

POWER PLAN KEYNOTES

- HEAVY DUTY CORD REEL EQUIPMENT TAG 17, MOUNT TO ROOF STRUCTURE AT LOCATION SHOWN. CIRCUIT SHALL BE GFI PROTECTED PER PANEL SCHEDULE. INSTALL TO AVOID CONFLICT WITH OTHER EQUIPMENT. SEE DETAIL 3 ON SHEET E4 FOR ADDITIONAL INFORMATION.
- PROVIDE 20 AMPERE, 208 VOLT, SINGLE PHASE, 3 WIRE RECEPTACLE "NEMA" L6-20R AT 3'-10" AFF. FOR ELECTRONIC WHEEL BALANCER EQUIPMENT TAG 13A. VERIFY RECEPTACLE CONFIGURATION WITH PLUG PROVIDED WITH EQUIPMENT.
- PROVIDE DOUBLE DUPLEX RECEPTACLE FOR RP-1 AND WH-1. COORDINATE EXACT LOCATION OF WH-1 WITH PLUMBING CONTRACTOR.
- TELE-POWER POLE EXTEND POLE FROM SALES POD AND OR DESK TO SHOWROOM STRUCTURE. SEE "DETAIL 1" ON SHEET "E4" FOR ADDITIONAL INFORMATION. FLEX FROM POLE AND MOUNT ANCHOR WIRE DEVICES IN DESKS AS SHOWN, AND VERIFY REQUIREMENTS WITH MILLWORK VENDOR. COORDINATE EXACT POWER POLE DROP LOCATION PRIOR TO ROUGH-IN.
- PROVIDE 2" PVC CONDUIT FOR DATA CABLING STRIKING 6" ABOVE SERVER CABINET. EXTEND UP WALL TO 10" AFF.
- PLYWOOD BACKBOARD SEE ARCHITECTURAL INTERIOR ELEVATION FOR DETAILED DESCRIPTION OF BACKBOARD TO MOUNT TELEPHONE TERMINAL CABINET AND OTHER ELECTRICAL EQUIPMENT. FOR "TELEPHONE GROUNDING DETAIL", SEE SHEET "E3" FOR ADDITIONAL INFORMATION.
- AIR COMPRESSOR EQUIPMENT TAG 28 SEE "RISER DIAGRAM" ON SHEET "E5" AND "DETAIL 6" ON SHEET "E4" FOR ADDITIONAL INFORMATION. PROVIDE 30 AMPERE, 2 POLE, NON-FUSED, LOCKABLE, WITH LOCK PROVIDED, DISCONNECT SWITCH FOR AIR COMPRESSOR. PROVIDE 30 AMPERE, 2 POLE, NON-FUSED, LOCKABLE, WITH LOCK PROVIDED, DISCONNECT SWITCH FOR AIR DRYER. TAG 120 VOLT, SINGLE PHASE LOCATED ADJACENT TO AIR PIPE MANIFOLD ON AIR COMPRESSORS.
- DEDICATE ONE ISSUED GROUND RECEPTACLE MOUNTED AT 4'-0" ON WALL FOR WHEEL ALIGNMENT COMPUTER COORDINATE EXACT LOCATION AND CONNECTION REQUIRED WITH OWNER. REFER TO STRUCTURAL DRAWINGS FOR UNDER SLAB CONDUIT LOCATION FROM THE ALIGNMENT PIT TO THE ALIGNMENT CONTROLLER.
- TOILET ROOM EXHAUST FAN, 120 VOLT, SINGLE PHASE. PROVIDE ALL ACCESSORIES AS REQUIRED TO CONTROL EXHAUST FAN FROM OCCUPANCY SENSORS IN BOTH RESTROOMS AS SHOWN.
- SEE "RISER DIAGRAM" ON SHEET "E5" FOR ADDITIONAL INFORMATION.
- NOT USED
- PROVIDE 20 AMPERE, 208 VOLT, SINGLE PHASE, 3 WIRE RECEPTACLE "NEMA" L6-20R AT 3'-10" AFF. FOR ELECTRONIC WHEEL BALANCER EQUIPMENT TAG 13B. VERIFY RECEPTACLE CONFIGURATION WITH PLUG PROVIDED WITH EQUIPMENT.
- PROVIDE 30 AMPERE, 2 POLE, NON-FUSED, LOCKABLE, WITH LOCK PROVIDED, DISCONNECT SWITCH, SIEMENS MODEL #MM5K1. FOR ALIGNMENT LIFT EQUIPMENT CONTROL UNIT, UNLESS NOT ALLOWED BY AHJ. INSTALL DISCONNECT ON WALL BESIDE ALIGNMENT EQUIPMENT CONSOLE CABINET. PROVIDE ALL POWER AND SIGNAL WIRING AND CIRCUITING. CIRCUIT AS SHOWN. VERIFY ALL REQUIREMENTS WITH VENDOR. ROUTE CONDUIT FROM STRUCTURE TO DISCONNECT DOWN THE SIDE OF THE CABINET. CABINET MUST BE IN PLACE PRIOR TO CONDUIT DROP TO ENSURE CONDUIT ROUTING DOES NOT INTERFERE WITH PROPER EQUIPMENT OPERATION.
- PROVIDE 30 AMPERE, 2 POLE, NON-FUSED, LOCKABLE, WITH LOCK PROVIDED, DISCONNECT SWITCH, SIEMENS MODEL #MM5K1. FOR ROTARY LIFT EQUIPMENT CONTROL UNIT, UNLESS NOT ALLOWED BY AHJ. INSTALL DISCONNECT BELOW DECAL ON LIFT POST. DO NOT USE "THROUGH BOLTS" AS THIS TYPE OF BOLT MAY INTERFERE WITH EQUIPMENT OPERATION. ANCHORS FOR DISCONNECT SHALL BE IN THE CENTER OF THE LIFT POST. PROVIDE ALL POWER, SIGNAL, AND LIFT SAFETY SWITCH WIRING AND CIRCUITING. CIRCUIT AS SHOWN. VERIFY ALL REQUIREMENTS WITH VENDOR. ROUTE CONDUIT FROM STRUCTURE TO DISCONNECT DOWN THE SIDE OF THE EQUIPMENT POST. LIFT EQUIPMENT MUST BE IN PLACE PRIOR TO CONDUIT DROP TO ENSURE CONDUIT ROUTING DOES NOT INTERFERE WITH PROPER EQUIPMENT OPERATION.
- PROVIDE CONDUIT WITH PULL WIRE FOR TELEPHONE SERVICE. VERIFY EXACT REQUIREMENTS WITH LOCAL PHONE COMPANY. REFER TO CIVIL PLANS FOR MORE INFORMATION. PROVIDE CONDUIT SEAL AT 18" AFF COORDINATE ROUTING AND TERMINATION POINTS WITH SITE UTILITIES.
- PROVIDE DEVICES INDICATED IN "MVS DESK" AND WIRE TO POWER POLE AS SHOWN. VERIFY EXACT LOCATIONS OF ALL EQUIPMENT WITH OWNER PRIOR TO ROUGH-IN.
- RECEPTACLE CEILING MOUNTED, FOR SHOP FAN ITEM 42. CIRCUIT SHALL BE GFCI PROTECTED PER PANEL SCHEDULE. INSTALL ULINE #H-4092 18" WORKSTATION FAN, 1/8 HP, 120 VOLT OSCILLATING FAN. SEE "DETAIL 9" SHEET "E4" FOR ADDITIONAL INFORMATION. SEE KEYNOTE 24 THIS SHEET FOR CONTROL OF FAN. FOR FURNISHING OF EQUIPMENT SEE SHEET "F1".
- TOXALERT CO SENSOR PANEL, 120 VOLT POWER CONNECTION.
- PROVIDE JUNCTION BOX FOR FIRE ALARM EQUIPMENT AND OPTIONAL SECURITY CONTROL PANEL. VERIFY EXACT ELECTRICAL CONNECTION OF EQUIPMENT IN FIELD AND PROVIDE RECEPTACLE AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH OWNER.
- PROVIDE A L6-30R RECEPTACLE TO A SEPARATE 30 AMPERE, 208 VOLT, SINGLE PHASE CIRCUIT FOR ITEM 16B RIM CLAMP TIRE CHANGER #TCR1. RECEPTACLE SHALL BE FED WITH # 8 AWG WIRE.
- CONDUIT ASSOCIATED WITH DATA BOX SHALL BE EXTENDED TO SERVER CABINET. DAYLIGHT CONDUIT IN SERVER CABINET APPROXIMATELY 15' A.F.F. PROVIDE PULL STRINGS IN CONDUIT.
- SEE FLOOR PLAN "A1" FOR ALL ELECTRICAL EQUIPMENT CLEARANCE BOTH HORIZONTALLY AND VERTICALLY IN THIS SPACE.
- PROVIDE RECEPTACLE FOR "NO LOSS DAYS" SIGN AT 11'-0" AFF. VERIFY EXACT LOCATION WITH CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.
- PROVIDE WALL SWITCHES FOR THE CONTROL OF SHOP FANS ITEM 42. LABEL ALL SWITCHES TO CORRESPOND WITH THE CONTROLLED FAN. REFERENCE KEYNOTE 17 FOR ADDITIONAL INFORMATION.
- MOUNT RECEPTACLE ON PLYWOOD AT 3'-10" AFF FOR TEMPORARY POWER FOR SMALL HAND TOOL BATTERY RECHARGING.
- INTERLOCK "L-1" AND "EF-1" SUCH THAT WHEN "EF-1" IS IN RUN MODE, "L-1" IS OPEN. SWITCH ON MOTOR DESIGNATES MOTOR OVERLOAD DISCONNECT TOGGLE SWITCH TYPE. EXHAUST FAN SHALL BE CONTROLLED BY OCCUPANCY SENSORS IN SPACE. PROVIDE ALL ACCESSORIES AS REQUIRED.
- THIS RECEPTACLE ONLY TO BE MOUNTED AT 64" AFF.
- SWITCH ON MOTOR DESIGNATES MOTOR OVERLOAD DISCONNECT TOGGLE SWITCH TYPE.
- PROVIDE POWER TO FACTORY MOUNTED DISCONNECT SWITCH. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
- CONDUIT ASSOCIATED WITH DATA BOX SHALL BE EXTENDED TO SERVER CABINET. PROVIDE PULL STRINGS IN CONDUIT.
- INTERLOCK "EF-3" AND "L-2" WITH TOXALERT AND CO SENSOR SUCH THAT WHEN "EF-3" IS IN RUN MODE, "L-2" IS OPEN. SEE "RISER DIAGRAM ON SHEET E5 FOR ADDITIONAL INFORMATION.
- PROVIDE 2" RIGID METAL CONDUIT FROM 6" ABOVE IT CABINET TO TELEPHONE EQUIPMENT.
- PROVIDE 8" LONG, 2" DIAMETER PVC CONDUIT THRU WALL AS SHOWN. MOUNT CONDUIT AT SAME HEIGHT AS BOTTOM OF JOIST, AND AS CLOSE AS POSSIBLE TO JOIST. PROVIDE GROMMET ON BOTH ENDS OF PVC. SEE ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION.
- MOUNT RECEPTACLE INSIDE SERVER CABINET AT 6" AFF. MOUNT RECEPTACLE AND CONDUIT AFTER SERVER CABINET INSTALLATION. REFER TO SHEET A7 FOR ADDITIONAL INFORMATION.
- PROVIDE 30 AMPERE, 2 POLE, NON-FUSED, LOCKABLE, WITH LOCK PROVIDED, DISCONNECT SWITCH, SIEMENS MODEL #MM5K1 FOR LIFT EQUIPMENT CONTROL UNIT, UNLESS NOT ALLOWED BY AHJ. INSTALL DISCONNECT ON SIDE OF CONTROL BOX. PROVIDE POWER POLE AS REQUIRED. PROVIDE ALL POWER AND SIGNAL WIRING AND CIRCUITING. CIRCUIT AS SHOWN. VERIFY ALL REQUIREMENTS WITH VENDOR.
- INSTALL DISCONNECT AT 51" AFF. REFER TO SHEET "E1" FOR SWITCH LOCATION.
- JUNCTION BOX WITH TOGGLE SWITCH DISCONNECT MOUNTED AT CEILING FOR GAS FIRED RADIANT HEAT CONTROLS. CONTRACTOR TO PROVIDE ALL REQUIRED DEVICES AND EQUIPMENT TO MAKE A COMPLETE WORKING SYSTEM. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- ROUTE AND CONCEAL ALL CORDS FOR POWER STRIPS IN NEAT AND CLEAN MANNER. CONCEAL ALL CORDS AS MUCH AS POSSIBLE.

ELECTRICAL SHOP EQUIPMENT SCHEDULE

ITEM #	QUANTITY	DESCRIPTION	VOLTS	PHASE	POLE	AMPS	REMARKS
9	1	AIR DRYER	120	1	1	20	SEE "POWER PLAN KEYNOTES" #7 ON THIS SHEET
10	1	BRAKE SHOP (INSTALLED BY HUNTER)	120	1	1	20	
13A	1	ELECTRONIC WHEEL BALANCER GSP9700 (INSTALLED BY HUNTER)	208	1	2	20	SEE "POWER PLAN KEYNOTES" #2 ON THIS SHEET
13B	1	ELECTRONIC WHEEL BALANCER GSP9200 (INSTALLED BY HUNTER)	208	1	2	20	SEE "POWER PLAN KEYNOTES" #12 ON THIS SHEET
17	3	HEAVY DUTY CORD REEL	120	1	1	20	SEE "POWER PLAN KEYNOTES" #1 ON THIS SHEET
18B	1	RIM CLAMP TIRE CHANGER HUNTER AUTO #TCR1S (INSTALLED BY HUNTER)	208	1	2	30	SEE "POWER PLAN KEYNOTES" #20 ON THIS SHEET
28	2	5 HP AIR COMPRESSOR	208	3	3	30	SEE "POWER PLAN KEYNOTES" #7 ON THIS SHEET
42	6	SHOP FAN	120	1	1	20	SEE "POWER PLAN KEYNOTES" #17 ON THIS SHEET

NOTES:
 CONTRACTOR SHALL VERIFY ALL ELECTRICAL REQUIREMENTS AND NEMA CONFIGURATIONS TO ACTUAL EQUIPMENT SUPPLIED PRIOR TO ROUGH-IN

DATA REQUIREMENTS

THERE ARE A TOTAL OF 12 LINES THAT SERVICE EACH STORE FOR PHONE AND DATA. INTERNET SERVICE VIA LOCAL CABLE SERVICE WILL BE INSTALLED POST OPENING. ALL LINES TERMINATE AT "D-MARC" BOARD IN UTILITY AREA.

PROVIDE ALL POWER AND LOW VOLTAGE CONDUITS, PER CODE, AND THIS INCLUDES OPTIONAL STATE INSPECTIONS EQUIPMENT.

CLEAR ACCESS WILL BE MAINTAINED IN ORDER FOR BSRO "IT" DEPARTMENT TO INSTALL ALL NECESSARY WIRING. BSRO "IT" DEPARTMENT WILL INSTALL ALL WIRING AND EQUIPMENT UNLESS OTHERWISE NOTED.

POWER

"SERVER CABINET" REQUIREMENTS IN "MANAGER OFFICE"

PROVIDE ONE (1) QUAD RECEPTACLE AS SHOWN.

"MVS" STATION REQUIREMENTS IN SERVICE AREA.

PROVIDE ONE (1) QUAD RECEPTACLE USING A 15'-0" LONG POWER POLE. THE POWER POLE SHOULD COMMENCE FROM INSIDE THE "MVS" DESK AND EXTEND VERTICALLY TO 6 INCHES BELOW THE "SERVICE AREA" CEILING, SO THAT THE TOP OF THE POWER POLE IS OPEN TO ACCEPT THE POWER CABLE AND PHONE/DATA WIRES FOR THE "MVS" DESK. SUPPORT THE POWER POLE AT THE TOP TO THE STRUCTURE WITH ONE FOOT LONG MISCELLANEOUS ANGLE. INSTALL ONE (1) QUAD RECEPTACLE IN THE MIDDLE OF THE CABINET. THE POWER SHOULD TERMINATE IN A JUNCTION BOX MOUNTED ON THE BACK SIDE OF THE CABINET.

"POD" REQUIREMENTS IN CUSTOMER SALES AREA.

PROVIDE ONE (1) QUAD RECEPTACLE WHICH SHOULD TERMINATE IN A JUNCTION BOX MOUNTED ON THE BACK SIDE OF THE PANEL, APPROXIMATELY 19 INCHES ABOVE THE BOTTOM OF CABINET AND BELOW THE LOWEST FIXED SHELF.

CONDUIT

UTILITY ROOM AND EXTERIOR SITE CONDUIT.

PROVIDE SUFFICIENT LENGTH OF 2" CONDUIT AND EXTEND THE ONE (1) 2" CONDUIT FROM THE EXTERIOR TO THE "D-MARC" LOCATION ON THE UTILITY ROOM BOARD. SEE NOTE 15.

SERVER CABINET LEFT SIDE CONDUIT

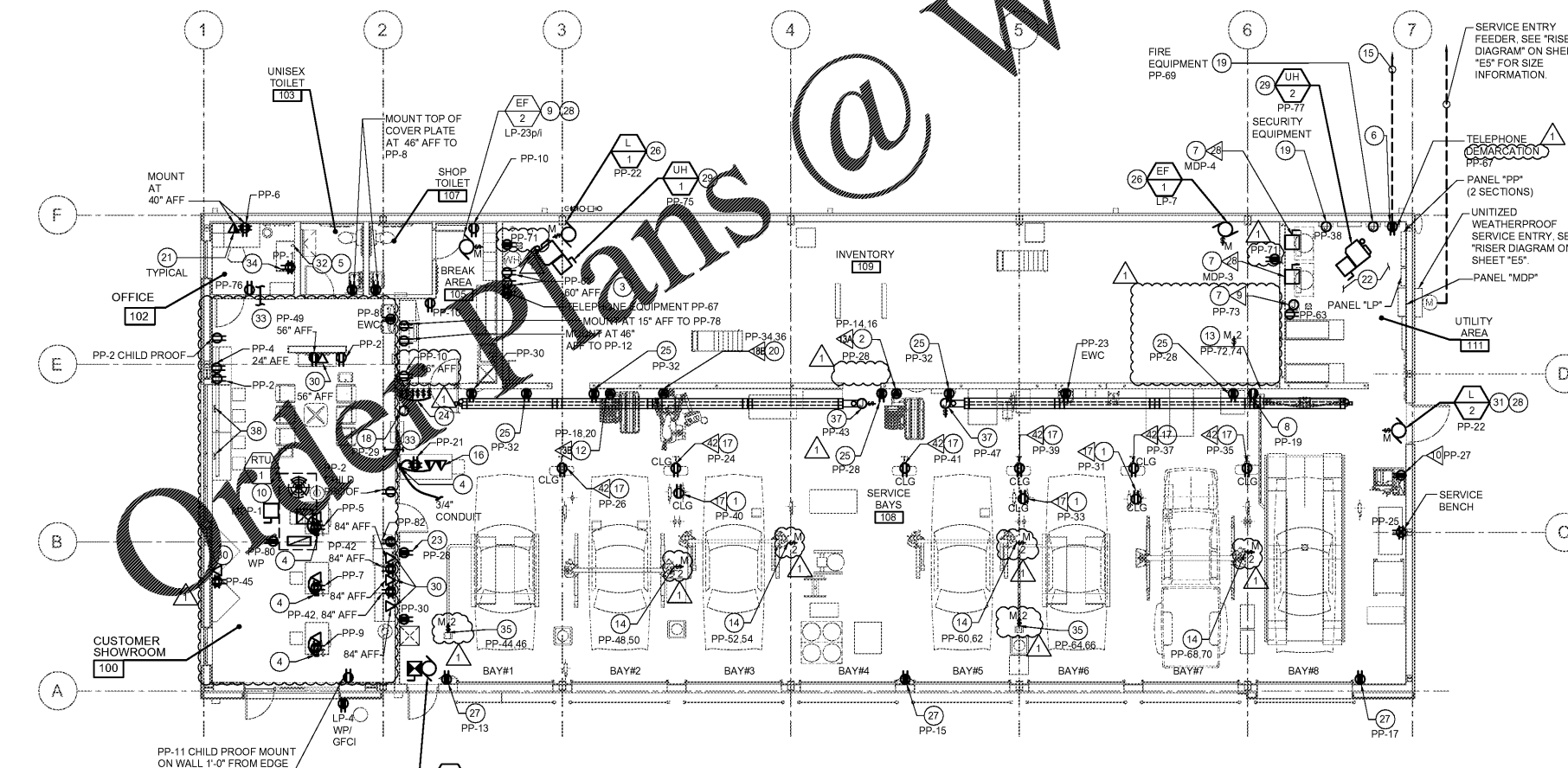
PROVIDE ONE (1) 2" CONDUIT INSIDE LEFT SIDE OF SERVER CABINET EXTEND TO 12'-0" AFF. PROVIDE ONE (1) ADDITIONAL 2" CONDUIT FROM 13'-0" AFF TO 10'-0" AFF ABOVE TELEPHONE EQUIPMENT RECEPTACLE IN INVENTORY.

"MVS" POWER POLE

PROVIDE SUFFICIENT LENGTH OF 2" CONDUIT MOUNTED AT STRUCTURE FROM THE "SERVICE AREA" TO A POINT WITHIN 1" OF THE TOP OF THE POWER POLE SERVICING THE "MVS" DESK AND THROUGH THE WALL SEPARATING THE "SERVICE AREA" AND THE "CUSTOMER SALES" AREA. CONTINUE WITH SUFFICIENT LENGTH TO CONNECT TO THE SERVER CABINET BOARD. INSULATED BUSHING AT EACH END. THIS CONDUIT IS USED TO SERVE WIRES RUN FROM THE "MVS" DESK TO THE SERVER CABINET BOARD AS DESCRIBED ABOVE.

POWER PLAN GENERAL NOTES

- ALL SWITCHES AND OTHER LIKE DEVICES TO BE 48" AFF, UNLESS OTHERWISE NOTED.
 - ALL ELECTRICAL CONDUITS ALONG MU WALLS NEED TO BE DROPPED DIRECTLY FROM STRUCTURE DOWN TO DEVICE BELOW. NO HORIZONTAL CONDUIT RUNS ALLOWED.
 - ALL DEVICES LOCATED IN "SERVICE AREA" SHALL BE MOUNTED AT 48" AFF UNLESS NOTED OTHERWISE.
 - ALL DEVICES LOCATED IN THE FOLLOWING ROOMS: "CUSTOMER SHOW ROOM", "OFFICE", "SERVICE AREA", "TOILET", AND "UNISEX TOILET", SHALL BE MOUNTED AT 48" AFF, UNLESS NOTED OTHERWISE.
 - ALL WIRING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE "NEC" AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION FOR ROUTING OF ALL CONDUITS. SEE NOTE 15 IN THE "GENERAL ELECTRICAL NOTES" ON SHEET "E3".
- WIRE ALL HVAC CONTROL DEVICES, AND COORDINATE WITH OTHERS. SEE NOTE 15 IN THE "GENERAL ELECTRICAL NOTES" ON SHEET E3 FOR ADDITIONAL INFORMATION.



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