS :\13155\60Y42\DGN\CADD Sheets\D160Y4 t-ts-49_5075.dan DRAWN E.C. REVISED **EMERGENCY VEHICLE PREEMPTION SEQUENCE** COOK 65 64 2014-044TS CHECKED - I.Y. REVISED **DEPARTMENT OF TRANSPORTATION** EAST END AVENUE AT SAUK TRAIL CONTRACT NO. 60Y42 SHEET NO. 1 OF 1 SHEETS STA. N/A DATE REVISED PLOT DATE = 7/9/2014 7/11/2014





COMPANY: COMMONWEALTH EDISON DESIGNED - V.O. REVISED SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SECTION COUNTY STATE OF ILLINOIS :\13155\60Y42\DGN\CADD Sheets\D160Y42 nt-ts-50_5755.dan DRAWN E.C. REVISED **EMERGENCY VEHICLE PREEMPTION SEQUENCE** COOK 65 65 2014-044TS SAUK TRAIL AT STATE ROAD CHECKED - I.Y. REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60Y42 SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A DATE REVISED PLOT DATE = 7/9/2014 7/11/2014