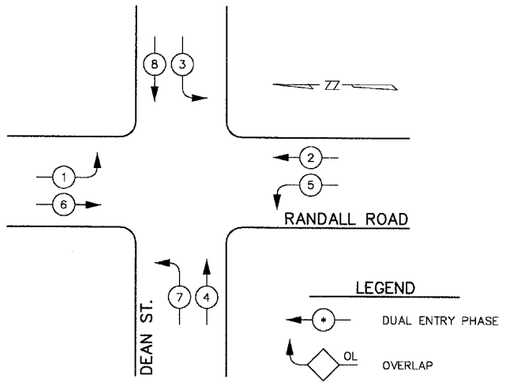
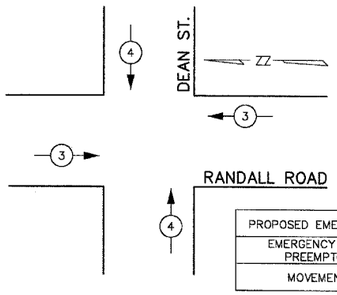
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHTS.
336	99-00243-00-PV CONTRACT NO. 83782	KANE	268
TEMPORARY CABLE PLAN			
F.H.W.A. REG.5	ILLINOIS	PROJECT F-0336(0	

STAGE 1, 2 & 3 TEMPORARY TRAFFIC SIGNAL CONTROLLER SEQUENCE

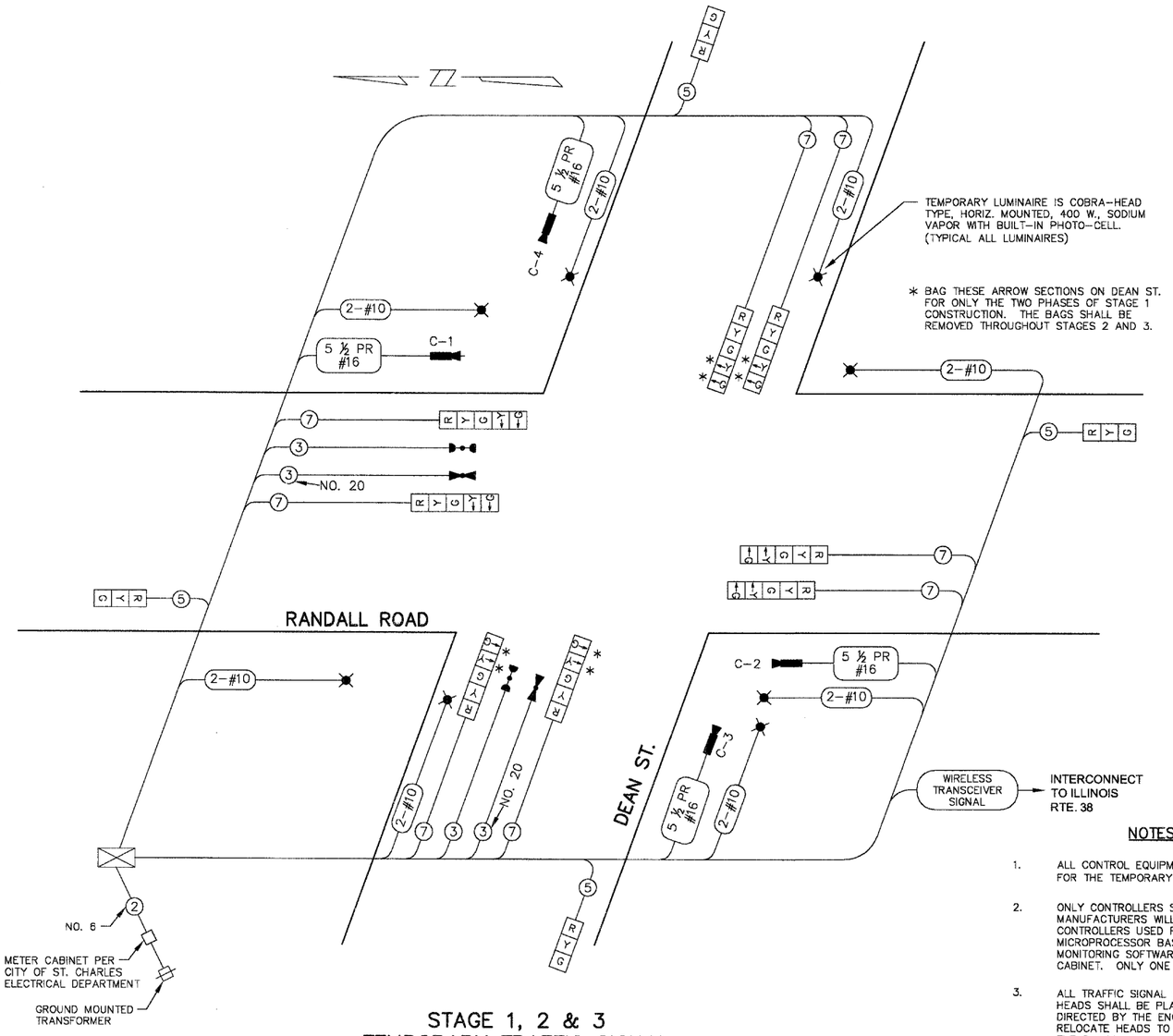


PHASE DESIGNATION DIAGRAM

TEMPORARY TRAFFIC SIGNAL EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



STAGE 1, 2 & 3 TEMPORARY TRAFFIC SIGNAL CABLE PLAN

TEMPORARY CABLE PLAN LEGEND

- TEMPORARY TRAFFIC SIGNAL SECTION 12"
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SERVICE INSTALLATION
- (5) INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PUSHBUTTON DETECTOR
- 12" PEDESTRIAN SIGNAL SECTION
- MACHINE VISION PROCESSOR
- TEMPORARY LUMINAIRE, S.V. 400W

I.D.O.T
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	x WATTAGE INCAND.	x WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	~~17~~	0.50	810.0
(YELLOW)	12	135	25	0.25	405.0
(GREEN)	12	135	~~15~~	0.25	405.0
ARROW	16	135	~~12~~	0.10	216.0
PED. SIGNAL		90	25	1.00	0.0
CONTROLLER	1	100	~~100~~	1.00	100.0
ILLUM. SIGN		84		0.05	0.0
VIDEO DETECT	4	23	23	1.00	92.0
LUMINAIRE	8	400		0.50	1600.0
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	3628.0

CITY OF ST. CHARLES
2 EAST MAIN STREET
ST. CHARLES, IL. 60174

ENERGY SUPPLY CONTACT: Tom Lesiewicz
PHONE: (630) 377-4486
COMPANY: St. Charles Electric Department

NOTES FOR TEMPORARY TRAFFIC SIGNAL

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNALS(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. 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 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCTPED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. 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 CONTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPOARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. 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 THE TURN ON. IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. ALL TEMPORARY SIGNAL HEADS SHALL USE INCANDESCENT BULBS.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING SYSTEM.

NAME	DATE
REVISIONS	

DIVISION OF TRANSPORTATION

STAGE 1, 2 & 3
TEMPORARY TRAFFIC SIGNAL CABLE PLAN
PHASE DESIGNATION DIAGRAM

RANDALL RD. & DEAN STREET

SCALE: NONE
DATE: SEPTEMBER 23, 2004
DRAWN BY: JM
DESIGNED BY: DM
CHECKED BY: JR