

**CITY OF SIDNEY  
EXECUTIVE ORDER**

**TITLE:** COURTHOUSE SQUARE ELECTRICAL  
HOOKUP STANDARDS

**ISSUE BY:** Steven B. Stilwell, City Manager

**EFFECTIVE DATE:** January 1, 2004

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**PURPOSE**

The purpose of this policy is to provide instructions to visitors, vendors, and staff members as to the administrative process by which the City's eight (8) mobile distribution pedestals are to be accessed. This policy is designed as follows:

- to protect the visitors, vendors, and employees involved with community activities on the Courthouse Square
- to reduce confusion during the initial hookup time by advising all parties of the City's electrical standards and limitations associated with the temporary pedestals at the Courthouse Square

The basis for this Executive Order and the procedures for electrical hookups to the Courthouse Square electrical pedestals is the National Electric Code as modified.

Attachments

SS:jlg

3/6/2014

Z:\WPDOCS\CM\EO\Courthouse Square Electrical Hookup Stds.doc

# COURTHOUSE SQUARE ELECTRICAL HOOKUP STANDARDS

**To:           Event Coordinator**

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The City of Sidney and the Shelby County Commissioners improved the Courthouse Square area to preserve history, provide for the residents and be an attractive site for events such as yours. The City and County are proud to host your event and look forward to a successful opportunity to celebrate your organization, the City of Sidney and Shelby County.

Part of the Courthouse Square infrastructure improvements included the installation of an electrical distribution system, including eight (8) mobile distribution pedestals available for your organization.

It is the intent of the City to provide electricity to approved events in a safe fashion, in accordance with the National Electric Code. The eight pedestals are 50 amps at 220 volts or 20 amps at 110 volt facilities and will be allocated on a first come first serve basis, to the individual vendors with your event. Attached please find a list of minimum electrical criteria/connections from the National Electric Code to be provided by event coordinators and/or the vendors in order to insure safe attachments to the City's electrical distribution system. Lack of any or all of these criteria/connections will prohibit the City from hooking up electricity to your operation and/or your vendors. The City's representative, either a staff member or hired contractor, will make the "final" decision to connect to the City's electrical distribution system as guided by the National Electric Code and the need to provide safe electric service for your event.

Attached please find the following:

- a.     pertinent sections of the National Electric Code
- b.     a drawing of the Courthouse Square showing the location of the eight (8) electric pedestals

- c. the schematic electrical drawing of the pedestals
- d. list of minimum electric criteria/connections
- e. the City of Sidney Courthouse Square Electric Certificate attesting to your responsibilities

On behalf of City Council, I thank you for working with the City and adding to the vitality of the community.

Sincerely,

Steve Stilwell  
City Manager

SS:jlg  
Attachments

cc: Frank Mariano, Mayor

Z:\WPDOCS\CM\Electric-ltr to event coord.doc

### GENERAL NOTES

- A THIS CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES AND MISCELLANEOUS CONDUIT AND PIPES PRIOR TO ANY DIGGING. ANY DAMAGE TO ABOVE MENTIONED ITEMS SHALL BE HIS RESPONSIBILITY TO REPAIR. NOTE: ALL REPAIRS AND MODIFICATIONS TO UTILITIES SHALL BE CLOSELY COORDINATED WITH OWNING UTILITIES OFFICIALS.
- B ALL EXPOSED CONDUIT ABOVE GRADE WILL BE RIGID GALVANIZED METALLIC WITH SET SCREW ALL STEEL FITTING, PAINTED TO MATCH SURFACES ON WHICH THEY ARE MOUNTED.
- C ALL EXTERIOR MOUNTED DEVICES TO BE WATERPROOF NEMA 3R.
- D COORDINATE EXACT CONDUIT ROUTES WITH CITY OF SIDNEY TO AVOID CONFLICT WITH SIGNAGE, CURBS, TREE PLANTERS AND OTHER LANDSCAPE DETAILS.
- E WHERE CONDUIT(S) ARE TO BE INSTALLED BELOW CONCRETE SECTIONS 3 FT. IN WIDTH OR LESS, THE COMPLETE SECTION SHALL BE REMOVED AND REPLACED AFTER INSTALLATION OF CONDUIT(S). WHERE SECTIONS ARE LARGER THAN 3 FT. IN WIDTH, THE SECTION SHALL BE CUT TO FACILITATE INSTALLATION OF CONDUIT(S) AND PATCHED WITH NEW CONCRETE.
- F ALL TRAFFIC CONTROL OR BARRIERS SHALL BE COORDINATED WITH THE CITY OF SIDNEY. CONTRACTOR TO PROVIDE ALL NECESSARY TRAFFIC CONTROL IN ACCORDANCE WITH OHIO M.T.C.S. SEE MAINTENANCE OF TRAFFIC GENERAL NOTES AND DETAILS FOR REQUIREMENTS.
- G UTILIZE #12 WIRE SPLICED TO OVERSIZED CIRCUIT CONDUCTORS IN BASE OF POLE AT FUSE HOLDER TO FEED CORRESPONDING POLE MOUNTED RECEPTACLES.
- H UTILIZE ONE COMMON GROUND FOR ALL CIRCUITS. THE GROUND SHALL BE SIZED PER NEC FOR THE LARGEST CIRCUIT CONDUCTOR. CIRCUIT CONDUCTORS HAVE BEEN DERATED FOR VOLTAGE DROP.
- I ALL PL1 FIXTURE POLES WILL BE 5'-6" FROM BACK OF CURB TO CENTER OF FIXTURE POLE UNLESS NOTED OTHERWISE.
- J ALL CONDUCTORS WILL BE PLACED, ACCORDING TO UNDERGROUND DUCT DETAIL, UNDER PAVER SIDE WALKS AND CROSS WALKS.
- K ALL RECEPTACLE CIRCUITS TO BE RUN WITH A DEDICATED NEUTRAL.
- L THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE REMOVAL OF THE EXISTING STREET LIGHTS AND THE TEMPORARY ELECTRIC SERVICE TO THE SITE, INCLUDING ALL POWER TO CONTRACTOR OFFICES PER SPECIFICATION SECTION 16050. THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD, STREET LIGHTING SHALL BE PROVIDED IN THE DOWNTOWN AREA.

### NOTES

- 1 PANELBOARD MOUNTED INSIDE DISTRIBUTION EQUIPMENT ENCLOSURE. REFER TO DETAIL C, THIS SHEET.
- 2 REFER TO DETAIL D, THIS SHEET FOR CONTACTOR REQUIREMENTS.
- 3 ALL LIGHTING AND RECEPTACLES SHALL BE RUN THROUGH THE LIGHTING CONTACTORS.

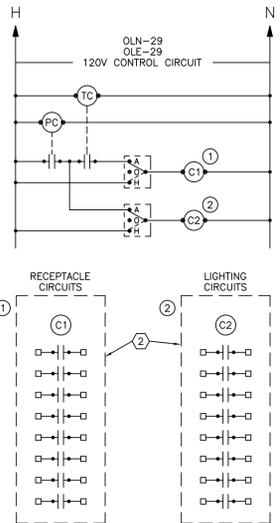
### FIXTURE DATA

- PL1 - HOLOPHANE #GV175MHXXLNSC-LAMP, GLASS LUMINAIRE 175W, TYPE V DISTRIBUTION, CLEAR FINIAL, 240V-1PH. COORDINATE FINISH PAINT COLOR WITH CITY OF SIDNEY. FIXTURE TO BE POST TOP MOUNTED ON 14'-2", BLACK FLUTED POLE (SPRING CITY #WASHINGTON #14 STANDARD STEEL 9 GAUGE POLE, HEAVY WALL CAST IRON BASE OR ENGINEER APPROVED EQUAL). PROVIDE RECEPTACLE BOXES AT 24" M.H. AND ABOVE BANNER ARM OR FLAG POLE MOUNTING BRACKET. PROVIDE FLAG POLE MOUNTING BRACKET OR TWIN BANNER ARMS AS INDICATED.
- PL2 - POLE AND TENON BY MAST ARM TRAFFIC SIGNALIZATION PROVIDER. TWIN HOLOPHANE #GV175MHXXLNSC-LAMP, GLASS LUMINAIRE 175W, TYPE V DISTRIBUTION, CLEAR FINIAL, 240V-1PH. COORDINATE FINISH PAINT COLOR WITH CITY OF SIDNEY. LUMINAIRES SHALL BE TENON MOUNTED.

### ELECTRIC PANELBOARD SCHEDULES

| PANEL: OLN (3) MOUNTING: (1) |        |      |          |      |                          |         |         |     |      |          |      |     |         |
|------------------------------|--------|------|----------|------|--------------------------|---------|---------|-----|------|----------|------|-----|---------|
| CONN. LOAD: - DEMAND LOAD: - |        |      |          |      | MOUNTING: (1)            |         |         |     |      |          |      |     |         |
| MAINS: 225A. M.L.O.          |        |      |          |      | VOLTAGE: 120/240V-1PH-3W |         |         |     |      |          |      |     |         |
| REMARKS                      | KVA    | BKR. | CKT. NO. | BKR. | KVA                      | REMARKS | REMARKS | KVA | BKR. | CKT. NO. | BKR. | KVA | REMARKS |
| .8-R                         | 20-1   | 1    | 2        | 20-1 | .6-R                     |         |         |     |      |          |      |     |         |
| .6-R                         |        | 3    | 4        |      | .4-R                     |         |         |     |      |          |      |     |         |
| .6-R                         |        | 5    | 6        |      | .4-R                     |         |         |     |      |          |      |     |         |
| .4-R                         |        | 7    | 8        |      | .8-R                     |         |         |     |      |          |      |     |         |
| .8-R                         |        | 9    | 10       |      | .8-R                     |         |         |     |      |          |      |     |         |
| .8-R                         |        | 11   | 12       | 20-2 | 2.1-L                    |         |         |     |      |          |      |     |         |
| .4-R                         |        | 13   | 14       |      | .4-R                     |         |         |     |      |          |      |     |         |
| 2.9-L                        | 20-2   | 15   | 16       | 20-2 | 1.5-L                    |         |         |     |      |          |      |     |         |
|                              |        | 17   | 18       |      |                          |         |         |     |      |          |      |     |         |
| 1.2-L                        | 20-2   | 19   | 20       | 60-2 | 1.0-R                    |         |         |     |      |          |      |     |         |
|                              |        | 21   | 22       |      |                          |         |         |     |      |          |      |     |         |
| 1.2-L                        | 20-2   | 23   | 24       | 60-2 | 1.0-R                    |         |         |     |      |          |      |     |         |
|                              |        | 25   | 26       |      |                          |         |         |     |      |          |      |     |         |
| SIGNAL LT                    | 1.0-C  | 20-1 | 27       | 28   | 60-2                     | 5.0-R   |         |     |      |          |      |     |         |
|                              | .2-C   |      | 29       | 30   |                          |         |         |     |      |          |      |     |         |
| SIGNAL LT                    | 1.0-C  |      | 31       | 32   | 60-2                     | 5.0-R   |         |     |      |          |      |     |         |
|                              | .2-R   |      | 33       | 34   |                          |         |         |     |      |          |      |     |         |
| SPARE                        |        | 35   | 36       | 60-2 | 5.0-R                    |         |         |     |      |          |      |     |         |
| SPARE                        |        | 37   | 38       |      |                          |         |         |     |      |          |      |     |         |
|                              | 10.0-R | 60-2 | 39       | 40   | 60-2                     | 5.0-R   |         |     |      |          |      |     |         |
|                              |        | 41   | 42       |      |                          |         |         |     |      |          |      |     |         |

ABBREVIATIONS: L-LIGHTS, R-RECEPTACLES, M-MOTORS, H-RESISTANCE HEAT, C-CONTROL, M.L.O.-MAIN LUGS ONLY, D.S.L.-DOUBLE SET OF LUGS, M.B.-MAIN BREAKER, L.C.-LOCKING CLIP ON BREAKER

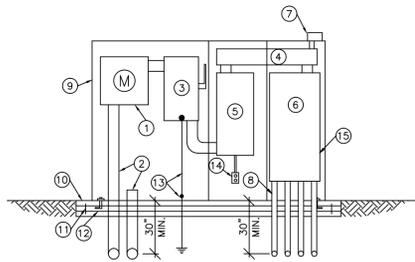


LIGHTING CONTROL DIAGRAM (D) E1

SCALE: NONE

### DETAIL NOTES

- 1 PROVIDE 4 8-POLE LIGHTING CONTACTORS IN ENCLOSURE OLN; 3, 8-POLE LIGHTING CONTACTORS IN ENCLOSURE OLE AND 2, 8-POLE LIGHTING CONTACTORS IN ENCLOSURE OLW FOR RECEPTACLE CIRCUITS.
- 2 PROVIDE 2, 8-POLE LIGHTING CONTACTORS FOR LIGHTING CIRCUITS.



POWER DISTRIBUTION PANEL - "PDP" (A) E1

SCALE: NONE

### LEGEND

- E.C. ELECTRICAL CONTRACTOR
- G.C. GENERAL CONTRACTOR
- E.S. EQUIPMENT SUPPLIER
- N.I.E.C. NOT IN ELECTRICAL CONTRACT
- WP WEATHERPROOF
- MH MOUNTING HEIGHT TO CENTERLINE OF ITEM UNLESS INDICATED OTHERWISE ON DRAWINGS.
- CKT CIRCUIT
- (3) NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH NOTE IS SHOWN.
- (2) DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH NOTE IS SHOWN.
- SECTION "A" DESIGNATION FROM PLAN E2, SHOWN ON SHEET E3.
- DETAIL B SHOWN ON SHEET E2.
- ELECTRICAL CONNECTION REQUIRED.
- EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; CAPITAL LETTER DENOTES PANEL; NUMBER DENOTES CIRCUIT.
- WIRE & CONDUIT BELOW GRADE.
- (J) JUNCTION BOX.
- (WP/GF) 20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.), WITH TAYMAC #20310 STANDARD COVER, VERTICAL MOUNT.
- (D) DISCONNECT SWITCH.
- (CB) CIRCUIT BREAKER PANEL, SURFACE MOUNTED.
- (H) HIGH VOLTAGE TERMINATION
- (T) TRANSFORMER
- (G) GROUND CONNECTION
- (400/300) FUSED SWITCH (400 AMP SWITCH FUSED AT 300 AMP, FUSE TYPE PER SPECS., 3 POLE UNLESS OTHERWISE NOTED)
- (M) MAIN LUG ONLY PANELBOARD
- (M) METER AND METER BASE
- (PC) PHOTOCELL IN A WEATHER PROOF ENCLOSURE. EQUAL TO TORK #2101
- (TC) 24 HOUR TIME SWITCH IN A NEMA 1 ENCLOSURE, EQUAL TO TORK #1101
- (R) EXISTING DP&L RISER POLE
- (PL1(B)) LIGHTING STANDARD WITH BASE. NUMBER INDICATES FIXTURE TYPE. REFER TO FIXTURE DATA THIS SHEET. LETTER IN PARENTHESES INDICATES MOUNTING ARM ON POLE. B-BANNER ARMS, F-FLAG POLE MOUNTING BRACKET, N-NO EXTENSION ARM. REFER TO SHEET E3 FOR POLE DETAILS.
- (E) DISTRIBUTION EQUIPMENT ENCLOSURE.
- (HH) HANDHOLE. SEE NOTE 5 ON SHEET E2.
- (MH) MANHOLE. SEE NOTE 4 ON SHEET E2.

### DETAIL NOTES

- 1 EXISTING DP&L 12.47KV OVERHEAD PRIMARY
- 2 EXISTING DP&L RISER POLES.
- 3 NEW DP&L 240V-1PH-3W POLE MOUNTED TRANSFORMER.
- 4 SECONDARY CONDUCTORS BY DP&L TO METER. EXTEND 3-#3/0, 4"C. FROM METER TO MAIN SERVICE DISCONNECT.
- 5 ELECTRICAL DISTRIBUTION ENCLOSURES, REFER TO DETAIL C, THIS SHEET.
- 6 BOND THE NEUTRAL TO THE SERVICE GROUND IN THE MAIN SERVICE DISCONNECT AND SERVICE GROUND ROD.
- 7 3-#3/0, 1-#6GRD., 2 1/2"C.

SINGLE-LINE DIAGRAM (B) E1

SCALE: NONE

### DETAIL NOTES

- 1 DP&L METER BASE. COORDINATE LOCATION WITH DP&L. E.C. TO INSTALL.
- 2 2-4" METALLIC RIGID CONDUIT, 1-SPARE FOR INCOMING SECONDARY. CAP SPARE CONDUIT 4" ABOVE GRADE.
- 3 200A-2P, 240V MAIN SERVICE DISCONNECT. PROVIDE GROUND BAR AND SOLID NEUTRAL. DISCONNECT TO HAVE LOCKABLE NEMA 3R ENCLOSURE, LOCK TO BE PROVIDED BY CITY.
- 4 WEATHERPROOF, 6"x6" WIREWAY WITH LOCKABLE HINGED COVER.
- 5 240V-1PH-3W 225A PANELBOARD. UTILIZE 14" WIDE PANEL TUB.
- 6 ELECTRICALLY OPERATED, MECHANICALLY HELD 8-POLE LIGHTING CONTACTORS AND ELECTRIC TIME SWITCH IN NEMA 1 ENCLOSURE. PROVIDE 2 WIRE CONTROL PILOT LIGHT. CONTACTORS EQUAL TO SQUARE D #8903-LX280-V02-C-F-R6-Y102. MOUNT H-O-A SWITCHES IN DOOR OF ENCLOSURE. REFER TO LIGHTING CONTROL DIAGRAM D, THIS SHEET. WIRE SWITCHES SUCH THAT DOOR MAY BE FULLY OPENED.
- 7 MOUNT PHOTOCELL ON TOP OF ENCLOSURE. SEAL AROUND CONDUIT PENETRATIONS.
- 8 BRANCH CIRCUIT CONDUITS, TYPICAL.
- 9 HEAVY-DUTY OUTDOOR EQUIPMENT ENCLOSURE, NEMA TYPE 3R EQUAL TO HENNESSY #HPD04415. SIZE ENCLOSURE BASED ON NUMBER OF LIGHTING CONTACTORS LISTED IN DIAGRAM D. PROVIDE CYLINDER TYPE LOCK WITH 2 KEYS, COORDINATE WITH CITY. ENTIRE ENCLOSURE SHALL BE STAINLESS STEEL.
- 10 CONCRETE PAD SIZED PER DISTRIBUTION EQUIPMENT ENCLOSURE MANUFACTURER'S RECOMMENDATIONS.
- 11 3 CONTINUOUS SURROUNDING BARS 12" O.C.
- 12 CONCRETE REINFORCING BARS, 1/2" DIA.
- 13 5/8"x10" LONG DRIVEN GROUND ROD. PROVIDE GROUNDING ELECTRODE CONDUCTOR UP TO SERVICE DISCONNECT. SERVICE GROUNDING TO MEET NEC, ARTICLE 250 REQUIREMENTS. GROUNDING ELECTRODE CONDUCTOR AND CONNECTION TO GROUND ROD TO BE LOCATED INSIDE ENCLOSURE.
- 14 PROVIDE A 20A-125V DUPLEX GROUND FAULT RECEPTACLE (NEMA 5-20R) IN 1-GANG BOX. (OLN-33, OLE-35)
- 15 FABRICATE PULLBOX UNDERNEATH CONTACTORS TO ALLOW ARRANGEMENT OF FEEDERS INTO CONDUITS AS SHOWN ON PLAN DRAWINGS.

LARGE DISTRIBUTION EQUIPMENT ENCLOSURE (C) E1

SCALE: NONE

### REVISIONS:

|              |               |
|--------------|---------------|
| FILE NAME    | 2000706E1     |
| DRAWN BY     | V.F.T.        |
| CHECKED BY   | V.F.T./J.R.H. |
| PROJECT NO.  | 2000706       |
| DATE         | 12/8/00       |
| SHEET NUMBER | E1 OF 3       |

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**DOWNTOWN STREETSCAPE PROJECT**  
**CITY OF SIDNEY**  
 LEGEND, SCHEDULES AND ELECTRICAL DETAILS

PROJECT NO. 2000706  
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 DATE: August 24, 2001  
 10-42

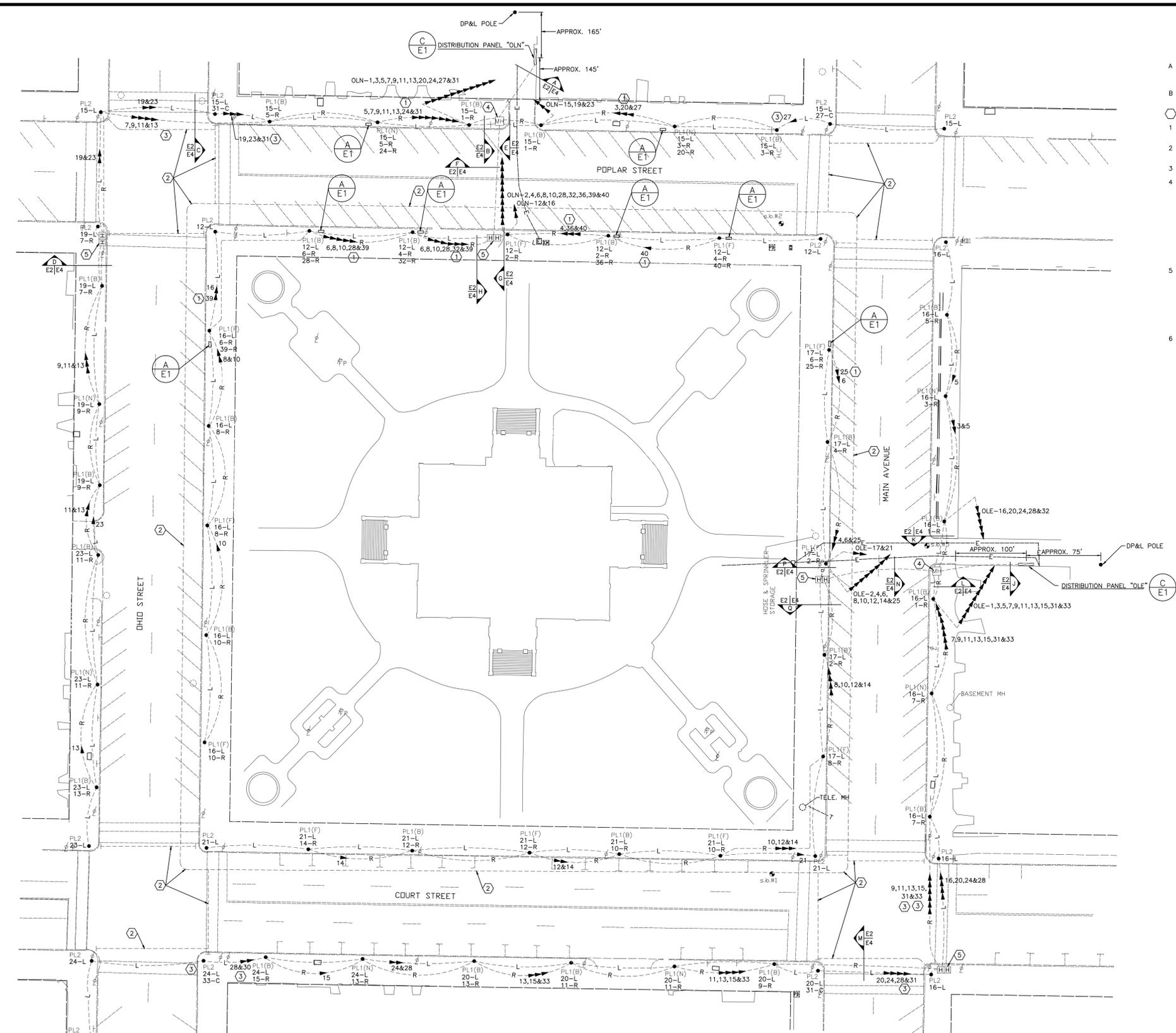


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PROJECT NO: 2000706  
 DRAWING NAME: 2000706E2.dwg  
 PLOT/EDIT DATE: August 24, 2001 - 08:46

PROJECT NO: 2000706  
 DRAWING NAME: 2000706E2.dwg  
 PLOT/EDIT DATE: August 24, 2001 - 08:46

| FEEDER SCHEDULE |                   |
|-----------------|-------------------|
| CIRCUIT NO.     | FEEDER SIZE       |
| OLE-1           | 2-#12, 1-#12 GND. |
| OLE-2           | 2-#10, 1-#10 GND. |
| OLE-3           | 2-#10, 1-#10 GND. |
| OLE-4           | 2-#10, 1-#10 GND. |
| OLE-5           | 2-#10, 1-#10 GND. |
| OLE-6           | 2-#8, 1-#10 GND.  |
| OLE-7           | 2-#10, 1-#10 GND. |
| OLE-8           | 2-#10, 1-#10 GND. |
| OLE-9           | 2-#8, 1-#10 GND.  |
| OLE-10          | 2-#8, 1-#10 GND.  |
| OLE-11          | 2-#8, 1-#10 GND.  |
| OLE-12          | 2-#8, 1-#10 GND.  |
| OLE-13          | 2-#8, 1-#10 GND.  |
| OLE-14          | 2-#8, 1-#10 GND.  |
| OLE-15          | 2-#8, 1-#10 GND.  |
| OLE-16          | 2-#6, 1-#8 GND.   |
| OLE-17          | 2-#10, 1-#10 GND. |
| OLE-20          | 2-#4, 1-#8 GND.   |
| OLE-21          | 2-#4, 1-#8 GND.   |
| OLE-24          | 2-#4, 1-#8 GND.   |
| OLE-25          | 2-#4, 1-#8 GND.   |
| OLE-28          | 2-#4, 1-#8 GND.   |
| OLE-29          | 2-#12, 1-#12 GND. |
| OLE-31          | 2-#2, 1-#8 GND.   |
| OLE-33          | 2-#2, 1-#8 GND.   |
| OLN-1           | 2-#12, 1-#12 GND. |
| OLN-2           | 2-#10, 1-#10 GND. |
| OLN-3           | 2-#10, 1-#10 GND. |
| OLN-4           | 2-#10, 1-#10 GND. |
| OLN-5           | 2-#10, 1-#10 GND. |
| OLN-6           | 2-#10, 1-#10 GND. |
| OLN-7           | 2-#8, 1-#10 GND.  |
| OLN-8           | 2-#8, 1-#10 GND.  |
| OLN-9           | 2-#8, 1-#10 GND.  |
| OLN-10          | 2-#8, 1-#10 GND.  |
| OLN-11          | 2-#8, 1-#10 GND.  |
| OLN-12          | 2-#8, 1-#10 GND.  |
| OLN-13          | 2-#8, 1-#10 GND.  |
| OLN-15          | 2-#4, 1-#8 GND.   |
| OLN-16          | 2-#4, 1-#8 GND.   |
| OLN-19          | 2-#6, 1-#8 GND.   |
| OLN-20          | 2-#4, 1-#8 GND.   |
| OLN-23          | 2-#4, 1-#8 GND.   |
| OLN-24          | 2-#4, 1-#8 GND.   |
| OLN-27          | 2-#4, 1-#8 GND.   |
| OLN-28          | 2-#2, 1-#8 GND.   |
| OLN-29          | 2-#12, 1-#12 GND. |
| OLN-31          | 2-#2, 1-#8 GND.   |
| OLN-32          | 2-#4, 1-#8 GND.   |
| OLN-36          | 2-#4, 1-#8 GND.   |
| OLN-39          | 2-#4, 1-#8 GND.   |
| OLN-40          | 2-#4, 1-#8 GND.   |



- GENERAL NOTES**
- REFER TO SIDEWALK JOINT LAYOUT PLANS AND AESTHETIC DETAILS FOR EXACT LOCATIONS OF LIGHT STANDARDS, HANDHOLES AND MANHOLES.
  - FEEDER SIZES IN FEEDER SCHEDULE ARE REQUIRED TO LIMIT VOLTAGE DROP.
- NOTES**
- PROVIDE 60A 240-1PH TWISTLOCK RECEPTACLE TO MATCH PLUG ON PDP. PROVIDE 60A CIRCUIT BACK TO DISTRIBUTION POINT.
  - 2-2" CONDUITS FOR SIGNALIZATION. COORDINATE EXACT LOCATION WITH CIVIL ENGINEER.
  - CIRCUIT FOR TRAFFIC SIGNALIZATION CONTROLLER.
  - PROVIDE A 48" x 48" x 36" DP, FLUSH GRADE PULLBOX, NEMA 3R, NO BASE (QUAZITE PG4848K36) AND A LOCKING COVER WITH PENTA-HEAD BOLTS (QUAZITE PG4848H400) RATED FOR OCCASIONAL HEAVY TRAFFIC. COORDINATE FRAME COVER COLOR WITH CITY OF SIDNEY. COVER LOGO "ELECTRIC". INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. STUB CONDUIT THROUGH MANHOLE SIDE WALLS. USE A QUAZITE GB WALL PUNCH AS NECESSARY FOR CONDUIT KNOCKOUTS. SIZE KNOCKOUT ONE TRADE SIZE LARGER THAN CONDUIT TO ALLOW FOR CONDUIT MOVEMENT. COORDINATE LOCATION OF BOX WITH CITY OF SIDNEY WHERE BOX WILL BE LOCATED IN NEW PAVERS. MOUNT BOX SUCH THAT TOP OF BOX WILL BE FLUSH WITH TOP OF FINISH SURFACE.
  - PROVIDE A 24" x 36" x 18" DP, FLUSH GRADE PULLBOX, NEMA 3R, NO BASE (QUAZITE PG2436B18) AND A LOCKING COVER WITH PENTA-HEAD BOLTS (QUAZITE PG2436H400) RATED FOR OCCASIONAL HEAVY TRAFFIC. COORDINATE FRAME COVER COLOR WITH CITY OF SIDNEY. COVER LOGO "ELECTRIC". INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. STUB CONDUITS UP INTO BOTTOM OF BOX. COORDINATE LOCATION OF BOX WITH CITY OF SIDNEY MOUNT BOX SUCH THAT TOP OF BOX WILL BE FLUSH WITH TOP OF FINISH SURFACE.
  - LIGHTING CIRCUIT OLE-28 IS FUTURE LIGHTING IN FRONT OF THE SHELLEY COUNTY DEPARTMENT OF JOB AND FAMILY SERVICES BUILDING. PROVIDE 6" PIGTAIL FOR FUTURE CONNECTION. TAPE ENDS OF WIRE FOR PROTECTION OF CONDUCTORS.

ELECTRICAL SITE PLAN  
 SCALE: 1" = 30'-0"

2 - WORKING DAYS  
 CALL BEFORE YOU DIG  
 CALL TOLL FREE 800-362-2764  
 OHIO UTILITIES PROTECTION SERVICE

PROJECT NO: 2000706  
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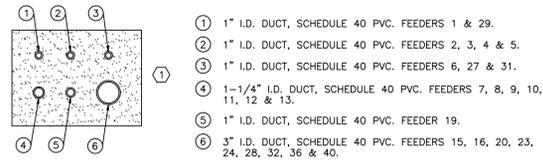
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**DOWNTOWN STREETSCAPE PROJECT**  
**CITY OF SIDNEY**  
 EXTERIOR LIGHTING AND POWER - BASE BID

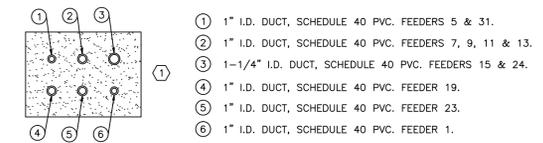
REVISIONS:

|              |                 |
|--------------|-----------------|
| FILE NAME    | 2000706E2       |
| DRAWN BY     | K.B.S. / N.R.A. |
| CHECKED BY   | W.F.T./J.R.H.   |
| PROJECT NO.  | 2000706         |
| DATE         | 12/8/00         |
| SHEET NUMBER | E2 OF 3         |



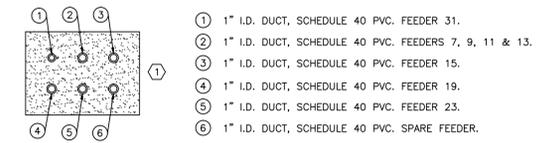
- 1 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 1 & 29.
- 2 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 2, 3, 4 & 5.
- 3 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 6, 27 & 31.
- 4 1-1/4" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 7, 8, 9, 10, 11, 12 & 13.
- 5 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 19.
- 6 3" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 15, 16, 20, 23, 24, 28, 32, 36 & 40.

UNDERGROUND DUCTS (A) E2  
SCALE: 1"=1'-0"



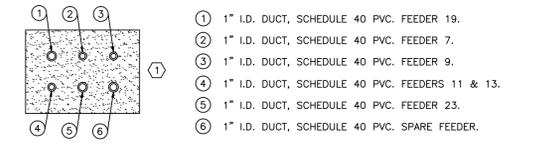
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- 3 1-1/4" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 15 & 24.
- 4 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 19.
- 5 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 23.
- 6 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 1.

UNDERGROUND DUCTS (B) E2  
SCALE: 1"=1'-0"



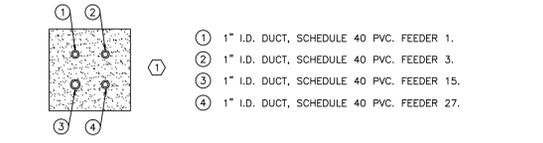
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- 3 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 15.
- 4 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 19.
- 5 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 23.
- 6 1" I.D. DUCT, SCHEDULE 40 PVC. SPARE FEEDER.

UNDERGROUND DUCTS (C) E2  
SCALE: 1"=1'-0"



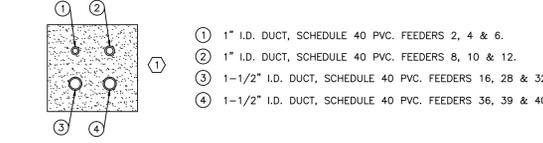
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- 3 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 9.
- 4 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 11 & 13.
- 5 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 23.
- 6 1" I.D. DUCT, SCHEDULE 40 PVC. SPARE FEEDER.

UNDERGROUND DUCTS (D) E2  
SCALE: 1"=1'-0"



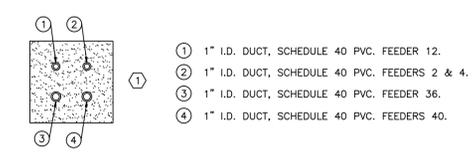
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- 3 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 15.
- 4 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 27.

UNDERGROUND DUCTS (E) E2  
SCALE: 1"=1'-0"



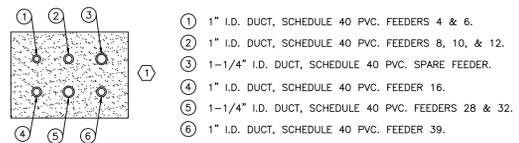
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- 2 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 8, 10 & 12.
- 3 1-1/2" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 16, 28 & 32.
- 4 1-1/2" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 36, 39 & 40.

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SCALE: 1"=1'-0"



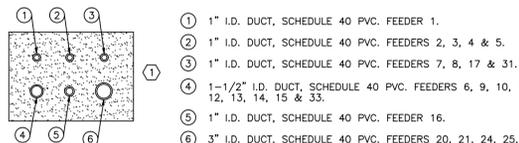
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- 3 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 36.
- 4 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 40.

UNDERGROUND DUCTS (G) E2  
SCALE: 1"=1'-0"



- 1 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 4 & 6.
- 2 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 8, 10, & 12.
- 3 1-1/4" I.D. DUCT, SCHEDULE 40 PVC. SPARE FEEDER.
- 4 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 16.
- 5 1-1/4" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 28 & 32.
- 6 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 39.

UNDERGROUND DUCTS (H) E2  
SCALE: 1"=1'-0"



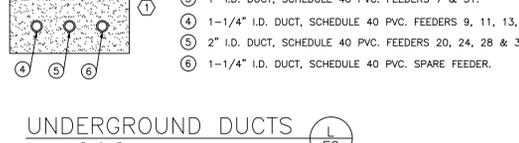
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- 3 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 7, 8, 17 & 31.
- 4 1-1/2" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 6, 9, 10, 11, 12, 13, 14, 15 & 33.
- 5 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 16.
- 6 3" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 20, 21, 24, 25, 28 & 32.

UNDERGROUND DUCTS (I) E2  
SCALE: 1"=1'-0"



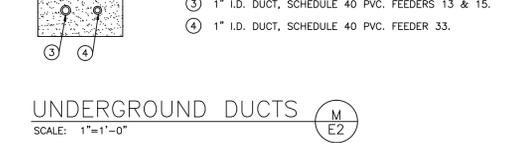
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UNDERGROUND DUCTS (J) E2  
SCALE: 1"=1'-0"



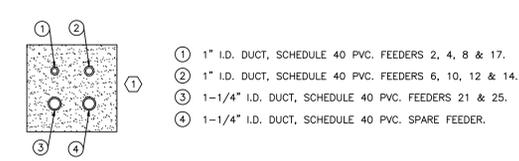
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- 2 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 1.
- 3 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 7 & 31.
- 4 1-1/4" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 9, 11, 13, 15 & 33.
- 5 2" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 20, 24, 28 & 32.
- 6 1-1/4" I.D. DUCT, SCHEDULE 40 PVC. SPARE FEEDER.

UNDERGROUND DUCTS (K) E2  
SCALE: 1"=1'-0"



- 1 2" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 20, 24, 28 & 32.
- 2 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 9 & 11.
- 3 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 13 & 15.
- 4 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 33.

UNDERGROUND DUCTS (L) E2  
SCALE: 1"=1'-0"



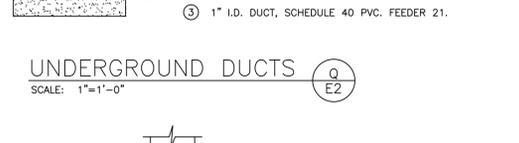
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- 2 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 6, 10, 12 & 14.
- 3 1-1/4" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 21 & 25.
- 4 1-1/4" I.D. DUCT, SCHEDULE 40 PVC. SPARE FEEDER.

UNDERGROUND DUCTS (M) E2  
SCALE: 1"=1'-0"



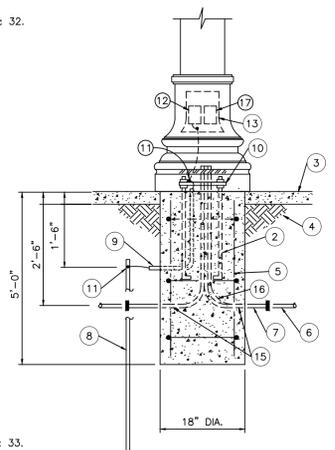
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UNDERGROUND DUCTS (N) E2  
SCALE: 1"=1'-0"

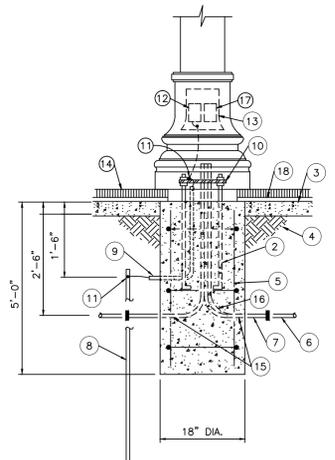


- 1 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 2, 8 & 17.
- 2 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDERS 10, 12 & 14.
- 3 1" I.D. DUCT, SCHEDULE 40 PVC. FEEDER 21.

UNDERGROUND DUCTS (O) E2  
SCALE: 1"=1'-0"



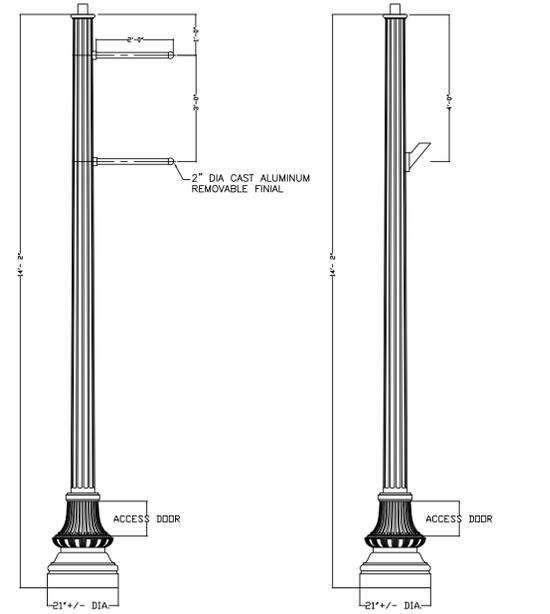
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SCALE: NONE



TYPE PL POLE BASE (S) E2  
SCALE: NONE

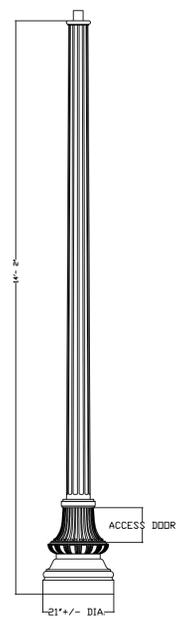
- DETAIL NOTES
- 1 SEE FIXTURE DATA, SHEET E2 FOR POLE AND FIXTURE ASSEMBLY.
  - 2 ANCHOR BOLTS BY POLE SUPPLIER, WELD TO REBARS
  - 3 CONCRETE WALK.
  - 4 FINISH GRADE, COMPACT TO 95%.
  - 5 SIX #4 REINFORCING BARS VERTICALLY ON #3 STIRRUPS AT 18" O.C.
  - 6 PVC CONDUIT, SCHEDULE 40.
  - 7 RIGID GALVANIZED STEEL CONDUIT.
  - 8 GROUND ROD, 5/8" X 10'-0"
  - 9 1/2" PVC GROUND CONDUCTOR SLEEVE WITH #8 GROUND CONDUCTOR.
  - 10 BASE PLATE, LEVELING NUTS, BASE GROUT
  - 11 EXOTHERMICALLY WELDED GROUND CONNECTION.
  - 12 LIGHTNING CIRCUIT AND REMOTE BALLAST.
  - 13 HANDHOLE
  - 14 NOTE OMITTED.
  - 15 LIGHTING CIRCUIT CONDUITS.
  - 16 RECEPTACLE CIRCUIT CONDUIT.
  - 17 RECEPTACLE CIRCUIT FUSING.

- DETAIL NOTES
- 1 SEE FIXTURE DATA, SHEET E2 FOR POLE AND FIXTURE ASSEMBLY.
  - 2 ANCHOR BOLTS BY POLE SUPPLIER, WELD TO REBARS
  - 3 5" CONCRETE UNDERLAYMENT.
  - 4 FINISH GRADE, COMPACT TO 95%.
  - 5 SIX #4 REINFORCING BARS VERTICALLY ON #3 STIRRUPS AT 18" O.C.
  - 6 PVC CONDUIT, SCHEDULE 40.
  - 7 RIGID GALVANIZED STEEL CONDUIT.
  - 8 GROUND ROD, 5/8" X 10'-0"
  - 9 1/2" PVC GROUND CONDUCTOR SLEEVE WITH #8 GROUND CONDUCTOR.
  - 10 BASE PLATE, LEVELING NUTS, BASE GROUT
  - 11 EXOTHERMICALLY WELDED GROUND CONNECTION.
  - 12 LIGHTNING CIRCUIT AND REMOTE BALLAST.
  - 13 HANDHOLE
  - 14 2-1/4" BRICK PAVERS.
  - 15 LIGHTING CIRCUIT CONDUITS.
  - 16 RECEPTACLE CIRCUIT CONDUIT.
  - 17 RECEPTACLE CIRCUIT FUSING.
  - 18 1" BIT ASPHALT SETTING BED.

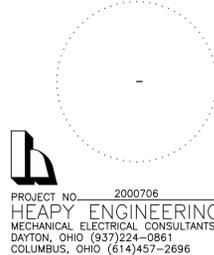


TYPE PL1(B) POLE (T) E2  
SCALE: NONE

TYPE PL1(F) POLE (U) E2  
SCALE: NONE



TYPE PL1(N) POLE (V) E2  
SCALE: NONE



PROJECT NO. 2000706  
HEAPY ENGINEERING  
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**DOWNTOWN STREETSCAPE PROJECT  
CITY OF SIDNEY**

| REVISIONS:   |               |
|--------------|---------------|
|              |               |
| FILE NAME    | 2000706E4     |
| DRAWN BY     | K.B.S.        |
| CHECKED BY   | V.F.T./J.R.H. |
| PROJECT NO.  | 2000706       |
| DATE         | 12/8/00       |
| SHEET NUMBER | E3 OF 3       |

PROJECT NO. 2000706  
 PLOTTED BY: WFL/CJMS  
 DRAWING NAME: 2000706E4.dwg  
 PLOT/EDIT DATE: August 24, 2001 - 10:39  
 EXTERNAL REFERENCE: 2000706E4.dwg  
 EXTERNAL REFERENCE: J:\GENERAL\DRAWINGS\OH--SEALRW.dwg  
 PROJECT NO. 2000706  
 HEAPY ENGINEERING LLP  
 MECHANICAL ELECTRICAL CONSULTANTS  
 DAYTON-COLUMBUS, OHIO (937)224-0861

- (2) The conductors are permanently separated from the power conductors by a continuous firmly fixed nonconductor, such as flexible tubing, in addition to the insulation on the wire.
- (3) The conductors are permanently and effectively separated from the power conductors and securely fastened to racks, insulators, or other approved supports.
- (4) In cable trays, where the control circuit conductors and power conductors not functionally associated with them are separated by a solid fixed barrier of a material compatible with the cable tray, or where the power or control circuit conductors are in a metal-enclosed cable.

**522.25 Ungrounded Control Circuits.** Separately derived ac and 2-wire dc circuits and systems 50 volts or greater shall be permitted to be ungrounded, provided that all the following conditions are met:

- (1) Continuity of control power is required for orderly shutdown.
- (2) Ground detectors are installed on the control system.

**522.28 Control Circuits in Wet Locations.** Where wet contact is likely to occur, ungrounded 2-wire direct-current control circuits shall be limited to 30 volts maximum for continuous dc or 12.4 volts peak for direct current that is interrupted at a rate of 10 to 200 Hz.

## ARTICLE 525 Carnivals, Circuses, Fairs, and Similar Events

### I. General Requirements

**525.1 Scope.** This article covers the installation of portable wiring and equipment for carnivals, circuses, fairs, and similar functions, including wiring in or on all structures.

#### 525.2 Definitions.

**Operator.** The individual responsible for starting, stopping, and controlling an amusement ride or supervising a concession.

**Portable Structures.** Units designed to be moved including, but not limited to, amusement rides, attractions, concessions, tents, trailers, trucks, and similar units.

#### 525.3 Other Articles.

(A) **Portable Wiring and Equipment.** Wherever the requirements of other articles of this *Code* and Article 525

differ, the requirements of Article 525 shall apply to the portable wiring and equipment.

(B) **Permanent Structures.** Articles 518 and 520 shall apply to wiring in permanent structures.

(C) **Audio Signal Processing, Amplification, and Reproduction Equipment.** Article 640 shall apply to the wiring and installation of audio signal processing, amplification, and reproduction equipment.

(D) **Attractions Utilizing Pools, Fountains, and Similar Installations with Contained Volumes of Water.** This equipment shall be installed to comply with the applicable requirements of Article 680.

### 525.5 Overhead Conductor Clearances.

(A) **Vertical Clearances.** Conductors shall have a vertical clearance to ground in accordance with 225.18. These clearances shall apply only to wiring installed outside of tents and concessions.

(B) **Clearance to Portable Structures.**

(1) **Under 600 Volts.** Portable structures shall be maintained not less than 4.5 m (15 ft) in any direction from overhead conductors operating at 600 volts or less, except for the conductors supplying the portable structure. Portable structures included in 525.3(D) shall comply with Table 680.8.

(2) **Over 600 Volts.** Portable structures shall not be located under or within a space that is located 4.5 m (15 ft) horizontally and extending vertically to grade of conductors operating in excess of 600 volts.

**525.6 Protection of Electrical Equipment.** Electrical equipment and wiring methods in or on portable structures shall be provided with mechanical protection where such equipment or wiring methods are subject to physical damage.

### II. Power Sources

**525.10 Services.** Services shall comply with 525.10(A) and (B).

(A) **Guarding.** Service equipment shall not be installed in a location that is accessible to unqualified persons, unless the equipment is lockable.

(B) **Mounting and Location.** Service equipment shall be securely fastened to a solid backing and be installed so as to be protected from the weather, unless of weather-proof construction.

**525.11 Multiple Sources of Supply.** Where multiple services or separately derived systems, or both, supply portable structures, the equipment grounding conductors of all

the sources of supply that serve such structures separated by less than 3.7 m (12 ft) shall be bonded together at the portable structures. The bonding conductor shall be copper and sized in accordance with Table 250.122 based on the largest overcurrent device supplying the portable structures, but not smaller than 6 AWG.

### III. Wiring Methods

#### 525.20 Wiring Methods.

(A) **Type.** Where flexible cords or cables are used, they shall be listed for extra-hard usage. Where flexible cords or cables are used and are not subject to physical damage, they shall be permitted to be listed for hard usage. Where used outdoors, flexible cords and cables shall also be listed for wet locations and shall be sunlight resistant. Extra-hard usage flexible cords or cables shall be permitted for use as permanent wiring on portable amusement rides and attractions where not subject to physical damage.

(B) **Single-Conductor.** Single-conductor cable shall be permitted only in sizes 2 AWG or larger.

(C) **Open Conductors.** Open conductors are prohibited except as part of a listed assembly or festoon lighting installed in accordance with Article 225.

(D) **Splices.** Flexible cords or cables shall be continuous without splice or tap between boxes or fittings.

(E) **Cord Connectors.** Cord connectors shall not be laid on the ground unless listed for wet locations. Connectors and cable connections shall not be placed in audience traffic paths or within areas accessible to the public unless guarded.

(F) **Support.** Wiring for an amusement ride, attraction, tent, or similar structure shall not be supported by any other ride or structure unless specifically designed for the purpose.

(G) **Protection.** Flexible cords or cables accessible to the public shall be arranged to minimize the tripping hazard and shall be permitted to be covered with nonconductive matting, provided that the matting does not constitute a greater tripping hazard than the uncovered cables. It shall be permitted to bury cables. The requirements of 300.5 shall not apply.

(H) **Boxes and Fittings.** A box or fitting shall be installed at each connection point, outlet, switchpoint, or junction point.

#### 525.21 Rides, Tents, and Concessions.

(A) **Disconnecting Means.** A means to disconnect each portable structure from all ungrounded conductors shall be provided. The disconnecting means shall be located within sight of and within 1.8 m (6 ft) of the operator's station. The dis-

connecting means shall be readily accessible to the operator, including when the ride is in operation. Where accessible to unqualified persons, the disconnecting means shall be lockable. A shunt trip device that opens the fused disconnect or circuit breaker when a switch located in the ride operator's console is closed shall be a permissible method of opening the circuit.

(B) **Portable Wiring Inside Tents and Concessions.** Electrical wiring for lighting, where installed inside of tents and concessions, shall be securely installed and, where subject to physical damage, shall be provided with mechanical protection. All lamps for general illumination shall be protected from accidental breakage by a suitable luminaire or lampholder with a guard.

**525.22 Portable Distribution or Termination Boxes.** Portable distribution or termination boxes shall comply with 525.22(A) through (D).

(A) **Construction.** Boxes shall be designed so that no live parts are exposed except when necessary for examination, adjustment, servicing, or maintenance by qualified persons. Where installed outdoors, the box shall be of weatherproof construction and mounted so that the bottom of the enclosure is not less than 150 mm (6 in.) above the ground.

(B) **Busbars and Terminals.** Busbars shall have an ampere rating not less than the overcurrent device supplying the feeder supplying the box. Where conductors terminate directly on busbars, busbar connectors shall be provided.

(C) **Receptacles and Overcurrent Protection.** Receptacles shall have overcurrent protection installed within the box. The overcurrent protection shall not exceed the ampere rating of the receptacle, except as permitted in Article 430 for motor loads.

(D) **Single-Pole Connectors.** Where single-pole connectors are used, they shall comply with 530.22.

#### 525.23 Ground-Fault Circuit-Interrupter (GFCI) Protection.

(A) **Where GFCI Protection Is Required.** GFCI protection for personnel shall be provided for the following:

- (1) All 125-volt, single-phase, 15- and 20-ampere non-locking-type receptacles used for disassembly and reassembly or readily accessible to the general public
- (2) Equipment that is readily accessible to the general public and supplied from a 125-volt, single-phase, 15- or 20-ampere branch circuit

The ground-fault circuit-interrupter shall be permitted to be an integral part of the attachment plug or located in the power-supply cord within 300 mm (12 in.) of the attachment plug. Listed cord sets incorporating ground-fault circuit-interrupter for personnel shall be permitted.

**(B) Where GFCI Protection Is Not Required.** Receptacles that are not accessible from grade level and that only facilitate quick disconnecting and reconnecting of electrical equipment shall not be required to be provided with GFCI protection. These receptacles shall be of the locking type.

**(C) Where GFCI Protection Is Not Permitted.** Egress lighting shall not be protected by a GFCI.

#### IV. Grounding and Bonding

**525.30 Equipment Bonding.** The following equipment connected to the same source shall be bonded:

- (1) Metal raceways and metal-sheathed cable
- (2) Metal enclosures of electrical equipment
- (3) Metal frames and metal parts of portable structures, trailers, trucks, or other equipment that contain or support electrical equipment

The equipment grounding conductor of the circuit supplying the equipment in items (1), (2) or (3) that is likely to energize the metal frame or part shall be permitted to serve as the bonding means.

**525.31 Equipment Grounding.** All equipment to be grounded shall be connected to an equipment grounding conductor of a type recognized by 250.118 and installed in accordance with Parts VI and VII of Article 250. The equipment grounding conductor shall be connected to the system grounded conductor at the service disconnecting means or, in the case of a separately derived system such as a generator, at the generator or first disconnecting means supplied by the generator. The grounded circuit conductor shall not be connected to the equipment grounding conductor on the load side of the service disconnecting means or on the load side of a separately derived system disconnecting means.

**525.32 Grounding Conductor Continuity Assurance.** The continuity of the grounding conductor system used to reduce electrical shock hazards as required by 250.114, 250.138, 406.4(C), and 590.4(D) shall be verified each time that portable electrical equipment is connected.

### ARTICLE 530 Motion Picture and Television Studios and Similar Locations

#### I. General

**530.1 Scope.** The requirements of this article shall apply to television studios and motion picture studios using either film or electronic cameras, except as provided in 520.1, and

exchanges, factories, laboratories, stages, or a portion of the building in which film or tape more than 22 mm (7/8 in.) width is exposed, developed, printed, cut, edited, reworked, repaired, or stored.

**Informational Note:** For methods of protecting against cellulose nitrate film hazards, see NFPA 40-2011, *Standard for the Storage and Handling of Cellulose Nitrate Film*.

#### 530.2 Definitions.

**Alternating-Current Power Distribution Box (Alternating-Current Plugging Box, Scatter Box).** An ac distribution center or box that contains one or more grounding-type polarized receptacles that may contain overcurrent protective devices.

**Bull Switch.** An externally operated wall-mounted safety switch that may or may not contain overcurrent protection and is designed for the connection of portable cables and cords.

**Location (Shooting Location).** A place outside a motion picture studio where a production or part of it is filmed or recorded.

**Location Board (Deuce Board).** Portable equipment containing a lighting contactor or contactors and overcurrent protection designed for remote control of stage lighting.

**Motion Picture Studio (Lot).** A building or group of buildings and other structures designed, constructed, or permanently altered for use by the entertainment industry for the purpose of motion picture or television production.

**Plugging Box.** A dc device consisting of one or more 2-pole, 2-wire, nonpolarized, nongrounding-type receptacles intended to be used on dc circuits only.

**Portable Equipment.** Equipment intended to be moved from one place to another.

**Single-Pole Separable Connector.** A device that is installed at the ends of portable, flexible, single-conductor cable that is used to establish connection or disconnection between two cables or one cable and a single-pole, panel-mounted separable connector.

**Spider (Cable Splicing Block).** A device that contains busbars that are insulated from each other for the purpose of splicing or distributing power to portable cables and cords that are terminated with single-pole busbar connectors.

**Stage Effect (Special Effect).** An electrical or electromechanical piece of equipment used to simulate a distinctive visual or audible effect such as wind machines, lightning simulators, sunset projectors, and the like.

**Stage Property.** An article or object used as a visual element in a motion picture or television production, except painted backgrounds (scenery) and costumes.

## **MINIMUM ELECTRIC CRITERIA/CONNECTIONS**

### **For 120 volt hook-up:**

- Minimum #14 extra hard usage rubber cord with 15 or 20 amp male cord cap and listed for wet locations

### **For 220 volt hook-up:**

- 4 wire extra hard usage rubber cord (25 foot maximum) listed for wet locations
- If cord is smaller than #6, must be protected by breaker or fuses at the trailer rated for the size of cord used (i.e. #12 cord – 20 amps. #10 cord – 30 amp.; #8 cord - 40 amp.)

All rubber cords for hook-up shall be continuous and without splices or taps between the City hook-up and the vendor's trailer.

All requirements are taken from Article 525 and Table 400.4(A) of the 2011 National Electrical Code.

## COURTHOUSE SQUARE ELECTRIC CERTIFICATION

I, \_\_\_\_\_, owner and/or representative  
of \_\_\_\_\_ recognize that  
the City of Sidney is providing electrical service for my operation at 50 amp at 220 volt  
and 20 amp at 110 volt capacity. Through my signature below, I accept any and all  
liability concerning the use of electricity for my operation and/or facility, hold harmless  
the City, and retain all responsibilities to be in compliance with all National Electric  
Code rules and regulations.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name