

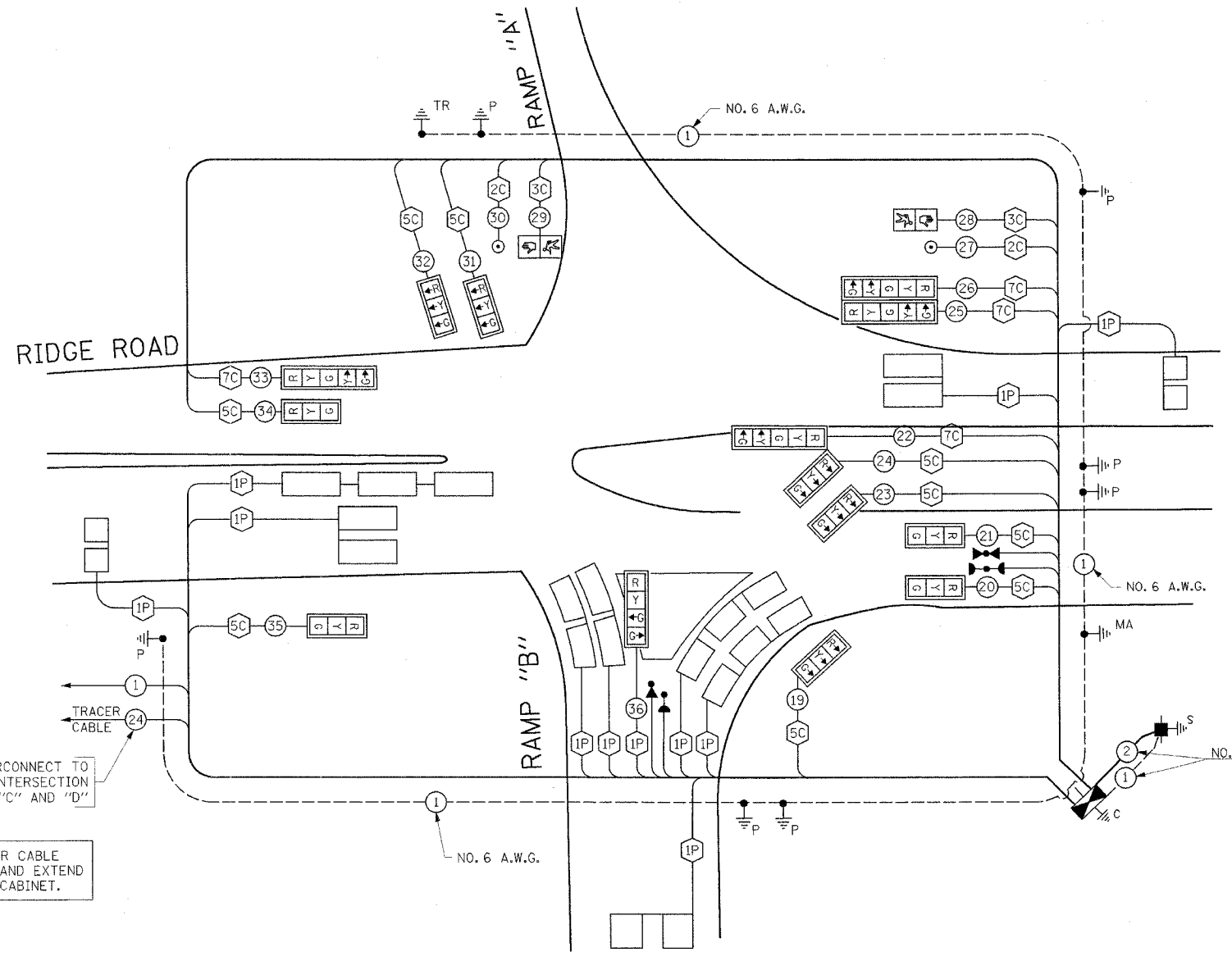
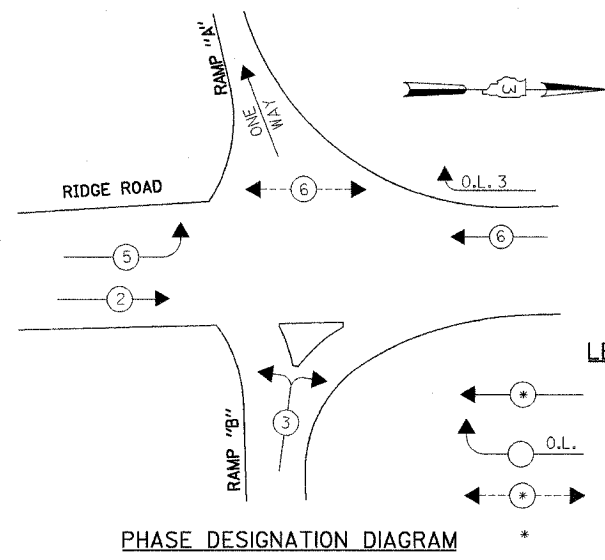
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32, 47-49K)	KENDALL/GRUNDY	243	126
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 66294				

QUANTITY	UNIT	ITEM
9	SO FT	SIGN PANEL - TYPE 1
148	FOOT	CONDUIT IN TRENCH, 1/4" DIA., PVC
862	FOOT	CONDUIT IN TRENCH, 2" DIA., PVC
119	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., PVC
485	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., PVC, SCHEDULE 80
56	FOOT	CONDUIT IN TRENCH, 3" DIA., PVC, SCHEDULE 80
10	FOOT	CONDUIT IN TRENCH, 4" DIA., PVC, SCHEDULE 80
264	FOOT	CONDUIT PUSHED, 3" DIA., PVC, SCHEDULE 80
177	FOOT	CONDUIT PUSHED, 4" DIA., PVC, SCHEDULE 80
9	EACH	CONCRETE HANDHOLE
1	EACH	CONCRETE HEAVY-DUTY HANDHOLE
1	EACH	CONCRETE DOUBLE HANDHOLE
1520	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
494	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
738	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1729	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
977	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2503	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
39	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
6	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 50 FT.
28	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE D
13	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
14	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC
10	EACH	INDUCTIVE LOOP DETECTOR
1408	FOOT	DETECTOR LOOP, TYPE 1
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
2	EACH	REMOVE EXISTING HANDHOLE
1	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	UNINTERRUPTED POWER SUPPLY
1	EACH	SERVICE INSTALLATION, POLE MOUNT
681	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
226	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED
7	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED

\* 100% COST TO VILLAGE OF MINOOKA

**CONTROLLER SEQUENCE**

NAME OF INTERSECTION: RIDGE ROAD AT RAMPS "A" AND "B"  
 CONTROLLER SPECIFIED: FULL ACTUATED CONTROLLER,  
 STANDARD SEQUENCE II, 3 PHASES IN TYPE IV CABINET  
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN  
 PHASES USED ARE DESIGNATED BELOW.  
 (SHOW MOVEMENTS AND PHASE NUMBERS)



**CABLE PLAN LEGEND**

- ⬡ NUMBER OF CONDUCTORS
- PROPOSED CABLE NUMBER
- .. CABLE NUMBER
- ➡ YELLOW TURN ARROW
- ➡ GREEN TURN ARROW
- ⬜ 8" SIGNAL
- ⬜ 12" SIGNAL
- ➡ VEHICLE PEDESTRIAN MOVEMENT TERMINATOR
- ⬜ 12' (300mm) PEDESTRIAN SIGNAL SECTION
- ⬜ TRAFFIC SIGNAL BACKPLATE
- ⬜ CONTROLLER CABINET
- ⬜ SERVICE INSTALLATION
- ⬜ VEHICLE DETECTOR, INDUCTION LOOP
- ⊙ PUSH-BUTTON DETECTOR
- ⬜ EMERGENCY VEHICLE LIGHT DETECTOR
- ⬜ CONFIRMATION BEACON

**CABLE PLAN**

INTERCONNECT TO SOUTH RAMPS INTERSECTION  
 RIDGE ROAD AT RAMPS "C" AND "D"  
 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 TRAFFIC SIGNAL CONTROLLER IN THE VILLAGE OF MINOOKA.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE)

**CABLE PLAN AND PHASE DESIGNATION DIAGRAM  
 RIDGE ROAD AT RAMPS "A" AND "B"**

SCALE: NONE  
 DATE: 2/10/06  
 DRAWN BY: SA/KGP  
 CHECKED BY: PKG

**GO** GANDHI AND ASSOCIATES, INC.  
 ENGINEERS AND PLANNERS  
 6035 N. NORTHWEST HIGHWAY  
 SUITE 306  
 CHICAGO, ILLINOIS 60631 TEL. (773) 774-590