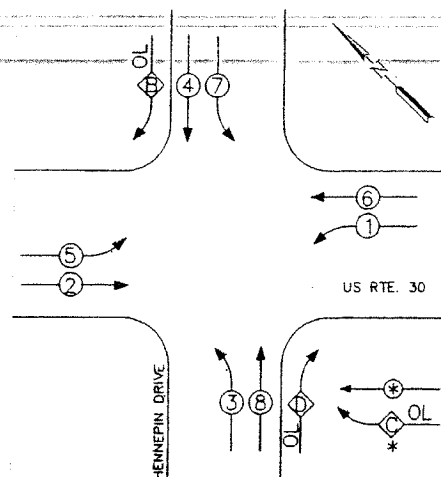


F.A.P. RTE. 1	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
575	14 RS-4	WILL	33	22
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62656				

**CONTROLLER SEQUENCE**



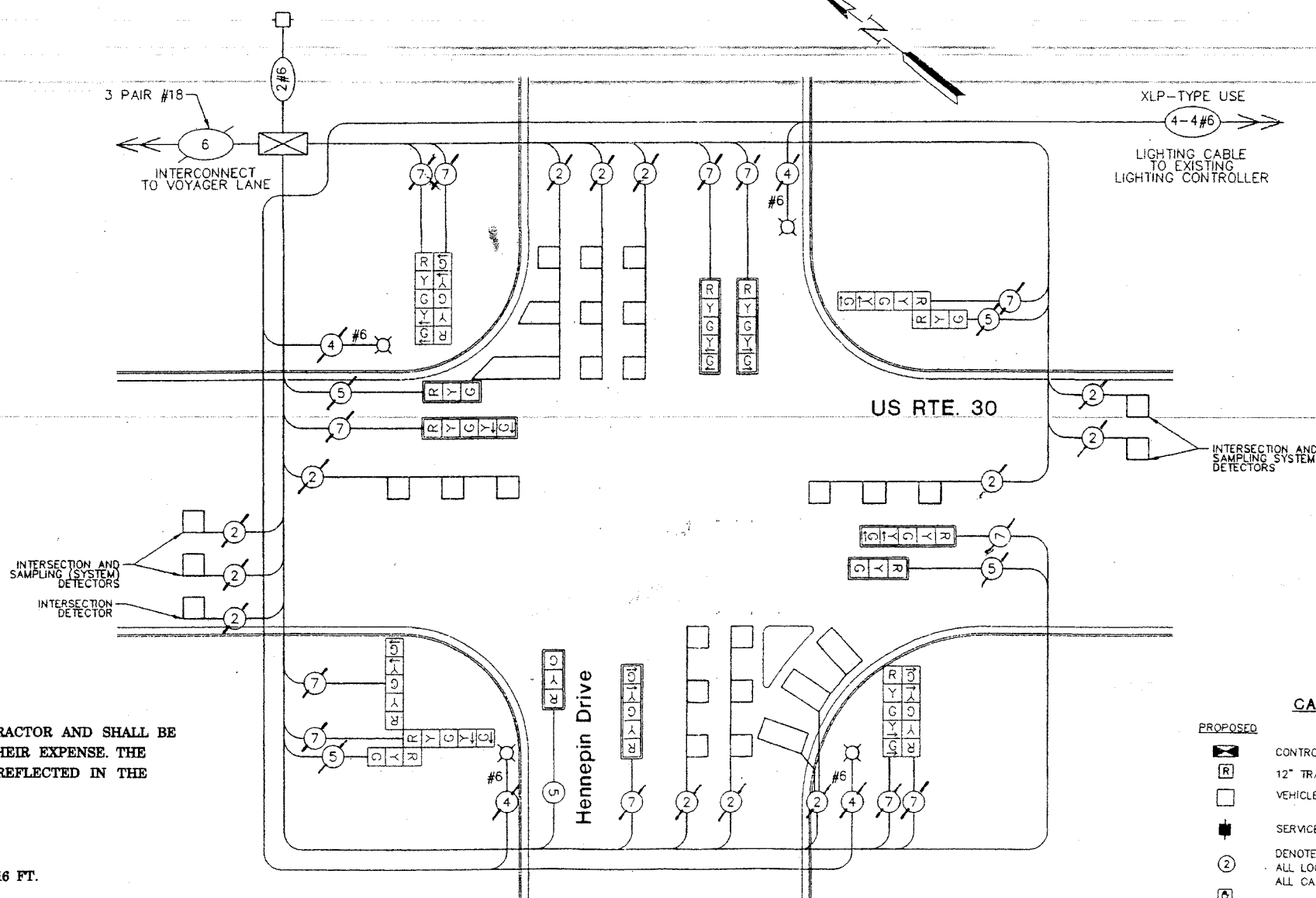
**LEGEND**  
 ⊕ DUAL ENTRY PHASE  
 ⊕ OL OVERLAP PHASE  
 \* NUMBERS REFER TO ASSOCIATED PHASE

**PHASE DESIGNATION DIAGRAM**

OVERLAP LETTER	RIGHT TURN PERMISSIVE PHASE	OVERLAP PHASE	OVERLAP PHASE PROTECTED PHASE	DISPLAY
B	4	5	-	4
D	8	1	-	8

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 SIGNAL HEAD, 1-FACE, 3-SECTION
- 12 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 4 EACH TRAFFIC SIGNAL POST, GALVARNIZED STEEL, 16 FT.



**CABLE PLAN**

**CABLE PLAN LEGEND**

PROPOSED		EXISTING
⊗	CONTROLLER CABINET	⊗
[R]	12" TRAFFIC SIGNAL SECTION	[R]
□	VEHICLE DETECTOR INDUCTION LOOP	□
■	SERVICE INSTALLATION	■
②	DENOTES NUMBER OF CONDUCTORS. ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.	②
[R]	PEDESTRIAN SIGNAL FACE	[R]
⊙	PEDESTRIAN PUSH BUTTON	⊙
WITH [R] Y G	SIGNAL FACES WITH OR WITHOUT BACKPLATE	WITH [R] Y G
WITHOUT [R] Y G		WITHOUT [R] Y G

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	208
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 2-FACE, 5 SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION, 2-5 SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	XX OPERATION	
SIGNAL (RED)	17	135	17	0.50	144.5
(YELLOW)	17	135	25	0.25	106.0
(GREEN)	17	135	15	0.25	64.0
ARROW	24	135	12	0.10	29.0
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN	-	84	-	0.05	-
FLASHER	-	-	-	0.50	-
<b>TOTAL</b>					<b>443.5</b>

NOTE: IN ORDER TO MAINTAIN UNIFORMITY WITH ADJECENT TRAFFIC SIGNAL SYSTEMS MAINTAINED BY THE CITY OF JOLIET, THE NEW LIGHTING CABLE SHALL BE INSTALLED IN SHARED CONDUIT WITH THE TRAFFIC SIGNAL.

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
O - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' ± L - 2' (6m ± L - 0.6m) ±
E - M. ARM POLE	4 (1.2)	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.5)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES**  
 U.S. ROUTE 30 (LINCOLN HWY.) AT HENNEPIN DRIVE

SCALE: N.T.S.  
 DATE: 03-20-2007

DRAWN BY: SH  
 DESIGNED BY: SH  
 CHECKED BY: DAD