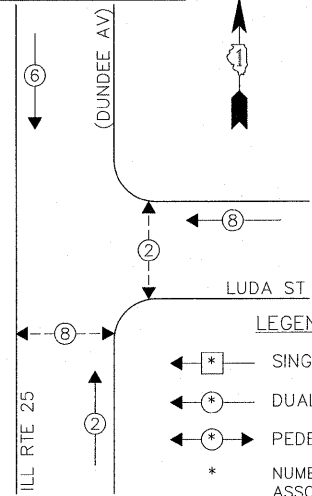
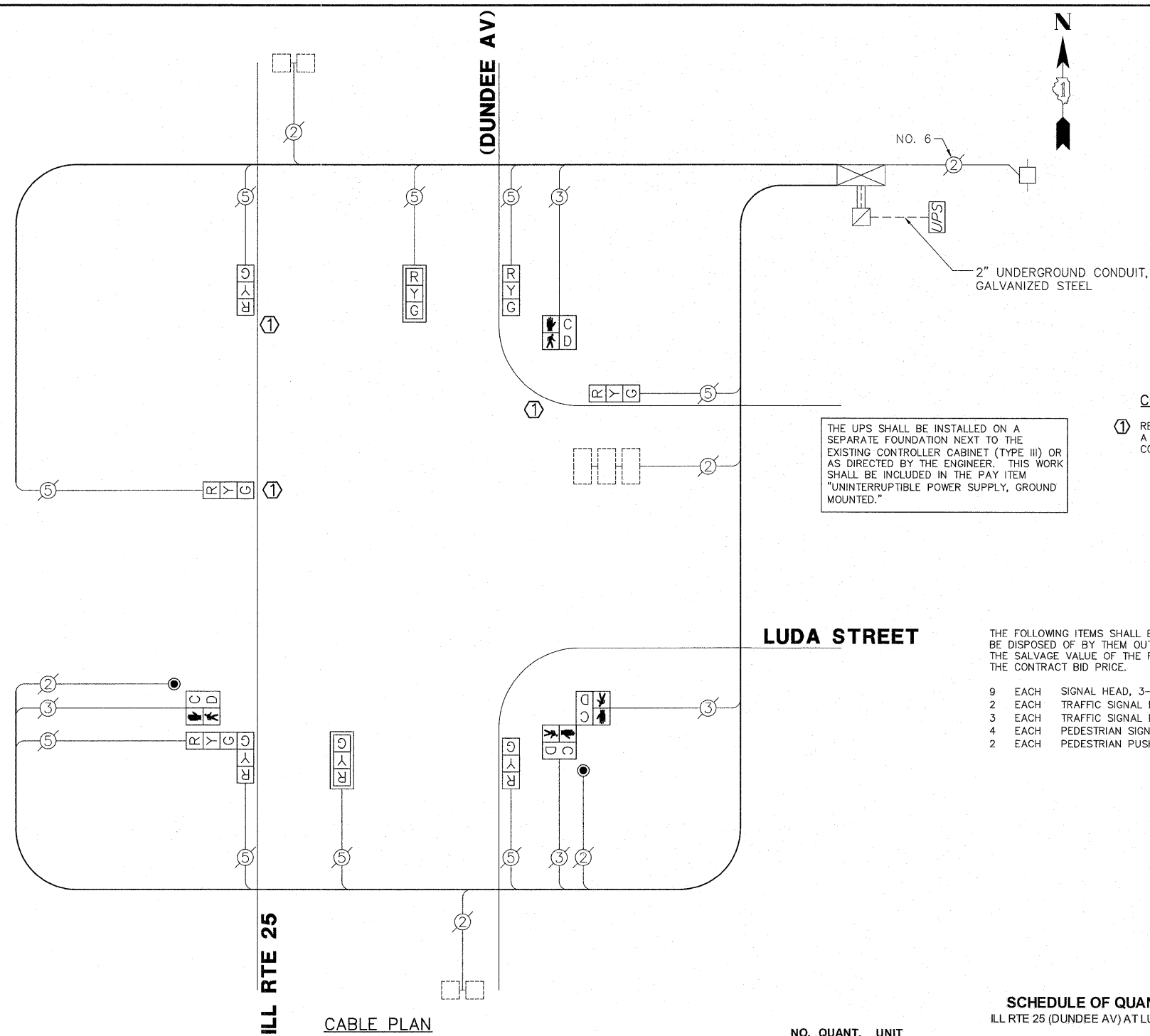


**CONTROLLER SEQUENCE**



- LEGEND:**
- ◀ \* → SINGLE ENTRY PHASE
  - ◀ \* → DUAL ENTRY PHASE
  - ◀ \* → PEDESTRIAN PHASE
  - \* NUMBER REFERS TO ASSOCIATED PHASE
  - ◀ \* → OL OVERLAP

**PHASE DESIGNATION DIAGRAM**



THE UPS SHALL BE INSTALLED ON A SEPARATE FOUNDATION NEXT TO THE EXISTING CONTROLLER CABINET (TYPE III) OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED."

- CONSTRUCTION NOTES:**
- ① REPLACE EXISTING 10 FOOT PAINTED POST WITH A 14 FOOT POST. REUSE EXISTING TYPE A CONCRETE FOUNDATION AND EXISTING CABLES

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.

- 9 EACH SIGNAL HEAD, 3-SECTION
- 2 EACH TRAFFIC SIGNAL BACKPLATE
- 3 EACH TRAFFIC SIGNAL POST
- 4 EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH PEDESTRIAN PUSH-BUTTON

**CABLE PLAN**

**SCHEDULE OF QUANTITIES**  
ILL RTE 25 (DUNDEE AV) AT LUDA STREET

NO.	QUANT.	UNIT	DESCRIPTION
1.	15	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
2.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3.	3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
4.	1	EACH	DRILL EXISTING HANDHOLE
5.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
6.	5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
7.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
8.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
9.	1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
10.	2	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
11.	2	EACH	PEDESTRIAN PUSH-BUTTON
12.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
13.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
14.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	9	135	17	0.50	76.5
SIGNAL (YELLOW)	9	135	25	0.25	56.25
SIGNAL (GREEN)	9	135	15	0.25	33.75
ARROW	-	135	12	0.10	100.0
PED. SIGNAL	4	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					391.5

ENERGY COSTS - BILLED TO: CITY OF ELGIN  
(ADDRESS) 150 DEXTER COURT  
(ADDRESS) ELGIN, IL 60120

ENERGY SUPPLY - CONTACT: -  
PHONE: -  
COMPANY: -