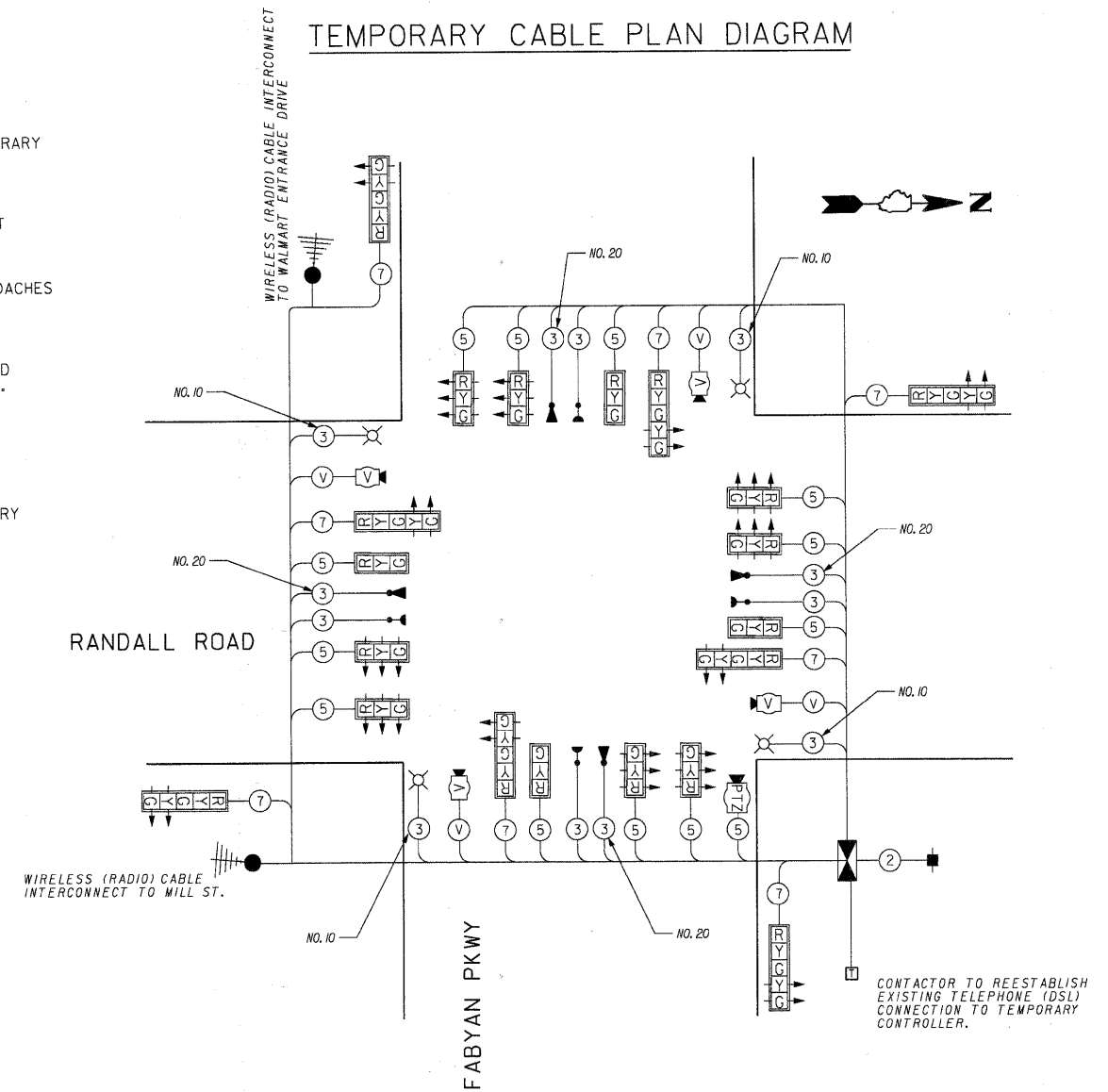


NOTES FOR TEMPORARY TRAFFIC SIGNALS

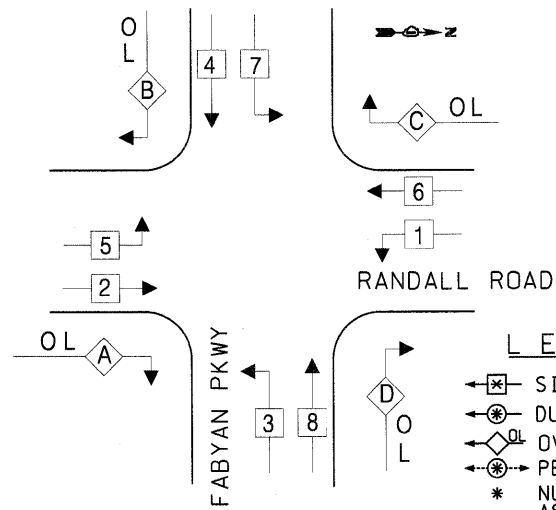
- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR AND INCLUDED IN PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)".
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT ONE AND KANE COUNTY. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- ANY TEMPORARY SIGNAL WITHIN A CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL. AT THE TIME OF TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- THE TRAFFIC SIGNAL CONTROLLER SHALL INCLUDE ETHERNET DATA PORTS FOR REMOTE (IP) COMMUNICATION THROUGH THE COUNTY'S ATMS. THE COST SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)".
- THE VIDEO DETECTION SYSTEM SHALL INCLUDE THE NECESSARY QUAD VIDEO ENCODER AND MEDIA CONVERTER FOR REMOTE (IP) COMMUNICATION THROUGH THE COUNTY'S ATMS. THE COST SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)".
- A NEW PTZ CAMERA SHALL BE INSTALLED ON THE TEMPORARY TRAFFIC SIGNAL INSTALLATION FOR REMOTE (IP) COMMUNICATION THROUGH THE COUNTY'S ATMS. THE CAMERA WILL LATER BE RELOCATED TO THE PERMANENT TRAFFIC SIGNAL INSTALLATION. THE COST TO PROVIDE, INSTALL TO BOTH THE TEMPORARY AND PERMANENT SIGNAL INSTALLATION SHALL BE PAID THROUGH THE PAY ITEM FOR "REMOTE CONTROL VIDEO SYSTEM".
- THE EXISTING MANAGED ETHERNET SWITCH, TYPE 2 (GARRETCOM 6K32) IS TO BE RELOCATED FROM EXISTING TRAFFIC SIGNAL CABINET TO TEMPORARY TRAFFIC SIGNAL CABINET (AND LATER - RELOCATED FROM TEMPORARY CABINET TO THE PERMANENT CABINET. THE COST SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM FOR "TEMPORARY SIGNAL INSTALLATION (SPECIAL)".

- UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS. THIS SHOULD BE CONSIDERED INCLUDED AS PART OF THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)".
- TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
- VIDEO DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
- ALL LABOR AND MATERIAL TO COMPLY WITH THESE REQUIREMENTS SHALL BE CONSIDERED INCLUDED IN THE BID PRICE OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)".
- TEMPORARY VIDEO DETECTION SYSTEM AND TEMPORARY LIGHTING SHALL BE CONSIDERED AS PART OF THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)".
- CONTRACTOR TO VERIFY LOCATION AND DIRECTION OF MAST ARMS AND CAMERAS.
- CONTRACTOR TO REESTABLISH EXISTING TELEPHONE (DSL) CONNECTION TO TEMPORARY CONTROLLER. THIS WORK SHALL BE CONSIDERED AS PART OF THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)".
- TEMPORARY (RADIO) TRAFFIC SIGNAL INTERCONNECT SHALL BE CONSIDERED AS PART OF THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)".

TEMPORARY CABLE PLAN DIAGRAM



CONTROLLER SEQUENCE - TEMPORARY



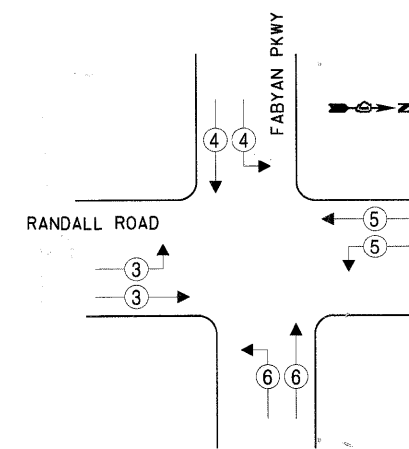
PHASE DESIGNATION DIAGRAM

NOTE: PLACE PHASES 2 AND 6 ON MINIMUM RE-CALL AND DISABLE THE "ANTI-BACKUP" ON PHASES 1 AND 5

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTERS	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
B	4	5
C	6	7
D	8	1

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	→	↓	←	↑

K.C.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE		
		INCAND.	LED % OPERATION	
SIGNAL (RED)	12	17	0.50	102
(YELLOW)	12	25	0.25	75
(GREEN)	12	15	0.25	45
ARROW	40	12	0.10	48
PED. SIGNAL		25	1.00	
CONTROLLER	1	100	1.00	100
ILLUM. SIGN			0.05	
FLASHER			0.50	
TOTAL =				370

ENERGY COSTS- BILLED TO: _____

ENERGY SUPPLY- CONTACT: JENNIFER HILKEMANN
PHONE: (630) 232-1503
COMPANY: CITY OF GENEVA

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, (TEMPORARY) PHASE DESIGNATION
DIAGRAM AND SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	01-00269-00-CH	KANE	124	67
CONTRACT NO. 63533				

ILLINOIS FED. AID PROJECT

USER NAME = Matt Baldwin	DESIGNED - PWK	REVISED -
PLOT SCALE = 20,0000' / 1"	DRAWN - ERD	REVISED -
PLOT DATE = 12/29/2010	CHECKED - KDF	REVISED -
	DATE = 12/29/2010	REVISED -