

**DURAND-HOLLIS RUP
ARCHITECTS, INC.**

**14603 HUEBNER RD.
BUILDING 18
SAN ANTONIO,
TEXAS 78230**

**TEL. 210 308-0088
FAX. 210 697-3300**

REVISED ISSUE DATES

8/12/2014	1
	2
	3
	4

POTRANCO SHELL BUILDING
8815 POTRANCO RD.
SAN ANTONIO, TX, 78251

COVER

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PROJECT NO. 14-02
ISSUE DATE: 07.07.1
DRAWN BY: C
REVIEWED BY: R
PROJECT ARCHITECT:
GABRIEL DURAND-HOLLIS, F
TEXAS LICENSE NO. 1096

COVER

GENERAL NOTES

- [illegible]

SYMBOLS

KEY	DESCRIPTION
SHEET NUMBER, LAYER, NUMBER a-b/c	DETAIL KEY
ROOM C-101	ROOM NAME AND NUMBER
1234	DOOR SCHEDULE NUMBER
5	WINDOW KEY
DEM	DEMOLITION KEYNOTE
55	NEW WORK AND KEY NOTES
ELEVATION KEY	ELEVATION KEY
SECTION KEY	SECTION KEY
DETAIL KEY	DETAIL KEY
PARTITION KEY	PARTITION KEY
TRUE NORTH ARROW	TRUE NORTH ARROW
PLAN NORTH ARROW	PLAN NORTH ARROW
FRISON KEY	FRISON KEY

CODE INFORMATION

SQUARE FOOTAGE (net area)	SQUARE FEET
LEASE SPACE	7,020 SQ. FT.
MECHANICAL ROOM	81 SQ. FT.
TOTAL	7,101 SQ. FT.
SQUARE FOOTAGE (gross area/footprint)	SQUARE FEET
TOTAL	7,286 SQ. FT.

CODES	OCCUPANCY CLASSIFICATION
2012 INTERNATIONAL BUILDING CODE	B-BUSINESS
	CONSTRUCTION TYPE
2012 INTERNATIONAL FIRE CODE	V-B
	OCCUPANT LOAD (IBC)
2009 INTERNATIONAL ENERGY CONSERVATION CODE	
2012 UNIFORM PLUMBING CODE	PARKING COUNT
	REGULAR SPACES
	ACCESSIBLE SPACES
2012 INTERNATIONAL MECHANICAL CODE	TOTAL SPACES
	47
	42
	49
2011 NATIONAL ELECTRICAL CODE	

PROJECT LOCATION

PROJECT TEAM

ARCHITECT
DURAND-HOLLIS RUPE ARCHITECTS, INC.

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ROBERT MORITZ
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MECH., ELEC., AND PLUMB. ENGINEER
MURRAY & ASSOCIATES

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LANDSCAPE ARCHITECT
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JOHN ROBERTSON
robertson@horizondesign-sa.com

DRAWING LIST

GENERAL INFORMATION								
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COVER PROJECT INFORMATION, CODE ANALYSIS, LOCATION MAP

CIV

- | | |
|------|---|
| C701 | GENERAL NOTES |
| C200 | EXISTING CONDITIONS |
| C201 | DEMOLITION PLAN |
| C260 | CHWS, SITE PLAN |
| C301 | SITE DIMENSION PLAN |
| C400 | SITE GRADING PLAN |
| C500 | UTILITY CONNECTION AND FIRE PROTECTION PLAN |
| C600 | PAVING PLAN |
| C700 | SWPPP |
| C701 | SWPPP DETAILS |
| C800 | SITE DETAILS (1 OF 2) |
| C801 | SITE DETAILS (1 OF 2) |

ARCHITECTURAL

- | | |
|-------|-------------------------------------|
| SP100 | SITE PLAN |
| A100 | FLOOR PLAN & REFLECTED CEILING PLAN |
| A190 | ROOF PLAN |
| A200 | ELEVATIONS |
| A300 | BUILDING SECTIONS |
| A400 | WALL SECTIONS |
| A401 | WALL SECTIONS |
| A600 | DOOR & WINDOW TYPES |
| A700 | DETAILS |

STRUCTURAL

- | | |
|------|--|
| S100 | TYPICAL ABBREVIATION, SYMBOLS AND PLAN NOTES |
| S101 | GENERAL NOTES |
| S102 | GENERAL NOTES |
| S200 | FOUNDATION PLAN |
| S201 | ROOF FRAMING PLAN |
| S301 | TYPICAL SLAB-ON-GRADE DETAILS |
| S302 | TYPICAL CONCRETE SECTIONS AND DETAILS |
| S400 | LIGHT WOOD FRAMING NOTES AND SCHEDULES |
| S401 | TYPICAL STEEL DETAILS |
| S402 | SIMPLE BEAM CONNECTION DETAILS |
| S410 | ROOF SECTION DETAILS |

MEP
PLUMBING

- | | |
|------|------------------|
| P000 | PLUMBING SYMBOLS |
| P101 | PLUMBING PLAN |
| P201 | PLUMBING DETAILS |
- ELECTRICAL**
- | | |
|------|--------------------|
| E000 | ELECTRICAL SYMBOLS |
| E101 | ELECTRICAL PLAN |
| E201 | ELECTRICAL DETAILS |

E000	E
E001	E
E101	E
E201	E

- E401 ELECTRICAL ONE LINE DIAGRAMS
E501 ELECTRICAL DETAILS
E701 ELECTRICAL SPECIFICATIONS
- LANDSCAPE ARCHITECTURE**

L1.0 LANDSCAPE PLAN
L2.0 LANDSCAPE SPECIFICATIONS

- | | |
|-------|---------------------------|
| U 1.0 | IRRIGATION NOTES AND PLAN |
| U 2.1 | IRRIGATION DETAILS |
| U 2.2 | IRRIGATION DETAILS |

(NOT ALL OF THE SYMBOLS SHOWN MAY BE USED ON THE PROJECT.)

NO SYSTEM INSTALLER SHALL PROVIDE ALL STRUCTURAL

-

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REVISED ISSUE DATES:

_____	1
_____	2
_____	3
_____	4

LDING

WILL BUI
NCO RD.
TX, 78251

CO SHE
15 POTRA
ANTONIO,

TRANC 88 SAN

PO

PLUMBING
SYMBOLS

丁球件

STATE OF TEXAS

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WA PROJECT NO. 1401504
ISSUE DATE: 07.28.14
DRAWN BY: RLJ
REVIEWED BY: JMD

PROJECT ENGINEER:
P000



ELECTRICAL SYMBOLS LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
GENERAL			
	WORK, HP OR RA AS INDICATED		SIMPLEX RECEPTACLE
	DISCONNECT SWITCH, SIZE AS REQUIRED		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	MOMENTARY MOTOR STARTER		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	COMBINATION MOTOR STARTER		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	NORMAL FREQUENCY DEVICE WITH LINE DISCONNECT		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	CONTROL		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	VOICE CALL SWITCH FOR FIRE ALARM SYSTEM		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	JUNCTION BOX, CEILING MOUNTED, WITH COVER FOR DIRECT CONNECTION		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	JUNCTION BOX, WALL MOUNTED, WITH COVER FOR DIRECT CONNECTION		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	PUSH BUTTON		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	FIRE ALARM CONTROL UNIT OR INTERCOMMUNICATION SYSTEM		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	SPEAKER WALL MOUNTED, OR INTERCOMMUNICATION SYSTEM		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	TIME CLOCK		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	CEILING MOUNTED CLOCK		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	TRANSFORMER AS INDICATED		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	AUTOMATIC TRANSFER SWITCH		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	ACCESS CONTROL KEY PAD		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	EQUIPMENT CONNECTION		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	EGRESS ALARM BUTTON		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	ALARM FREQUENCY ZONE		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	MANUAL PULL RELAY		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	METER SWITCH - PHASE ADJUST		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	VOLTMETER SWITCH - PHASE ADJUST (VOLTAGE)		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	WAIT TIME RELAY		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	TIMER		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	CIRCUIT BREAKER		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	CONTROL TRANSFORMER		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	PHASE SIZE AS NOTED		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	REFERENCE LINE, TO KEYED ELECTRICAL NOTE (NLP 7.0.3)		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
LIGHTINGS			
	NONEMERGENCY OR NO FAULT, CEILING MOUNTED, NORMAL INCANDESCENT OUTPUT		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	NONEMERGENCY OR NO FAULT, WALL MOUNTED, NORMAL INCANDESCENT OUTPUT		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	NONEMERGENCY OR NO FAULT, WALL HIGH OUTPUT, CEILING MOUNTED, CLEAR SIZE INDICATED		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	EMERGENCY LIGHTING, CEILING OR WALL MOUNTED, EMERGENCY OUTPUT ASSOCIATED		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	DAYLIGHT, CEILING MOUNTED WITH WINDOW AS INDICATED ON DRAWINGS		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	EXIT LIGHT, WALL MOUNTED WITH WINDOW AS INDICATED ON DRAWINGS		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	FIXTURE CONNECTED TO LINE SWITCH BRANCH		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	FIXTURE CONNECTED TO LINE SWITCH BRANCH		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	FIXTURE CONNECTED TO LINE SWITCH BRANCH		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
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	FIXTURE CONNECTED TO LINE SWITCH BRANCH		DOUBLE DUPLEX 15A/20A UNLESS OTHERWISE NOTED
	FIXTURE CONNECTED TO LINE SWITCH BRANCH		DOUBLE DUPLEX 15A/20A

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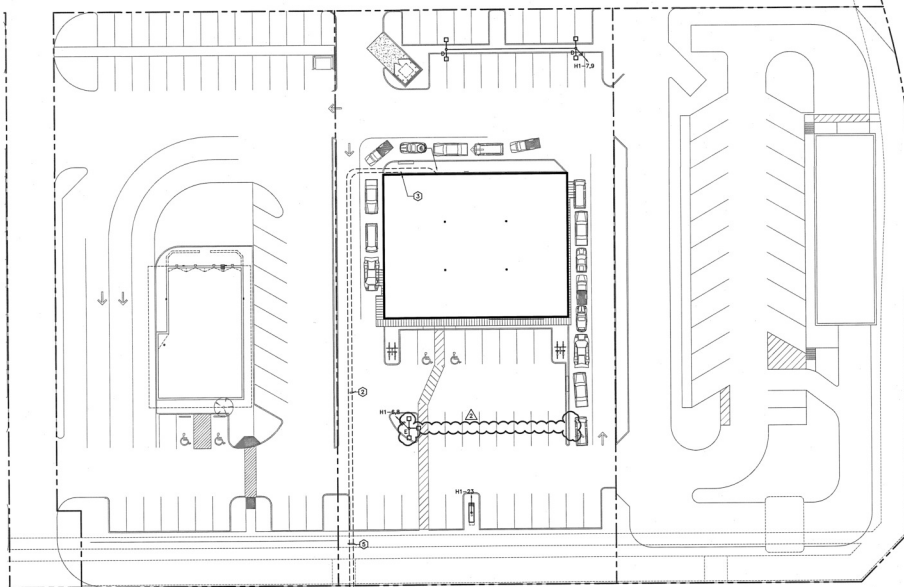
POTRANCO SHELL BUILDING
8815 POTRANCO RD.
SAN ANTONIO, TX, 78251

2047-7-28

EDUARDO V. ZAVALA
110861
LICENSED
PROFESSIONAL ENGINEER

Wm. [Signature]

E000



NOTES:
 1 SITE ELECTRICAL PLAN
 SCALE: 1"=50'

KEYED ELECTRICAL NOTES (2)

1. CONTRACTOR SHALL COORDINATE WITH THE CITY OF SAN ANTONIO FOR THE INSTALLATION OF NEW POLE MOUNTED TRANSFORMERS. REFER TO ELECTRICAL RISE DRAWING EAST FOR ADDITIONAL INFORMATION.
2. NEW CONCRETE ENCASED SECONDARY FEEDER FROM RISE TO MAIN SERVICE DISCONNECT. REFER TO ELECTRICAL RISE DRAWING EAST FOR ADDITIONAL INFORMATION.
3. LOCATION OF NEW WALL MOUNTED ELECTRICAL SERVICE EQUIPMENT. REFER TO EAST AND EAST1 FOR ADDITIONAL INFORMATION.
4. CONTRACTOR SHALL COORDINATE WITH PHONE AND CABLE TELEVISION PROVIDERS FOR INSTALLATION OF NEW RISE PILES FOR SERVICE OF PHONE, CABLE AND CABLE TELEVISION SERVICES. REFER TO ELECTRICAL RISE DRAWING EAST FOR ADDITIONAL INFORMATION.
5. CONTRACTOR SHALL ROUTE NEW UNDERGROUND CONDUITS FOR DELIVERY OF PHONE, CABLE AND CABLE TELEVISION SERVICES TO PHONE AND CABLE TELEVISION PROVIDERS. REFER TO EAST1 FOR QUANTITY OF REQUIRED CONDUITS.
6. APPROXIMATE LOCATION OF NEW WALL MOUNTED PHONE AND CABLE TELEVISION CABLES. REFER TO EAST AND EAST1 FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL ROUTE EXTERIOR LIGHTING BRANCH CIRCUIT THROUGH EXTERIOR LIGHTING CONDUIT. EXTERIOR LIGHTING SHALL HAVE PROTECTIVE RIGID POLYCARBONATE FILING. NOTE: TIME CLOCK "OFF" CONTROL. NOTE: POLE LIGHT FIXTURE ARE 50W, 1A.

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REVISED ISSUE DATES:
 08-12-2014
 11-20-2014

POTRANCO SHELL BUILDING
 8815 POTRANCO RD.
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SITE
 ELEC. PLAN



1401504
 07-28-14
 RUG
 EXC
 110441
 2014

REVISION #3

MURRAY & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 75 September 16, 2013
 10000 Potranco Rd., Suite 800
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MA PROJECT NO. 1401504
 ISSUE DATE: 07-28-14
 DRAWN BY: RUG
 PROVIDED BY: EXC
 PROJECT ENGINEER:
 EDUARDO X. DIAZ
 TEXAS REG. NO. 110441

E001



LIGHT FIXTURE SCHEDULE									
TYPE	MANUFACTURER	CATALOG #	VOLTAGE	MOUNTING	LUMENS		BROW	DESCRIPTION	NOTES
					LMF	LMF			
A	LITHONIA	W80-2000T-MD-LD-LP	120	WALL	2	2000 TYP. 4000K	32	WALL MOUNTED DOWNLIGHT, COORDINATE MOUNTING HEIGHT WITH ARCHITECT.	
AL	LITHONIA	W80-2000T-MD-LD-LP-PR	120	WALL	2	2000 TYP. 4000K	32	WALL MOUNTED DOWNLIGHT, COORDINATE MOUNTING HEIGHT WITH ARCHITECT. SAME AS "A", PROVIDE AN EMERGENCY BATTERY BACK-UP.	
B	LITHONIA	C-210-LD-LD-LP-PR	120	CHNL	2	2000 TYP. 4000K	32	4" x 4" TYP. LIGHT W/ 30" CHAN. AND WIRE GUARD. BUSHING 3/4" x 1/2" x 1/2" x 1/2"	
C	LANCIS LIGHTING	2000-2000-CL	120	SURFACE	2	2000 TYP.	32	RECESSED CANOPY LIGHT	
D	SECURITY LIGHTING SYSTEMS	SSA-ACL-2000-PR-3-MET	208	POLE	2	2000 TYP.	32	PROVIDE WITH THE FOLLOWING SECURITY LIGHTING SYSTEMS: 1. 2000 TYP. 4000K-3-MET	
E	SECURITY LIGHTING SYSTEMS	SSA-ACL-2000-PR-3-MET	208	POLE	2	2000 TYP.	32	PROVIDE WITH THE FOLLOWING SECURITY LIGHTING SYSTEMS: 1. 2000 TYP. 4000K-3-MET	

GENERAL ELECTRICAL NOTES

- WORK LOCATING SYSTEMS MUST TO BE LOCATED IN ROOMS OFF 200V JUNGLE TO LOCATE OF RISERS, WITH NO BULB (WIRE) AND TUBING, FROM SET AND WORK TO BE DONE BY CONTRACTOR WITH LOCATION IN ROOM WITH ADDRESS AND OTHER SIGNED (THERMOSTAT, FIRE ALARM, AND CALL NOTING).
- FIXTURES WITH "E" RATED SHALL HAVE INTERNAL EMERGENCY BATTERY BACK-UP.
- PREPARE ALL CONDUIT PENETRATIONS IN RATED WALLS SEE ARCHITECTURAL FOR WALL FINISHES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINISHES TO SHEET ROCK AND REPAIR PROVIDE THE RATED BARRIER IN ALL FLOOR PENETRATIONS.
- PROVIDE AN EXTRA UNMOUNTED NOT LEE FOR OVER LIGHTS AND EMERGENCY LIGHTS, PROVIDE AN EXTRA UNMOUNTED NOT LEE FROM THE USE OF THE CONTRACTOR TO EACH DET AND EMERGENCY LIGHT AS INDICATED IN DRAWINGS. DO NOT INSTALL A LAMPED LAMP IF THE CONTRACTOR NOT USE TO EMERGENCY LIGHTS AND BALLASTS AS THIS WILL NOT ALLOW FOR PROPER OPERATION OF THE EMERGENCY LIGHT FIXTURE.

KEYED ELECTRICAL NOTES (0)

- CONTRACTOR SHALL ROUTE EXTERIOR LIGHTING CONDUIT THROUGH EXTERIOR LIGHTING CONDUIT, EXTERIOR LIGHTING SHALL BE PHOTOCELL, ROOF MOUNTED, NORTH FACING "ON", TIME CLOCK "OFF" CONTROL.



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11-13-2014
11-20-2014

POTRANCO SHELL BUILDING
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ELECTRICAL LIGHTING PLAN



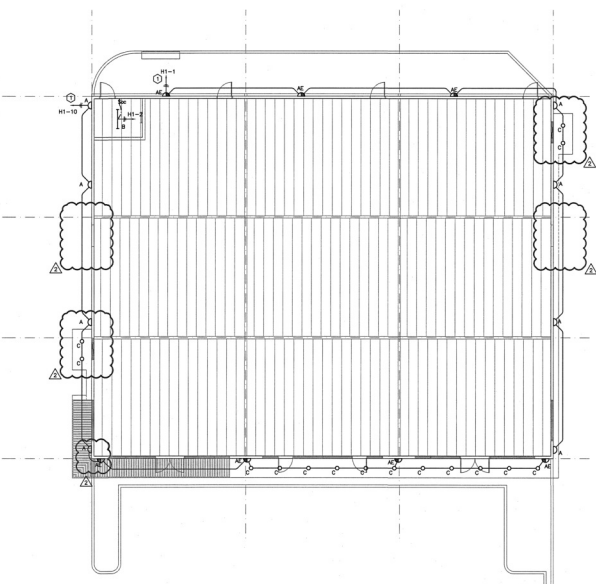
DAVID V. DANN
PROJECT ENGINEER
NO. 11441
© 2014



REVISION #3

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WA PROJECT NO. 1401504
ISSUE DATE: 07.28.14
DRAWN BY: RVG
REVIEWED BY: EVZ
PROJECT ENGINEER:
DAVID V. DANN
TEXAS REG. NO. 110441
E101



**FIRST FLOOR
ELECTRICAL LIGHTING PLAN**

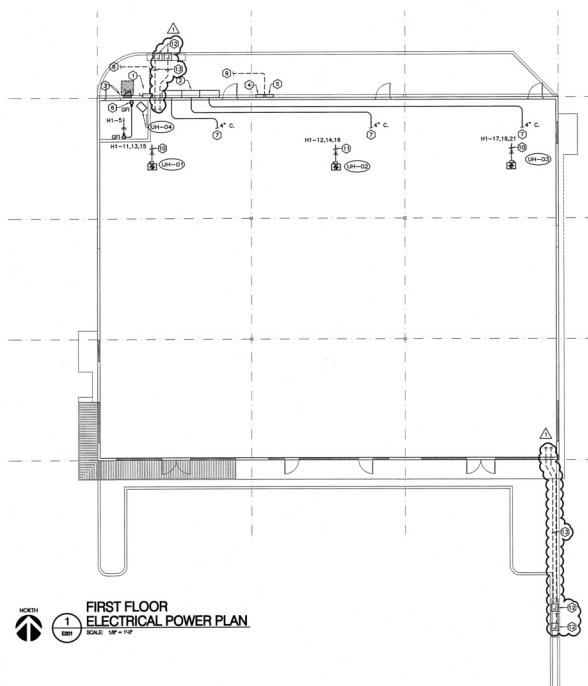
SCALE: 1/8" = 1'-0"

GENERAL ELECTRICAL NOTES

- A. WHEN LOCATING SYSTEMS NEXT TO DOORS, LOCATE & HIDE OFF DOOR JAMB TO CENTER OF DEVICE. WHEN MULTIPLE DEVICES ARE TOGETHER, SPACE BUT NO MORE THAN 12 INCHES APART.
- B. FIRESTOP ALL CONDUIT PENETRATIONS IN RATED WALLS SEE ARCHITECTURAL FOR RAIL REPAIRS. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO SHEET ROCK AND REPAIR.
- C. PROVIDE FIRE RATED SLEEVES IN ALL FLOOR PENETRATIONS.

KEYED ELECTRICAL NOTES (1)

1. ELECTRICAL SERVICE MAIN DISCONNECT, REFER TO SHEET E401 FOR ADDITIONAL INFORMATION.
2. ELECTRICAL SERVICE BUS, REFER TO SHEET E401 FOR ADDITIONAL INFORMATION.
3. HOUSE PANEL "H1", REFER TO SHEET E401 FOR ADDITIONAL INFORMATION.
4. TELEPHONE SERVICE CABINET, REFER TO SHEET E401 FOR ADDITIONAL INFORMATION.
5. CABLE TV SERVICE CABINET, REFER TO SHEET E401 FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE & PROVIDE SET MAIN 5-JOB SUPPLY RECEPTACLE TO SERVE ELECTRIC UNIT HEATER LOCATED RECEPTACLE LOCATED TO UNIT HEATER EACH LOCATOR.
7. CONTRACTOR SHALL PROVIDE AN EXTENSION OF THE CONDUIT FOR EACH TOWARD ELECTRICAL SERVICE AS SHOWN. PROVIDE EACH TOWARD WITH A FULL STRING AND BUSBARS CONDUIT TO BE ROUTED JUST BELOW STRUCTURE CONDUIT SEE AS SHOWN.
8. MAIN SERVICE DISCONNECT SHALL BE SERVED FROM NEW POWER MOUNTED TRANSFORMER, REFER TO ELECTRICAL SITE PLAN E001 FOR CONTINUATION.
9. TELEPHONE/CABLE TELEVISION CABINETS SHALL BE SERVED FROM NEW POWER WIRE POLE, REFER TO ELECTRICAL SITE PLAN E001 FOR CONTINUATION.
10. CONTRACTOR SHALL PROVIDE 60A/30/15/10/5 ELECTRICAL DISCONNECT TO SERVE UNIT HEATER, PROVIDE (2) 60A/30/15/10/5 IN A 1/2" CONDUIT, MOUNT DISCONNECT ADJACENT TO MAIN UNIT DISCONNECT TO BE MOUNTED ON UNITS/ST SUPPORTED FROM STRUCTURE.
11. CONTRACTOR SHALL PROVIDE 60A/30/15/10/5 ELECTRICAL DISCONNECT TO SERVE UNIT HEATER, PROVIDE (2) 60A/30/15/10/5 IN A 1/2" CONDUIT, MOUNT DISCONNECT ADJACENT TO MAIN UNIT DISCONNECT TO BE MOUNTED ON UNITS/ST SUPPORTED FROM STRUCTURE.
12. CONTRACTOR SHALL PROVIDE 60A/30/15/10/5 ELECTRICAL DISCONNECT TO SERVE UNIT HEATER, PROVIDE (2) 60A/30/15/10/5 IN A 1/2" CONDUIT, MOUNT DISCONNECT ADJACENT TO MAIN UNIT DISCONNECT TO BE MOUNTED ON UNITS/ST SUPPORTED FROM STRUCTURE.



**FIRST FLOOR
ELECTRICAL POWER PLAN**
DATE: 10-1-14

SCALE: 1/8" = 1'-0"



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POTRANCO SHELL BUILDING
8815 POTRANCO RD.
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ELECTRICAL POWER PLAN



PROJECT NO. 1401504
ISSUE DATE: 07-24-14
DRAWN BY: RVG
REVIEWED BY: RVZ
PROJECT ENGINEER:
CARLOS V. DANA
TEXAS REG. NO. 110441

E201

REVISION #3

MURRAY ASSOCIATES, INC.
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Lighting Case Panelboard H1										30,000 AC Rating	
100% of Service Demand										4000V	
1 - demand										A New	
1 - service factor										A New	
Line	Load Name	Quantity	W	M	D	W	M	D	Panel Type	Panel Qty	Branches / Subpanels
1	1000	1	0	0	0	0	0	0	1000	1	1
2	100	1	0	0	0	0	0	0	100	1	1
3	100	1	0	0	0	0	0	0	100	1	1
4	100	1	0	0	0	0	0	0	100	1	1
5	100	1	0	0	0	0	0	0	100	1	1
6	100	1	0	0	0	0	0	0	100	1	1
7	100	1	0	0	0	0	0	0	100	1	1
8	100	1	0	0	0	0	0	0	100	1	1
9	100	1	0	0	0	0	0	0	100	1	1
10	100	1	0	0	0	0	0	0	100	1	1
11	100	1	0	0	0	0	0	0	100	1	1
12	100	1	0	0	0	0	0	0	100	1	1
13	100	1	0	0	0	0	0	0	100	1	1
14	100	1	0	0	0	0	0	0	100	1	1
15	100	1	0	0	0	0	0	0	100	1	1
16	100	1	0	0	0	0	0	0	100	1	1
17	100	1	0	0	0	0	0	0	100	1	1
18	100	1	0	0	0	0	0	0	100	1	1
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98	100	1	0	0	0	0	0	0	100	1	1
99	100	1	0	0	0	0	0	0	100	1	1
100	100	1	0	0	0	0	0	0	100	1	1
Total Connected Load			40,000 W	113.4 A	223.1 VA						
Total Demand Load			40,000 W	113.4 A	223.1 VA						

NOTED ELECTRICAL NOTES (17)

1. NEW UNDERGROUND SECONDARY FEEDER ENCASED IN CONDUIT TO BE INSTALLED IN CONFORMANCE WITH THE FOLLOWING:
2. CONTRACTOR SHALL PROVIDE AN ELECTRICAL METER FOR HOUSE PANEL PER CSP SPECIFICATIONS.
3. PROVIDE 2" CONDUIT TO ADJACENT CT ENCLOSURE.
4. CONTRACTOR SHALL PROVIDE SUFFICIENT WALL SPACE ABOVE OUTLET TO ACCOMMODATE FUTURE TENANT.
5. PROVIDE 2" CONDUIT TO ADJACENT METER AND DISCONNECT SWITCH (400/3/400F/NR).
6. CONTRACTOR SHALL PROVIDE A 200/3/200F/NR ELECTRICAL DISCONNECT.
7. CONTRACTOR SHALL PROVIDE A SERVICE GROUNDING SYSTEM TO MEET NEC 250 REQUIREMENTS. REFER TO 7/5/01.
8. CONTRACTOR SHALL PROVIDE A NEW CSP APPROVED BONDAMP BUSSED GROUND IN NEMA 3R ENCLOSURE. 1" MIN. LENGTH. GROUND PER NEC 250 REQUIREMENTS.
9. CONTRACTOR SHALL PROVIDE SUFFICIENT WALL SPACE

GENERAL NOTES: (THIS SHEET ONLY)

WIRE AND CONDUIT SIZES SHALL BE CONTINUOUS ON THE ENTIRE PROJECT. ALL CONDUITS SHALL BE RIGID UNLESS OTHERWISE NOTED OTHERWISE, ELSE UNLESS NOTED OTHERWISE.

B. ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW 208Y/120V, 3- ϕ ELECTRICAL SERVICE WITH LOCAL UTILITY COMPANY.

C. EQUIPMENT SHALL BE PROVIDED BY THE USER/UTILITY COMPANY; POSSIBLE (2) OPTIONS ARE SOCKET-TYPE METER OR DISCONNECT WITH 1/2" METER. DESIGN INDICATED IS FOR SOCKET-TYPE METER.

D. MANUFACTURER OF ELECTRICAL GEAR SHALL PROVIDE A COORDINATION STUDY FOR THE ENTIRE ELECTRICAL SYSTEM. THE STUDY SHALL BE PROVIDED TO THE MANUFACTURER. THE MANUFACTURER SHALL ALSO PROVIDE A FAULT CURRENT STUDY FOR THE ENTIRE SYSTEM. THE STUDY SHALL BE PROVIDED TO THE MANUFACTURER. THE STUDY SHALL BE PROVIDED TO THE MANUFACTURER. INTERRUPTING RATINGS OF ALL CIRCUIT BREAKERS, DISTRIBUTION PANELEBARS, PANELEBARS, ETC. SHALL BE PROVIDED TO THE MANUFACTURER. A FAULT RATED SYSTEM SHALL BE PROVIDED TO THE MANUFACTURER.

E. ALL CONDUCTORS AND BUSBARS SHALL BE OF COPPER.

Notes:

1. Wet location (underground or outdoors) use THHW. Otherwise THHH.
2. Conduit Types: underground - schedule 40 PVC; indoors - EMT; outdoor exposed - RCPSP - riser pipes (follow Utility guidelines or minimum schedule 80).
3. Provide transitions to conduit changes prior to different environment (ex. Transition from EMT to IMC prior to penetrating walls to the exterior).
4. Motor Connections shall be flexible metallic conduit.
5. All conduit penetrations in rated walls shall be firestopped.
6. See drawings for any special requirements.

21. NEC 250 SIZED GROUND BOND TO MAIN DISCONNECT NEUTRAL AND BUSSED GUTTER.

22. CONTRACTOR SHALL PROVIDE A PRE-DRILLED 12" SOLID COPPER BUSS IN CABINET. PROVIDE CONNECTION TO SERVICE GROUND.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY OF SERVICE TO THE NEW BLDG. COORDINATE ALL REQUIREMENTS AND COSTS AND LABOR W/ LOCAL UTILITY. PRIOR TO BID, ALL COSTS ASSOCIATED W/ THE DELIVERY OF ELECTRICAL SERVICE SHALL BE INCLUDED AS A PART OF THIS CONTRACT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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Page 10 of 10

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SAN ANTONIO, TX. 78251

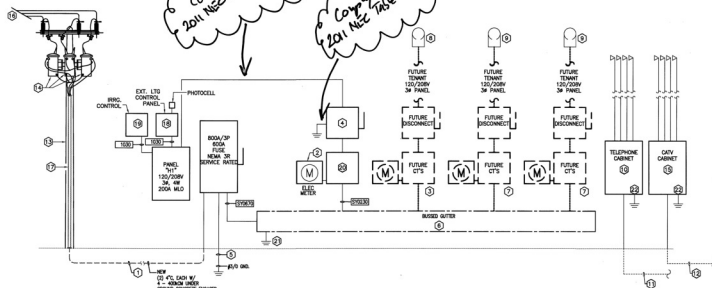
204-7-28

STATE OF TEXAS
EDUARDO V. ZAVALLA
110441
LICENSED
SUPERVISOR

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MA PROJECT NO. 14015
ISSUE DATE: 07.28
DRAWN BY: R
REVIEWED BY: E
PROJECT ENGINEER:

E401



1 ELECTRICAL ONE-LINE DIAGRAM



DIVISION 16 - ELECTRICAL SPECIFICATIONS

DIVISION 16 - ELECTRICAL

1. Work shall comply with the following codes and ordinances:
a. City of San Antonio, TX Amendments to the NEC.

- [illegible]

1. Description of Work: 1

2. Acceptable Manufacturers:
 - a. American Insulated Wire Corp.
 - b. Essex International, Inc.
 - c. General Cable.

3. **Sealant:**
 - a. The conductor for wire and cable shall be SEBS conductivity compound (per ASTM 36) and shall be tested or verified in accordance with established standards for the application of the sealant.
 - b. The sealant shall be applied to the conductors of the cable and shall be applied to the #10 AWG and larger shall be stranded. Insulate identified or specified wires, conductors, and cables.
4. **Wire and cable shall be permanently marked approximately every 2' to indicate size, voltage, and type.**
 - a. Wire and Cable shall meet:
 - i. Be rated 600 volt AC.
 - ii. Be insulated in approved neoprene or conduit.
 - iii. Be not less than #12 AWG, #10 AWG for Motors (check device to OCP).
 - b. #10 AWG and larger copper, all conductors shall have low voltage wiring.
5. **name type insulation as follows:**
 - a. Dry Location:
 - i. THHN or THWN, or THHN-THHN, or THWN
 - b. Damp or Location:
 - i. THHN-THHN, or THWN
 - c. Wet Location:
 - i. THHN-THHN, or THWN
 - d. Wet Location (limited duration):
 - i. THHN-THHN, or THWN
 - e. Interior wiring with type of cable or Electrical Non-metallic Tubing (EMT) with type of cable or conduit.
 - f. Service, and branch circuit wiring shall be installed using color coded conductors.

208/120V 5yr

Phase A	Black
Phase B	Red
Phase C	Blue
Neutral	White

- F**or Venturators #6 and smaller, cord coating shall be by factory applied cast-improved insulation. For Equipment Grounding:
Cable # Three-Way Return Orange Tracer
Orange Tracer Tractor
conductors #4 and larger, color coding shall be by plastic coated self-sticking markers, colored nylon cable ties, or heat shrink type sleeves.
- G**rounding conductors shall be made of all feeder conductors within each enclosure where a lap splice, or termination is made. Identification shall be by means of "UL" listed "Type PLM" as manufactured by Panduit Corporation, or as approved.
- H** Conductor Insulation:
- a. Conductors shall be carefully handled and insulated to ensure that maximum tensile and compression forces are not exceeded and that no conductor is damaged or weakened. If conductors are not "kinked" or the insulation degraded,
- b. They may be bent at angles less than 90 degrees if U.S. label "Index 7F," Index "B" Green or approved equal. The use of snap hooks, liquid detergents or vegetable oils is prohibited.

SECTION 16130 - BOXES

1. Description of Work: This section includes work required to provide boxes, including but not limited to outlet, floor, pull, junction, and cable tap boxes and supports associated therewith.

8. Appleton Electric.
9. Bowers Manufacturing Company.
10. Case.
11. Steel City.
12. Outlet Boxes and Cover.
13. Concentrated and exposed dry locations except where prohibited herein. One place also banned is 16 gauge zinc galvanized steel, in accordance with UL 514.
14. Gears and Waf. Location: Zinc die-cast aluminum with aluminum polymer enamel or malleable iron with zinc electroplate and lacquer. One place also banned is in accordance with UL 514 and UL 485.
15. Classified Hazardous Locations: Malleable iron with zinc electroplate and lacquer.
16. Polymer enamel, in accordance with UL 855.
17. Junction and Pull Boxes: UL 514A and UL505.
18. Wireways: UL 870.

- [illegible]

- [illegible]

[illegible]

1. Description of Work: The work covered in this section of the specifications includes fusible and circuit breaker load centers and accessories as covered by Article 384 of the National Electrical Code and as shown on the Drawings.

- | | | |
|---|----------------------|----------------------|
| 6. Cutler-Hammer, | General Electric Co. | Siemens |
| 7. Square D Company, | Siemens Electric, | |
| 3. The following schedule designates equivalent products: | | |
| Square D Co. | Cutler-Hammer | General Electric Co. |
| NGCC | POW-R-LINE 1 | SERIES A TYPE AQ |
| NEHD | POW-R-LINE 2 | SERIES A TYPE AE |
| NEHB | POW-R-LINE 3 | |
| QMB | POW-R-LINE 4B | |
| QMB | POW-R-LINE 4F | |

- [illegible]

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REVISED ISSUE DATES:

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ELECTRICAL
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MA PROJECT NO. 1401504
ISSUE DATE: 07.28.14
DRAWN BY: RVG
REVIEWED BY: SVL

E701

1731

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