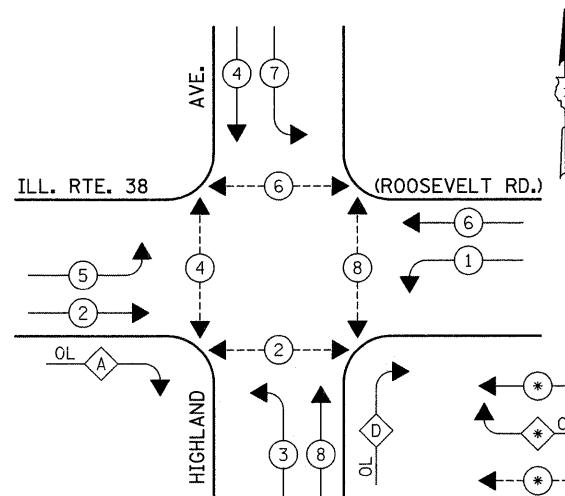


**CONTROLLER SEQUENCE**



- LEGEND**
- \* DUAL ENTRY PHASE
  - OL OVERLAP
  - PEDESTRIAN PHASE

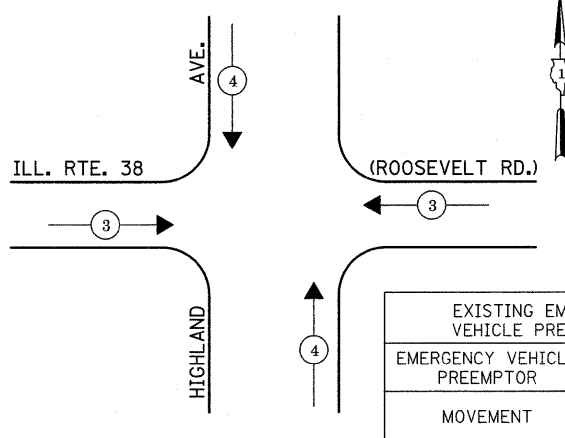
**EXISTING PHASE DESIGNATION DIAGRAM**

\* NUMBER REFERS TO ASSOCIATED PHASE

**RIGHT TURN OVERLAP PHASE DESIGNATION**

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

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



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

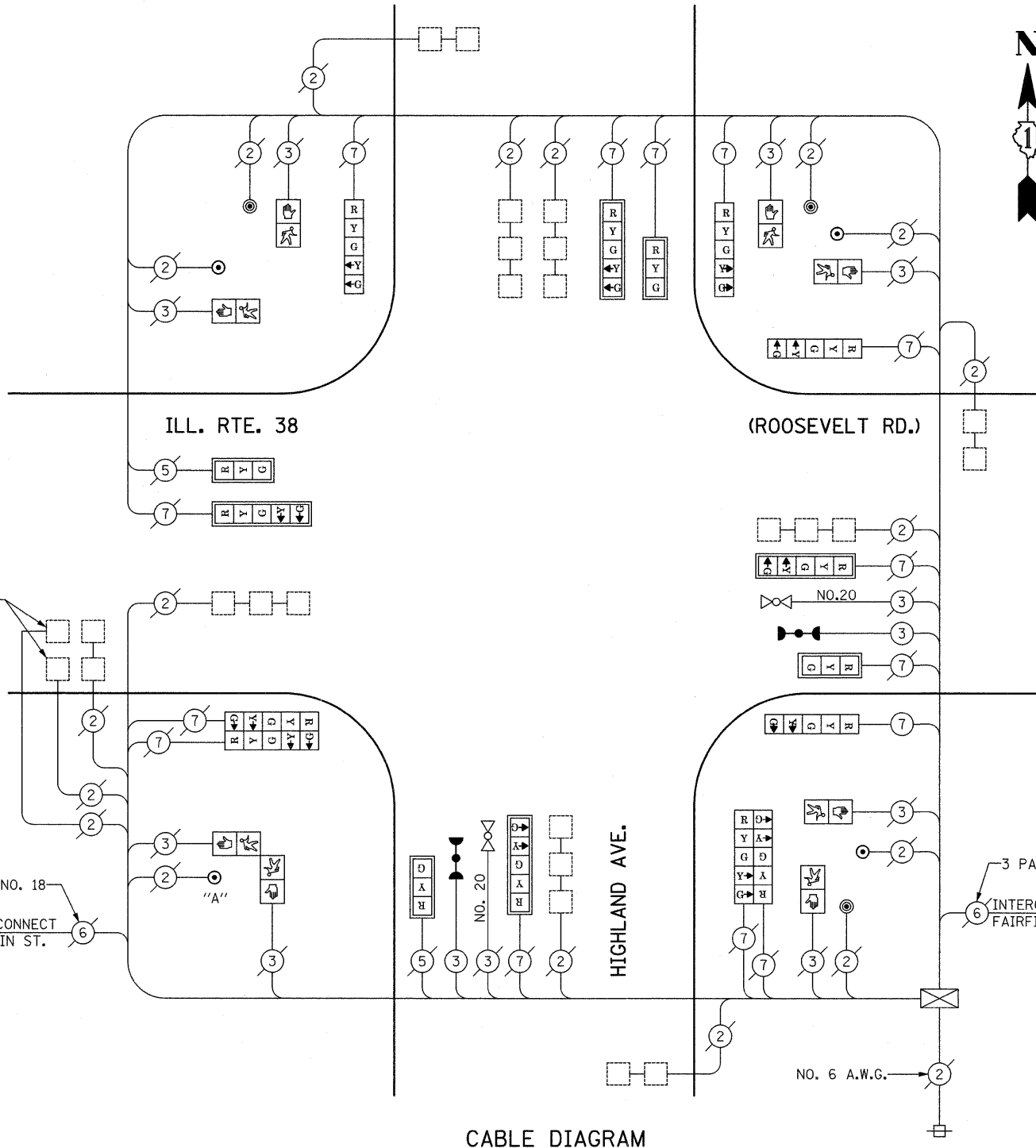
**SCHEDULE OF QUANTITIES**

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
*289	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
262	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	PEDESTRIAN PUSH-BUTTON
*2	EACH	CONFIRMATION BEACON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

\*100% COST TO VILLAGE OF LOMBARD

EXISTING SAMPLING (SYSTEM) DETECTORS

3 PAIR NO. 18 INTERCONNECT TO MAIN ST.



**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.

- 4 EACH TRAFFIC SIGNAL POST, 16 FT.
- 2 EACH SIGNAL HEAD 1-FACE, 3-SECTION, MAST ARM MOUNTED
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION, BRACKET MOUNTED
- 6 EACH SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED
- 2 EACH SIGNAL HEAD, 2-FACE, 5-SECTION, BRACKET MOUNTED
- 1 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED
- 6 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
- 5 EACH PEDESTRIAN PUSH-BUTTON

**PUSH-BUTTON NOTE:**

PUSH-BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4

**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. 62.5/125 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                                                                                           |