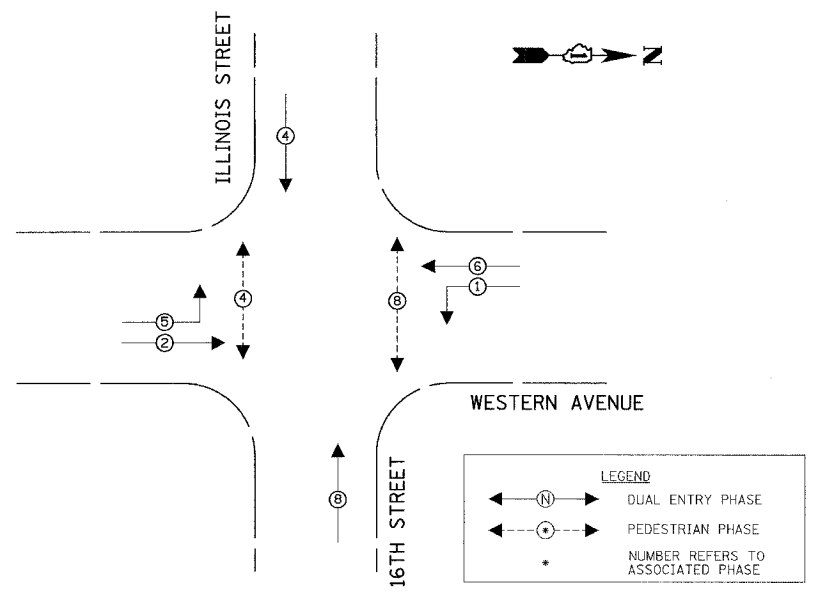


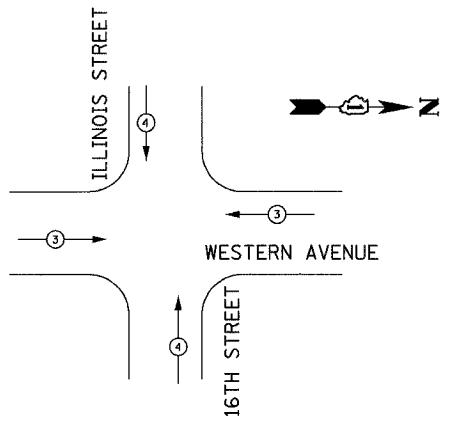
PREPARED BY:  
**CEMCON, L4**  
 Consulting Engineers, Land Surveyors & Planners  
 2280 White Oak Circle, Suite 100  
 Burrage, MO 65604-5675 862-6199  
 Faxes: 862-6199  
 E-Mail: info@cemcon.com Website: www.cemcon.com

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	3152WRS	COOK	195	110
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62742				

**CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM**

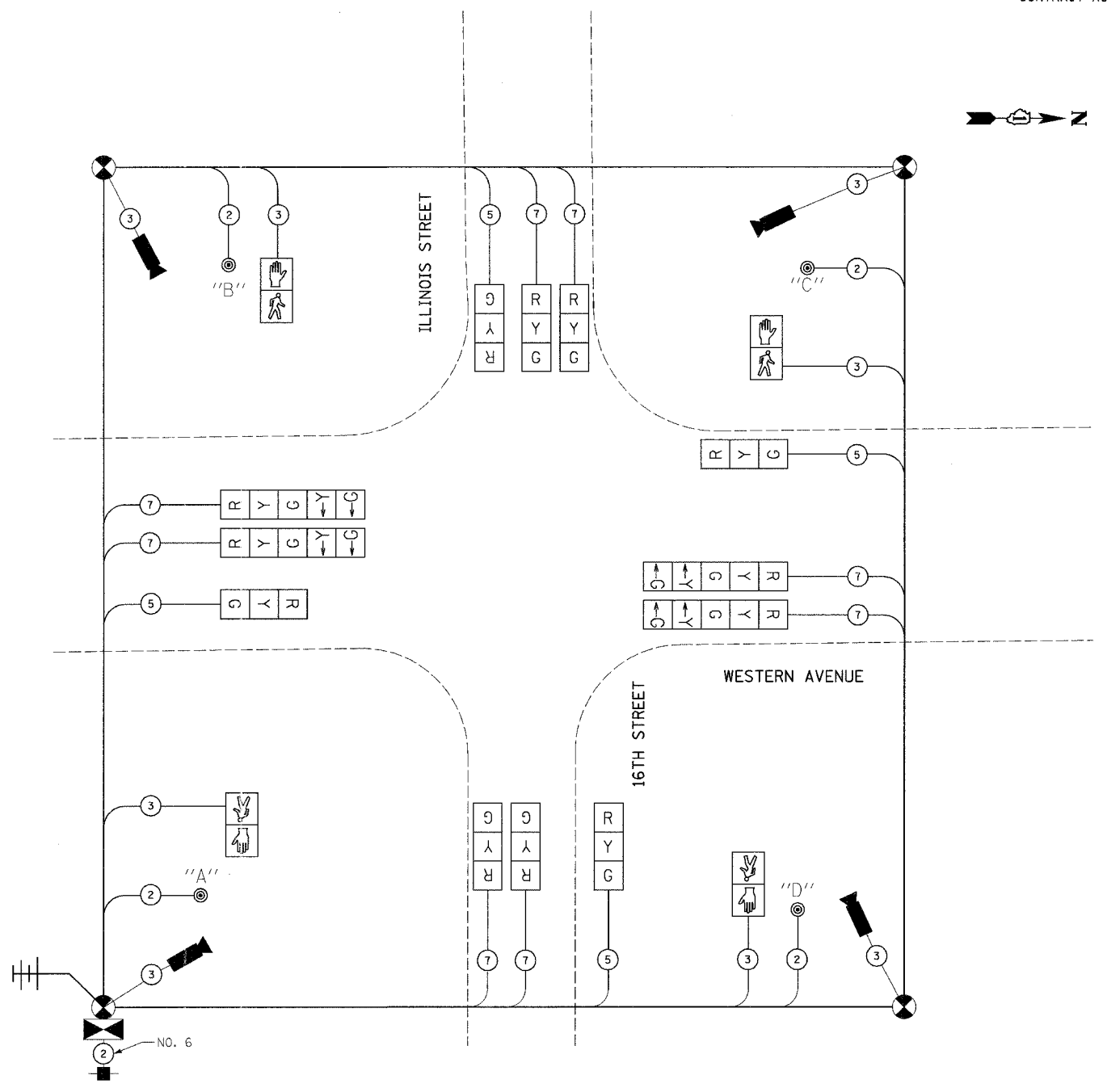


EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇌	⇌

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**

**TEMPORARY CABLE DIAGRAM LEGEND**

- TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300 mm)
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SERVICE INSTALLATION
- INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- PEDESTRIAN PUSH-BUTTON DETECTOR
- VEHICLE DETECTOR, INDUCTION LOOP
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- VIDEO VEHICLE SENSOR
- RADIO ANTENNA (TRANSMITTER/RECEIVER)
- TEMPORARY WOOD POLE



TEMPORARY CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE INCAND. LED	%OPERATION		
SIGNAL (RED)	11	135	17	0.50	93.5
(YELLOW)	11	135	25	0.25	68.75
(GREEN)	11	135	15	0.25	41.25
ARROW	4	135	12	0.10	4.8
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	308.3

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.0 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20.0 (6.0)
E - M. ARM POLE		SIGNAL POST	0 (0.0)	BRACKET MOUNTED	13 (4.0)
		CONTROLLER CAB.	0 (0.0)	PED. PUSH-BUTTON	6 (2.0)
		24" (600mm)	10 (3.0)	ELECTRIC SERVICE	13.5 (4.1)
		30" (750mm)	15 (4.6)	SERVICE TO GROUND	13.5 (4.1)
		FIBER OPTIC	13 (4.0)	POST MOUNTED	13 (4.0)
		ELECTRIC SERVICE	1 (0.5)		
		GROUND CABLE	1 (0.5)		

NOTES:  
 1. CABLES FOR VIDEO DETECTORS AND RADIO ANTENNAS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURERS OF THE EQUIPMENT.  
 2. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, SCHEDULE OF QUANTITIES  
 WESTERN AVE. AT ILLINOIS ST. /16TH ST.  
 SCALE: VERT. NONE  
 HORIZ. NONE  
 DATE 5/17/2007  
 DRAWN BY JLA  
 DESIGNED BY KK/BPT  
 CHECKED BY JTL/BPT

PLOT DATE = 5/18/2007  
 FILE NAME = J:\projects\3028054\sign\shs24\_TC\_IL10b.dgn  
 USER = JLA