

VWSP - POWER DISTRIBUTION TERMINAL BLOCKS

MEDIAN LIGHTS - 2 POLE, MAIN = 1, BRANCH = 4 SQD LBA 263104 OR EQ

MEDIAN NORTH, MEDIAN SOUTH & SPACE

PARKWAY LIGHTS - 2 POLE, MAIN = 1, BRANCH = 6 SQD LBA 263106 OR EQ

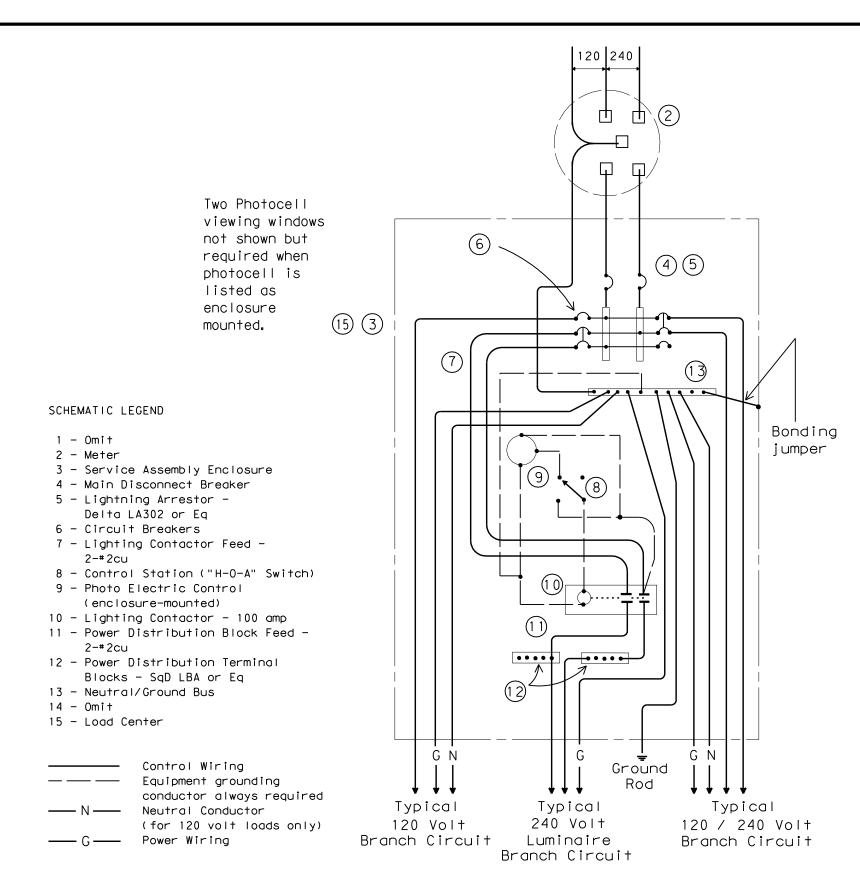
LT PARKWAY SOUTH, LT PARKWAY NORTH, RT PARKWAY SOUTH RT PARKWAY NORTH, PARK ROAD & SPACE

|                           |         |        |       |       |        |          |   |      | Single Phase            |         | ule     | Schedu | Panel  |
|---------------------------|---------|--------|-------|-------|--------|----------|---|------|-------------------------|---------|---------|--------|--------|
|                           |         | / 2009 | 9/ 25 | Date: |        |          |   |      |                         | venue   | Ponte A | ect:   | Pro    |
| 400                       | Bkr:    | Mair   |       |       | 240    | ·L>:     | Volts <l-< td=""><td></td><td>PAP - Ponte Pedestal</td><td></td><td></td><td>Name:</td><td>Panel</td></l-<> |      | PAP - Ponte Pedestal    |         |         | Name:  | Panel  |
|                           | Lugs:   | Main   |       |       | 120    | G>:      | Volts <l-0< td=""><td></td><td></td><td></td><td></td><td></td><td>Mfg:</td></l-0<>                         |      |                         |         |         |        | Mfg:   |
| 22,000                    | I AIC   | Pane   |       |       | 1      | e:       | Phase   |      |                         |         |         | :      | Mode   |
| Υ                         | al Bar: | Neutr  |       |       | 3      |          | Wires:  |      |                         |         |         | ption: | Desar  |
| Υ                         | nd Bar: | Grour  |       |       | oor    | =Outd    | Indoor, "O" =   | " "  | l                       |         |         | on:    | Locati |
|                           |         |        |       |       | It-In  | "B" = Bo | =Standard, "  | _ "S | S                       |         | nting:  | er Mou | Break  |
|                           | No. Bkr | Trip   | Bkr   | Pos.  | VA     | Load     | l   |      |                         | No. Bkr | Trip    | Bkr    | Pos.   |
| Serves                    | Poles   | Amps   | No.   | No.   | L2     |          | L1  |      | Serves                  | Poles   | Amps    | No.    | No.    |
|                           |         |        |       |       |        |          | 4274  | <    | Lighting Contactor      | 2       | 50      |        | 1      |
| Pedestal Duplex Outlet    | 1       | 20     |       | 2     | >>     | _ > >    | 1920  |      |                         |         |         |        |        |
|                           |         |        |       |       | 4274   | < <      | < ·   | <    | Lighting Contactor      |         | 50      |        | 3      |
| TrafficSgnal              | 1       | 50     |       | 4     | 4800 > |          |   |      |                         |         |         |        |        |
|                           |         |        |       |       |        |          |   | <    | Spare                   | 1       | 20      |        | 5      |
| Spare                     | 1       | 20     |       | 6     | >>     | > >      |   |      |                         |         |         |        |        |
|                           |         |        |       |       |        | < <      | < ·   | <    | Space                   |         |         |        | 7      |
| Space                     |         |        |       | 8     | >      |          |   |      |                         |         |         |        |        |
|                           |         |        |       |       |        |          |   | <    | Space                   |         |         |        | 9      |
| Space                     |         |        |       | 10    | >>     | _ > >    |   |      |                         |         |         |        |        |
|                           |         |        |       |       | 3840   | < <      | < ·   | <    | Street Fountain South   | 2       | 40      |        | 11     |
| Street Fountain North - F | 2       | 40     |       | 12    | 3840 > |          |   |      |                         |         |         |        |        |
|                           |         |        |       |       |        |          | 3840  | <    | Street Fountain South   |         | 40      |        | 13     |
| Street Fountain North - F |         | 40     |       | 14    | >>     | _ > >    | 3840  |      |                         |         |         |        |        |
|                           |         |        |       |       | 1920   | < <      | < ·   | <    | Two Duplex Outlets - SE | 1       | 20      |        | 15     |
| Two Duplex Outlets - NE   | 1       | 20     |       | 16    | 1920 > |          |   |      |                         |         |         |        |        |
|                           |         |        |       |       |        |          | 1920  | <    | Two Duplex Outlets - SE | 1       | 20      |        | 17     |
| Two Duplex Outlets - NE   | 1       | 20     |       | 18    | >>     | > >      | 1920  |      |                         |         |         |        |        |
|                           |         |        |       |       | 1920   | < <      | < ·   | <    | Quad Outlet 1 - SE      | 2       | 20      |        | 19     |
| Quad Outlet 1 - NE        | 2       | 20     |       | 20    | 1920 > |          |   |      |                         |         |         |        |        |
|                           |         |        |       |       |        |          | 1920  | <    | Quad Outlet 1 - SE      |         | 20      |        | 21     |
| Quad Outlet 1 - NE        |         | 20     |       | 22    | >>     | _ > >    | 1920  |      |                         |         |         |        |        |
|                           |         |        |       |       | 1560   | < <      | < ·   | <    | Quad Outlet 2 - SE      | 2       | 20      |        | 23     |
| Quad Outlet 2 - NE        | 2       | 20     |       | 24    | 1800 > |          |   |      | Future Spare 1920W      |         |         |        |        |
| Future Spare 1920W        |         |        |       |       |        |          | 1560  | <    | Quad Outlet 2 - SE      |         | 20      |        | 25     |
| Quad Outlet 2 - NE        |         | 20     |       | 26    | >>     | > >      | 1800  |      | Future Spare 1920W      |         |         |        |        |
| Future Spare 1920W        |         |        |       |       |        | < <      | < ·   | <    | Space                   |         |         |        | 27     |
| Space                     |         |        |       | 28    | >      | _        |   |      |                         |         |         |        |        |
|                           |         |        |       |       |        |          |   | <    | Space                   |         |         |        | 29     |
| Space                     |         |        |       | 30    | >>     | >        |   |      |                         |         |         |        |        |
|                           |         |        |       |       |        | < <      | < ·   | <    | Space                   |         |         |        | 31     |
| Space                     |         |        |       | 32    | >      |          |   |      |                         |         |         |        |        |
|                           |         |        |       |       |        |          |   |      |                         |         |         |        |        |

PAP - POWER DISTRIBUTION TERMINAL BLOCKS

PARKWAY LIGHTS - 2 POLE, MAIN = 1, BRANCH = 6 SqD LBA 263106 OR EQ

PARKWAY NORTHWEST, PARKWAY NORTHEAST, PARKWAY SOUTHWEST, PARKWAY SOUTHEAST & SPACE



### SCHEMATIC TYPE D 120/240 VOLTS - THREE WIRE

## TYPE D SERVICE NOTES

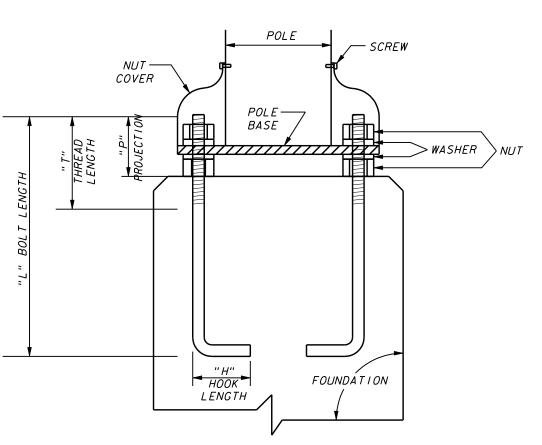
Photocell and lighting contactor shall be located in the same UL type 3R enclosure with load center. There shall be a window on each side of enclosure to allow operation of photocell. Both photocell, contactor and breaker area shall have dead front trim. Type D load center with lighting controls shall have power distribution blocks for a minimum of 12, #2 conductors.

### **ELECTRIC SERVICE** PEDESTAL SCHEMATIC

| Panel   | Sched  | ule      |         | Single Phase            |       |                |          |          |    |       |      |         |          |                          |      |
|---------|--------|----------|---------|-------------------------|-------|----------------|----------|----------|----|-------|------|---------|----------|--------------------------|------|
| Proj    | ect:   | Vitruvia | an Way  |                         |       |                |          |          |    | Date: | 9/2  | 5/2009  |          |                          |      |
| Panel   | Name   | •        |         | WNP-North Pedestal      |       | Volts⊄-        | L>:      | 240      |    |       |      | Mair    | n Bkr:   | 200                      | Amp  |
| Mfg:    |        |          |         |                         |       | Volts⊲L-0      | 3>:      | 120      |    |       |      | Main    | Lugs:    |                          | Amp  |
| Model   | :      |          |         |                         |       | Phase          | :        | 1        |    |       |      | Pane    | el AIC   | 22,000                   | Amp  |
| Descri  | ption: |          |         |                         |       | Wires:         |          | 3        |    |       |      | Neutr   | ral Bar: | Υ                        | Y/ 1 |
| Locatio | on:    |          |         | I                       | " " : | =Indoor, "O" = | =Out     | door     |    |       |      | Grour   | nd Bar:  | Υ                        | Y/ N |
| Break   | er Mou | inting:  |         | S                       | "S'   | =Standard, "   | B" = E   | 3olt-In  |    |       |      |         |          |                          |      |
| Pos.    | Bkr    | Trip     | No. Bkr |                         |       |                | Loa      | d VA     |    | Pos.  | Bkr  | Trip    | No. Bkr  |                          |      |
| No.     | No.    | Amps     | Poles   | Serves                  |       | L1             |          | L2       |    | No.   | No.  | Amps    | Poles    | Serves                   |      |
| 1       |        | 100      | 2       | Lighting Contactor      | <     | 9522           |          |          |    |       |      |         |          |                          |      |
|         |        |          |         |                         |       | 1920           | >        | >        | >> | 2     |      | 20      | 1        | Pedestal Duplex Outlet   |      |
| 3       |        | 100      |         | Lighting Contactor      | <     | <              | < <      | 9522     |    |       |      |         |          |                          |      |
|         |        |          |         |                         |       |                |          | 1920     | >  | 4     |      | 20      | 1        | Irrigation Controller    |      |
| 5       |        | 20       | 1       | Spare                   | <     |                |          |          |    |       |      |         |          |                          |      |
|         |        |          |         |                         |       | 1920           | >        | >        | >> | 6     |      | 20      | 1        | Two Duplex Outlets - VP  | Ŋ    |
| 7       |        |          |         | Space                   | <     | <              | < <      |          |    |       |      |         |          |                          |      |
|         |        |          |         |                         |       |                |          | 1920     | >  | 8     |      | 20      | 1        | Two Duplex Outlets - VP  | Ŋ    |
| 9       |        |          |         | Space                   | <     |                |          |          |    |       |      |         |          |                          |      |
|         |        |          |         |                         |       |                | >        | >        | >> | 10    |      |         |          | Space                    |      |
| 11      |        |          |         | Space                   | <     | < ·            | < <      |          |    |       |      |         |          |                          |      |
|         |        |          |         |                         |       |                |          |          | >  | 12    |      |         |          | Space                    |      |
|         |        |          |         | Connected VA per Leg    | =     | 13362          |          | 13362    |    |       |      |         |          |                          |      |
|         |        |          |         | Total Amps per Leg =    |       | 111            |          | 111      |    |       |      |         |          |                          |      |
|         |        |          |         |                         |       |                |          |          |    |       |      |         |          |                          |      |
|         |        |          |         |                         |       |                |          |          |    |       |      | Main    | Lugs:    | Lighting Contactor       | _    |
| Pos.    | Bkr    | Trip     | No. Bkr |                         |       |                | l na     | d VA     |    | Pos.  | Bkr  | Trip    | No. Bkr  |                          |      |
| No.     | No.    | Amps     | Poles   | Serves                  |       | L1             |          | L2       |    | No.   | No.  | Amps    | Poles    | Serves                   |      |
| 1       | 140.   | 55       | 2       | Median Distribution Blk | _     | 5200           | <u> </u> | <u> </u> |    | 1 10. | 140. | , «11þ3 | 1 0103   | <u> </u>                 |      |
| 1       |        | 35       |         | Median Distribution bik |       | 4344           | >        | >        | >> | 2     |      | 45      | 2        | Parkway Distribution Blk |      |
| 3       |        | 55       |         | Median Distribution Blk | <     | <              |          |          |    | _     |      |         |          | ,                        |      |
|         |        |          |         |                         |       |                |          | 4344     | >  | 4     |      | 45      |          | Parkway Distribution Blk |      |
|         |        |          |         | Connected VA per Leg    | =     | 9544           |          | 9544     |    |       |      |         |          |                          |      |
|         |        |          |         | Total Amps per Leg =    |       | 80             |          | 80       |    |       |      |         |          |                          |      |

VWNP - POWER DISTRIBUTION TERMINAL BLOCKS MEDIAN LIGHTS - 2 POLE, MAIN = 1, BRANCH = 4 SqD LBA 263104 OR EQ MEDIAN NORTH, PARK ROAD & SPACE PARKWAY LIGHTS - 2 POLE, MAIN = 1, BRANCH = 6 SqD LBA 263106 OR EQ LT PARKWAY SOUTH, LT PARKWAY NORTH, RT PARKWAY SOUTH

RT PARKWAY NORTH, PARK NORTH & SPACE



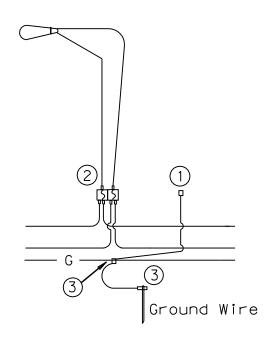
1. USE ANCHOR BOLT TEMPLATE FURNISHED BY POLE MANUFACTURER FOR ANCHOR BOLT ALIGNMENT.

2. ALL EXPOSED HARDWARE TO BE STAINLESS STEEL.

| TYPE<br>NO. | BOL T<br>DIA.<br>(IN.) | LENGTH<br>"L"<br>(IN.) | HOOK<br>"H"<br>(IN.) | THREAD<br>" T"<br>( IN. ) | PROJECTION<br>"P"<br>(IN.) |
|-------------|------------------------|------------------------|----------------------|---------------------------|----------------------------|
| 45          | 3/4                    | 17                     | 3 1/2                | 5 1/2                     | 3 1/2                      |
| 47          | 1                      | 36                     | 4                    | 6                         | 4                          |

SUPPLY 2 NUTS & 2 WASHERS WITH EACH BOLT

### ANCHOR BOLT DETAIL



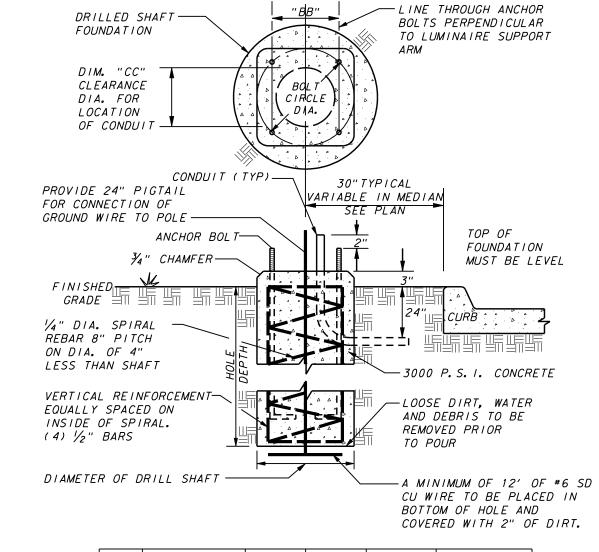
FOR THREE-WIRE CIRCUIT-CENTER GROUNDED LUMINAIRES SERVED AT 240V FOR 120/240 VOLT SERVICE

SINGLE FIXTURE

# NOTES:

- Use threaded, copper or tin-plated copper, pole bonding connector, sized appropriately for conductors.
- Double-Pole Inline fuse and connector, sized appropriately for conductors. Bussmann TRON HEY with 2A0660 & 2A0661 Insulating Boots and LIMITRON KTK-R fast acting fuses or equal -100W fixture use 1 amp fuses, 400 W fixture use 4 amp fuses.
- Split Bolt or other connector.

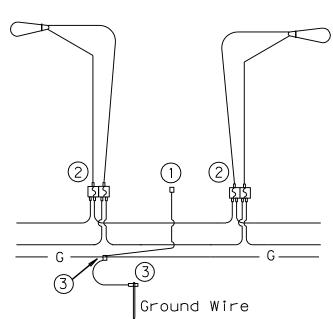
### **ELECTRICAL CONNECTION DETAIL**



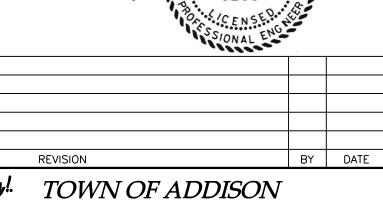
<u>DRILLED SHAFT FOUNDATION</u> <u>PLAN VIEW (ENLARGED)</u>

| TYPE | SHA   | 4 <i>FT</i> | BOLT           | ANCHOR      | CONDUIT                | DISTANCE              |
|------|-------|-------------|----------------|-------------|------------------------|-----------------------|
| NO.  | DEPTH | DIA.        | CIRCLE<br>DIA. | TYPE<br>NO. | CLEARANCE<br>DIM. "CC" | ACROSS BOLTS DIM "BB" |
| 1    | 60"   | 18"         | 9 1/2"         | 45          | 4 1/2"                 | 6 3/4"                |
| 2    | 60"   | 18"         | 9 1/2"         | 45          | 4 1/2"                 | 6 3/4"                |
| 3    | 72"   | 24"         | 11 1/2"        | 47          | 7 1/2                  | 8 3/6 "               |
| 4    | 72"   | 24"         | 11 1/2"        | 47          | 7 1/2                  | 8 3/6"                |

#### DRILLED SHAFT FOUNDATION



FOR THREE-WIRE CIRCUIT-CENTER GROUNDED LUMINAIRES SERVED AT 240V FOR 120/240 VOLT SERVICE DOUBLE FIXTURE



DALLAS COUNTY, TEXAS

PAVING, DRAINAGE & UTILITY IMPROVEMENTS 🖹 VITRUVIAN WAY & PONTE AVENUE

# STREET LIGHT DETAILS

|         |                         |                             |   |             | 1 4   |       |
|---------|-------------------------|-----------------------------|---|-------------|-------|-------|
| icon    | Consult<br>Civil Engine | ing Engin<br>eers - Designe | 250 W. Southlake E<br>Southlake, Tx 76092 | •           | DRAIN |       |
| PROJECT | DESIGN                  | DRAWN                       | DATE                                      | FILE        | SHEET | VING. |
| 5029-01 | ICE                     | ICE                         | MAY 7<br>2009                             | PW# 2009-01 | 53    | PAVI  |