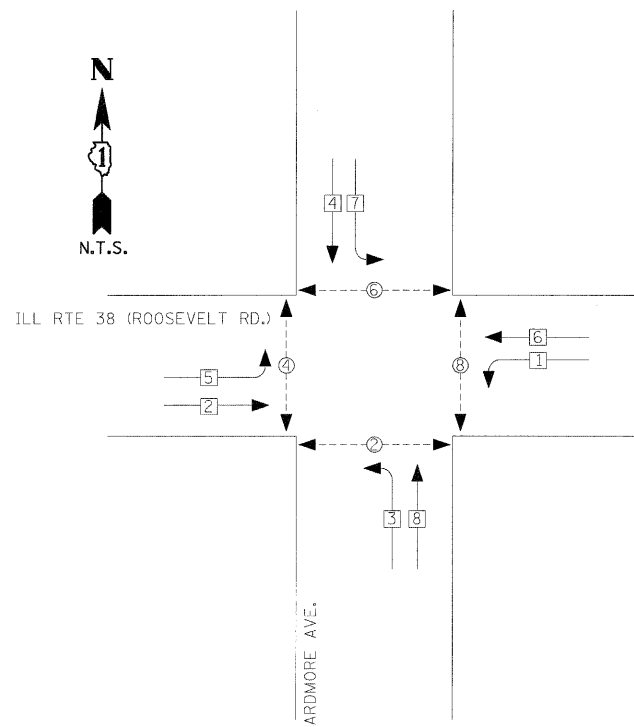


**CONTROLLER SEQUENCE**



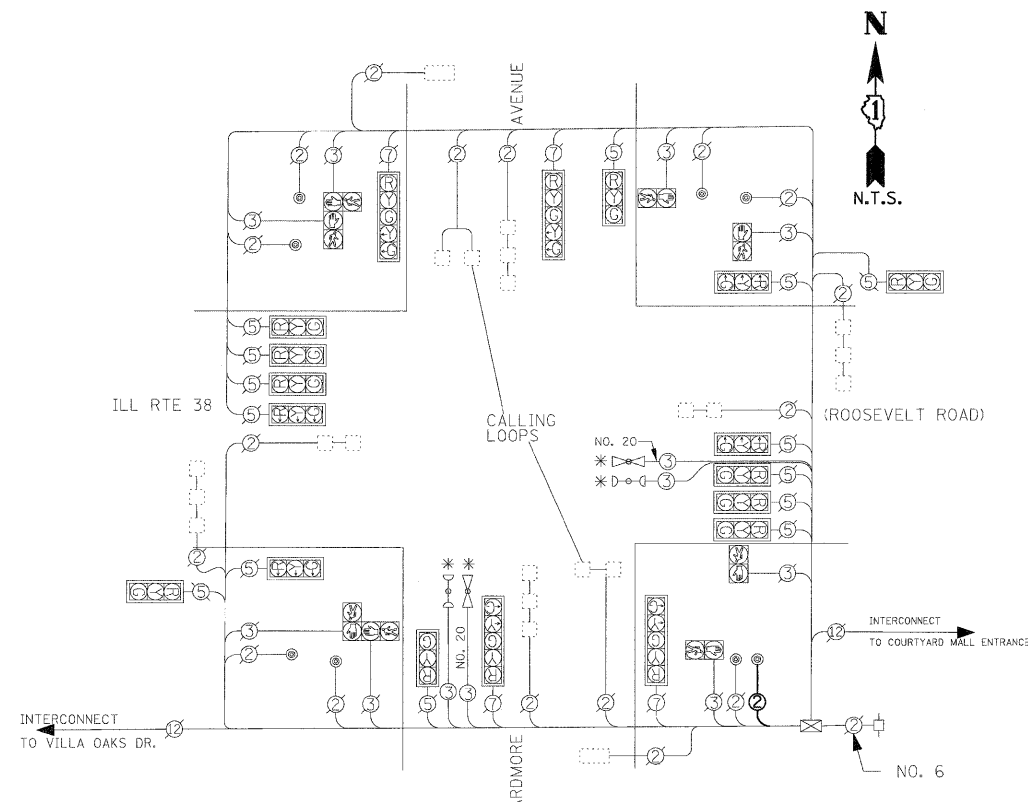
**PHASE DESIGNATION DIAGRAM**

**LEGEND**

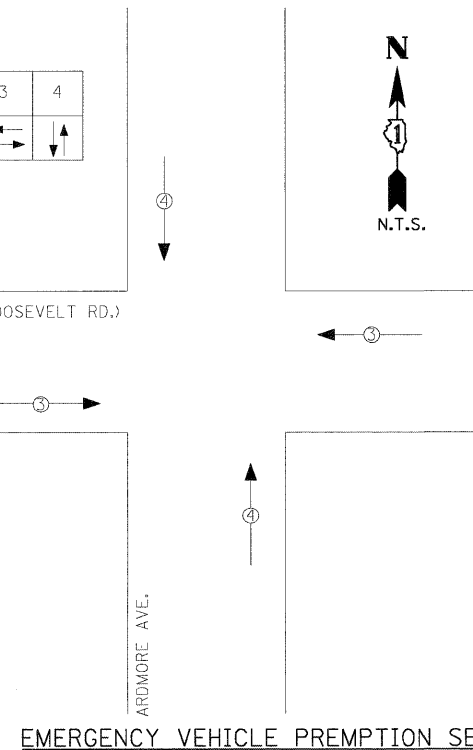
- ←○→ DUAL ENTRY PHASE
- ←□→ SINGLE ENTRY PHASE
- ↻ OVERLAP
- ←○→ PEDESTRIAN PHASE
- \* NUMBER REFERS TO ASSOCIATED PHASE

**CABLE PLAN LEGEND**

- |                 |                 |  |
|-----------------|-----------------|--|
| <b>EXISTING</b> | <b>PROPOSED</b> |  |
|                 |                 | 8" (200mm) TRAFFIC SIGNAL SECTION  |
|                 |                 | 12" (300mm) TRAFFIC SIGNAL SECTION   |
|                 |                 | 12" (300mm) PEDESTRIAN SIGNAL SECTION  |
|                 |                 | 12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER   |
|                 |                 | CONTROLLER CABINET   |
|                 |                 | SERVICE INSTALLATION   |
|                 |                 | TELEPHONE INSTALLATION   |
|                 |                 | VEHICLE DETECTOR, INDUCTION LOOP   |
|                 |                 | MAGNETIC DETECTOR  |
|                 |                 | EMERGENCY VEHICLE LIGHT DETECTOR   |
|                 |                 | CONFIRMATION BEACON  |
|                 |                 | PUSHBUTTON DETECTOR  |
|                 |                 | DENOTES NUMBER OF CONDUCTORS.<br>ALL CABLE NO. 14 EXCEPT AS INDICATED.<br>ALL LOOP DETECTOR CABLE TO BE SHIELDED.<br>GROUND CABLE IN CONDUIT<br>NO. 6 SOLID COPPER (GREEN)<br>INTERCONNECT CABLE - NO. 62.5/125 12F<br>FIBER OPTIC CABLE<br>SIGNAL FACE WITH BACKPLATE<br>"P" INDICATES PROGRAMMED HEAD. |



PRIORITY LANE INTERVAL	3	4
MOVEMENT	←	↑



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	18	-	17	0.50	153.0
(YELLOW)	18	-	25	0.25	112.5
(GREEN)	18	-	15	0.25	67.5
ARROW	8	-	12	0.10	9.6
PED. SIGNAL	8	-	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0

ENERGY COSTS TO: TOTAL = 642.6

**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: DEB RANKIN  
PHONE: (630) 691-4379  
COMPANY: COMED

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2-
C - M. ARM POLE		SIGNAL POST	2 (1.0)	(6m+L-0.6m)	
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

ITEM	UNITS	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	16
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FEET	7
HANDHOLE TO BE ADJUSTED	EACH	1
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	6
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	113
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FEET	8
DRILL EXISTING HANDHOLE	EACH	2
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
RELOCATE EXISTING PEDESTRIAN PUSH BUTTON	EACH	3
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	108
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	53