




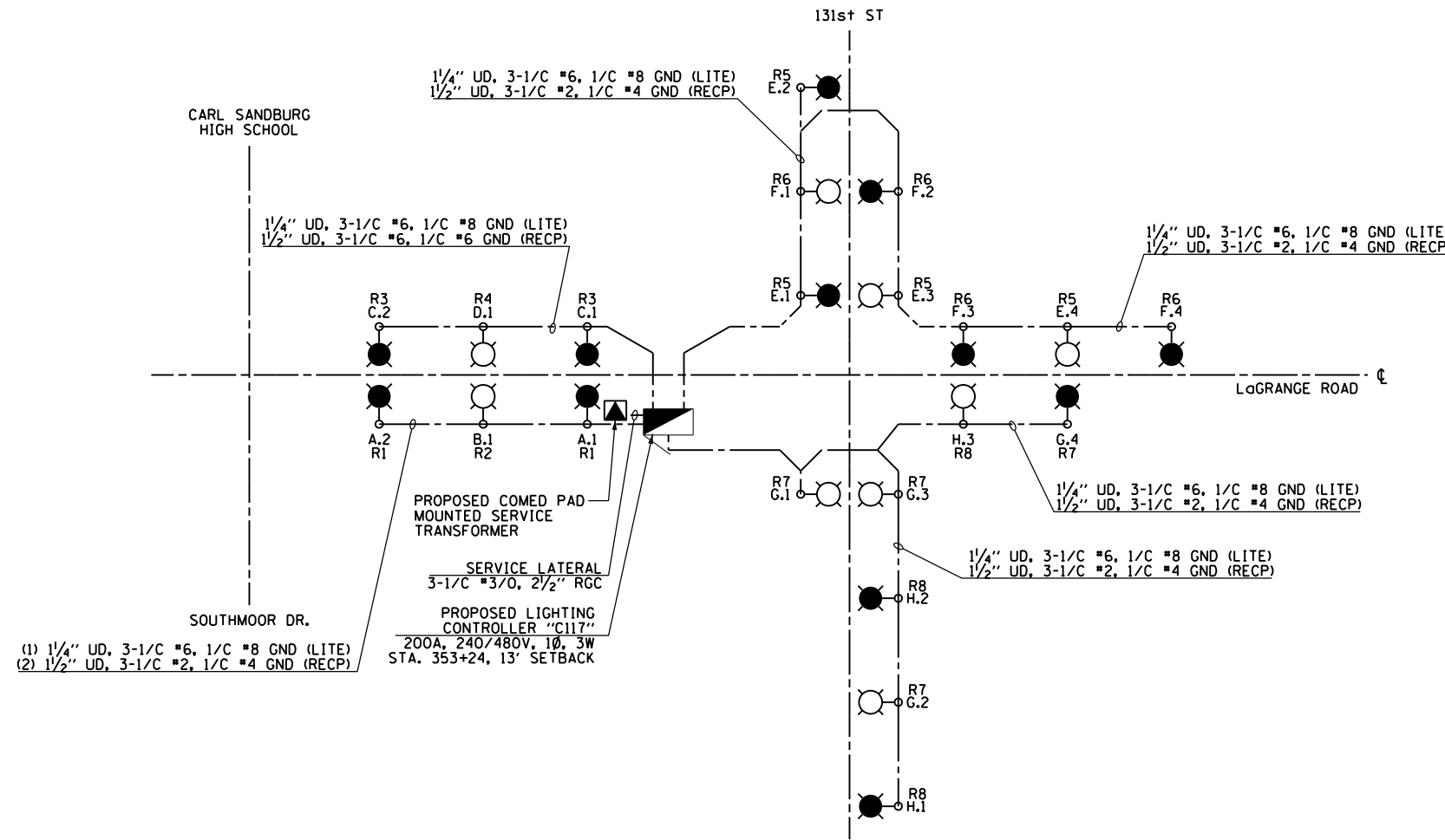


LEGEND:

-  PROPOSED LIGHTING UNIT: 400W, 240V PHASE TO NEUTRAL, HPS LUMINAIRE WITH TYPE III DISTRIBUTION, 45'-2" ALUMINUM POLE SHAFT ON 24" DIAMETER CONCRETE FOUNDATION, 47'-6" MOUNTING HEIGHT, 12'-0" MAST ARM, WITH 5A FUSES AND T-BASE (RED PHASE-OPEN SYMBOL, BLACK PHASE-SHADED SYMBOL)
-  PROPOSED ROADWAY LIGHTING CONTROLLER SINGLE DOOR, BASE MOUNTED, SPECIAL 200A, 240/480V, 1Ø, 3W
-  PROPOSED COMED PAD-MOUNTED TRANSFORMER FOR UTILITY SERVICE CONNECTION
-  PROPOSED CONDUIT AND CABLE AS INDICATED TO SECONDARY SIDE OF UTILITY SERVICE CONNECTION
-  PROPOSED UNIT DUCT: SIZE AND QUANTITY OF CONDUCTORS AS INDICATED

NOTES:

1. SEE DRAWING E-1 FOR ELECTRICAL ABBREVIATIONS. SEE DRAWING E-2 FOR ELECTRICAL GENERAL NOTES.
2. COLOR CODING OF CONDUCTORS FOR 240/480V, 1Ø, 3W LIGHTING SYSTEM IS AS FOLLOWS:
 "A" PHASE - RED
 "B" PHASE - BLACK
 NEUTRAL - WHITE
 GROUND - GREEN



LIGHTING CONTROLLER "C117" WIRING DIAGRAM
N.T.S.



| LIGHTING CONTROLLER "C117" ROADWAY LIGHTING PANEL LOAD TABLE | | | | | |
|---|-----------|-------|---------|-------------|-------|
| CIRCUIT | RED PHASE | | CIRCUIT | BLACK PHASE | |
| | AMPS | WATTS | | AMPS | WATTS |
| A | 4 | 960 | B | 2 | 480 |
| C | 4 | 960 | D | 2 | 480 |
| E | 8 | 1920 | F | 8 | 1920 |
| G | 8 | 1920 | H | 6 | 1440 |
| I | -- | -- | J | -- | -- |
| K | -- | -- | L | -- | -- |
| M | -- | -- | N | -- | -- |
| O | -- | -- | P | -- | -- |
| Q | -- | -- | R | -- | -- |
| S | -- | -- | T | -- | -- |
| U | -- | -- | V | -- | -- |
| W | -- | -- | X | -- | -- |
| TOTAL | 20 | 4800 | TOTAL | 18 | 4320 |

LOAD TABULATION IS BASED ON THE FOLLOWING:
400W HPS LUMINAIRE: 2.0A AT 240V (PHASE TO NEUTRAL)

| LIGHTING CONTROLLER "C107" RECEPTACLE PANEL LOAD TABLE | | | | | |
|---|--------------|-------|---------|-------------|-------|
| CIRCUIT | ORANGE PHASE | | CIRCUIT | BROWN PHASE | |
| | AMPS | WATTS | | AMPS | WATTS |
| R1 | 3 | 1620 | R2 | 1.5 | 1620 |
| R3 | 3 | 1260 | R4 | 1.5 | 1260 |
| R5 | 6 | 720 | R6 | 6 | 720 |
| R7 | 6 | 720 | R8 | 4.5 | 540 |
| TOTAL | 18.0 | 2160 | TOTAL | 13.5 | 1620 |

LOAD TABULATION IS BASED ON THE FOLLOWING:
180W RECEPTACLE: 1.5A AT 120V (PHASE TO NEUTRAL)

100 S. WACKER DR.
 SUITE 600
 CHICAGO, IL 60606
 TEL (312) 935-1000
 FAX (312) 935-4998
URS

| | | | |
|------------------------------------|------------------------------|-----------------|-----------|
| FILE NAME = D160M62-SHT-E28.dgn | USER NAME = Anthony.Plutz | DESIGNED - MAE | REVISED - |
| SHT.PLAN | PLOT SCALE = 2.000000' / in. | DRAWN - WM | REVISED - |
| | PLOT DATE = 3/13/2013 | CHECKED - DAD | REVISED - |
| | | DATE - 03/13/13 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 45 (LaGRANGE ROAD)
LIGHTING CONTROLLER "C117" WIRING DIAGRAM**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-------------------|--------------------|---------------------|------------------|
| F.A.P. RTE. 330 | SECTION 103R-5 | COUNTY COOK | TOTAL SHEETS 778 | SHEET NO. 352 |
| E-28 | | CONTRACT NO. 60M62 | | |
| ILLINOIS FED. AID PROJECT | | | | |