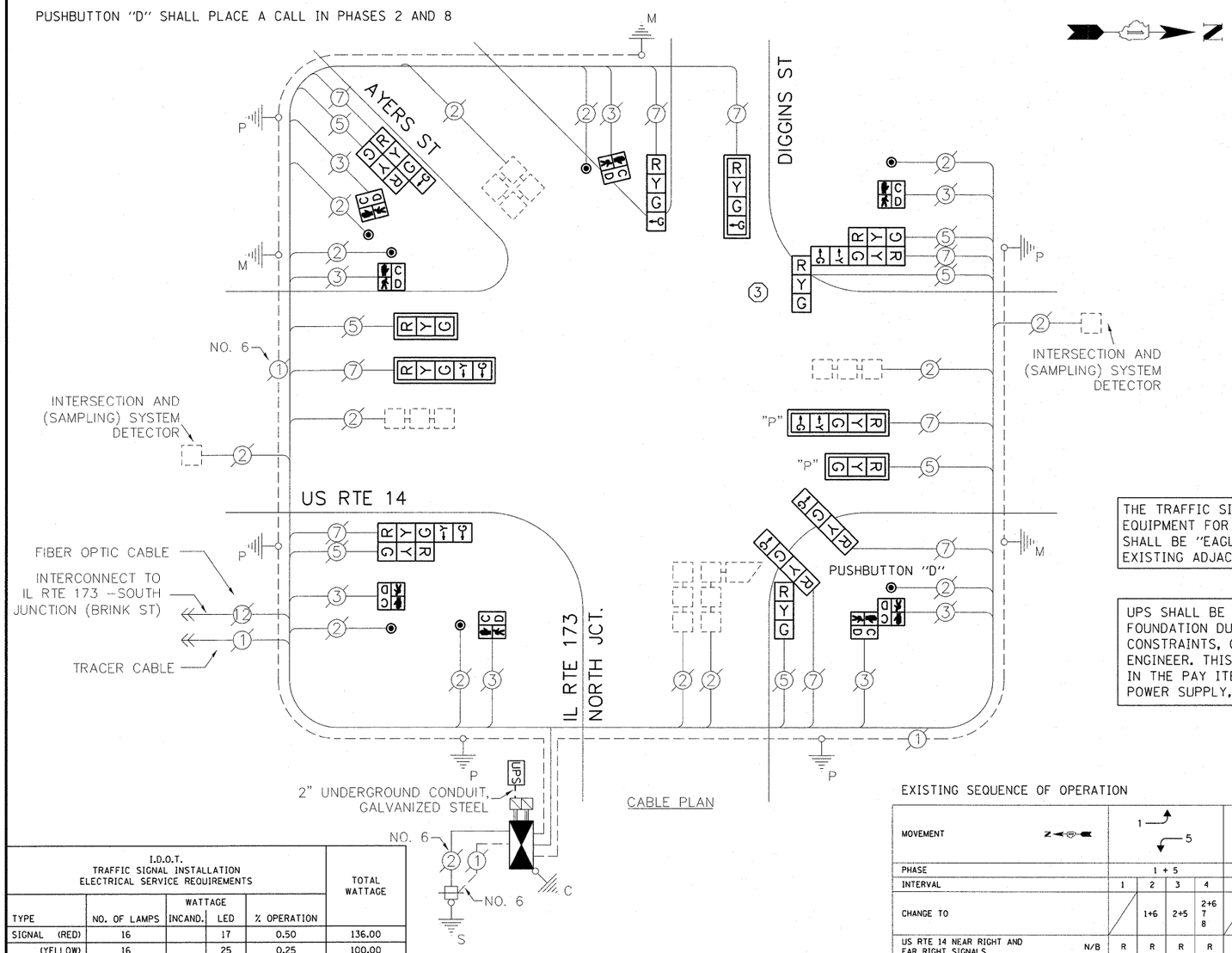
NOTE:

PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8



CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	15
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER-FIBER OPTIC	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT	EACH	1
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED	EACH	1
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAM	EACH	1
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAM	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BM WITH COUNTDOWN TIMER	EACH	6
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BM WITH COUNTDOWN TIMER	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	5
INDUCTIVE LOOP DETECTOR	EACH	7
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	7
UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED	EACH	1

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM

UPS SHALL BE INSTALLED ON A SEPARATE FOUNDATION DUE TO PHYSICAL CONSTRAINTS, OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED"

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR 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.

7	EACH	SIGNAL HEAD, 3-SECTION
5	EACH	SIGNAL HEAD, 4-SECTION
4	EACH	SIGNAL HEAD, 5-SECTION
5	EACH	TRAFFIC SIGNAL BACKPLATE
8	EACH	PEDESTRIAN SIGNAL HEAD
7	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	STEEL POST
1	EACH	CONTROLLER AND CABINET (COMPLETE)

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. OF LAMPS	INCAND.	LED	% OPERATION	
SIGNAL (RED)	16		17	0.50	136.00
(YELLOW)	16		25	0.25	100.00
(GREEN)	21		15	0.25	78.75
ARROW	8		12	0.10	9.60
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	-		25	0.05	-
VIDEO SYSTEM	-		-	1.00	-
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	624.35

CITY OF HARVARD

201 WEST DIGGINS STREET
HARVARD, IL 60033

ENERGY SUPPLY: CONTACT: MIKE LENOX
PHONE: (815) 490-2869
COMPANY: COMMONWEALTH EDISON

1. REPLACE 14FT PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
2. REPLACE 15FT PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
3. REPLACE 16FT PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
4. REPLACE 18FT PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

EXISTING SEQUENCE OF OPERATION

MOVEMENT		1 5				1 6 P P							P P 2 5							P P 2 6 P P				P P 7 P				P P 8 P				FLASH
PHASE		1 + 5				1 + 6							2 + 5							2 + 6				7				8				
INTERVAL		1	2	3	4	5	6	7A	7B	8A	8B	9	10	11	12A	12B	13A	13B	14	15	16	17A	17B	18	19	20A	20B	21	22	23A	24B	
CHANGE TO			1+6	2+5	2+6 7 8	Ø	Ø	1+5 7		2+5 8		2+6	Ø	Ø	1+5		1+6 7 8		2+6			7 8				8, 1+6, 2+6	1+5 2+5			1+5, 2+5, 2+6 7	1+6	
US RTE 14 NEAR RIGHT AND FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	Y	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R
US RTE 14 END MAST ARM AND FAR LEFT SIGNALS	N/B	R ← G	R ← Y	R ← G	R ← Y	R	R	R	R	R	R	R	G ← G	G ← G	Y ← G	R ← G	R	R	G ← Y	G	G	Y	R	R	R	R	R	R	R	R	R	R
US RTE 14 NEAR RIGHT AND FAR RIGHT SIGNALS	S/B	R	R	R	R	G	G	Y	R	Y	R	G	R	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R
US RTE 14 END MAST ARM AND FAR LEFT SIGNALS	S/B	R ← G	R ← G	R ← Y	R ← Y	G ← G	G ← G	Y ← G	R ← G	Y	R	G ← Y	R	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R
AYER STREET NEAR RIGHT SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R
AYER STREET FAR RIGHT AND FAR LEFT SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G ← G	G ← G	Y	R	R	R	R	R	R
IL RTE 173 NEAR RIGHT AND FAR RIGHT SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
IL RTE 173 MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G ← G	G ← G	Y	R	R
PEDESTRIANS CROSSING AYER STREET WEST OF US RTE 14		DW	DW	DW	DW	W*	FL** DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W*	FL** DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DARK
PEDESTRIANS CROSSING IL RTE 173 EAST OF US RTE 14		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W*	FL** DW	DW	DW	DW	DW	DW	W*	FL** DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	
PEDESTRIANS CROSSING SOUTH LEG OF US RTE 14		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W*	FL** DW	DW	DW	DW	DW	DW	DW	
PEDESTRIANS CROSSING NORTH LEG OF US RTE 14		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W*	FL** DW	DW	DW	

FILE NAME = #FILEABBREV#	USER NAME = plascencia	DESIGNED - IP	REVISED -
		DRAWN - IP	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - AW	REVISED -
	PLOT DATE = 10/27/2011	DATE - 10/25/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 14 AND IL RTE 173 (NORTH JCT.)/DIGGINS ST /AYERS ST

SCALE: 1" = | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	2011-208-TS	McHENRY	57	16
		CONTRACT NO. 60R37		
	ILLINOIS			