ELECTRICAL ANCHORAGE NOTES ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10, CHAPTERS 13, 26 AND 30: 1. ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING ELECTRICAL UTILITY SERVICE. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS. THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS. OR IN THE CASE OF DISTRIBUTED SYSTEMS. LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL. FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS. THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS. 8. PROVIDE LABELING AND DIRECTORIES FOR ALL SWITCHBOARDS AND PANELBOARDS PER CEC 408.4. 9. ELECTRICAL EQUIPMENT SHALL HAVE A SHORT CIRCUIT CURRENT RATING CAPABLE OF WITHSTANDING THE AVAILABLE SHORT CIRCUIT CURRENT PER CEC 110.9. ELECTRICAL SYSTEM BRACING NOTES 12. WIRING FOR 120/208V AND 277/480V SYSTEMS SHALL BE MIN. #12 AWG THHN/THWN COPPER. 13. FEEDERS SIZE #4 AND LARGER SHALL BE MEGGER TESTED. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER. THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10, SECTION 13.3 AS DEFINED IN ASCE 7-10, SECTIONS 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.24, 14. COLORS/FINISHES/MATERIALS FOR ALL ELECTRICAL DEVICES, PLATES, LIGHT FIXTURES, ETC. SHALL BE CHOSEN BY THE OWNER. 1616A1.25, AND 1616A.1.26. 15. EXISTING EQUIPMENT TO BE REMOVED AND/OR REPLACED SHALL BE DELIVERED TO THE DISTRICT MAINTENANCE DEPARTMENT OR DISPOSED OF, AT THE DISCRETION OF THE DISTRICT. THE ELECTRICAL DISTRIBUTION SYSTEM MAY BE DETAILED ON THE APPROVED DRAWINGS WITH SPECIFIC NOTES AND DETAILS. WHEN A DETAIL IS NOT PROVIDED ON THE PLANS, THE ELECTRICAL DISTRIBUTION SYSTEM SHALL COMPLY WITH OSHPD 16. CONDUIT INSTALLED ABOVE GRADE SHALL BE MIN. 3/4" TRADE SIZE. CONDUIT BELOW GRADE SHALL BE MIN. 1" TRADE SIZE. PRE-APPROVAL #OPM-0052-13 (B-LINE). 17. PROVIDE (4) 1" CONDUIT STUBS FROM NEW ELECTRICAL PANEL TO ACCESSIBLE ATTIC SPACE FOR FUTURE USE. COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE DESIGN PROFESSIONAL IN GENERAL 18. HOLES ARE NOT ALLOWED THROUGH TOP PLATES OF BEARING WALLS AND SHEAR WALLS. RESPONSIBLE CHARGE SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

SCOPE OF WORK

GENERAL ELECTRICAL NOTES

ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:

ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIEY THE SCOPE OF WORK WITH THE ARCHITECT AND THE GENERAL CONTRACTOR.

2016

2016

OF THE INSTALLATION IS TO BE INCLUDED, WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED.

& PROVISION OF ALL APPURTENANCES NECESSARY FOR A COMPLETE & OPERATING SYSTEM.

19. INCLUDE FIRE STOP SYSTEMS REQUIRED FOR ALL WORK AFFECTED BY FIRE RATED ASSEMBLIES.

NOTHING IN THE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

ELECTRICAL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED (UL, CSA ETC.) PER CEC 110.2.

THAN 27" AFF OR GREATER THAN 80" AFF. OR SHALL BE PROVIDED WITH A BARRIER CONFORMING TO CBC 11B-307.4.

THE PROJECT SCOPE OF WORK IS TO RETROFIT THE EXISTING THEATER LIGHTING AND SOUND SYSTEMS WITH INFRASTRUCTURE FOR NEW SYSTEMS. THE LIGHT FIXTURES, CONTROLLERS, SPEAKERS. AND ELECTRONICS SHALL BE PROVIDED BY THE OWNER. THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO:

- REMOVAL OF EXISTING DIMMING RACK, DIMMING CIRCUIT CONDUCTORS, AND STAGE PIN CONNECTORS. SAVE EXISTING RACEWAYS FROM DIMMER RACK TO OUTLETS FOR RE-USE WHERE
 - INSTALLATION OF NEW DISTRIBUTION PANELS TO SERVE NEW LIGHTING AND SOUND SYSTEMS.
 - INSTALLATION OF L5-20 OUTLETS FOR NEW STAGE LIGHTING, WITH CUSTOM PLATES TO COVER THE OLD STAGE PIN OUTLET BOXES.
- 4. INSTALLATION OF END-TO-END DMX CABLING, 5-PIN XLR OUTLETS AND CONNECTORS, AND 8-WAY DISTRIBUTOR/BOOSTERS FOR CONTROL.
- 5. INSTALLATION OF 5-PIN XLR OUTLETS AT LIGHTING BATTEN LOCATIONS AND DMX CABLING TO DISTRIBUTOR/BOOSTERS.
- MOUNTING OF NEW LIGHTING SHALL BE BY OWNER.

CALIFORNIA BUILDING CODE

DOCUMENTS.

CALIFORNIA ELECTRICAL CODE

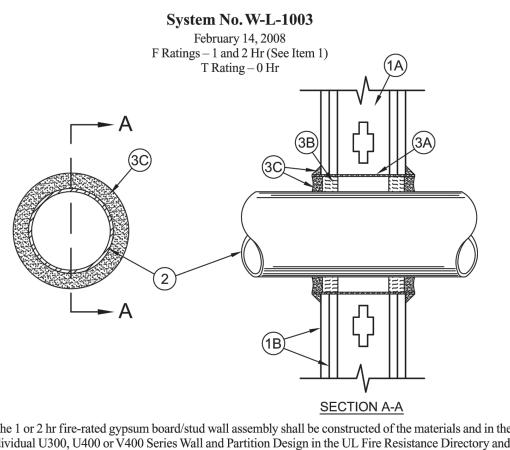
NON RESIDENTIAL CEC ENERGY STANDARDS

- REMOVAL OF THE EXISTING SOUND RACK, SPEAKERS, CABLING, AND AUDIO OUTLETS.
- INSTALLATION OF L5-20 OUTLETS AND ISOLATED GROUND FOR NEW SELF-POWERED SPEAKERS
- 9. INSTALLATION OF SPEAKER 3-PIN XLR AUDIO OUTLETS AND END-TO-END SHIELDED SPEAKER CABLING FROM THE SOUND BOOTH FOR NEW SELF-POWERED SPEAKERS.
- 10. MOUNTING OF NEW SPEAKERS SHALL BE BY OWNER.
- 11. INSTALLATION OF END-TO-END CAT 5e CABLING AND CONNECTION FROM THE SOUND BOOTH TO DMX CPC SNAKE BREAK-IN AND BREAK-OUT ASSEMBLIES FOR AUDIO INPUTS.
- 12. THE EXISTING HOUSE LIGHTING AND CONTROLS ARE NOT TO BE MODIFIED.
- 13. ALL NEW WORK IS TO BE CONCEALED. RUN NEW LOW VOLTAGE CABLES ABOVE THE EXISTING CEILINGS IN THE MULTI-PURPOSE ROOMS AND DRESSING ROOMS. RUN NEW LOW VOLTAGE CABLES BUNDLED NEATLY IN WALL MOUNTED J-HOOKS ABOVE THE STAGE.
- EQUIPMENT UNDAMAGED TO OWNER.

14. SCISSOR LIFT, CUT AND PATCH WHERE NEEDED, REPAIR OF ANY DAMAGED SURFACES, PAINTING FOR THESE ITEMS, CLEANUP, AND HAUL-OFF OF TRASH. RETURN EXISTING HEAD END

- 15. THE PRE-BID JOB WALK IS MANDATORY. THE CONTRACTOR SHALL VISUALLY INSPECT THE EXTENT OF DEMOLITION REQUIRED AND THE LAYOUT OF THE SPACES TO DETERMINE THE EXTENT OF LABOR AND NEW WORK REQUIRED.
- 16. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS FOR THIS SCOPE OF WORK AND SHALL HAND OVER A PROFESSIONALLY INSTALLED, TURN-KEY SYSTEM READY FOR THE OWNER'S
- EQUIPMENT. ALL CABLING SHALL BE TESTED WITH DOCUMENTED TEST REPORTS, AND DEMONSTRATED TO OWNER AS FUNCTIONAL. ALL WORK SHALL BEAR A 5 YEAR WARRANTY.
- 17. ADDITIVE ALTERNATE #1: THE CONTRACTOR SHALL MOUNT AND CONNECT THE OWNER'S LIGHT FIXTURES AT PIPE BATTONS, SELF-POWERED SPEAKERS AT WALLS AND BEAMS, AND ELECTRONICS EQUIPMENT AT VARIOUS LOCATIONS. A BILL OF MATERIALS SHALL BE ATTACHED TO THE BID DOCUMENTS.

ELECTRICAL SYMBOL LEGEND <u>SYMBOL</u> DESCRIPTION <u>NOTES</u> REFER TO POWER SINGLE LINE DIAGRAM **SWITCHBOARD** POWER PANEL REFER TO PANEL SCHEDULE JUNCTION BOX 4-11/16" SQUARE BOX & COVER PLATE MIN. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER EVERYTHING REQUIRED TO PROVIDE FOR COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH LABOR. DISCONNECT SWITCH, FUSIBLE REFER TO MECH. PLANS & SPECS. MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART COMBINATION STARTER/DISCONNECT SWITCH REFER TO MECH. PLANS & SPECS. THE CONTRACTOR SHALL MAKE A FIELD VISIT TO EXAMINE THE SITE AND EXISTING CONDITIONS, AND MAKE ALLOWANCES IN THE BID FOR ANY CONDITIONS NOT SHOWN ON THE ELECTRICAL MOTOR REFER TO MECH. PLANS & SPECS. DUPLEX CONVENIENCE OUTLET 20A SPEC. GRADE, NEMA GROUNDED, TAMPER RESISTANT, LEVITON #16352-W THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES AND ARE NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF AT +15" AFF TO BOTTOM OF BOX, U.O.N. ELECTRICAL ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING & PHYSICAL CONDITIONS MAY VARY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL ROUTING, CONNECTIONS, DUPLEX CONVENIENCE OUTLET W/ ISOLATED GROUND 20A SPEC. GRADE, NEMA GROUNDED, TAMPER RESISTANT, LEVITON #M1636-IGW AT +15" AFF TO BOTTOM OF BOX, U.O.N. QUADPLEX CONVENIENCE OUTLET 20A SPEC. GRADE, NEMA GROUNDED, TAMPER RESISTANT, LEVITON #16352-W AT +15" AFF TO BOTTOM OF BOX, U.O.N. 208V EQUIPMENT OUTLET VERIFY REQUIREMENTS W/ EQUIPMENT VENDOR AT +15" AFF TO BOTTOM OF BOX, U.O.N. 10. PROVIDE MINIMUM 30" WIDE x 78" HIGH x 36" DEEP [42" DEEP] WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208V 30 4W [277/480V 30 4W] PER CEC STAGE LIGHTING CONTROL OUTLET TERMINATE INCOMING DMX CABLES FROM "OPTO" DISTRIBUTOR/BOOSTERS TO OUTLETS. 11. ALL WALL AND SURFACE MOUNTED FIXTURES PROTRUDING IN THE PATH OF TRAVEL (POT) OR COMMON PEDESTRIAN WAYS SHALL COMPLY WITH CBC 11B-307.2, OR SHALL BE MOUNTED LESS 5-PIN XLR OUTLETS, MACHINED GOLD PLATED CONTACTS, SOLDER BUCKET, NICKEL FINISH, WITH STAINLESS COVER PLATE: AMPHENOL #AC5FDZ-AU, OR EQUAL. ELATION "OPTO BRANCH 8" 8-WAY DISTRIBUTOR/BOOSTER RUN DMX CABLE FROM "OPTO" LOCATION TO MIXER LOCATION AT SOUND BOOTH AND WITH WALL MOUNT FRAME TERMINATE TO XLR OUTLET AT "DMXL" RUN DMX CABLE OUTPUTS FROM "OPTO" TO "XL" LIGHTING CONTROL OUTLETS. 8-WAY DMX DISTRIBUTOR/BOOSTER FURNISHED BY OWNER. RACK MOUNT FRAME FURNISHED AND INSTALLED BY CONTRACTOR. 5-PIN XLR MALE CONNECTORS, MACHINED GOLD PLATED CONTACTS, SOLDER BUCKET, WITH STAINLESS COVER PLATE: AMPHENOL #AX5MB-AU, OR EQUAL 2 PAIR 22 AWG STRANDED 7x30 TC CONDUCTORS, TWISTED PAIRS, OVERALL FOIL WRAP, DMX 512 LIGHTING CONTROL CABLE: BELDEN #BE43906, OR EQUAL. (2) DMX LIGHTING CONTROL OUTLETS IN PATCH PANEL: TERMINATE INCOMING DMX CABLES FROM "OPTO" DISTRIBUTOR/BOOSTERS TO OUTLETS 5-PIN XLR OUTLETS, MACHINED GOLD PLATED CONTACTS, SOLDER BUCKET. NICKEL FINISH. INPUTS FOR "OPTO" DISTRIBUTOR/BOOSTERS. INSTALL AT MIXER LOCATION IN SOUND BOOTH. WITH STAINLESS COVER PLATE AMPHENOL #AC5FDZ-AU, OR EQUAL STAGE PIN LIGHTING OUTLET (TO BE REMOVED) MIX MIXER LOCATION MIXER FURNISHED AND INSTALLED BY OWNER. SPEAKER OUTLE 3-PIN XLR OUTLET, STAMPED GOLD PLATED CONTACTS, SOLDER BUCKET, NICKEL FINISH. WITH STAINLESS COVER PLATE AMPHENOL #AC3FDZ-AU, OR EQUAL 1 PAIR 22 AWG STRANDED 7x30 TC CONDUCTORS, TWISTED PAIR, OVERALL FOIL WRAP, CM BELDEN #8451, OR EQUAL RUN SPEAKER CABLING TO SPEAKER BOOTH. SPEAKER FURNISHED AND INSTALLED BY OWNER. 3-PIN XLR OUTLETS MOUNTED TO PANEL. PULL CABLES IN THRU 6" SQ. BOX WITH (2) 2"C. SPEAKER CONNECTOR PANEL WITH 3-PIN XLR JACKS TO ATTIC SPACE. PULL CABLES THROUGH GROMMETED COVER TO CONNECTOR PANEL. AMPHENOL #AC-SERIES CHASSIS MOUNT, OR EQUAL CONNECTOR PANEL FURNISHED AND INSTALLED BY CONTRACTOR. VERIFY LOCATION AND CONFIGURATION WITH OWNER'S REP. CAT5e FOR END-TO-END COMMUNICATION TO SOUND BOOTH. PULL CABLE THRU 1-GANG DMX CPC SNAKE BREAK-OUT ASSEMBLY WITH CABLE OUTLET. VERIFY EXACT LOCATION W/ OWNER'S REP. BOX WITH 1-GANG RING & GROMMETTED, STAINLESS COVER PLATE, AND 1/2"C. TO ATTIC SPACE. INSTALL CABLES TO BREAK-OUT ASSEMBLY CONNECTOR.



Wall Assembly – The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-1/2 in. (89 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. **Gypsum Board*** – Nom 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 15 in. (381 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. **Through Penetrant** – One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The space between pipes, conduits or tubing and the steel sleeve (Item 3A) shall be min of 0 in. (point contact) to max 2-3/8 in. (60 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or

tubing may be used: A. **Steel Pipe** – Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe – Nom 12 in. (305 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. Conduit - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.

D. **Copper Tubing** – Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. E. Copper Pipe – Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Firestop System** – Installed symmetrically on both sides of wall assembly. The details of the firestop system shall be as follows. Steel Sleeve – Cylindrical sleeve fabricated from min 0.019 in. thick (0.48 mm) galv sheet steel and having a min 2 in. (51 mm) lap along the longitudinal seam. Length of steel sleeve to be equal to thickness of wall plus 1 to 4 in. (25 to 102 mm) such that, when

installed, the ends of the sleeve will project approx 1/2 to 2 in. (13 to 51 mm) beyond the surface of the wall on both sides of the wall Sleeve installed by coiling the sheet steel to a diam smaller than the through opening, inserting the coil through the openings and

releasing the coil to let it uncoil against the circular cutouts in the gypsum board layers. Packing Material – Min 1 in. (25 mm) thickness of mineral wool batt insulation firmly packed into steel sleeve on both sides of

the wall assembly as permanent forms. Packing material to be recessed min 1/2 in. (13 mm) from end of steel sleeve (flush with or recessed into gypsum board surface) on both sides of wall assembly. B1. Packing Material – (Not shown) – As an alternate to Item B, nom 1 in. (25 mm) thick polyethylene backer rod may be used. The

Fill, Void or Cavity Materials* - Caulk or Sealant - When mineral wool batt insulation is used, caulk or sealant applied to fill the steel sleeve to a min depth of 1/2 in. (13 mm) on both sides of wall assembly. When backer rod is used, a min thickness of 1 in. (25 mm) of caulk or sealant is required flush with both sides of wall. A nom 1/4 in. (6 mm) diam continuous bead of caulk or sealant shall be applied around the circumference of the steel sleeve at its egress from the gypsum board layers on both sides of the wall assembly.

RATED WALL PENETRATION DETAIL NO SCALE

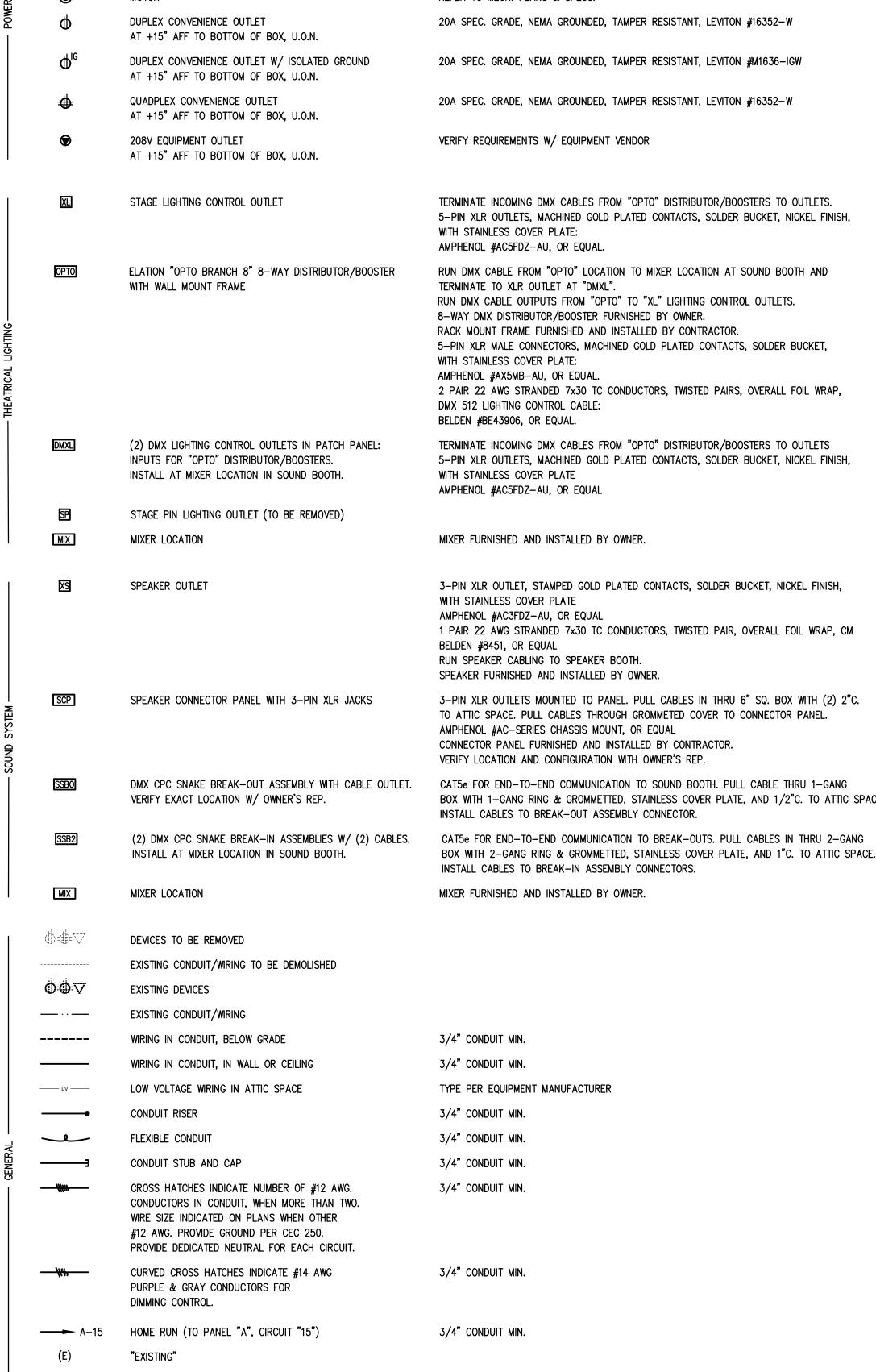
*Bearing the UL Classification Mark

This material was extracted and drawn by 3M Fire Protection Products from the 2008 edition of the UL Fire Resistance Directory. c(UL)us

backer rod is to be recessed within the steel sleeve a min of 1 in. (25 mm) from each surface of wall.

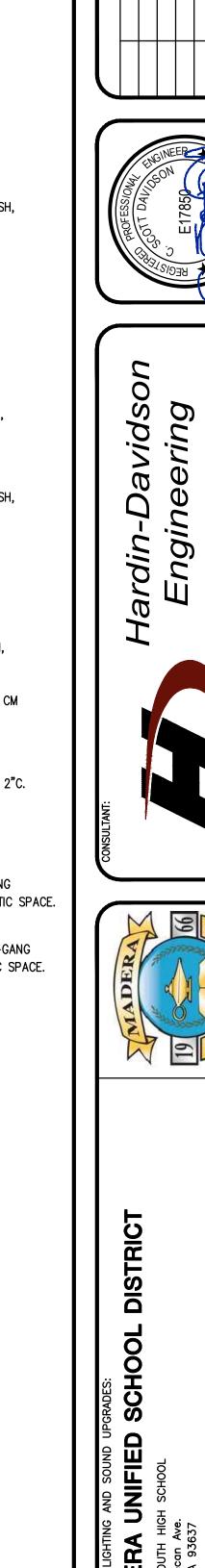
3M COMPANY – CP 25WB+, IC 15WB+ or FB-3000 WT





U.O.N.

"UNLESS OTHERWISE NOTED"

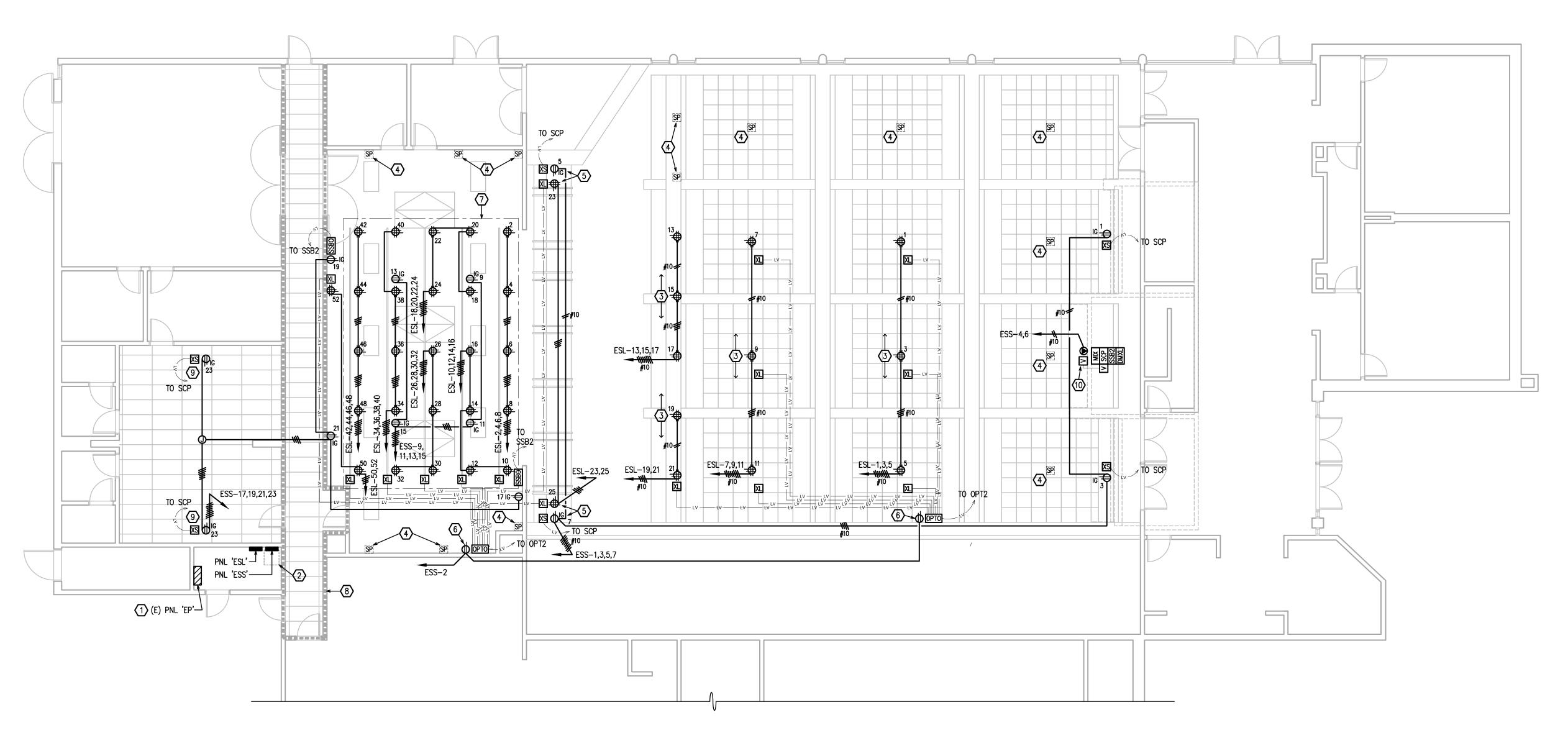


03/20/19

S. DAVIDSON

AS NOTED

SHEET NO.:



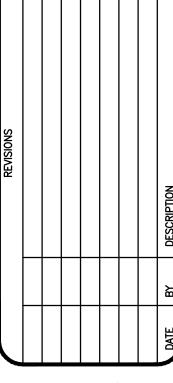
1 THEATER ELECTRICAL PLAN

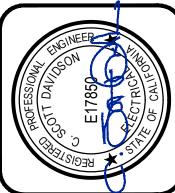
SCALE: 1/8"=1'-0



KEYNOTES 🔿

- 1. EXISTING DISTRIBUTION PANEL 'EP'.
- 2. REMOVE EXISTING DIMMER RACK AND DELIVER TO OWNER. REMOVE EXISTING LIGHTING CROSS—CONNECT CABINETS. PROVIDE (2) NEW 54—CIRCUIT PANELBOARDS. SEE POWER SINGLE LINE DIAGRAM.
- 3. REMOVE EXISTING STAGE PIN CONNECTOR, COVER, AND CONDUCTORS. PROVIDE NEW QUAD OUTLET INSIDE EXISTING HOUSING. PROVIDE APPROX. 8"x16" CUSTOM PLATE SURROUND IN WHITE POWDER COAT TO MATCH ADJACENT SURFACES.
- 4. REMOVE EXISTING STAGE PIN CONNECTOR, COVER, AND CONDUCTORS. PROVIDE APPROX. 8"x16" CUSTOM PLATE SURROUND IN WHITE POWDER COAT TO MATCH EXISTING ADJACENT SURFACES AND BLANK OFF EXISTING HOUSING.
- 5. VERIFY EXACT LOCATIONS OF SPEAKER OUTLETS AND LIGHTING OUTLETS.
- 6. INSTALL POWER OUTLET ADJACENT TO DISTRIBUTOR/BOOSTER.
- 7. DEVICES IN THIS AREA TO BE MOUNTED TO BOTTOM OF CEILING.
- 8. DASHED LINE INDICATED 1-HOUR RATED WALL ASSEMBLY. PROVIDE PENETRATIONS THROUGH ASSEMBLY PER RATED WALL PENETRATION DETAIL, SHEET E-1.
- 9. INSTALL DEVICE FLUSH IN CEILING.
- 10. INSTALL PROJECTOR POWER AND VIDEO OUTLETS AT FACE OF SOFFIT, BELOW SOUND BOOTH. RUN HDMI VIDEO FROM OUTLET AT PROJECTOR TO SOUND BOOTH AND INSTALL JACKS AT EACH END. VERIFY LOCATION WITH MUSD.





ardin-Davidson Engineering
S6 Pollasky Ave., Suite 200
Clovis, CA 93612





ND UPGRADES:
ED SCHOOL DISTRICT

We. ELECTRICAL PLAN

DATE: 03/20/19
PROJECT NO.:

19045 NG.: S. DAVIDSON

S. DAVIDSON

SCALE:

AS NOTED

SHEET NO.:

PANEL "ESL" SCHEDULE 120/208V 3Ф 4W INDOOR / SURFACE DESCRIPTION DESCRIPTION AMPS POLE(S) NO. AMPS POLE(S) 1 FRONT OF HOUSE LIGHTS - BACK ROW 2400 20 1 STAGE LIGHTS - BATTEN 1 3 FRONT OF HOUSE LIGHTS - BACK ROW 2400 B 2400 20 1 STAGE LIGHTS - BATTEN 1 5 FRONT OF HOUSE LIGHTS - BACK ROW 2400 C 2400 20 1 STAGE LIGHTS - BATTEN 1 6 20 | 1 2400 20 1 STAGE LIGHTS - BATTEN 1 8 7 FRONT OF HOUSE LIGHTS - FRONT ROW 20 1 2400 A 10 9 FRONT OF HOUSE LIGHTS - FRONT ROW 2400 20 1 STAGE LIGHTS - BATTEN 1 2400 B 12 11 FRONT OF HOUSE LIGHTS - FRONT ROW 2400 20 1 STAGE LIGHTS - BATTEN 2 2400 20 | 1 14 13 | FRONT OF HOUSE LIGHTS - DOWNSTAGE SOFFIT | 20 | 1 2400 A 2400 20 1 STAGE LIGHTS - BATTEN 2 15 FRONT OF HOUSE LIGHTS - DOWNSTAGE SOFFIT 2400 20 1 STAGE LIGHTS - BATTEN 2 17 FRONT OF HOUSE LIGHTS - DOWNSTAGE SOFFIT | 20 | 1 18 2400 C 2400 20 1 STAGE LIGHTS - BATTEN 2 19 | FRONT OF HOUSE LIGHTS - DOWNSTAGE SOFFIT | 2400 A 2400 20 1 STAGE LIGHTS - BATTEN 2 22 21 FRONT OF HOUSE LIGHTS - DOWNSTAGE SOFFIT 2400 20 1 STAGE LIGHTS - BATTEN 3 23 FRONT OF HOUSE LIGHTS - RIGHT APRON 24 2400 C 2400 20 1 STAGE LIGHTS - BATTEN 3 25 FRONT OF HOUSE LIGHTS - LEFT APRON 20 1 2400 A 2400 20 1 STAGE LIGHTS - BATTEN 3 27 SPARE 2400 20 1 STAGE LIGHTS - BATTEN 3 29 SPARE 2400 20 1 STAGE LIGHTS - BATTEN 3 32 31 SPARE 2400 20 1 STAGE LIGHTS - BATTEN 4 20 | 1 | A | 33 SPARE 2400 20 1 STAGE LIGHTS - BATTEN 4 36 35 SPARE 20 1 2400 20 1 STAGE LIGHTS - BATTEN 4 38 37 SPARE 2400 20 1 STAGE LIGHTS - BATTEN 4 20 | 1 39 SPARE 40 20 1 2400 20 1 STAGE LIGHTS - BATTEN 4 41 SPARE 20 1 2400 20 1 STAGE LIGHTS - BATTEN 5 42 44 43 SPARE 20 | 1 A 2400 20 1 STAGE LIGHTS - BATTEN 5 45 SPARE 2400 20 1 STAGE LIGHTS - BATTEN 5 47 SPARE 2400 20 1 STAGE LIGHTS - BATTEN 5 48 50 52 49 PANEL 'ESS 150 3 2400 20 1 STAGE LIGHTS - BATTEN 5 51 -----2400 20 1 STAGE LIGHTS - BACK WALL 6600 B 54 5600 C 20 1 SPARE Φ A 33600 VA LOAD SUMMARY: 400A CU BUSING: Φ B 37800 VA **LUGS ONLY** MAIN: Φ C 34400 VA 65,000A FULLY RATED

GE A-SERIES LIGHTING PANELBOARD

PANEL SCHEDULES

PANEL "ESS" SCHEDULE			120/208V 3Ф 4W						INDOOR/SURFACE	
СКТ.	DESCRIPTION	BREAKER		VA	Ф	VA	BREAKER		DESCRIPTION	СКТ
NO.	DESCRIPTION	AMPS	POLE(S)	VA	Ψ	VA	AMPS	POLE(S)	DESCRIPTION	NO.
1	I.G. OUTLET - MIXING BOOTH LEFT	20	1	1500	Α	150	20	1	OUTLETS - DMX DISTRIBUTION/BOOSTERS	2
3	I.G. OUTLET - MIXING BOOTH RIGHT	20	1	1500	В	1600	20	2	OUTLET - PROJECTOR	4
5	I.G. OUTLET - APRON LEFT	20	1	1500	С	1600				6
7	I.G. OUTLET - APRON RIGHT	20	1	1500	Α		20	1	SPARE	8
9	I.G. OUTLET - STAGE CEILING	20	1	1500	В		20	1	SPARE	10
11	I.G. OUTLET - STAGE CEILING	20	1	1500	С		20	1	SPARE	12
13	I.G. OUTLET - STAGE CEILING	20	1	1500	Α		20	1	SPARE	14
15	I.G. OUTLET - STAGE CEILING	20	1	1500	В		20	1	SPARE	16
17	I.G. OUTLET - STAGE FRONT	20	1	500	С		20	1	SPARE	18
19	I.G. OUTLET - STAGE BACK	20	1	500	Α		20	1	SPARE	20
21	I.G. OUTLET - STAGE BACK	20	1	500	В		20	1	SPARE	22
23	I.G. OUTLET - DRESSING ROOM	20	1	500	С		20	1	SPARE	24
25	SPACE ONLY				Α				SPACE ONLY	26
27	SPACE ONLY				В				SPACE ONLY	28
29	SPACE ONLY				С				SPACE ONLY	30
31	SPACE ONLY				Α				SPACE ONLY	32
33	SPACE ONLY				В				SPACE ONLY	34
35	SPACE ONLY				С				SPACE ONLY	36
37	SPACE ONLY				Α				SPACE ONLY	38
39	SPACE ONLY				В				SPACE ONLY	40
41	SPACE ONLY				С				SPACE ONLY	42
	LOAD SUMMARY:		ΦА	5150	VA		BUSING:		200A CU	
			ΦВ	6600	VA		MAIN:		LUGS ONLY	
			ΦС	5600	VA	SCCR			65,000A FULLY RATED	
	CONNECTED LOAD:			17.4 kVA					GE A-SERIES PANELBOARD	
	MAX CURRENT:			55	Α					

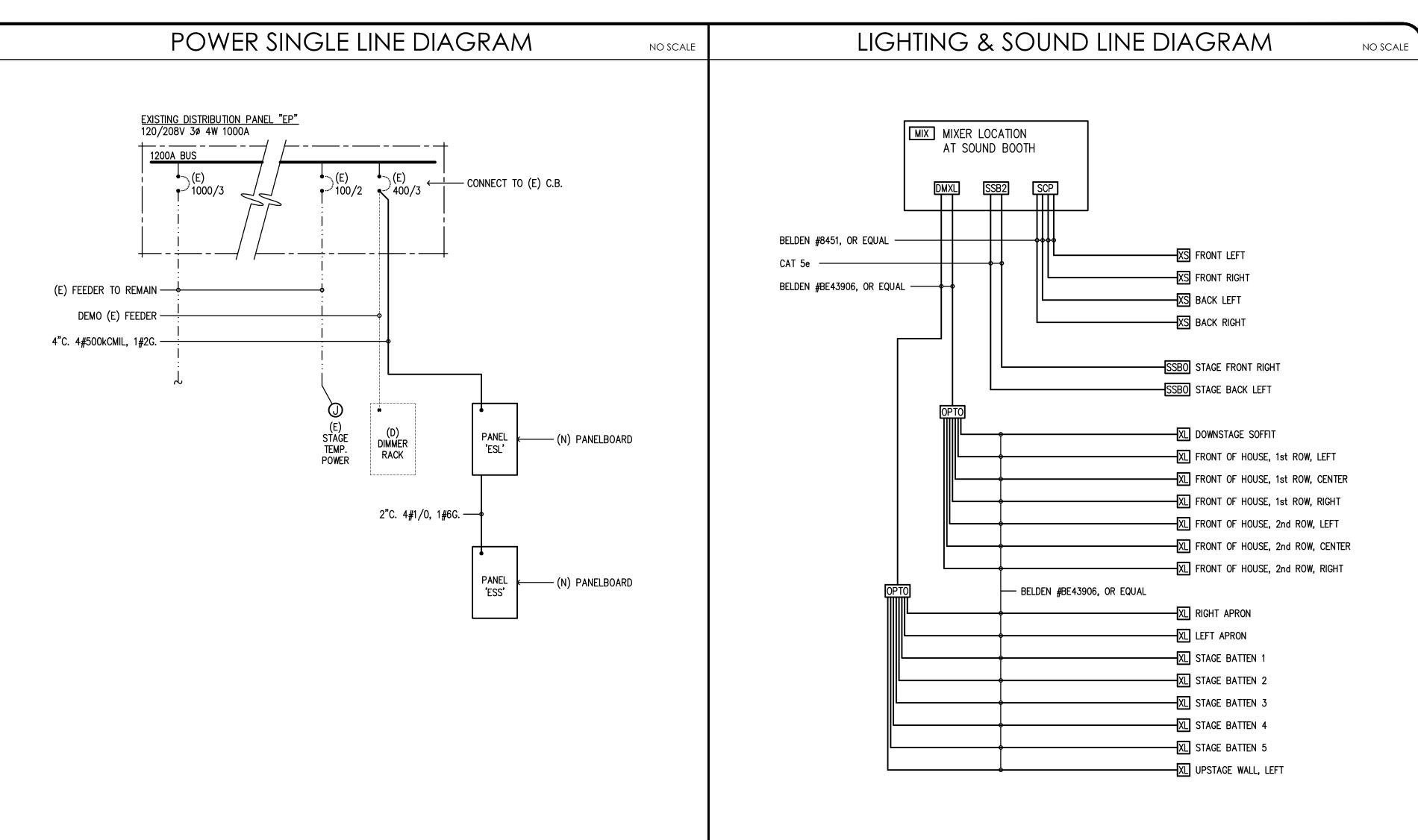
105.8 kVA

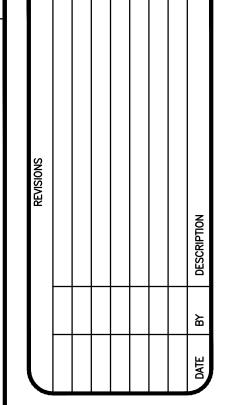
315 A

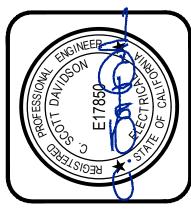
TYPE:

CONNECTED LOAD:

MAX CURRENT:







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