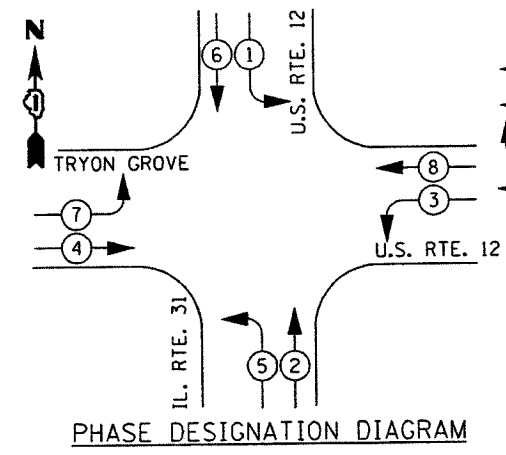


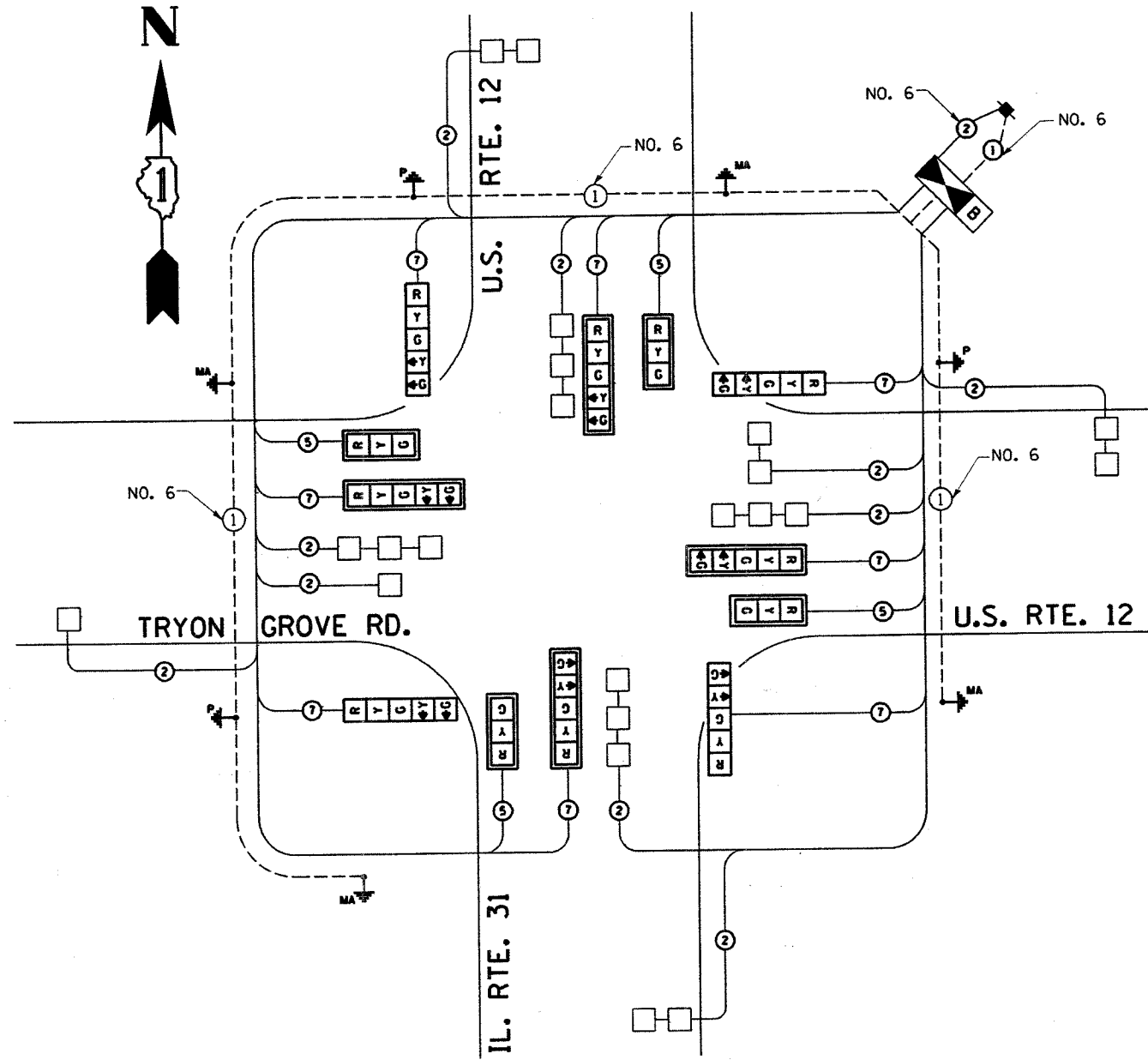
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	11RS-5&116 B-1	MCHEENRY	98	55
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT # 60A91				



- LEGEND**
- DUAL ENTRY PHASE
 - PROTECTED LEFT TURN PHASE
 - OVERLAP
 - PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGNAL PANEL - TYPE 1	FOOT	30
SIGNAL PANEL - TYPE 2	FOOT	15
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	990
CONDUIT IN PUSH, 2" DIA., GALVANIZED STEEL	FOOT	66
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	120
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	166
CONDUIT IN PUSH, 4" DIA., GALVANIZED STEEL	FOOT	152
HANDHOLE	EACH	7
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1281
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	850
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1545
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2000
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	12
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	580
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	528
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECT., BRKTED. MNTD.	EACH	4
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECT., MAST ARM MNTD.	EACH	4
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECT., MAST ARM MNTD.	EACH	4
SERVICE INSTALLATION, POLE MNTD.	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



CABLE PLAN LEGEND

- | | PROPOSED | EXISTING |
|--|----------|----------|
| CONTROLLER CABINET | | |
| RAILROAD CONTROL CABINET | | |
| SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT | | |
| TELEPHONE CONNECTION | | |
| GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE | | |
| FIBER OPTIC CABLE IN CONDUIT, NUMBER OF FIBERS AS NOTED | | |
| ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED, NUMBER OF CONDUCTORS AS NOTED | | |
| GROUND CABLE IN CONDUIT NO. 6 COPPER (GREEN) | | |
| SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD | | |
| 12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE | | |
| 12" (300mm) TRAFFIC SIGNAL SECTION | | |
| 12" (300mm) PEDESTRIAN SIGNAL SECTION | | |
| ILLUMINATED SIGN "NO LEFT TURN" | | |
| ILLUMINATED SIGN "NO RIGHT TURN" | | |
| PUSHBUTTON DETECTOR | | |
| DETECTOR LOOP | | |
| PERFORMED DETECTOR LOOP | | |
| MICROWAVE VEHICLE SENSOR | | |
| VIDEO DETECTOR | | |
| CLOSED CIRCUIT TV | | |
| EMERGENCY VEHICLE SYSTEM DETECTOR | | |
| CONFIRMATION BEACON | | |

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE (INCAN.)	WATTAGE (LED)	OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	102.00
(YELLOW)	24	135	25	0.25	150.00
(GREEN)	24	135	15	0.25	90.00
ARROW	24	135	12	0.10	28.80
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN			84	0.05	
TOTAL #				470.80	

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHUMBERG, ILLINOIS 60196-1096
CONTACT: KEVIN LUBAWSKI
PHONE: 630-437-2495
COMPANY: COMM. ED.

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

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES,
CABLE PLAN AND PHASE
DESIGNATION DIAGRAM
US 12 @ IL. RTE 31
SCALE: NTS
DATE 5/1/2007
DRAWN BY: BCK
DESIGN BY: BCK
CHECKED BY: DAD

5/1/2007
c:\p01\c1\11\1105001\3031.dgn 5/1/2007 10:31:12 AM User:kanthaphayak