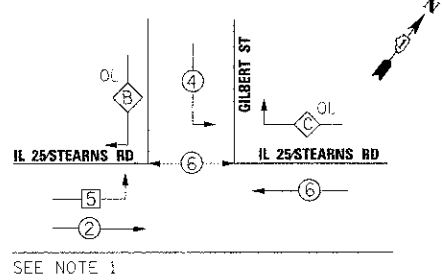


**CONTROLLER SEQUENCE**



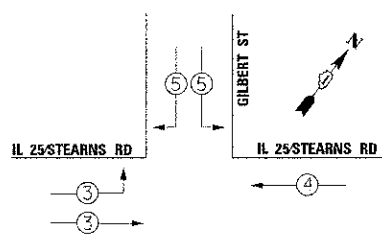
**LEGEND**

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- ◇ OVERLAP
- PEDESTRIAN PHASE
- \* NUMBER REFERS TO ASSOCIATED PHASE

**PHASE DESIGNATION DIAGRAM**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	4	5
C	6	4

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTORS	3	4	5
MOVEMENT	→	←	↑

SEE NOTE 2

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

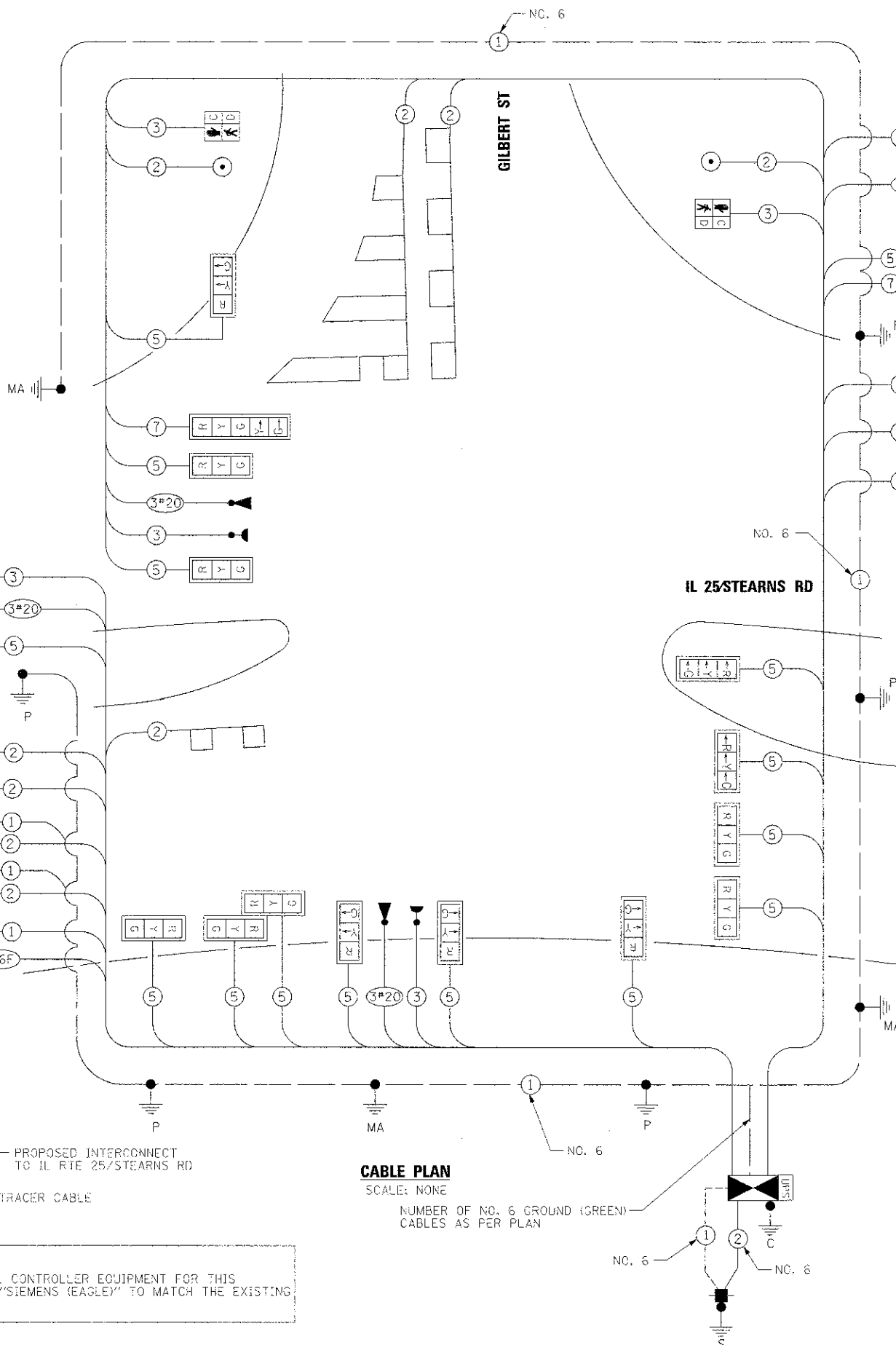
TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	17	-	17	0.50	144.5
(YELLOW)	17	-	25	0.25	106.25
(GREEN)	17	-	15	0.25	63.75
ARROW	2	-	12	0.10	2.4
PED. SIGNAL	2	-	25	1.00	50.0
CONTROLLER	1	-	100	1.00	100.0
FLASHER	2	-	25	0.50	12.5

ENERGY COSTS TO: TOTAL = 479.4

**ILLINOIS DEPARTMENT OF TRANSPORTATION**

201 W. CENTER COURT  
SCHALMUR, ILLINOIS 60196  
ENERGY SUPPLY CONTACT: MARTY RUBIN  
PHONE: 847-608-2400  
COMPANY: COMED

**NOTE:**  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "SIEMENS (EAGLEY)" TO MATCH THE EXISTING ADJACENT SYSTEM.



**NOTES:**

- YELLOW FLASHING BEACONS FACING NORTHBOUND IL 25 AT THE CCPRR SHALL BE ACTIVATED DURING PHASE 2 YELLOW AND RED INTERVALS AND WHEN THE TRAFFIC SIGNALS ARE IN ALL WAY RED FLASH. THE YELLOW BEACONS SHALL NOT FLASH DURING PHASE 2 GREEN INTERVAL.
- YELLOW FLASHING BEACONS FACING NORTHBOUND IL 25 AT THE CCPRR SHALL BE ACTIVATED DURING EMERGENCY VEHICLE PREEMPTION PHASES 4 & 5 GREEN, YELLOW AND ALL RED INTERVALS. THESE YELLOW FLASHING BEACONS SHALL NOT FLASH DURING EMERGENCY VEHICLE PREEMPTION 3 GREEN INTERVAL.

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	TOTAL
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	382
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	610
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	45
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	649
HANDHOLE	EACH	8
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	3
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,968
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,417
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,962
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	607
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,890
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	37
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2,125
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	39
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	17
INDUCTIVE LOOP DETECTOR	EACH	8
PREFORMED DETECTOR LOOP	FOOT	683
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	4
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	10
REMOVE EXISTING CONCRETE FOUNDATION	EACH	10
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	564
RELOCATE EXISTING SIGN PANEL (SPECIAL)	EACH	3
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
POST MOUNTED FLASHING BEACON INSTALLATION (SPECIAL)	EACH	2
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1