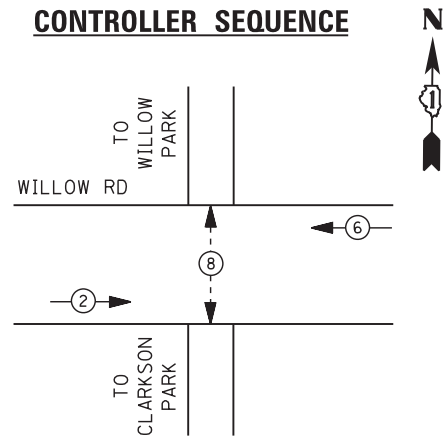
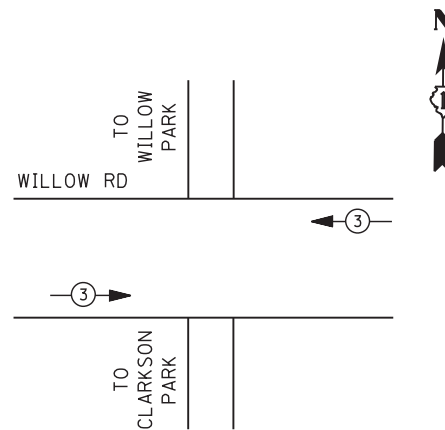


**CONTROLLER SEQUENCE**



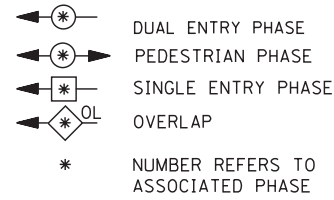
**PHASE DESIGNATION DIAGRAM**



**EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3
MOVEMENT	← →

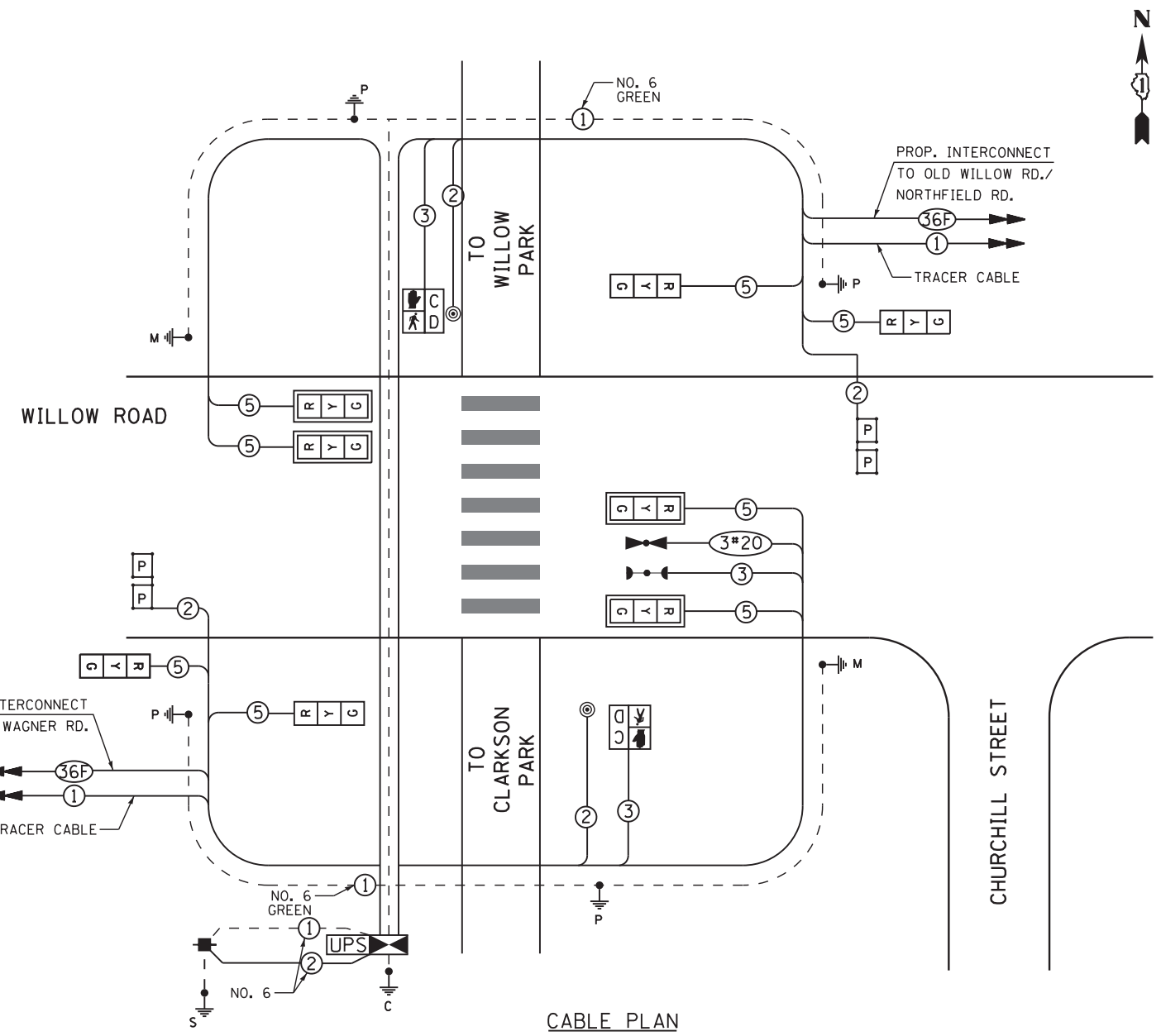
**LEGEND**



**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
664	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
70	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
68	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
110	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
3	EACH	HANDHOLE
1	EACH	DOUBLE HANDHOLE
1	EACH	TRANSCEIVER - FIBER OPTIC
180	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
290	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1052	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
692	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
115	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
519	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
16	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
22	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	TRAFFIC SIGNAL BACKPLATE, LED, 1-FACE, BRACKET MOUNTED
2	EACH	INDUCTIVE LOOP DETECTOR
118	FOOT	PREFORMED DETECTOR LOOP
* 1	EACH	LIGHT DETECTOR
* 1	EACH	LIGHT DETECTOR AMPLIFIER
2	EACH	PEDESTRIAN PUSH-BUTTON
* 96	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO 20 3/C
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
2	EACH	TRAFFIC SIGNAL POST, ALUMINUM 14 FT. (SPECIAL)
2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT. (SPECIAL)
2	EACH	TRAFFIC SIGNAL POST, ALUMINUM 10 FT. (SPECIAL)

\* 100% VILLAGE OF NORTHFIELD COST



I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	8	135	17	0.50	68
(YELLOW)	8	135	25	0.25	50
(GREEN)	8	135	15	0.25	30
ARROW		135	12	0.10	
PED. SIGNAL	2	90	25	1.00	50
CONTROLLER	1	100	100	1.00	100
TOTAL =					262

ENERGY COSTS- BILLED TO: IDOT - DISTRICT 1  
 201 W. CENTER CT.  
 SCHAUMBURG, IL 60196

ENERGY SUPPLY - CONTACT COMED  
 PHONE 630-723-2128

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

FILE NAME = N:\Projects\3\12027\Design\CAD\Sheet Files\DI160T35r\w\WLCabCH.dgn	USER NAME = \$USER\$	DESIGNED - KMM	REVISED -
PLOT SCALE = \$SCALE\$		DRAWN - CDC	REVISED -
PLOT DATE = 10/30/2012		CHECKED - JDH	REVISED -
		DATE - 10/31/2012	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, SCHEDULE OF QUANTITIES,  
 PHASE DESIGNATION DIAGRAM & EVP SEQUENCE  
 WILLOW RD AT WILLOW PARK/CLARKSON PARK PEDESTRIAN CROSSING  
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	(1920, .01, 1518, 2022 & 1922, 48R)	COOK	919	390
CONTRACT NO. 60T35				

ILLINOIS FED. AID PROJECT

TS-42