| PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|
| 472-83222 | 18 | 32 |

## 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 NO. | POLE SIZE | SIGNAL ARM SIZE | SIGNAL ARM MOUNTING HEIGHT | NO. OF SIGNALS ON ARM | SIGNAL SPACING |
|---|---|---|---|---|---|
| 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' / ①③ |
| | | | | | |
| | | | | | |

① MAST ARM TO SUPPORT STREET NAME SIGN

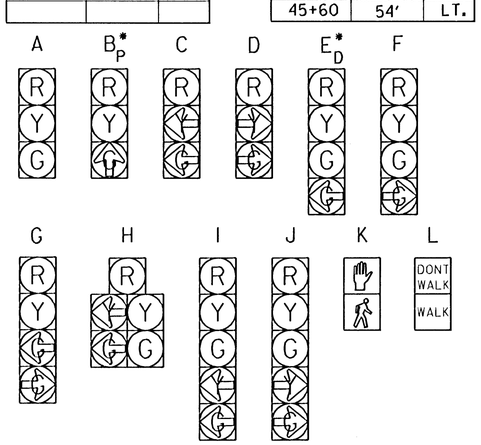
② MOUNT R10-10 ADJACENT TO TYPE C SIGNAL HEAD

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. |
| | | |

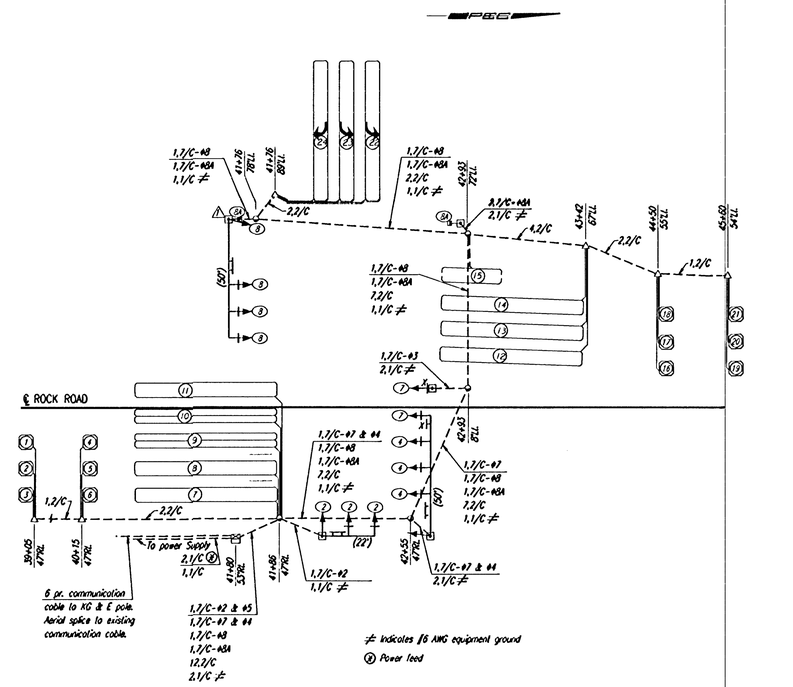
| JUNCTION BOXES | | |
|---|---|---|
| STATION | OFFSET | SIDE |
| 39+05 | 47' | RT. |
| 40+15 | 47' | RT. |
| 41+76 | 89' | LT. |
| 43+42 | 67' | LT. |
| 44+50 | 55' | LT. |
| 45+60 | 54' | LT. |




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

## BILL OF MATERIALS

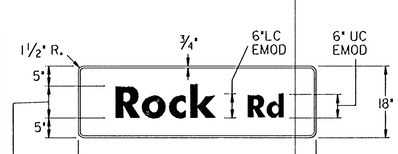
| ITEM | UNIT | QUANT. |
|---|---|---|
| PAD MOUNTED CONTROLLER & CABINET | EACH | 1 |
| TRAFFIC SIGNAL HEAD (SEE CHART A) W/MOUNTING HARDWARE | EACH | 14 |
| TRAFFIC SIGNAL LAMP 135 WATT KRYPTON | EACH | 40 |
| BACK PLATE 5" - 3 SECTION | EACH | 9 |
| BACK PLATE 5" - 4 SECTION | EACH | — |
| BACK PLATE 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 |
|---|---|---|---|
| 1 | 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 (TGIC) 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 celulose 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-vinly-alcohol (EVA) copolymer.
The color shall be black.

| No. | Revisions | By | Date |
|---|---|---|---|
| 1 | | | |

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 |

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