	Schedu	ıle		Single Phase											
Proj	ect:	Vitruvia	n Park							Date:	9/25	/2009			
Panel	Name:			VPEP - East Pedestal		Volts <l-l< td=""><td>.&gt;:</td><td>240</td><td></td><td></td><td></td><td>Maiı</td><td>n Bkr:</td><td>200</td><td>Amp</td></l-l<>	.>:	240				Maiı	n Bkr:	200	Amp
Mfg:						Volts <l-g< td=""><td>i&gt;:</td><td>120</td><td></td><td></td><td></td><td>Main</td><td>Lugs:</td><td></td><td>Amp</td></l-g<>	i>:	120				Main	Lugs:		Amp
Model	l:					Phase:		1				Pane	el AIC:	22,000	Amp
Descri	ption:					Wires:		3				Neuti	al Bar:	Y	Y/N
Locatio	on:			1	" " =	Indoor, "O" =	Out	door				Grou	nd Bar:	Y	Y/N
3reake	er Mou	nting:		S	"S" :	= Standard, "E	3" =	Bolt-In							
Pos.	Bkr	Trip	No. Bkr			L	.oa	d VA		Pos.	Bkr	Trip	No. Bkr		
No.	No.	Amps	Poles	Serves		L1		L2		No.	No.	Amps	Poles	Serves	
1		65	2	Lighting Contactor	<	4464									
						2880	>	>	>>	2		30	2	Belvedere Simplex Outle	t
3		65		Lighting Contactor	< <	< <	< <	4464							
								2880	>	4		30		Belvedere Simplex Outle	t I
5		20	1	Pedestal Duplex Outlet	<	1920									
						1920	>	>	>> 1	6		20	2	Belvedere Quad Outlet 1	
7		20	1	Irrigation Controls	< <	< <	< <	1920							
								1920	>	8		20		Belvedere Quad Outlet 1	
9		20	1	Two Duplex Outlets - S	<	1920									
						1920	>	>	>> ]	10		20	1	Two Duplex Outlets - N	
11		20	1	Two Duplex Outlets - S	< <	< <	< <								
								1920	>	12		20	1	Two Duplex Outlets - N	
13				Space	<										
								>	>> 	14		20	1	Spare	
15				Space	< <	< <	< <								
				_					>	16				Space	
17				Space	<										
						45004	>	>	>>	18				Space	
				Connected VA per Leg = Total Amps per Leg =	=	15024		15024							

VPEP - LIGHTING DISTRIBUTION TERMINAL BLOCKS 2 POLE, MAIN = 1, BRANCH = 6 SqD LBA 263106 OR EQ VITRUVIAN PARK WEST NORTH, VITRUVIAN PARK WEST SOUTH, VITRUVIAN PARK EAST NORTH, VITRUVIAN PARK EAST SOUTH, SPACE & SPACE

Panel	Sched	ule		Single Phase											
Pro	ject:	Vitruvia	an Park							Date:	8/16	6/2010			
Panel Name:			VPWP - West Pedestal		Volts <l-l></l-l>		>: 240				Main Bkr:		200	Amps	
Mfg:						Volts <l-0< td=""><td>G&gt;:</td><td>120</td><td></td><td></td><td></td><td>Main</td><td>Lugs:</td><td></td><td>Amps</td></l-0<>	G>:	120				Main	Lugs:		Amps
Mode	el:					Phase	:	1				Pane	el AIC:	22,000	Amps
Descr	iption:					Wires:		3				Neuti	ral Bar:	Υ	Y / N
Locati	ion:			<u> </u>	" " :	= Indoor, "O" =	Out	tdoor				Grou	nd Bar:	Y	Y / N
Break	er Mou	unting:		S	"S"	= Standard, "	в" =	Bolt-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		30	2	WO Simplex Outlet 2 - S	<	2880									
						2880	>	>	>>	2		30	2	WO Simplex Outlet 1 - N	
3		30		WO Simplex Outlet 2 - S	<	<	< <	2880							
								2880	>	4		30		WO Simplex Outlet 1 - N	
5		20	2	WO Quad Outlet 3 - S	<	1920									
						1920	>	>	>>	6		20	2	WO Quad Outlet 1 - N	
7		20		WO Quad Outlet 3 - S	<	<	< <	1920							
								1920	>	8		20		WO Quad Outlet 1 - N	
9		20	2	WO Quad Outlet 4 - S	<	1920									
						1920	>	>	>>	10		20	2	WO Quad Outlet 2 - N	
11		20		WO Quad Outlet 4 - S	<	<	< <	1920							
							_	1920	>	12		20		WO Quad Outlet 2 - N	
13		20	1	Two Duplex Outlets - S	<	1920									
						1920	>	>	>> 1	14		20	1	Spare	
15		20	1	Two Duplex Outlets - S	<	<	< <	1920							
							_		>	16		20	1	Spare	
17		20	2	Lighting Contactor (BAL)	<	1920									
							>	>	>>	18				Space	
19		20		Lighting Contactor (BAL)	<	<	< <	1920							
									>	20				Space	
				Connected VA per Leg	=	19200		17280							
				Total Amps per Leg =		160		144							

		enc
		enc
		bre
		shc
SCHEMATIC	LEGEND	

listed as

enclosure

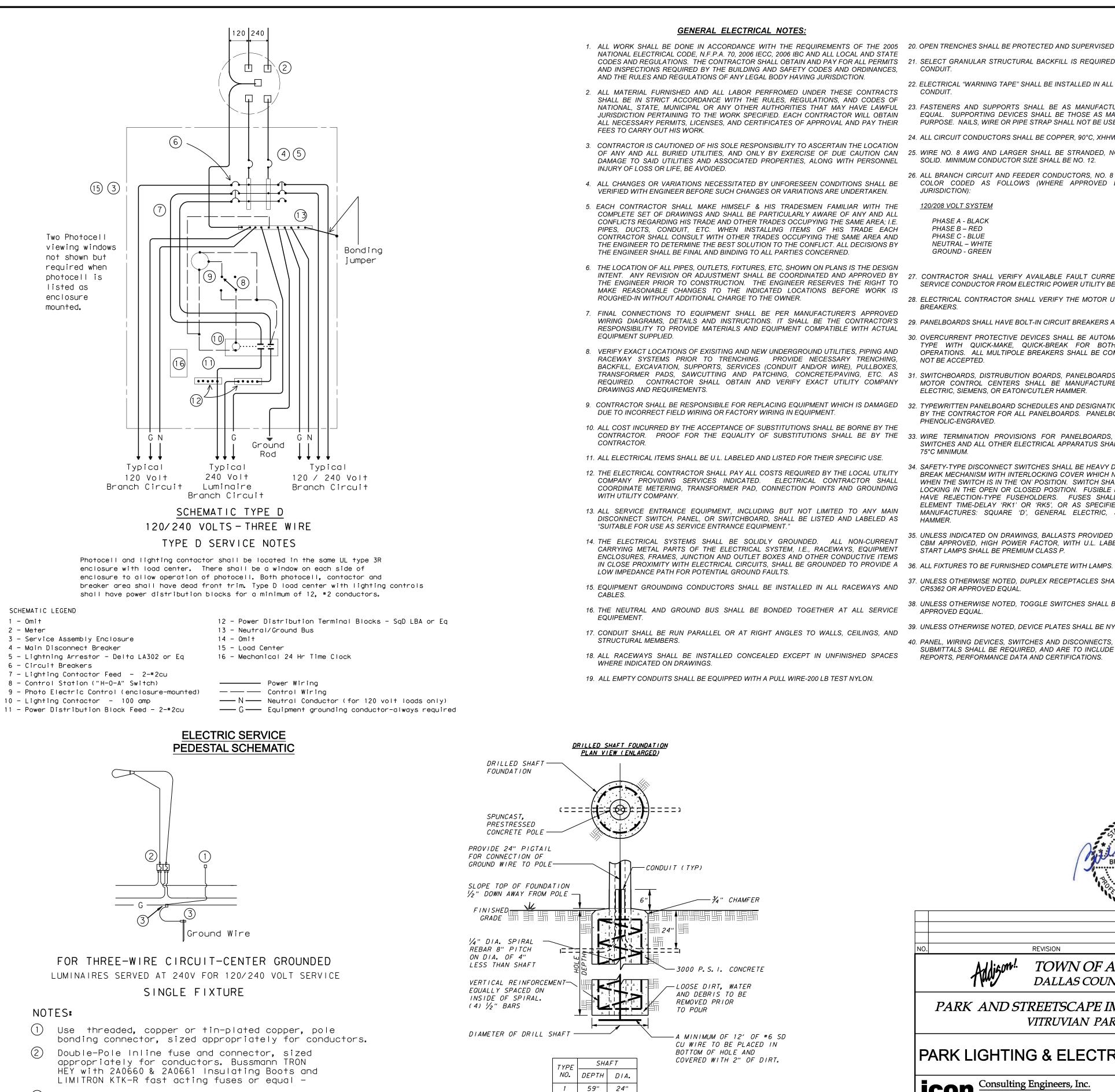
mounted,

- 1 Omit 2 – Meter
- 3 Service Assembly Enclosure 4 – Main Disconnect Breaker
- 6 Circuit Breakers
- 8 Control Station ("H-O-A" Switch)
- 10 Lighting Contactor 100 amp

VPWP - LIGHTING CONTACTOR TO SERVE PONTE AVENUE BRIDGE ACCENT LIGHTING. NO DISTRIBUTION BLOCKS REQUIRED.

## NOTES

(1)(2) (3)



Split Bolt or other connector.

**ELECTRICAL CONNECTION DETAIL** 

## **DRILLED SHAFT FOUNDATION** EMBEDDED POLE

24"

2 59" 30"

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2005 20. OPEN TRENCHES SHALL BE PROTECTED AND SUPERVISED AT ALL TIMES.
- CODES AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS 21. SELECT GRANULAR STRUCTURAL BACKFILL IS REQUIRED AROUND, AND 12" ABOVE, ALL CONDUIT.
  - 22. ELECTRICAL "WARNING TAPE" SHALL BE INSTALLED IN ALL TRENCHES 12" ABOVE HIGHEST CONDUIT.
- NATIONAL STATE MUNICIPAL OR ANY OTHER AUTHORITIES THAT MAY HAVE LAWFUL 23. FASTENERS AND SUPPORTS SHALL BE AS MANUFACTURED BY GEDNEY, EFCOR OR EQUAL. SUPPORTING DEVICES SHALL BE THOSE AS MANUFACTURED FOR A SPECIFIC PURPOSE. NAILS, WIRE OR PIPE STRAP SHALL NOT BE USED.
  - 24. ALL CIRCUIT CONDUCTORS SHALL BE COPPER, 90°C, XHHW-2 INSULATION.
- OF ANY AND ALL BURIED UTILITIES, AND ONLY BY EXERCISE OF DUE CAUTION CAN 25. WIRE NO. 8 AWG AND LARGER SHALL BE STRANDED, NO. 10 AND SMALLER SHALL BE SOLID. MINIMUM CONDUCTOR SIZE SHALL BE NO. 12.
  - 26. ALL BRANCH CIRCUIT AND FEEDER CONDUCTORS, NO. 8 AWG AND SMALLER, SHALL BE COLOR CODED AS FOLLOWS (WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION):

<u>120/208 VOLT SYSTEM</u> PHASE A - BLACK PHASE B – RED PHASE C - BLUE NEUTRAL – WHITE GROUND - GREEN

- 27. CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT, TRANSFORMER SIZE, AND SERVICE CONDUCTOR FROM ELECTRIC POWER UTILITY BEFORE ORDERING BREAKERS.
- 28. ELECTRICAL CONTRACTOR SHALL VERIFY THE MOTOR UNIT LOADS BEFORE ORDERING BREAKERS.
- 29. PANELBOARDS SHALL HAVE BOLT-IN CIRCUIT BREAKERS AND ALUMINUM BUSSING.
- 30. OVERCURRENT PROTECTIVE DEVICES SHALL BE AUTOMATIC TRIP THERMAL MAGNETIC TYPE WITH QUICK-MAKE. QUICK-BREAK FOR BOTH MANUAL AND AUTOMATIC OPERATIONS. ALL MULTIPOLE BREAKERS SHALL BE COMMON TRIP; HANDLE TIES WILL NOT BE ACCEPTED.
- TRANSFORMER PADS, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC. AS 31. SWITCHBOARDS, DISTRUBUTION BOARDS, PANELBOARDS, DISCONNECT SWITCHES AND MOTOR CONTROL CENTERS SHALL BE MANUFACTURED BY SQUARE 'D', GENERAL ELECTRIC, SIEMENS, OR EATON/CUTLER HAMMER.
  - 32. TYPEWRITTEN PANELBOARD SCHEDULES AND DESIGNATION PLATES SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL PANELBOARDS. PANELBOARD DESIGNATIONS SHALL BE PHENOLIC-ENGRAVED.
- CONTRACTOR. PROOF FOR THE EQUALITY OF SUBSTITUTIONS SHALL BE BY THE 33. WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75°C MINIMUM
  - 34. SAFETY-TYPE DISCONNECT SWITCHES SHALL BE HEAVY DUTY WITH QUICK-MAKE, QUICK-BREAK MECHANISM WITH INTERLOCKING COVER WHICH NORMALLY CANNOT BE OPENED WHEN THE SWITCH IS IN THE 'ON' POSITION. SWITCH SHALL HAVE PROVISIONS FOR PAD-LOCKING IN THE OPEN OR CLOSED POSITION. FUSIBLE DISCONNECT SWITCHES SHALL HAVE REJECTION-TYPE FUSEHOLDERS. FUSES SHALL BE NON-RENEWABLE, DUAL ELEMENT TIME-DELAY 'RK1' OR 'RK5', OR AS SPECIFIED OTHERWISE. ACCEPTABLE MANUFACTURES: SQUARE 'D', GENERAL ELECTRIC, SIEMENS, OR EATON/CUTLER HAMMER
  - 35. UNLESS INDICATED ON DRAWINGS, BALLASTS PROVIDED WITH FIXTURES SHALL BE ETL-CBM APPROVED, HIGH POWER FACTOR, WITH U.L. LABEL. ALL BALLASTS FOR RAPID START LAMPS SHALL BE PREMIUM CLASS P.

  - 37. UNLESS OTHERWISE NOTED, DUPLEX RECEPTACLES SHALL BE RATED 20 AMP, HUBBELL CR5362 OR APPROVED EQUAL.
  - 38. UNLESS OTHERWISE NOTED. TOGGLE SWITCHES SHALL BE 20 AMP. HUBBELL CS1221 OR APPROVED EQUAL
  - 39. UNLESS OTHERWISE NOTED, DEVICE PLATES SHALL BE NYLON.
  - 40. PANEL, WIRING DEVICES, SWITCHES AND DISCONNECTS, LIGHTING FIXTURES AND FUSE SUBMITTALS SHALL BE REQUIRED, AND ARE TO INCLUDE MANUFACTURER'S DATA, TEST REPORTS, PERFORMANCE DATA AND CERTIFICATIONS.

	BRUCE F. DUNNE 62654 BRUCE F. DUNNE 62654 SSIONAL ENG										
NO.			REVISI	<u></u>		BY	DATE				
	PARK AND STREETSCAPE IMPROVEMENTS										
P	VITRUVIAN PARK PARK LIGHTING & ELECTRICAL DETAILS										
	Consulting Engineers, Inc. Civil Engineers - Designers - Planners250 W. Southlake Blvd., Suite 117 Southlake, Tx 76092 (817) 552-6210										
	ROJECT	DESIGN	DRAWN	DATE	FILE	S	НЕЕТ				
5	029-01	ICE	ICE	APR 26, 2010	PW# 2009-04	С	804				

RECORD DRAWINGS 06/18/12