

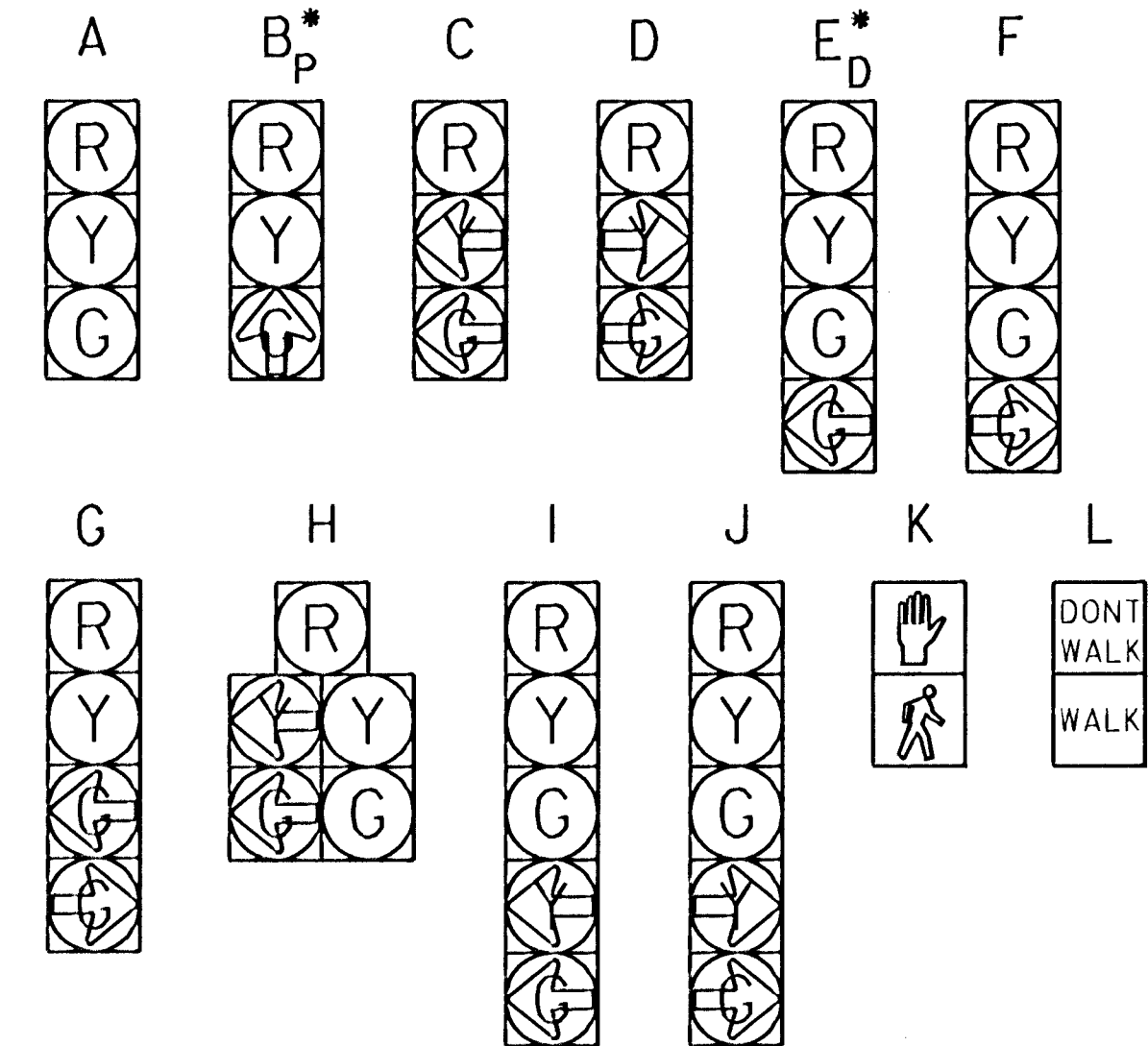
CHART A SIGNAL SUMMARY			
SIGNAL FACE ARRANGEMENT	NO. SECTIONS (PER FACE)	MOUNTING TYPE	QUANTITY
A	3@12'	RIGID MAST ARM	8
C	3@12'	RIGID MAST ARM	1
		RIGID MAST ARM	
A	3@12'	VERTICAL BRACKET	2
K	2@12'	VERTICAL BRACKET	2
		SPAN WIRE	
		SPAN WIRE	
C	3@12'	VERTICAL BRACKET	1
		TOTAL	14

CHART B TRAFFIC SIGNAL POLES					
POLE		SIGNAL ARM SIZE	SIGNAL ARM MOUNTING HEIGHT	NO. OF SIGNALS ON ARM	SIGNAL SPACING
NO.	SIZE				
1	20'	50'	19'	3	11' - 11' - 11' /
2	15'	—	—	—	—
3	15'	—	—	—	—
4	20'	50'	19'	4	11' - 11' - 11' / ②
5	20'	22'	19'	2	11' / ① ③

- ① MAST ARM TO SUPPORT STREET NAME SIGN
 - ② MOUNT RIO-10 ADJACENT TO TYPE C SIGNAL HEAD
 - ③ MOUNT R3-5 (L or R) ADJACENT TO EACH SIGNAL HEAD
- NOTE: LUMINAIRE TO BE FURNISHED AND INSTALLED BY OTHERS.
ALL POLES TO BE CLASS II.

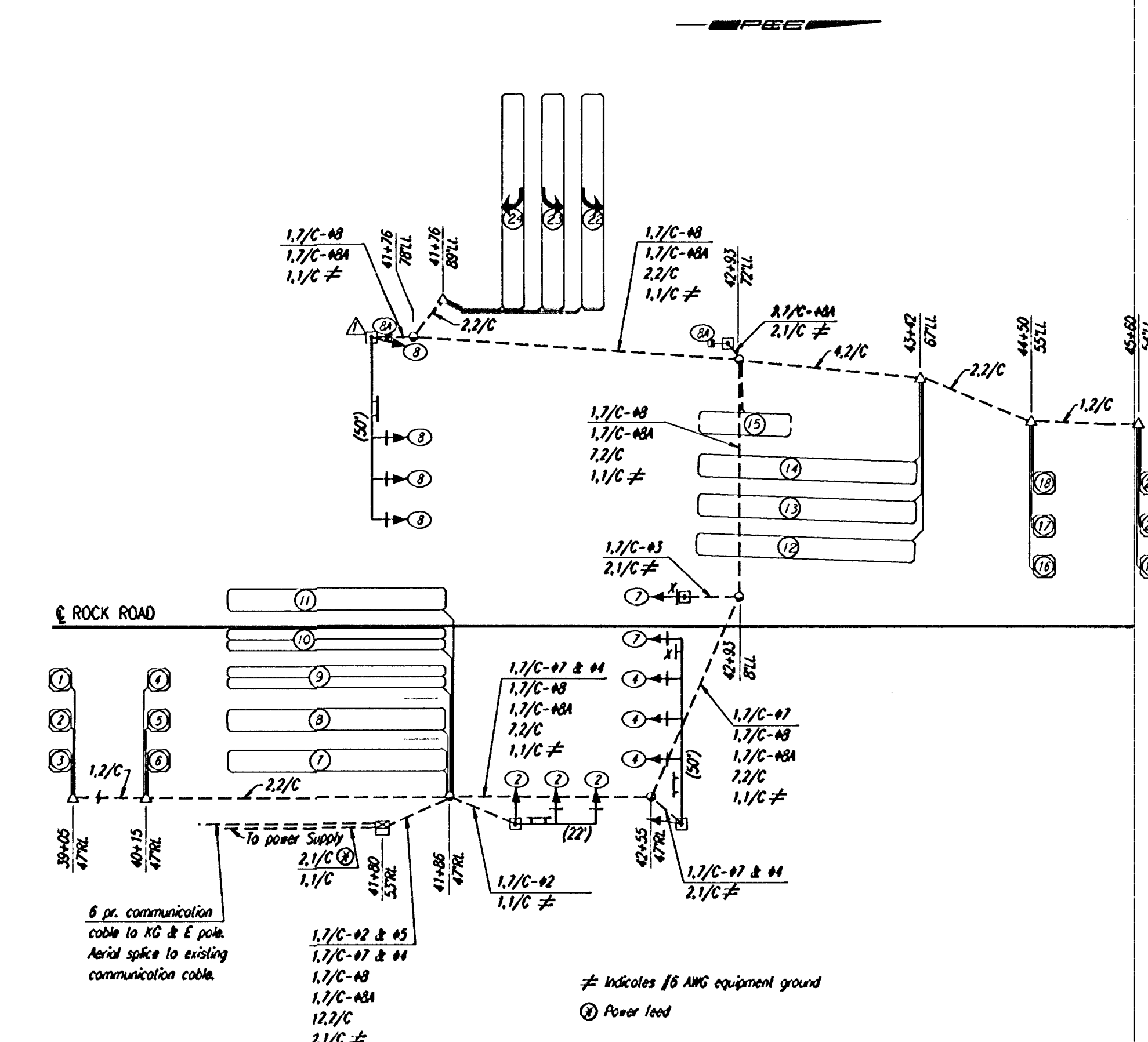
SERVICE BOXES		
STATION	OFFSET	SIDE
41+76	78'	LT.
41+86	47'	RT.
42+55	47'	RT.
42+93	8'	RT.
42+93	72'	LT.

JUNCTION BOXES		
STATION	OFFSET	SIDE
39+05	47'	RT.
40+15	47'	RT.
41+76	89'	LT.
43+42	67'	LT.
44+50	55'	LT.
45+60	54'	LT.



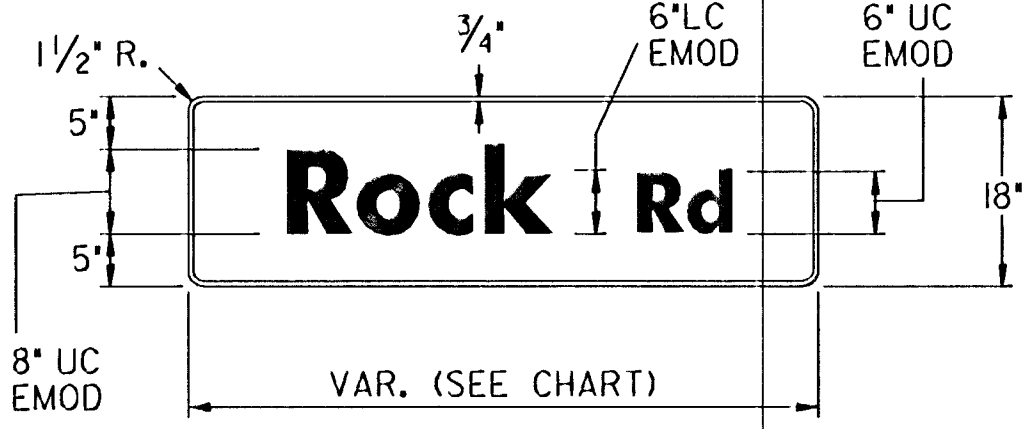
* SUBSCRIPT "P" INDICATES PROGRAMMED SIGNALS
SUBSCRIPT "D" INDICATES DUAL-MODE GREEN/YELLOW ARROW SECTION

BILL OF MATERIALS		
ITEM	UNIT	QUANT.
PAD MOUNTED CONTROLLER & CABINET	EACH	1
TRAFFIC SIGNAL HEAD (SEE CHART A) W/MOUNTING HARDWARE	EACH	14
TRAFFIC SIGNAL LAMP 135 WATT KRYPTON	EACH	40
BACK PLATE 5" - 3 SECTION	EACH	9
BACK PLATE 5" - 4 SECTION	EACH	—
BACK PLATE 5" - 5 SECTION	EACH	—
TRAFFIC SIGNAL POLE (STEEL) SEE CHART B	EACH	3
TRAFFIC SIGNAL PEDESTAL ALUMINUM SEE CHART B	EACH	2
TERMINAL BLOCK	EACH	—
CONCRETE CONTROLLER PAD	EACH	1
CONCRETE FOOTING - PEDESTAL	EACH	2
CONCRETE FOOTING - POLE	EACH	3
ENTRANCE HEAD	EACH	2
CIRCUIT BREAKER, MAIN, 50 AMP. (MOUNT ON OUTSIDE OF CONTROLLER CABINET)	EACH	1
SERVICE BOX	EACH	5
JUNCTION BOX	EACH	6
GROUND ROD & CLAMP	EACH	7
LOOP DETECTOR	EACH	7
PEDESTRIAN PUSHBUTTON W/SIGN	EACH	2
OVERHEAD STREET NAME SIGN (SEE CHART C) (HIGH INTENSITY SHEETING)	EACH	1
RIO-10 SIGN (24"x30") (HIGH INTENSITY SHEETING)	EACH	4
DETECTOR LOOP WIRE NO.14 AWG 1/c	FEET	8900
SHIELDED DETECTOR LEAD-IN NO.14 AWG 2/c	FEET	3500
SHIELDED DETECTOR LEAD-IN NO.14 AWG 4/c	FEET	—
LEAD-IN WIRE NO.6 AWG 1/c (POWER)	FEET	250
LEAD-IN WIRE NO.8 AWG 1/c (EQUIPMENT GROUND) (GREEN)	FEET	500
MULTI-CONDUCTOR CABLE NO.14 AWG 5/c	FEET	500
MULTI-CONDUCTOR CABLE NO.14 AWG 2/c	FEET	50
MULTI-CONDUCTOR CABLE NO.14 AWG 7/c	FEET	1200
6 PAIR COMMUNICATION CABLE	FEET	200
COMMUNICATION CABLE AERIAL SPLICE BOX	EACH	2
COMMUNICATION CABLE SUPPORT HARDWARE	AS REQUIRED	
RIGID STEEL CONDUIT, 3/4"	FEET	250
RIGID STEEL CONDUIT, 1"	FEET	550
RIGID STEEL CONDUIT, 1 1/4"	FEET	—
RIGID STEEL CONDUIT, 2"	FEET	100
RIGID STEEL CONDUIT, 3"	FEET	350
P. V. C. CONDUIT, 2"	FEET	—



WIRING DIAGRAM

CHART C OVERHEAD STREET NAME SIGNS			
SIGN	LEGEND	LENGTH	QUANTITY
I	Rock Rd	5'-0"	1



Top Coat Finish for Traffic Signal Poles and Pedestals
In addition to being galvanized, all visually exposed exterior surfaces shall be coated with a urethane or triglycidyl isocyanurate (TIC) polyester powder to a minimum dry film thickness (DFT) of 2.0 mils. Prior to application of the top coat, the surface shall be mechanically etched and pre-heated to 450 degrees F for a minimum of one hour. The coating shall be electro-statically applied and cured at a minimum temperature of 400 degrees F. The finished color for the poles shall be black and approved by the Engineer prior to application on the basis of color chip submittals.

Special Finish for Traffic Signal Equipment
The traffic signal controller cabinet, mounting brackets, signal head backs, sign backs, meter box, disconnect box, and miscellaneous hardware shall be shop painted with an aerosol lacquer cellulose ester to match the traffic signal pole color. The Contractor shall submit two copies of the proposed coating system to the Engineer for approval prior to application. In addition to the requirements stipulated in the Standard Specifications, banding material shall be coated with ethylene-vinyl-alcohol (EVA) copolymer. The color shall be black.

Revisions		By	Date
CITY OF WICHITA, KANSAS			
TRAFFIC SIGNAL QUANTITIES			
ROCK ROAD			
Professional Engineering Consultants, P.A.			
303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003			
Designed by	BER, PMM	Checked by	
Drawn by		Date	JUNE 2000
		Job No.	99687-1

DSMR: PMM OPER: BUS SCALE: 1"=20' 1/1999/99687/001/SIGQTY.DGN 6-29-2000