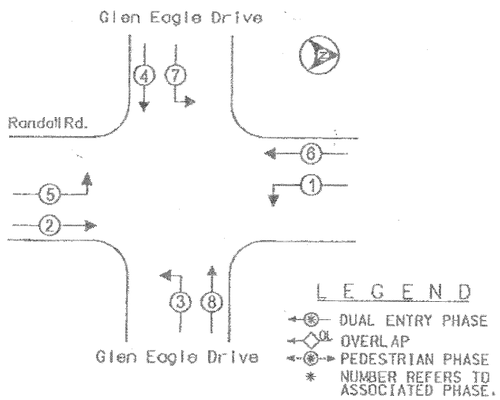
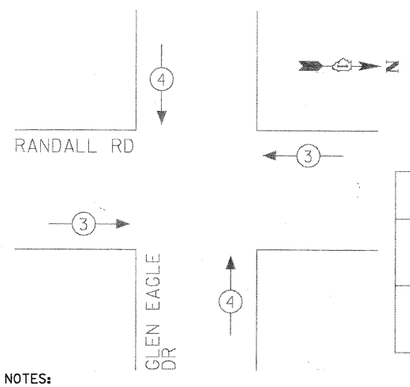
PROPOSED AND EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE

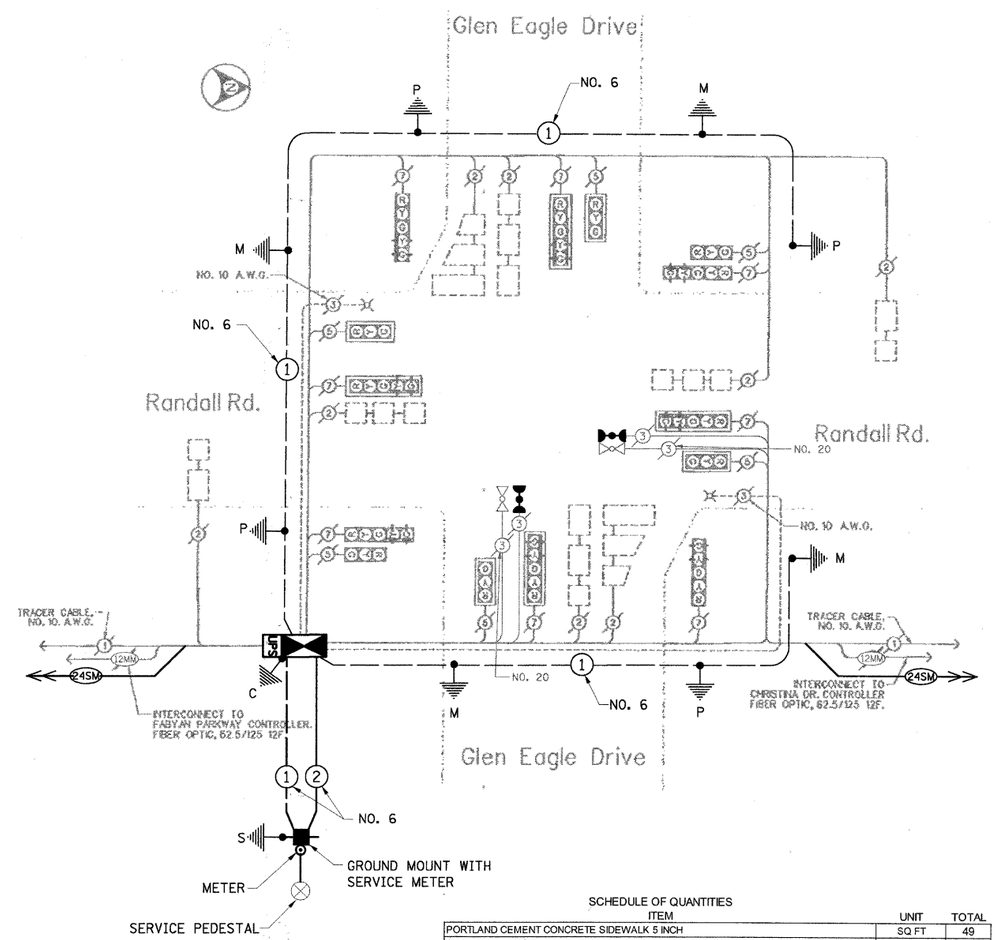


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↓ ↑

CABLE PLAN LEGEND

EXISTING	PROPOSED	
		8" (200MM) TRAFFIC SIGNAL SECTION
		12" (300MM) TRAFFIC SIGNAL SECTION
		12" (300MM) PEDESTRIAN SIGNAL SECTION
		12" (300MM) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD
		LUMINAIRE

PROPOSED AND EXISTING CABLE PLAN



CONSTRUCTION NOTES:

1. REPLACE EXISTING CONTROLLER AND CABINET. INSTALL NEW CONTROLLER AND TYPE IV CABINET ON EXISTING FOUNDATION.
2. ALL EXISTING CONFIRMATION BEACONS SHALL BE RETROFITTED WITH L.E.D. INDICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST FOR THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.
3. REPLACE EXISTING UNINTERRUPTIBLE POWER SUPPLY AND CABINET ENCLOSURE.
4. INSTALL NEW 50"X67" PAD FOR UNINTERRUPTIBLE POWER SUPPLY.
5. ADD NEW GROUNDING

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT IS "EAGLE".

NOTE:
FOR COORDINATION OF NEW SERVICE INSTALLATION, THE CONTRACTOR SHALL CONTACT JENIFFER HILKEMAN AT THE CITY OF GENEVA (630) 232-1503.

SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	49
SIDEWALK REMOVAL	SQ FT	25
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	35
HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	35
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	60
CONCRETE FOUNDATION, TYPE A	FOOT	4
INDUCTIVE LOOP DETECTOR	EACH	8
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	10
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	8
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C	FOOT	628
TERMINATE FIBER IN CABINET	EACH	6
SPLICE FIBER IN CABINET	EACH	6
UPS BATTERY BACK-UP CABINET	EACH	1
ETHERNET MANAGED SWITCH, TYPE 1	EACH	1

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

PLAN — NOTE BOOK NO. — SURVEYED / PLOTTED / ALIGNMENT CHECKED / GRADES CHECKED / DRAWN BY / CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. — SURVEYED / PLOTTED / GRADES CHECKED / DRAWN BY / STRUCTURE NO(S)/STA(S) CHKD — BY — DATE

METRO TRANSPORTATION GROUP, INC.
TRANSPORTATION PLANNING, ENGINEERING AND DESIGN
1300 GREENBROOK, HANOVER PARK, IL 60103 PH# 630 213-1000

REVISIONS

NO.	DATE	DESCRIPTION

CABLE PLAN, PHASE DESIGNATION DIAGRAM and SCHEDULE OF QUANTITIES
RANDALL ROAD @ GLEN EAGLE DRIVE
GENEVA, ILLINOIS

FILE NAME: glen_cp.dgn
DATE: April 15, 1999
PROJECT NO.: 3857-00
SHEET NO.: 9 OF 24

FILE NAME = N:\kanecounty\082673\Traffic\029_CAB_Randall-Glen Eagle.dgn
PLOT SCALE = NOT TO SCALE
PLOT DATE = 11/3/2010

USER NAME = FPACIONE	DESIGNED - ABR	REVISED -
	DRAWN - FCP	REVISED -
	CHECKED - MJT	REVISED -
	DATE - AUGUST 31, 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
RANDALL ROAD AND GLEN EAGLE DRIVE

SCALE: | SHEET NO. OF SHEETS | STA. -- TO STA. --

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	09-00237-02-TL	KANE	100	29

CONTRACT NO. 63525
ILLINOIS FED. AID PROJECT