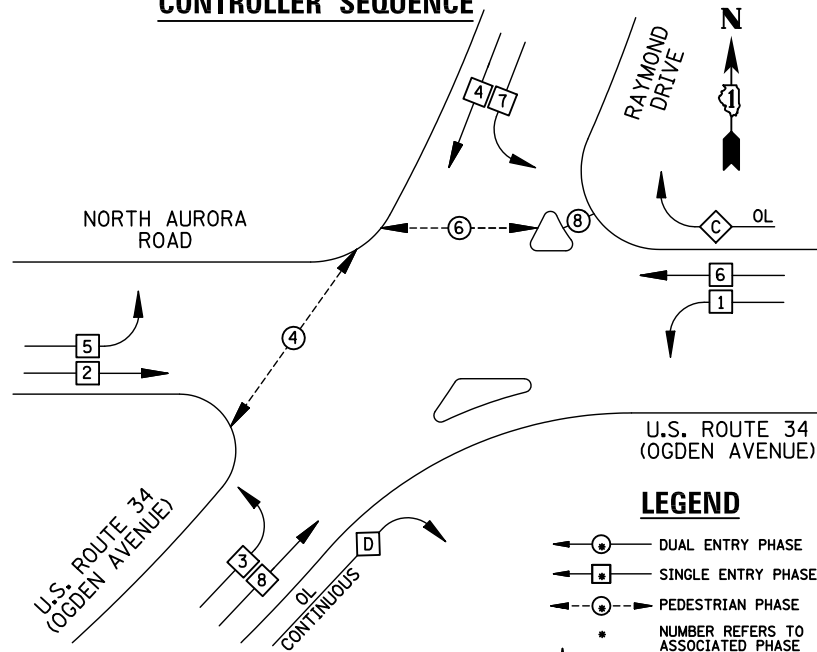
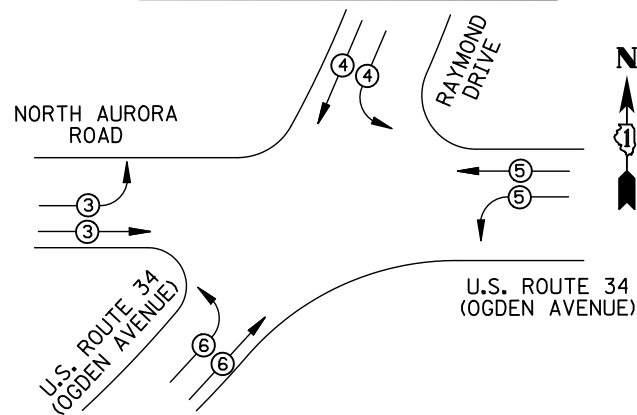


**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM**



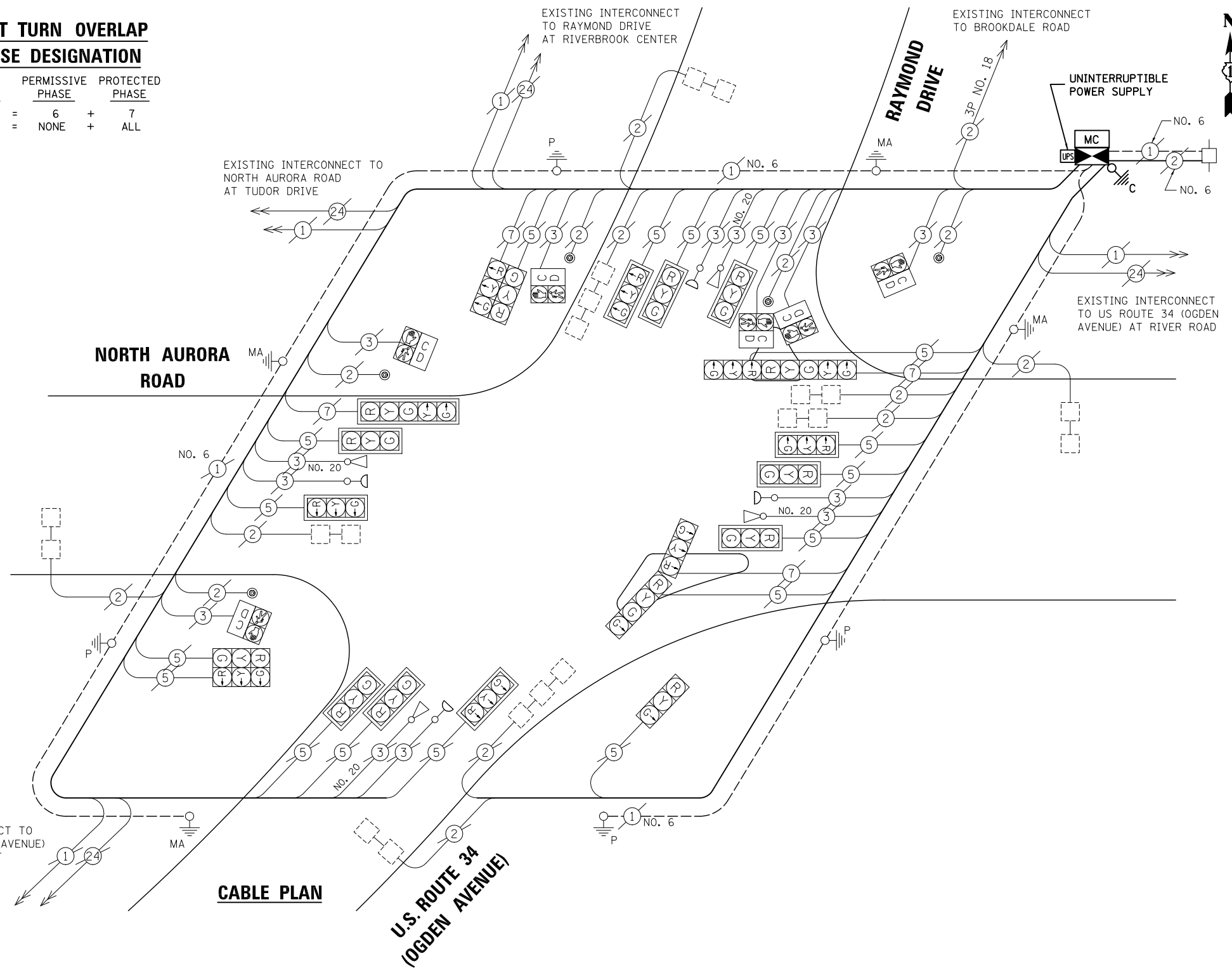
EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**

**RIGHT TURN OVERLAP PHASE DESIGNATION**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
C	= 6	+ 7
D	= NONE	+ ALL

- LEGEND**
- DUAL ENTRY PHASE
  - SINGLE ENTRY PHASE
  - PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE
  - OL OVERLAP



EXISTING INTERCONNECT TO U.S. ROUTE 34 (OGDEN AVENUE) AT JEFFERSON STREET

**CABLE PLAN**

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	9
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1
MASTER CONTROLLER (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**

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.

- 1 EACH CONTROLLER AND CABINET, COMPLETE
- 1 EACH MASTER CONTROLLER

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	20	135	17	0.50	170
(YELLOW)	20	135	25	0.25	125
(GREEN)	20	135	15	0.25	75
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	6	90	25	1.00	150
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
ARROW					24
FLASHER					
		135	25	0.50	
ENERGY COSTS TO:					TOTAL =
CITY OF NAPERVILLE 400 S. EAGLE STREET NAPERVILLE, IL 60540					648.8
ENERGY SUPPLY CONTACT:	X				
PHONE:	X				
COMPANY:	X				

FILE NAME = \MICROST\352105\ 18-27140.DGN  
USER NAME = JGC  
DESIGNED - BPT  
DRAWN - JGC/RDS  
PLOT SCALE = NOT TO SCALE  
PLOT DATE = X  
CHECKED - BPT  
DATE - 03-22-13

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN,  
PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION  
U.S. ROUTE 34 (OGDEN AVENUE) AT RAYMOND DRIVE

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

PREPARED BY:  
**CEMCON, Ltd.**  
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2280 White Oak Circle, Suite 100  
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Ph: 630.862.2100 Fax: 630.862.2199  
E-Mail: cadd@cemcon.com Website: www.cemcon.com

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2012-084TS	DU PAGE	89	32
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

TS# 27140  
NAPERVILLE