

FILE NAME: C:\EGNYTE\SHARED\DOCUMENTS\PROJECTS\16019\_PETMEDS WAREHOUSE\16019\_PETMEDS WAREHOUSE\16019-DRW-500-200-00\_00.DWG  
 PLOT DATE: 6/15/2016 11:54 AM; SHT SIZE: ARCH D; PLOT SCALE: 1:1;

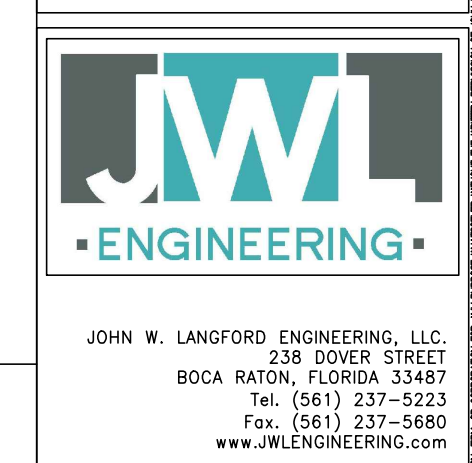
NO./REVISION	BY/CHK	DATE
00 INITIAL ISSUE	JL	06-15-16

PROJECT:  
**PETMEDS  
 BAILER BUILDING**  
 420 SOUTH  
 CONGRESS AVENUE  
 DELRAY BEACH, FL

ARCHITECT:  
**THE BENEDICT  
 BULLOCK GROUP, PA**  
 1525 NW 3RD STREET  
 SUITE #1  
 DEERFIELD BEACH, FL

GENERAL CONTRACTOR:  
**TBD**

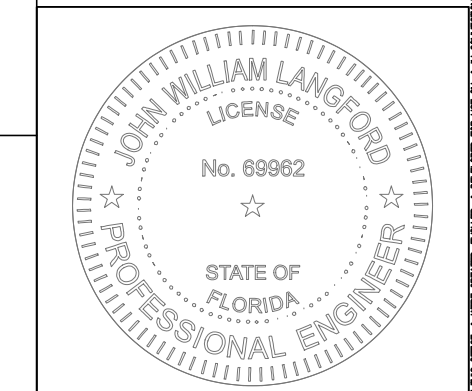
TO THE BEST OF THE ARCHITECTS KNOWLEDGE AND BELIEF, THE INFORMATION CONTAINED IN THESE PLANS AND SPECIFICATIONS CONFORMS WITH ALL APPLICABLE CODES, ORDINANCES, REGULATIONS, AND STANDARDS. THE ARCHITECTS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THESE PLANS AND SPECIFICATIONS. THE ARCHITECTS SHALL NOT BE RESPONSIBLE FOR ANY CONSTRUCTION DEFECTS OR OMISSIONS IN THE WORK PERFORMED BY THE CONTRACTOR. THE ARCHITECTS SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE WORK PERFORMED BY THE CONTRACTOR. THE ARCHITECTS SHALL NOT BE RESPONSIBLE FOR ANY INJURY TO PERSONS OR PROPERTY CAUSED BY THE WORK PERFORMED BY THE CONTRACTOR. THE ARCHITECTS SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE WORK PERFORMED BY THE CONTRACTOR. THE ARCHITECTS SHALL NOT BE RESPONSIBLE FOR ANY INJURY TO PERSONS OR PROPERTY CAUSED BY THE WORK PERFORMED BY THE CONTRACTOR.



ANY DESIGN CHANGES TO THE SYSTEM DESCRIBED IN THESE PLANS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD WILL VOID THESE PLANS. ALL EXPENSES INCURRED DUE TO THESE CHANGES WILL BE THE RESPONSIBILITY OF THE PARTY PERFORMING SUCH CHANGES.

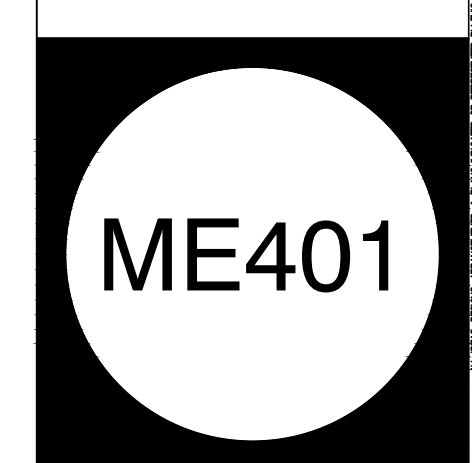
I HEREBY CERTIFY THAT THESE PLANS WERE MADE UNDER MY RESPONSIBLE CHARGE. THIS DOCUMENT IS ELECTRONICALLY SIGNED AND SEALED PURSUANT TO SECTION 471.025 OF THE FLORIDA STATUTES AND 61G15 OF THE FLORIDA ADMINISTRATIVE CODE.

JOHN LANGFORD, FL#69962



June 15, 2016

POWER & HVAC PLAN  
 NOTES, EQUIPMENT &  
 DETAILS



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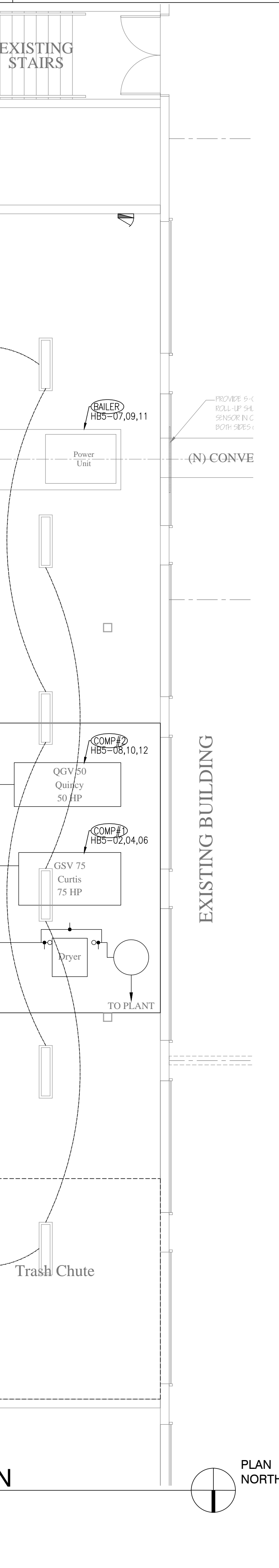
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**BAILER BUILDING POWER AND VENTILATION PLAN**  
 SCALE: 3/16" = 1'-0"



**GENERAL NOTES**

- THE PURPOSE OF THIS DRAWING IS TO PROVIDE POWER ROUTING AND CONSTRUCTION DETAILS. THESE PLANS DETAIL THE FINAL ARRANGEMENT OF EQUIPMENT AND THEIR ASSOCIATED APPENDAGES.
- THE SCOPE OF THIS PROJECT IS THE LOCAL LIGHTING AT THE BAILER BUILDING. THESE PHOTOMETRICS ARE BASED ON NEW LOCAL LIGHTING. EXISTING PARKING DRIVE LIGHTING IS TO REMAIN.
- ANY AND ALL QUESTIONS AS TO THE INTENT OF, OR PROCEDURES SET FORTH IN THESE DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE SUBMISSION OF A BID. LACK OF KNOWLEDGE OR UNDERSTANDING OF PLANS SHALL NOT JUSTIFY ANY CLAIMS OR EXTRA COMPENSATION.
- ALL SYMBOLS MAY NOT BE USED FOR THIS PROJECT.
- PRIOR TO CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL:
  - VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION.
  - PRIOR TO CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL SERVICE WITH THE UTILITY'S REPRESENTATIVE.
  - NOTIFY THE ENGINEER OF ANY CHANGES REQUIRED TO COMPLETE NEW CONSTRUCTION.
  - NEW ELECTRICAL SERVICE EQUIPMENT SHALL MATCH EXISTING A.I.C. RATING. EXISTING EQUIPMENT A.I.C. RATING MAY DIFFER.
- CONTRACTOR TO CONFIRM CABLE LENGTH FROM UTILITY TRANSFORMER/METER TO FIRST CONNECTION POINT MEET THE NEC MINIMUM VOLTAGE DROP REQUIREMENTS.
- ELECTRICAL CONTRACTOR SHALL VERIFY THE HEIGHT OF ALL EQUIPMENT PRIOR TO INSTALLATION.
- SWITCHES ARE TO BE MOUNTED AT 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.
- ALL EXTERIOR EQUIPMENT TO BE NEMA 3R RATED.
- PROVIDE POWER DROP ALONG STRUCTURAL COLUMN AND ROUTE CONDUIT OVERHEAD THROUGH FIELD ROUTED RACEWAYS TO EQUIPMENT LOCATIONS FOR POWER DATA AND COMPRESSED AIR BELOW EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL VERIFY THE HEIGHT OF ALL EQUIPMENT PRIOR TO INSTALLATION.
- SWITCHES ARE TO BE MOUNTED AT 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.

**CONDUIT**

- ALL WIRING SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE EMT (ELECTRICAL METALLIC TUBING) INSIDE THE BUILDING AND RIGID STEEL ON THE EXTERIOR EXPOSED FROM 5' ABOVE GRADE. CONDUIT BELOW GRADE SHALL BE RIGID STEEL CONDUIT WITH TWO COATS OF BITUMINOUS COATING, OR BE SCHEDULE 40 PVC.
- MINIMUM CONDUIT SIZE SHALL BE 1/2" TRADE SIZE.
- USE FLEXIBLE CONDUIT FOR SHORT FINAL CONNECTIONS TO VIBRATING EQUIPMENT SUCH AS MOTORS AND TRANSFORMERS. LIQUID-TIGHT CONNECTIBLE CONDUIT SHALL BE USED IN DAMP AND WET LOCATIONS.
- EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING LINES.
- DO NOT INSTALL CONDUITS LARGER THAN 1/3 THE SLAB THICKNESS IN CONCRETE SLABS.
- PROVIDE APPROVED FIRE STOPPING MATERIALS AT ALL PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS TO PREVENT THE PASSAGE OF SMOKE, FIRE, TOXIC GAS OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING, OR AFTER A FIRE, AS REQUIRED BY ARTICLE 300-21 OF THE NEC.
- PROVIDE CABLE SUPPORTS IN ACCORDANCE WITH ARTICLE 300 OF THE NEC.
- PROVIDE EXPANSION FITTINGS IN CONDUIT RUNS CROSSING STRUCTURAL EXPANSION JOINTS.
- IT IS THE CUSTOMER'S RESPONSIBILITY TO PROVIDE A LOW VOLTAGE RACEWAY OR MEANS TO RUN WIRES FROM THE EQUIPMENT, LOCATED AT THE CONTROL DESK, TO THE APPROACH AREA, AND FROM THE CONTROL DESK TO THE BACK OFFICE. ADDITIONAL LOW VOLTAGE CABLES ARE ROUTED FROM THE BACK OFFICE TO THE CLOSEST END LANE PAIR RISER AREA. VARIOUS WAYS OF DOING THIS CAN BE DISCUSSED WITH THE BRUNSWICK SERVICE REPRESENTATIVE AT THE TIME OF THE SURVEY.
- WHEN ROUTING THE LOW VOLTAGE CONDUIT OR INTERCONNECTING CABLES, EXTRA CARE MUST BE EXERCISED SO AS TO NOT PLACE THEM NEAR A NOISY ELECTRICAL ENVIRONMENT.

**SPECIFICATIONS**

- DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED FOR THE EXACT LOCATION OF EQUIPMENT, CABLEWAYS OR OTHER ITEMS. REFER TO THE ARCHITECTURAL PLAN AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT AND CONFIRM WITH OWNERS' REPRESENTATIVES.
- THESE PLANS DO NOT SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND MEET ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRIC CODE, 2012 EDITION OF NFPA 101, 2010 EDITION OF NFPA 72, 2014 EDITION OF NEC WITH REVISIONS. IN ADDITION, ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, AND ORDINANCES.
- THE ELECTRICAL SYSTEM SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED IN ARTICLE 250, NATIONAL ELECTRICAL CODE.
- THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER, LIGHT COMPANY AND TELEPHONE COMPANY.
- ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS, WORKMAN-LIKE MANNER. THE COMPLETED SYSTEM SHALL BE OPERATIVE AND ACCEPTANCE BY ENGINEER/ARCHITECT SHALL BE A CONDITION OF ANY SUB-CONTRACT.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE A WRITTEN WARRANTY THAT SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM THE DATE OF FINAL WORK ACCEPTANCE BY THE OWNER OR OWNERS REPRESENTATIVE.
- ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED FOLLOWING THE ISSUE OF APPROVED DRAWINGS SHALL BE PAID FOR BY THE CONTRACTOR.
- ALL 120V GENERAL BRANCH CIRCUITS, CARBON MONOXIDE/SMOKE ALARM COMBO UNITS & LIGHTS TO BE PROTECTED BY ARC INTERRUPTING CIRCUIT BREAKER-PER NEC. EXCEPTION IS GFI CIRCUIT TYPE BREAKERS FOUND IN KITCHEN, BATHROOM, GARAGES, AND OUTDOOR. PROVIDE TAMPER RESISTANT TYPE RECEPTLES PER NEC, NORMALLY USED FOR GENERAL POWER AND ILLUMINATION.
- UNLESS OTHERWISE NOTED, ALL CONDUCTORS SHALL BE COPPER, WITH "THIN" INSULATION FOR SIZE #10 AND SMALLER. CONDUCTORS LARGER THAN #10 SHALL HAVE "THIN" INSULATION. ALL CONDUCTORS #10 AND SMALLER MAY BE SOLID. ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED.
- THE CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTS.
- THE CONTRACTOR SHALL BE THOROUGHLY FAMILIARIZED WITH ALL ASPECTS OF THE PROJECT AND SHALL VERIFY ALL CONDITIONS PRIOR TO CONSTRUCTION.
- ALL INSTALLATIONS SHALL BE COORDINATED BY THE CONTRACTOR WITH OTHER TRADES TO AVOID IMPACTS.
- ALL REQUIRED CONSTRUCTION INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK SHALL BE PROVIDED BY THE CONTRACTOR.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY PHASE OF THE INSTALLATION WHICH MAY BE DAMAGED.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT FOR PROPER VOLTAGE, PHASE, AND CURRENT BEFORE CONNECTION TO CIRCUITS.
- ELECTRICAL CONTRACTOR SHALL CHECK AND VERIFY EQUIPMENT FURNISHED AGAINST THOSE SPECIFIED OR INTENDED AND REVISE BRANCH CIRCUITS AS MAY BE REQUIRED WITH PRIOR APPROVAL OF ENGINEER/ARCHITECT.
- ALL MATERIALS SHALL BE NEW AND SHALL BEAR UNDERWRITERS LABEL WHERE APPLICABLE. EQUIPMENT SHALL BE UL APPROVED.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK MAKE, QUICK BREAK, WITH ENCLOSURES AS REQUIRED BY EXPOSURE.
- CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZE. THE CONTRACTOR SHALL PROVIDE CIRCUITS TO SUIT JOB CONDITIONS.
- FURNISH AND INSTALL LIGHTING FIXTURES AND LAMPS AS CALLED FOR ON PLANS, OR AS SELECTED BY OWNER.
- SERVICE ENTRANCE EQUIPMENT FOR ALL ELECTRICAL ELEMENTS TO HAVE MIN. A.I.C. RATING OF 42,000 AMPS AND BE NEMA-3R RATED.
- ALL ELECTRICAL EQUIPMENT AND CABLING RATED @ 75°C CONTINUOUS DUTY.

**CONDUCTORS**

- ALL WIRING SHALL BE COPPER.
- CONDUCTORS SHALL BE RATED 600V. WITH TYPE THHN/THWN INSULATION.
- WIRES SIZE #10 AWG AND SMALLER SHALL BE SOLID CONDUCTOR.
- WIRES SIZE #8 AND LARGER SHALL BE STRANDED CONDUCTOR.
- MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG. CONTROL WIRING MAY BE #14 AWG.
- THE USE OF MC CABLE OR ARMOR CABLE FOR RECEPTACLE AND LIGHTING BRANCH CIRCUITS (20 AMPERE OR LESS) IS ACCEPTABLE FOR THE USE WITH THE APPROVAL OF THE AUTHORITY HAVING JURISDICTION.

**DEVICES**

- ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE 18" AFF UNLESS OTHERWISE NOTED.
- ALL LIGHT SWITCHES SHALL BE 48" AFF.

**FIRE ALARM**

- ALL EQUIPMENT SHALL BE UL LISTED FOR THE FIRE SERVICE AND SHALL BE COMPATIBLE WITH THE SYSTEM BEING USED.
- ALL WIRING SHALL CONFORM TO NFPA 70, 72, & 72-760. WIRE SHALL BE MIN #18 GA.
- UNLESS OTHERWISE INDICATED, A GENERAL ALARM SHALL SOUND UPON ACTIVATION OF ANY PULL STATION OR INITIATING DEVICE. ALL STROBES AND HORNS SHALL SOUND UPON A GENERAL ALARM.
- MANUAL PULL STATIONS SHALL BE INSTALLED @42" AFF.
- SMOKE DETECTORS SHALL BE INSTALLED PER NFPA 72.
- THE FIRE ALARM PANEL SHALL BE LISTED FOR CENTRAL STATION SERVICE PER NFPA 72.
- TWO TELEPHONE LINES SHALL BE PROVIDED TO THE FIRE CONTROL COMMUNICATOR, ONE SHALL BE DEDICATED.
- FIRE ALARM CIRCUITS SHALL BE CLASS 'B'
- SECURITY LOCK SYSTEM AND DEVICES (BY OTHERS) SHALL BE TIED INTO THE FIRE ALARM SYSTEM. ALL EXITS CONTROLLED BY THE SECURITY SYSTEM SHALL UNLOCK UPON ACTIVATION OF ANY FIRE ALARM SIGNAL OR GENERAL ALARM.
- HORN/STROBES SHALL BE MOUNTED @ 80" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER.
- HVAC DUCT SMOKE DETECTORS SHALL BE CONNECTED TO THE FIRE ALARM PANEL. THE DETECTORS SHALL ANNUNCIATE IN A SUPERVISORY SIGNAL ONLY.
- EXACT LOCATIONS OF THE DEVICES SHALL BE VERIFIED PRIOR TO INSTALLATION AND SHALL TIE INTO THE EXISTING SYSTEM SERVICING THE AREA.
- PROVIDE CERTIFICATE OF COMPLETION AT THE FINAL INSPECTION OF THE FIRE ALARM SYSTEM.
- DURING AN ALARM, ALL STROBES SHALL ANNUNCIATE AND SHALL REMAIN ON UNTIL THE SYSTEM IS RESET. A SILENCE SHALL NOT TURN OFF THE STROBES.

**PANEL BOARDS**

- PROVIDE LIGHTING AND RECEPTACLE PANELS AS INDICATED ON THE PLANS AND AS SPECIFIED HEREIN. ALL PANELS SHALL BE DEAD FRONT, CIRCUIT BREAKER TYPE, AND SHALL BARE THE UL LABEL AS WELL AS MEET ALL APPLICABLE NEMA REQUIREMENTS.
- UNLESS OTHERWISE NOTED, TOP OF PANELS SHALL BE MOUNTED 6'-0" A.F.F.
- ALL PANELS SHALL HAVE TYPE WRITTEN CIRCUIT DIRECTORIES MOUNTED INSIDE OF DOOR.
- PANELS SHALL BE SUITABLE FOR THE SERVICE RATING AND THE A.I.C. RATING INDICATED ON PANEL SCHEDULES.
- ALL BREAKERS SHALL BE FULL SPACE, INDIVIDUAL FRAME TYPE. NO "PIGGY-BACK" OR TANDEM BREAKERS WILL BE PERMITTED.
- A SEPARATE AND DEDICATED SUBPANEL MUST BE PROVIDED AND DIRECTLY WIRED TO MAIN SERVICE, HEREBY CALLED THE "ELECTRONICS SUBPANEL." IF A TRANSFORMER IS INSTALLED, THE PRIMARY OF THE TRANSFORMER TO MAIN SERVICE MUST HAVE A SEPARATE GROUND WIRE.

**FUSES**

- ALL FUSES SHALL HAVE A MIN 200,000 AMP RMS SYMMETRICAL INTERRUPTING RATING UNLESS OTHERWISE NOTED.
- FUSES RATED 0 TO 600 AMPS SHALL BE AS FOLLOWS:
  - CIRCUIT PANEL PROTECTION - UL CLASS RK-1 DUAL ELEMENT (BUSMAN "LOW-PEAK" OR EQUAL).
  - MOTOR CIRCUIT PROTECTION - UL CLASS RK-5, DUAL ELEMENT (BUSMAN "FUSETRON" OR EQUAL).
- FUSES RATED 601 SMPS AND LARGER SHALL BE UL CLASS L TIME DELAY (BUSMAN "HI-CAP" OR EQUAL)

**SAFETY SWITCHES**

- SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE, FUSIBLE OR NON-FUSIBLE WITH POLES, AMPERE AND SERVICE RATINGS AS INDICATED ON PLANS. LUGS SHALL BE UL LISTED FOR CU-AL.
- ENCLOSURES FOR SAFETY SWITCHES SHALL BE NEMA 1, EXCEPT FOR SWITCHES MARKED "WP" (WEATHERPROOF) SHALL BE NEMA 3R.

**BAILER SERVICE FEEDER SCHEDULE**

NO.	DESCRIPTION
200	200 AMP OFF FEEDER - (1) RUN OF 2" CONDUIT WITH (4) #3/0 KML, (1) #4 GRND CU THWN

**EAST POWER RISER MODIFICATIONS**  
 SCALE: N.T.S.



**EAST POWER RISER MODIFICATIONS**  
 SCALE: N.T.S.

D3

**ELECTRICAL PANEL SCHEDULE**

PANEL TAG	VOLTS	HBS* 3 PHASE GENERAL PWR. (2) 277/480 3Ø-4W	PANEL TYPE:	LOAD CENTER	(1) (5)	PANEL AMPS:	225	MOUNTING:	MIN. A.I.C.	SURFACE:	42,000 AMPS SERIES RATED																																																																																																																																																																																																																																																													
<table border="1"> <thead> <tr> <th colspan="3">BUS KVA</th> <th rowspan="2">LOAD</th> <th rowspan="2">COND</th> <th rowspan="2">WIRE SIZE</th> <th rowspan="2">POLE</th> <th rowspan="2">AMPS</th> <th rowspan="2">CKT</th> <th rowspan="2">BUS</th> <th rowspan="2">CKT</th> <th rowspan="2">AMPS</th> <th rowspan="2">POLE</th> <th rowspan="2">WIRE SIZE</th> <th rowspan="2">COND</th> <th rowspan="2">LOAD</th> <th colspan="3">BUS KVA</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>4.0</td> <td></td> <td></td> <td>LIGHTING</td> <td>1/2"</td> <td>12</td> <td>1</td> <td>20</td> <td>1</td> <td>x</td> <td>x</td> <td>2</td> <td>90</td> <td>3</td> <td>1-1/4"</td> <td>COMPRESSOR #1 - 75HP</td> <td></td> <td></td> <td>18.6</td> </tr> <tr> <td>4.0</td> <td></td> <td></td> <td>LIGHTING</td> <td>1/2"</td> <td>12</td> <td>1</td> <td>20</td> <td>3</td> <td>x</td> <td>x</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>18.6</td> </tr> <tr> <td></td> <td>4.0</td> <td></td> <td>LIGHTING</td> <td>1/2"</td> <td>12</td> <td>1</td> <td>20</td> <td>5</td> <td>x</td> <td>x</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>18.6</td> </tr> <tr> <td>11.0</td> <td></td> <td></td> <td>BAILER EQUIPMENT</td> <td>3/4"</td> <td>8</td> <td>3</td> <td>50</td> <td>7</td> <td>x</td> <td>x</td> <td>8</td> <td>60</td> <td>3</td> <td>6</td> <td>1"</td> <td>COMPRESSOR #2 - 50HP</td> <td></td> <td>12.4</td> </tr> <tr> <td></td> <td>11.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9</td> <td>x</td> <td>x</td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12.4</td> </tr> <tr> <td></td> <td></td> <td>11.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>11</td> <td>x</td> <td>x</td> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12.4</td> </tr> <tr> <td></td> <td></td> <td></td> <td>SPACE</td> <td></td> <td></td> <td></td> <td></td> <td>13</td> <td>x</td> <td>x</td> <td>14</td> <td></td> <td></td> <td></td> <td>SPACE</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>15</td> <td>x</td> <td>x</td> <td>16</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>17</td> <td>x</td> <td>x</td> <td>18</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>19</td> <td>x</td> <td>x</td> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>21</td> <td>x</td> <td>x</td> <td>22</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>23</td> <td>x</td> <td>x</td> <td>24</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												BUS KVA			LOAD	COND	WIRE SIZE	POLE	AMPS	CKT	BUS	CKT	AMPS	POLE	WIRE SIZE	COND	LOAD	BUS KVA			A	B	C	A	B	C	4.0			LIGHTING	1/2"	12	1	20	1	x	x	2	90	3	1-1/4"	COMPRESSOR #1 - 75HP			18.6	4.0			LIGHTING	1/2"	12	1	20	3	x	x	4							18.6		4.0		LIGHTING	1/2"	12	1	20	5	x	x	6							18.6	11.0			BAILER EQUIPMENT	3/4"	8	3	50	7	x	x	8	60	3	6	1"	COMPRESSOR #2 - 50HP		12.4		11.0							9	x	x	10							12.4			11.0						11	x	x	12							12.4				SPACE					13	x	x	14				SPACE												15	x	x	16																17	x	x	18																19	x	x	20																21	x	x	22																23	x	x	24							
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OA	OB	OC	FEEDER QTY	FEEDER CU	GRND CU	COND.
46.1	46.1	46.1	1	4/0	4	2"

PANEL LOAD CALCULATIONS	
TOTAL CONNECTED KVA	138.2 KVA
LIGHTING @ 125%	15.0 KVA
REMAINING @ 100%	126.2 KVA
PANEL KVA	141.2 KVA
PANEL SERVICE AMPS	169.8

REMARKS:  
 (1) MAIN CIRCUIT BREAKER  
 (2) CONFIRM ELECTRICAL REQUIREMENTS.  
 (3) PROVIDE ARC-FAULT INTERRUPTING CIRCUIT BREAKER.  
 (4) NON-CONCURRENT LOADS. PROVIDE "HACR" RATED BREAKER.  
 (5) VERIFY LOCATION.  
 (6) POWER EVAPORATOR UNIT THROUGH CONDENSING UNIT. SEE MNF. INSTALL DIRECTION.  
 (7) EXISTING POWER CIRCUITS HAVE BEEN DERATED 20% FROM BREAKER SIZE.