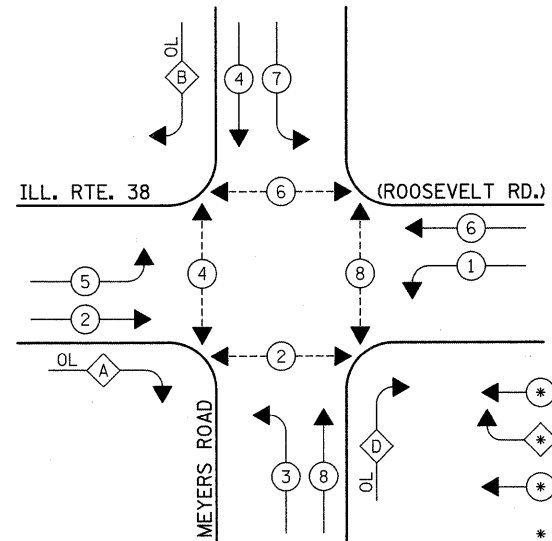


**CONTROLLER SEQUENCE**



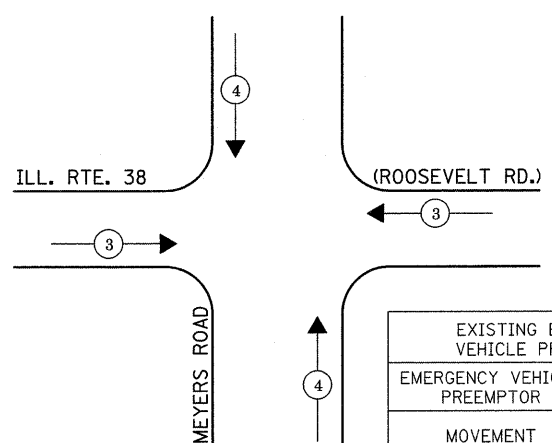
**LEGEND**  
 \* DUAL ENTRY PHASE  
 OL OVERLAP  
 \* PEDESTRIAN PHASE  
 \* NUMBER REFERS TO ASSOCIATED PHASE

**EXISTING PHASE DESIGNATION DIAGRAM**

**RIGHT TURN OVERLAP PHASE DESIGNATION**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
D	= 8	+ 1

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



EXISTING EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	← → ↑ ↓

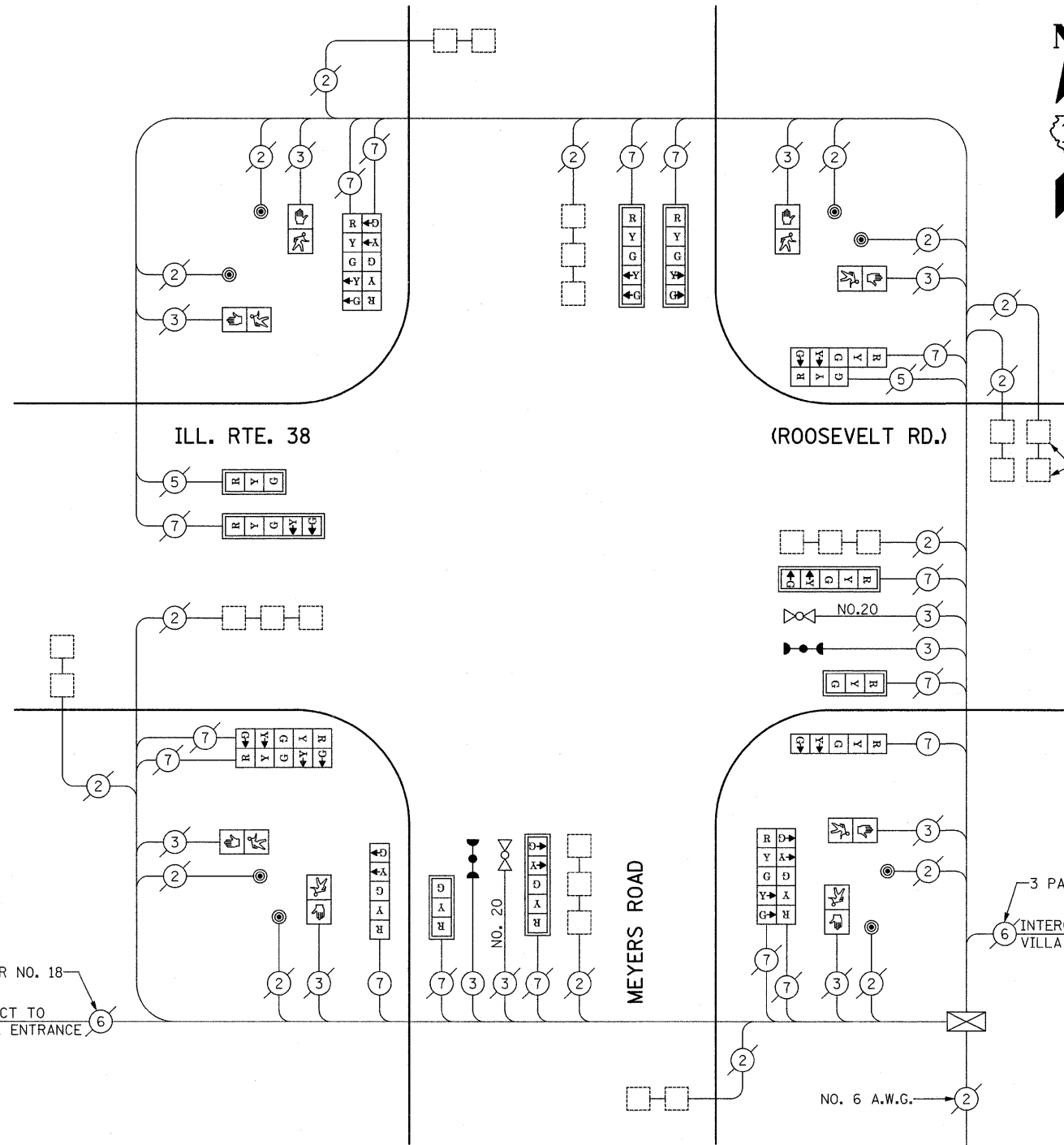
**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701601
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701701
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701801
*250	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
208	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
5	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3,SECTION, 1-5 SECTION, BRACKET MOUNTED
8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE
*2	EACH	CONFIRMATION BEACON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
315	FOOT	THERMOPLASTIC PAVEMENT MARKING LINE - 6"

\*100% COST TO VILLAGE OF LOMBARD

**CABLE PLAN LEGEND**

- | EXISTING | PROPOSED |   |
|----------|----------|---|
|          |          | 8" (200mm) TRAFFIC SIGNAL SECTION   |
|          |          | 12" (300mm) TRAFFIC SIGNAL SECTION  |
|          |          | 12" (300mm) PEDESTRIAN SIGNAL SECTION   |
|          |          | 12" (300mm) PEDESTRIAN SIGNAL SECTION   |
|          |          | CONTROLLER CABINET  |
|          |          | SERVICE INSTALLATION  |
|          |          | TELEPHONE INSTALLATION  |
|          |          | VEHICLE DETECTOR, INDUCTION LOOP  |
|          |          | MAGNETIC DETECTOR   |
|          |          | EMERGENCY VEHICLE LIGHT DETECTOR  |
|          |          | CONFIRMATION BEACON   |
|          |          | PUSH-BUTTON DETECTOR  |
|          |          | 2 DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
|          |          | 1 GROUND CABLE IN CONDUIT NO.6 SOLID COPPER (GREEN)   |
|          |          | 24 FIBER OPTIC CABLE IN CONDUIT NO. 62.5125 2-MM12F & SM12F   |
|          |          | SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.  |
|          |          | RAILROAD CONTROL CABINET  |
|          |          | ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"  |
|          |          | ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"   |
|          |          | H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER  |
|          |          | P GROUND ROD AT POST OR MAST ARM POLE   |
|          |          | S GROUND ROD AT ELECTRIC SERVICE INSTALLATION   |
|          |          | LOCAL AND MASTER CONTROLLER   |
|          |          | MICROWAVE VEHICLE SENSOR  |
|          |          | UPS-BATTERY BACK-UP   |



**CABLE DIAGRAM**

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.

1	EACH	SIGNAL HEAD 1-FACE, 3-SECTION, MAST ARM MOUNTED
7	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION BRACKET MOUNTED
8	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED