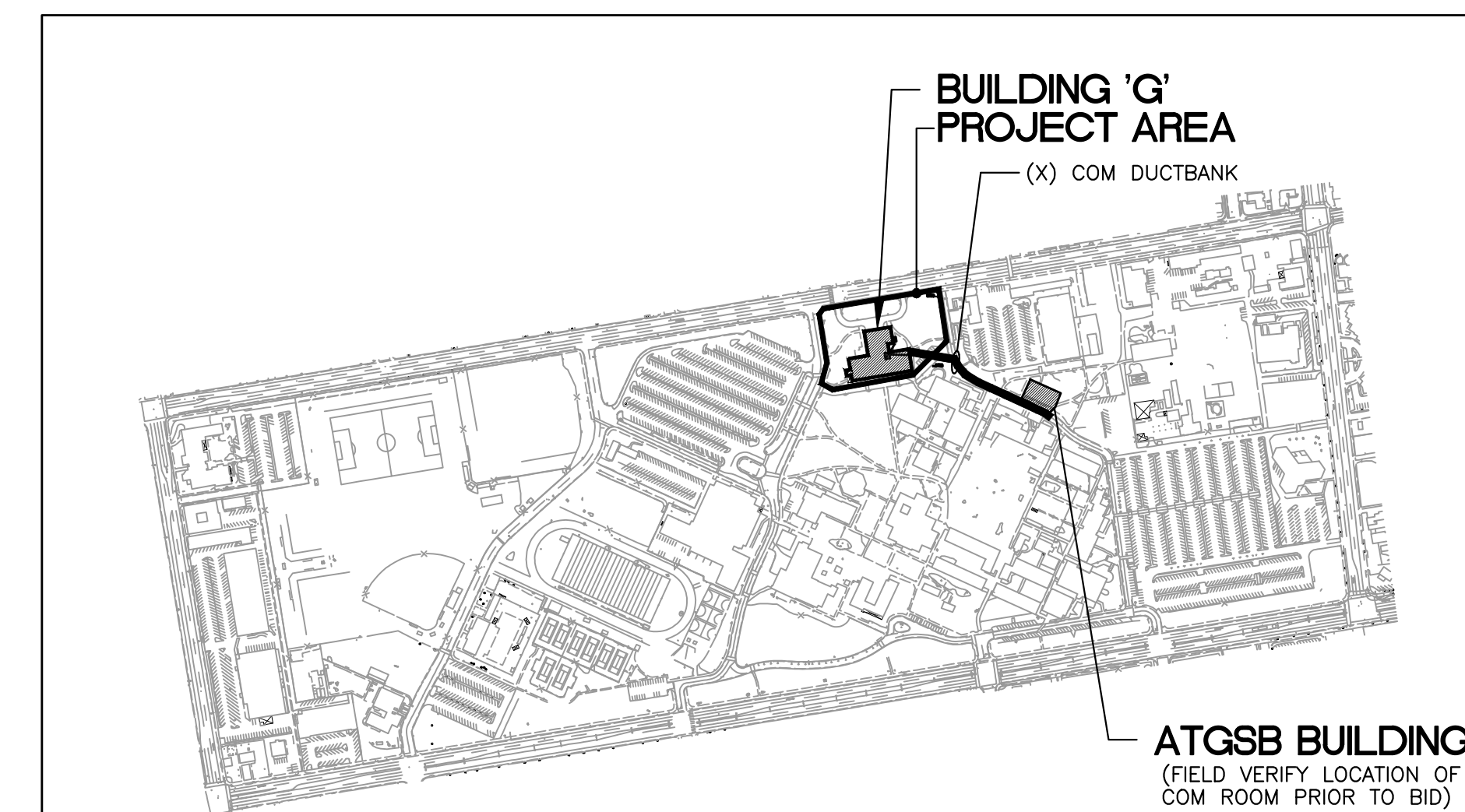
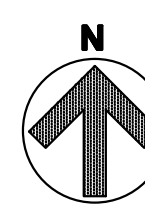
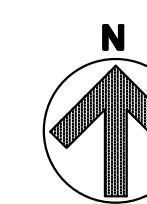


ELECTRICAL SITE ELECTRICAL PLAN 1
 SCALE: 1"=30'-0" E1.1



KEY PLAN



SHEET NOTES:

1. VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL PLANS.
2. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID. ROUGH-IN AND INSTALLATION.
3. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UNDERGROUND UTILITY SYSTEMS IN PLACE. CONTRACTOR SHALL REPAIR ANY UTILITY SYSTEM DAMAGED DURING CONSTRUCTION.
4. VERIFY LOCATION OF ALL EQUIPMENT AND DEVICES ON ARCHITECTURAL AND CIVIL PLANS.
5. MINIMUM CONDUIT BURIAL DEPTH SHALL BE 36".
6. CONTRACTOR TO PROVIDE GROUND CONDUCTORS IN ALL CONDUITS.
7. 1" CONDUIT MINIMUM UNDERGROUND.
8. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
9. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.

KEY NOTES:

- ① EXISTING 5KV FEEDER - REPLACE 5KV CONDUCTORS PER E2.0 - CONNECT FEEDER WITH NEW 800A LOAD BREAK J ELBOW CONNECTOR IN EXISTING POWER MANHOLE #2 TO EXISTING CIRCUITS. SCHEDULE OUTAGE ON PREMIUM TIME.
- ② PROVIDE NEW COMMUNICATIONS CABLING PER RISER DIAGRAM - 50 PAIR CAT 5 PEB9 GEL FILLED CABLE VIA 3M M10 SPLICE IN MH #2. TO PRE-EXISTING PREFORMED SPLICE CASE - PAIR SEQUENCE TO BE VERIFIED WITH COLLEGE IT DEPARTMENT. (THERE IS AN EXISTING 100PAIR CABLE WHICH NEEDS TO BE REMOVED AFTER ACTIVATION OF 50 PAIR). CONTRACTOR TO REMOVE (X) 50 PAIR TO PROVIDE SPARE CONDUIT FOR NEW 50 PAIR COORDINATE WITH LOCAL IT STAFF) FROM BUILDING 'G' IT ROOM TO OPC (GENERAL PURPOSE CLASSROOM) IN ATGSB COMPLEX BACKBOARD IN EXISTING CONDUIT PATHWAY. PROVIDE CAT5E AND OPTICAL FIBER FIRE ALARM CABLE PER FIRE ALARM RISER TO CONNECT TO CAMPUS F. A. NETWORK. PROVIDE AND INSTALL 24MM/125M 50 MICRON OPTICAL FIBER UG RATED FROM ATGSB BUILDING TO BUILDING 'G' MDF. PROTECT IN PLACE FIBER TO OTHER BUILDINGS.
- ③ MULTIPLE CONDUITS AND FEEDERS FOR POWER AND COMMUNICATION PER E2.0 AND COM PLANS.



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 Modernization

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client:

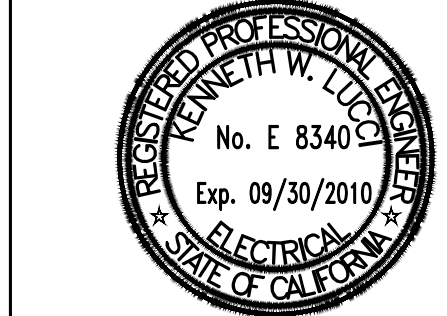
Ventura County
 Community
 College District

255 W. Stanley Ave, Suite 250
 Ventura, CA 93001

consultant:

LDON & ASSOCIATES INC.
 CONSULTING ELECTRICAL ENGINEERS
 5500 COSTA MESA RD., #411
 CARLSBAD, CA 92008-6004
 (602) 589-6230 FAX (602) 589-6259
 Web Site: http://www.lendon.com

seal:



dsa: 03-112306

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 FILE NUMBER: 58-C1
 APPL. 03-112306
 AC. FLS. SS.
 DATE

the original size of this drawing is 30" x 42"

Submissions / Revisions

red by: _____ chkd by: _____

print date: 09/20/2010

sheet title:
ELECTRICAL SITE PLAN

E1.1

CERTIFICATE OF COMPLIANCE (Part 1 of 4) LTG-1-C

PROJECT NAME: Ventura County Community College District DATE: 09-07-08
PROJECT ADDRESS: 4667 TELEGRAPH RD, VENTURA, CA 93003
PRINCIPAL DESIGNER/LIGHTING: KEN LUCCI
GENERAL INFORMATION: BUILDING CONDITIONED FLOOR AREA: 81,744 sq ft CLIMATE ZONE: 6

CERTIFICATE OF COMPLIANCE STATEMENT OF COMPLIANCE

PERFORMANCE: COMPLETE BUILDING: AREA CATEGORY: TAILORED COMMON LIGHTING
This Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations.

DOCUMENTATION AUTHOR: KEN LUCCI DATE: 09-07-08
The Principal Lighting Designer hereby certifies that the proposed lighting system represented in this set of construction documents is consistent with the other compliance forms and schedules with the specifications, and with all other calculations submitted with this permit application.

PRINCIPAL LIGHTING DESIGNER NAME: KEN LUCCI DATE: 09-07-08 LIC #: 81649
I certify that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Section 6507, 6508 and 6571.1.

LIGHTING MANDATORY MEASURES: Indicate location on plans of Note Block for Mandatory Measure
LIGHTING COMPLIANCE FORMS & WORKSHEET (check box if worksheet is included)

Table with columns for compliance forms: LTGC-1-C, LTGC-2-C, LTGC-3-C, LTGC-4-C, LTGC-5-C, LTGC-6-C, LTGC-7-C, LTGC-8-C, LTGC-9-C.

CERTIFICATE OF COMPLIANCE (Part 2 of 4) LTG-1-C

PROJECT NAME: Ventura County Community College District DATE: 09-07-08
CONTROL FOR CREDIT IN CONDITIONED AND UNCONDITIONED SPACES
CONTROL LOCATION, CONTROL IDENTIFICATION, CONTROL TYPE, LUMINAIRE CONTROLLED, NOTE TO FIELD

ALLOWED INTERIOR LIGHTING POWER FOR CONDITIONED SPACES

PERFORMANCE METHOD: COMPLETE BUILDING METHOD (From LTG-5-C)
AREA CATEGORY METHOD (From LTG-6-C)
TAILORED METHOD (From LTG-6-C)

ALTERNATE COMPLIANCE: PERFORMANCE METHOD, COMMON LIGHTING SYSTEM (From LTG-8-C)

MANDATORY LIGHTING MEASURES FOR INTERIOR LIGHTING AND DAYLIGHT AREAS

Table with columns: CONTROL LOCATION, CONTROL IDENTIFICATION, CONTROL TYPE, SPACE CONTROLLED, If Control is Daylighting, NOTE TO FIELD

CERTIFICATE OF COMPLIANCE (Part 3 of 4) LTG-1-C

PROJECT NAME: Ventura County Community College District DATE: 09-07-08
CONTROL FOR CREDIT IN CONDITIONED AND UNCONDITIONED SPACES

Table with columns: CONTROL LOCATION, CONTROL IDENTIFICATION, CONTROL TYPE, LUMINAIRE CONTROLLED, NOTE TO FIELD

CERTIFICATE OF COMPLIANCE (Part 4 of 4) LTG-1-C

PROJECT NAME: Ventura County Community College District DATE: 09-07-08
DESIGNER: This form is to be used by the designer and attached to the plans. Listed below are all the acceptance test for lighting systems.

Building Departments: System Acceptance

System Acceptance: Before an occupancy permit is granted for a newly constructed building or space, all control devices serving the building of space shall be certified as meeting the Acceptance Requirements for Code Compliance.

Test Description: Test Performed By: LTG-2-A Lighting Control Acceptance Document

Equipment requiring acceptance testing: Occupancy Sensor Acceptance, Manual Daylight Control Acceptance, Automatic Time Switch Control Acceptance

Equipment requiring acceptance testing: LTG-3-A Automatic Daylighting Controls Acceptance Document

Table with columns: Equipment requiring acceptance testing, Test Description, Test Performed By

CERTIFICATE OF COMPLIANCE (Part 1 of 2) LTG-2-C

Table with columns: Luminaire, Lamp/Ballasts, Installed Watts

ALLOWED LIGHTING POWER (Choose One Method)

COMPLETE BUILDING METHOD - CONDITIONED SPACES: BUILDING CATEGORY (From 146-B), WATTS PER (B²), COMPLETE BLDG. AREA, ALLOWED WATTS

AREA CATEGORY METHOD - UNCONDITIONED SPACES: BUILDING CATEGORY (From 146-C), WATTS PER (B²), AREA (B²), ALLOWED WATTS

TAILORED METHOD - CONDITIONED SPACES: TOTAL ALLOWED WATTS (From LTG-6-C)

UNCONDITIONED SPACES: Complete Building and Area Category Methods CATEGORY (From 146-B & C), WATTS PER (B²), AREA (B²), ALLOWED WATTS

TAILORED METHOD - UNCONDITIONED SPACES: TOTAL UNCONDITIONED SPACES ALLOWED WATTS (From LTG-6-C and LTG-6-C)

Table with columns: SPACE NAME, SPACE AREA, LUMINAIRE TYPE OR CODE, LUMINAIRE POWER, CEC DEFAULT %

CERTIFICATE OF COMPLIANCE (Part 2 of 2) LTG-2-C

Table with columns: Luminaire, Lamp/Ballasts, Installed Watts

ALLOWED LIGHTING POWER (Choose One Method)

COMPLETE BUILDING METHOD - CONDITIONED SPACES: BUILDING CATEGORY (From 146-B), WATTS PER (B²), COMPLETE BLDG. AREA, ALLOWED WATTS

AREA CATEGORY METHOD - UNCONDITIONED SPACES: BUILDING CATEGORY (From 146-C), WATTS PER (B²), AREA (B²), ALLOWED WATTS

TAILORED METHOD - CONDITIONED SPACES: TOTAL ALLOWED WATTS (From LTG-6-C)

UNCONDITIONED SPACES: Complete Building and Area Category Methods CATEGORY (From 146-B & C), WATTS PER (B²), AREA (B²), ALLOWED WATTS

TAILORED METHOD - UNCONDITIONED SPACES: TOTAL UNCONDITIONED SPACES ALLOWED WATTS (From LTG-6-C and LTG-6-C)

Table with columns: SPACE NAME, SPACE AREA, LUMINAIRE TYPE OR CODE, LUMINAIRE POWER, CEC DEFAULT %

PORTABLE LIGHTING WORKSHEET LTG-3-C

Table 1 - PORTABLE LIGHTING NOT SHOWN ON PLANS FOR OFFICE AREA > 250 SQUARE FEET

TABLE 2 - PORTABLE LIGHTING SHOWN ON PLANS FOR OFFICE AREA > 250 SQUARE FEET

Table with columns: ROOM # OR ZONE ID, PORTABLE LIGHTING DESCRIPTIONS PER TASK AREA, LUMINAIRE(S) WATTS PER TASK AREA, TASK AREA (B²), NUMBER OF TASK AREAS, TOTAL AREA (D x E), TOTAL WATTS (C x D)

TABLE 2 - PLANS SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE AREA > 250 SQUARE FEET

Table with columns: ROOM # OR ZONE ID, TOTAL AREA (D x E), Designer needs to provide detailed documentation that the lighting level provided by the overhead lighting meets the needs of the space.

LIGHTING CONTROL CREDIT WORKSHEET (Part 1 of 2) LTG-4-C

Table with columns: ROOM # ZONE ID, LIGHTING CONTROL DESCRIPTION, PLAN REFERENCE, ROOM AREA (B²), DAYLIGHTING: WINDOW WALL RATIO, GLAZING ALT, SKYLIGHT EFFECTIVE APERTURE, WATTS OF CONTROL LIGHTING, LIGHTING ADJUSTMENT FACTOR, CONTROL CREDIT WATTS (B x C)

Table with columns: ROOM # ZONE ID, LIGHTING CONTROL DESCRIPTION, PLAN REFERENCE, ROOM AREA (B²), DAYLIGHTING: WINDOW WALL RATIO, GLAZING ALT, SKYLIGHT EFFECTIVE APERTURE, WATTS OF CONTROL LIGHTING, LIGHTING ADJUSTMENT FACTOR, CONTROL CREDIT WATTS (B x C)

INTERIOR LIGHTING POWER ALLOWANCE LTG-5-C

Table with columns: COMPLETE BUILDING METHOD - CONDITIONED SPACES: BUILDING CATEGORY (From 146-B), WATTS PER (B²), COMPLETE BLDG. AREA, ALLOWED WATTS

AREA CATEGORY METHOD - UNCONDITIONED SPACES

Table with columns: BUILDING CATEGORY (From 146-C), WATTS PER (B²), AREA (B²), ALLOWED WATTS

TAILORED METHOD - CONDITIONED SPACES

Table with columns: UNCONDITIONED SPACES: Complete Building and Area Category Methods CATEGORY (From 146-B & C), WATTS PER (B²), AREA (B²), ALLOWED WATTS

COMMON LIGHTING SYSTEM METHOD LTG-8-C

Table with columns: SPACE NAME, SPACE AREA, LUMINAIRE TYPE OR CODE, LUMINAIRE POWER, CEC DEFAULT %

Table with columns: SPACE NAME, SPACE AREA, LUMINAIRE TYPE OR CODE, LUMINAIRE POWER, CEC DEFAULT %

LIGHTING MANDATORY MEASURES

- BUILDING LIGHTING SHUT-OFF: THE BUILDING LIGHTING SHUT-OFF SYSTEM CONSISTS OF AN AUTOMATIC TIME SWITCH, WITH A ZONE FOR EACH FLOOR.
AUTOMATIC CONTROL DEVICES CERTIFIED: ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED.
FLUORESCENT BALLAST AND LUMINAIRES CERTIFIED: ALL FLUORESCENT FIXTURES SPECIFIED FOR THE PROJECT ARE CERTIFIED AND LISTED IN THE DIRECTORY.
TANDEM WIRING FOR TWO-LAMP BALLAST'S: ALL ONE AND THREE LAMP FLUORESCENT FIXTURES ARE TANDEM WIRED WITH TWO (2) LAMP BALLASTS...



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Ventura College Theater, Bldg G Modernization

4667 Telegraph Rd. Ventura, CA 93003

client:

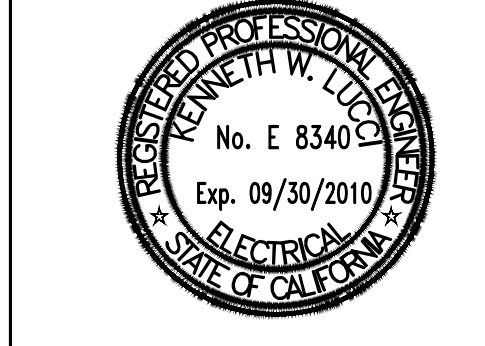
Ventura County Community College District

255 W. Stanley Ave, Suite 250 Ventura, CA 93001

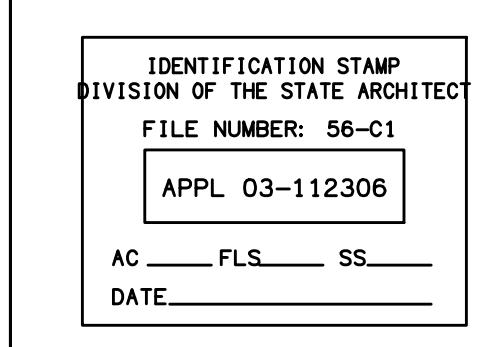
consultant:



seal:



dsa: 03-112306



the original size of this drawing is 30" x 42"

Submissions / Revisions

Table with columns for Submissions / Revisions

cad by: (9/20/2010) chd by:

print date: (9/20/2010)

sheet title: TITLE 24 INDOOR LIGHTING CALCULATION

E1.2

LIGHTING COMPLIANCE SUMMARY (Part 1 of 4) OLTG-2-C														
PROJECT NAME Ventura County Community College District											DATE 09-07-08			
LIGHTING POWER ALLOWANCES - GENERAL SITE ILLUMINATION - (Table 147-A)														
A	Allotted Watts				Luminaire			Lamps / Ballasts			Installed Watts			
	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Lighting Applications Category (Table 147 A)	Area (ft ²) or Length (L-F)	Area LFD Width or L-F	Allowed Watts (B x C)	Code for Luminaire Type	Description	Output Designation	Lamp Type	Number of Lamps per Luminaire	Ballast per Luminaire	Number of Ballast per Luminaire	Watts per Luminaire	CEC Adjustment	Number of Luminaires	Installed Watts (L x M)
HARDSCAPE FOR VEHICLE	12500	.21	2625	NOTE	POLE LIGHT	R3	MH	1	250	1	270		5	1850
PATHWAY	3375	.17	580	NOTE	DOWN LIGHT	R3	FL	2	26	2	55		24	1320
TOTAL ALLOTTED WATTS			3205									TOTAL INSTALLED WATTS		3170

2005 Nonresidential Compliance Forms

April 2005



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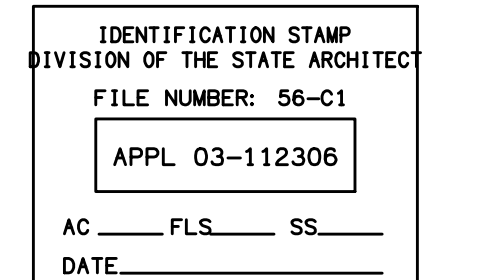
LUCCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3667 COFFEE WALPAD, #601
CARMELITA, CA 95006-8006
(805) 389-6630 FAX (805) 389-6619
Web Site: http://www.lucceee.com

PROJECT PURPOSE: This project was prepared for the owner's use only and the Engineer does not warrant its accuracy, completeness or reliability. The Engineer's liability is limited to the amount of the fee received by the Engineer for the preparation of the drawings. The Engineer is not responsible for any errors or omissions in the drawings. The Engineer is not responsible for any claims or damages of any kind resulting from the use of the drawings. The Engineer is not responsible for any claims or damages of any kind resulting from the use of the drawings.

seal:



dsa: 03-112306



the original size of this drawing is 30" x 42"

Submissions / Revisions

NO.	DATE	DESCRIPTION

print date: 09/20/2010

sheet title:
TITLE 24 OUTDOOR LIGHTING CALCULATION

E1.3

CERTIFICATE OF COMPLIANCE (Part 1 of 2) OLTG-1-C					
PROJECT NAME Ventura County Community College District					DATE 09-07-08
PROJECT ADDRESS 4667 TELEGRAPH RD. VENTURA, CA 93003					
PRINCIPAL DESIGNER/LIGHTING KEN LUCCI			TELEPHONE 805.389.6520		Building Permit
DOCUMENTATION AUTHOR KEN LUCCI			TELEPHONE 805.389.6520		Checked by/Date Enforcement Agency Use
GENERAL INFORMATION					
DATE OF PLANS		OUTDOOR LIGHTING ZONE (✓ One) <input type="checkbox"/> LZ1 <input type="checkbox"/> LZ2 <input type="checkbox"/> LZ3 <input type="checkbox"/> LZ4			
FUNCTION TYPE		<input checked="" type="checkbox"/> OUTDOOR LIGHTING <input checked="" type="checkbox"/> OUTDOOR SIGNS <input type="checkbox"/> INDOOR SIGNS			
PHASE OF CONSTRUCTION		<input checked="" type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> ADDITION <input type="checkbox"/> ALTERATION			
STATEMENT OF COMPLIANCE					
This Certificate of Compliance lists outdoor lighting system specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building lighting requirements.					
The documentation preparer hereby certifies that the documentation is accurate and complete.					
DOCUMENTATION AUTHOR KEN LUCCI		SIGNATURE <i>Ken Lucci</i>			DATE 09-07-08
The Principal Lighting Designer hereby certifies that the proposed outdoor lighting and signs design represented in this set of construction documents is consistent with the other compliance forms and worksheets, without specification, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the lighting requirements contained in the applicable parts of Sections 110, 119, 130, through 132, and 146 and 149 of Title 24, Part 6. Please ✓ one.					
<input checked="" type="checkbox"/> I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am licensed in the State of California as a civil engineer or electrical engineer, or I am a licensed architect.					
<input type="checkbox"/> I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by Section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation, and that I am a licensed contractor performing this work.					
<input type="checkbox"/> I affirm that I am eligible under the provision of Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1					
(These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)					
PRINCIPAL LIGHTING DESIGNER-NAME KEN LUCCI		SIGNATURE <i>Ken Lucci</i>		DATE 09-07-08	LIC.# E66340
INSTRUCTIONS TO APPLICANT OUTDOOR LIGHTING COMPLIANCE & WORKSHEET (✓ box if worksheet is included)					
For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual Published by the California Energy Commission.					
<input type="checkbox"/> OLTG-1-C		Certificate of Compliance. Required on plans for all submittals for outdoor lighting. Part 2 of 2 may be incorporated in the schedules on the plans.			
<input type="checkbox"/> OLTG-2-C		Either LTG-1-C or OLTG-1-C may be used for signs as follows: 1. Use LTG-1-C if the project consists solely of indoor signs 2. Use LTG-1-C if the project consists of indoor lighting, and outdoor or indoor signs, but no other outdoor lighting 3. Use OLTG-1-C if the project consists solely of outdoor signs 4. Use OLTG-1-C if the project consists of outdoor lighting, and indoor or outdoor signs, but no other indoor lighting			
<input type="checkbox"/> OLTG-2-C		LIGHTING COMPLIANCE SUMMARY. Applicable Parts required for ALL outdoor lighting allowances. (Except for Signs)			
<input type="checkbox"/> OLTG-3-C		AREA CALCULATIONS WORKSHEETS. Applicable Parts required for ALL outdoor area calculations.			
<input type="checkbox"/> OLTG-4-C		SIGN LIGHTING COMPLIANCE. Required for all internally and externally illuminated signs, for both indoor and outdoor signs.			

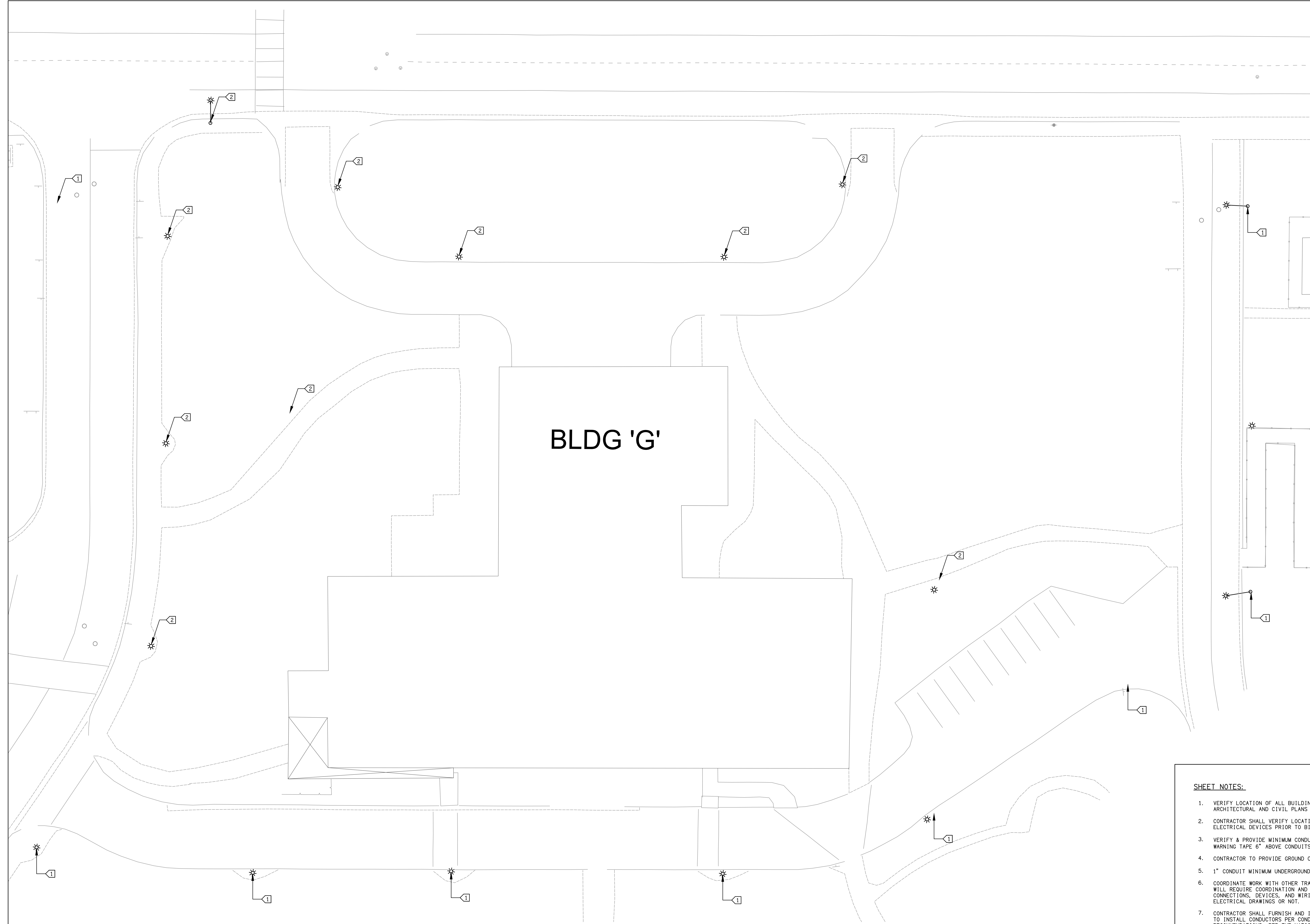
2005 Nonresidential Compliance Forms

April 2005

CERTIFICATE OF COMPLIANCE (Part 2 of 2) OLTG-1-C					
PROJECT NAME Ventura County Community College District					DATE 09-07-08
LIGHTING SCHEDULES ON PLANS SHOW THAT OUTDOOR LIGHTING MEETS ALLOWED LIGHTING POWER					
<input checked="" type="checkbox"/> Lighting power allowance for general site illumination on OLTG-2-C Part 1 of 4					
<input type="checkbox"/> Not Applicable					
<input type="checkbox"/> Lighting power allowance for local ordinances or for security multipliers on OLTG-2-C Part 2 of 4					
<input type="checkbox"/> Not Applicable					
<input type="checkbox"/> Lighting power allowance for specific applications, other than vehicle service stations with canopies on OLTG-2-C Part 3 of 4					
<input type="checkbox"/> Not Applicable					
<input type="checkbox"/> Lighting power allowance for vehicle service station with canopies on OLTG-2-C Part 4 of 4					
<input checked="" type="checkbox"/> Not Applicable					
<input type="checkbox"/> Sign lighting compliance on OLTG-4-C					
<input checked="" type="checkbox"/> Not Applicable					
MANDATORY MEASURES ON THE SHOW THAT OUTDOOR LIGHTING MEETS OUTDOOR LIGHTING CONTROLS AND EQUIPMENT					
Indicate location on plans of Note Block for mandatory Measure					
<input checked="" type="checkbox"/> Installed lighting power has been determined in accordance with § 130(c)1					
<input type="checkbox"/> Not Applicable					
<input checked="" type="checkbox"/> All permanently installed luminaires with lamps rated over 100 watts either have a lamp efficacy of at least 60 lumens per watt or are controlled by a motion sensor § 132(a)					
<input type="checkbox"/> Not Applicable					
<input checked="" type="checkbox"/> All luminaires with lamps rated greater than 175 watts in hardscape areas, including parking lots, building entrances, canopies, and all outdoor sales areas meet the Cutoff Requirements of § 132(b)					
<input type="checkbox"/> Not Applicable					
<input checked="" type="checkbox"/> All permanently installed outdoor lighting meets the control requirements of § 132(c)1					
<input type="checkbox"/> Not Applicable					
<input checked="" type="checkbox"/> Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-level lighting Requirements of § 132(c)2					
<input type="checkbox"/> Not Applicable					
MANDATORY AUTOMATIC CONTROLS					
CONTROL LOCATION	CONTROL IDENTIFICATION	CONTROL TYPE Auto Time Switch/Photocell, etc.	AREA CONTROLLED	NOTE TO FIELD	
ELECTRICAL ROOM		TIME CLOCK/PHOTOCELL	ALL		

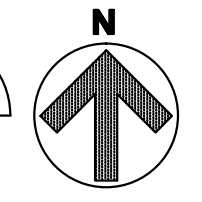
2005 Nonresidential Compliance Forms

April 2005



BLDG 'G'

EXISTING SITE LIGHTING PLAN 1
 SCALE: 1"=15' E1.4



SHEET NOTES:

1. VERIFY LOCATION OF ALL BUILDINGS AND APPENDICES ON ARCHITECTURAL AND CIVIL PLANS AND FIELD VERIFY.
2. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID. ROUGH-IN AND INSTALLATION.
3. VERIFY & PROVIDE MINIMUM CONDUIT BURIAL DEPTH IS 24" AND PROVIDE WARNING TAPE 6" ABOVE CONDUITS.
4. CONTRACTOR TO PROVIDE GROUND CONDUCTORS IN ALL CONDUITS.
5. 1" CONDUIT MINIMUM UNDERGROUND.
6. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
7. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.

KEY NOTES:

- ① REPLACE WITH NEW CAMPUS STANDARD POLE LIGHT FIXTURE 'PPI'. VERIFY VOLTAGE AVAILABLE. PROVIDE NEW POLE BASE PER E6.1 DETAIL 4. PROVIDE ADDITIONAL CONDUIT & CONDUCTORS AS NECESSARY.
- ② EXISTING DEVICE/EQUIPMENT TO BE REMOVED. REMOVE CONDUCTORS AND FEEDER TO LAST ACTIVE DEVICE. IF IT IS NECESSARY FOR A FEEDER TO REMAIN ACTIVE TO PROVIDE POWER FOR OTHER DEVICES, PROVIDE A TRAFFIC RATED CONCRETE PULLBOX (12"x18" FOR INTERFACE PURPOSE) AND PROVIDE SPLICES AS REQUIRED.



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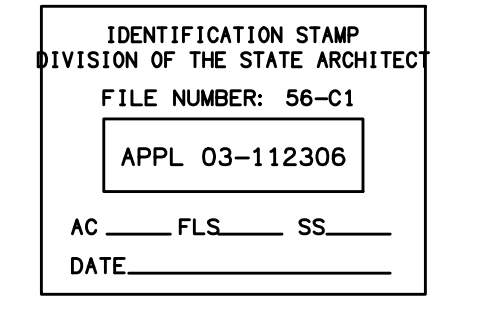
255 W. Stanley Ave, Suite 250
 Ventura, CA 93001

consultant:

LDON & ASSOCIATES INC.
 CONSULTING ELECTRICAL ENGINEERS
 3300 COSTA MESA BLVD, #401
 CARANALTO, CA 92008-9099
 (805) 589-8830 FAX (805) 589-6519
 Web Site: <http://www.ldon.com>



dsa: 03-112306



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Submissions / Revisions

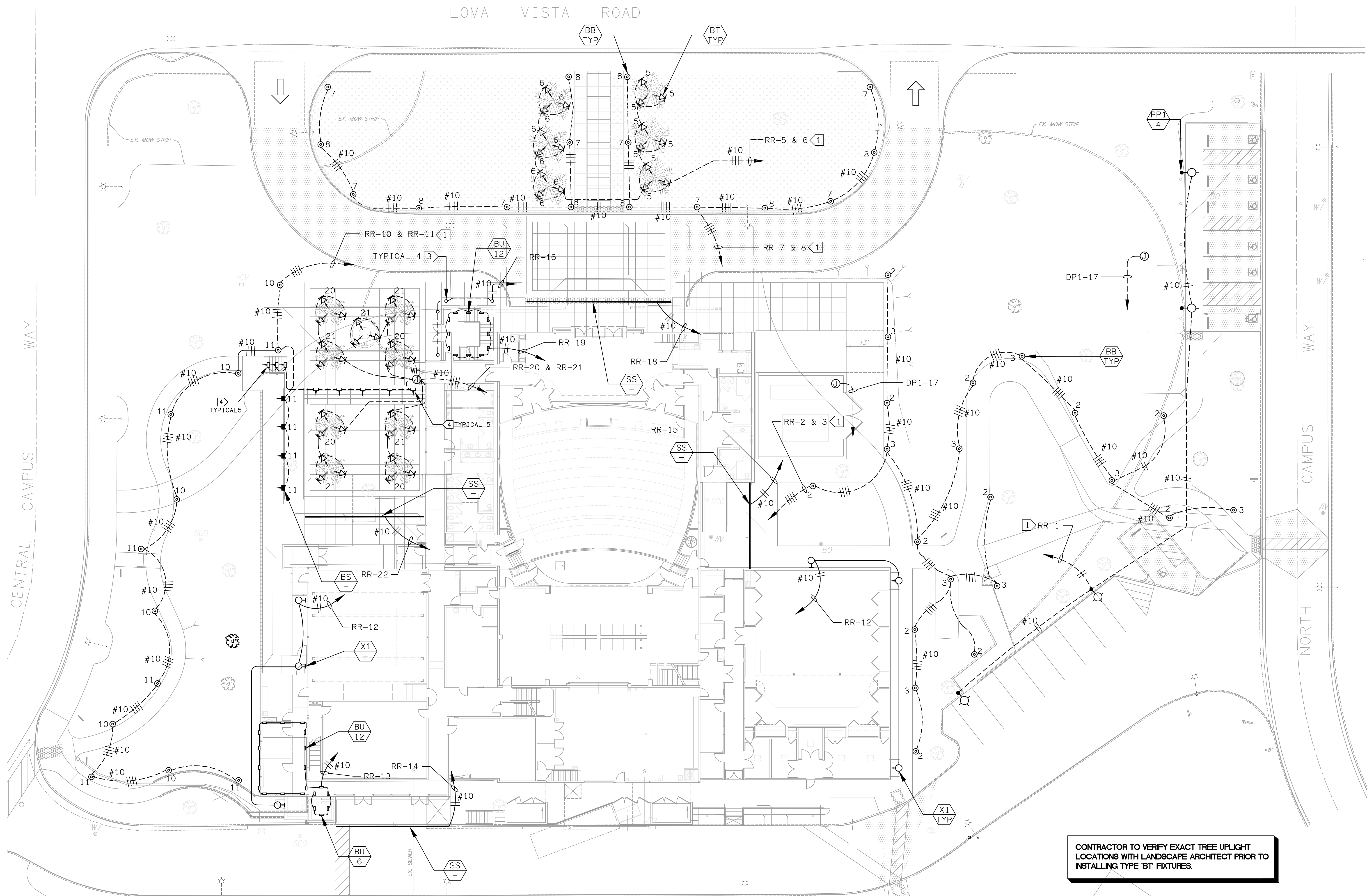
No.	Description	By	Date

cad by: chkd by:
 print date: 09/20/2010

sheet title:
EXISTING SITE LIGHTING PLAN

E1.4

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CONTRACTOR TO VERIFY EXACT TREE UPLIGHT LOCATIONS WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLING TYPE 'BT' FIXTURES.

NEW SITE LIGHTING PLAN 1
SCALE 1"=15' E1.5

SEE RR SCHEDULE ON SHEET E2.2 FOR CIRCUITS AND ASSIGNMENT.

SHEET NOTES:

1. VERIFY LOCATION OF ALL BUILDINGS AND APPENDICES ON ARCHITECTURAL AND CIVIL PLANS.
2. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN AND INSTALLATION.
3. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UNDERGROUND UTILITY SYSTEMS IN PLACE. CONTRACTOR SHALL REPAIR ANY UTILITY SYSTEM DAMAGED DURING CONSTRUCTION.
4. VERIFY LOCATION OF ALL EQUIPMENT AND DEVICES ON ARCHITECTURAL AND CIVIL PLANS.
5. MINIMUM CONDUIT BURIAL DEPTH IS 24" PROVIDE TRACER TAPE OVER ALL NEW CONDUITS.
6. CONTRACTOR TO PROVIDE GROUND CONDUCTORS IN ALL CONDUITS.
7. 1" CONDUIT MINIMUM UNDERGROUND.
8. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
9. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUITS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.

KEY NOTES:

- ① #10 ENTIRE RUN.
- ② CONNECT LANDSCAPE CONTROLLER.
- ③ BEGA #8609HH WELL LIGHT.
- ④ BEGA #2039LED 12W STEP LIGHT, TYPICAL 11.



DAVID BURY & COMPANY ARCHITECTS LTD.

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project:
Ventura College Theater, Bldg G Modernization

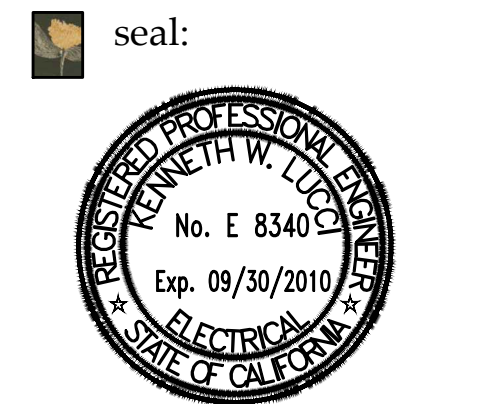
4667 Telegraph Rd.
Ventura, CA 93003

client:
Ventura County Community College District

255 W. Stanley Ave, Suite 250
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consultant:

L.I.J. & ASSOCIATES INC.
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APPL. 03-112306
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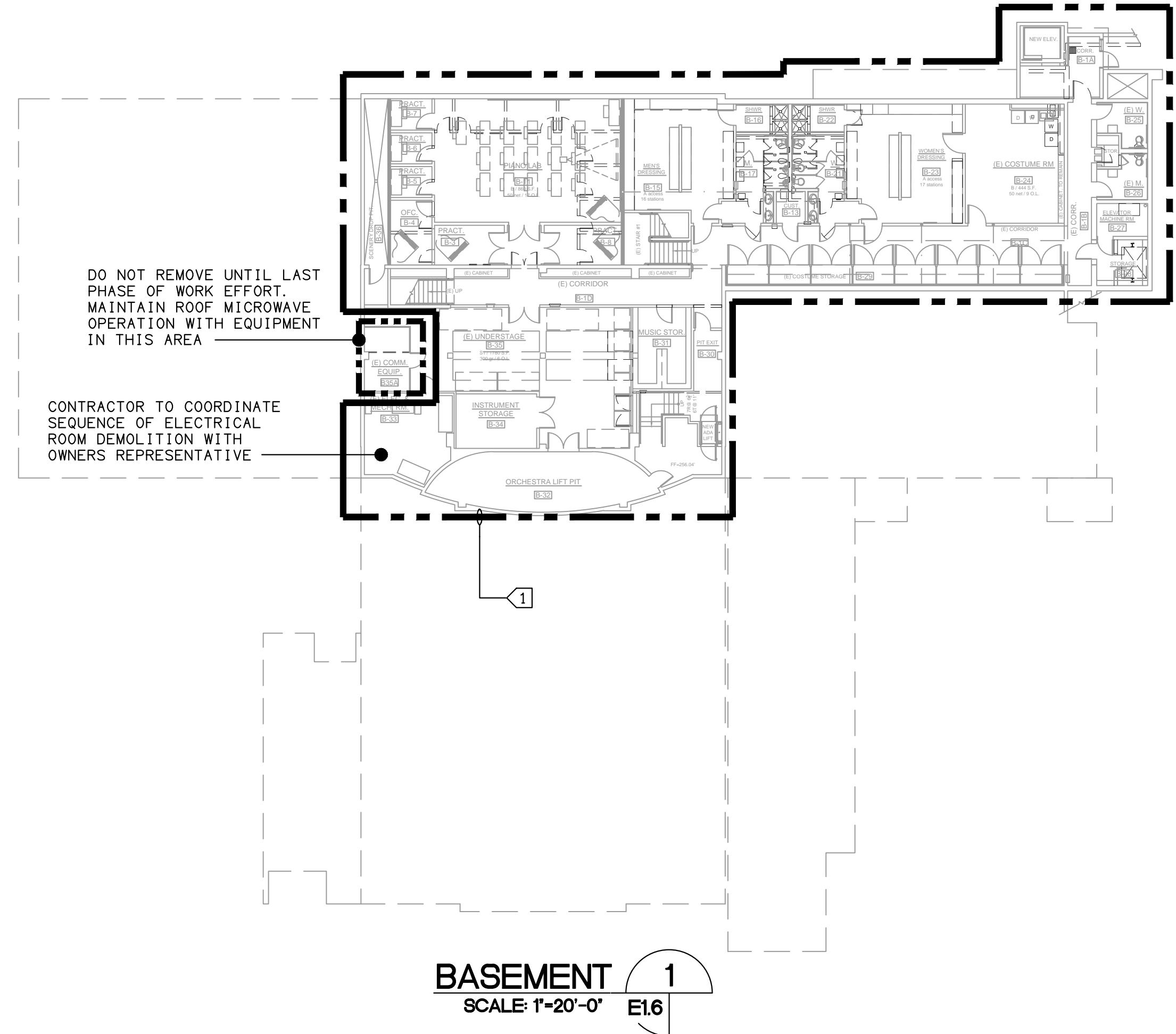
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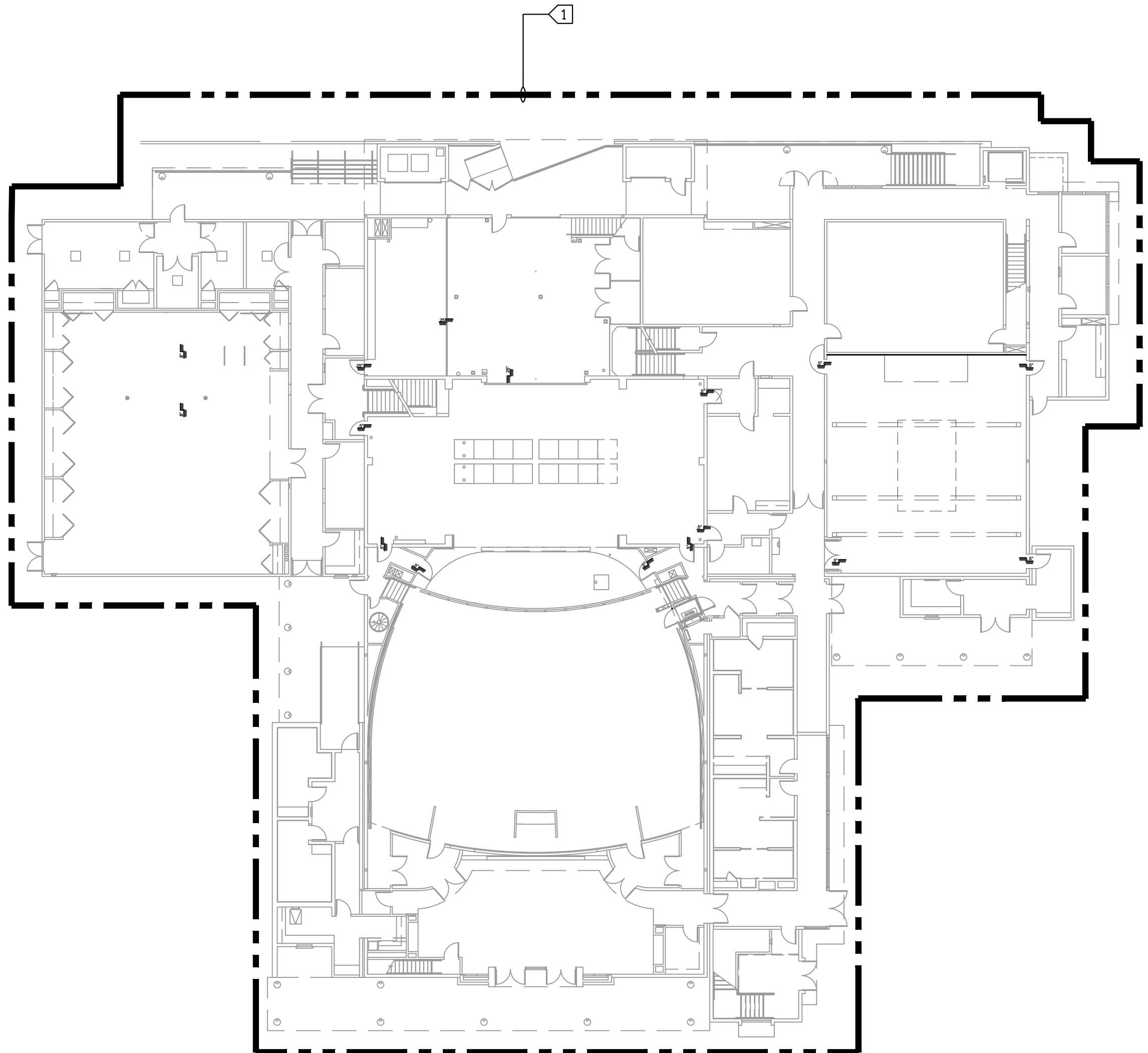
sheet title:
NEW SITE LIGHTING PLAN

E1.5

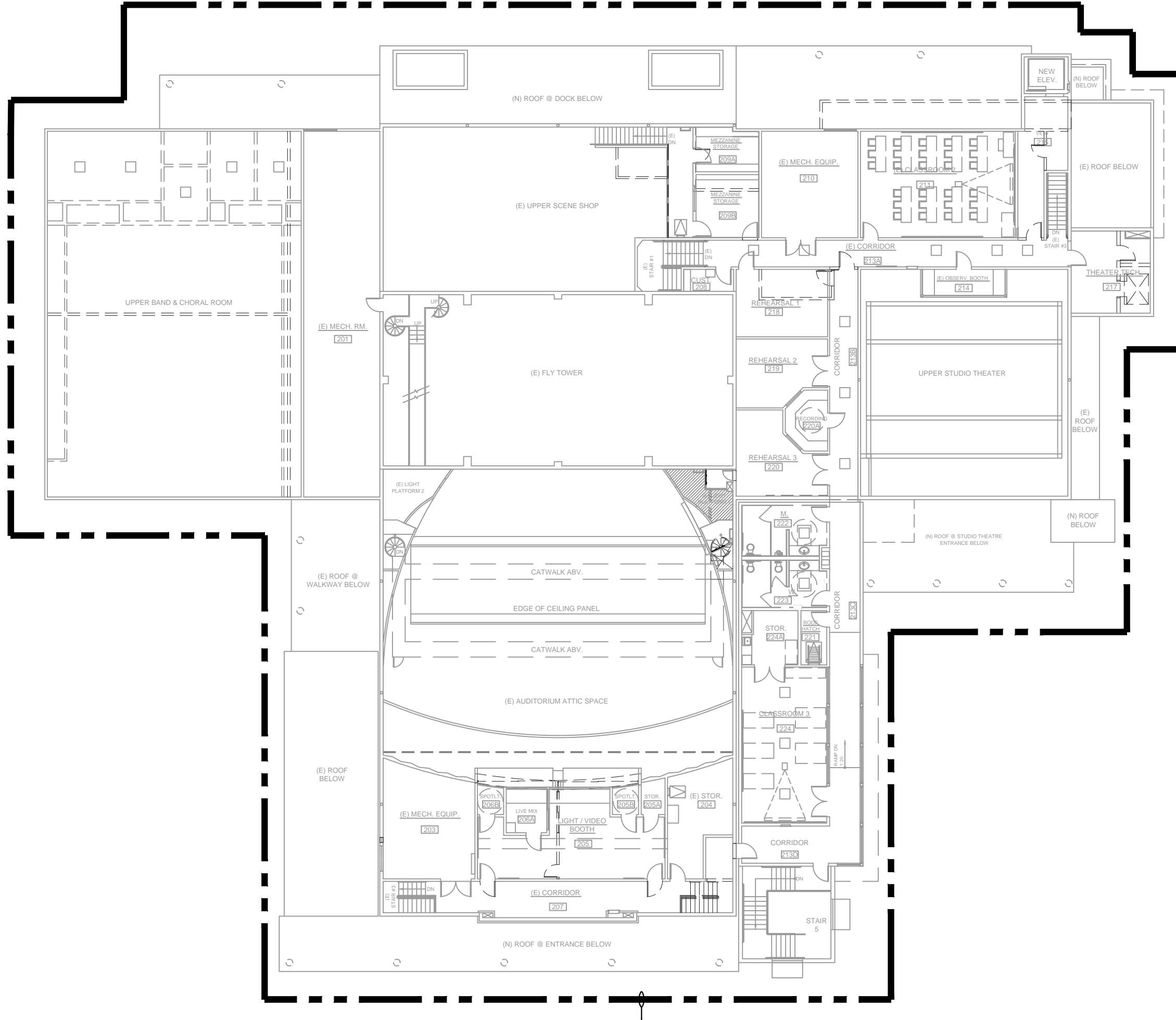
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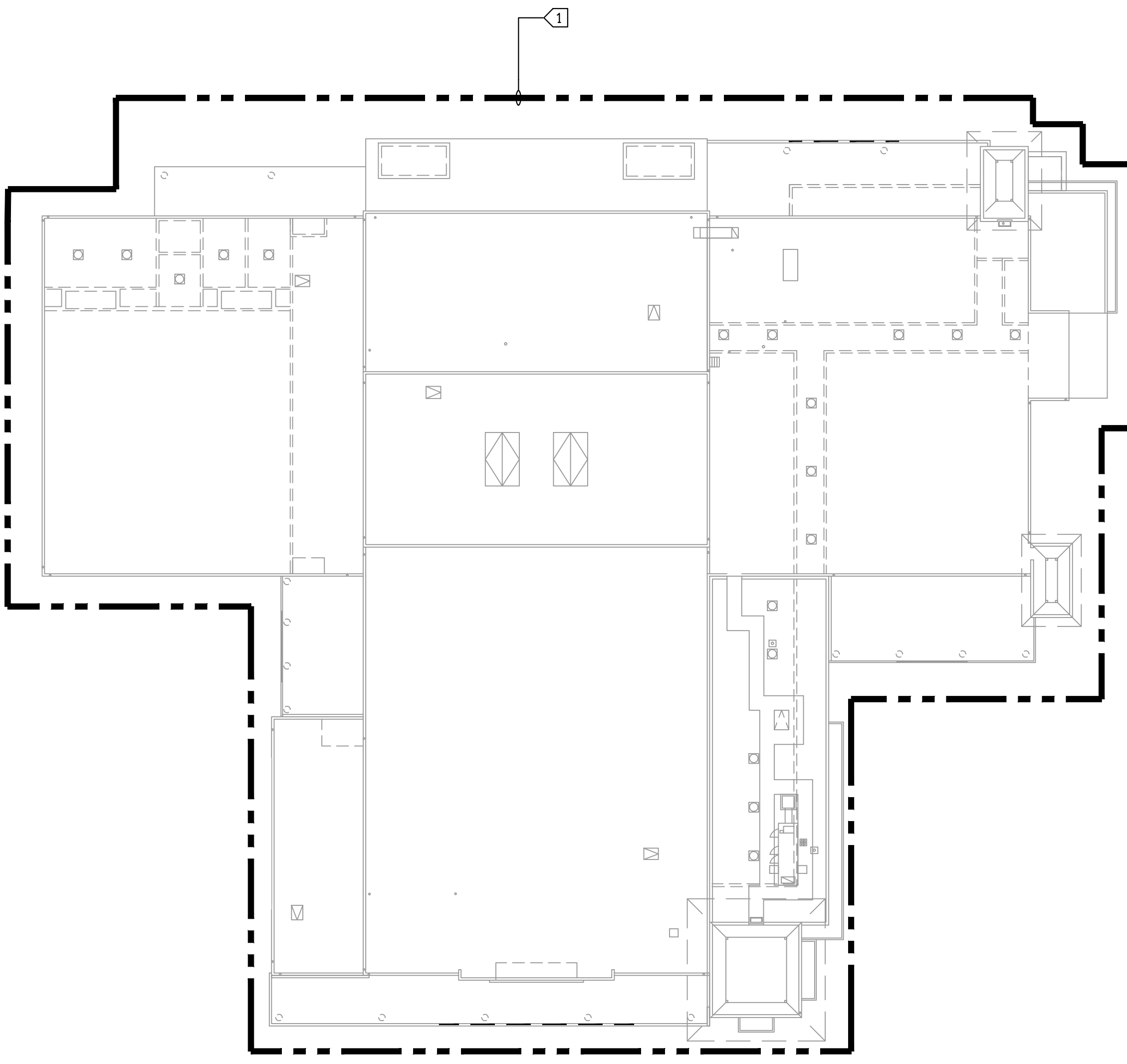
BASEMENT 1
SCALE: 1"=20'-0"
E16



FIRST FLOOR 2
SCALE: 1"=20'-0"
E16



SECOND FLOOR 3
SCALE: 1"=20'-0"
E16



ROOF 4
SCALE: 1"=20'-0"
E16

- SHEET NOTES:**
- CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
 - CONTRACTOR TO INSURE THAT MICROWAVE DISH ON ROOF CONTINUES TO OPERATE PROPERLY DURING CONSTRUCTION.
- KEY NOTES:**
- CONTRACTOR TO REMOVE ALL POWER, LIGHTING, AND COMMUNICATIONS DEVICES, CONDUIT, CABLES, CONDUCTION AND ELECTRICAL PANELS, TRANSFORMERS, EQUIPMENT ETC IN THIS AREA. CONTRACTOR TO MAINTAIN POWER TO FACP AND ANTENNA AND MICROWAVE EQUIPMENT. CONTRACTOR MAY USE EXISTING EQUIPMENT FOR TEMPORARY POWER DURING CONSTRUCTION IF PRACTICAL.



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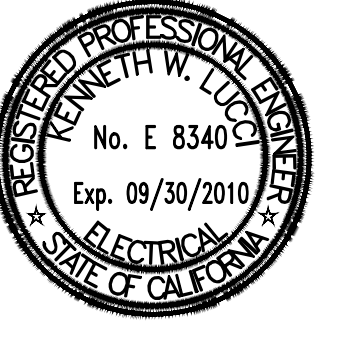
client:
Ventura County Community College District

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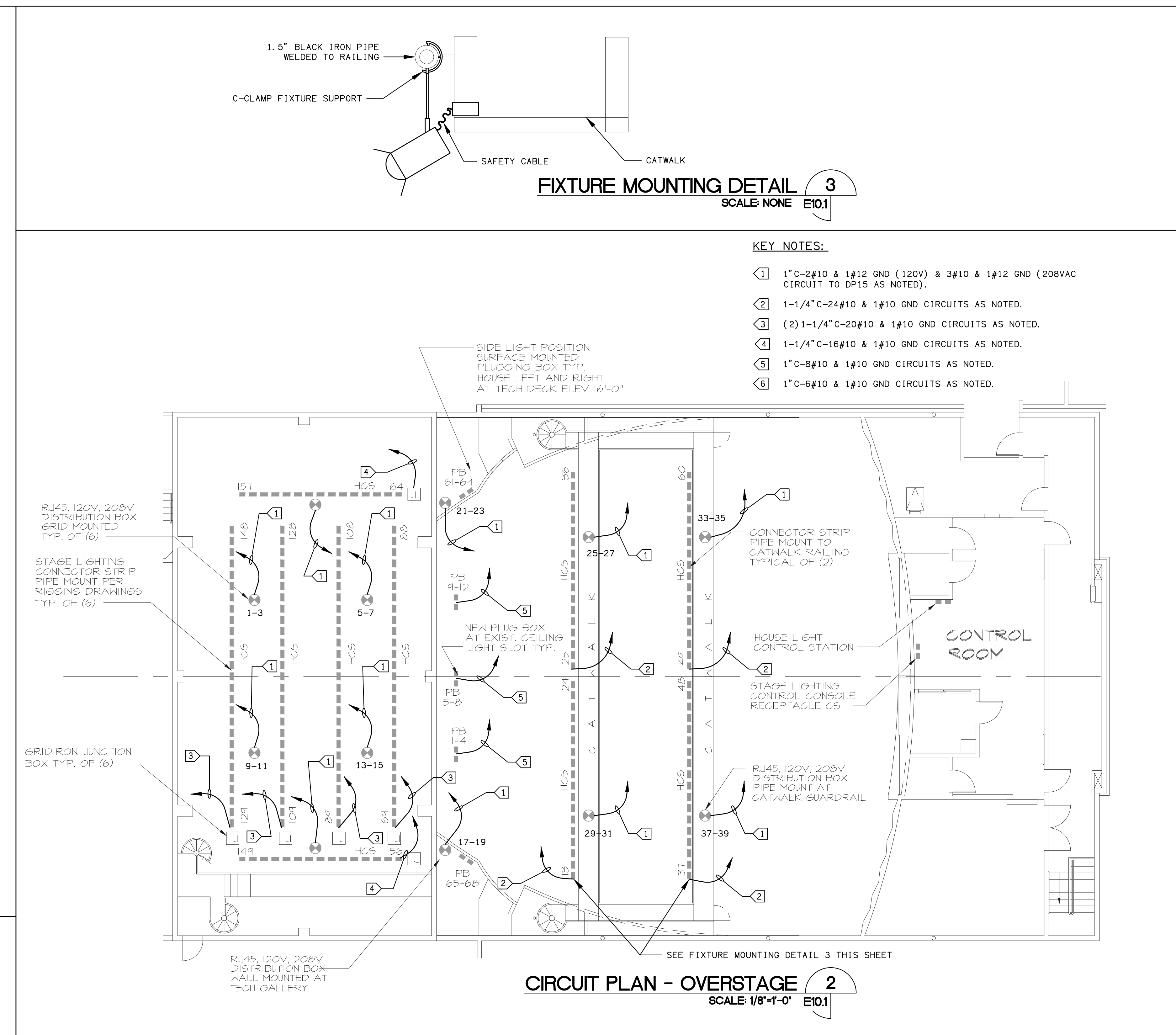
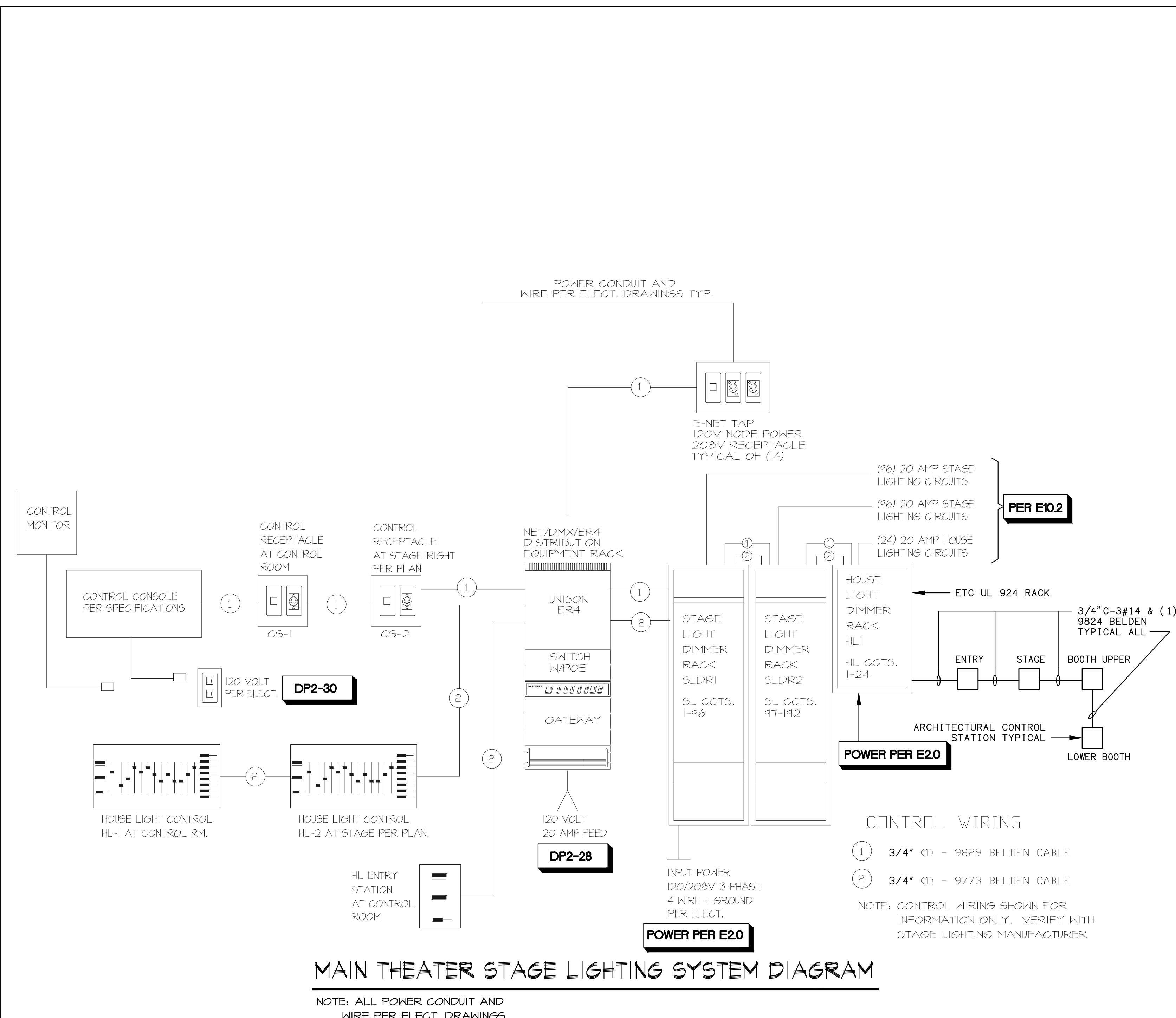
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BUILDING ELECTRICAL DEMOLITION PLAN

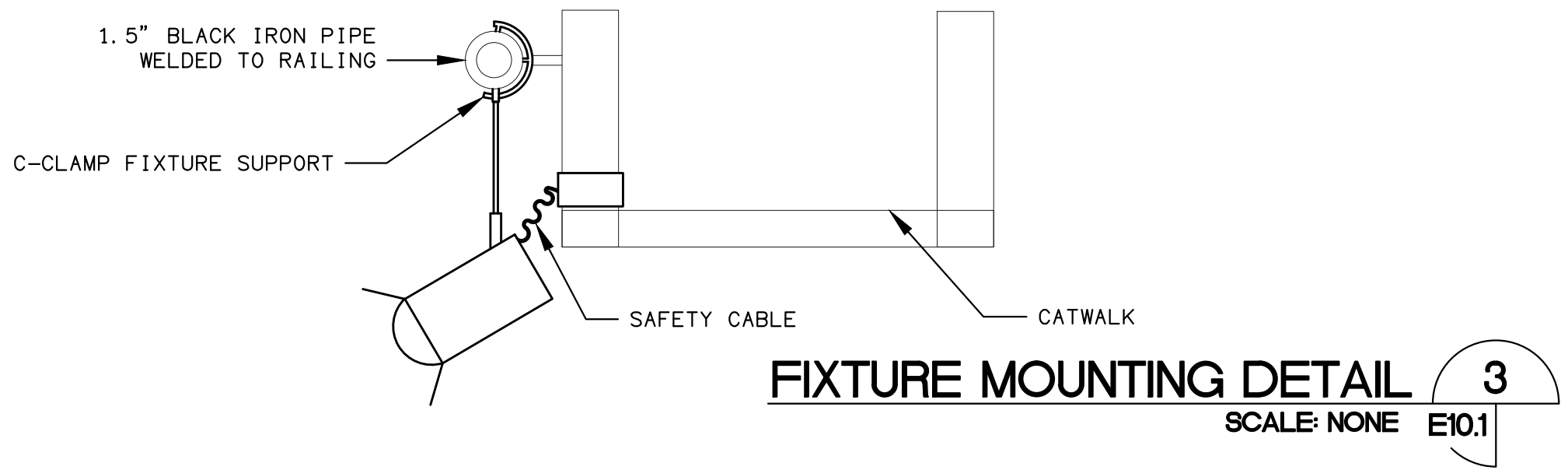
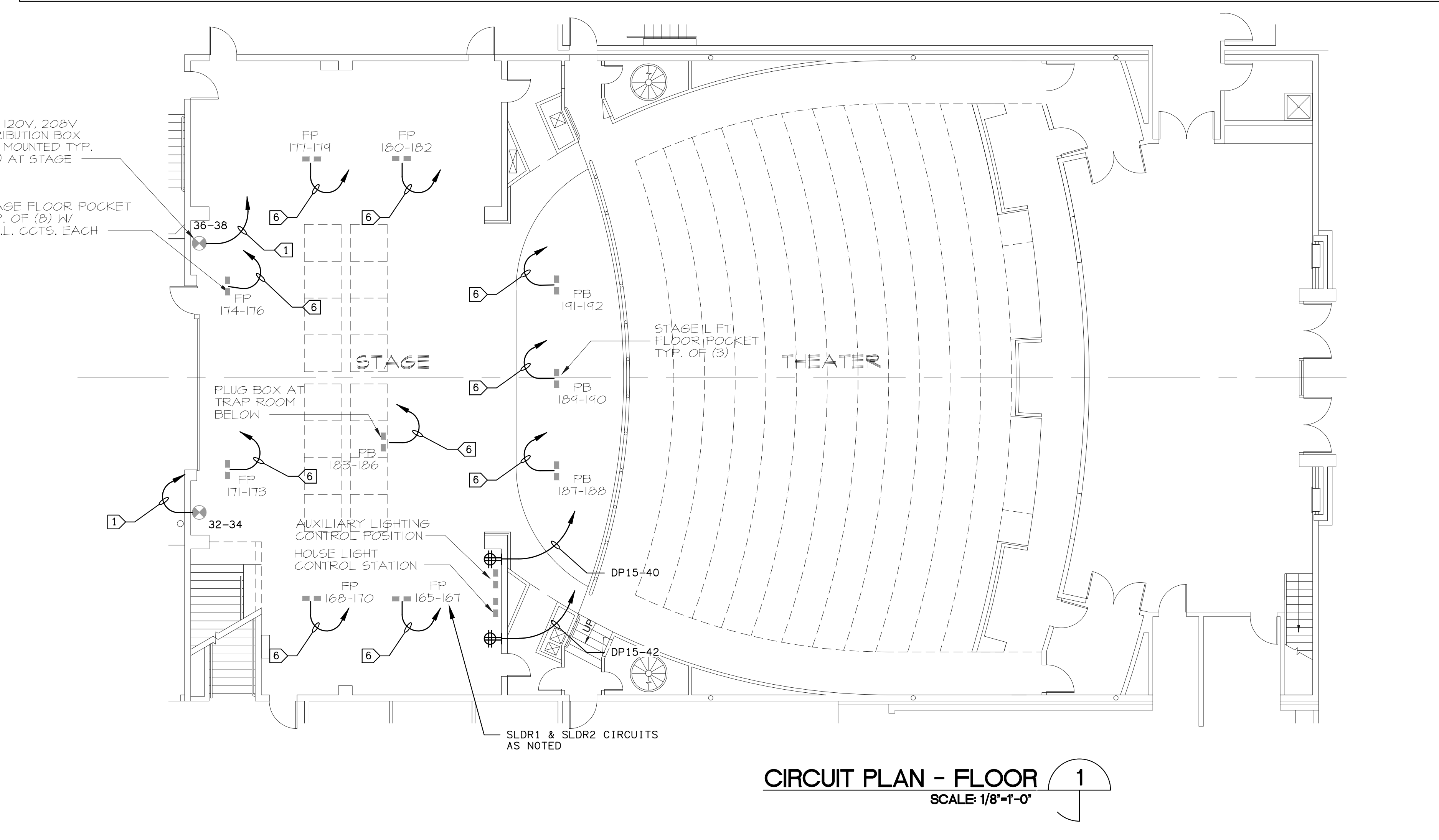
E1.6



CIRCUIT SCHEDULE

CIRCUIT NUMBERS	DESCRIPTION/ LOCATION	RECEPTACLES PER CIRCUIT	DISTRIBUTION TYPE	CONNECTOR TYPE	INSTALLATION NOTES
1-12	ANTEPRO POSITION #1	1	PB	SP1/8" FR	(3) PLUG BOXES W/ (3) CCTS EACH RECESSED AT EXISTING CEILING COVE
13-36	ANTEPRO POSITION	1	HCS	SP1/8" FR	(2) 20'-0" LONG CONNECTOR STRIPS PIPE MOUNT AT CATWALK GUARDRAIL.
37-60	ANTEPRO POSITION	1	HCS	SP1/8" FR	(2) 20'-0" LONG CONNECTOR STRIPS PIPE MOUNT AT CATWALK GUARDRAIL.
61-64	HOUSE RIGHT	1	PB	STAGE PIN (SP)	SURFACE MOUNT AT INSIDE FACE OF LIGHTPORT.
65-68	HOUSE LEFT	1	PB	SP	SURFACE MOUNT AT INSIDE FACE OF LIGHTPORT.
69-88	ELECTRIC #1	1	HCS	SP1/8" FR	PIPE MOUNT PER RIGGING DRAWINGS
89-108	ELECTRIC #2	1	HCS	SP1/8" FR	PIPE MOUNT PER RIGGING DRAWINGS
109-128	ELECTRIC #3	1	HCS	SP1/8" FR	PIPE MOUNT PER RIGGING DRAWINGS
129-148	ELECTRIC #4	1	HCS	SP1/8" FR	PIPE MOUNT PER RIGGING DRAWINGS
149-156	SR - SIDE LIGHT	1	HCS	SP1/8" FR	PIPE MOUNT PER RIGGING DRAWINGS
157-164	SL - SIDE LIGHT	1	HCS	SP1/8" FR	PIPE MOUNT PER RIGGING DRAWINGS
165-167	FLOOR POCKET DSR	1	FP	SP	PROVIDE (1) STANDARD CONVENIENCE OUTLET
168-170	FLOOR POCKET SR	1	FP	SP	PROVIDE (1) STANDARD CONVENIENCE OUTLET
171-173	FLOOR POCKET USR	1	FP	SP	PROVIDE (1) STANDARD CONVENIENCE OUTLET
174-176	FLOOR POCKET USL	1	FP	SP	PROVIDE (1) STANDARD CONVENIENCE OUTLET
177-179	FLOOR POCKET SL	1	FP	SP	PROVIDE (1) STANDARD CONVENIENCE OUTLET
180-182	FLOOR POCKET DSR	1	FP	SP	PROVIDE (1) STANDARD CONVENIENCE OUTLET
183-186	TRAP ROOM	1	PB	SP	RECESSED AT TRAP ROOM WALL
187-188	STAGE LIFT	1	FP	SP	PROVIDE (1) STANDARD CONVENIENCE OUTLET
189-190	STAGE LIFT	1	FP	SP	PROVIDE (1) STANDARD CONVENIENCE OUTLET
191-192	STAGE LIFT	1	FP	SP	PROVIDE (1) STANDARD CONVENIENCE OUTLET
1-24 HL	HOUSE LIGHTING				HOUSE LIGHT CIRCUITS PER ELECTRIC DRAWINGS

NOTE: ALL STAGE LIGHTING CIRCUITS TO BE 20 AMP UNLESS NOTED OTHERWISE



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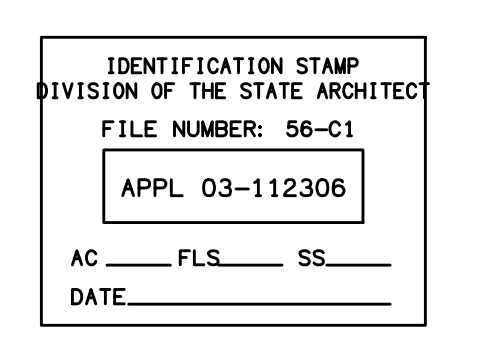
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STAGE LIGHTING CIRCUIT PLANS AND SCHEDULE

E10.1



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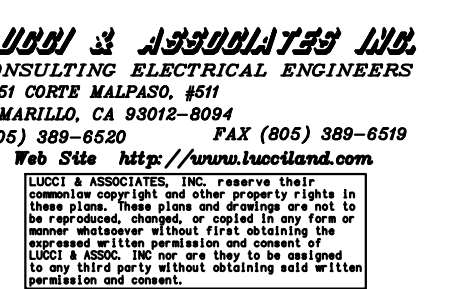
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client:

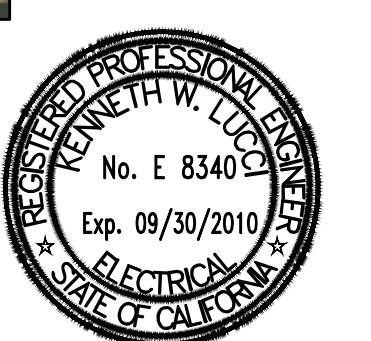
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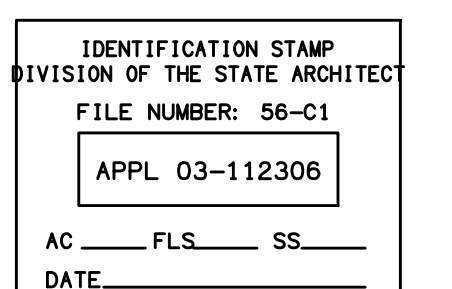
consultant:



seal:



dsw: 03-112306



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read by: checked by:

print date: 09/20/2010

sheet title: STAGE LIGHTING

E10.2

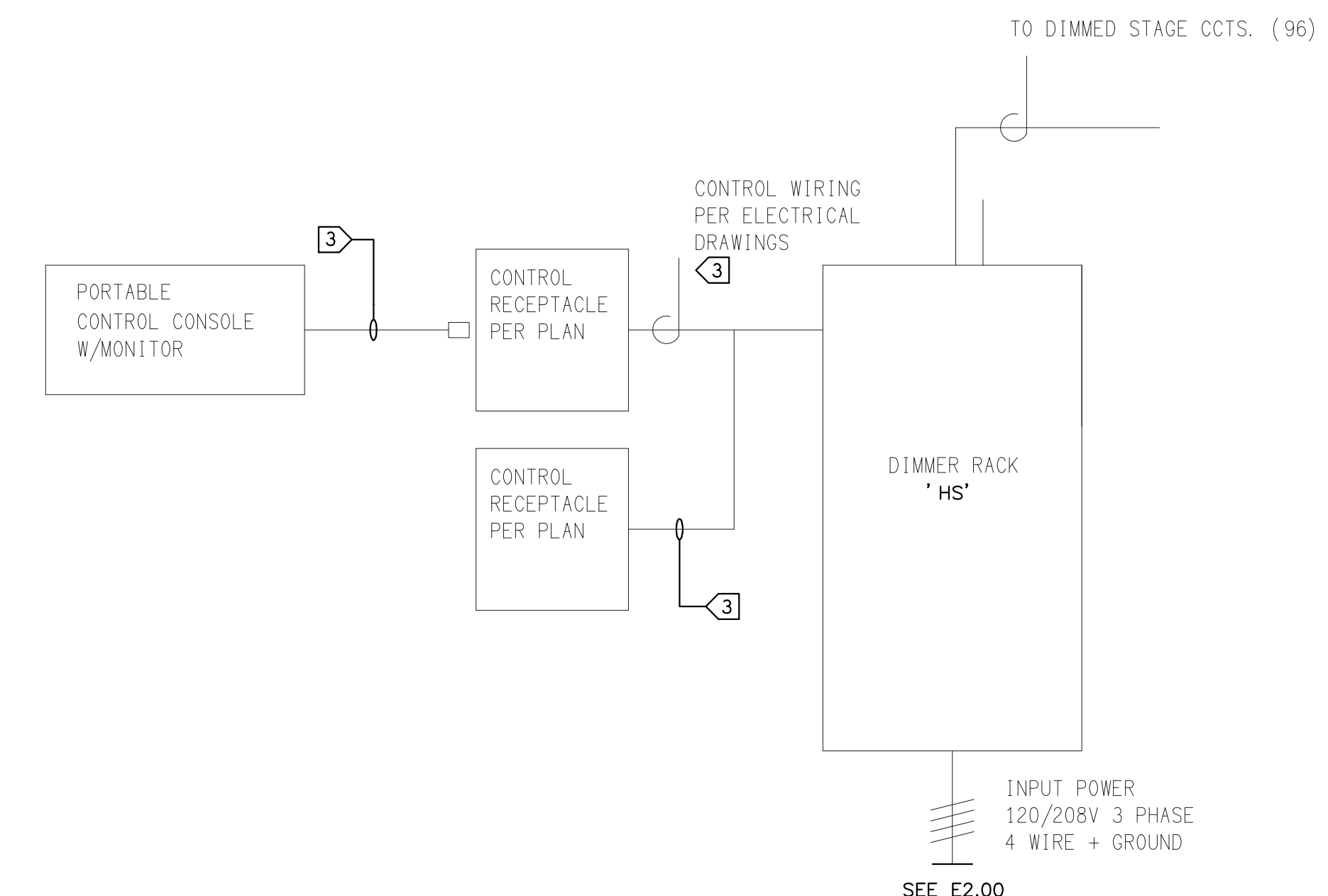
KEY NOTES:

- 1 1" C-8#10 AND 1#10 GND CIRCUITS AS NOTED.
- 2 1" C-4#10 AND 1#10 GND CIRCUITS AS NOTED.
- 3 3/4" C- (2) BELDEN 9729 WITH JACKS TO CONTROL CONSOLE.

STUDIO FIXTURE / EQUIPMENT SCHEDULE				
ITEM	MODEL NO.	LAMP TYPE	NO.	NOTES
6 X 9 ELLIPSOIDAL SPOTLIGHT	ETC 436	575 HPL/120	20	PROVIDE EACH SPOTLIGHT W/SAFETY CABLE, COLOR FRAME, FULL YOKE, C-CLAMP, AND TWIST-LOCK CONNECTOR ON LEAD
PAR SPOTLIGHT	ETC S4PAR W/ (4) LENSES	575 HPL/120	20	" "
6-INCH FRESNEL SPOTLIGHTS	SC 3480	1000 W BVT	20	" "

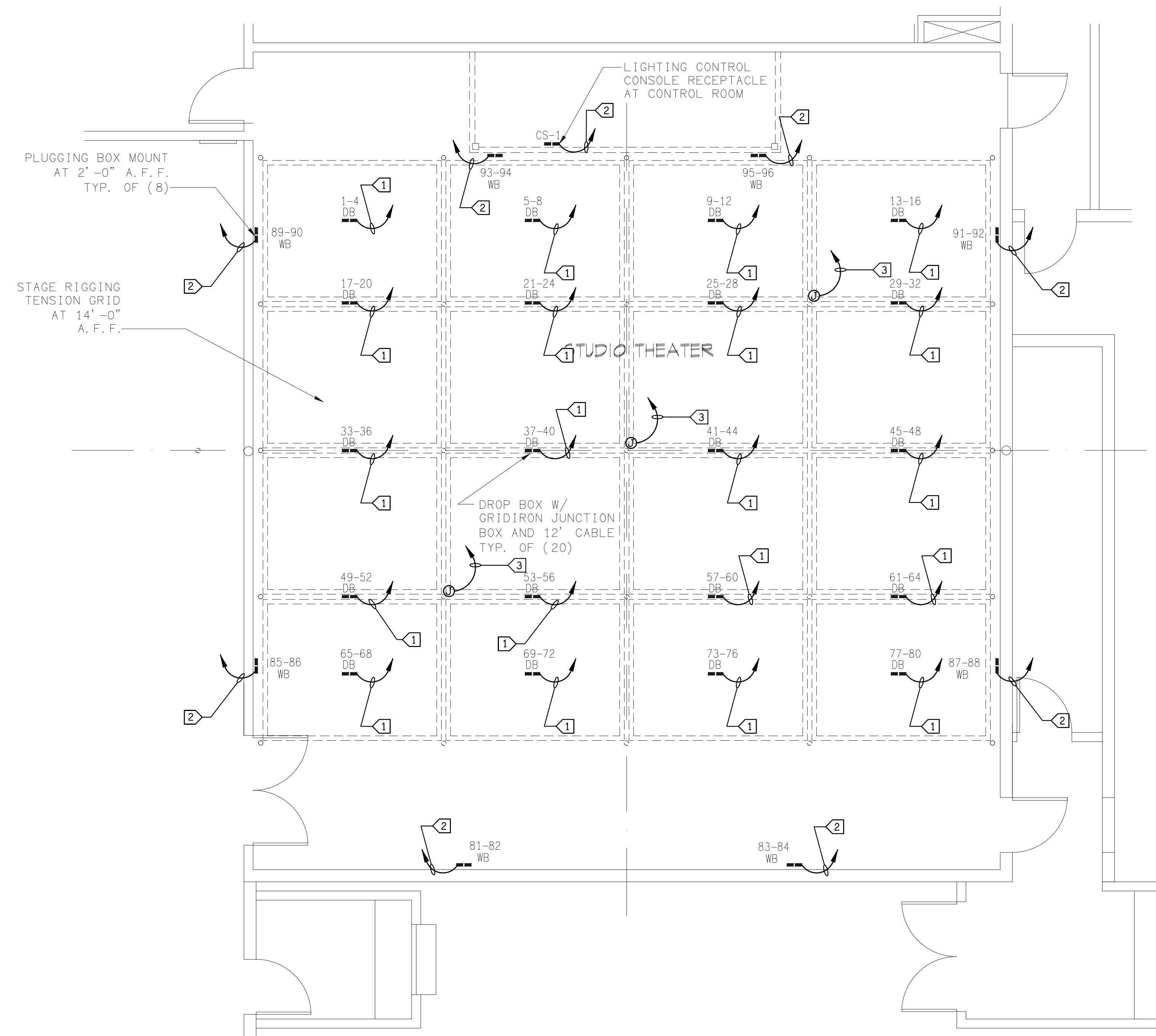
STAGE ELECTR. CABLE	4 FT. LONG SETS	12	MALE & FEMALE TWISTLOCK CONNECTORS
STAGE ELECTR. CABLE	8 FT. LONG SETS	12	" "
STAGE ELECTR. CABLE	"TWO-FER" CONNECTORS	12	MOLDED-RUBBER Y-BRANCH

STUDIO LIGHTING CIRCUIT SCHEDULE						
CIRCUITS	LOCATION/ DESCRIPTION	DISTRIBUTION	CONNECTOR	# OF CIRCUITS	DETAIL	NOTES
1-4	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
5-8	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
9-12	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
13-16	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
17-20	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
21-24	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
25-28	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
29-32	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
33-36	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
37-40	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
41-44	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
45-48	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
49-52	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
53-56	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
57-60	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
61-64	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
65-68	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
69-72	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
73-76	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
77-80	GRID DROP BOX	DROP BOX	STAGE PIN W/ 24" PIGTAIL	4		DROP BOX W/ GRIDIRON JUNCTION BOX, KELLEMS AND 6' LONG CABLE
81-82	STAGE LEVEL WALL BOX	PLUG BOX	STAGE PIN W/ FLUSH RECEPT.	2		RECESS MOUNTED WALL BOX AT 2'-0" A. F. F.
83-84	STAGE LEVEL WALL BOX	PLUG BOX	STAGE PIN W/ FLUSH RECEPT.	2		RECESS MOUNTED WALL BOX AT 2'-0" A. F. F.
85-86	STAGE LEVEL WALL BOX	PLUG BOX	STAGE PIN W/ FLUSH RECEPT.	2		RECESS MOUNTED WALL BOX AT 2'-0" A. F. F.
87-88	STAGE LEVEL WALL BOX	PLUG BOX	STAGE PIN W/ FLUSH RECEPT.	2		RECESS MOUNTED WALL BOX AT 2'-0" A. F. F.
89-90	STAGE LEVEL WALL BOX	PLUG BOX	STAGE PIN W/ FLUSH RECEPT.	2		RECESS MOUNTED WALL BOX AT 2'-0" A. F. F.
91-92	STAGE LEVEL WALL BOX	PLUG BOX	STAGE PIN W/ FLUSH RECEPT.	2		RECESS MOUNTED WALL BOX AT 2'-0" A. F. F.
93-94	STAGE LEVEL WALL BOX	PLUG BOX	STAGE PIN W/ FLUSH RECEPT.	2		RECESS MOUNTED WALL BOX AT 2'-0" A. F. F.
95-96	STAGE LEVEL WALL BOX	PLUG BOX	STAGE PIN W/ FLUSH RECEPT.	2		RECESS MOUNTED WALL BOX AT 2'-0" A. F. F.



STUDIO LIGHTING SYSTEM DIAGRAM

NO SCALE



STUDIO CIRCUIT DISTRIBUTION PLAN

SCALE 1/4" = 1'-0"

RIGGING SCHEDULE

NOTE: LOCATION REFERS TO DISTANCE FROM PROSCENIUM WALL FINISH

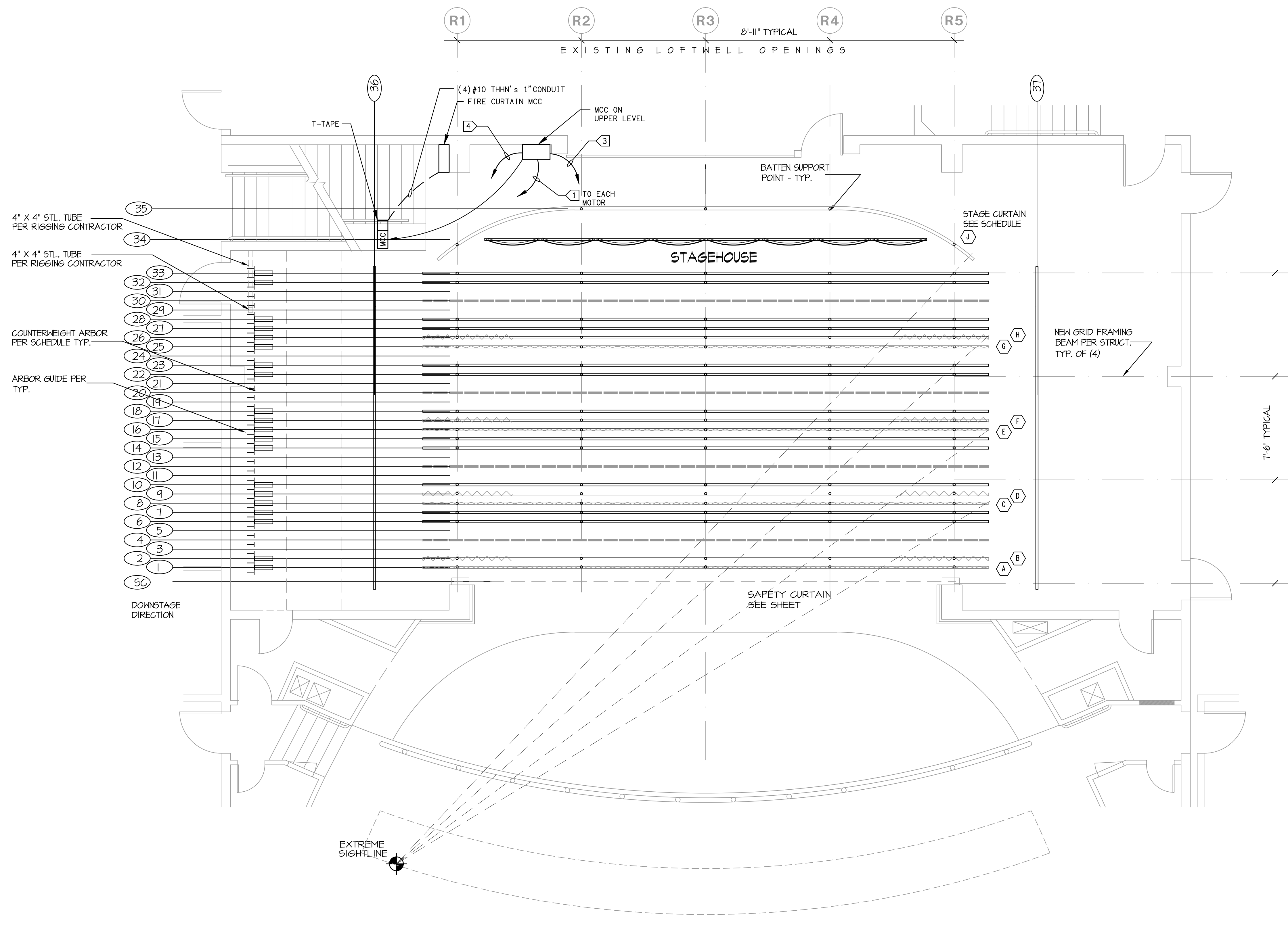
HEAD BEAMS LOADING LOFT BEAMS LOADING

EXISTING LOAD	LINESET / DESCRIPTION	NOTE
2000#	SC SAFETY CURTAIN	MOTORIZED LINESHAFT 1.5HP
800#	1 VALANCE	
800#	2 MAIN TRAVELER	
N.A.	3 EMPTY	
2000#	4 ELECTRIC #1	MOTORIZED LINESHAFT 1.5HP
N.A.	5 EMPTY	
800#	6 GENERAL PURPOSE	
800#	7 GENERAL PURPOSE	
800#	8 BORDER #1	
800#	9 SIDE LEG #1	
800#	10 GENERAL PURPOSE	
800#	11 CEILING PANEL #1	MOTORIZED LINESHAFT 1.5HP
800#	12 ELECTRIC #2	MOTORIZED LINESHAFT 1.5HP
N.A.	13 EMPTY	
800#	14 GENERAL PURPOSE	
800#	15 GENERAL PURPOSE	
800#	16 BORDER #2	
800#	17 SIDE LEG #2	
800#	18 GENERAL PURPOSE	
N.A.	19 EMPTY	
2000#	20 ELECTRIC #3	MOTORIZED LINESHAFT 1.5HP
N.A.	21 EMPTY	
800#	22 GENERAL PURPOSE	
800#	23 GENERAL PURPOSE	
800#	24 GENERAL PURPOSE	
800#	25 BORDER #3	
800#	26 REAR TRAVELER	
800#	27 CEILING PANEL #2	MOTORIZED LINESHAFT 1.5HP
800#	28 GENERAL PURPOSE	
N.A.	29 EMPTY	
2000#	30 ELECTRIC #4	MOTORIZED LINESHAFT 1.5HP
N.A.	31 EMPTY	
800#	32 GENERAL PURPOSE	DOUBLE PURCHASE
800#	33 GENERAL PURPOSE	DOUBLE PURCHASE
800#	34 ORCHESTRA REAR WALL	MOTORIZED LINESHAFT 5HP
800#	35 CYCLOGRAMA	
800#	36 SR LIGHTING BATTEN	MOTORIZED LINESHAFT 1.5HP
800#	37 SL LIGHTING BATTEN	MOTORIZED LINESHAFT 1.5HP

1060 PLF 840 PLF 200 PLF 262 PLF

KEY NOTES:

- 1 PROVIDE 1" C-3#10 & 1#10 GND FROM MOTOR CONTROL CENTER TO EACH LINE SHAFT MOTOR; PROVIDE LOCAL FUSED DISCONNECT.
- 2 1" C & MANUFACTURER REQUIRED CONTROL CABLE TO EACH LINESHAFT PER MANUFACTURER AT EACH MOTOR.
- 3 1-1/4" C- 2 BELDEN 8162 & (1) BELDEN 9554 TO CONTROL STATION AT STAGE RIGHT - STAGE MANAGER PANEL
- 4 TO EACH MOTOR - (1) 1" C-6#12 STRANDED CONTROL & 1#12 GROUND. (1) 1" C- (1) BELDEN 9329.



STAGE RIGGING PLAN 1
 SEE RIGGING SCHEDULE SCALE: 1/4"=1'-0"
 E11.1



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NO.	DATE	REVISION

print date: 09/20/2010

sheet title:
STAGE RIGGING PLANS AND SCHEDULE

E11.1

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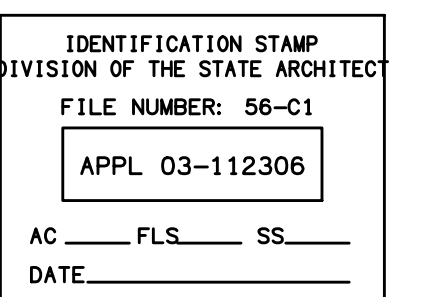
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Submissions / Revisions

NO.	DATE	REVISION

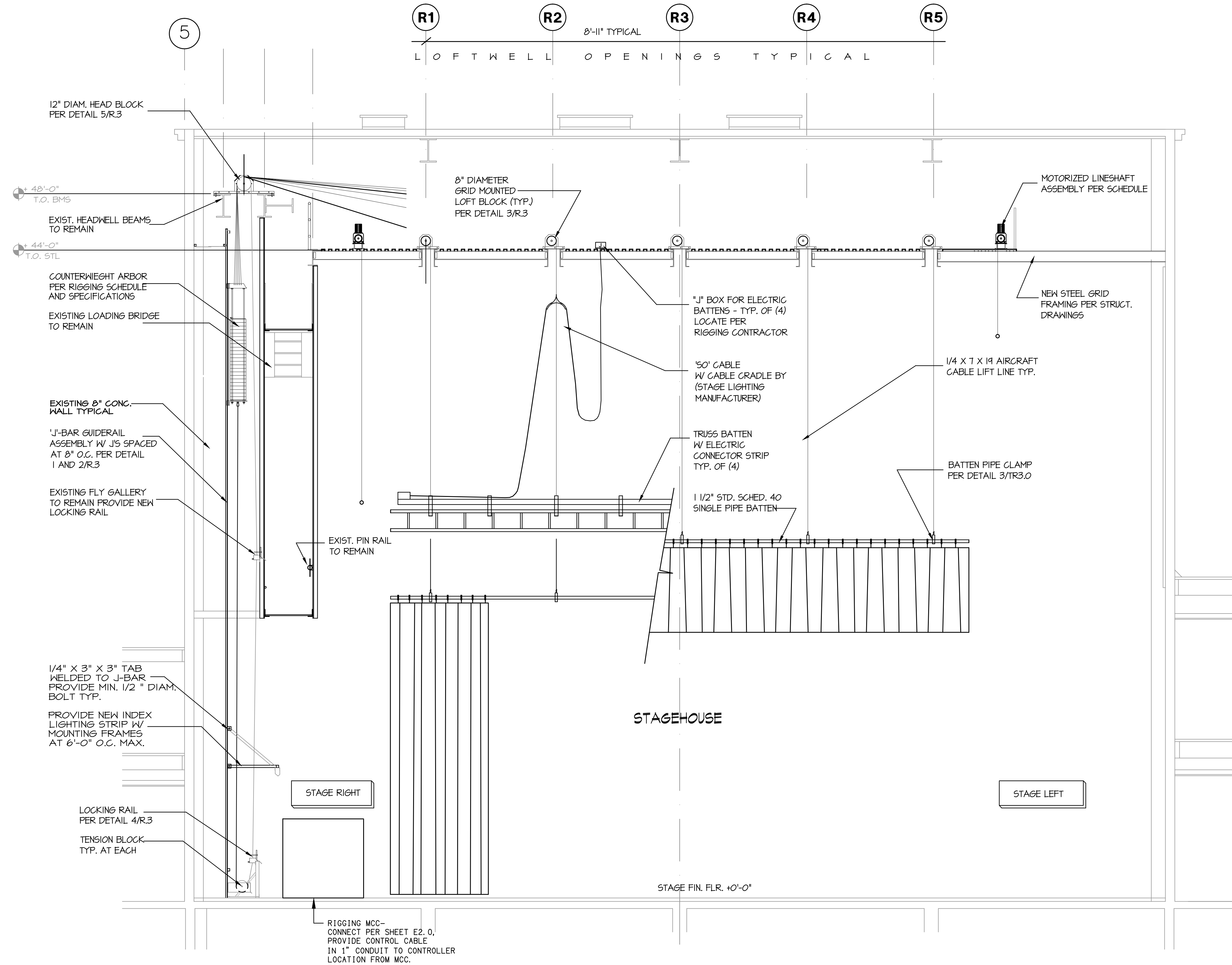
read by: _____ check by: _____

print date: 09/20/2010

sheet title: **STAGE RIGGING**

SECTION AND DETAILS

E11.3



A STAGEHOUSE SECTION
SCALE: 1/4" = 1'-0"

SHEET NOTES:

- 1. VERIFY LOCATION OF ALL BUILDINGS AND APPENDICES ON ARCHITECTURAL AND CIVIL PLANS.
2. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN & INSTALLATION.
3. FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
4. VERIFY LOCATION OF ALL EQUIPMENT AND DEVICES ON ARCHITECTURAL AND CIVIL PLANS.
5. CONTRACTOR TO PROVIDE GROUND CONDUCTORS IN ALL CONDUITS.
6. 1" CONDUIT MINIMUM UNDERGROUND 36" MINIMUM BURIED DISTANCE TO TOP OF CONDUITS.
7. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
8. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
9. ALL TRANSFORMERS AND FLOOR MOUNTED PANELS SHALL BE IN 4" CONCRETE HOUSEKEEPING PADS WITH VIBRATION PADS AND HILTI EXPANSION BOLTS.
10. ALL TRANSFORMERS SHALL BE CONNECTED WITH A MINIMUM 18" OF FLEXIBLE CONDUIT.
11. SWITCHGEAR MANUFACTURER TO PROVIDE SHORT CIRCUIT, COORDINATION AND ARC FLASH STUDY PRIOR TO APPROVAL OF SHOP DRAWINGS.

KEY NOTES:

- 1 EXISTING CONDUIT, NEW 3#250KCMIL EPR 5/8KV SHIELDED MV105 COPPER OKOGUARD CABLE WITH 1/0 GND.
2 160KA TVSS.
3 100% ELECTRONIC LSIG BREAKER.
4 CONNECT TO MSB GROUND BUS.
5 400A 480VAC 3 POLE NEMA 3R FUSIBLE DISCONNECT WITH 250A FUSES (VERIFY WITH EQUIPMENT MANUFACTURE.
6 100A 480VAC 3 POLE DISCONNECT NEMA 1 FUSIBLE DISCONNECT WITH AUXILIARY CONTACTS & FUSES PER MFG NAME PLATE.
7 INTERCEPT (X) FEEDER TO BUILDING 'G'. INSTALL NEW 'J' 600A 15KV LOAD BREAK ELBOWS IN CIRCUIT. CONNECT BUILDING 'G' VIA 600A, 15KV BREAK LOAD ELBOW. DISCONNECT EXISTING BLDG. G FEEDER & REPLACE WITH NEW LATERAL 5KV FEEDER ON PREMIUM TIME ON WEEKEND SCHEDULED OUTAGE.
8 UL 924 ETC UNISON RACK WITH (24) 2.4KW DIMMERS AND CONTROL MODULE - BELDEN 9729 CONNECT TO PROCESSOR AND PROVIDE 120VAC INPUT FROM DP4-40.
9 ALL DIMMER CIRCUITS FEEDERS TO BE STRANDED & DEDICATED NEUTRALS.

TRANSFORMER SCHEDULE table with columns: TAG, SIZE KVA, PRIMARY VOLTAGE, SECONDARY VOLTAGE, TEMP. RISE °C, REMARKS. Includes entries TR0 through TR4.

FAULT ANALYSIS table with columns: BUS, AFC. Includes entries 1 through 4.

FEEDER SCHEDULE table with columns: TAG, CONDUIT/CONDUCTOR, FROM, TO. Includes entries 1 through 28.

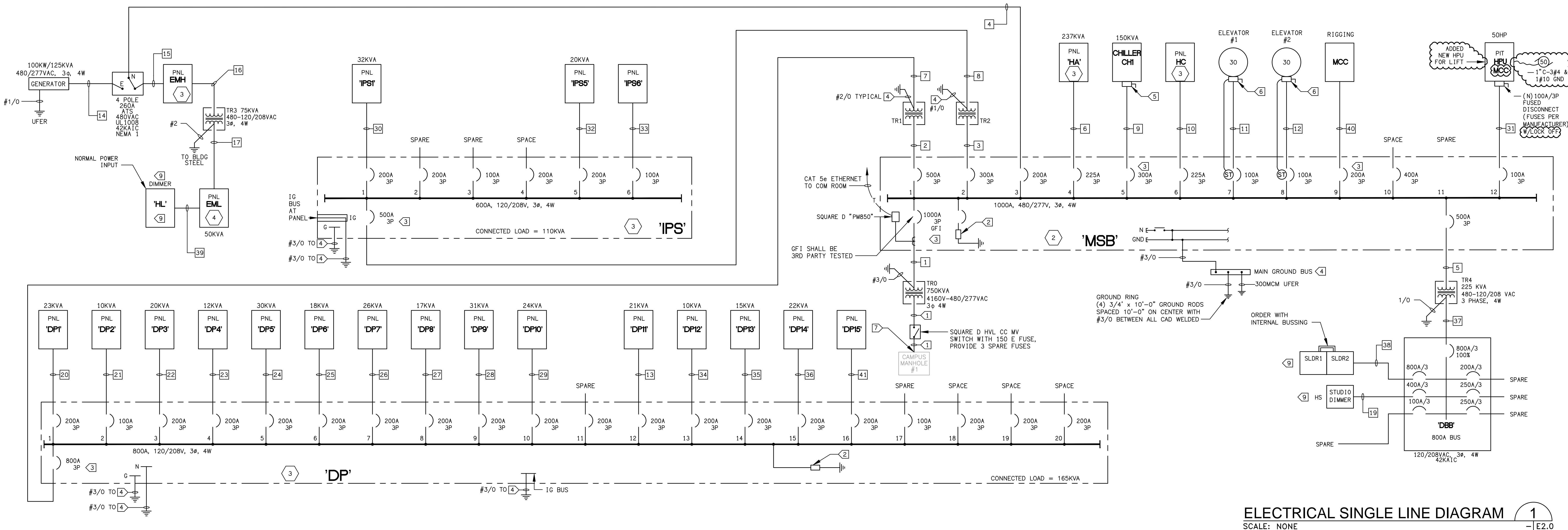
FEEDER SCHEDULE table with columns: TAG, CONDUIT/CONDUCTOR, FROM, TO. Includes entries 29 through 41.

'MSB' LOAD SUMMARY CALCULATIONS (CONNECTED) table with columns: Equipment, Load (kVA), Total Load = 595 kVA, In Amps at 480 VAC 3Ø = 716A.

SWITCHGEAR MANUFACTURER TO SUPPLY ALL DEVICE SETTINGS AND COORDINATION AND ARC FLASH STUDY PRIOR TO RELEASE OF SHOP DRAWINGS

CONTRACTOR SHALL PROVIDE LUGS TO ACCOMMODATE ALL CONDUCTOR SIZES

SWITCHGEAR SETTINGS TO BE CERTIFIED BY THIRD PARTY TESTING LAB



ELECTRICAL SINGLE LINE DIAGRAM SCALE: NONE



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project:

Ventura College Theater, Bldg G Modernization

4667 Telegraph Rd. Ventura, CA 93003

client:

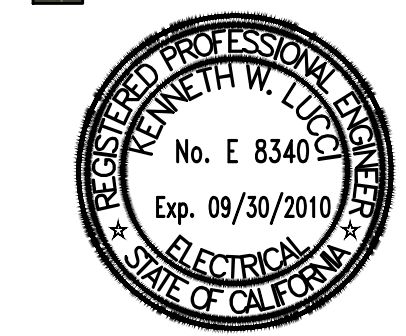
Ventura County Community College District

255 W. Stanley Ave, Suite 250 Ventura, CA 93001

consultant:

LD&S ASSOCIATES INC. CONSULTING ELECTRICAL ENGINEERS 3300 ORTEGA WALKWAY, SUITE 200 CARROLLTON, GA 30086-6004 (800) 389-6230 FAX (800) 389-6239

seal:



dsa: 03-112306

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT FILE NUMBER: SB-C1 APPL. 03-112306 AC: FLS: SS: DATE:

the original size of this drawing is 30" x 42"

Submissions / Revisions

Table with columns for revision number, description, and date.

cad by: chd by:

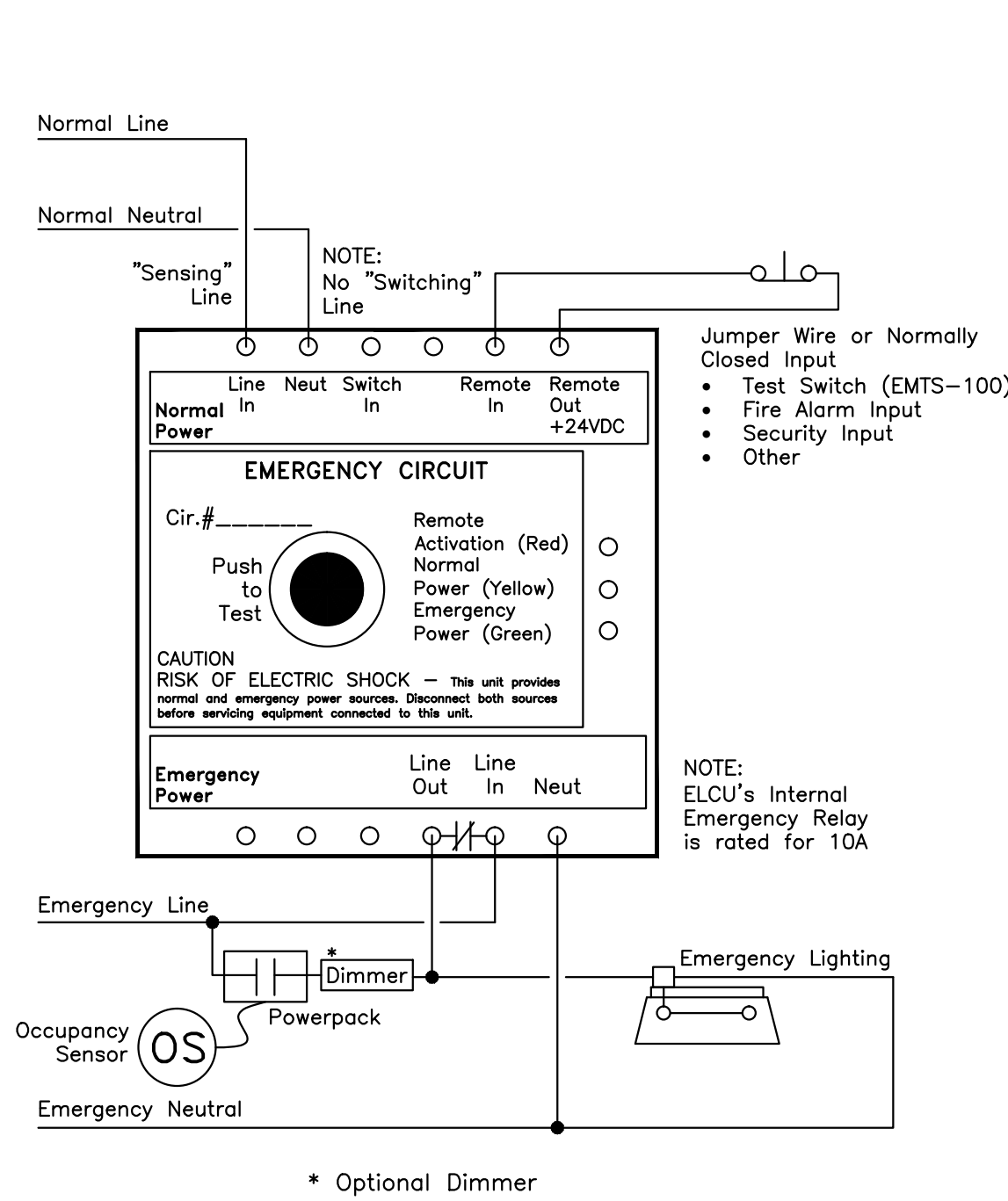
print date: 09/20/2010

sheet title: ELECTRICAL SINGLE LINE DIAGRAM

E2.0

EMERGENCY CONTROL WITH SENSOR & OPTIONAL DIMMER

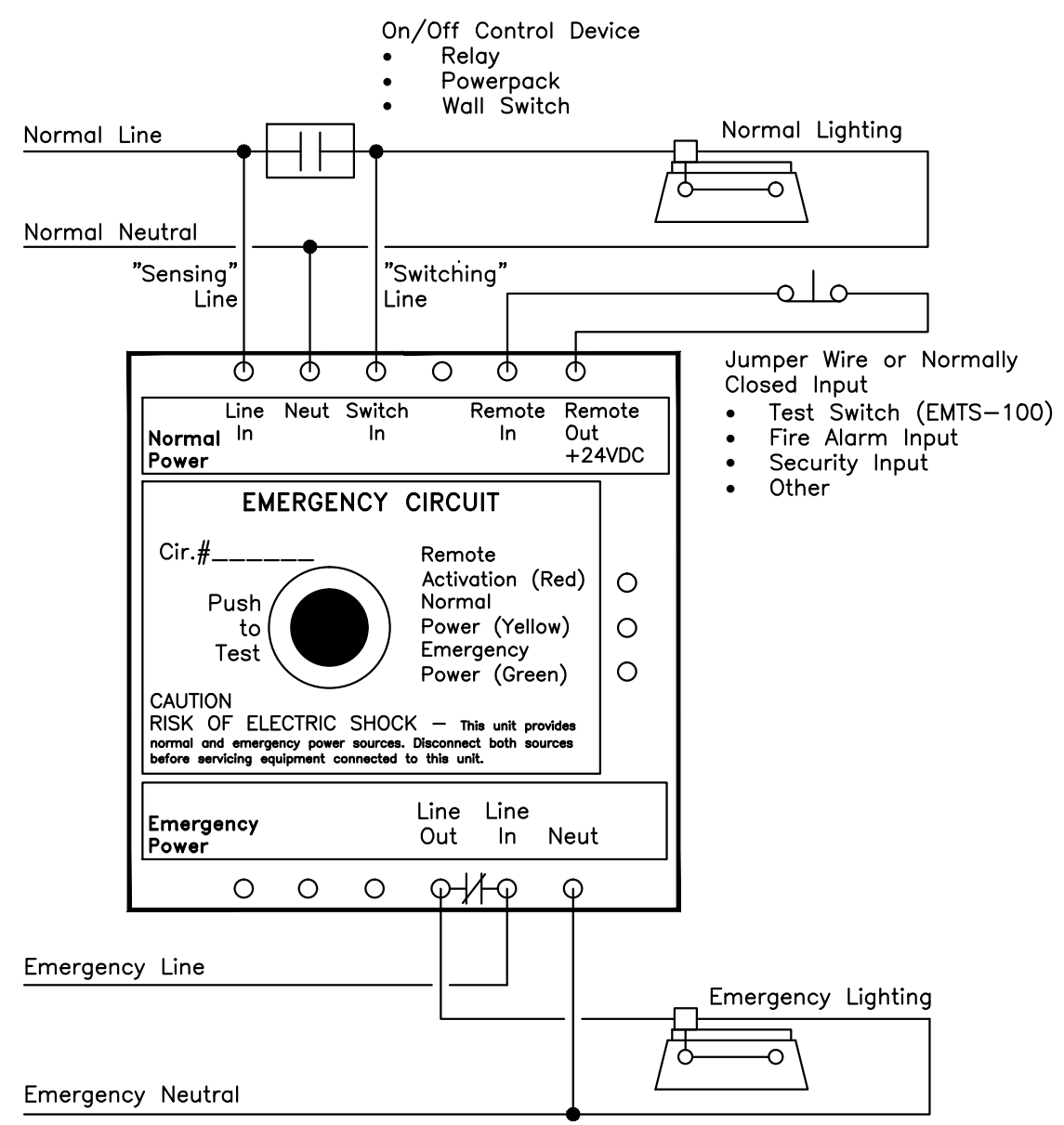
ELCU shuts around dimmer when no normal power



ELCU DIMMER AND SENSOR 4
SCALE: NONE E3.0

EMERGENCY LIGHTING CONTROL UNIT

Typical Wiring



ELCU-100 GENERAL WIRING 2
SCALE: NONE E3.0

FIXTURE SCHEDULE NOTES:

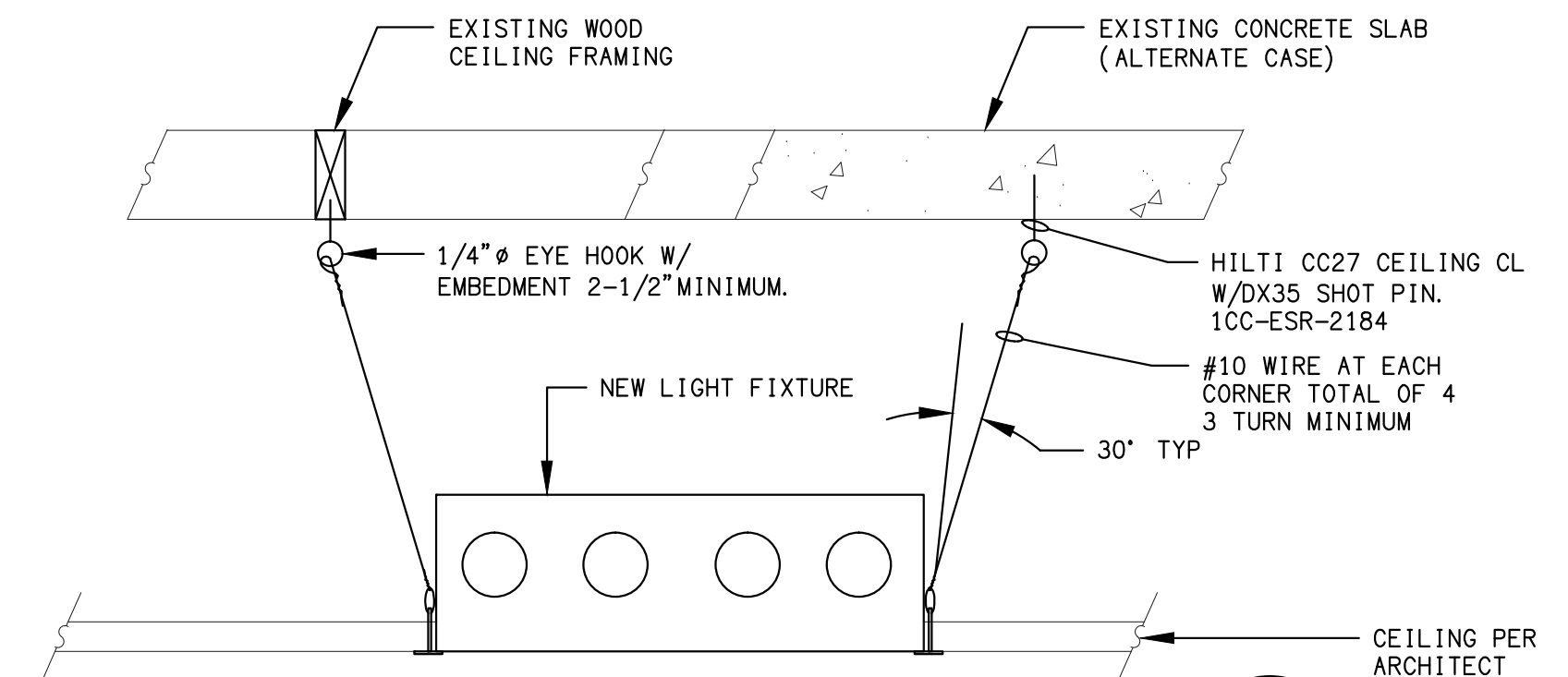
- CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING PROPER TYPES OF TRIMS FOR ALL RECESSED FLUORESCENT FIXTURES TO FIT THE CEILING BEING INSTALLED.
- ALL FLUORESCENT LAMPS SHALL BE 3500°K.
- ALL BALLASTS SHALL BE ELECTRONIC SOLID STATE
- FIXTURES TYPE IN CONTACT WITH INSULATION SHALL HAVE U.L. LISTED THERMAL BARRIER.
- CONTRACTOR SHALL VERIFY THE TYPE OF CEILING BEFORE ORDERING NEW FIXTURES. CONTRACTOR IS FULLY RESPONSIBLE TO PROVIDE ALL MOUNTING BRACKETS TO FIT CEILING CONDITIONS AT NO EXTRA CHARGE TO THE OWNER.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES.
- SEE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS, CEILING CONFIGURATION AND LIGHTING PLACEMENT.
- XX - FIXTURE TYPE
XX - QUANTITY

NOTE: ALL ELECTRICAL EQUIPMENT, CONDUIT, FIXTURES, ETC. SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE PER STRUCTURAL DETAILS.

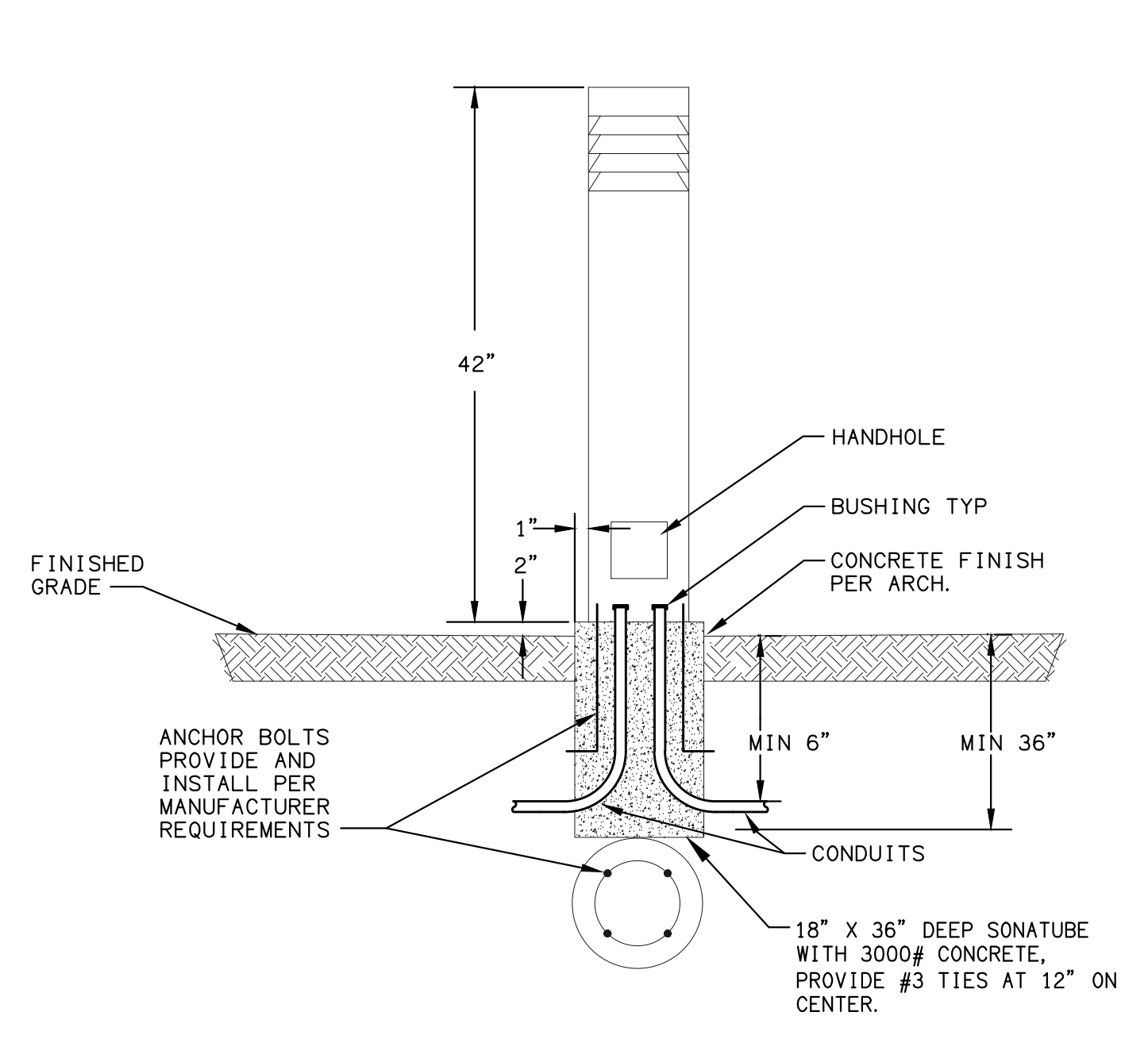
LIGHTING FIXTURE SCHEDULE

TAG	SYMBOL	WATT	DESCRIPTION	LAMP - TYPE AND QUANTITY	MOUNTING	MANUFACTURER AND MODEL NUMBER	* ALTERNATE BID MANUFACTURERS*	REMARKS
BB	[Symbol]	70	BOLLARD	100W MH	CONCRETE BASE	KIM #VRB1/100MVOLT/BL-P/CH-C	BEGA 9483MH	SEE 2 E6.10
BS	[Symbol]	15	STEP LIGHT	39WT6 G12	WALL @18"	BEGA 3040MH		SEE 1 E6.10
BSS	[Symbol]	60	STEP LIGHT	60W A-19	WALL	BEGA 2312 BLK		
BST	[Symbol]	60	STEP LIGHT	60W A-19	WALL	BEGA 2601 BLK		
BT	[Symbol]	20	TREE UPLIGHT	20W MH	CONCRETE BASE	HK LIGHTING ZX20-RMB-BLK		REMOTE BALLAST SEE 5 E6.10
BU	[Symbol]	80	UPLIGHT	(2) 54TSHD	ROOF	HYDREL 4799-4-254-MVOLT		SEE 8 E6.10
C	[Symbol]	64	COVE FIXTURE FLUORESCENT	F32T8 3500°K (2 LAMPS)	RECESSED	LITE CONTROL #202-TECWELB277		FIELD VERIFY LENGTH PRIOR TO BID
DD	[Symbol]	55	EXTERIOR DOWNLIGHT	(2) 42WTT	RECESSED	KIRLIN #RS80848-40-19-45-46-58-FS		
D1	[Symbol]	32	8" APERTURE DOWNLIGHT FLUORESCENT	32WTRT 3500°K (1 LAMP)	T-BAR	LITHONIA AFV32TRTWTRLD277GEB		DIMMING BALLAST WHERE NOTED
D2	[Symbol]	42	9" APERTURE DOWNLIGHT FLUORESCENT	42WTRT 3500°K (1 LAMP)	SOFFIT	LITHONIA LGFV42TRT9RWCHL277GEB		DIMMING BALLAST WHERE NOTED
D3	[Symbol]	64	DOWNLIGHT 8" APERTURE FLUORESCENT	32WTRT 3500°K (2 LAMPS)	RECESSED	KURT VERSEN P941232W277GEB	KIRLIN #FRR0901043(32)	
D4	[Symbol]	50	DOWNLIGHT	50W PAR30	T-BAR	LITHONIA APRPAR306AR		
D5	[Symbol]	50	DOWNLIGHT	(2) 26WTRT	SURFACE	LITHONIA CF11232TRT10ARMOLDWHG		
D6	[Symbol]	64	DOWNLIGHT 8" APERTURE FLUORESCENT	32WTRT 3500°K (2 LAMPS)	RECESSED	KURT VERSEN P941232W277GEB	KIRLIN #FRR0901043(32)	
D7	[Symbol]	64	DOWNLIGHT 8" APERTURE FLUORESCENT	32WTRT 3500°K (2 LAMP)	RECESSED	KURT VERSEN P941232W277GEB	KIRLIN #FRR0901043(32)	
DB	[Symbol]	400	DOWNLIGHT INCANDESCENT	14 QUARTZ	RECESSED	FIRLIN RR30717		
DW	[Symbol]	60	DOWN LIGHT WALL WASHER	32WTRT 3500°K (1 LAMP)	RECESSED	LITHONIA DLWF1/32TRTBARMVOTL		
F0	[Symbol]	64	INDUSTRIAL STRIP FLUORESCENT WITH WIRE GUARD	F28T5 3500°K (2 LAMPS)	STEM	LITHONIA AF228MVOLTGBWGWZ		
F1	[Symbol]	64	ARCHITECTURAL WRAPAROUND ACRYLIC LENS	F28T5 3500°K (1 LAMP)	SURFACE	LITHONIA CA232AR120GEB		
F2A	[Symbol]	30	2' X2' LAY-IN FLUORESCENT VOLUMETRIC LENS	BX18 3500°K (2 LAMPS)	T-BAR	LITHONIA FBX1182BX18SMVOLTUPSWH		2 BALLAST PER FIXTURE
F2	[Symbol]	30	2' X2' LAY-IN FLUORESCENT ACRYLIC LENS	F14T5 3500°K (3 LAMPS)	T-BAR	LITHONIA 2AV G 2 14T5 MDR MVOLT GB99S		
F3	[Symbol]	60	2' X4' LAY-IN FLUORESCENT ACRYLIC LENS	F28T5 3500°K (3 LAMPS)	T-BAR	LITHONIA 2AVG328T5MDRMVOLT GB10PS		2 BALLAST PER FIXTURE
F4	[Symbol]	60	2' X4' LAY-IN FLUORESCENT ACRYLIC LENS	F28T5 3500°K (2 LAMPS)	T-BAR	LITHONIA 2AV G 2 28T5 MDR MVOLT GB99S		
F5	[Symbol]	128	INDUSTRIAL 10X UPLIGHT STRIP FLUORESCENT WITH REFLECTOR AND WIRE GUARD	F32T8 3500°K (4 LAMPS)	CHAIN HUNG	LITHONIA AF432277GEBWGWZ		
F6	[Symbol]	40	BATHROOM FIXTURE	39W CF	WALL	BEGA 4095P		
F7	[Symbol]		WALL WASHER	54T5HO	RECESSED	PEERLESS 2LWR9154T5SHOHL4MVOLT GB10LP835		
F8	[Symbol]		DISPLAY LIGHT	LED.	SURFACE	RADIANT #RASL-4-H0-35K		
F9	[Symbol]		STAIRWELL	42WGEL	SURFACE	BEGA 2338P		
P1	[Symbol]	24 PER FOOT	L'NEAR PENDANT INDIRECT / DIRECT EXTRUDED ALUMINUM FLUORESCENT	F32T5 3500°K (3 LAMPS)	PENDANT 10'-0" AFF	PEERLESS ENM2332WIN277GEBDCTF1		2 BALLAST PER FIXTURE VERIFY CUSTOM COLOR AND LENGTH AS NECESSARY 7 E6.9
P2	[Symbol]	24 PER FOOT	L'NEAR PENDANT INDIRECT EXTRUDED ALUMINUM FLUORESCENT	F32T5 3500°K (3 LAMPS)	PENDANT	PEERLESS ENM332277GEBDCTF2CXXX		VERIFY CUSTOM COLOR AND LENGTH 7 E6.9
PP1	[Symbol]	250	POLE LIGHT 25'-0"	250W MH	SO. STEEL POLE	KIM ERA POLE LIGHT 25' POLE & 250W MH TYPE 111		3 E3.0
S1	[Symbol]	15	RECESSED STEP LIGHT WITH LOUVER-BLACK	13W PL (2 LAMPS)	SURFACE	BEGA #2094P		
S2	[Symbol]	26	JELLY JAR CATWALK	26WCFPL	ABOVE CATWALK	HUBBELL VWX-151 (PROVIDE WITH COLORED JELLY JAR)		
S3	[Symbol]	150	PENDANT AT STAIRWELL	150W/MH	PENDANT	LOUS POULSEN # ENGM8A 825 1/70W/CMH/ T-6 G12		PROVIDE WITH FOR LOWING FIXTURE. ALADDIN # ALL300-90FEET-RM-ZDP-2 2300W-SLC, SEE 6 E3.0 & 4 E6.9
SS	[Symbol]	7.5	SIGN LIGHT	LED	SURFACE	AURORALIGHT #LDL3BRWCPNAT		ONE LIGHT FOR EACH LETTER-PROVIDE 12V POWER SUPPLY
SP	[Symbol]	250	MEDIUM BAY FLOOD LIGHT	(6) F40	STEM	SPORT LIGHT ACRYLIC DOME 6F4027735STEP		
UC	[Symbol]		UNDERCOUNTER	(2) 8W5	SURFACE	LITHONIA UC24MVOLTTSWR		
WL	[Symbol]		EXTERIOR WET LOCATION LUMINAIRE	(2) 32WTRT	SURFACE	LITHONIA WS02/32TRTWMVOLTWHG		VERIFY MOUNTING ELEVATION ON ARCHITECTURAL DWGS BOTTOM OF FIXTURE MINIMUM 80" AFF
X1	[Symbol]	26	SURFACE MOUNTED WALL LUMINAIRE WET LOCATION	26WPL 3500°K (1 LAMP)	WALL MOUNTED ABOVE DOOR	BEGA 2899P		
X3	[Symbol]	110	SMALL AREA HID WALL PACK	100W/MH (1 LAMP)	SURFACE	LITHONIA TWH100M277		
Y	[Symbol]	15	EXIT SIGN - LED VANDAL RESISTANT	RED LED	SURFACE	LITHONIA LVSR120/277BLN		

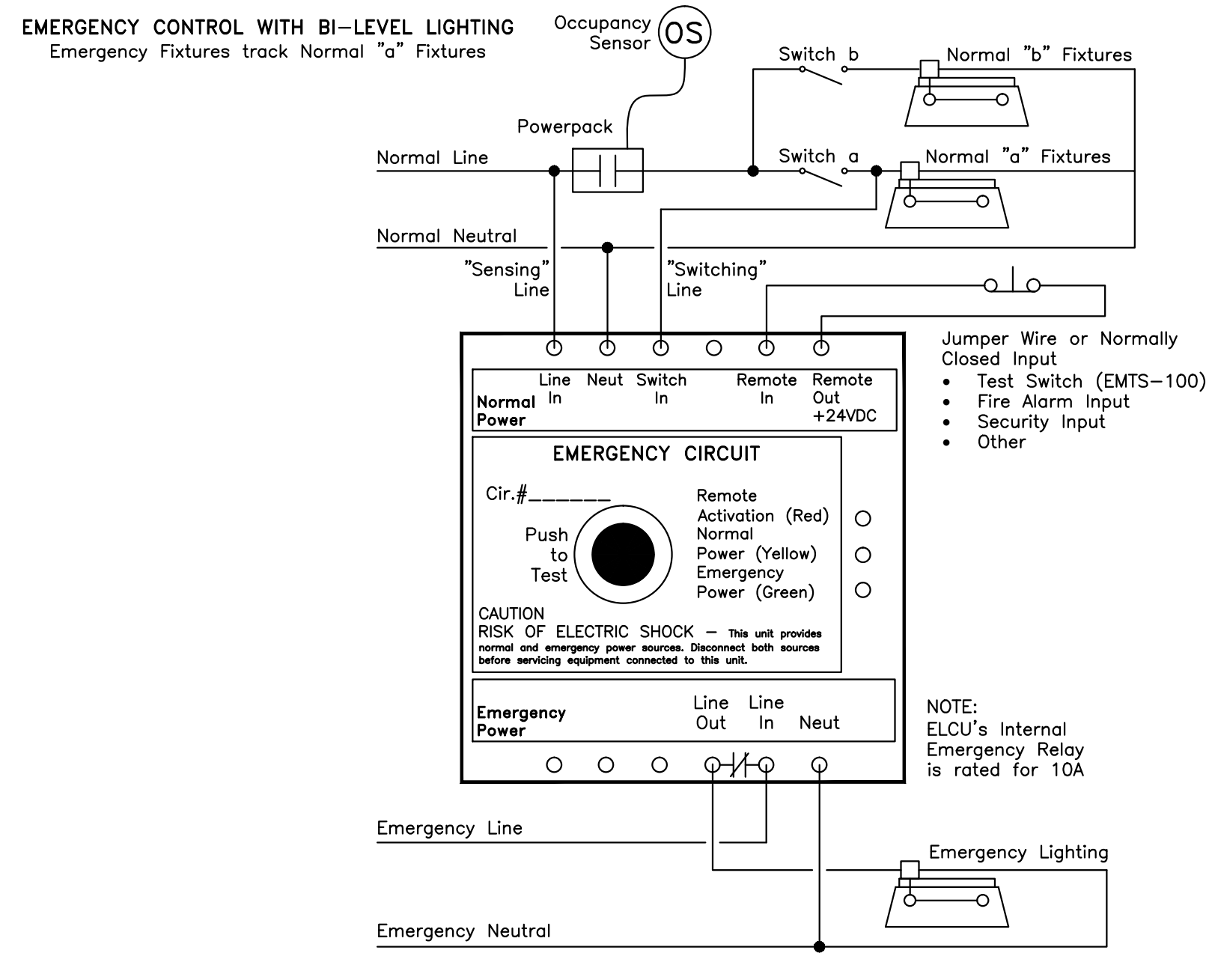
ALL LIGHTING FIXTURES SHALL BE SECURELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100 PERCENT OF THE LIGHT FIXTURE WEIGHT ACTING IN ANY DIRECTION. WHERE HEAVY DUTY SYSTEMS ARE USED, SUPPLEMENTAL HANGERS ARE NOT REQUIRED IF A 48 INCH MODULAR HANGER PATTERN IS FOLLOWED. WHEN CROSS RUNNERS ARE USED WITHOUT SUPPLEMENTAL HANGERS TO SUPPORT LIGHTING FIXTURES, THESE CROSS RUNNERS MUST PROVIDE THE SAME CARRYING CAPACITY AS THE MAIN RUNNER. LIGHTING FIXTURES WEIGHING 56 POUNDS OR MORE SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE PER STRUCTURAL DETAILS.



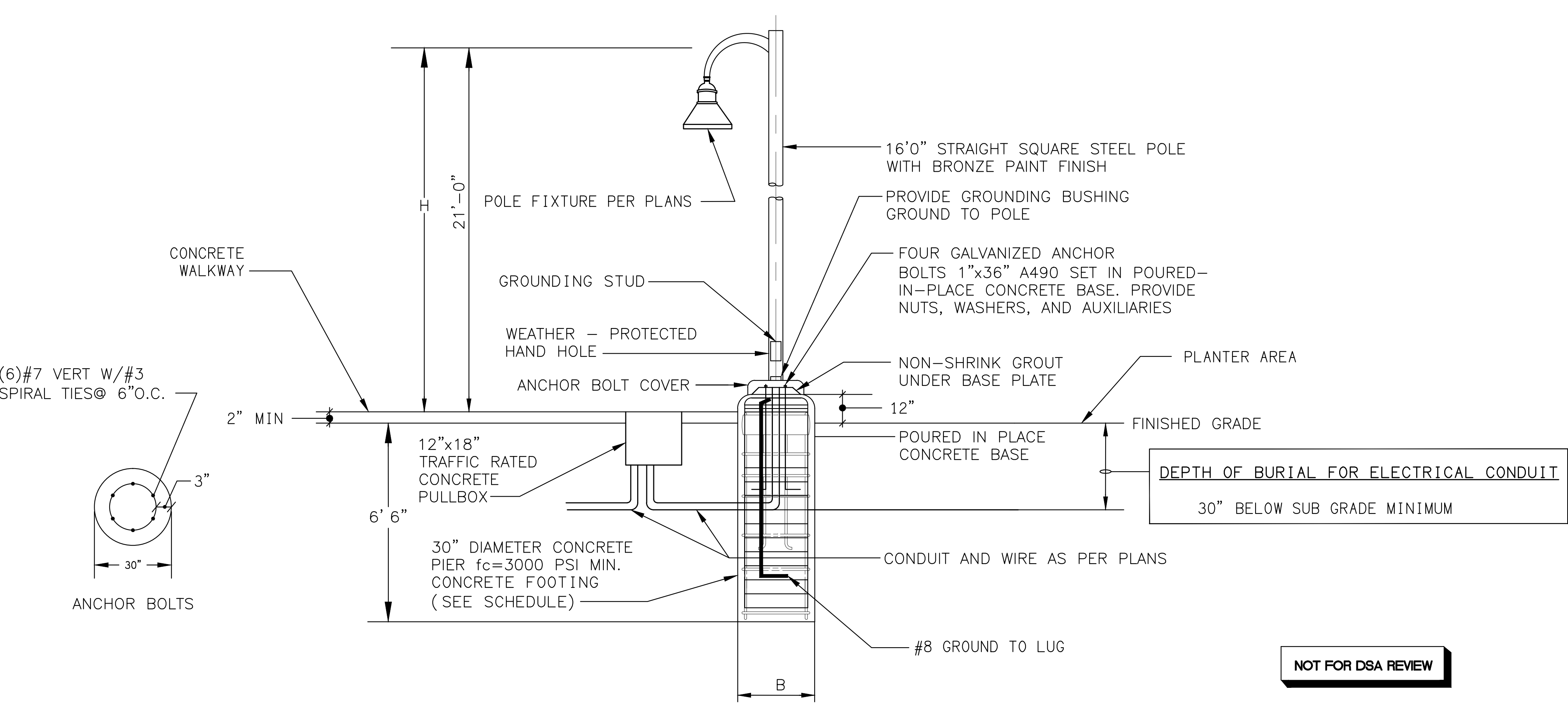
FIXTURE MOUNTING DETAIL 1
SCALE: NONE E3.0



BOLLARD MOUNTING DETAIL 5
SCALE: NONE E3.0



ELCU-100 BI-LEVEL LIGHTING 3
SCALE: NONE E3.0



POLE LIGHT BASE DETAIL 6
E3.0

NOT FOR DSA REVIEW



DAVID BURY & COMPANY ARCHITECTS LTD.

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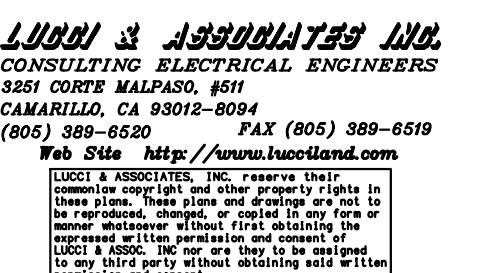
project:
Ventura College Theater, Bldg G Modernization

4667 Telegraph Rd.
Ventura, CA 93003

client:
Ventura County Community College District

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:



seal:

dsa: 03-112306

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: SB-C1
APPL. 03-112306
AC: FL: SS: DATE:

the original size of this drawing is 30" x 42"

Submissions / Revisions

NO.	DATE	DESCRIPTION

call by: 09/20/2010
print date: 09/20/2010
sheet title: LIGHTING FIXTURE SCHEDULE

E3.0



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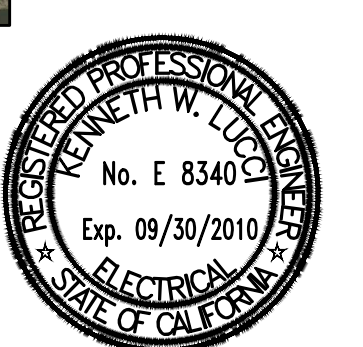
Ventura County
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(805) 389-6200 FAX (805) 389-6559
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seal:



dsa: 03-112306

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DATE _____

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Submissions / Revisions

NO.	DATE	REVISION

cad by: _____ chkd by: _____

print date: 09/20/2010

sheet title:
BASEMENT

LIGHTING PLAN

E3.1

SHEET NOTES:

- CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
- 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
- ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
- VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
- VERIFY AND PROVIDE JUNCTION BOXES, CONDUIT, DISCONNECT SWITCH, AND WIRING ASSOCIATED WITH SIGNAGE/GRAPHICS ON GRAPHICS/SIGNAGE DRAWINGS.
- ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY DIMMER RACK, POWER LINK PANELBOARD, PHOTOCELL, TIMELOCK, OR LIGHTING CONTROL RELAY SYSTEM UNLESS OTHERWISE NOTED.
- ALL LIGHTING FEEDERS (FROM LIGHT FIXTURES TO DIMMER RACKS) SHALL BE STRANDED #10 AWG THHN MINIMUM WITH DEDICATED NEUTRALS FOR EACH CIRCUIT. NO SHARED NEUTRALS ARE PERMISSIBLE. DERATING OF CONDUCTORS SHALL BE PER NEC 300-5 FOR COMBINED HOMERUNS WHERE EACH NEUTRAL IS A CURRENT CARRYING CONDUCTOR.

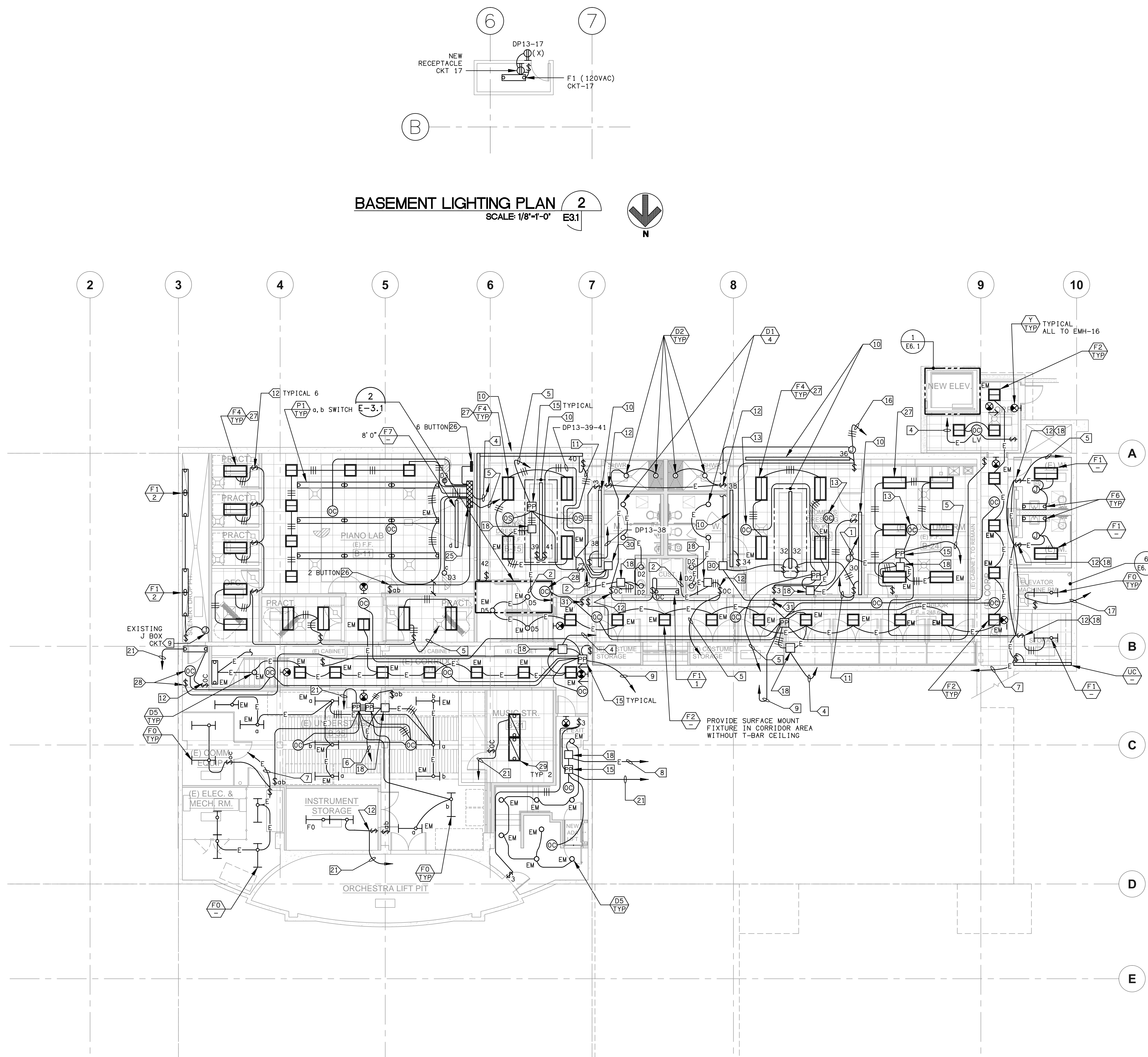
KEY NOTES:

- EMH-7.
- EMH-5.
- EMH-1.
- EMH-3.
- HC-3.
- EMH-11.
- EMH-13.
- EMH-9.
- HC-1.
- SEE DETAIL 15, 16, 17 OF A4.10 FOR WEIGER LITES ON DRESSING ROOM FURNITURE CONNECT TO CIRCUITS AS NOTED.
- DP13-40-42.
- WALL MOUNTED OCCUPANCY SENSOR - WATTSTOPPER #DW-200 OR APPROVED EQUAL.
- CEILING MOUNTED OCCUPANCY SENSOR - WATTSTOPPER #DT-305.
- CORRIDOR OCCUPANCY SENSOR - WATTSTOPPER #DT-305.
- POWER PACK FOR OCCUPANCY SENSOR - WATTSTOPPER #BZ-100.
- DP13-36-34.
- EMH-41.
- EMERGENCY TRANSFER RELAY - WATTSTOPPER ELCU-100 OR LC & D GR2001.
- DP13-30-32.
- DP13-35-37.
- HC-24.
- AREA OVERRIDE SWITCH.
- DP13-39-41.
- LABEL "OCCUPANCY SENSOR OVERRIDE".
- LC & D GR 2408-6-2DH-OV-WITH AUX EMERGENCY CABINET.
- CHELSEA DIGITAL SWITCH.
- ab SWITCH.
- MOUNTED AT LEVEL ABOVE.
- LITHONIA 2M232MVOLT GEB 101 MOUNTED TO BOTTOM OF T-BAR STRUCTURE.
- (2) 12 POLE CONTACTOR
- PILOT LIGHTED SWITCH LABELED "MAKE UP POWER / LIGHTING SEE ESK 172

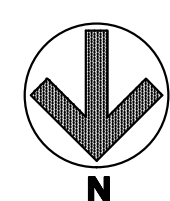
**SEE AV DRAWINGS FOR
ADDITIONAL DEVICES**

LEGEND	
\$oc	WALL SWITCH SENSOR WATTSTOPPER #DW100
\$2oc	WALL SWITCH SENSOR WATTSTOPPER #DW200
OC	WATTSTOPPER OCCUPANCY SENSOR #DT305
FP	POWER PACK WATTSTOPPER #BZ100
OC	LINE VOLTAGE OCCUPANCY SENSOR WATTSTOPPER #DT355

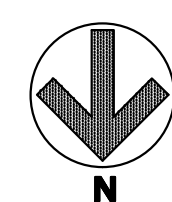
**LABEL ALL OCCUPANCY SENSOR
SWITCHES WITH ENGRAVED COVER PLATE**

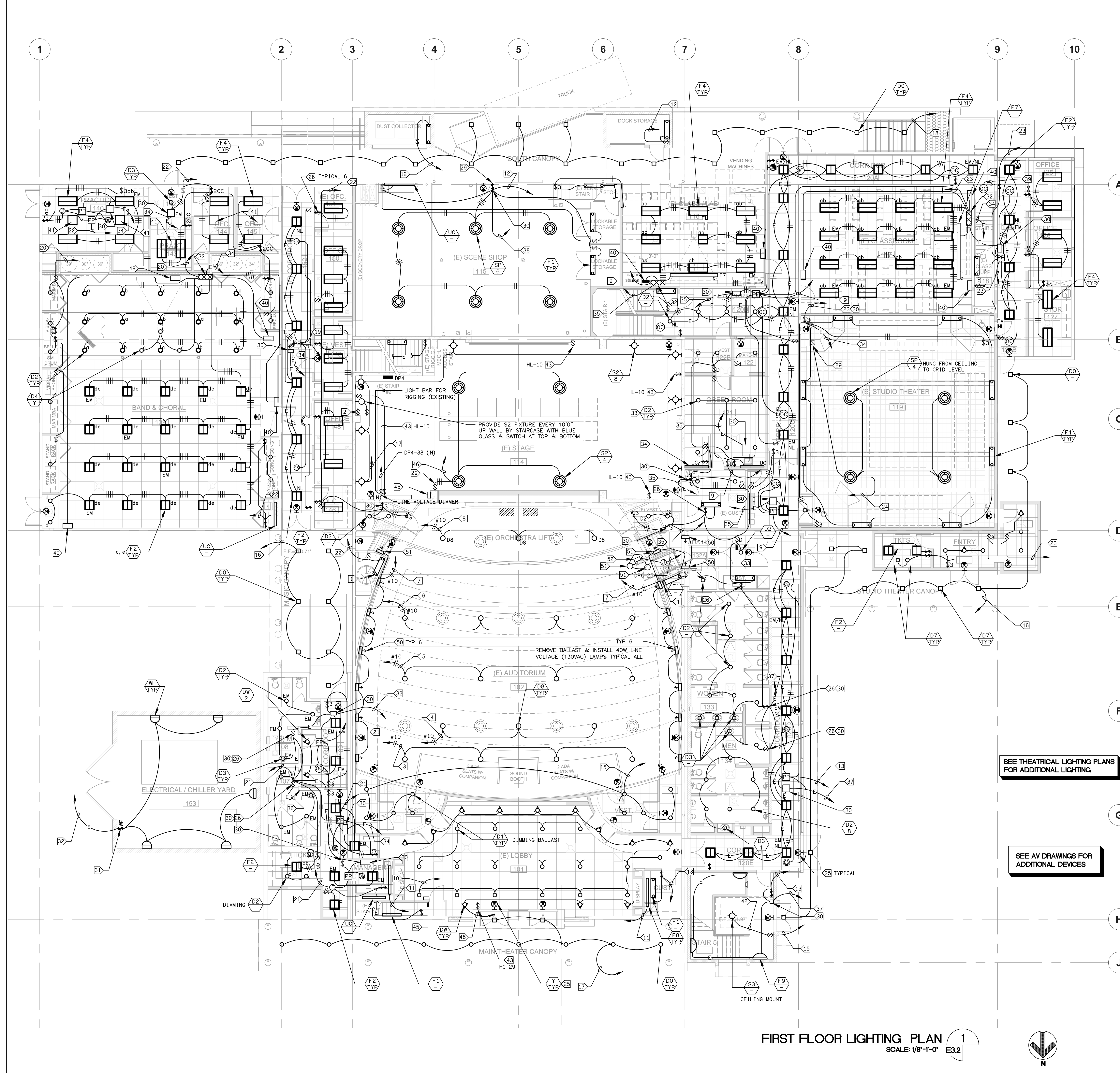


BASEMENT LIGHTING PLAN 2
SCALE: 1/8"=1'-0" E3.1



BASEMENT LIGHTING PLAN 1
SCALE: 1/8"=1'-0" E3.1





- SHEET NOTES:**
- CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
 - CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
 - 3/4" CONDUIT UNLESS OTHERWISE NOTED.
 - ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
 - VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
 - MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
 - ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
 - VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
 - COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
 - PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
 - VERIFY AND PROVIDE JUNCTION BOXES, CONDUIT, DISCONNECT SWITCH, AND WIRING ASSOCIATED WITH SIGNAGE/GRAPHICS ON GRAPHICS/SIGNAGE DRAWINGS.
 - ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY DIMMER RACK, POWER LINK PANELBOARD, PHOTOCELL, TIMECLOCK, OR LIGHTING CONTROL RELAY SYSTEM UNLESS OTHERWISE NOTED.
 - ALL LIGHTING FEEDERS (FROM LIGHT FIXTURES TO DIMMER RACKS) SHALL BE STRANDED #10 AWG THRU MINIMUM WITH DEDICATED NEUTRALS FOR EACH CIRCUIT. NO SHARED NEUTRALS ARE PERMISSIBLE. DERATING OF CONDUCTORS SHALL BE PER NEC 300-5 FOR COMBINED HOMERUNS WHERE EACH NEUTRAL IS A CURRENT CARRYING CONDUCTOR.
- KEY NOTES:**
- PROVIDE BLUE SLEEVES FOR LAMPS OF ALL FLUORESCENT FIXTURES.
 - NEW SWITCH & (10) LENS JELLY JAR HUBBELL UW-151 UP WALL WITH SPIRAL STAIRCASE.
 - HL-1.
 - HL-2.
 - HL-3.
 - HL-4.
 - HL-5.
 - HL-6.
 - HL-7.
 - HL-8.
 - HL-9.
 - HL-10.
 - HL-11.
 - HL-12.
 - HL-13.
 - HL-14.
 - HL-15.
 - HL-16.
 - HL-17.
 - HL-18.
 - HL-19.
 - HL-20.
 - HL-21.
 - HL-22.
 - HL-23.
 - HL-24.
 - CONNECT ALL 'Y' AND 'Y1' TO EMH-16.
 - WALL MOUNTED OCCUPANCY SENSOR WATTSTOPPER #DW-200.
 - CEILING MOUNTED OCCUPANCY SENSOR WATTSTOPPER #DT-305.
 - POWER PACK FOR OCCUPANCY SENSOR WATTSTOPPER #BZ-100.
 - FIXTURE SP CONTROLLER FOR 2, 4, 6 LAMPS.
 - WATTSTOPPER ELCU-100 (EMERGENCY LIGHTING CONTROL UNIT) OR LC & D OR SENSOR SWITCH EQUAL.
 - CONNECT VIA PHOTOCELL.
 - LC & D MICROANEL 2408-06-2DV-DC WITH AUXILIARY EMERGENCY ENCLOSURE.
 - WITH DIMMING BALLAST, PROVIDE DIMMER SWITCHES FOR ROOMS 122B, 122, 121 AND EXTRA ROOM.
 - EMH-15.
 - EMH-17.
 - EMH-19.
 - EMH-21.
 - EMH-23.
 - TO OCCUPANCY SENSOR ON LEVEL ABOVE.
 - CHELSEA 4 BUTTON SWITCH.
 - DIMMABLE SKYLIGHT/LIGHT TUBE, PROVIDE SOLATUBE DIMMER SWITCH AT DOOR AND FEEDER TO SKYLIGHT, CONNECT TO SAME CIRCUIT AS LIGHTING.
 - TO LIGHT FIXTURE ABOVE.
 - MOMENTARY SWITCH FOR 'HC' LITE CONNECT TO PANEL WITH 2#14 STRANDED, CIRCUIT AS NOTED.
 - HL-9.
 - ETC ARCHITECTURAL LIGHTING CONTROL STATION PROVIDE WITH CONTROL CABLES.
 - HL-11.
 - HL-10.
 - HL-12.
 - CHELSEA 6 BUTTON SWITCH.
 - TYPE BST - BEGA # 2312 BLK.
 - TYPE BSS - BEGA # 2601 BLK.
 - 20A, 240VAC 2 POLE DISCONNECT.

SEE THEATRICAL LIGHTING PLANS FOR ADDITIONAL LIGHTING

SEE AV DRAWINGS FOR ADDITIONAL DEVICES

FIRST FLOOR LIGHTING PLAN 1
SCALE 1/8"=1'-0" E3.2

LEGEND

SW	WALL SWITCH SENSOR WATTSTOPPER #DW100
SW2	WALL SWITCH SENSOR WATTSTOPPER #DW200
OC	WATTSTOPPER OCCUPANCY SENSOR #DT305
PP	POWER PACK WATTSTOPPER #BZ100
CC	LINE VOLTAGE OCCUPANCY SENSOR WATTSTOPPER #DT355
HL	HOUSE LIGHTING UL 924 EMERGENCY DIMMER



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Ventura, CA 93001

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COSTA MESA, CA 92626-5094
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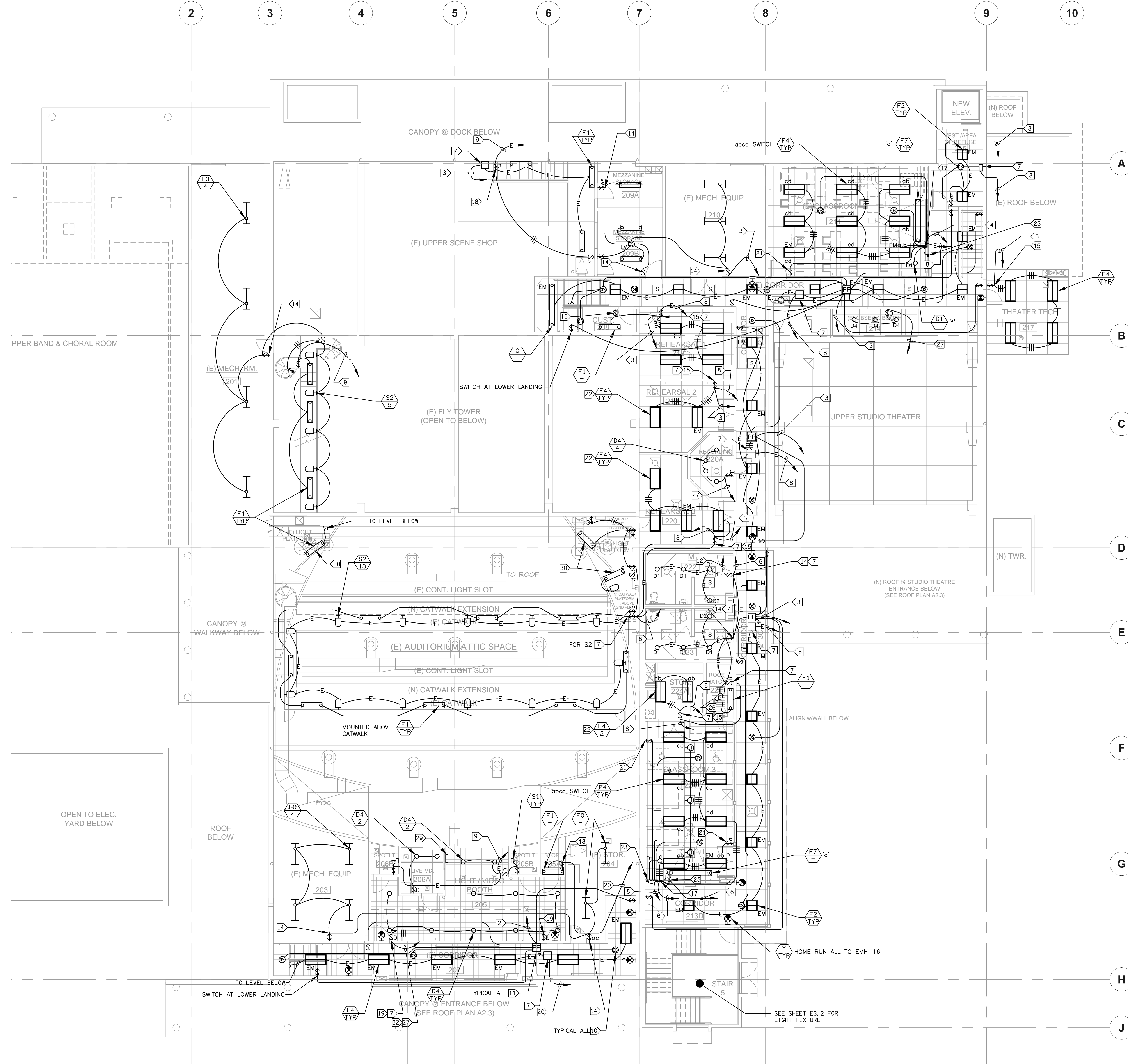
the original size of this drawing is 30" x 42"

Submissions / Revisions

NO.	DATE	REVISION

sheet title: **FIRST FLOOR LIGHTING PLAN**

E3.2



SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
2. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
3. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
4. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
5. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
6. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
8. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
9. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
10. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
11. VERIFY AND PROVIDE JUNCTION BOXES, CONDUIT, DISCONNECT SWITCH, AND WIRING ASSOCIATED WITH SIGNAGE/GRAPHICS ON GRAPHICS/SIGNAGE DRAWINGS.

SEE AV DRAWINGS FOR
ADDITIONAL DEVICES

KEY NOTES:

- 1 HC-19.
- 2 HC-21.
- 3 HC-23.
- 4 HC-25.
- 5 HC-27.
- 6 HC-31.
- 7 EMERGENCY TRANSFER RELAY - WATTSTOPPER ELCU-100 OR LC & D GR2001.
- 8 EMH-24.
- 9 EMH-32.
- 10 CORRIDOR OCCUPANCY SENSOR WATTSTOPPER #DT-305.
- 11 POWER PACK WATTSTOPPER #BZ-100.
- 12 EMH-26.
- 13 ROOM CEILING OCCUPANCY SENSOR #DT-305.
- 14 WALL SWITCH OCCUPANCY SENSOR #DW-100.
- 15 TWO LEVEL OCCUPANCY SENSOR #DW-200.
- 16 EMH-28.
- 17 LC&D MICRO PANEL, 2408-06-2DV-DC WITH AUXILIARY EMERGENCY ENCLOSURE.
- 18 0-15 MINUTE ELECTRONIC TIMED SWITCH.
- 19 LUTRON MAJESTRO DUAL LOCATION DIMMER.
- 20 EMH-30.
- 21 4 BUTTON CHELSEA DIGITAL SWITCH(CONNECT TO 17 VIA CAT5).
- 22 AB SWITCH.
- 23 6 BUTTON CHELSEA DIGITAL SWITCH(CONNECT TO 17 VIA CAT5).
- 24 DP11-28.
- 25 SOLATUBE SKYLIGHT DIMMER SWITCH.
- 26 TO SWITCH AT LEVEL ABOVE.
- 27 DP11-40.
- 28 EMH-34.
- 29 ETC ARCHITECTURAL LIGHTING CONTROL STATION.
- 30 PROVIDE BLUE GEL TUBE SLEEVES FOR LAMPS.

LEGEND

	WALL SWITCH SENSOR WATTSTOPPER #DW100
	WALL SWITCH SENSOR WATTSTOPPER #DW200
	WATTSTOPPER OCCUPANCY SENSOR #DT305
	POWER PACK WATTSTOPPER #BZ100
	LINE VOLTAGE OCCUPANCY SENSOR WATTSTOPPER #DT355

SECOND FLOOR LIGHTING PLAN
SCALE: 1/8"=1'-0"
E3.3



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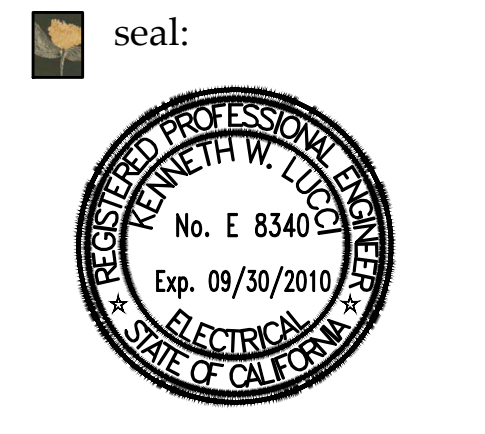
4667 Telegraph Rd.
Ventura, CA 93003

client:
Ventura County Community College District

255 W. Stanley Ave, Suite 250
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consultant:

LD&S ASSOCIATES INC.
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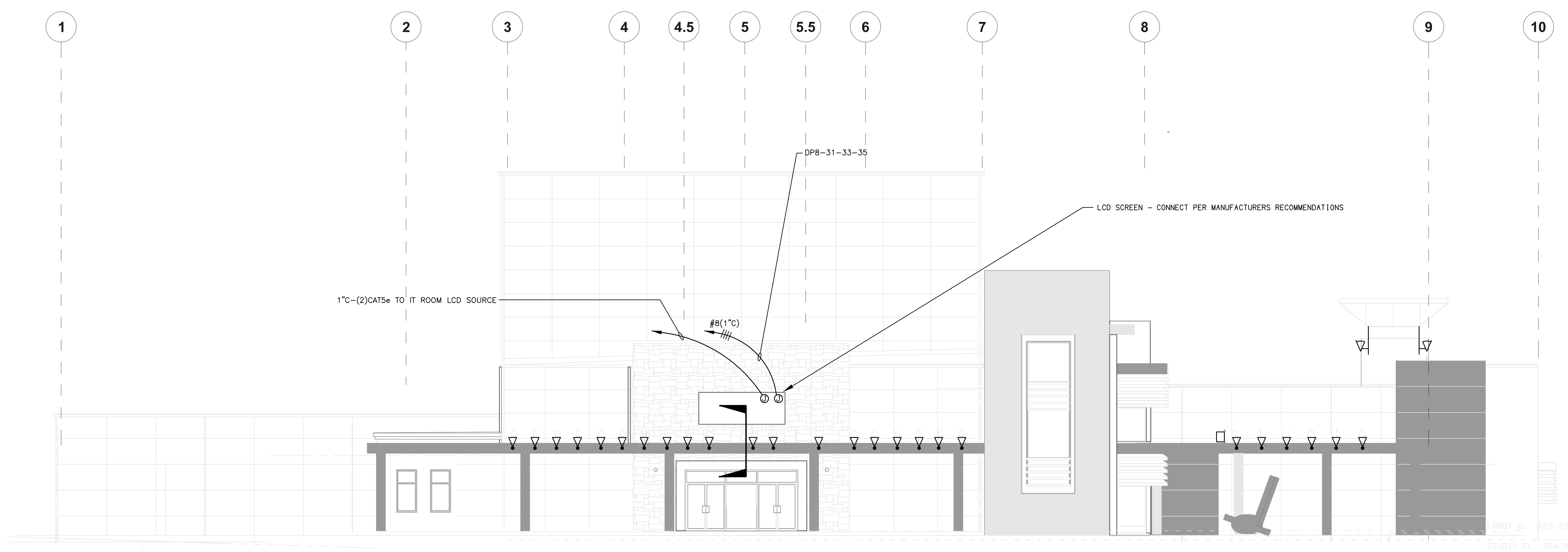
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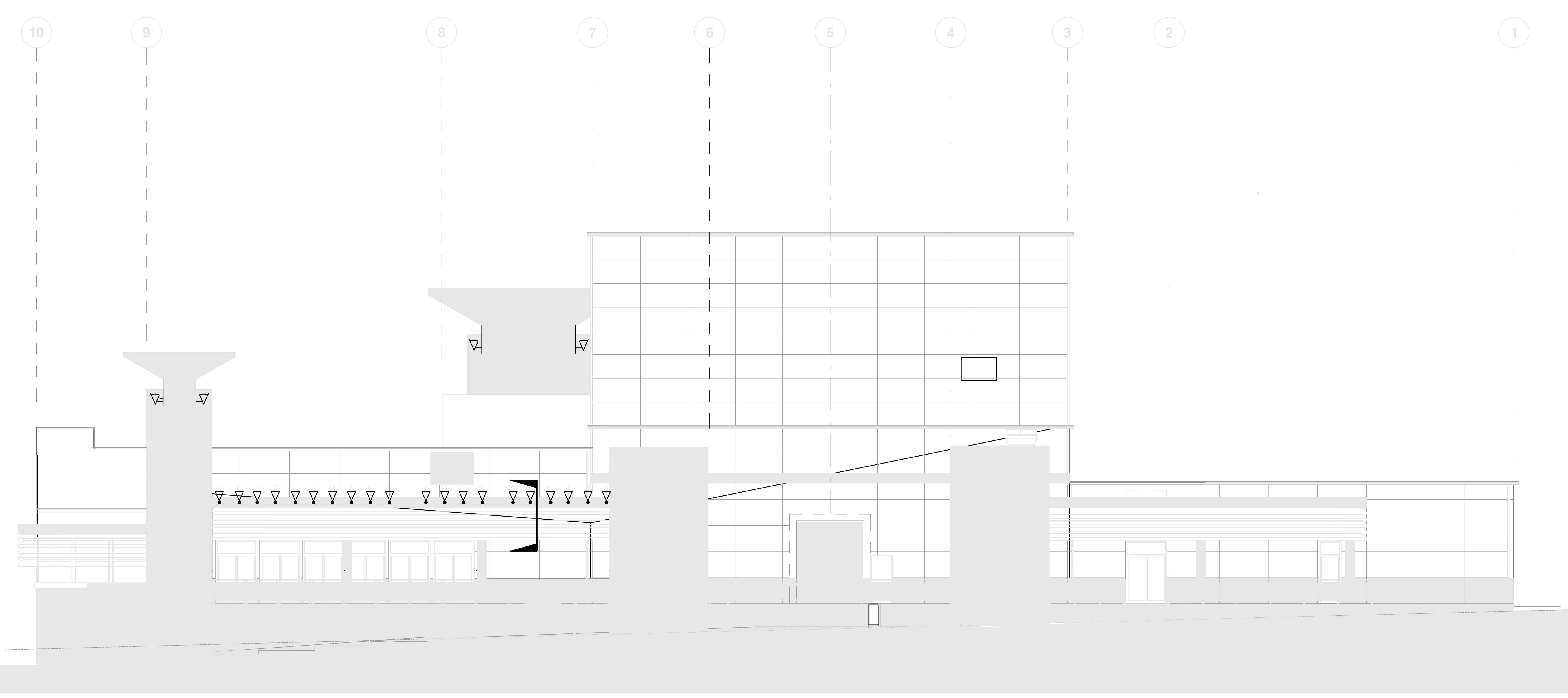
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sheet title:
SECOND FLOOR LIGHTING PLAN

E3.3



NORTH ELEVATION LIGHTING PLAN 1
SCALE: 1/8"-1'-0" E3.5

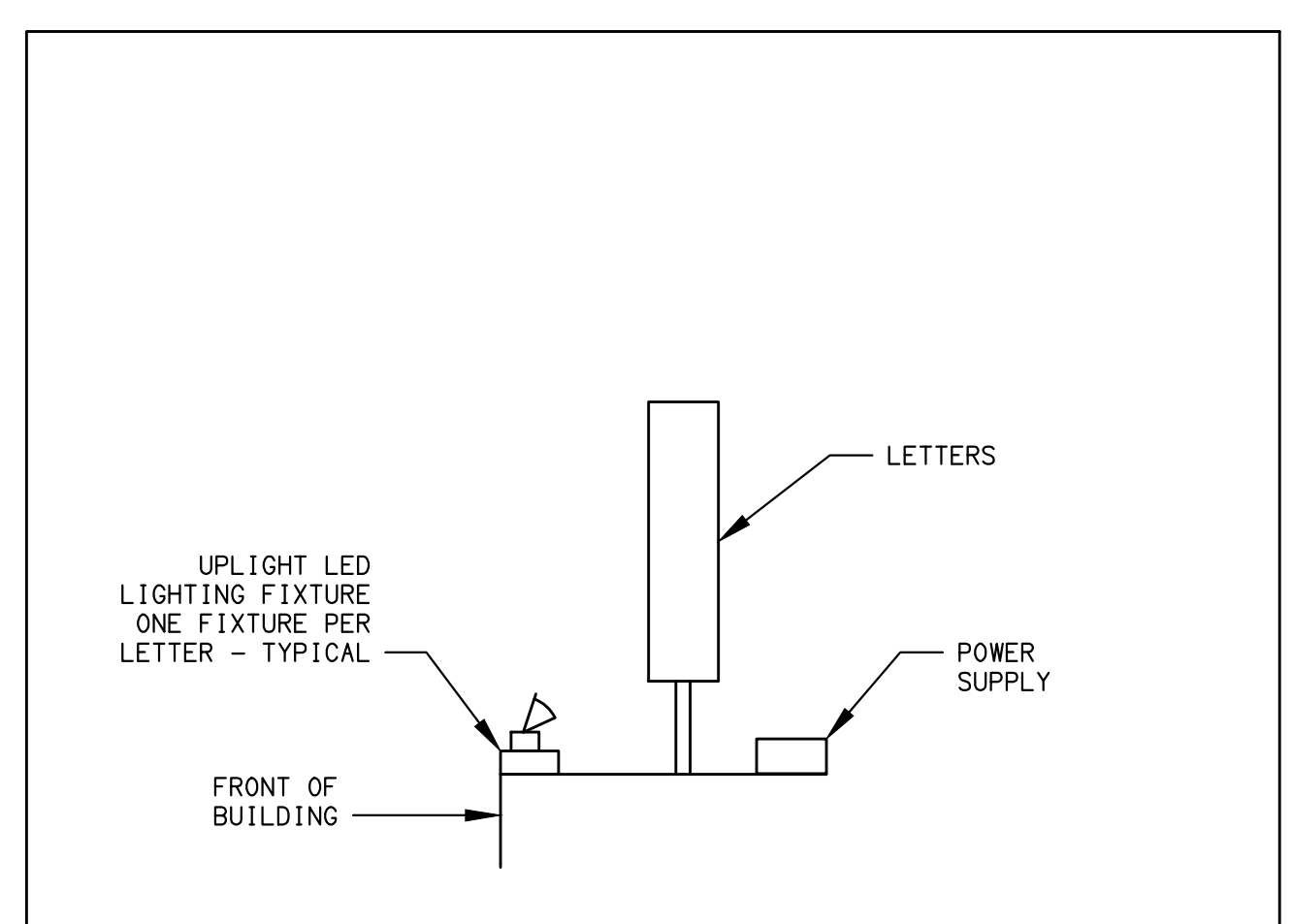


SOUTH ELEVATION LIGHTING PLAN 2
SCALE: 1/8"-1'-0" E3.5

SHEET NOTES:

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3. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
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SEE AV DRAWINGS FOR ADDITIONAL DEVICES



LETTER SECTION 3
TYPICAL ALL SCALE: NONE E3.5



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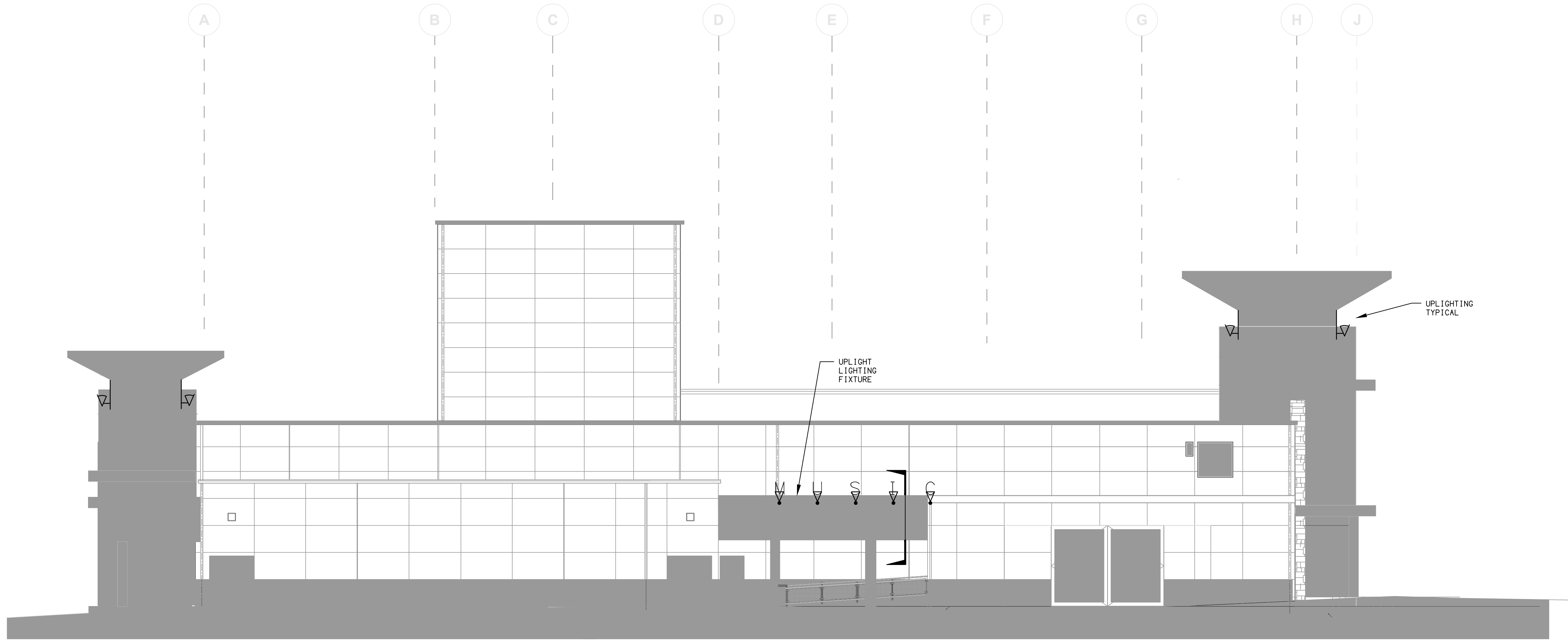
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No.	Date	Description

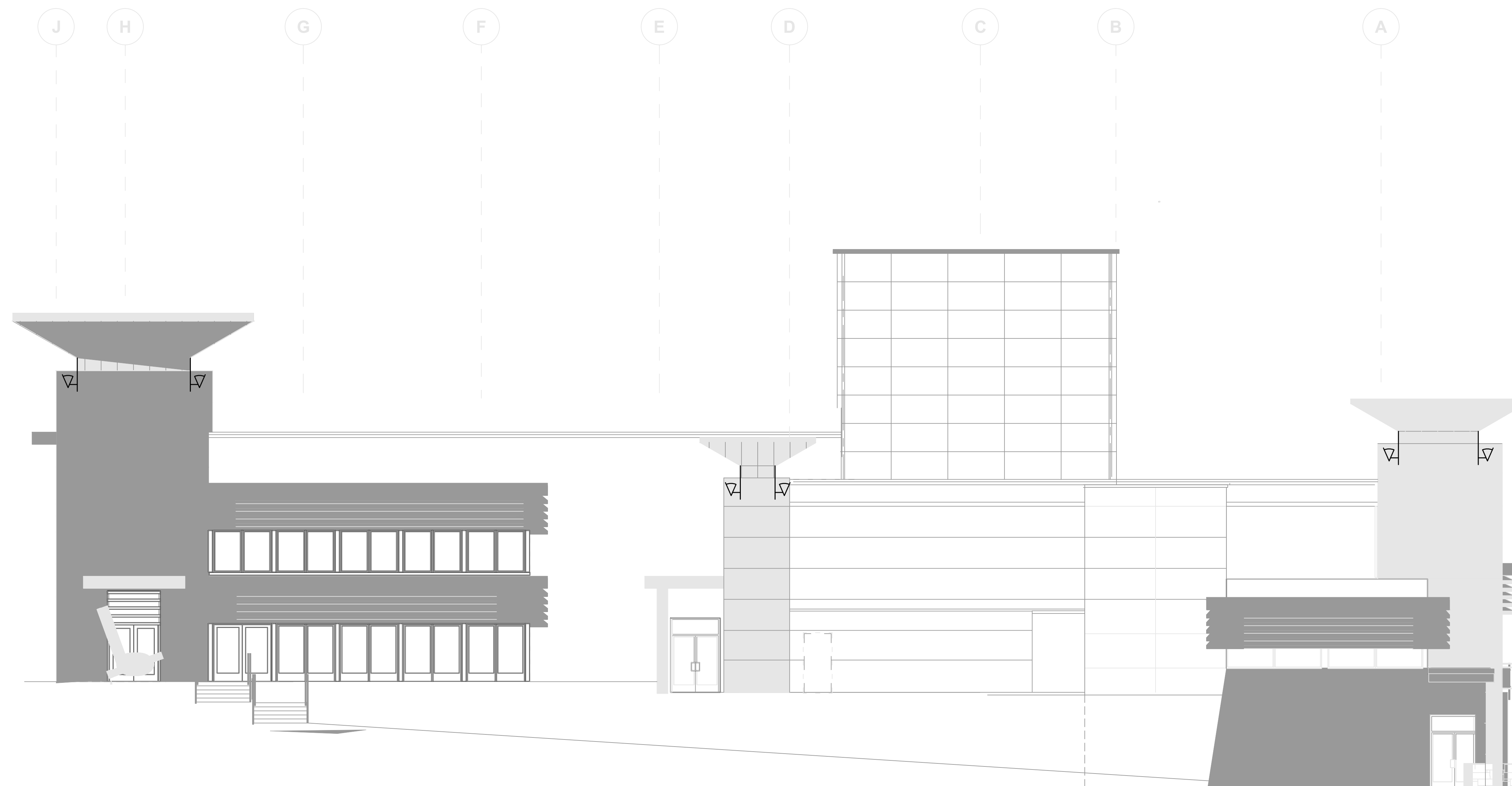
cad by: _____ chkd by: _____
print date: 09/20/2010
sheet title:
NORTH AND SOUTH EXTERIOR LIGHTING ELEVATION

E3.5

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EAST ELEVATION LIGHTING PLAN 1
SCALE: 1/8"-1'-0" E3.6



WEST ELEVATION LIGHTING PLAN 2
SCALE: 1/8"-1'-0" E3.6

SHEET NOTES:

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SEE AV DRAWINGS FOR
ADDITIONAL DEVICES



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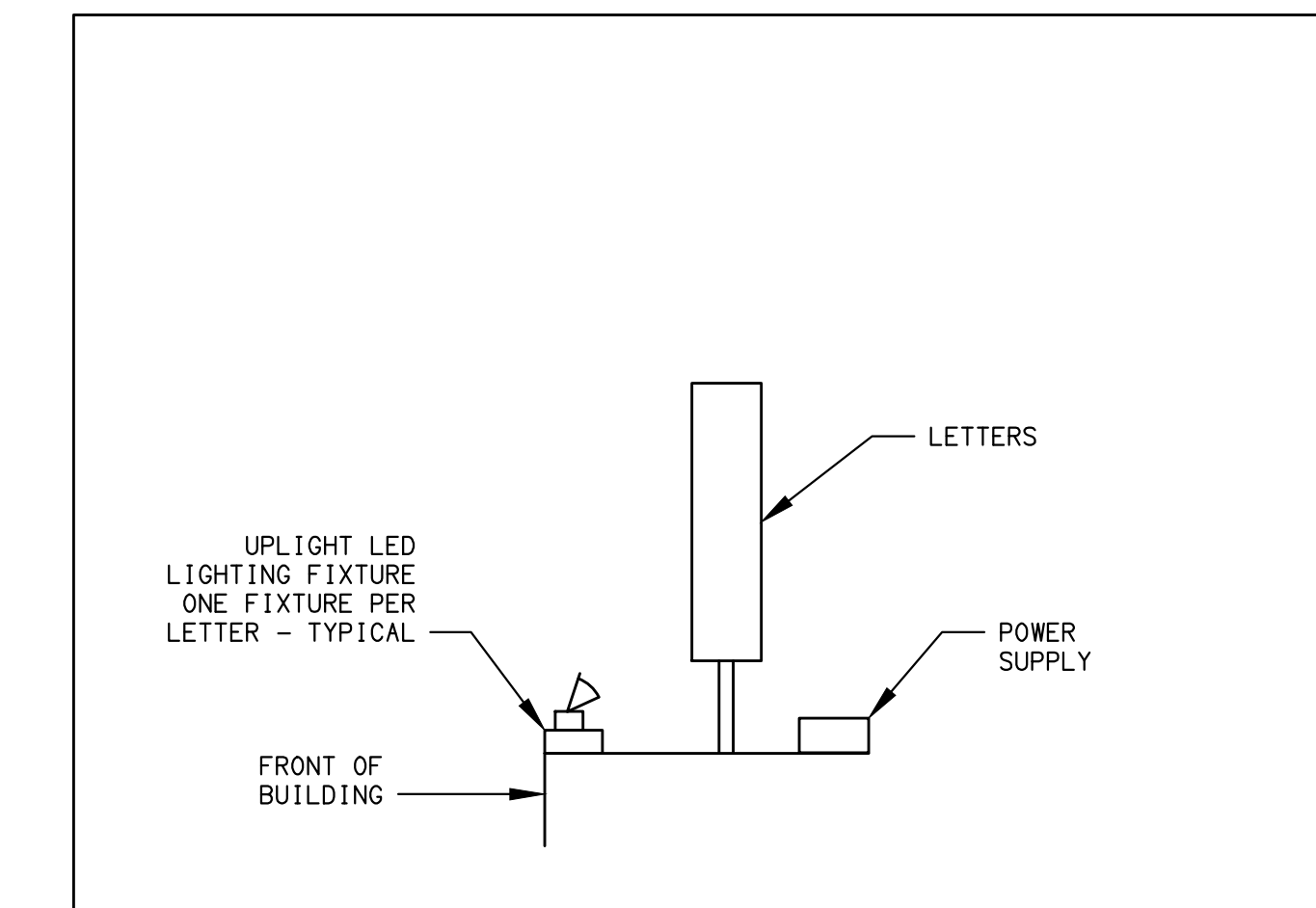
LUONI & ASSOCIATES INC.
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LETTER SECTION 3
TYPICAL ALL SCALE: NONE E3.5

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NO.	REVISION	DATE

cad by: _____ chkd by: _____

print date: 09/20/2010

sheet title: EAST AND WEST

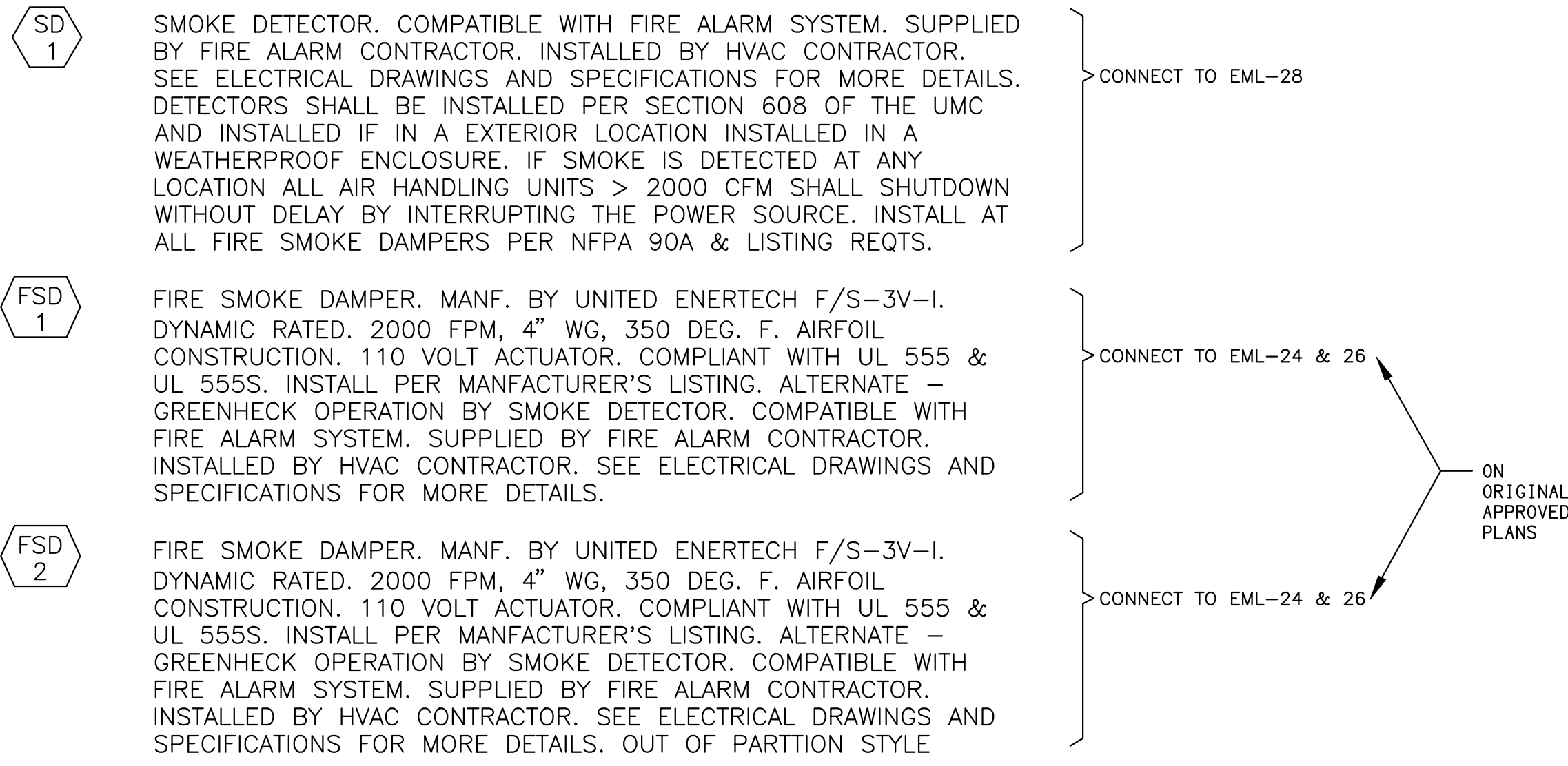
EXTERIOR LIGHTING ELEVATION

E3.6

ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT													
TAG #	DESCRIPTION	H.P.	FLA	MAX OCP	VOLTAGE	PHASE	NEMA STARTER SIZE	DISCONNECT	RECOMMENDED FUSE SIZE/TYP*	REMARKS	PANEL/CIRCUIT NO.	FEEDER	
AHU 1	AIR HANDLER #1	3(3)	.	.	480	3	.	30A/3P	.	VFD	HA-1-3-5	3/4"C-3#10 & 1#10 GND	
AHU 2	AIR HANDLER #2	3(3)	.	.	480	3	.	30A/3P	.	VFD	HA-7-9-11	3/4"C-3#10 & 1#10 GND	
AHU 3	AIR HANDLER #3	3	.	.	480	3	.	20A/3P	.		HA-13-15-17	3/4"C-3#10 & 1#10 GND	
B 1A	BOILER 1A	.	.	30	115	1	.	30A/3P	.		DP1-38	3/4"C-2#10 & 1#10 GND	
B 1B	BOILER 1B	.	.	30	115	1	.	30A/3P	.		DP1-40	3/4"C-2#10 & 1#10 GND	
CH 1	CHILLER	.	.	250	480	3	.	PER SHEET E2.0	.		WSB-5	PER SHEET E2.0	
EF 1	EXHAUST FAN #1	3/4	.	.	208	1	0	20A/2P	.	120VAC COIL	DP11-28-30	3/4"C-3#12 & 1#12 GND	
EF 2	EXHAUST FAN 2	1/4	.	.	208	1	0	20A/2P	.	120VAC COIL	DP10-29-31	3/4"C-3#12 & 1#12 GND	
EF 3	EXHAUST FAN 3	3/4	.	.	208	1	0	20A/2P	.	120VAC COIL	DP10-33-35	3/4"C-3#12 & 1#12 GND	
EF 4	EXHAUST FAN 4	1/4	.	.	208	1	0	20A/2P	.	120VAC COIL	DP12-29-31	3/4"C-3#12 & 1#12 GND	
EF 5	EXHAUST FAN 5	1/4	.	.	208	1	0	20A/2P	.	120VAC COIL	DP11-32-34	3/4"C-3#12 & 1#12 GND	
EF 6A	EXHAUST FAN 6A	1/4	.	.	208	1	0	20A/2P	.	120VAC COIL	DP14-8-10	3/4"C-3#12 & 1#12 GND	
EF 6B	EXHAUST FAN 6B	1/4	.	.	208	1	0	20A/2P	.	120VAC COIL	DP11-36-38	3/4"C-3#12 & 1#12 GND	
EF 7	EXHAUST FAN 7	1/4	.	.	208	1	0	20A/2P	.	120VAC COIL	DP14-12-14	3/4"C-3#12 & 1#12 GND	
EF 8	EXHAUST FAN 8	1/6	.	.	208	1	0	20A/2P	.	120VAC COIL	DP10-37-39	3/4"C-3#12 & 1#12 GND	
EF 9	EXHAUST FAN 9	1/2	.	.	208	1	0	20A/2P	.	120VAC COIL	DP14-20-22	3/4"C-3#12 & 1#12 GND	
EF 10	EXHAUST FAN 10	1/4	.	.	208	1	0	20A/2P	.	120VAC COIL	DP14-16-18	3/4"C-3#12 & 1#12 GND	
FC 1	FAN COIL #1	.	5.4	.	208	1	1	20A/2P	.	120VAC COIL	DP12-33-35	3/4"C-3#12 & 1#12 GND	
FC 2	FAN COIL #2	.	7.0	.	208	3	1	20A/3P	.	120VAC COIL	DP11-11-13-15	3/4"C-3#12 & 1#12 GND	
FC 3	FAN COIL #3	.	2.8	.	208	1	1	20A/2P	.	120VAC COIL	DP8-37-39-41	3/4"C-3#12 & 1#12 GND	
FC 4	FAN COIL #4	.	1.6	.	208	1	1	20A/2P	.	120VAC COIL	DP6-33-35	3/4"C-3#12 & 1#12 GND	
FC 5	FAN COIL #5	.	4.3	.	208	1	1	20A/2P	.	120VAC COIL	DP14-1-3	3/4"C-3#12 & 1#12 GND	
FC 6	FAN COIL #6	.	8.3	.	208	1	1	20A/2P	.	120VAC COIL	DP14-5-7	3/4"C-3#12 & 1#12 GND	
FC 7	FAN COIL #7	.	7.0	.	208	3	1	20A/3P	.	120VAC COIL	DP14-28-30-32	3/4"C-3#12 & 1#12 GND	
FC 8	FAN COIL #8	.	14.2	.	208	3	1	30A/3P	.	120VAC COIL	DP14-2-4-6	3/4"C-4#10 & 1#10 GND	
FC 9	FAN COIL #9	.	8.3	.	208	1	1	20A/2P	.	120VAC COIL	DP14-13-15	3/4"C-3#12 & 1#12 GND	
FC 10	FAN COIL #10	.	8.3	.	208	3	1	20A/3P	.	120VAC COIL	DP14-34-36-38	3/4"C-3#12 & 1#12 GND	
FC 11	FAN COIL #11	.	5.3	.	208	3	1	20A/3P	.	120VAC COIL	DP1-30-32	3/4"C-4#10 & 1#10 GND	
FC 12	FAN COIL #12	.	1.6	.	208	1	1	20A/2P	.	120VAC COIL	DP1-34-36	3/4"C-3#12 & 1#12 GND	
P 1A	COLD WATER PUMP 1A	3	.	.	460	3	1	20A/3P	.	120VAC COIL	HA-34-36-38	3/4"C-3#10 & 1#10 GND (PLUS DP8-11 - 120VAC)	
P 2A	HOT WATER PUMP 2A	5	.	.	460	3	1	20A/3P	.	VFD	HA-25-27-29	3/4"C-3#10 & 1#10 GND	
P 1B	COLD WATER PUMP 1B	7.5	.	.	460	3	2	30A/3P	.	120VAC COIL	HA-19-21-23	3/4"C-3#10 & 1#10 GND (PLUS DP8-11 - 120VAC)	
WH 1A	WATER HEATER 1A/ RECIRCULATING PUMP	.	3.8/7	.	480/115	3	.	30A/3P	.		HA-40-42	3/4"C-3#10 & 1#10 GND	
WH 1B	WATER HEATER 1B/ RECIRCULATING PUMP	.	3.8/7	.	480/115	3	.	30A/3P	.		HA-30-32	3/4"C-3#10 & 1#10 GND	
WH 3	WATER HEATER 3	.	40	.	208	1	.	40A/3P	.		DP4-40-42	3/4"C-3#8 & 1#10 GND	
DC 1	DUST COLLECTOR	5	20	.	480	3	2	30A/3P	.	PROVIDE WITH ADDITIONAL AUX REMOTE CONTROLLER IN SHOP WITH MUSHROOM BUTTON	HA-37-39-41	3/4"C-4#10 & 1#10 GND	

* ALL FUSES BY BUSSMANN AND SHALL BE SIZED PER MANUFACTURERS RECOMMENDATION.

MECHANICAL / FIRE ALARM EQUIPMENT



SHEET NOTES:

- FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
- SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR ELECTRICAL REQUIREMENTS.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
- THE LOCATION OF ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS.
- PROVIDE ROOF JACKS AND PROPERLY SEAL ALL ROOF PENETRATIONS TO A LEAK FREE CONDITION.
- THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER N. E. C. ARTICLE 351-8.
- PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
- PROVIDE ALL DEVICES AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
- NO CONDUIT/FEEDER SHALL BE PERMITTED ON THE ROOF WITH CRIPPLES. ALL FEEDERS SHALL BE RUN BENEATH THE ROOF.
- ALL DISCONNECTS SHALL BE MOUNTED ON UNISTRUT ON AH UNIT.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN & INSTALLATION.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTRACTOR PROVIDED.

KEY NOTES:

- FOR FEEDER AND CIRCUIT INFORMATION SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT.

PROVIDE LOCAL POWER TO EMS CONTROL AT ALL MOTORS - CONNECT TO DP6-37

CONTRACTOR SHALL VERIFY LOCATION OF ALL SD, FSD1 AND FSD2 LOCATIONS PER MECHANICAL PLANS

CONDENSATE PUMPS TO BE CONNECT TO EITHER DP14-21 OR DP14-23.



DAVID BURY & COMPANY ARCHITECTS LTD.

215 Church Rd. Ojai, CA 93023 T: 805.646.4817 F: 805.646.3924

project:

Ventura College Theater, Bldg G Modernization

4667 Telegraph Rd. Ventura, CA 93003

client:

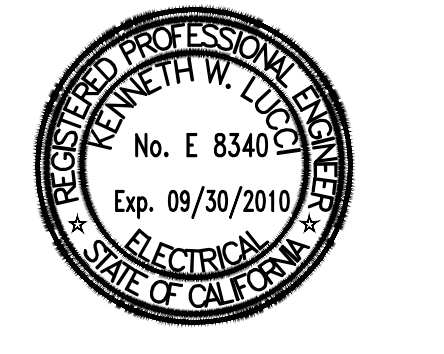
Ventura County Community College District

255 W. Stanley Ave, Suite 250 Ventura, CA 93001

consultant:

LISA J. ASSARATI, INC.
CONSULTING ELECTRICAL ENGINEERS
2500 COSTA MESA BLVD, #400
CARMEL, CA 95006-8004
(805) 889-8239 FAX (805) 889-8259
Web: www.lja-inc.com

seal:



dsa: 03-112306

IDENTIFICATION STAMP
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FILE NUMBER: 58-C1
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AC _____ FLS _____ SS _____
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the original size of this drawing is 30" x 42"

Submissions / Revisions

NO.	DATE	REVISION

cad by: _____ chkd by: _____

print date: 09/20/2010

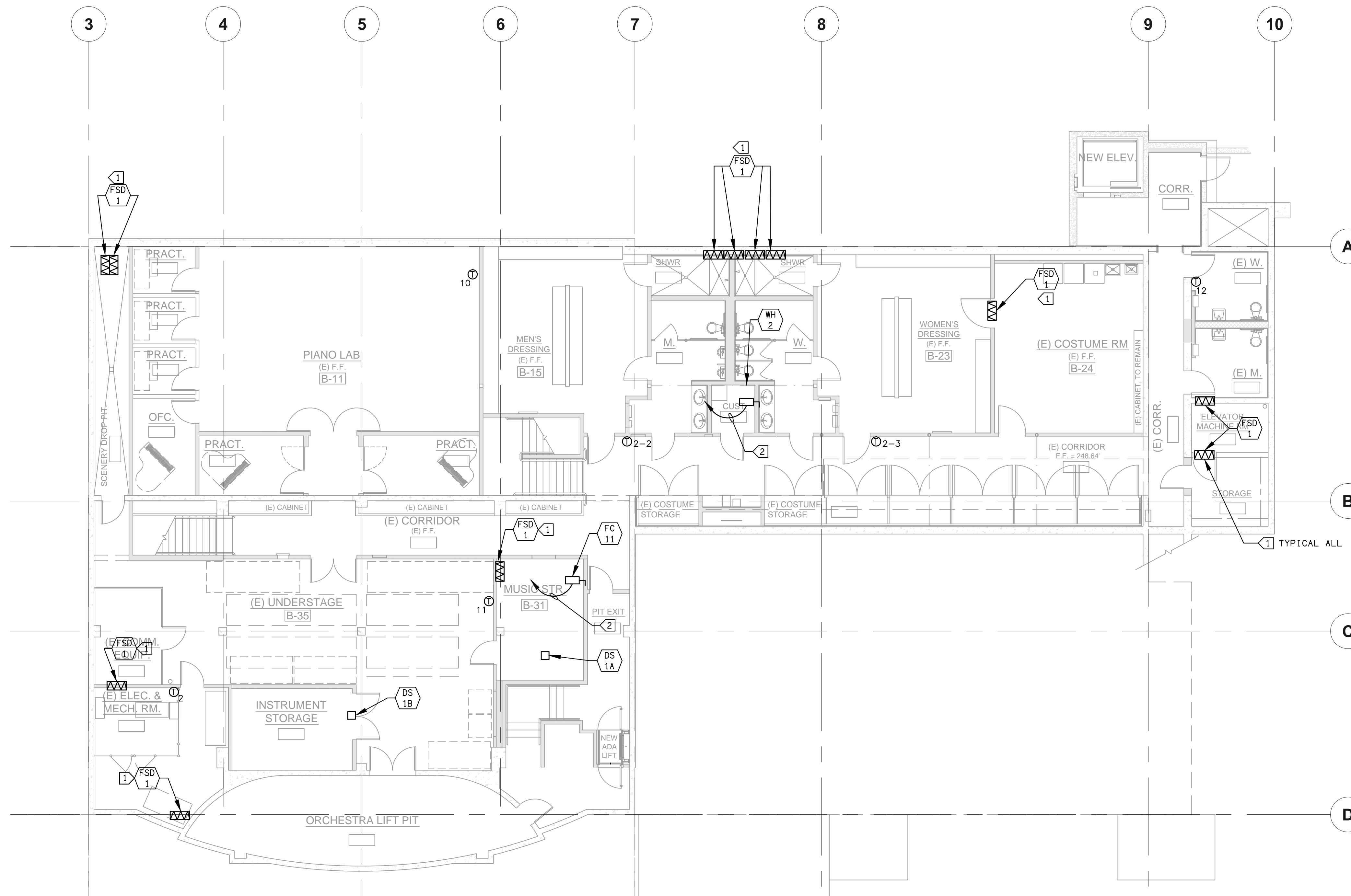
sheet title: MECHANICAL EQUIPMENT SCHEDULE

SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
4. 3/4" CONDUIT MINIMUM U. O. N.
5. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
6. ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
7. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
8. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
9. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

- ① PROVIDE POWER TO FSD UNITS VIA EML-24.
- ② SEE E4.10 FOR FEEDER AND DISCONNECT INFORMATION. PROVIDE CONTROLS PER MECHANICAL AND CONNECT TO DP3-15 CONTROLS.



BASEMENT MECHANICAL POWER PLAN
SCALE 1/8"=1'-0" **E4.11**



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Ojai, CA 93023
T: 805.646.4817
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project:

Ventura College Theater, Bldg G Modernization

4667 Telegraph Rd.
Ventura, CA 93003

client:

Ventura County Community College District

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LUND & ASSOCIATES INC.
COMMERCIAL ELECTRICAL ENGINEERING
3300 COSTA MESA BLVD., SUITE 200
CARMEL, CA 95008-8004
(805) 389-6210 FAX (805) 389-6219
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seal:



dsa: 03-112306

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Submissions / Revisions

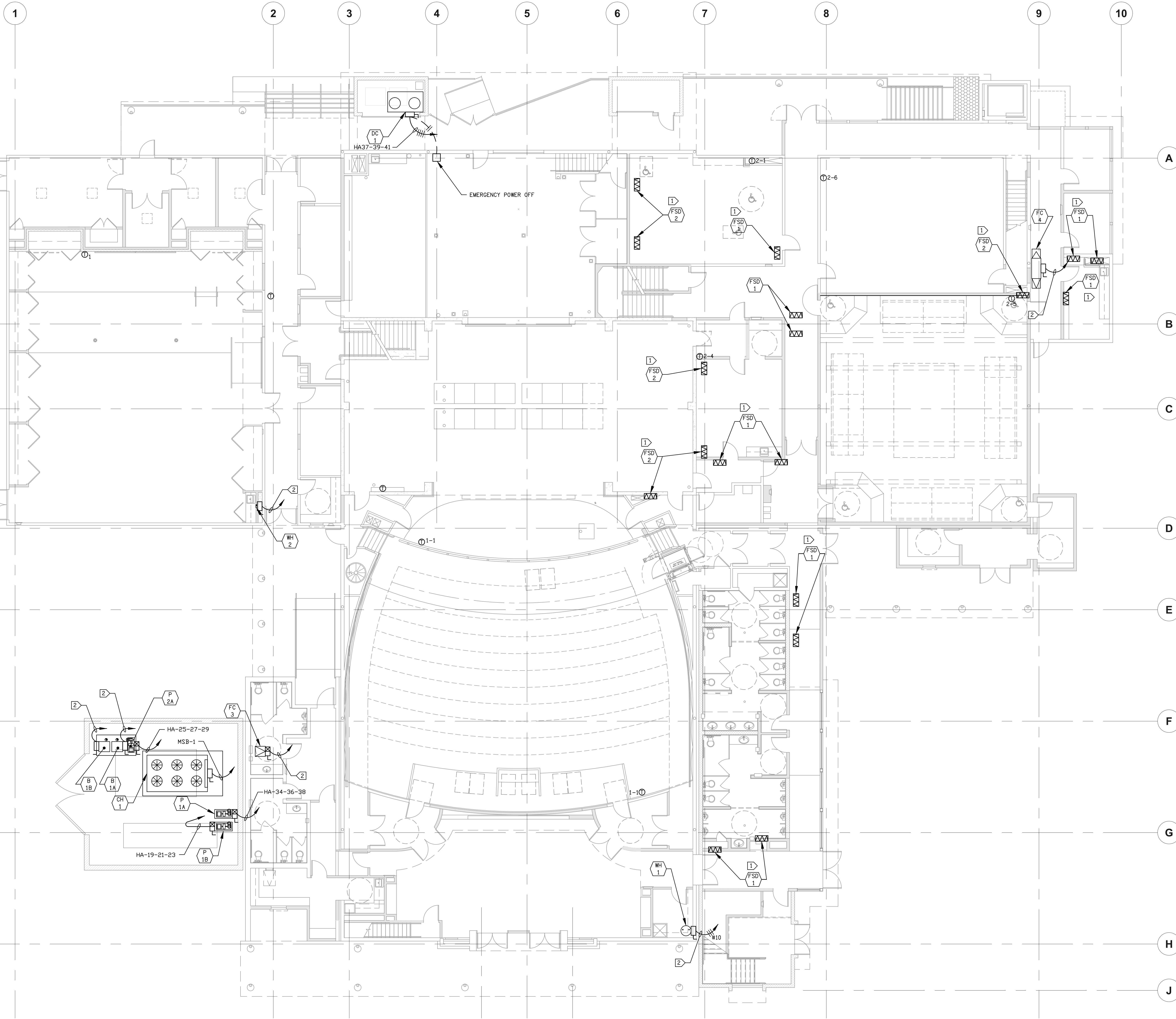
No.	Description

cad by: _____ chkd by: _____
print date: 09/20/2010

sheet title:
BASEMENT MECHANICAL POWER PLAN

E4.11

DATE PLOTTED: 09/20/2010 10:05:11 AM



SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
5. 3/4" CONDUIT MINIMUM U. O. N.
6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
8. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
9. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

- 1 PROVIDE POWER TO FSD UNITS VIA EML-26.
- 2 PER SHEET E4.10 PROVIDE FEEDER, STARTER, DISCONNECT, ETC. PROVIDE CONTROL POWER FROM DP6-37.



**DAVID BURY
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project:

**Ventura College
Theater, Bldg G
Modernization**

4667 Telegraph Rd.
Ventura, CA 93003

client:

**Ventura County
Community
College District**

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LDD&A ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3901 SANTA MONICA BLVD.
CARMELITE, CA 95006-8096
(805) 899-6200 FAX (805) 899-6209
Web Site: <http://www.ldda.com>

seal:



dsa: 03-112306

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AC ___ FLS ___ SS ___
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Submissions / Revisions

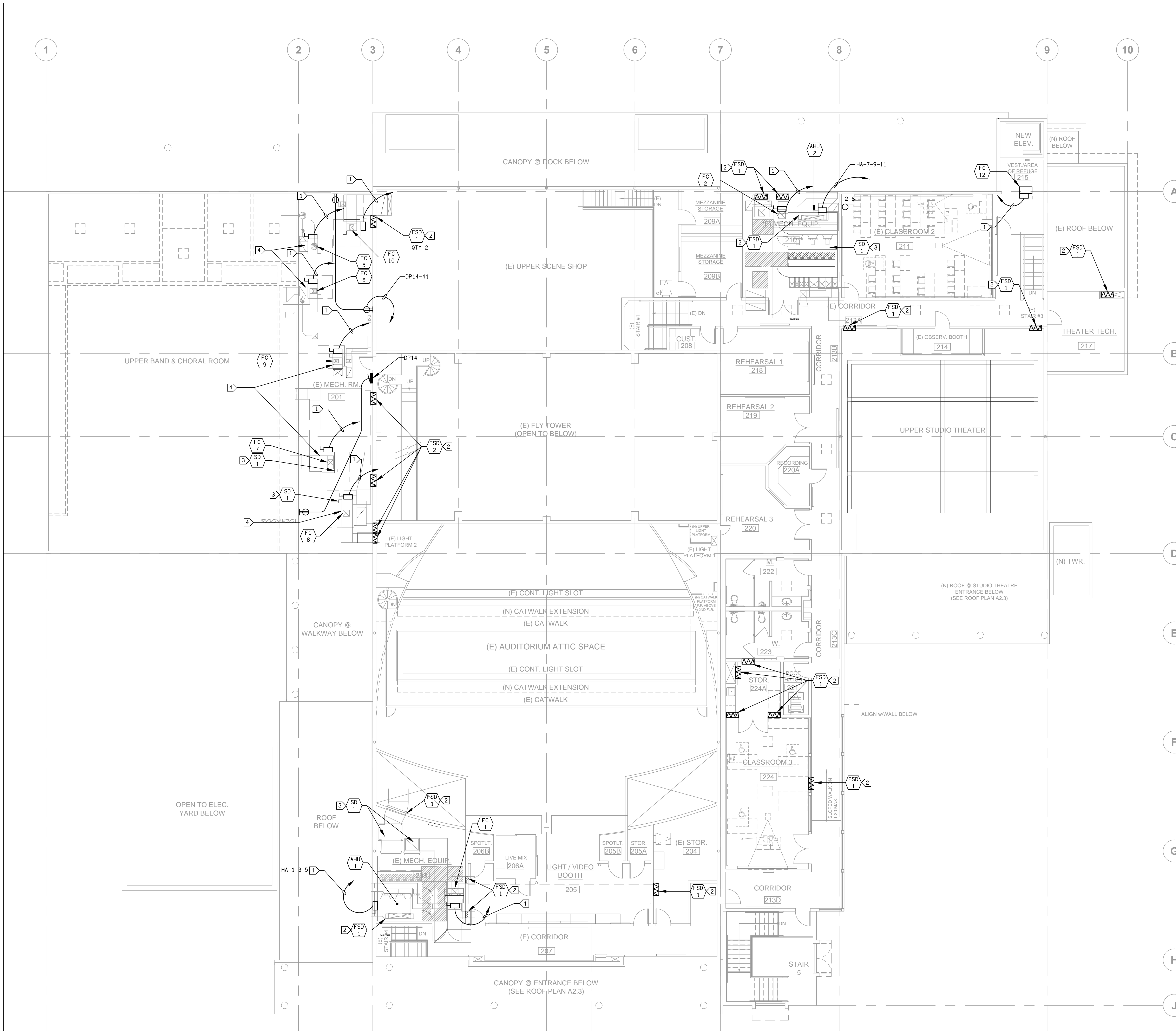
No.	Revised By	Revised Date	Description

cad by: _____ checked by: _____
print date: 09/20/2010

sheet title:
**FIRST FLOOR
MECHANICAL POWER PLAN**

E4.12

FIRST FLOOR MECHANICAL POWER PLAN 1
SCALE 1/8"=1'-0" E4.11



SECOND FLOOR MECHANICAL POWER PLAN

SCALE 1/8"=1'-0" E4.13

SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP. SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING, ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
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5. 3/4" CONDUIT SIZE MINIMUM U.O.N.
6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
8. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL CONNECTIONS, DEVICES, AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
9. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

PROVIDE POWER TO FSD UNIT VIA EML-22

PROVIDE CONNECTION AND CONTROLS TO ALL MECHANICAL UNITS PER MECHANICAL CONSTRUCTION DOCUMENTS AND THE SCHEDULE ON E4.10

KEY NOTES:

- 1 PER SHEET E4.10 PROVIDE POWER, DISCONNECT, STARTER, ETC TO UNIT. PROVIDE CONTROLS PER MECHANICAL PLANS. PROVIDE CONTROL VOLTAGE VIA DP12-37.
- 2 PROVIDE POWER TO FSD UNIT VIA EML-22.
- 3 CONNECT SMOKE DETECTOR TO EML-28.
- 4 CP (CONDENSATE PUMP) DP14-21 OR 23.



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4667 Telegraph Rd.
Ventura, CA 93003

client:

Ventura County Community College District

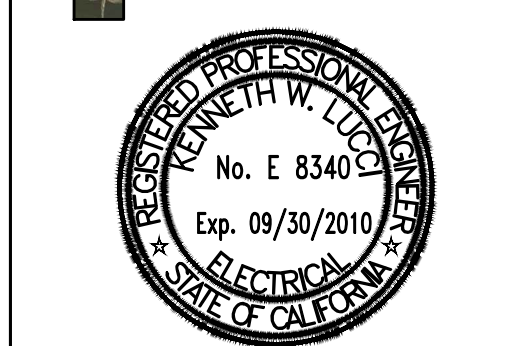
255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LDOR & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3900 OAKS WALKWAY, #400
CARROLLTON, GA 30086-6004
(800) 399-8210 FAX (800) 399-6879
Web: www.ldor.com

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FILE NUMBER: 58-C1	APPL: 03-112306
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Submissions / Revisions

NO.	DESCRIPTION

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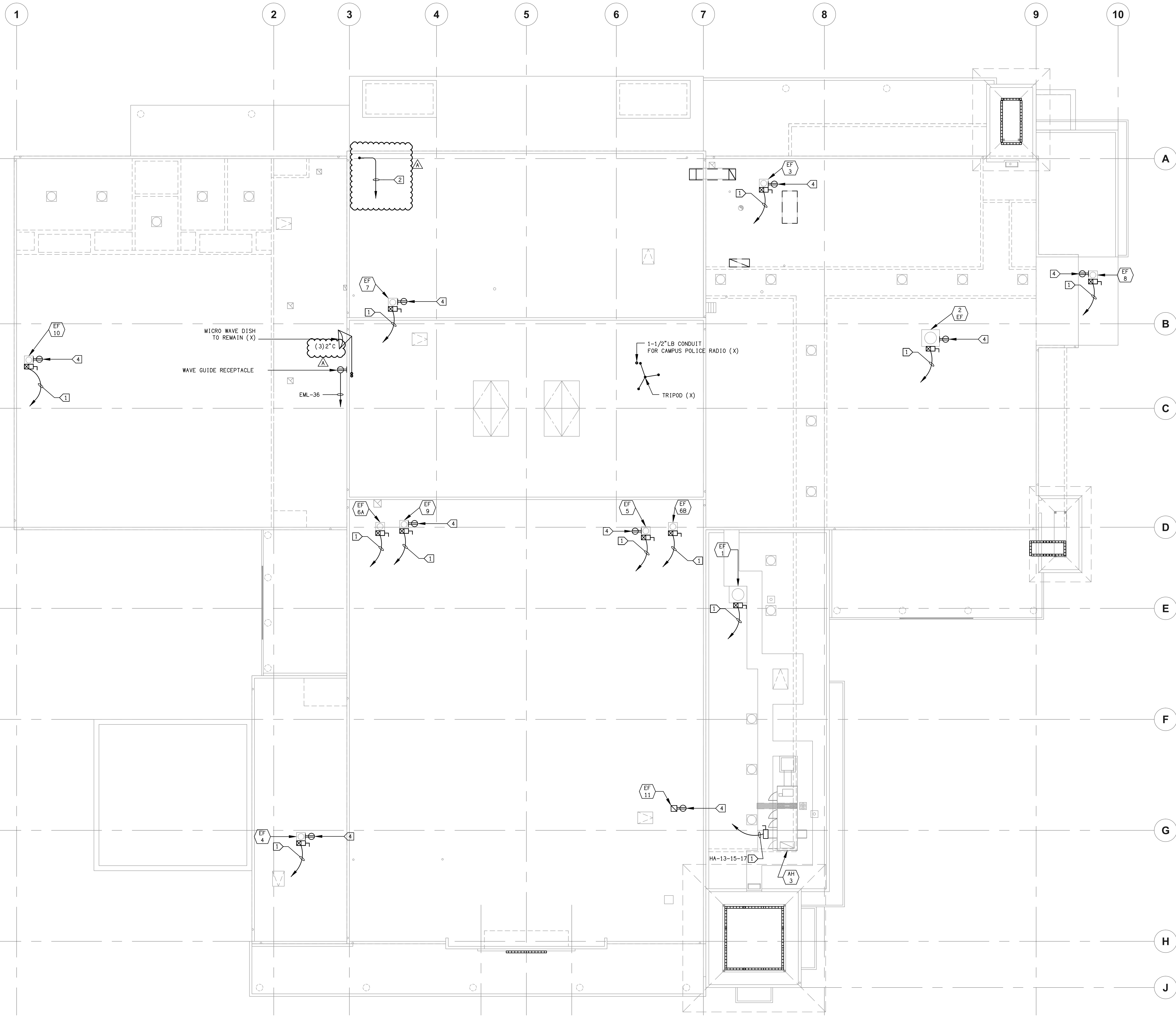
print date: 09/20/2010

sheet title: **SECOND FLOOR**

MECHANICAL POWER PLAN

E4.13

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SHEET NOTES:

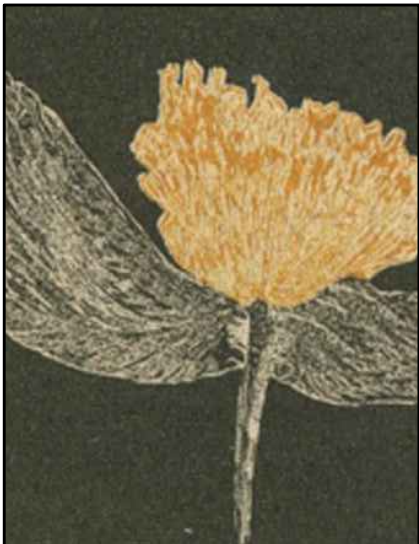
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4. 3/4" CONDUIT MINIMUM U. O. N.
5. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
6. ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
7. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
8. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
9. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

PROVIDE POWER TO FSD UNIT VIA EML-36

PROVIDE CONNECTION AND CONTROLS TO ALL MECHANICAL UNITS PER MECHANICAL CONSTRUCTION DOCUMENTS AND THE SCHEDULE ON E4.10

KEY NOTES:

- 1 COMBINATION STARTER OR DISCONNECT & FEEDER PER SHEET E4.10; CONTROLS PER MECHANICAL; CONTROL POWER DP12-39.
- 2 1" C-(2) CAT6A TO IT ROOM.
- 3 EXHAUST FAN, GREENHECK GB-081 W/CURB, ELEC. 110 VOLT 3 AMPS W/LINE VOLTAGE HONEYWELL CLOSE TO RISE THERMOSTAT IN RM BLW.
- 4 ROOF TOP RECEPTACLES, WP, GFCI, CIRCUIT DP14-24.
- 5 WP, GFCI.



DAVID BURY & COMPANY ARCHITECTS LTD.

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project:

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4667 Telegraph Rd.
Ventura, CA 93003

client:

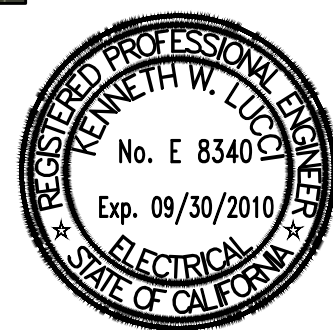
Ventura County Community College District

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LDON & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERING
500 COTTLE WALPAD, #601
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(805) 399-6200 FAX (805) 399-6299
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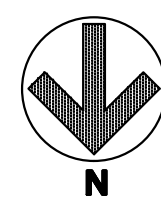
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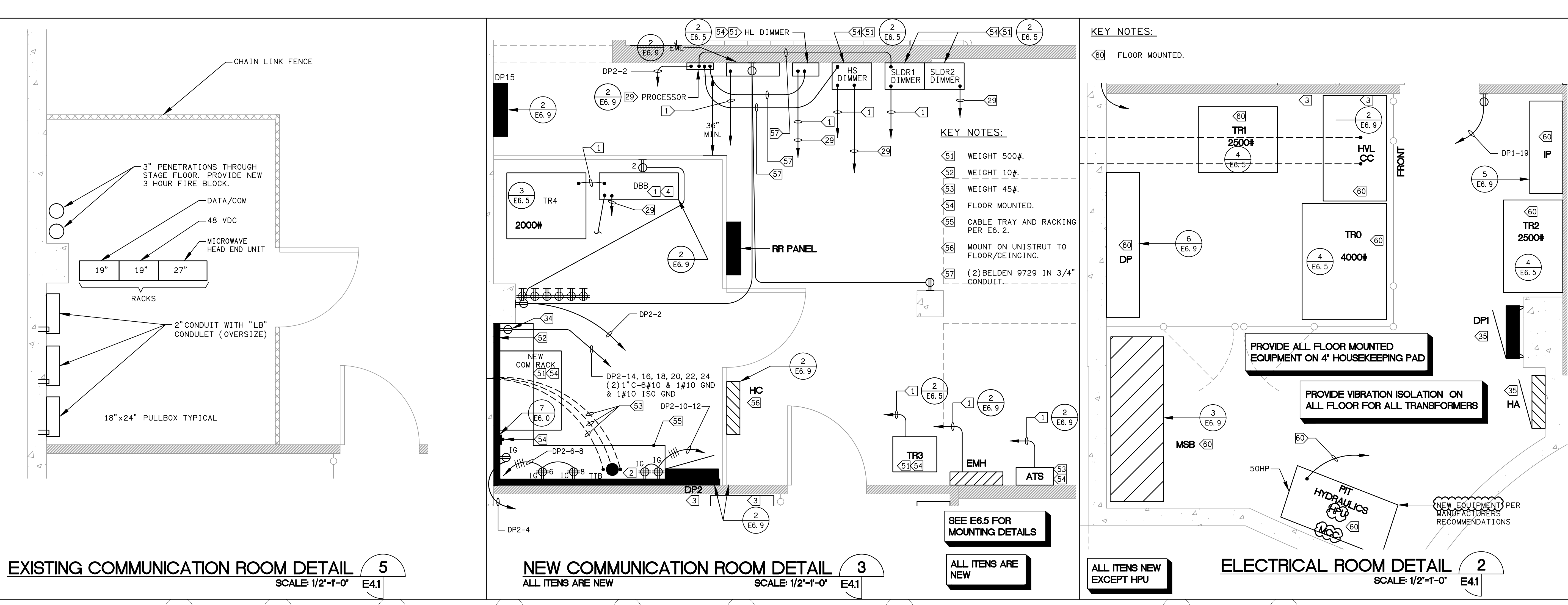
sheet title: **ROOF MECHANICAL POWER PLAN**

E4.14

ROOF MECHANICAL POWER PLAN 1
SCALE 1/8"=1'-0" E4.14



DATE PLOTTED: 09/20/2010 09:57:29 AM

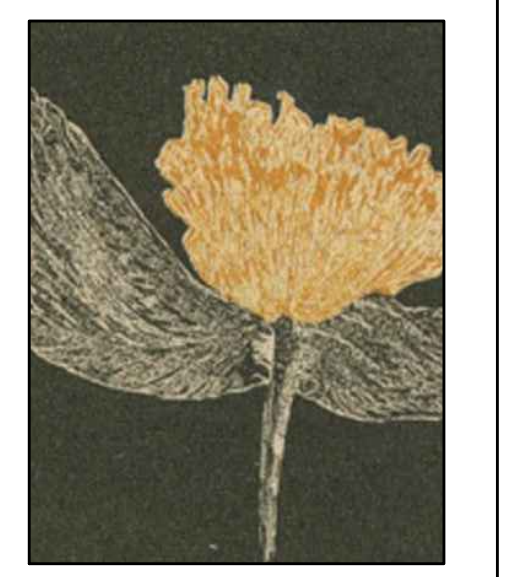


SHEET NOTES:

- CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUITS PER CONDUCTOR MANUFACTURER'S RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
- ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
- VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
- VERIFY AND PROVIDE JUNCTION BOXES, CONDUIT, DISCONNECT SWITCH, AND WIRING ASSOCIATED WITH SIGNAGE/GRAPHICS ON GRAPHICS/SIGNAGE DRAWINGS.

KEY NOTES:

- PER E2.0, PROVIDE CABLING TO STAGE CONNECTOR STOOPS (2#10 PER DIMMER).
- 3/4" X 4'0" X 8'0" TYPE X PLYWOOD. TYPICAL AROUND ROOM PERIMETER.
- CONDUIT (X), EXTEND EACH CONDUIT TO BACKBOARD WITH CABLING.
- #1 GROUND CONDUCTOR TO MSB.
- DP1-11-13.
- DP13-4-6-8.
- DP13-10-12-14.
- DP1-16.
- DP13-1-3-5.
- DP13-21-23-25.
- DP13-13-15.
- DP1-14.
- DP1-41.
- DP1-37.
- DP1-35-33-31.
- GFCI RECEPTACLE.
- MOTORIZED SCREEN.
- DP1-27-29-31.
- DP1-39.
- DP1-7-9.
- DP13-27-29-31.
- DP13-7-9-11.
- DP13-17-19.
- DP13-16-18-20.
- DP13-22-24-26.
- DP1-21-23-25.
- 2" C FROM JBOX AT PROJECTOR TO WALL RING @ 24" AFF FOR FUTURE CONNECTION. VERIFY WITH OWNER WALL STUB-OUT LOCATIONS.
- 1" C - (1) BELDEN 9729 TO DMX JACK ON STAGE RIGHT AND 1" C - (2) BELDEN 9729 TO CONTROL BOOTH CONSOLE.
- FIELD VERIFY CONNECTOR TYPE.
- HUBBELL VMX-26WTT PIT LIGHT.
- DP1-41.
- CLOCK RECEPTACLE. VERIFY LOCATION ON ARCHITECTURAL PLANS.
- PROVIDE DEDICATED IG RECEPTACLE ADJACENT TO RACKS FOR EACH CIRCUIT.
- APPROXIMATE WEIGHT - 45#.
- CONNECT TO DOOR OPERATOR/ELECTRONICS.
- DP13-38.
- DP13-40.
- WIREMOLD G6000.
- WIREMOLD ACCESS 6000.
- 1" C WITH 2 CAT5e TO IDF.
- PILOT LIGHTED SWITCH LABELED "MAKE UP POWER / LIGHTING SEE ESK 173 & 174 1, 3, 5, 7, 9, 11, 13, 21, 23, 25, 27, 29.
- (2) 12 POLE, 20A, 600VAC CONTACTORS.



DAVID BURY & COMPANY ARCHITECTS LTD.

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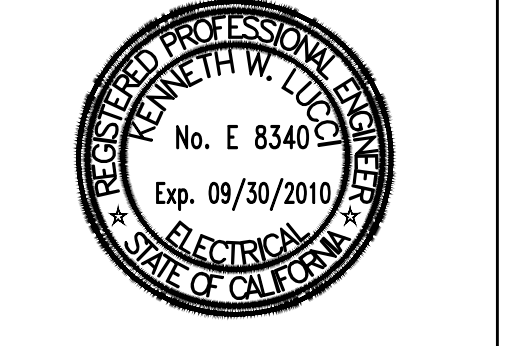
client:
Ventura County Community College District

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

Legend:
CLOCK RECEPTACLE

seal:



dsa: 03-112306

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Submissions / Revisions

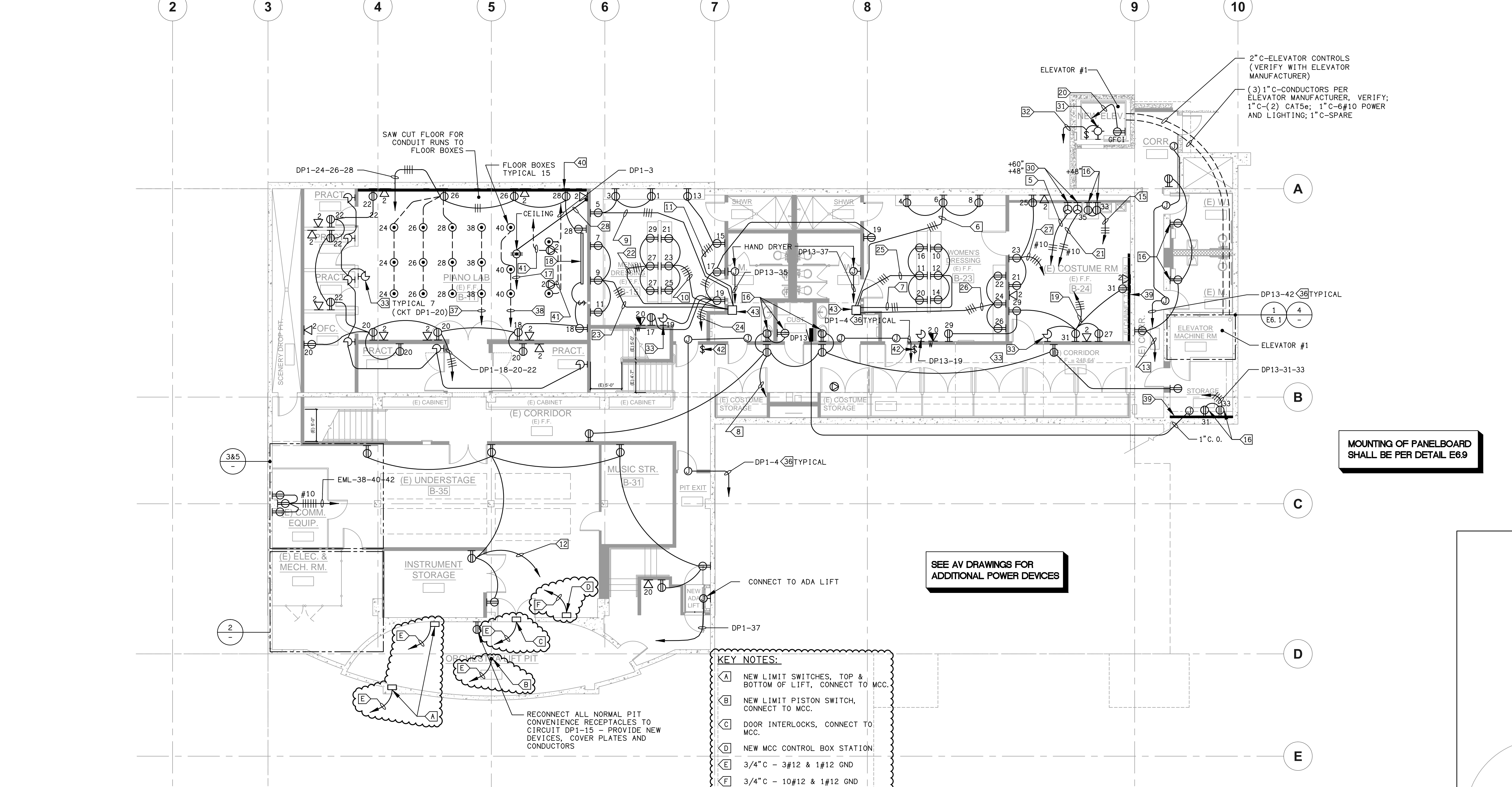
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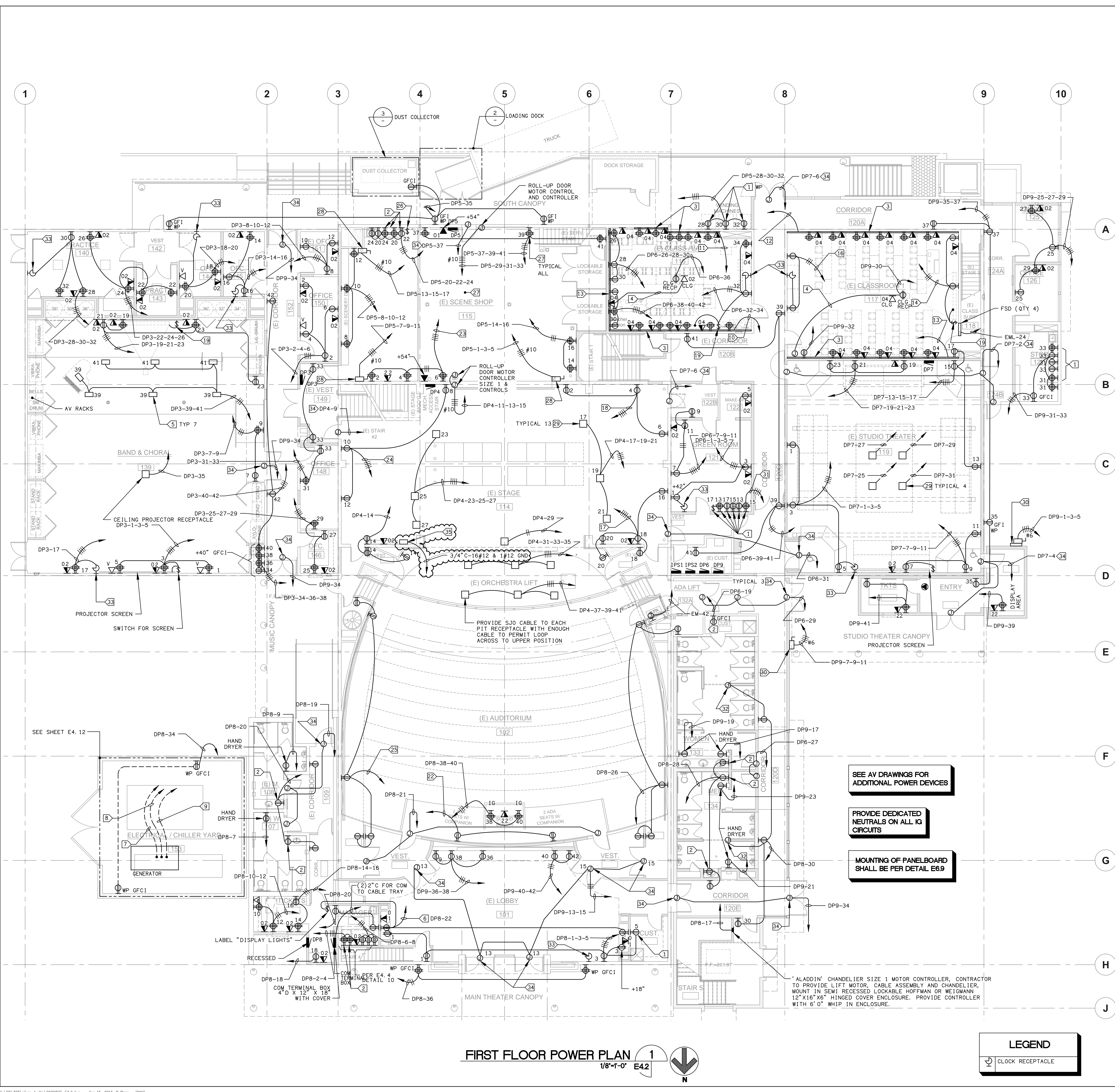
cad by: _____ chd by: _____
print date: 09/20/2010

sheet title:
BASEMENT POWER PLAN

PLAN

E4.1





FIRST FLOOR POWER PLAN 1
1/8"=1'-0" E4.2

LEGEND

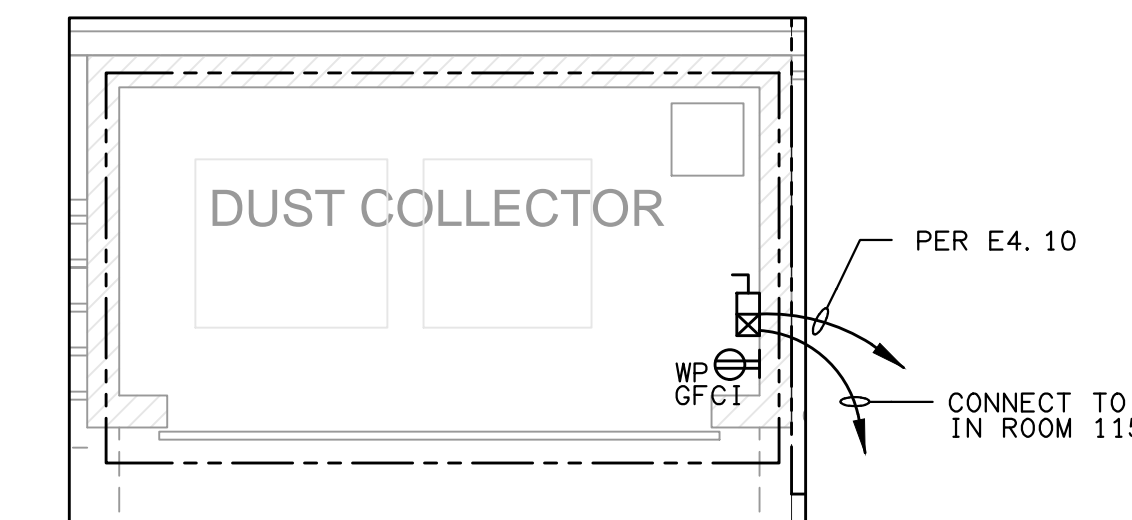
⊖ CLOCK RECEPTACLE

SHEET NOTES:

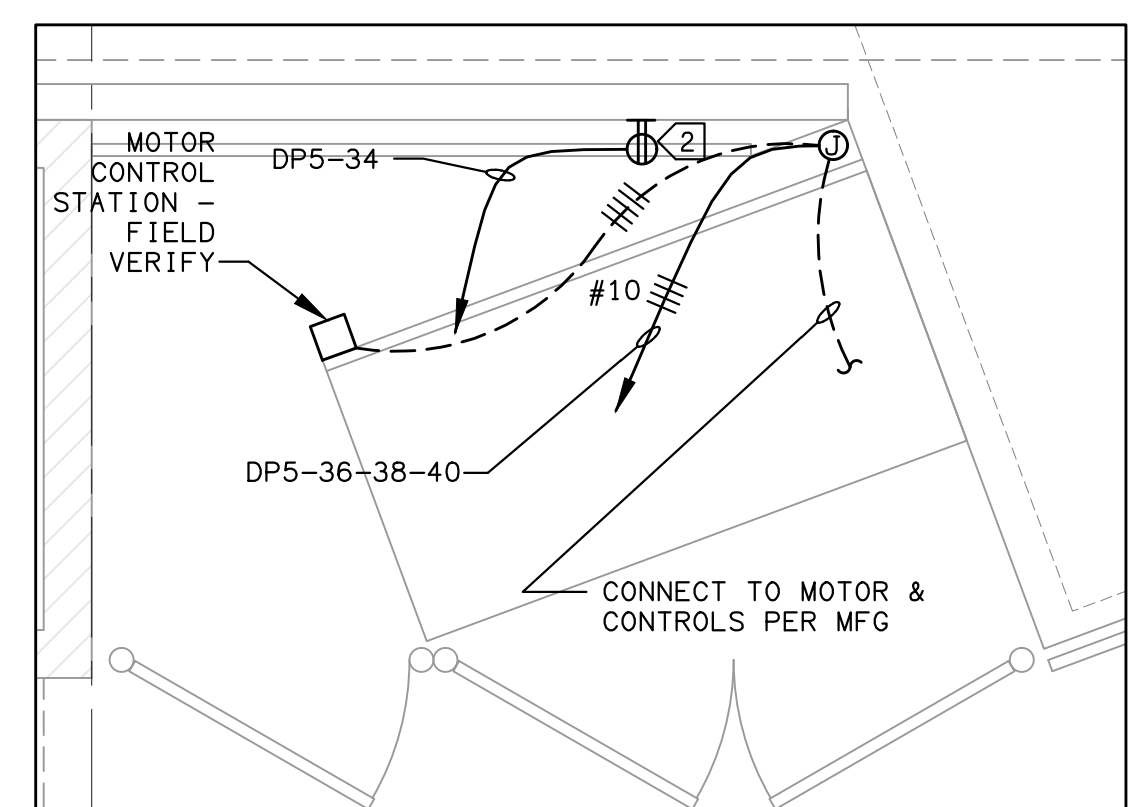
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- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 3/4" CONDUIT MINIMUM U.O.N.; 1" CONDUIT UNDERGROUND.
- PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTABLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
- PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
- CONTRACTOR TO VERIFY MOUNTING HEIGHTS OF TV OUTLETS.

KEY NOTES:

- +42" GFCI RECEPTACLE.
- GFCI RECEPTACLE.
- WIREMOLD G6000 ON WALL AT 40" AFF WITH RECEPTABLES EVERY 12", ALTERNATE CIRCUITS.
- 1-1/2" C FROM CEILING PROJECTOR TO CORNER OF ROOM AV RACK J-BOX ON WALL AT 18".
- FSR-500 STAGE FLOOR POCKETS, PROVIDE 1" C.O. TO AV RACKS IN ROOM.
- DISPLAY LIGHTS.
- 1" C-#10 & #10 GND EML-7-9-11.
- SEE E2.0 FOR FEEDER.
- 1-1/2" C-20#14 STRANDED FOR CONTROL; (NFPA-21 ANNUNCIATOR PANEL).
- 1-1/4" C-#8#10 & #2#10 GND TO DP6-2-4-6, 8-10-12.
- 1-1/4" C-#8#10 & #2#10 GND TO DP6-14-16-18, 20-22-24.
- 1-1/4" C-#8#10 & #2#10 GND TO DP9-14-16-18, 20-22-24.
- 1-1/4" C-#8#10 & #2#10 GND TO DP9-2-4-6, 8-10-12.
- DP9-26-28.
- DP7-42.
- DP6-28.
- DP4-16-18-20.
- DP4-2-4-6.
- SCREEN SWITCH & CONNECTION.
- DP5-14-16.
- DP5-18-20.
- DP8-42.
- DP5-2-4-6.
- DP4-8-10-12.
- DP8-24.
- EMERGENCY OFF SWITCH FOR DUST COLLECTOR (CONNECT TO STARTER @ COLLECTOR LOCATION).
- ALL RECEPTABLES IN THIS ROOM TO BE 42" AFF & GFCI.
- 30A, 3P, 240VAC FUSED DISCONNECT.
- (X) FLOOR POCKET - RECONNECT & INSTALL NEW RECEPTACLE WITH NEW FEEDER.
- MELTRIC DISCONNECT WITH FEMALE DS60 RECEPTACLE 120/208VAC, 3 PHASE, 4W, 3P+N+E WITH 45° ANGLE AND MATING MALE PLUG.
- DP6-13-15-17.
- CONNECT TO GATE LIFT MECHANISM, PROVIDE CONTROL STATION & CONNECT PER MANUFACTURER.
- CLOCK RECEPTACLE. VERIFY LOCATION ON ARCHITECTURAL PLANS.
- CONNECT TO DOOR OPERATOR/CONTROLS.
- NEW PIT LIFT STATION WITH UMBILICAL & ESTOP, CONNECT TO MCC



LOADING DOCK DETAIL 3
1/4"=1'-0" E4.2



LOADING DOCK DETAIL 2
3/8"=1'-0" E4.2

SEE AV DRAWINGS FOR ADDITIONAL POWER DEVICES

PROVIDE DEDICATED NEUTRALS ON ALL IQ CIRCUITS

MOUNTING OF PANELBOARD SHALL BE PER DETAIL E6.9

ALADDIN CHANDELIER SIZE 1 MOTOR CONTROLLER, CONTRACTOR TO PROVIDE LIFT MOTOR, CABLE ASSEMBLY AND CHANDELIER. MOUNT IN SEMI RECESSED LOCKABLE HOFFMAN OR WEIGMANN 12" X 16" X 6" HINGED COVER ENCLOSURE. PROVIDE CONTROLLER WITH 6" Ø WHIP IN ENCLOSURE.



DAVID BURY & COMPANY ARCHITECTS LTD.

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project:
Ventura College Theater, Bldg G Modernization

4667 Telegraph Rd.
Ventura, CA 93003

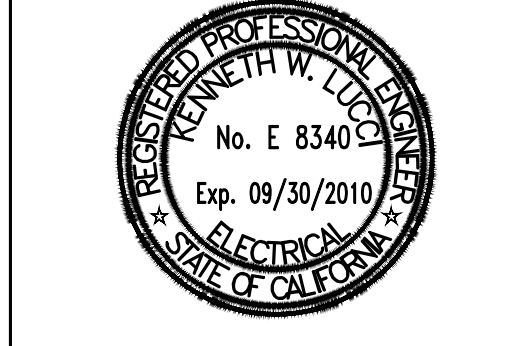
client:
Ventura County Community College District

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LD&A ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3800 COVINA BLVD., SUITE 200
CANAVERA, CA 93001
(805) 399-6200 FAX (805) 399-6699
Web: www.ldandainc.com

seal:



dsa: 03-112306

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 58-C1
APPL. 03-112306
AC: _____ FLS: _____ SS: _____
DATE: _____

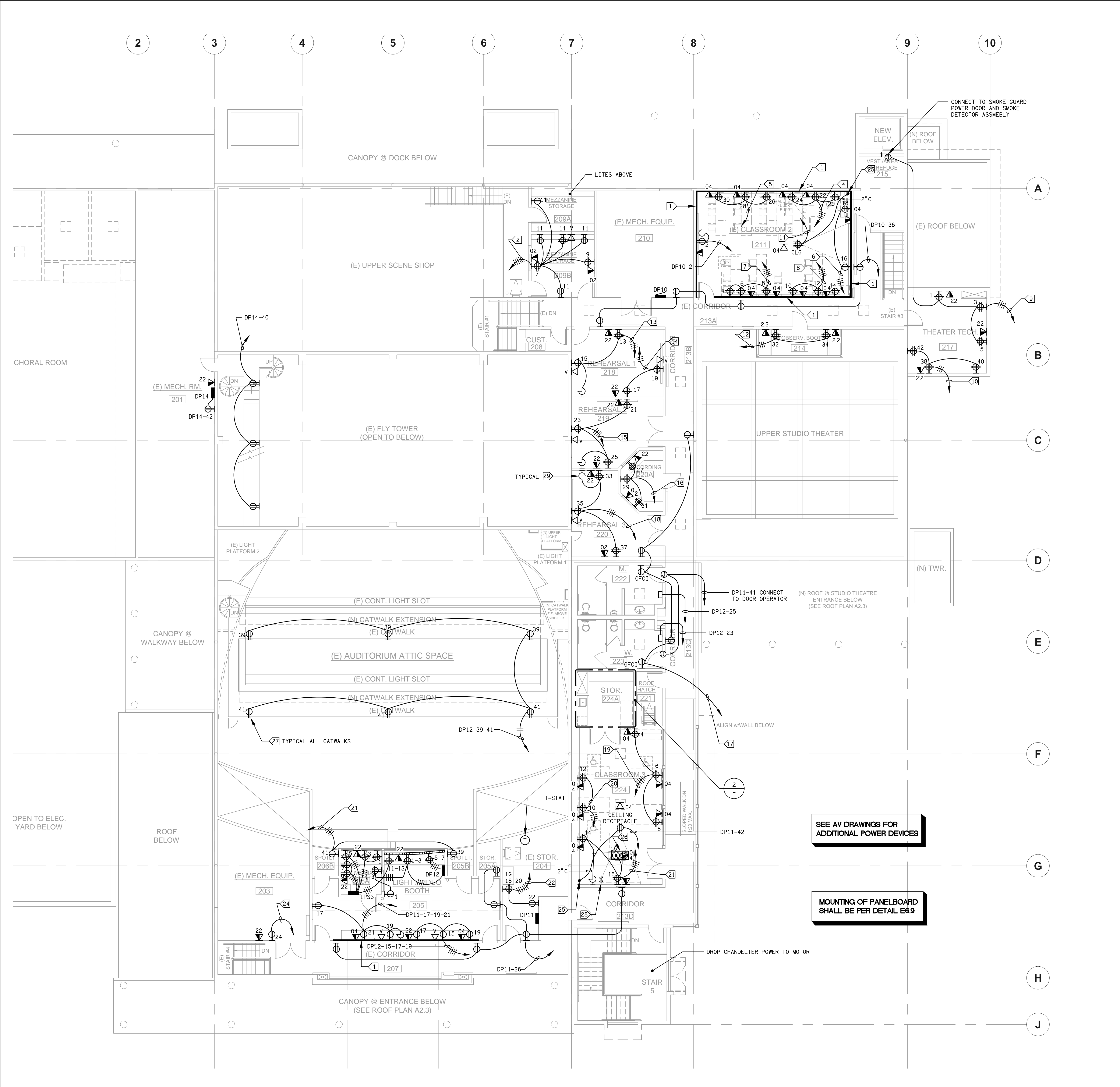
the original size of this drawing is 30" x 42"

Submissions / Revisions

NO.	DATE	DESCRIPTION

drawn by: _____ checked by: _____
print date: 09/20/2010
sheet title: **FIRST FLOOR POWER PLAN**

E4.2



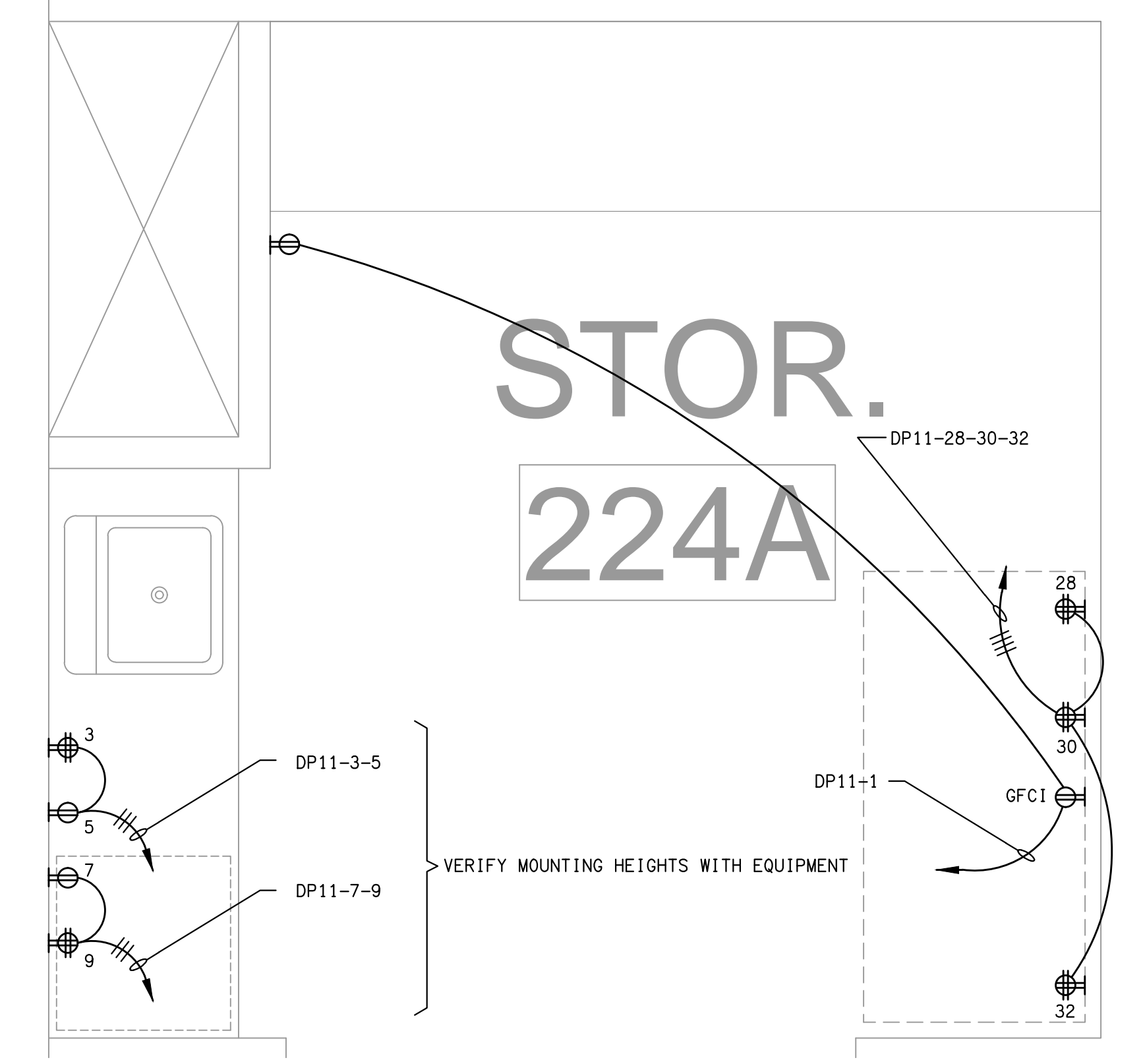
- SHEET NOTES:**
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
 - CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
 - COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
 - CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS. PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
 - 3/4" CONDUIT MINIMUM U. O. N.
 - PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
 - ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
 - PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
 - VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
 - VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

- KEY NOTES:**
- G6000 WIREMOLD.
 - DP10-7-9-11.
 - DP10-2.
 - DP10-20-22-24.
 - DP10-26-28-30.
 - DP10-16-18.
 - DP10-4-6-8.
 - DP10-10-12-14.
 - DP10-1-3-5.
 - DP10-38-40-42.
 - DP10-41.
 - DP10-32-34.
 - DP10-13-15.
 - DP10-17-19.
 - DP10-21-23-25.
 - DP11-27-29-31.
 - DP11-2.
 - DP11-33-35-37.
 - DP11-4-6-8.
 - DP11-10-12.
 - DP11-39-41.
 - DP11-18-20-22.
 - DP11-14-16.
 - DP11-24.
 - 2" C DOWN WALL TO 4 GANG MUD RING W/COVER AT 24" AFF.
 - HUBBELL FLOOR BOX - SYSTEM 1; ONE BOX FOR POWER AND ONE FOR COM; MAINTAIN FIRE RATING FOR FLOOR SYSTEM.
 - MOUNT RECEPTACLE TO INSURE FRONT OF DEVICE IS FLUSH WITH RAILING.
 - SCREEN MOTOR SWITCH - CONNECT TO SCREEN DP11-26.
 - CLOCK RECEPTACLE, ROOM 220 AND 205. VERIFY LOCATION ON ARCHITECTURAL PLANS.
 - CONNECT TO DOOR OPERATOR/ELECTRONICS.

SEE AV DRAWINGS FOR ADDITIONAL DEVICES

SEE AV DRAWINGS FOR ADDITIONAL POWER DEVICES

MOUNTING OF PANELBOARD SHALL BE PER DETAIL E6.9



DAVID BURY & COMPANY ARCHITECTS LTD.
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4667 Telegraph Rd.
Ventura, CA 93003

client:
Ventura County Community College District
255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:
LUNA & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERING
3250 COCKER WALKWAY, #414
CARMELITO, CA 93905-9004
(805) 399-6100 FAX (805) 399-6599
Web Site: http://www.lunaelect.com



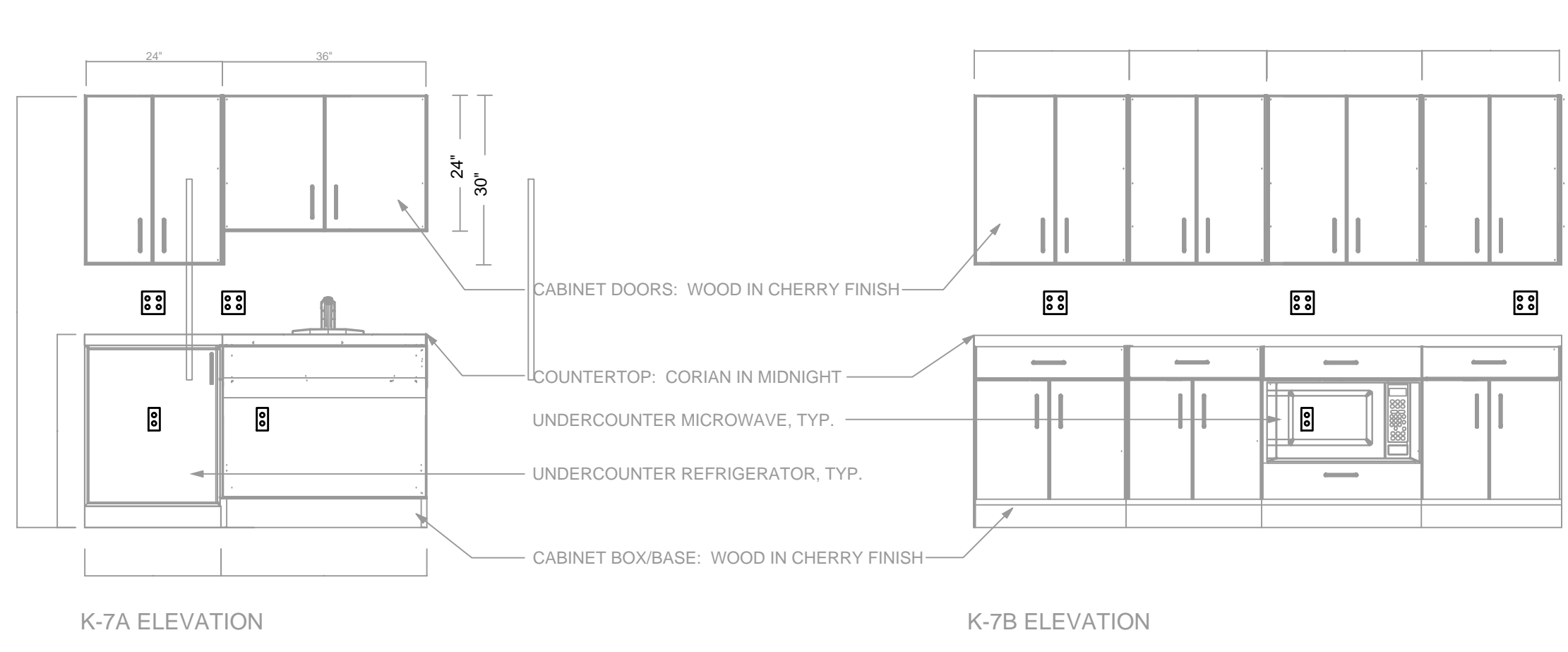
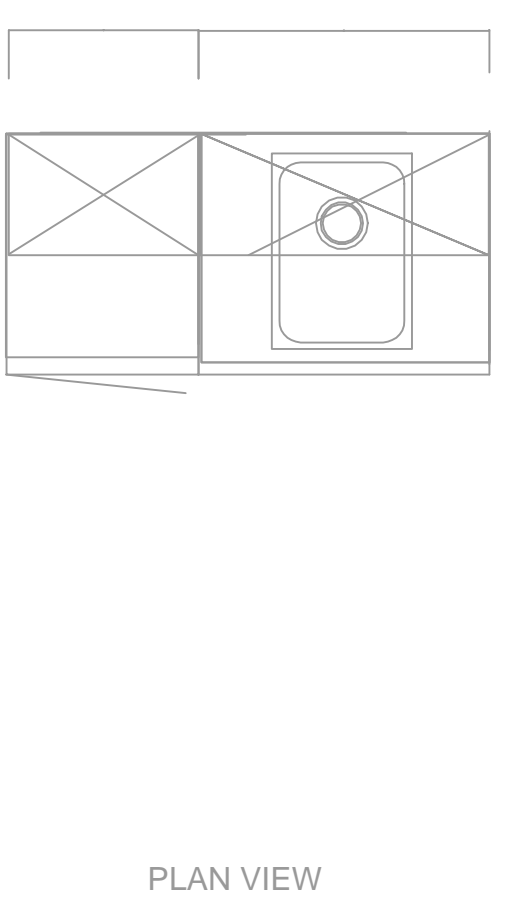
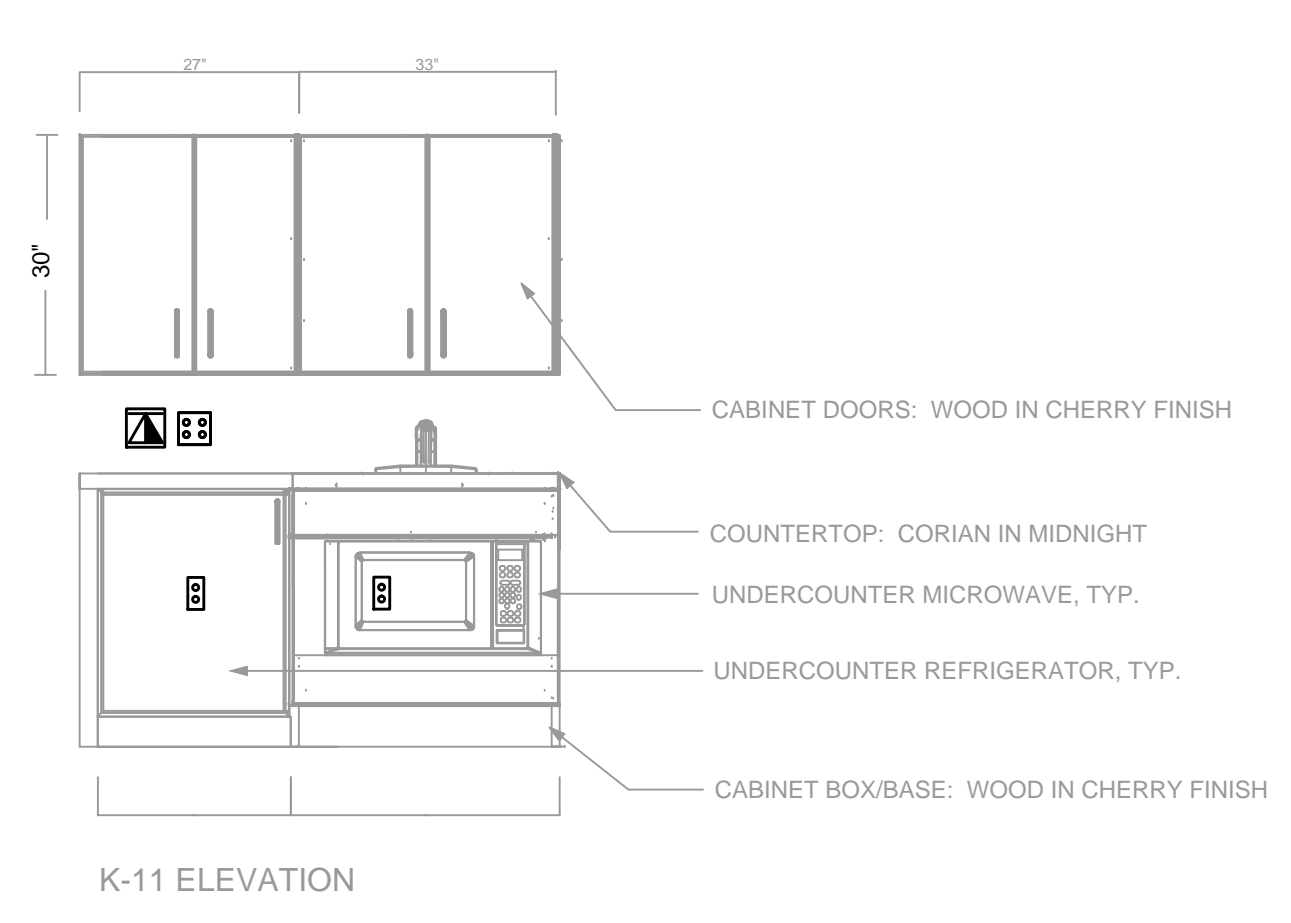
dsa: 03-112306
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 58-C1
APPL 03-112306
AC ___ FLS ___ SS ___
DATE _____

the original size of this drawing is 30" x 42"

Submissions / Revisions	DATE	BY	DESCRIPTION

call by: _____ checked by: _____
print date: 09/20/2010
sheet title: **SECOND FLOOR POWER PLAN**

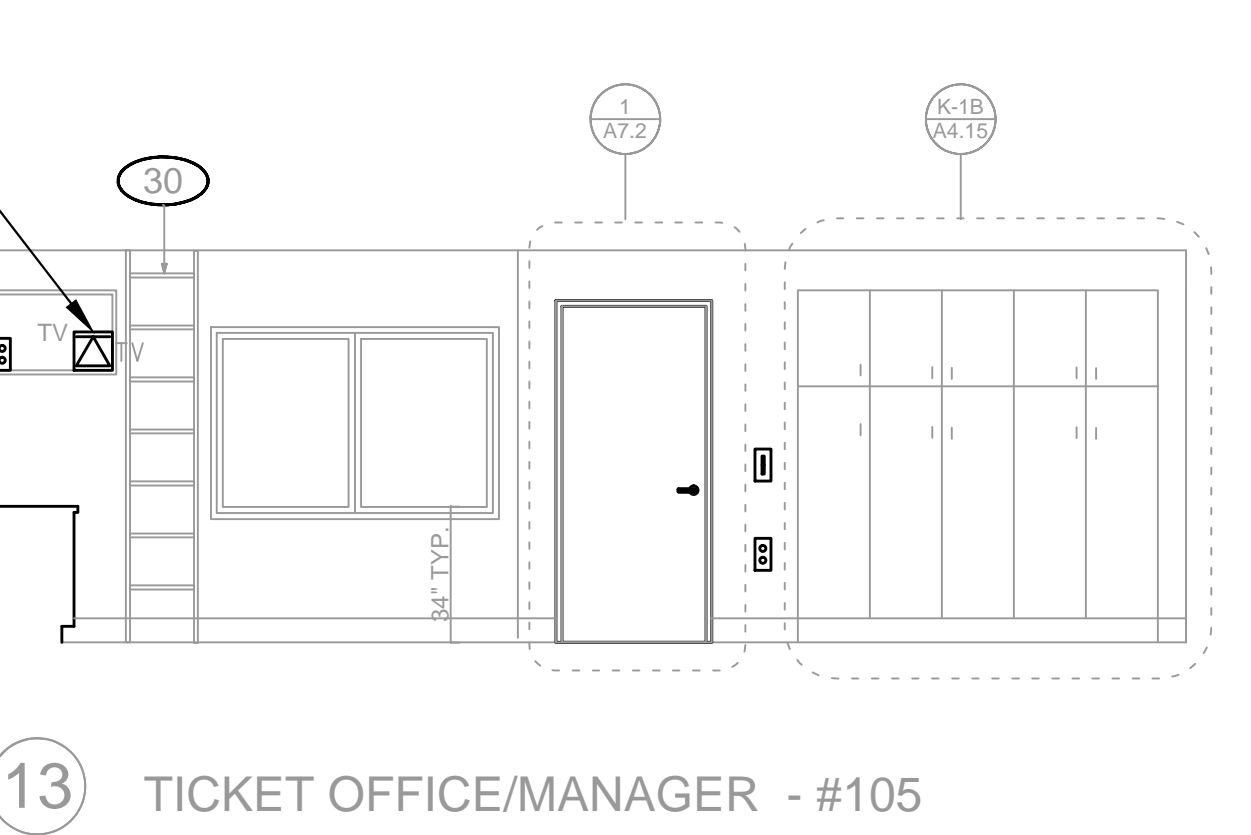
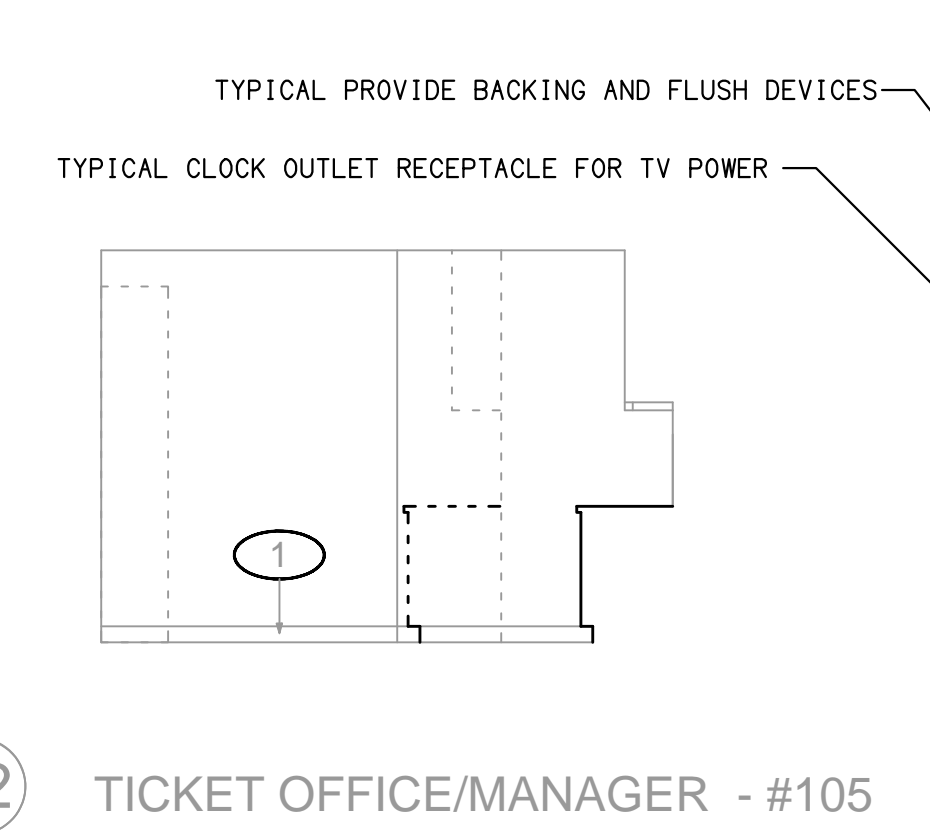
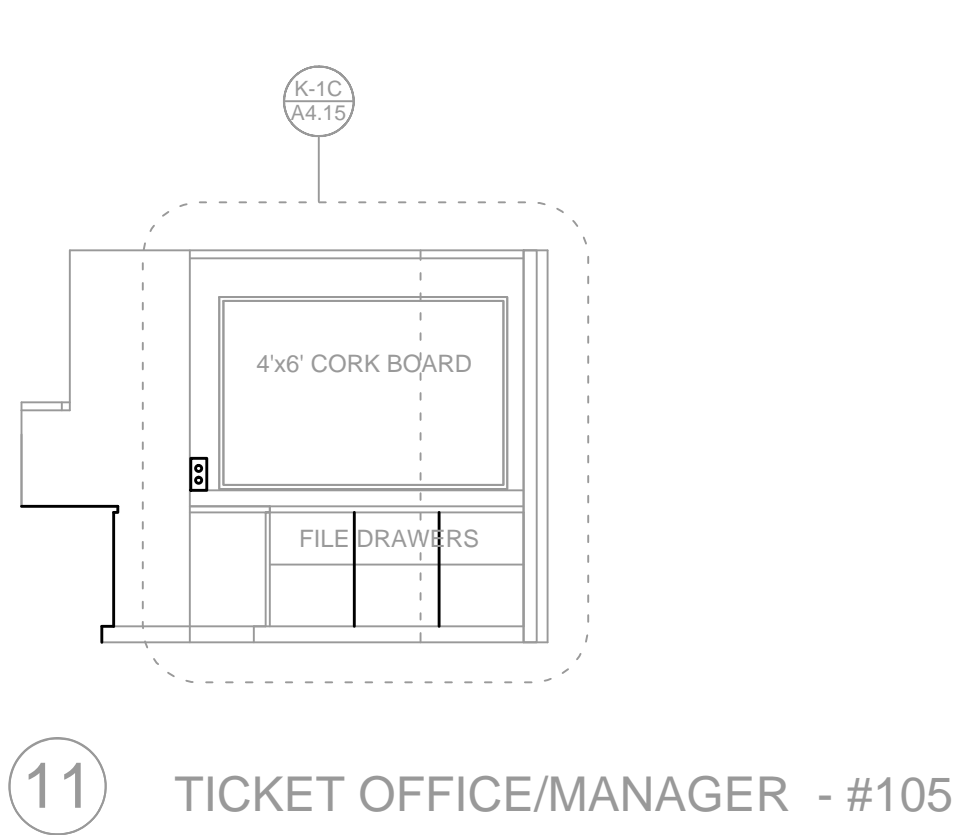
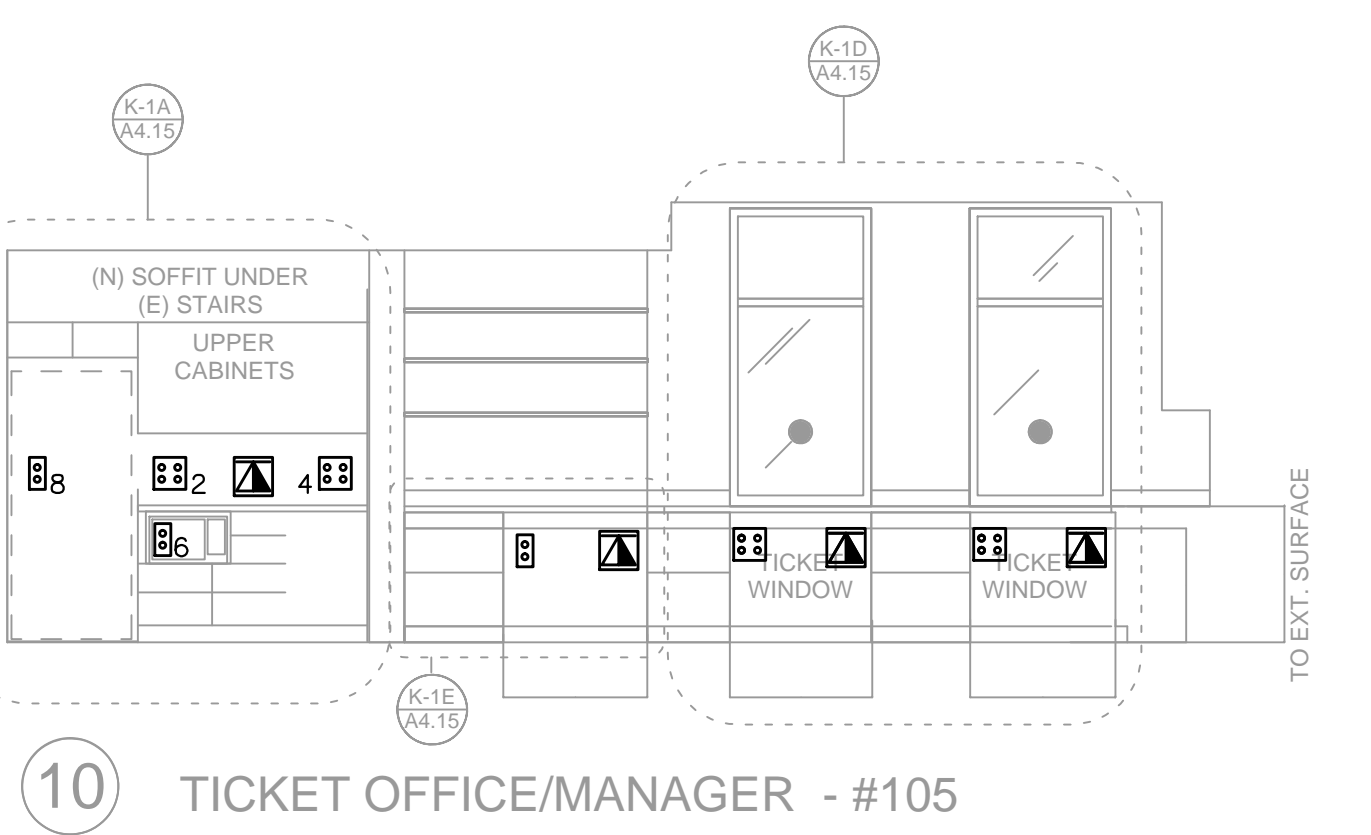
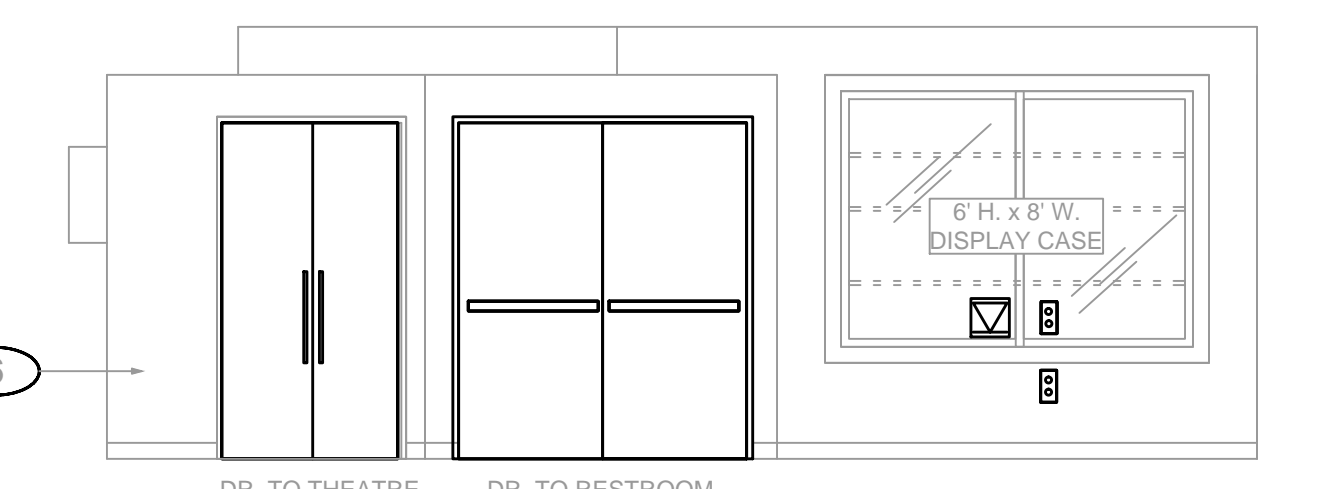
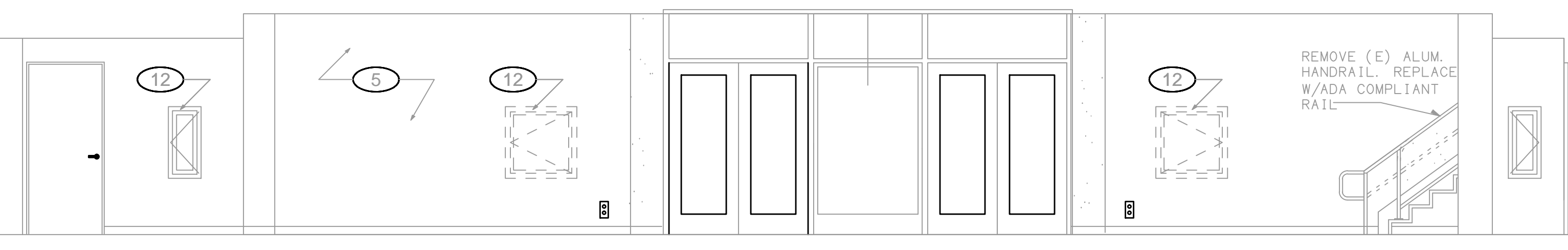
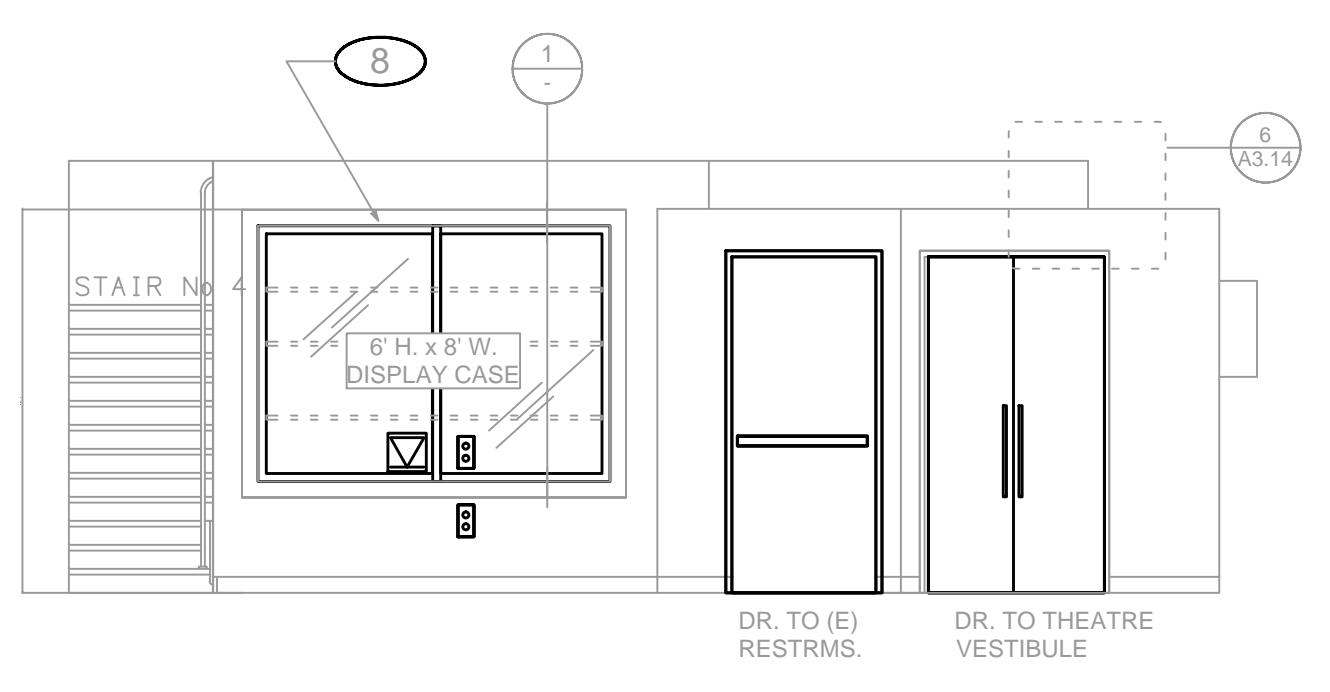
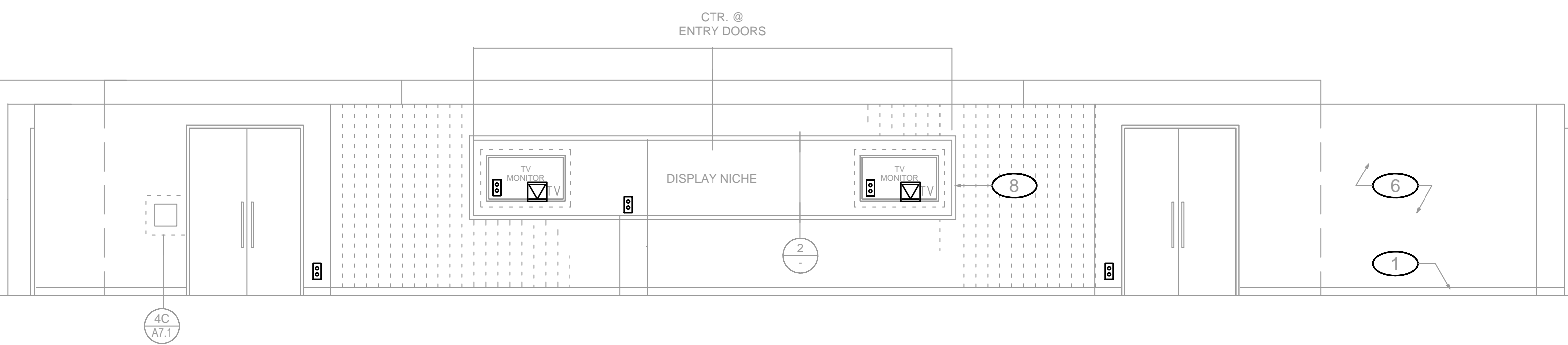
E4.3



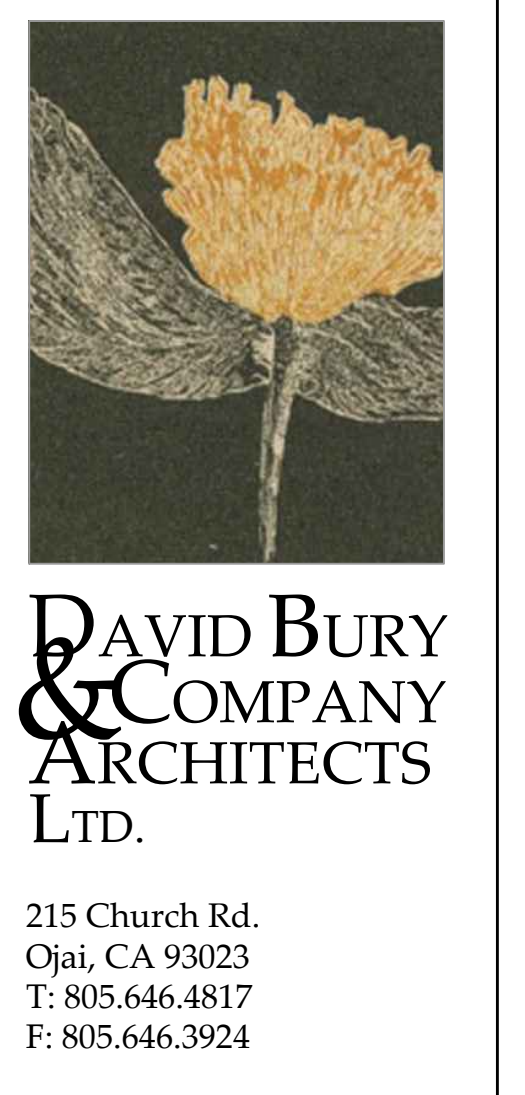
- CAB@MEZZ STORAGE 209B

- CAB@STORAGE 224A

SEE ANY DRAWINGS FOR ADDITIONAL DEVICES



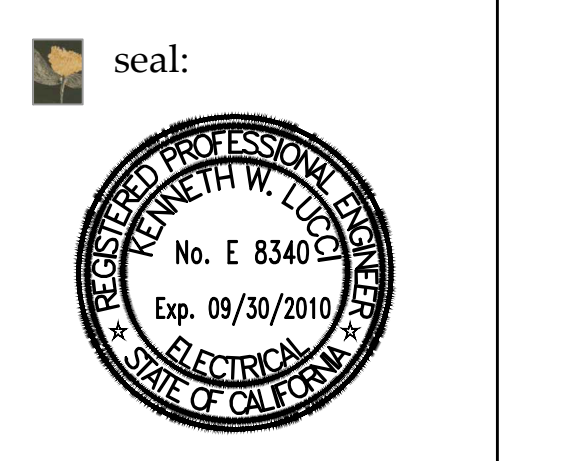
- SHEET NOTES:**
1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
 2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
 3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
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 5. 3/4" CONDUIT MINIMUM U. O. N.
 6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
 7. ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
 8. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
 9. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
 10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.



project:
 Ventura College Theater, Bldg G Modernization
 4667 Telegraph Rd. Ventura, CA 93003

client:
 Ventura County Community College District
 255 W. Stanley Ave, Suite 250 Ventura, CA 93001

consultant:
 LUSH & ASSOCIATES INC.
 CONSULTING ELECTRICAL ENGINEERS
 3850 COSTA MESA BLVD. SUITE 300
 CARLSBAD, CA 92008-6094
 (805) 999-6210 FAX (805) 999-6519
 Web Site: www.lush-electrical.com



dsa: 03-112306

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 FILE NUMBER: 58-C1
 APPL 03-112306
 AC: ___ FLS: ___ SS: ___
 DATE: ___/___/___

the original size of this drawing is 30" x 42"

Submissions / Revisions

cad by: _____ checked by: _____
 print date: 09/20/2010
 sheet title: **POWER PLAN ELEVATIONS**

E4.4

POWER PLAN ELEVATIONS 1
 SCALE: 1/4"=1'-0" E44

DATE PLOTTED: 09/20/2010 10:05:40 AM PROJECT: C:\PROJECTS\2010\09\20\092010\POWER PLAN ELEVATIONS.dwg

SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
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DAVID BURY & COMPANY
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project:

Ventura College
Theater, Bldg G
Modernization

4667 Telegraph Rd.
Ventura, CA 93003

client:

Ventura County
Community
College District

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

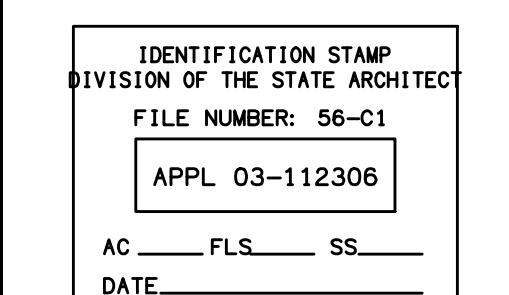
consultant:

LLOYD & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3300 COSTA MESA BLVD, #401
CARMELITE, CA 95008-8004
(805) 889-6230 FAX (805) 889-6699
Web Site: <http://www.lloyddesign.com>

seal:



dsa: 03-112306



the original size of this drawing is 30" x 42"

Submissions / Revisions

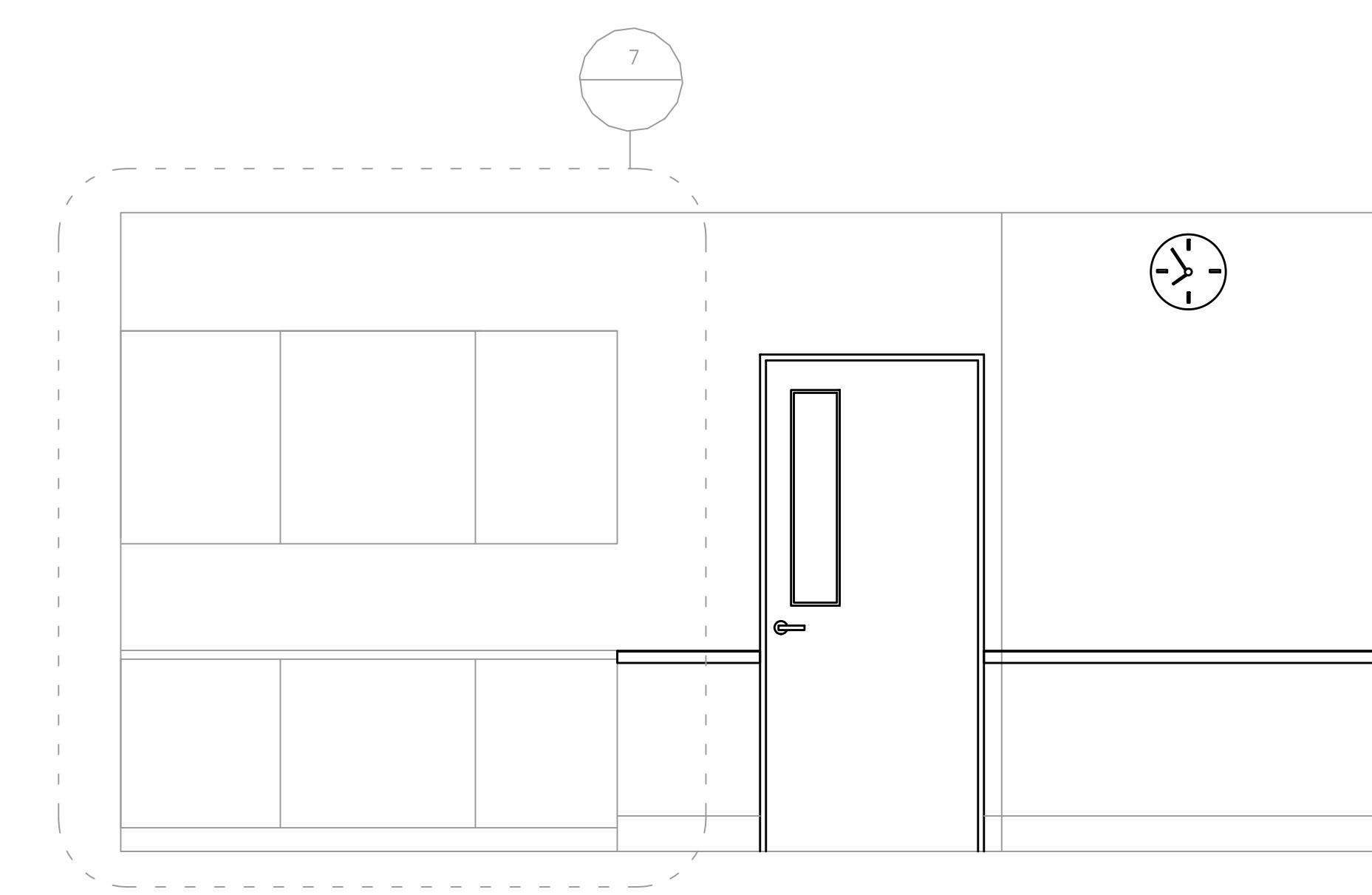
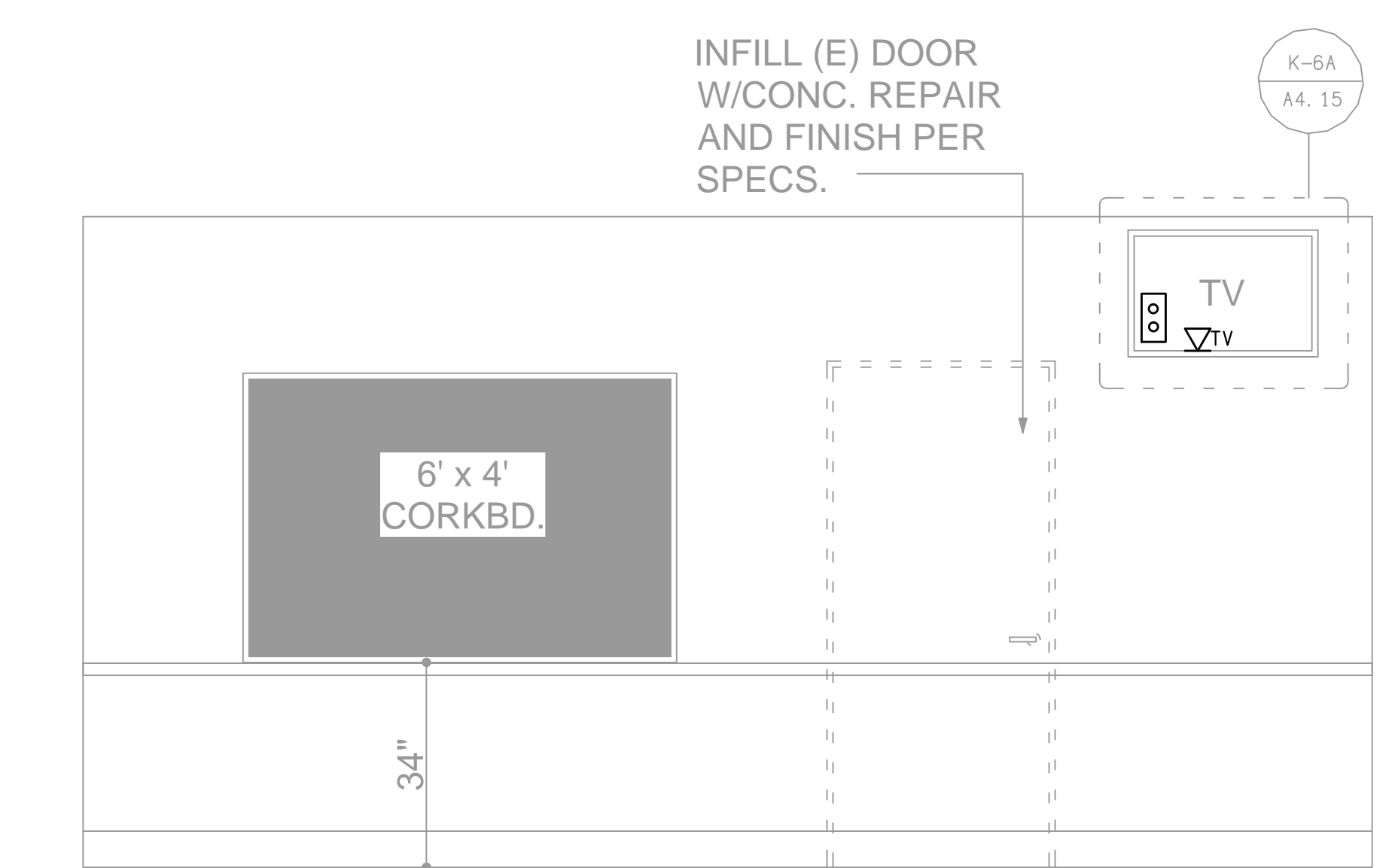
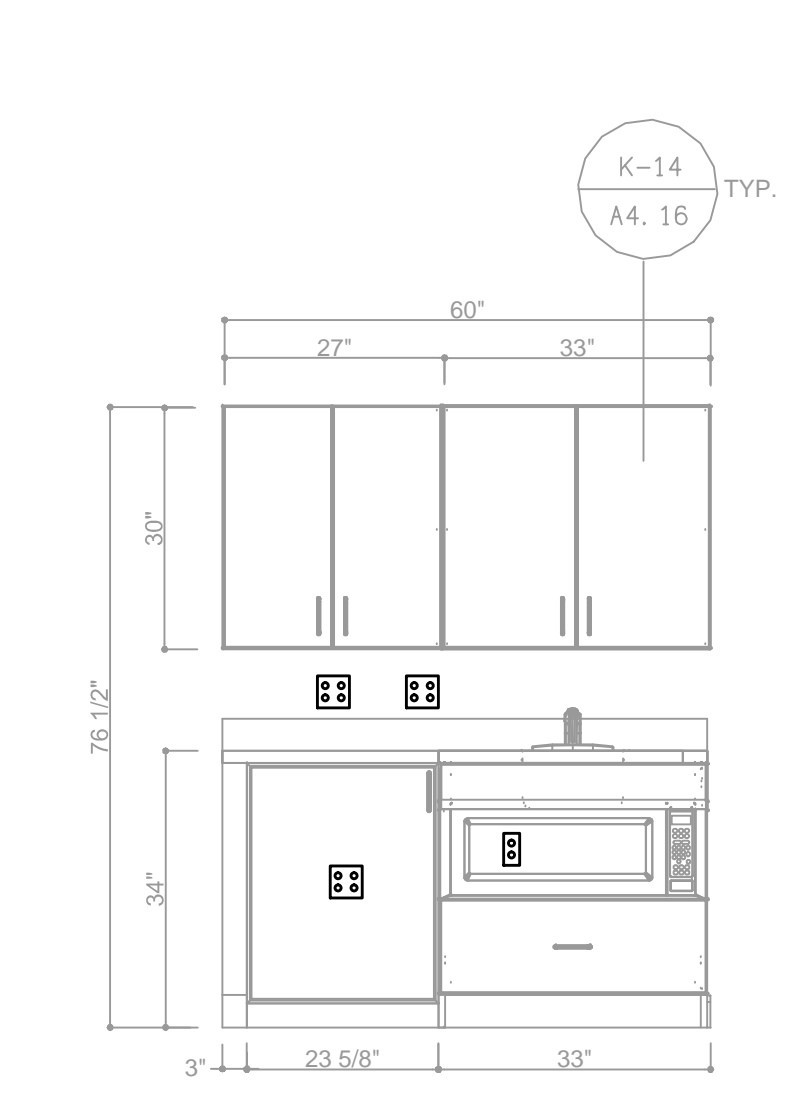
No.	Description	Date

cad by: _____ chkd by: _____

print date: 09/20/2010

sheet title:
POWER PLAN
ELEVATIONS

E4.5

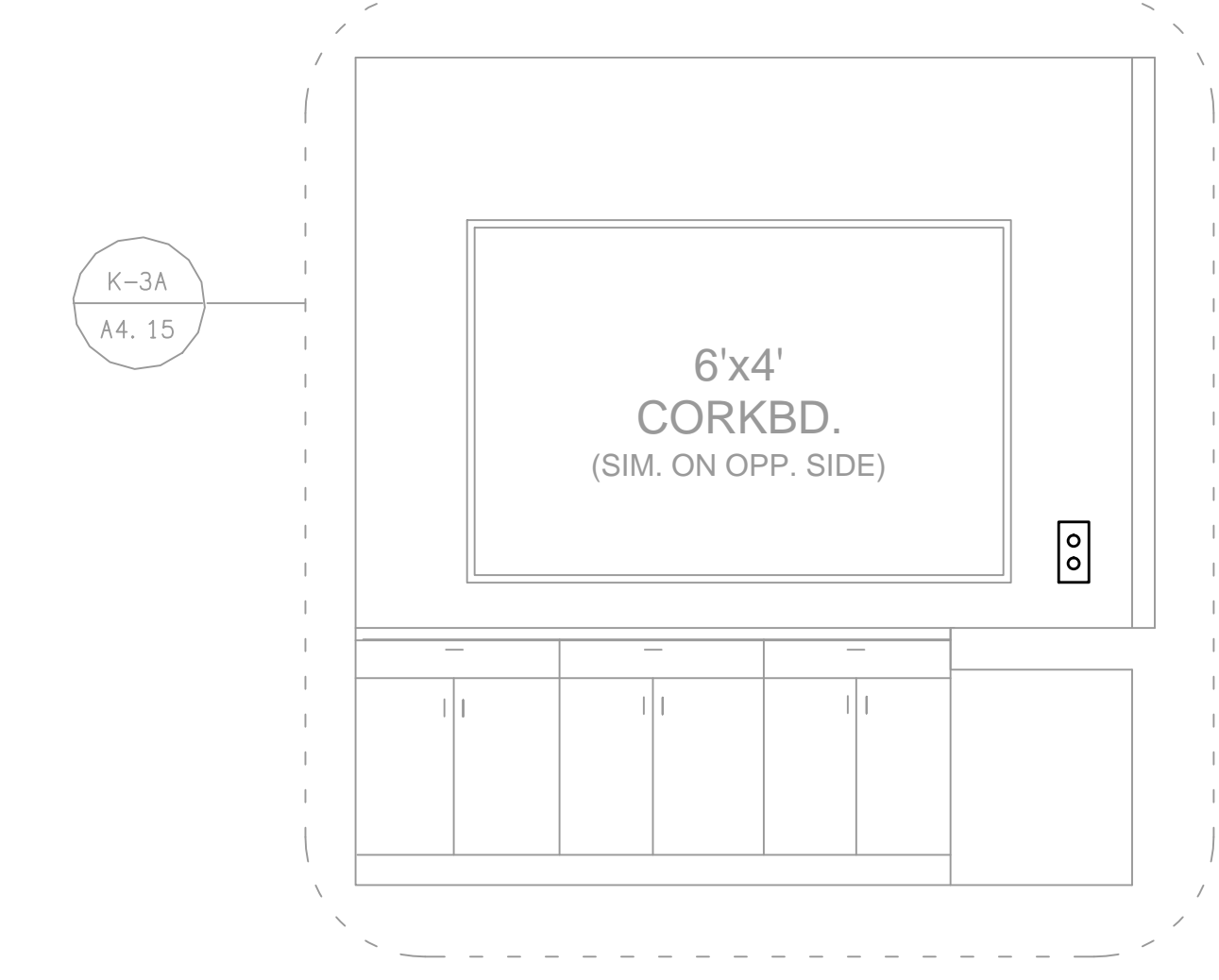
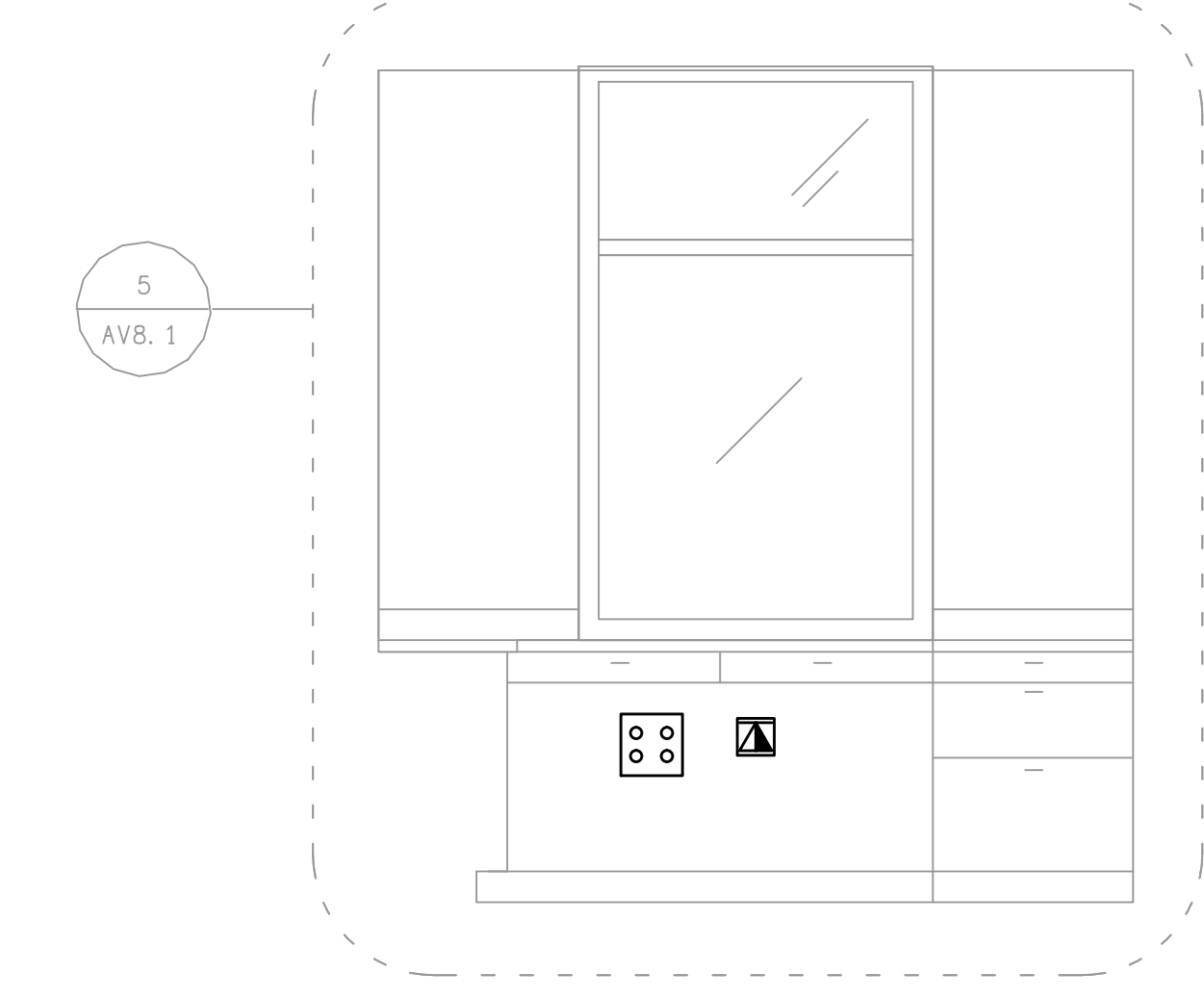
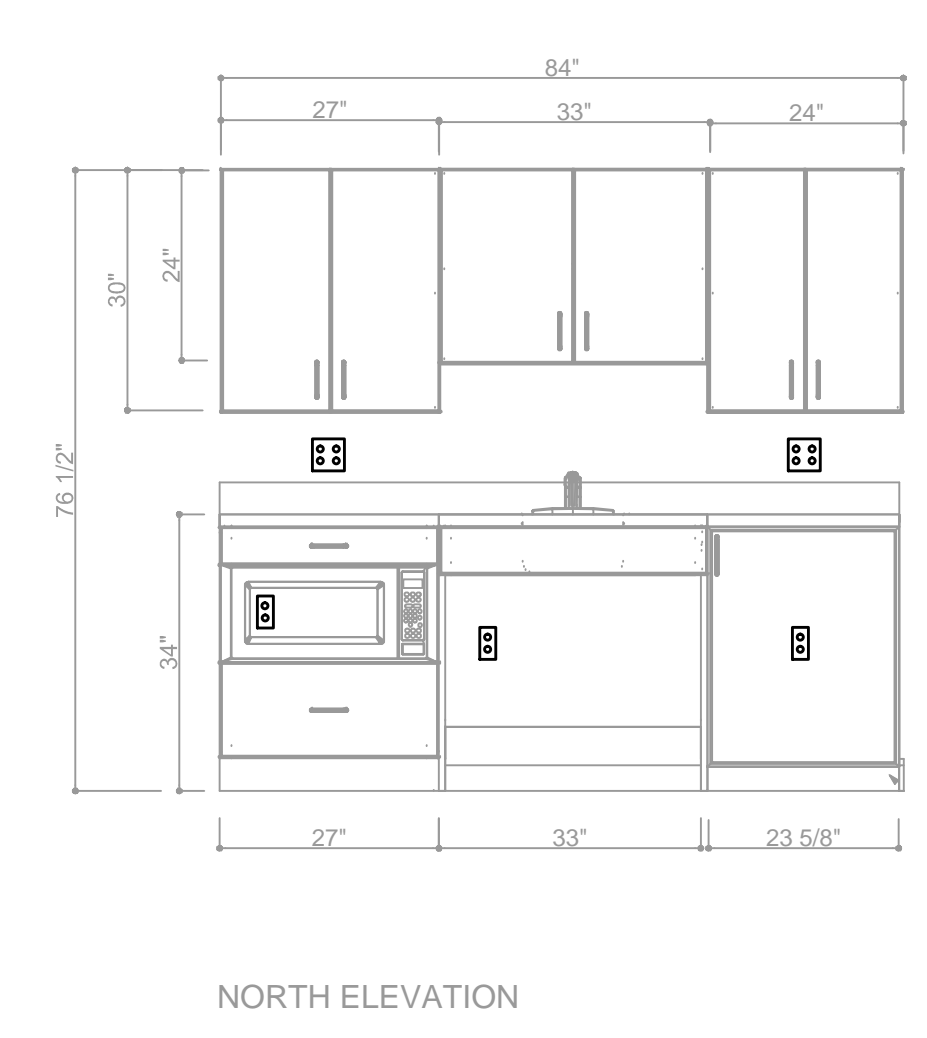
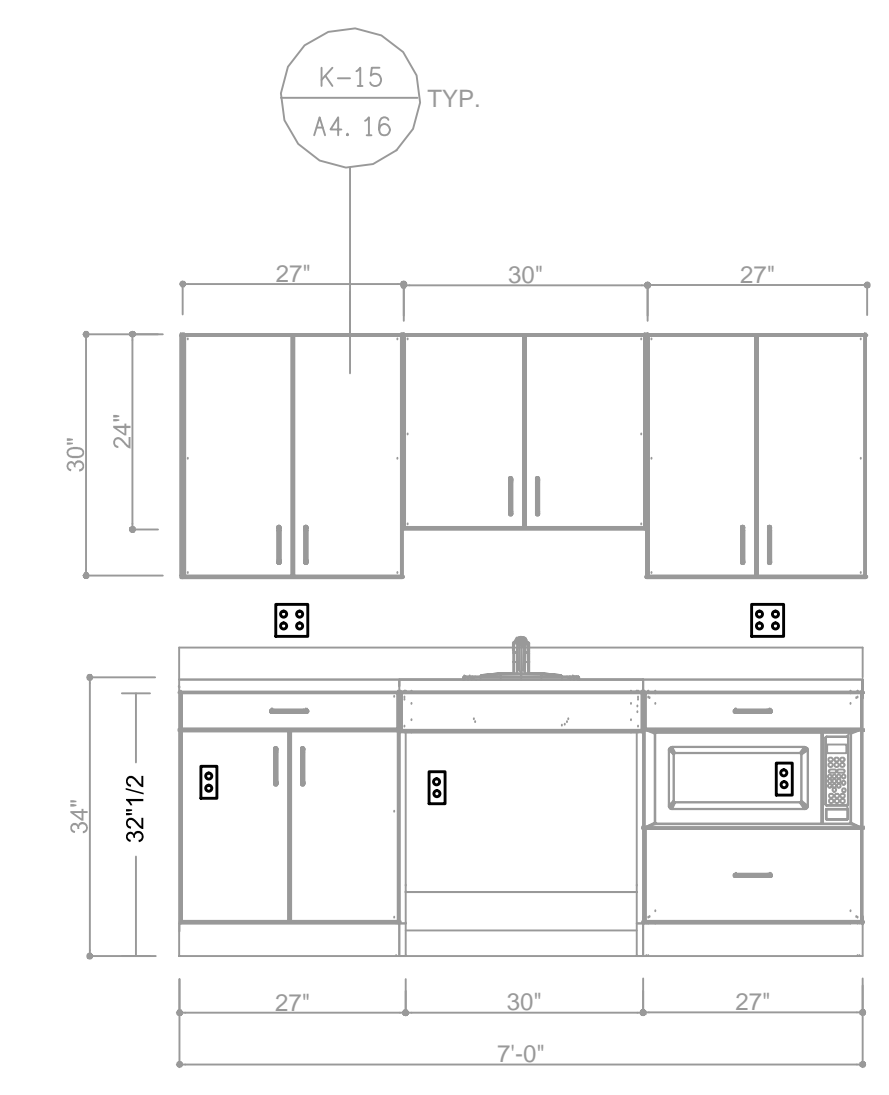
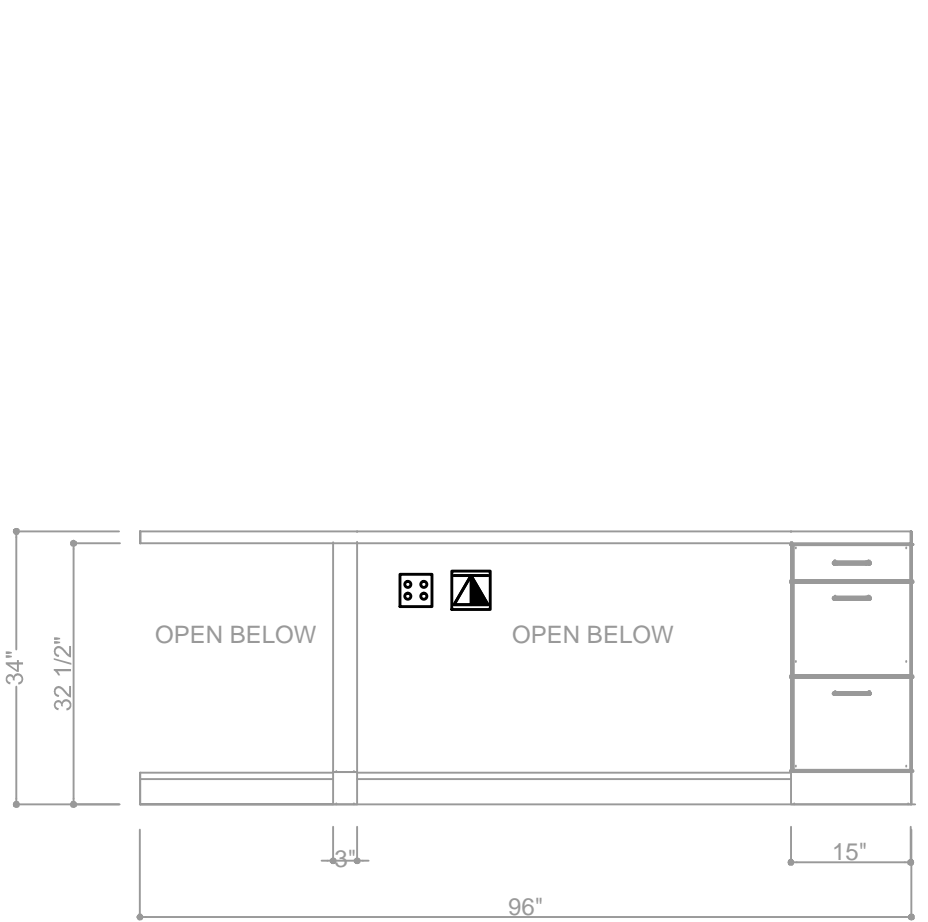


BAND/CHORAL 139 - WEST 11
SCALE: 1/4"-1" E4.5 | A4.15

GREEN ROOM #121 - SOUTH 6
SCALE: 1/2"-1" E4.5 | A4.9

GREEN ROOM #121 - NORTH 3
SCALE: 1/2"-1" E4.5 | A4.9

SEE AV DRAWINGS FOR ADDITIONAL DEVICES



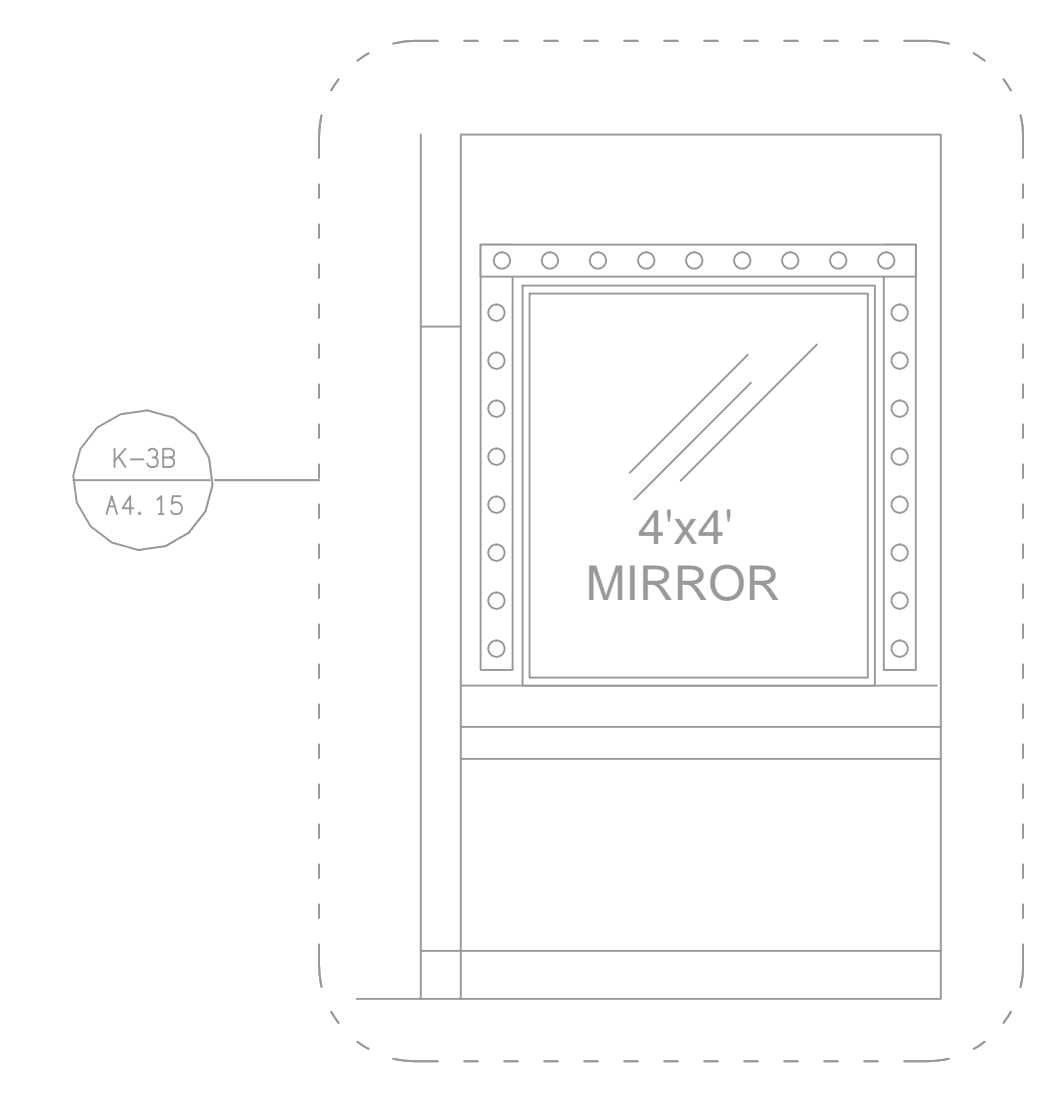
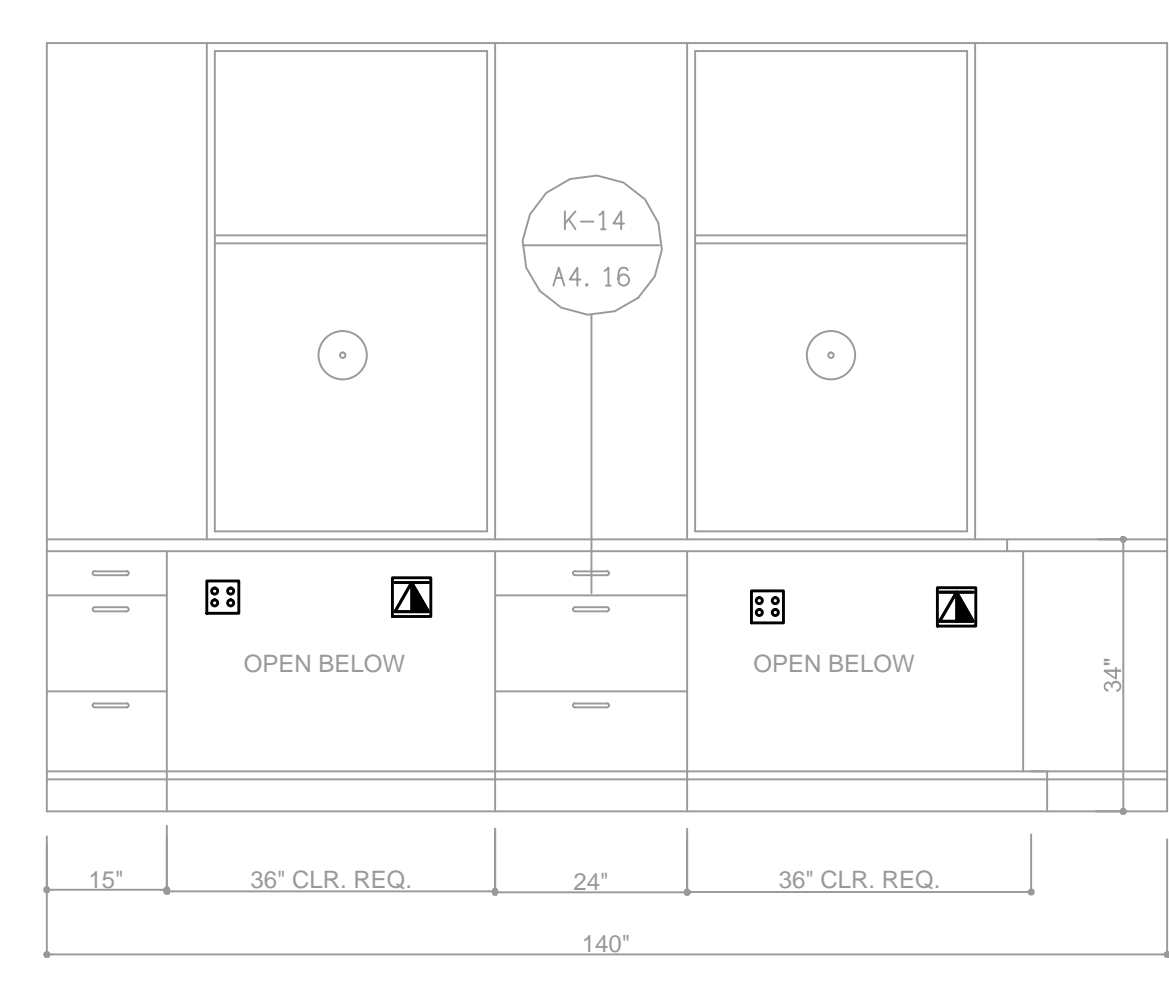
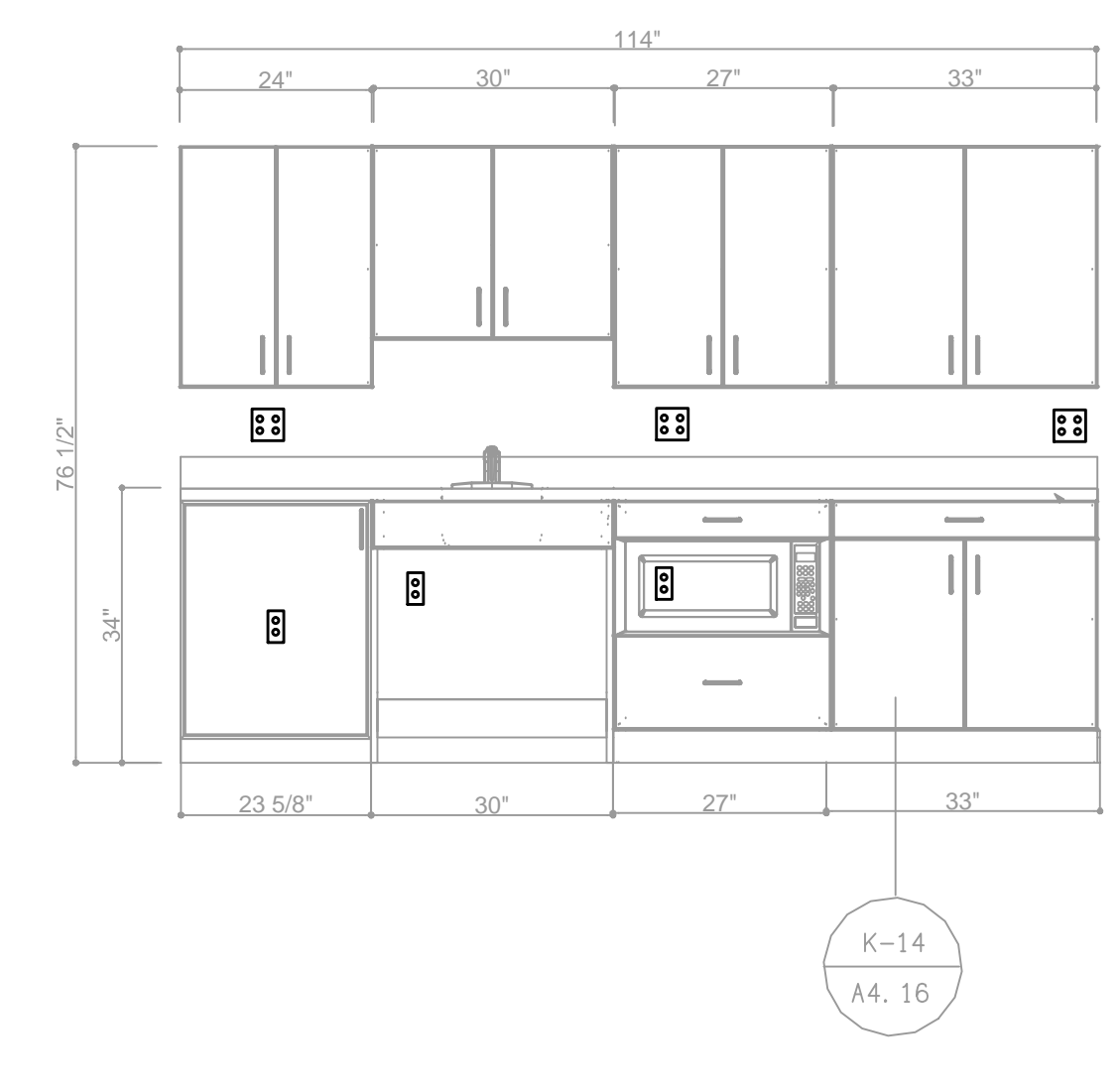
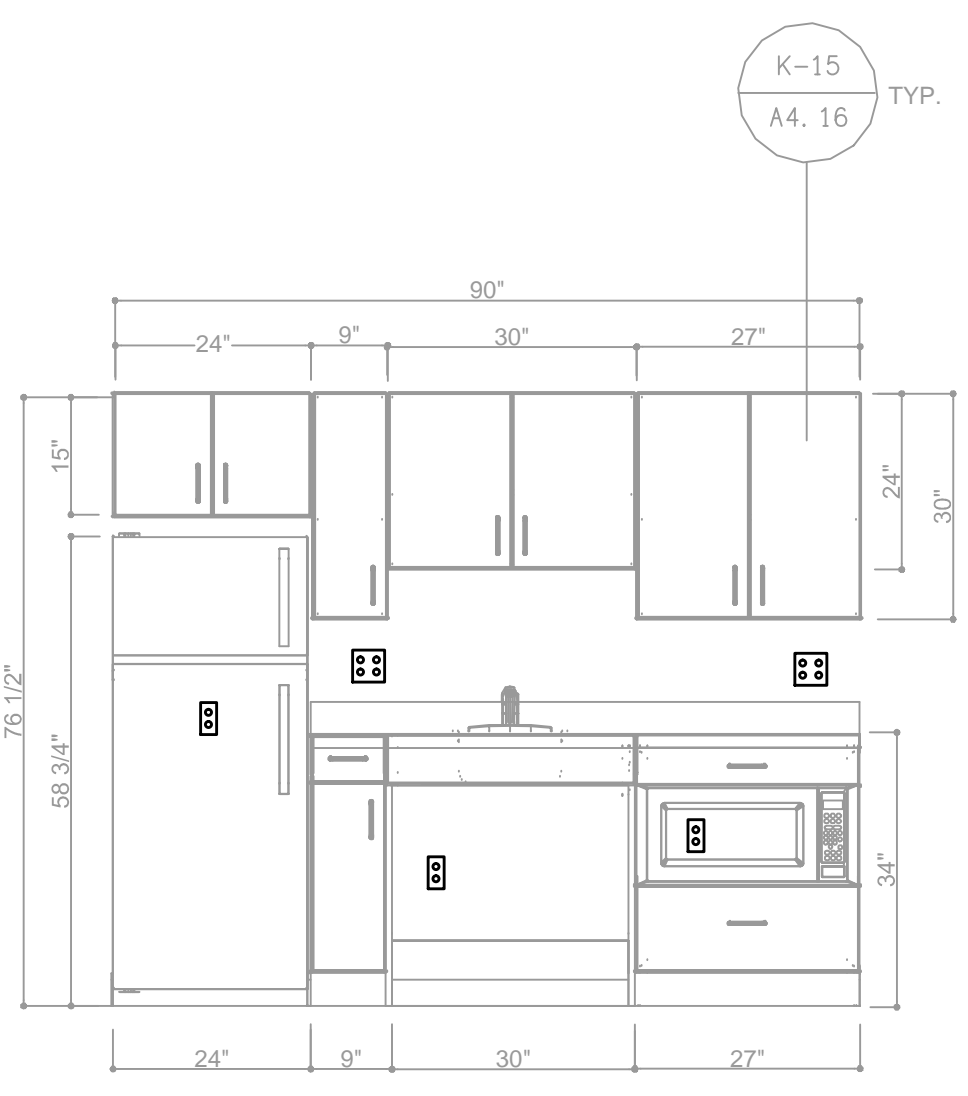
TICKETS ROOM 130 12
SCALE: 1/4"-1" E4.5 | A4.15

SCENE SHOP 115 - SOUTH 9
SCALE: 1/4"-1" E4.5 | A4.15

GREEN ROOM 121 - NORTH 7
SCALE: 1/4"-1" E4.5 | A4.15

TICKETS #130 - WEST 4
SCALE: 1/2"-1" E4.5 | A4.9

TICKETS #130 SOUTH 1
SCALE: 1/2"-1" E4.5 | A4.9



MANAGER 103 13
SCALE: 1/4"-1" E4.5 | A4.15

STORAGE 127 - WEST 10
SCALE: 1/4"-1" E4.5 | A4.15

TICKETS ROOM 105 8
SCALE: 1/4"-1" E4.5 | A4.15

MAKE-UP #122 - NORTH 2
SCALE: 1/2"-1" E4.5 | A4.9

09/20/2010 10:58:00 AM C:\Users\lloyd\Documents\E4.5.dwg



DAVID BURY & COMPANY ARCHITECTS LTD.

215 Church Rd. Ojai, CA 93023 T: 805.646.4817 F: 805.646.3924

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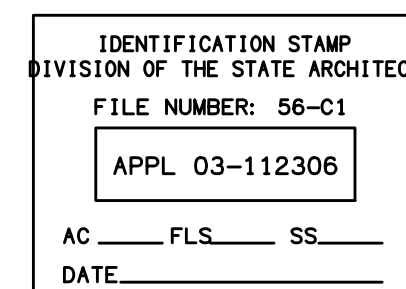
consultant:

LD&A ASSOCIATES INC. CONSULTING ELECTRICAL ENGINEERS... 3300 COSTA MESA BLVD, COSTA MESA, CA 92626-8004

seal:



dsa: 03-112306



the original size of this drawing is 30" x 42"

Submissions / Revisions

Table with columns for Revision No., Description, and Date.

print date: 09/20/2010

sheet title: AV NOTES, SYMBOLS AND LEGEND

E5.0

POWER SYMBOL LEGEND, POWER SCHEDULE, POWER ID LEGEND, DATA SYMBOL LEGEND. Includes symbols for various outlets, jboxes, switches, and grounding points.

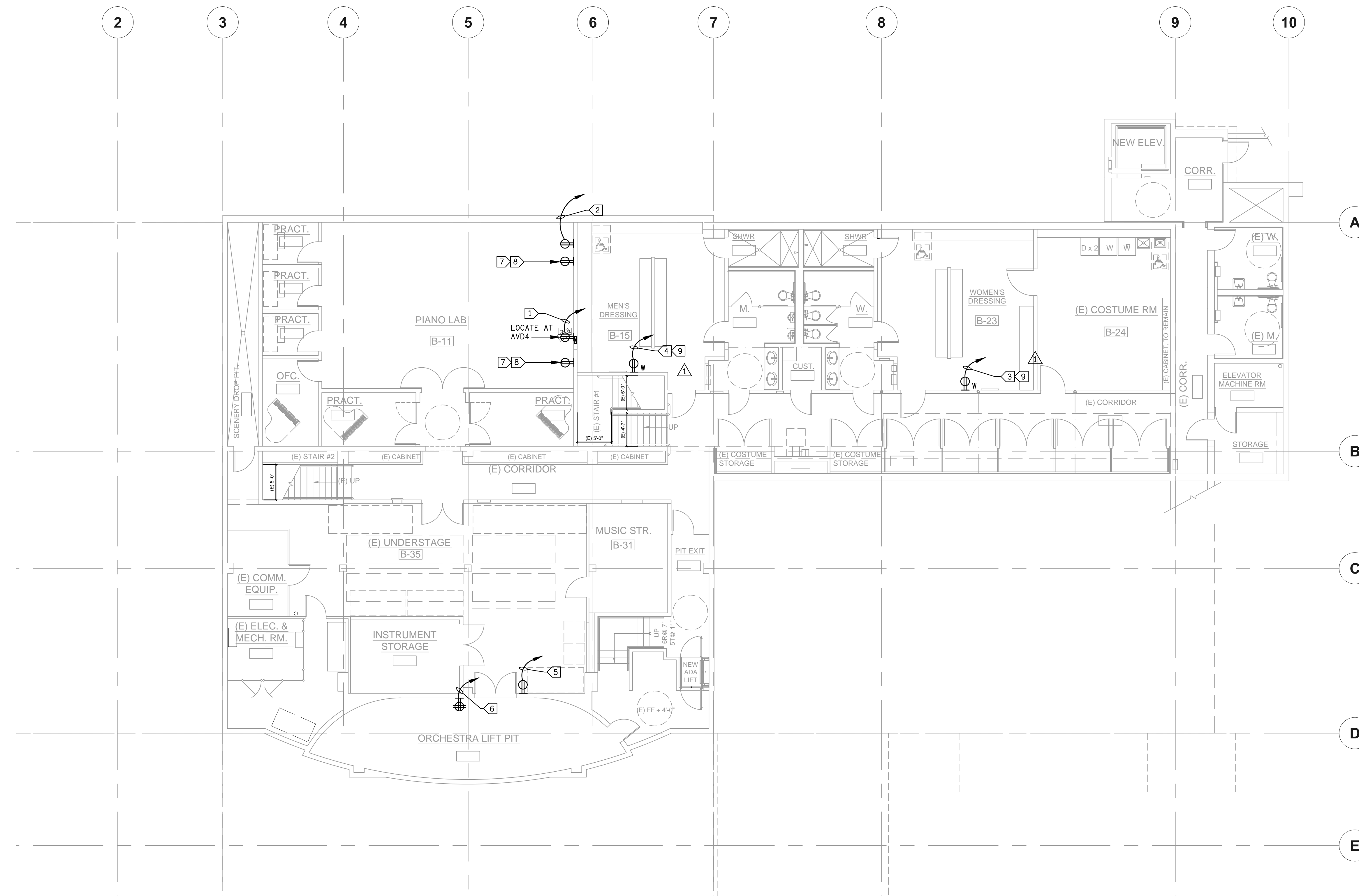
NOTES: GROUNDING AND BONDING: COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES. REFER TO NATIONAL ELECTRICAL CODE SECTION 250 AND RELATED. A. BOND RACEWAY AND RELATED BOXES, PANELS, ENCLOSURES AND CABINETS AS REQUIRED BY APPLICABLE CODE AND DIVISION 16.

GENERAL NOTE: THIS DRAWING IS PROVIDED FOR COORDINATION PURPOSES, AND TO CONVEY THE GENERAL SCOPE OF THE AV SYSTEMS POWER REQUIREMENTS ONLY, AND IS NOT FOR CONSTRUCTION.

POWER SYMBOL LEGEND, POWER SCHEDULE, POWER ID LEGEND, DATA SYMBOL LEGEND. Includes symbols for various outlets, jboxes, switches, and grounding points.

NOTES: GROUNDING AND BONDING: COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES. REFER TO NATIONAL ELECTRICAL CODE SECTION 250 AND RELATED. A. BOND RACEWAY AND RELATED BOXES, PANELS, ENCLOSURES AND CABINETS AS REQUIRED BY APPLICABLE CODE AND DIVISION 16.

GENERAL NOTE: THIS DRAWING IS PROVIDED FOR COORDINATION PURPOSES, AND TO CONVEY THE GENERAL SCOPE OF THE AV SYSTEMS POWER REQUIREMENTS ONLY, AND IS NOT FOR CONSTRUCTION.



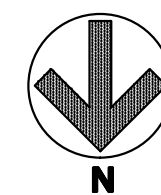
- SHEET NOTES:**
1. INSTALL A/V CABLE IN CABLE TRAY TO THE MAXIMUM EXTENT POSSIBLE.

- KEY NOTES:**
- ① IPS1-1 600 WATTS.
 - ② IPS1-3 300 WATTS.
 - ③ IPS1-5 600 WATTS.
 - ④ IPS1-7 600 WATTS.
 - ⑤ IPS1-9 900 WATTS.
 - ⑥ IPS1-11 900 WATTS.
 - ⑦ CONNECT TO POWERED SPEAKER.
 - ⑧ IPS1-40.
 - ⑨ FOR VIDEO MONITOR.

ALL IPS1 RECEPTACLES ARE IG TYPE WITH DEDICATED NEUTRAL.

CONTRACTOR TO VERIFY AV DEVICE LOCATION WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH IN.

BASEMENT AV POWER PLAN
SCALE 1/8"=1'-0" **E5.1**



REFER TO AV PLANS FOR ADDITIONAL REQUIREMENTS AND MOUNTING HEIGHT



DAVID BURY & COMPANY ARCHITECTS LTD.

215 Church Rd.
Ojai, CA 93023
T: 805.646.4817
F: 805.646.3924

project:

Ventura College Theater, Bldg G Modernization

4667 Telegraph Rd.
Ventura, CA 93003

client:

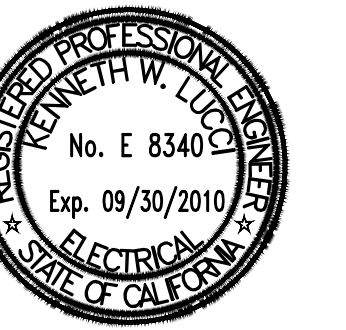
Ventura County Community College District

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LDON & ASSOCIATES INC.
COMMERCIAL ELECTRICAL ENGINEERING
3000 COSTA MESA BLVD, #401
CARMELITE, CA 95006-8004
(805) 399-6230 FAX (805) 399-6239
Web Site: <http://www.lndon.com>

seal:



dsa: 03-112306

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FILE NUMBER: 58-C1
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the original size of this drawing is 30" x 42"

Submissions / Revisions

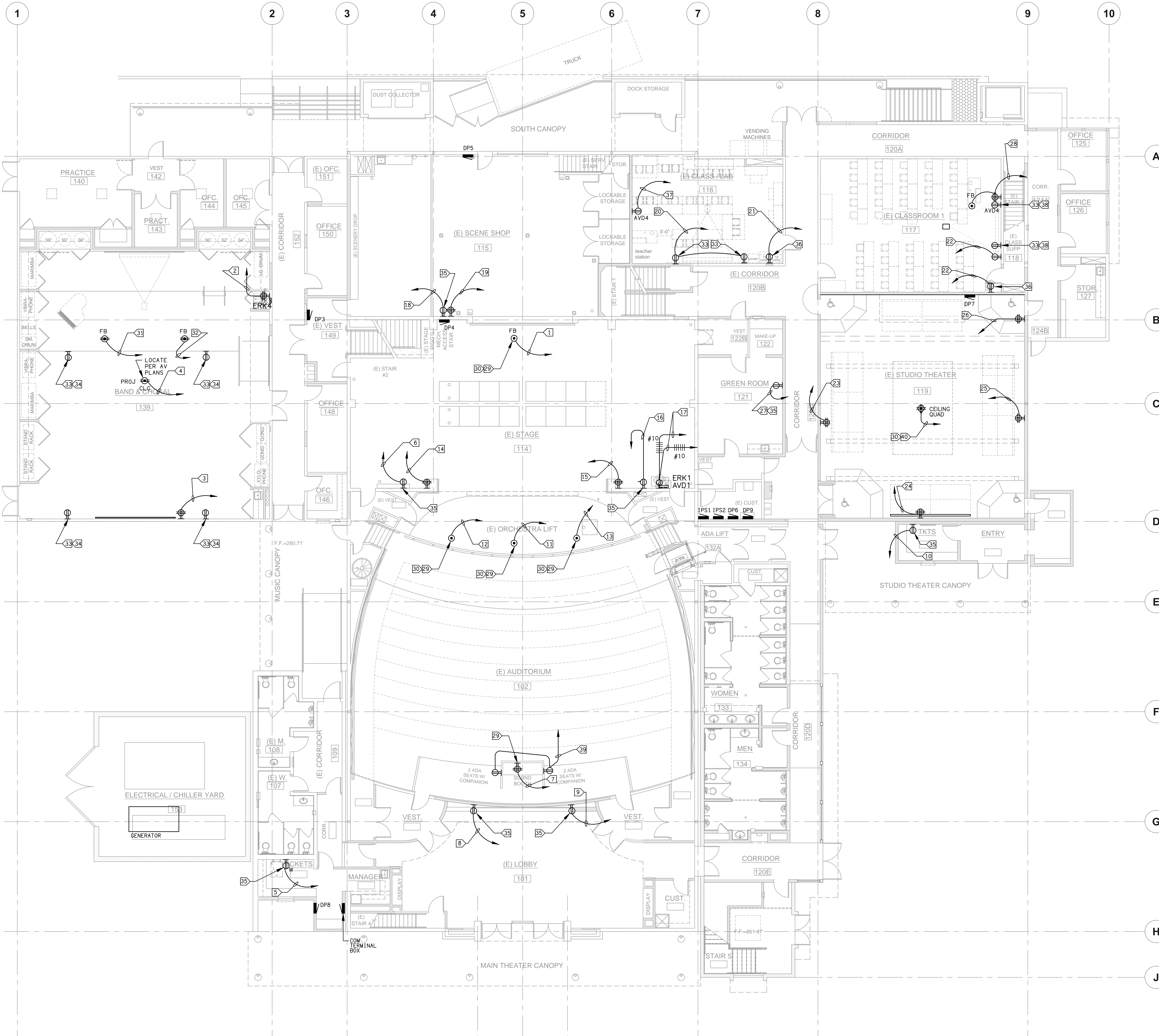
No.	Description	Date

cad by: _____ chkd by: _____

print date: 09/20/2010

sheet title:
BASEMENT AV POWER PLAN

E5.1



SHEET NOTES:

1. INSTALL A/V CABLE IN CABLE TRAY TO THE MAXIMUM EXTENT POSSIBLE.
2. FB = FLOOR BOX.

KEY NOTES:

- 1 1800 WATTS IPS1-2.
- 2 1800 WATTS IPS1-4.
- 3 1800 WATTS IPS1-6.
- 4 900 WATTS IPS1-8.
- 5 600 WATTS IPS1-10.
- 6 900 WATTS IPS1-12.
- 7 1800 WATTS IPS1-14.
- 8 600 WATTS IPS1-16.
- 9 600 WATTS IPS1-18.
- 10 900 WATTS IPS1-20.
- 11 600 WATTS IPS1-22.
- 12 600 WATTS IPS1-24.
- 13 600 WATTS IPS1-26.
- 14 1800 WATTS IPS2-2.
- 15 1800 WATTS IPS2-4.
- 16 600 WATTS IPS2-6.
- 17 IPS2-1.3.5: IPS2-7, 9, 11.
- 18 1800 WATTS IPS2-10.
- 19 600 WATTS IPS2-12.
- 20 600 WATTS IPS2-14.
- 21 600 WATTS IPS2-16.
- 22 300 WATTS IPS2-18.
- 23 1800 WATTS IPS2-20.
- 24 1800 WATTS IPS2-22.
- 25 1800 WATTS IPS2-24.
- 26 1800 WATTS IPS2-26.
- 27 600 WATTS IPS2-28.
- 28 300 WATTS IPS2-30.
- 29 VERIFY LOCATION WITH OWNERS REPRESENTATIVE.
- 30 FLOORPOCKETS PER AV PLANS WITH COVERS.
- 31 600 WATT IPS1-28.
- 32 600 WATT IPS1-30.
- 33 CONNECT TO POWERED SPEAKER.
- 34 IPS1-42.
- 35 CONNECT TO VIDEO MONITOR.
- 36 CONNECT TO CHARGING CART (VERIFY CONNECTION TYPE)
- 37 IPS2-42.
- 38 IPS2-40.

IPS1 AND IPS2 RECEPTACLES ARE IGT TYPE WITH DEDICATED NEUTRALS

REFER TO AV PLANS FOR ADDITIONAL REQUIREMENTS AND MOUNTING HEIGHT

CONTRACTOR TO VERIFY ERK LOCATION WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH IN.



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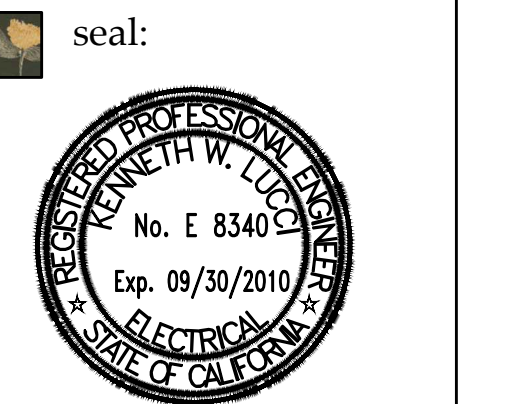
4667 Telegraph Rd.
Ventura, CA 93003

client:
Ventura County Community College District

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LDAD & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3300 COSTA MESA BLVD., SUITE 200
COSTA MESA, CA 92626-5099
(714) 446-4300 FAX (714) 446-4309
www.ldad.com



dsc: 03-112306

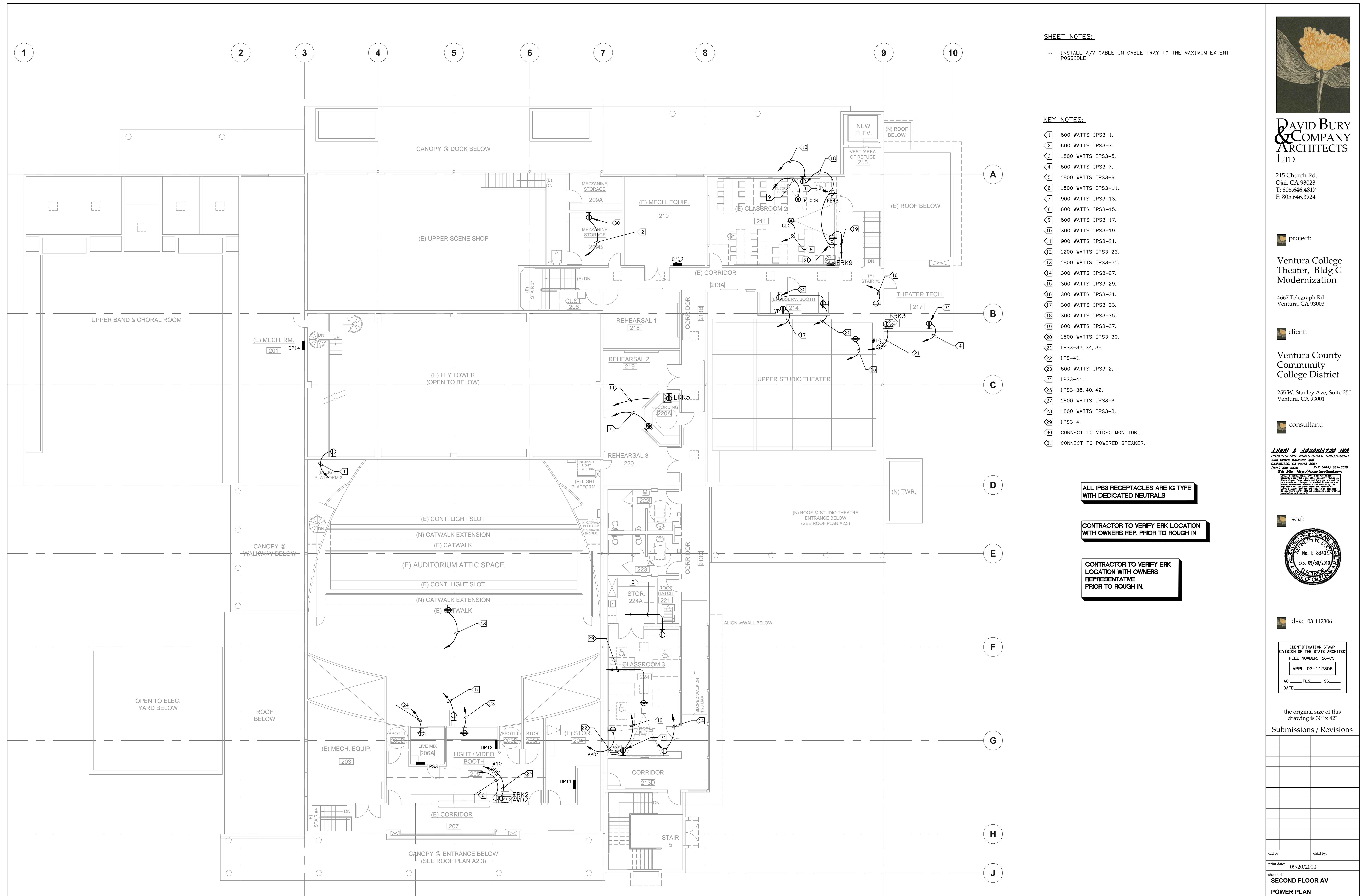
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cad by: chd by:
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sheet title:
FIRST FLOOR AV POWER PLAN

E5.2



SHEET NOTES:
 1. INSTALL A/V CABLE IN CABLE TRAY TO THE MAXIMUM EXTENT POSSIBLE.

KEY NOTES:

1	600 WATTS IPS3-1.
2	600 WATTS IPS3-3.
3	1800 WATTS IPS3-5.
4	600 WATTS IPS3-7.
5	1800 WATTS IPS3-9.
6	1800 WATTS IPS3-11.
7	900 WATTS IPS3-13.
8	600 WATTS IPS3-15.
9	600 WATTS IPS3-17.
10	300 WATTS IPS3-19.
11	900 WATTS IPS3-21.
12	1200 WATTS IPS3-23.
13	1800 WATTS IPS3-25.
14	300 WATTS IPS3-27.
15	300 WATTS IPS3-29.
16	300 WATTS IPS3-31.
17	300 WATTS IPS3-33.
18	300 WATTS IPS3-35.
19	600 WATTS IPS3-37.
20	1800 WATTS IPS3-39.
21	IP53-32, 34, 36.
22	IPS-41.
23	600 WATTS IPS3-2.
24	IPS3-41.
25	IPS3-38, 40, 42.
26	1800 WATTS IPS3-6.
27	1800 WATTS IPS3-8.
28	IPS3-4.
29	CONNECT TO VIDEO MONITOR.
30	CONNECT TO POWERED SPEAKER.

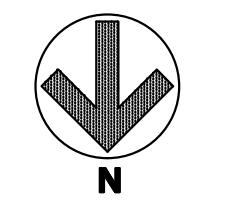
ALL IP53 RECEPTACLES ARE IG TYPE WITH DEDICATED NEUTRALS

CONTRACTOR TO VERIFY ERK LOCATION WITH OWNERS REP. PRIOR TO ROUGH IN

CONTRACTOR TO VERIFY ERK LOCATION WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH IN.

REFER TO AV PLANS FOR ADDITIONAL REQUIREMENTS AND MOUNTING HEIGHT

2ND FLOOR AV POWER PLAN
 SCALE: 1/8"=1'-0" E5.3



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4667 Telegraph Rd.
 Ventura, CA 93003

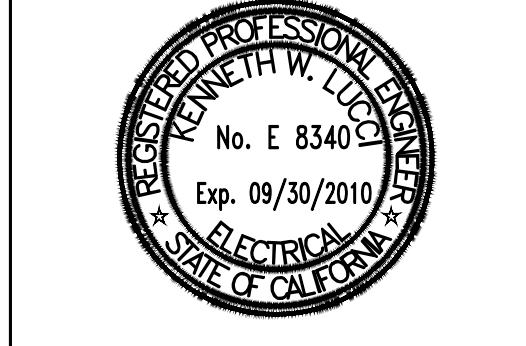
client:
Ventura County Community College District

255 W. Stanley Ave, Suite 250
 Ventura, CA 93001

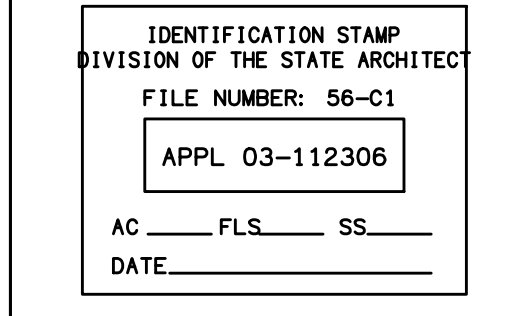
consultant:

LD&A ASSOCIATES INC.
 COMMERCIAL ELECTRICAL ENGINEERING
 5350 CORTA WALPADE, #411
 CARLSBAD, CA 92008-8004
 (805) 599-6430 FAX (805) 599-6579
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seal:



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No.	Description	Date

print date: 09/20/2010
 sheet title: **SECOND FLOOR AV POWER PLAN**

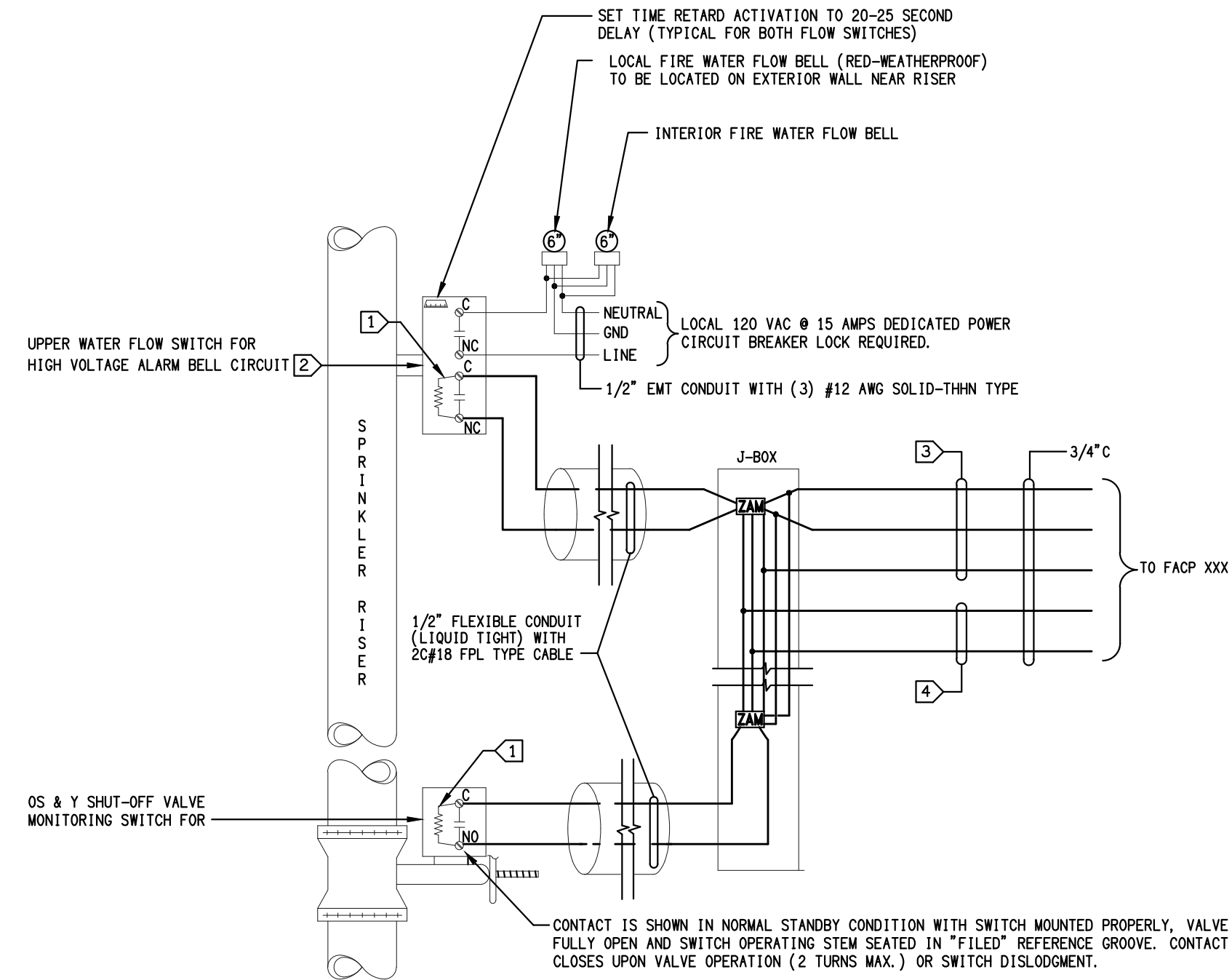
E5.3

DETAIL NOTES:

1. VERIFY AND PROVIDE CABLING AND CONNECTIONS PER FIRE ALARM VENDORS REQUIREMENTS.

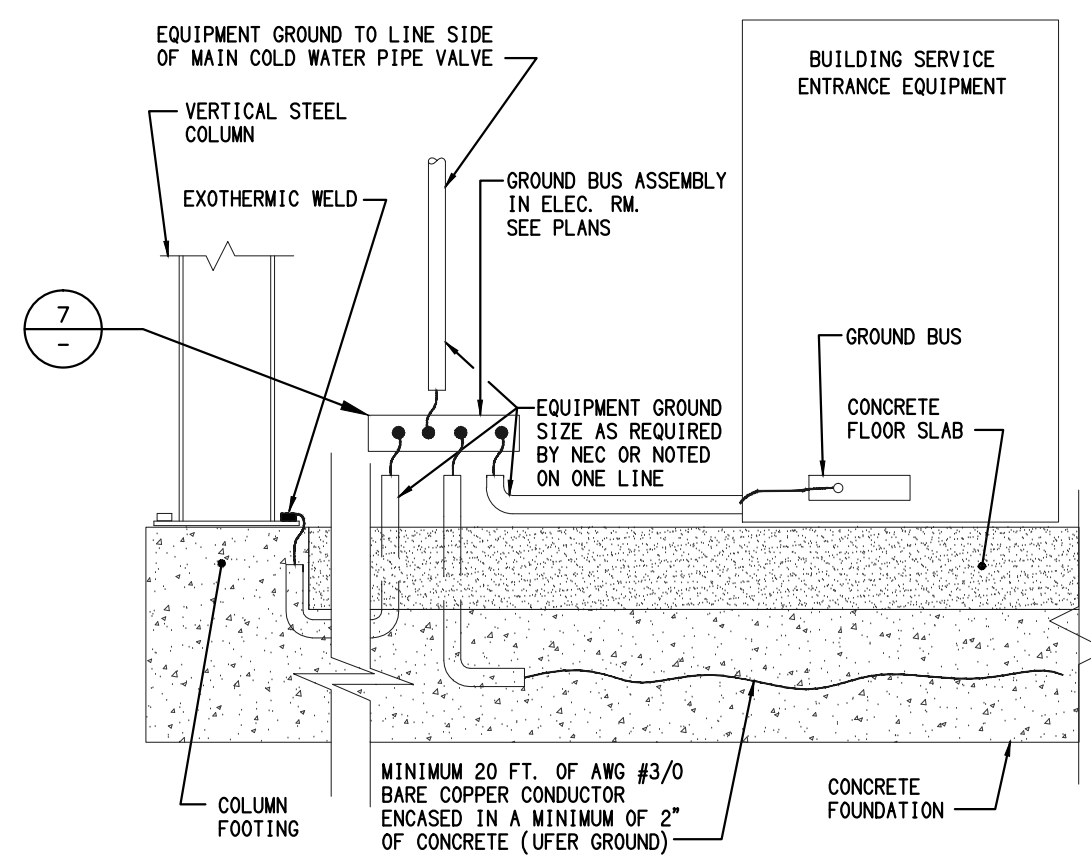
DETAIL KEY NOTES:

- ① INSTALL END OF LINE RESISTOR (3.3K OHMS 1 WATT).
- ② CONTACTS ARE SHOWN IN NORMAL STANDBY CONDITION WITH SWITCH MOUNTED PROPERLY AND RISER MET. CONTACTS CLOSE UPON WATER FLOW.
- ③ 5/16" #18 AWG FPL TYPE CABLE.
- ④ 20#14 AWG. FPL TYPE CABLE.



CONTRACTOR TO VERIFY LOCATION OF OSY ASSEMBLY AND PROVIDE CONNECTION

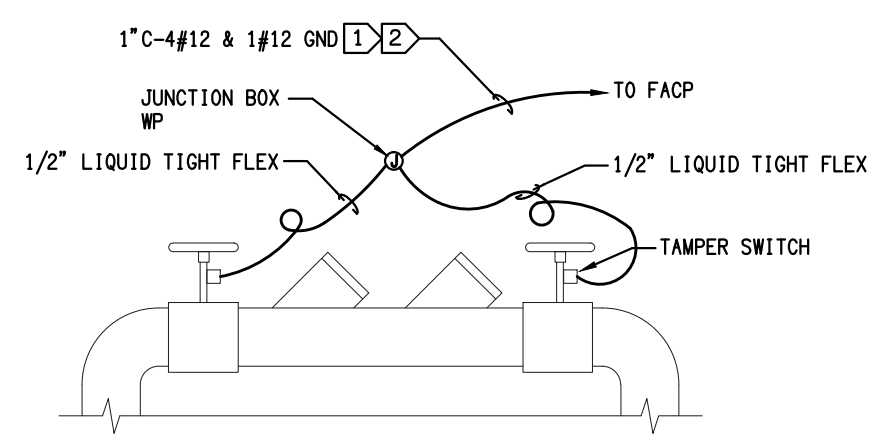
SPRINKLER RISER WITH OSY VALVE WIRING DIAGRAM 8
SCALE NONE E6.0



BUILDING SERVICE EQUIPMENT GROUNDING 9
SCALE NONE E6.0

DETAIL KEY NOTES:

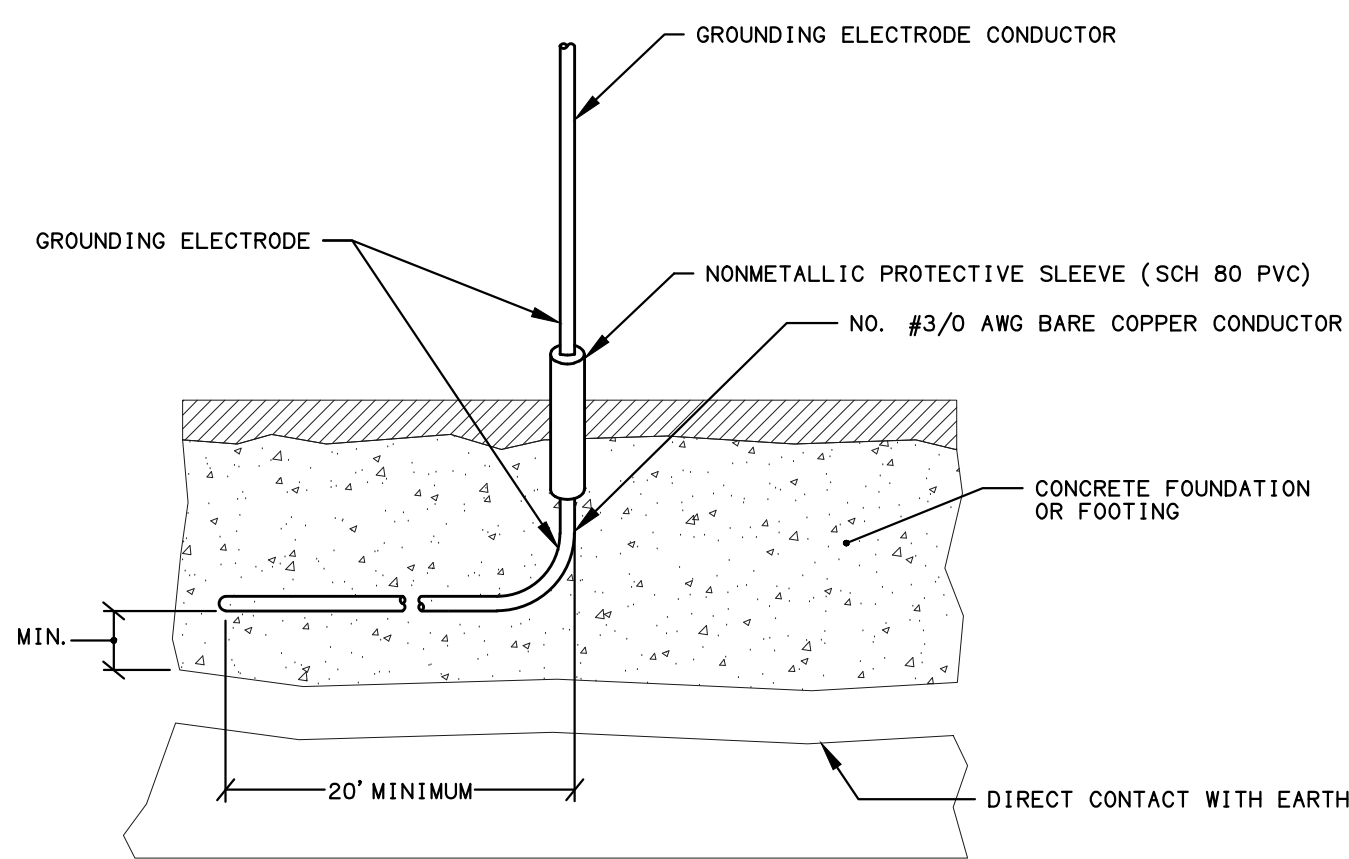
- ① CONTINUOUS PULL. NO SPLICES. LABELED BY CONTRACTOR.
- ② VERIFY AND PROVIDE CABLING PER FIRE ALARM VENDORS REQUIREMENTS.



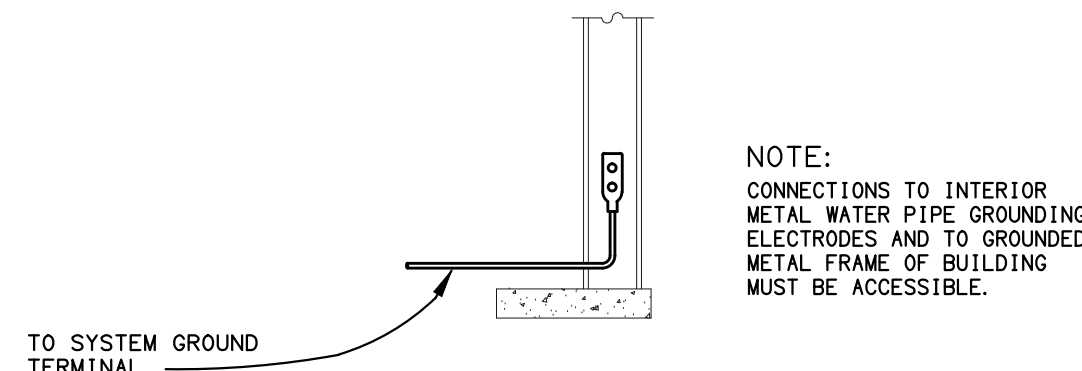
OUTDOOR BACKFLOW PREVENTER WIRING DIAGRAM 4
SCALE NONE E6.0

DETAIL NOTES:

1. CONCRETE-ENCASED ELECTRODE: AN ELECTRODE ENCASED BY AT LEAST 2 INCHES OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 20 FEET OF ONE OR OF BARE COPPER CONDUCTOR NOT SMALLER THAN NO. #3/0.

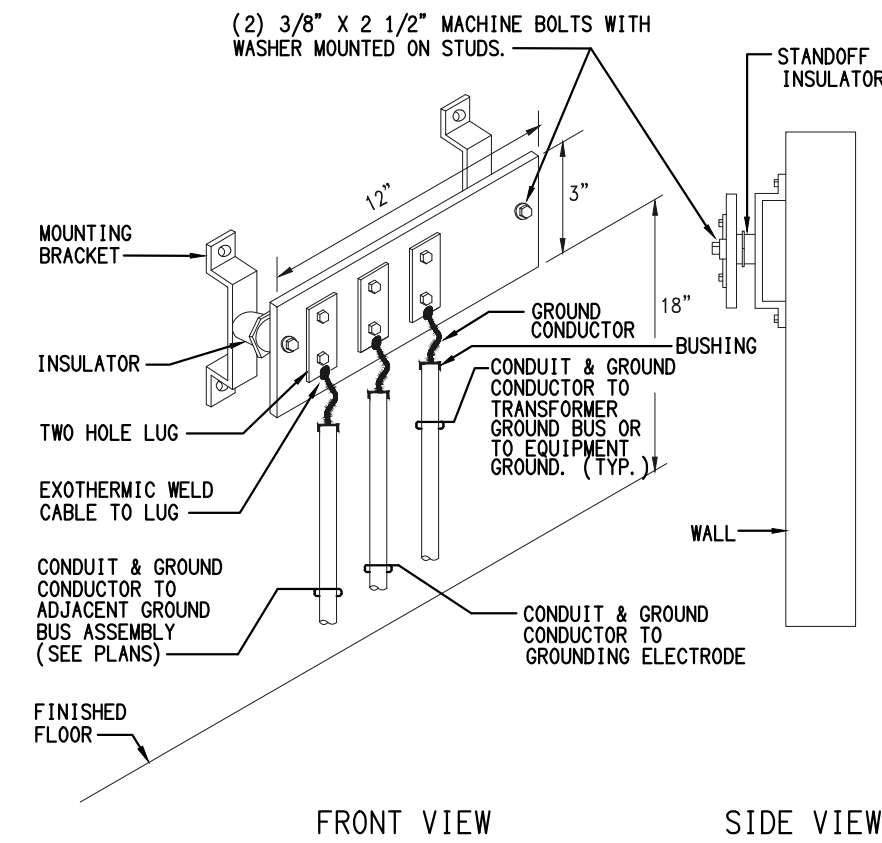


UFRER GROUND DETAIL 5
SCALE NONE E6.0

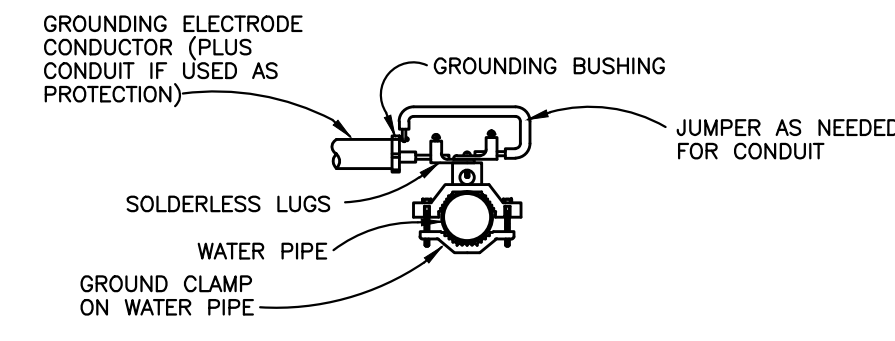


METAL FRAME GROUNDING DETAIL 6
SCALE NONE E6.0

PROVIDE PERMANENT LABELS ON ALL GROUNDS



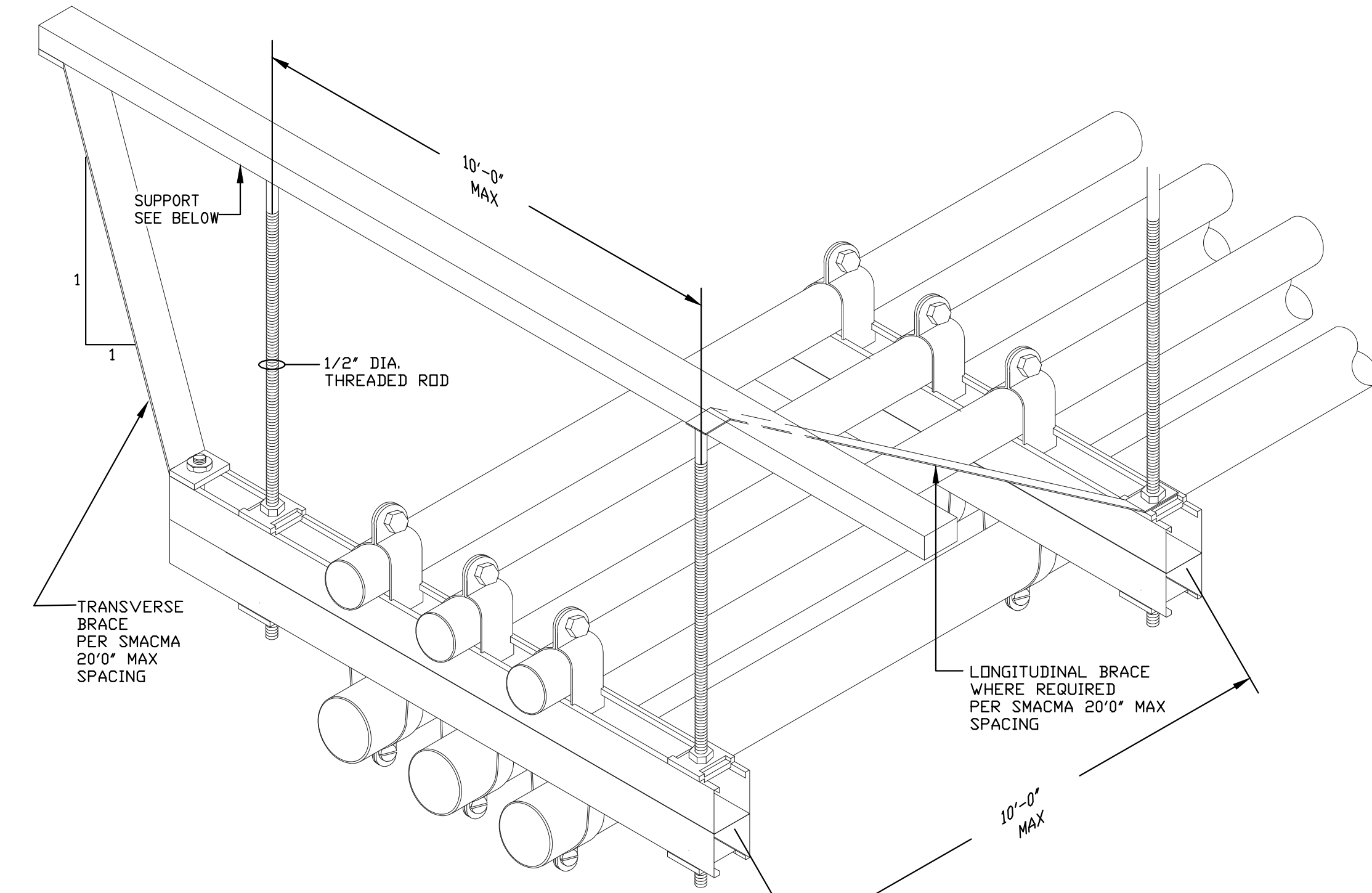
GROUNDING ELECTRODE GROUND BUS ASSEMBLY 7
SCALE NONE E6.0



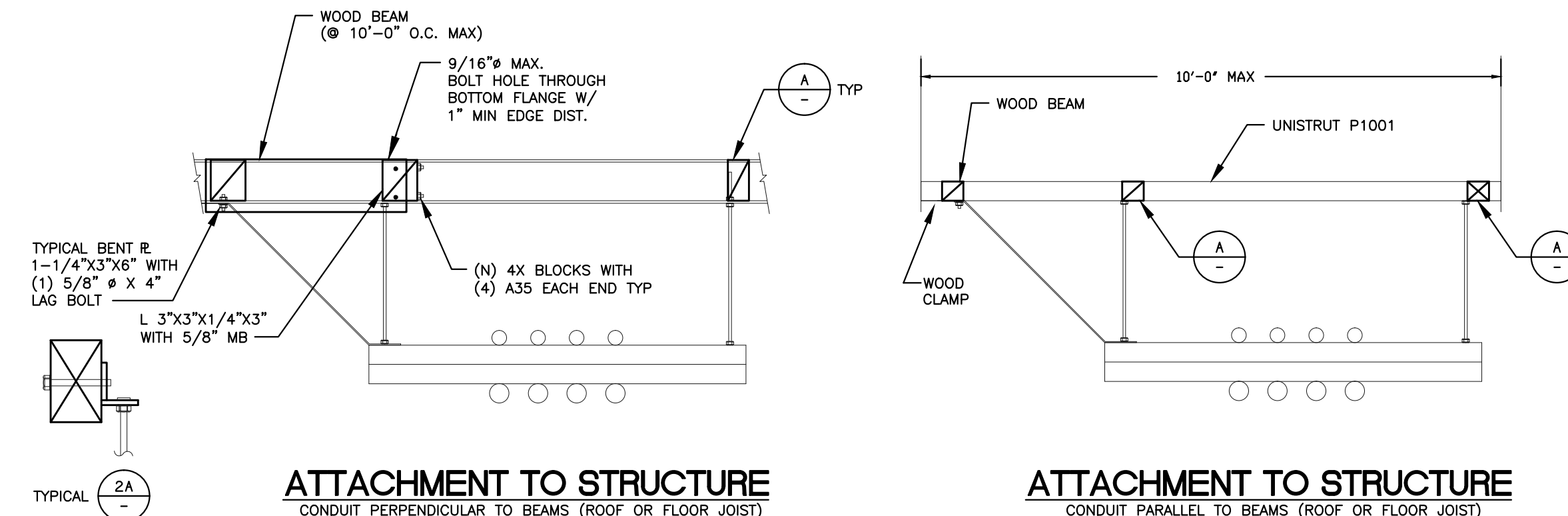
COLD WATER GROUND DETAIL 1
SCALE NONE E6.0

DETAIL NOTES:

1. ALL EXPOSED CONDUIT SHALL BE SUPPORTED BY CONDUIT SUPPORT SYSTEM AND INSTALLED PER NEC.
2. PROVIDE COMPLETE SEISMIC ANCHORAGE AND BRACING FOR LATERAL AND VERTICAL SUPPORT OF CONDUIT PER LATEST SMACMA SEISMIC RESTRAINT MANUAL, LEVEL 'A'

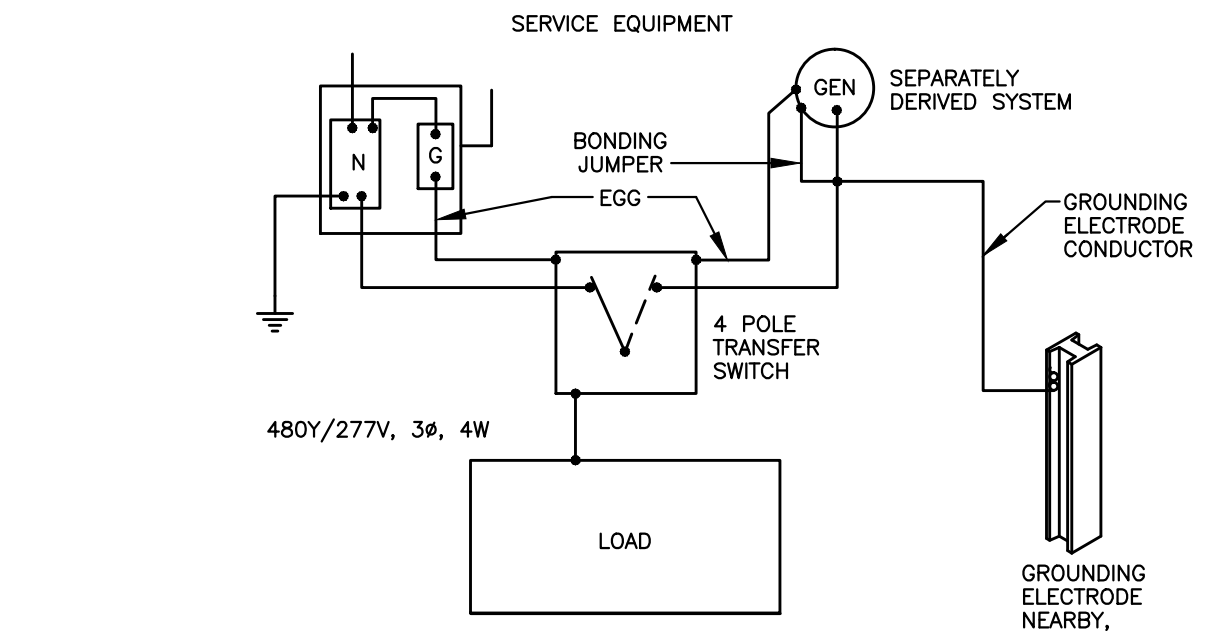


TYPICAL CONDUIT SUPPORT DETAIL 2
SCALE NONE E6.0



ATTACHMENT TO STRUCTURE
CONDUIT PERPENDICULAR TO BEAMS (ROOF OR FLOOR JOIST)

ATTACHMENT TO STRUCTURE
CONDUIT PARALLEL TO BEAMS (ROOF OR FLOOR JOIST)



GROUNDING SEPARATELY DERIVED SYSTEM 3
SCALE NONE E6.0



DAVID BURY & COMPANY ARCHITECTS LTD.

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F: 805.646.3924

project:

Ventura College Theater, Bldg G Modernization

4667 Telegraph Rd.
Ventura, CA 93003

client:

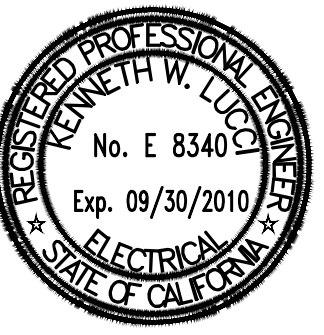
Ventura County Community College District

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LD&S ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERING
3850 COSTA MESA DR., SUITE 100
CANAVERAL, CA 93001-8084
(805) 389-6230 FAX (805) 389-6519
Web Site: <http://www.ldands.com>

seal:



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sheet title: **ELECTRICAL DETAILS**

E6.0



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Ventura County
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Ventura, CA 93001

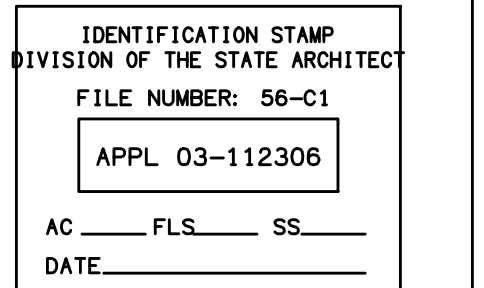
consultant:

LUDWIG & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERING
3501 COSTA MESA BLVD., SUITE 400
CANTON, CA 94501-1609
(925) 399-8210 FAX (925) 399-8219
Web Site: www.ludwigeng.com

seal:



dca: 03-112306



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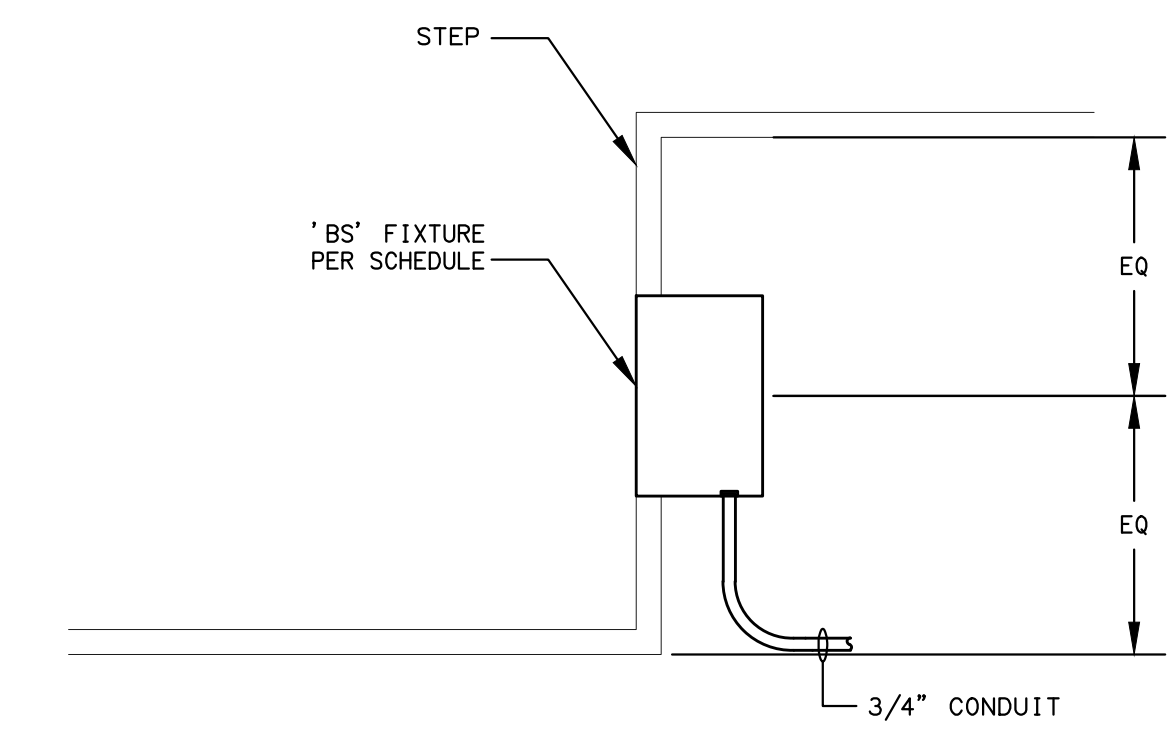
Submissions / Revisions

NO.	DATE	DESCRIPTION

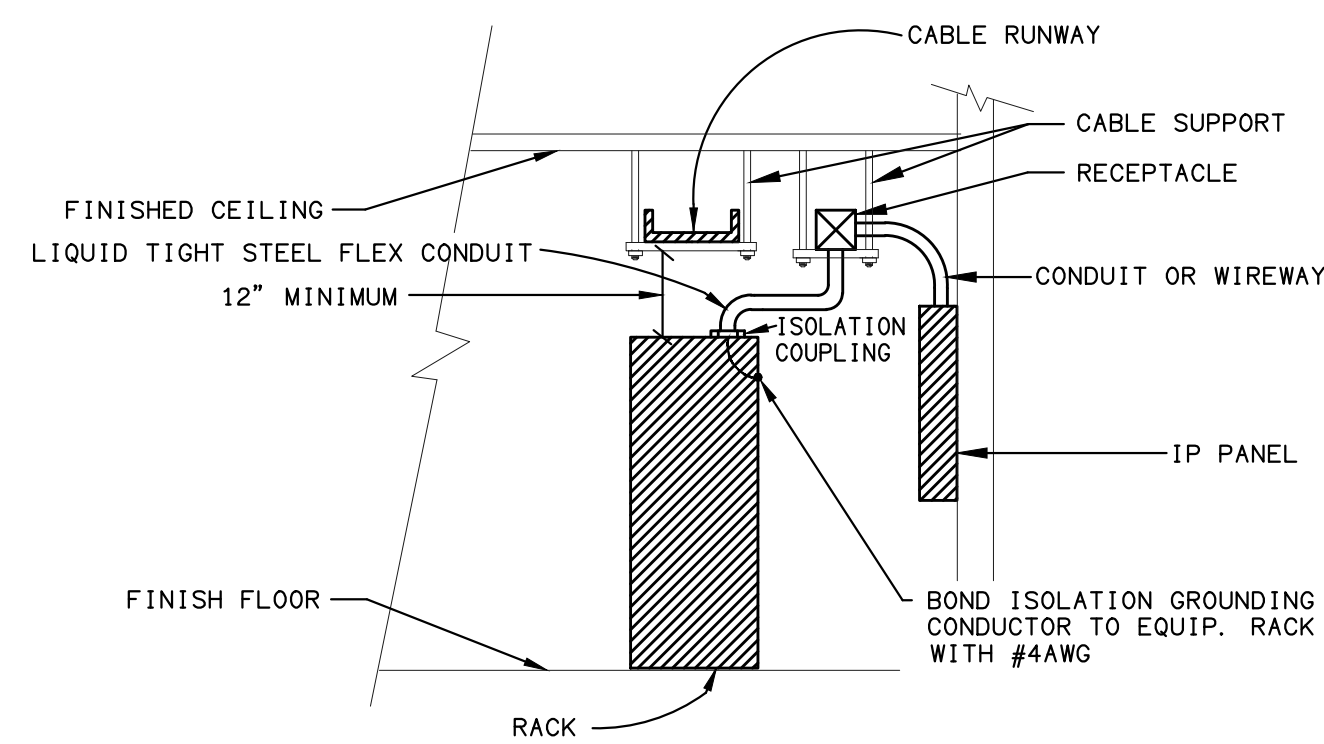
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sheet title: ELECTRICAL DETAILS

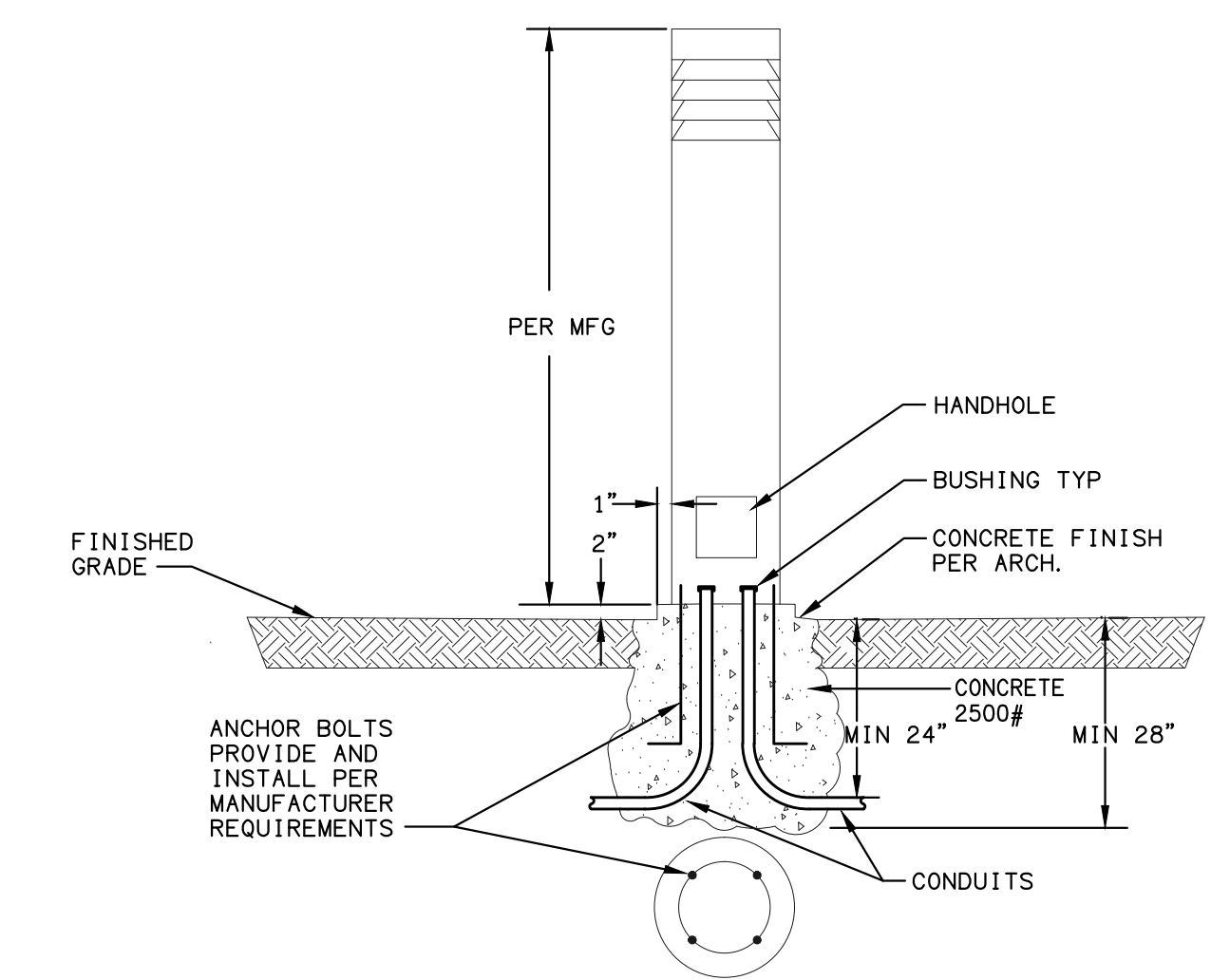
E6.10



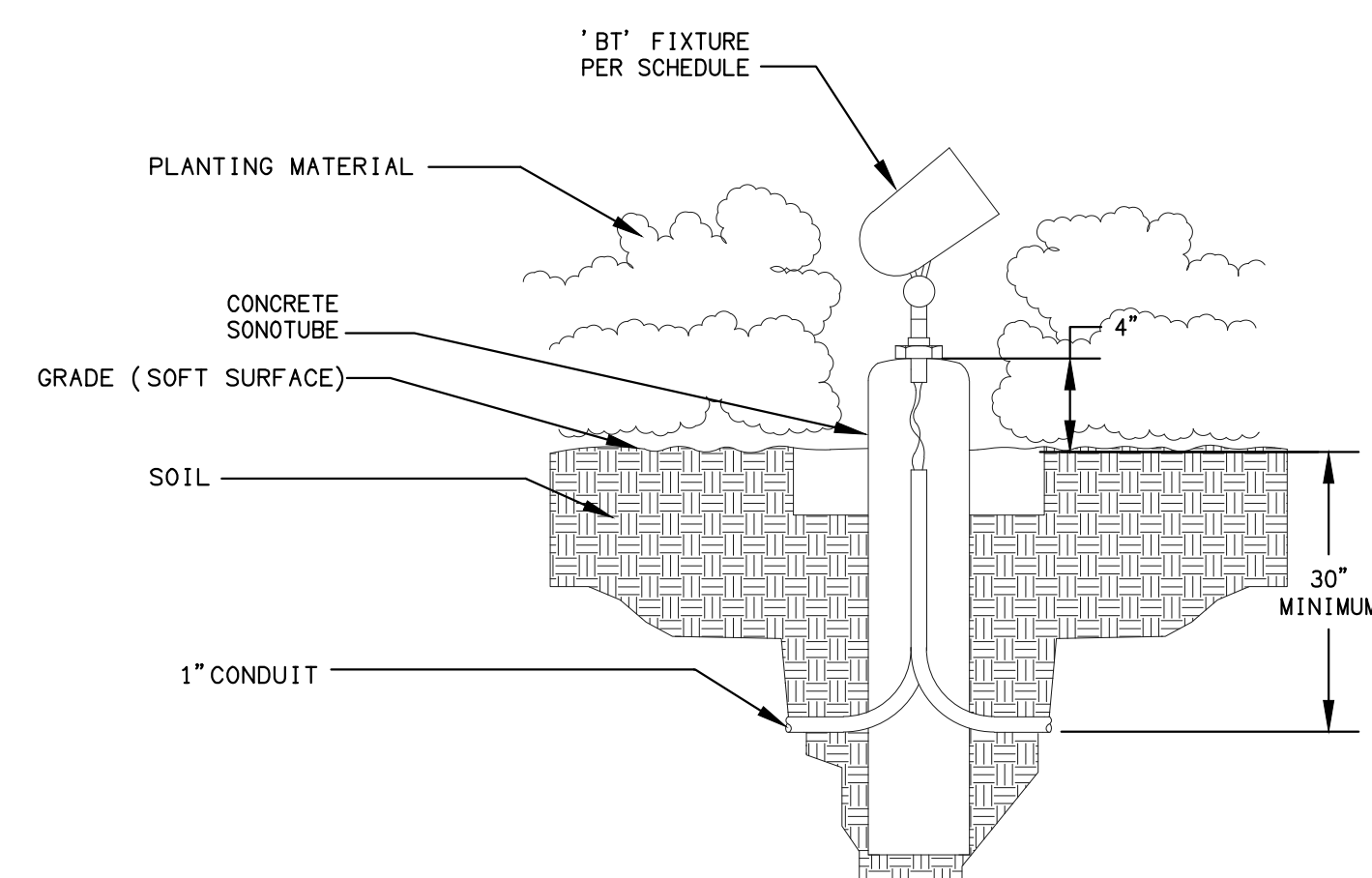
BS STEP DETAIL 1
SCALE: NONE E6.10



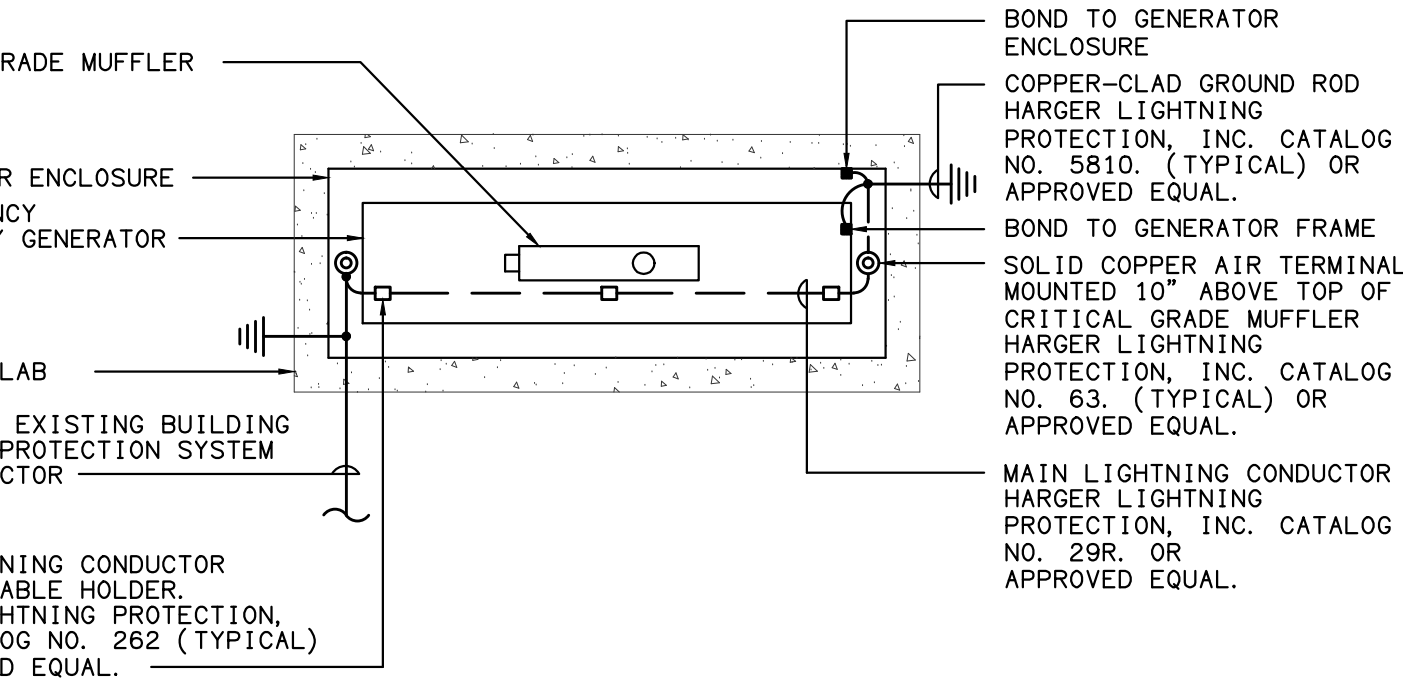
COMMUNICATION RACK TYPICAL SECTION 4
SCALE: NONE E6.10



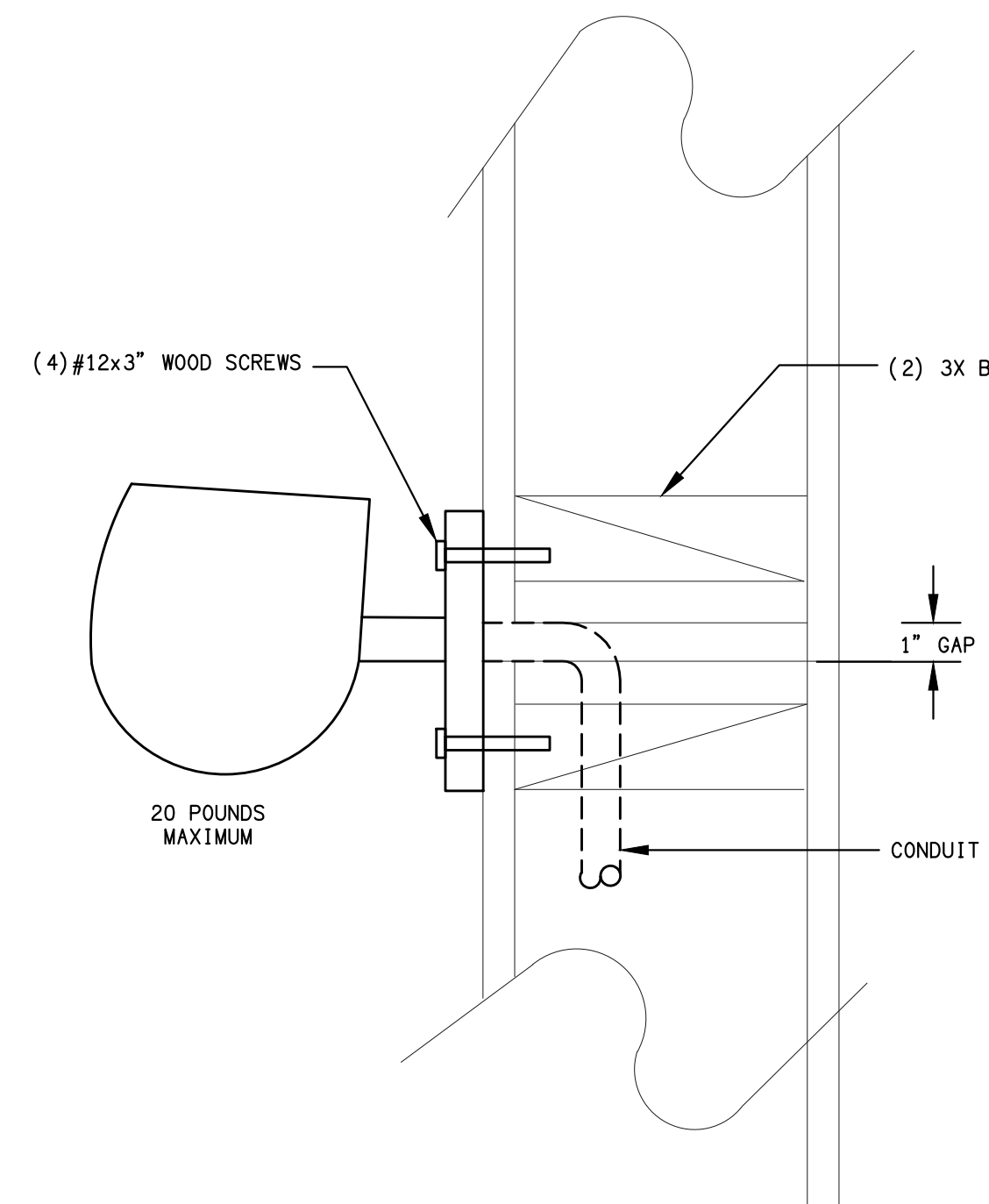
BB BOLLARD DETAIL 2
SCALE: NONE E6.10



BT TREE UPLIGHT 5
(SOFT SURFACE) SCALE: NONE E6.10

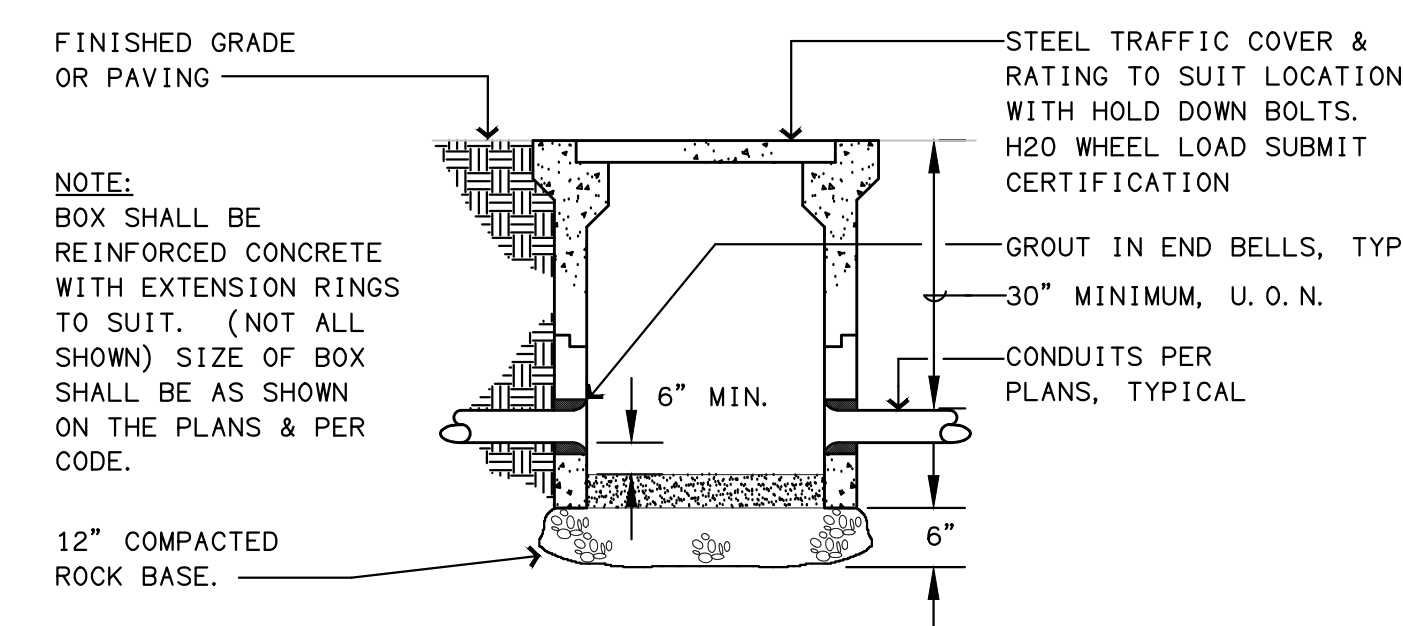


EMERGENCY STAND-BY GENERATOR PLAN LIGHTNING PROTECTION SYSTEM 7
SCALE: NONE E6.10

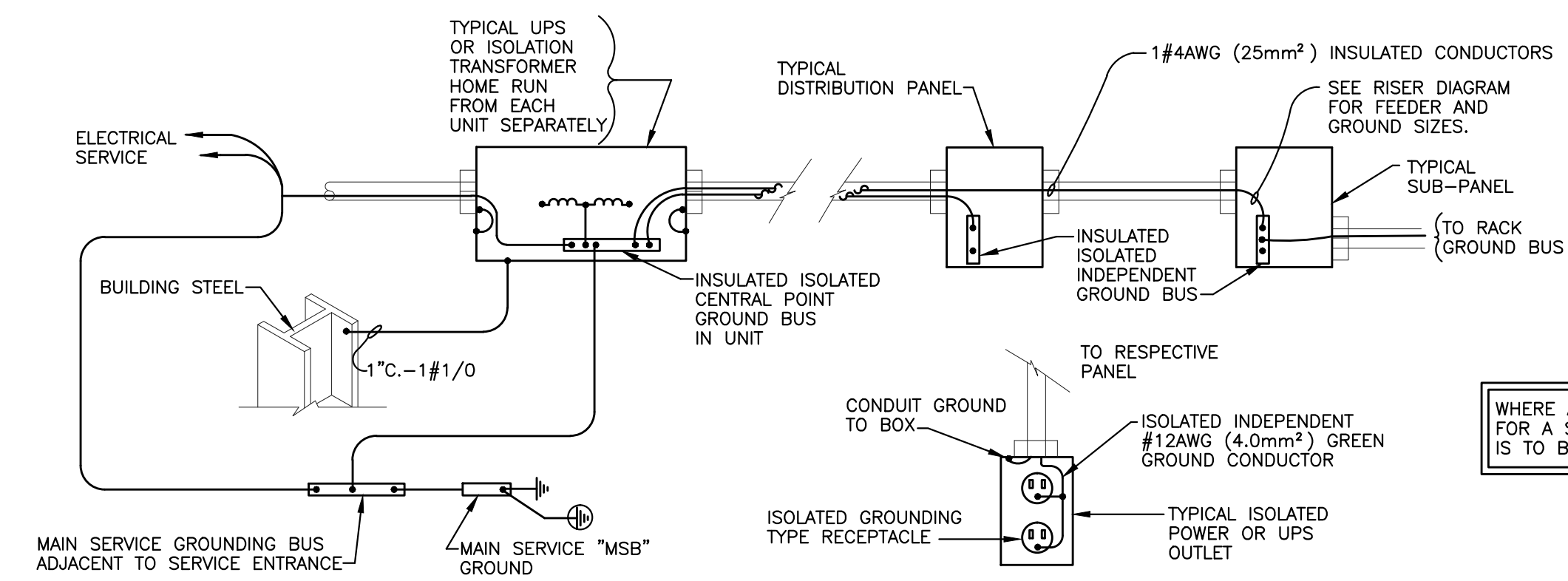


'BU' UPLIGHT 8
SCALE: NONE E6.10

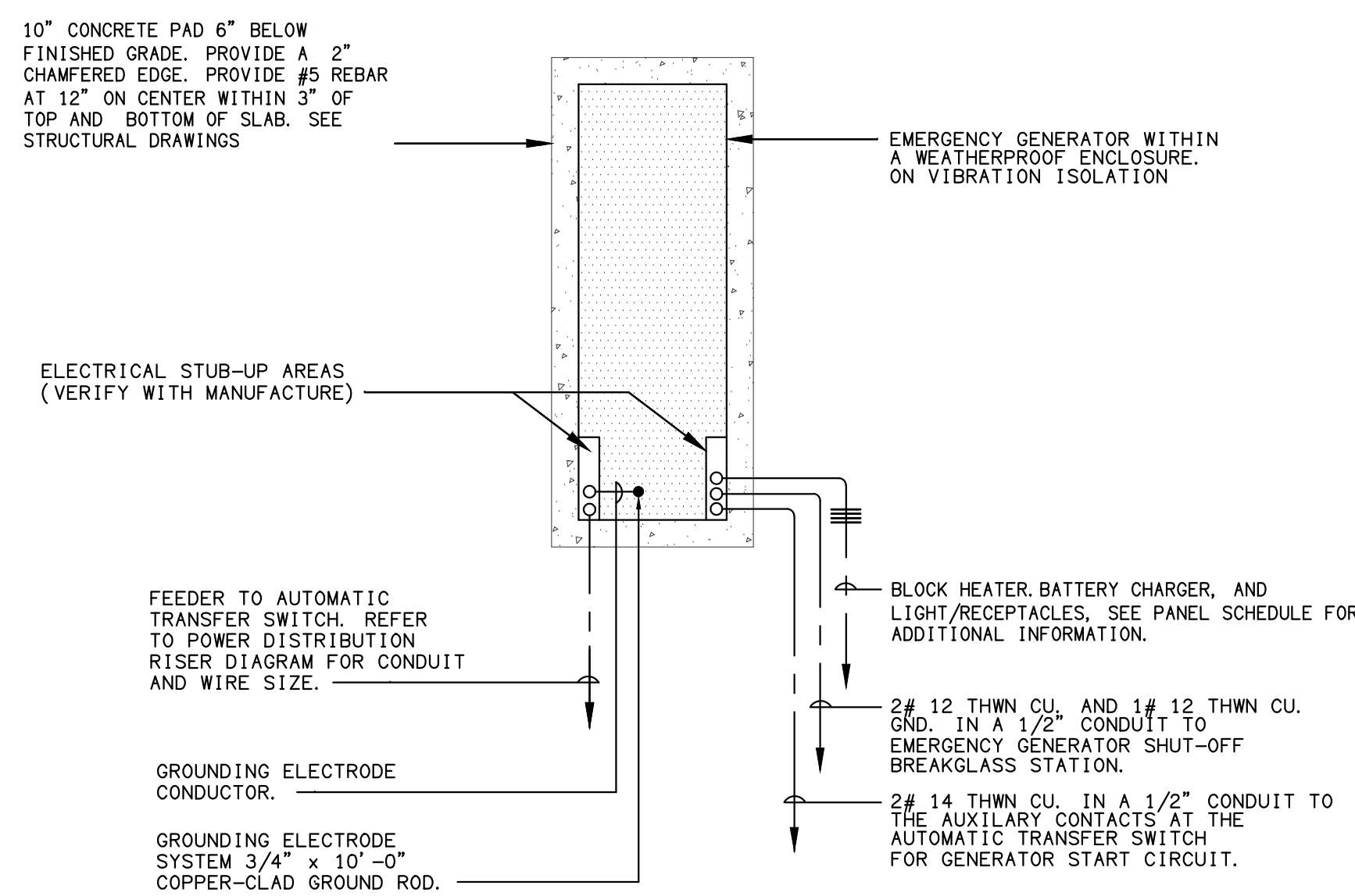
- DETAIL NOTES:**
1. BOX SHALL BE REINFORCED CONCRETE WITH EXTENSION RINGS TO SUIT. (NOT ALL SHOWN) SIZE OF BOX SHALL BE AS SHOWN ON THE PLANS & PER CODE.



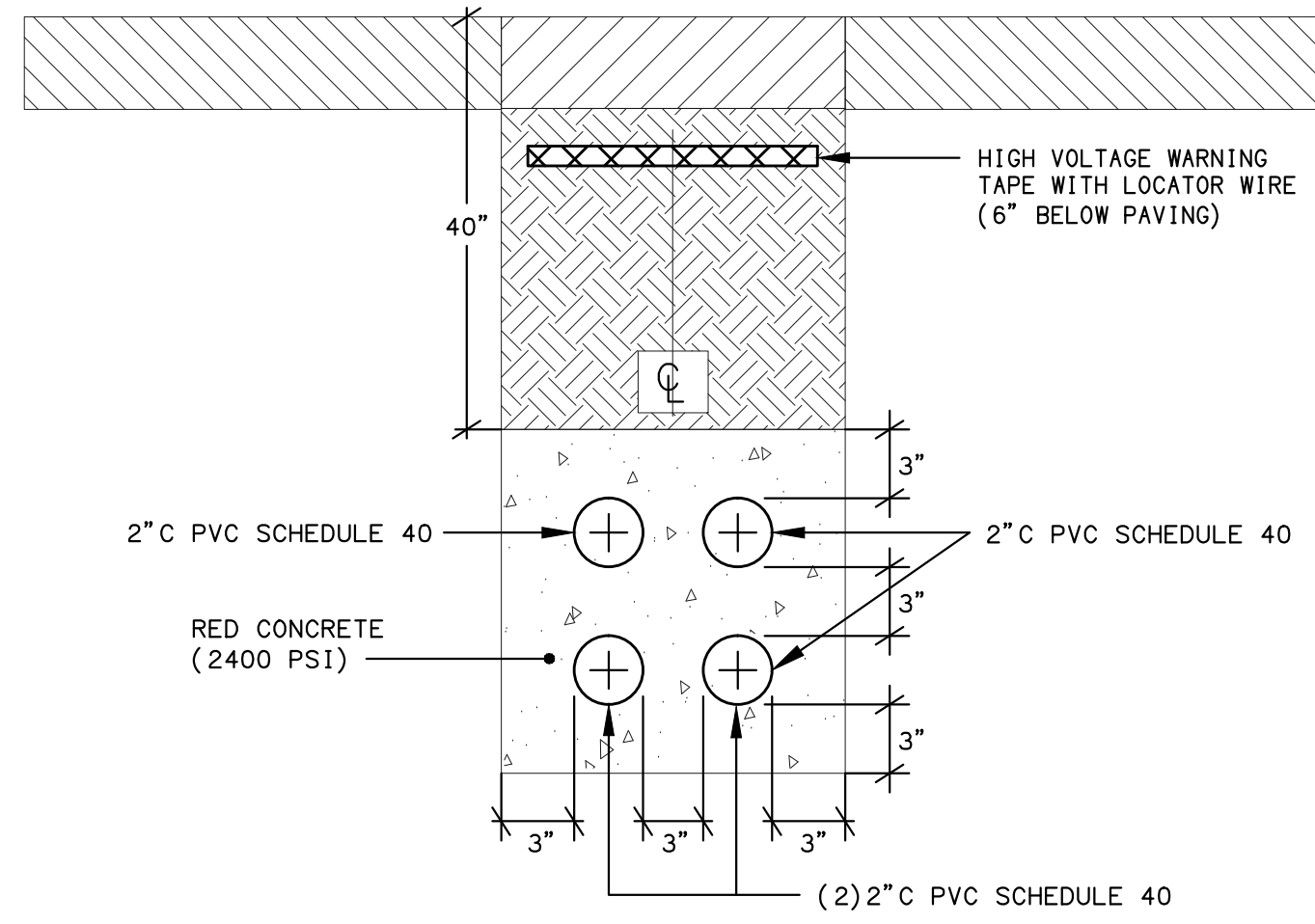
TYPICAL CONCRETE PULLBOX 6
SCALE: NONE E6.10



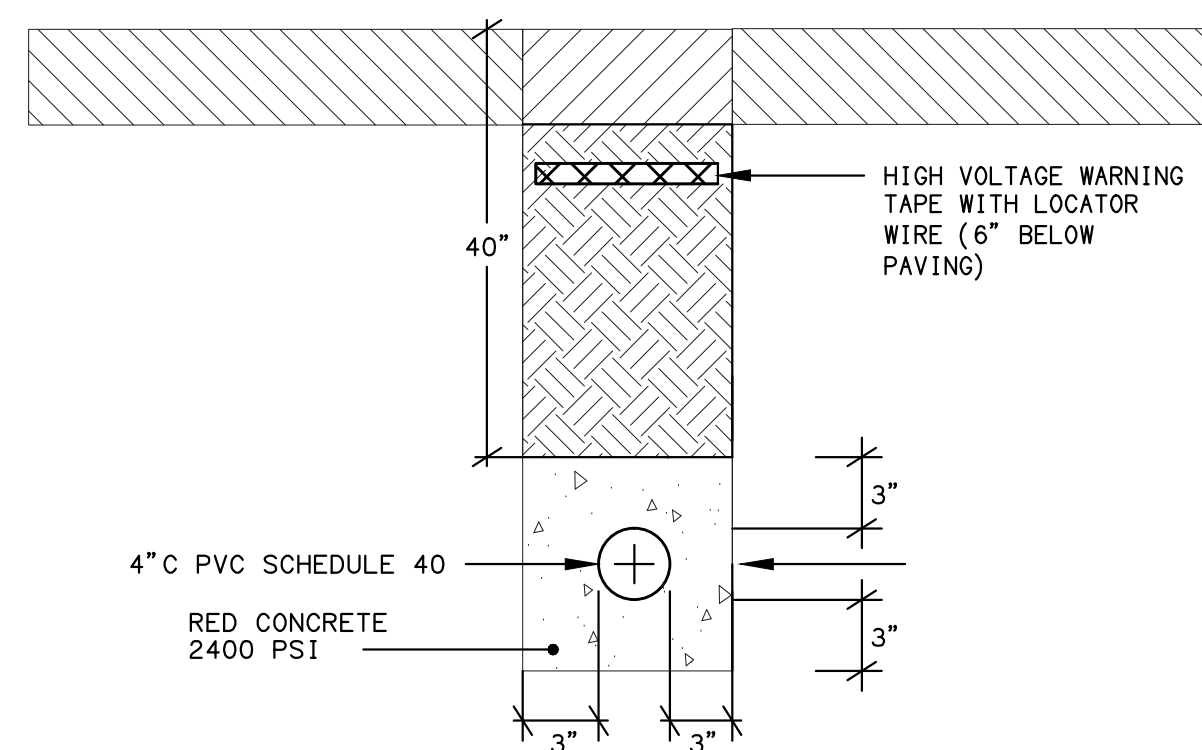
ISOLATION TRANSFORMER GROUNDING SYSTEM WIRING DIAGRAM 3
SCALE: NONE E6.10



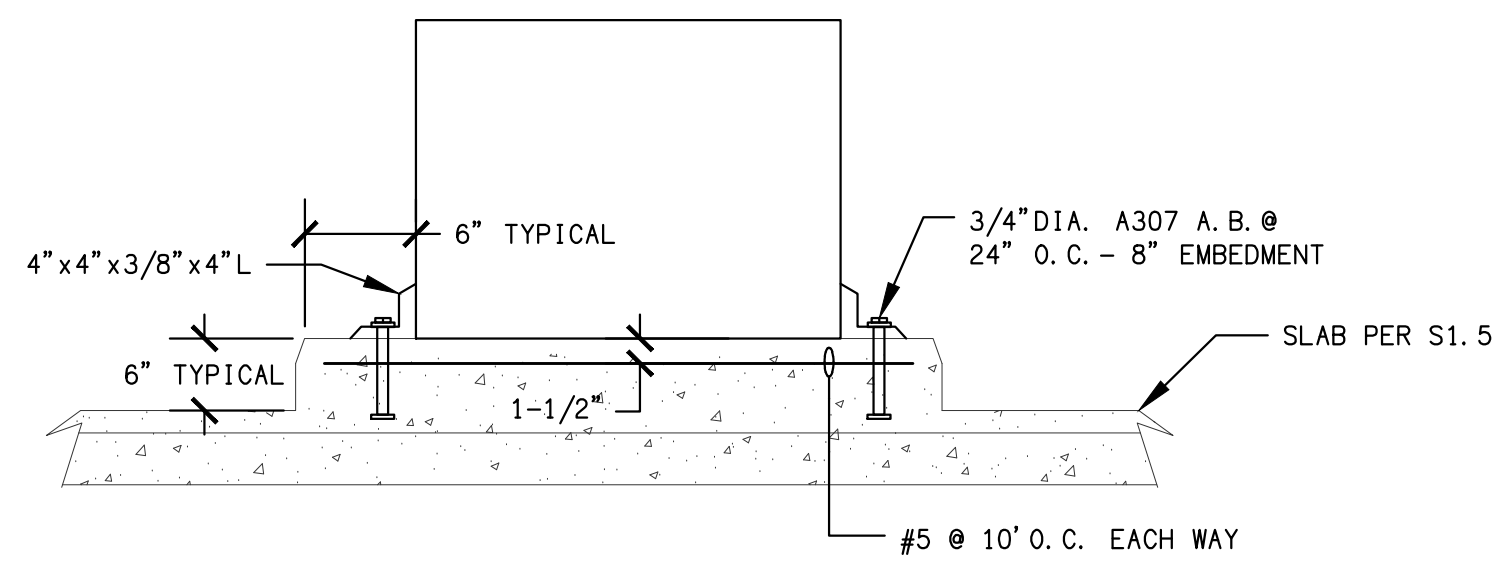
EMERGENCY GENERATOR PARTIAL SITE PLAN 9
SCALE: NONE E6.10



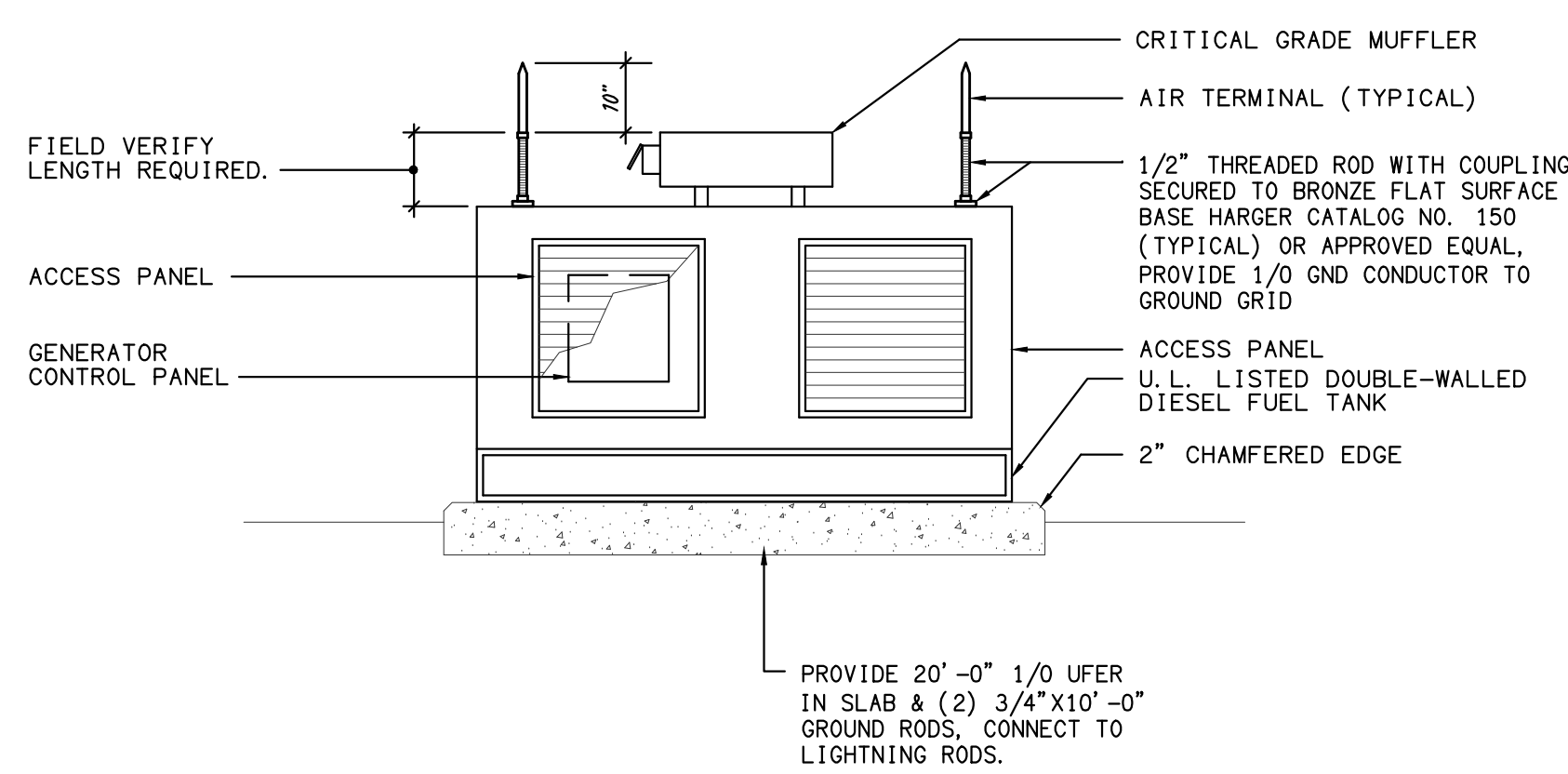
COM DUCTBANK SECTION 6
SCALE: NONE E6.1



5KV DUCTBANK SECTION 5
SCALE: NONE E6.1



GENERATOR - 50" W x 110" H x 140" LONG, 4500 LB.



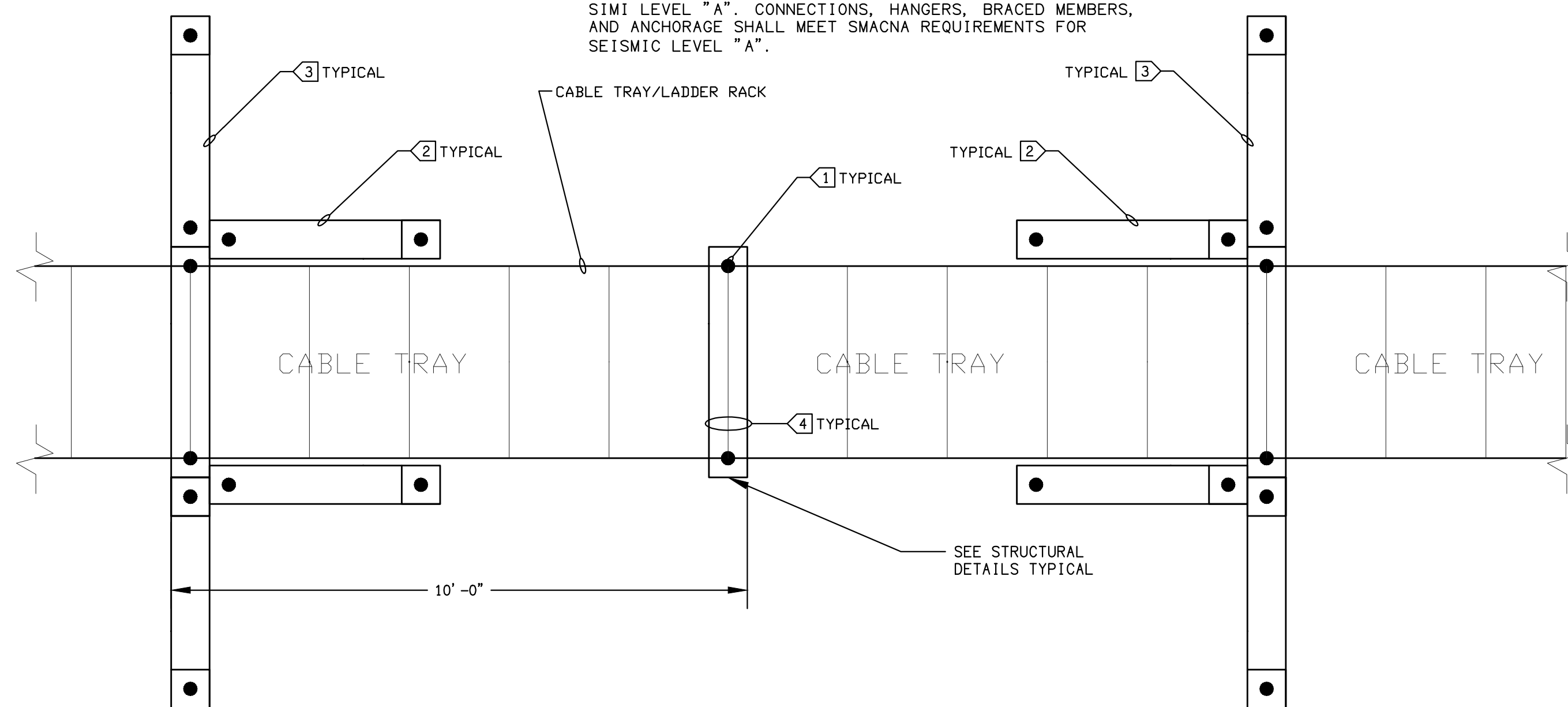
EMERGENCY STAND-BY GENERATOR ELEVATION 3
SCALE: NONE E6.1

SEE SHEET E6.0 DETAIL 2 FOR MORE INFORMATION

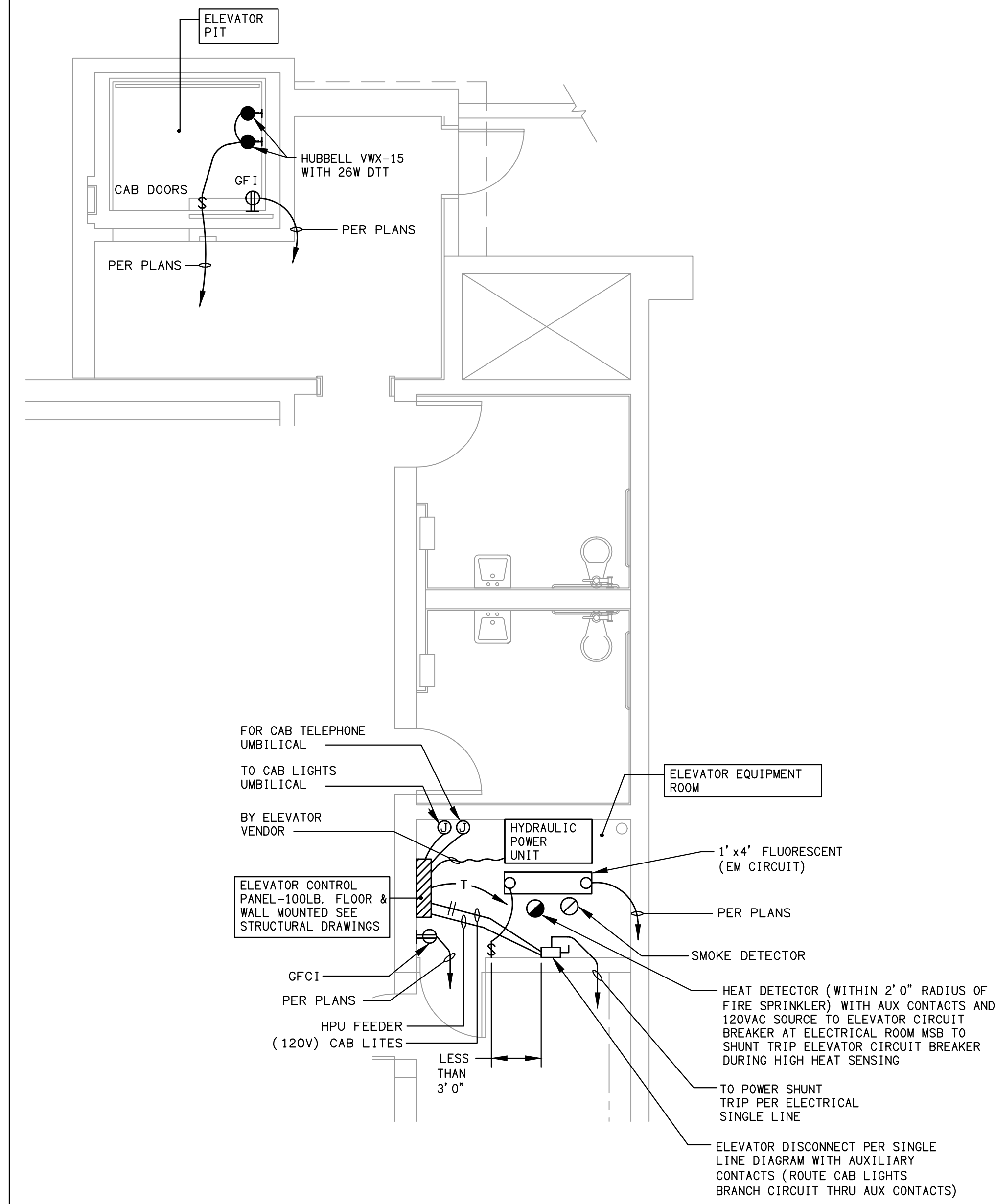
KEY NOTES:

- 1 3/8" DIAMETER ROD PROVIDE AT 10' - 0" INTERVALS OR AS SPECIFIED BY MANUFACTURER.
- 2 LONGITUDINAL CHANNEL BRACING WITH 90 DEGREE ANGLE FITTING. PROVIDE AT MAXIMUM 20' - 0" INTERVALS OR AS SPECIFIED BY MANUFACTURER.
- 3 TRANSVERSE SEISMIC CHANNEL BRACING WITH HINGED SEISMIC BRACKET. PROVIDE AT MAXIMUM 20' - 0" INTERVALS OR AS SPECIFIED BY MANUFACTURER.
- 4 P2000 UNISTRUT OR EQUAL.

CABLE TRAY SHALL BE SEISMICALLY BRACED IN ACCORDANCE WITH GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEM & PUMPING PIPE SYSTEMS PUBLISHED BY SWACNA FOR SIMI LEVEL "A". CONNECTIONS, HANGERS, BRACED MEMBERS, AND ANCHORAGE SHALL MEET SWACNA REQUIREMENTS FOR SEISMIC LEVEL "A".



CABLE TRAY SEISMIC BRACING PLAN VIEW 2
SCALE: NONE E6.1



TYPICAL ELEVATOR ROOM DETAIL 1
SCALE: NONE E6.1



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NO.	REVISION	DATE

cad by: _____ chkd by: _____

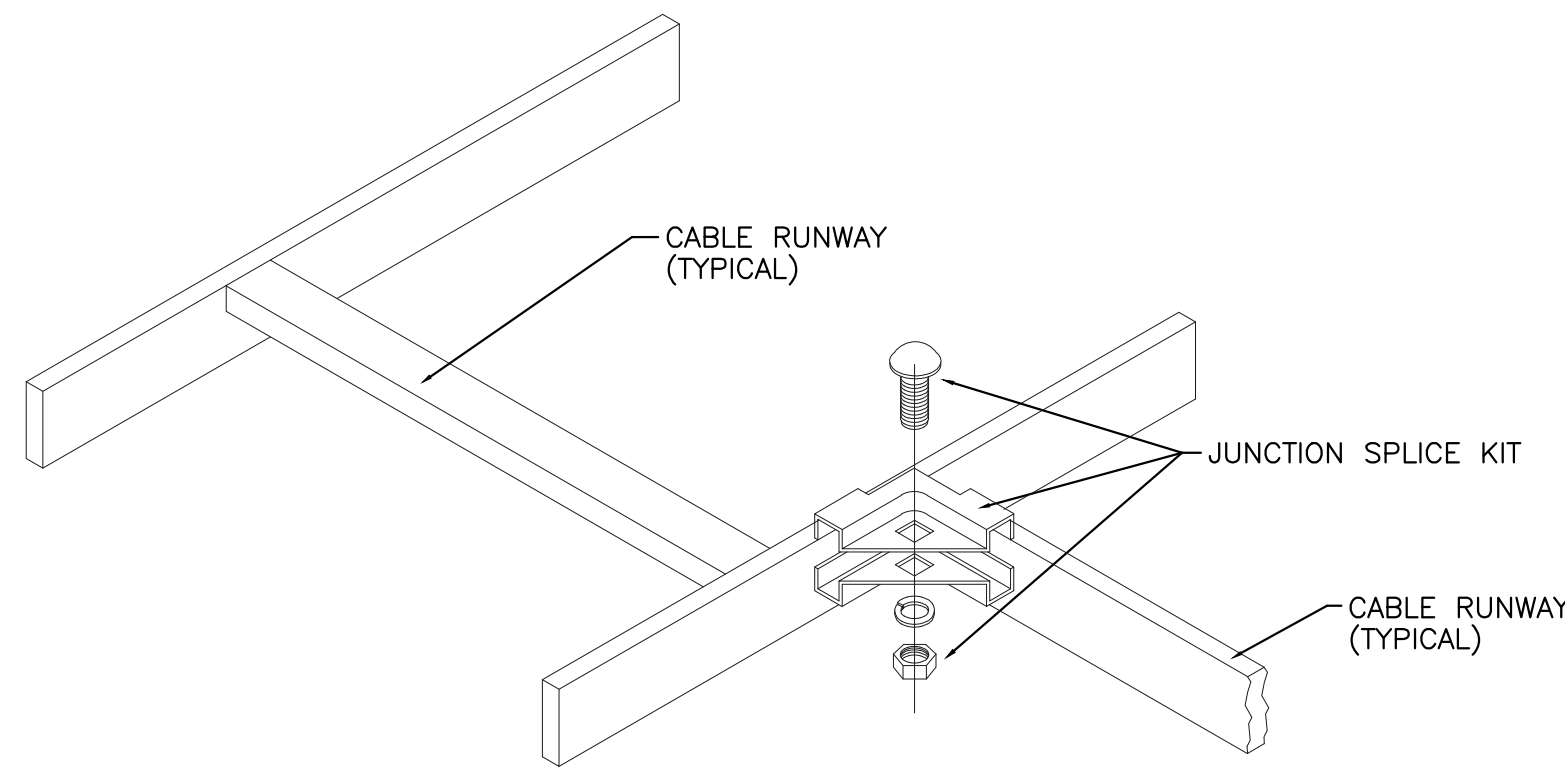
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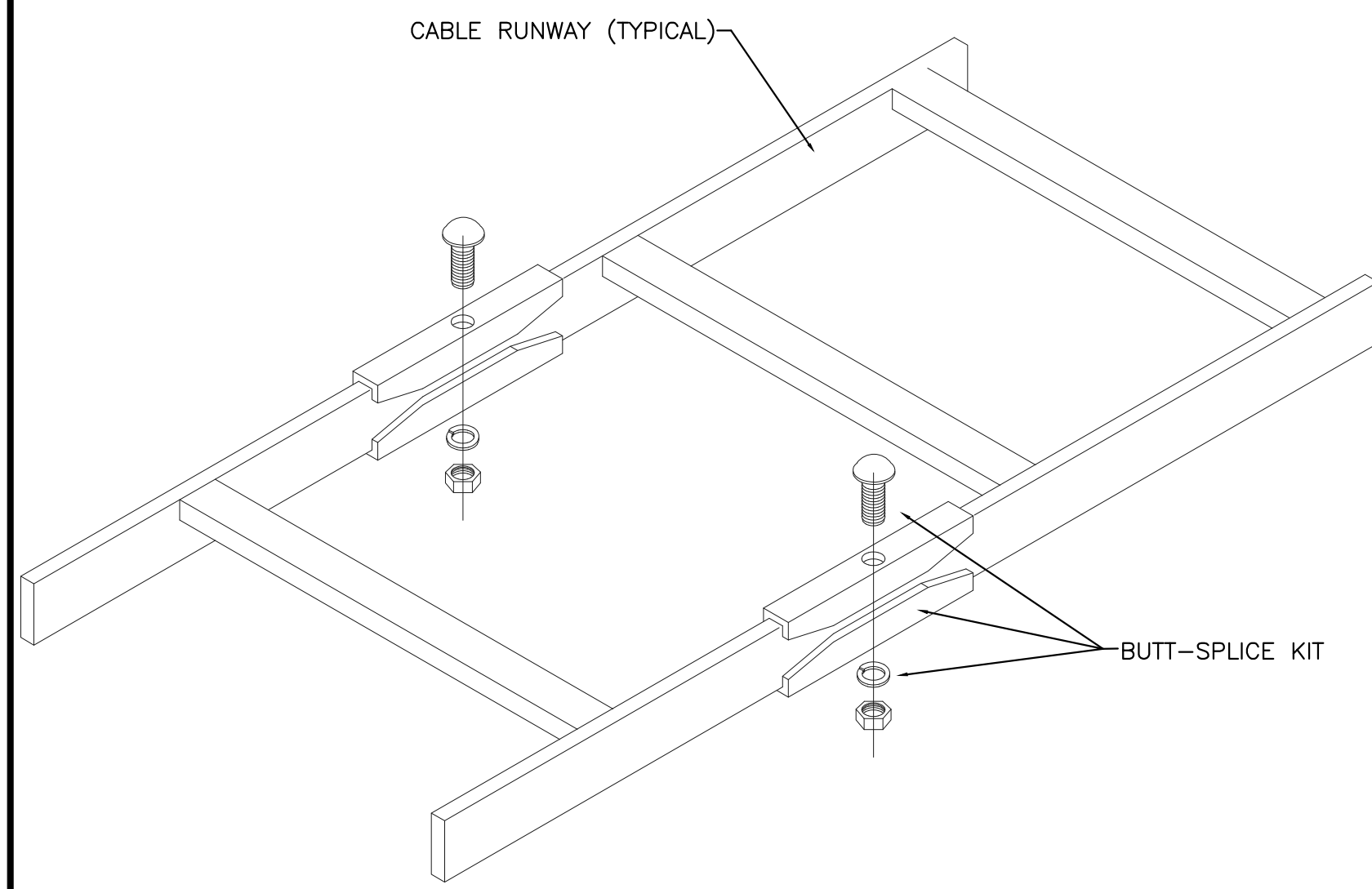
ELECTRICAL

DETAILS

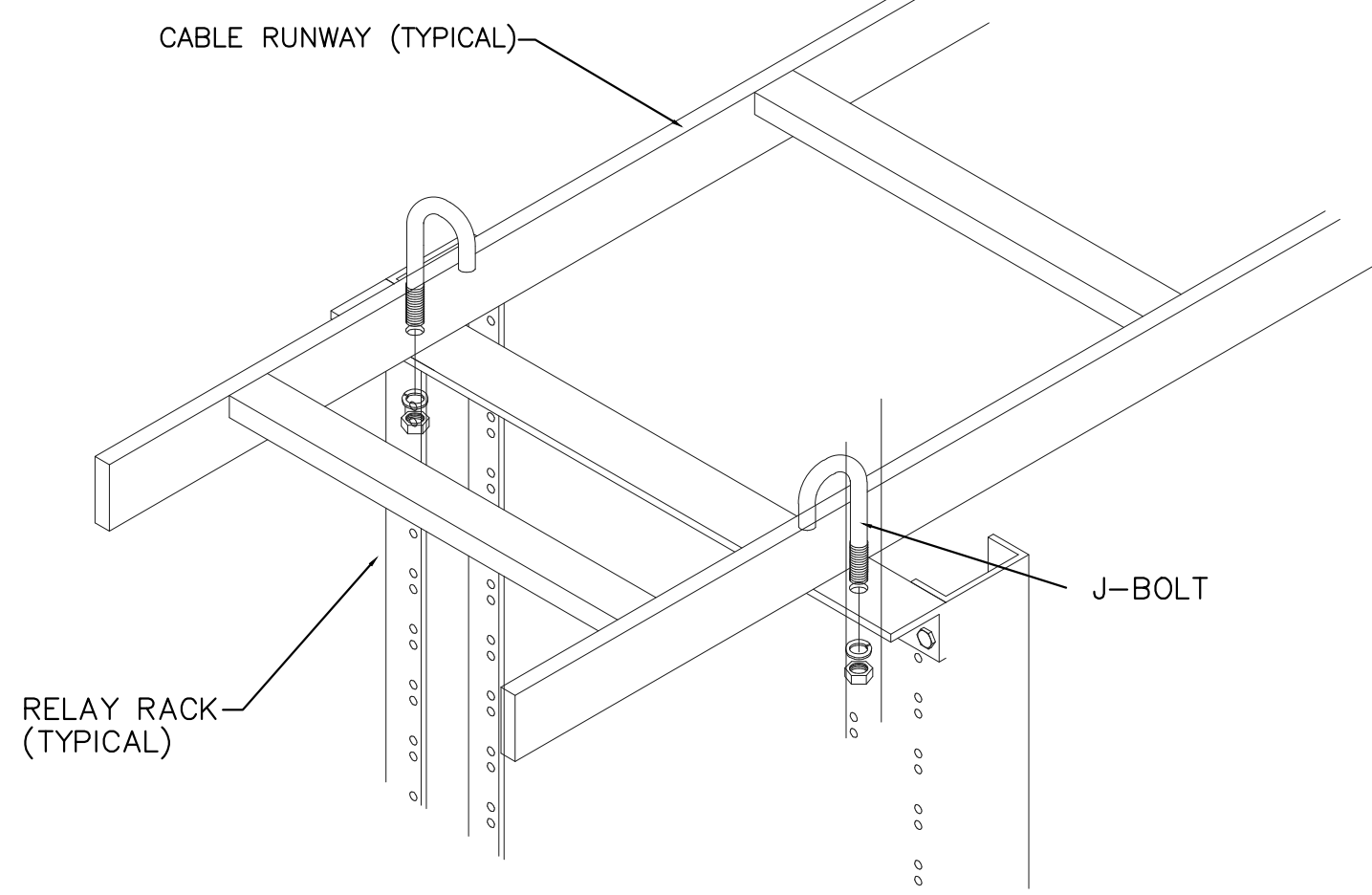
E6.1



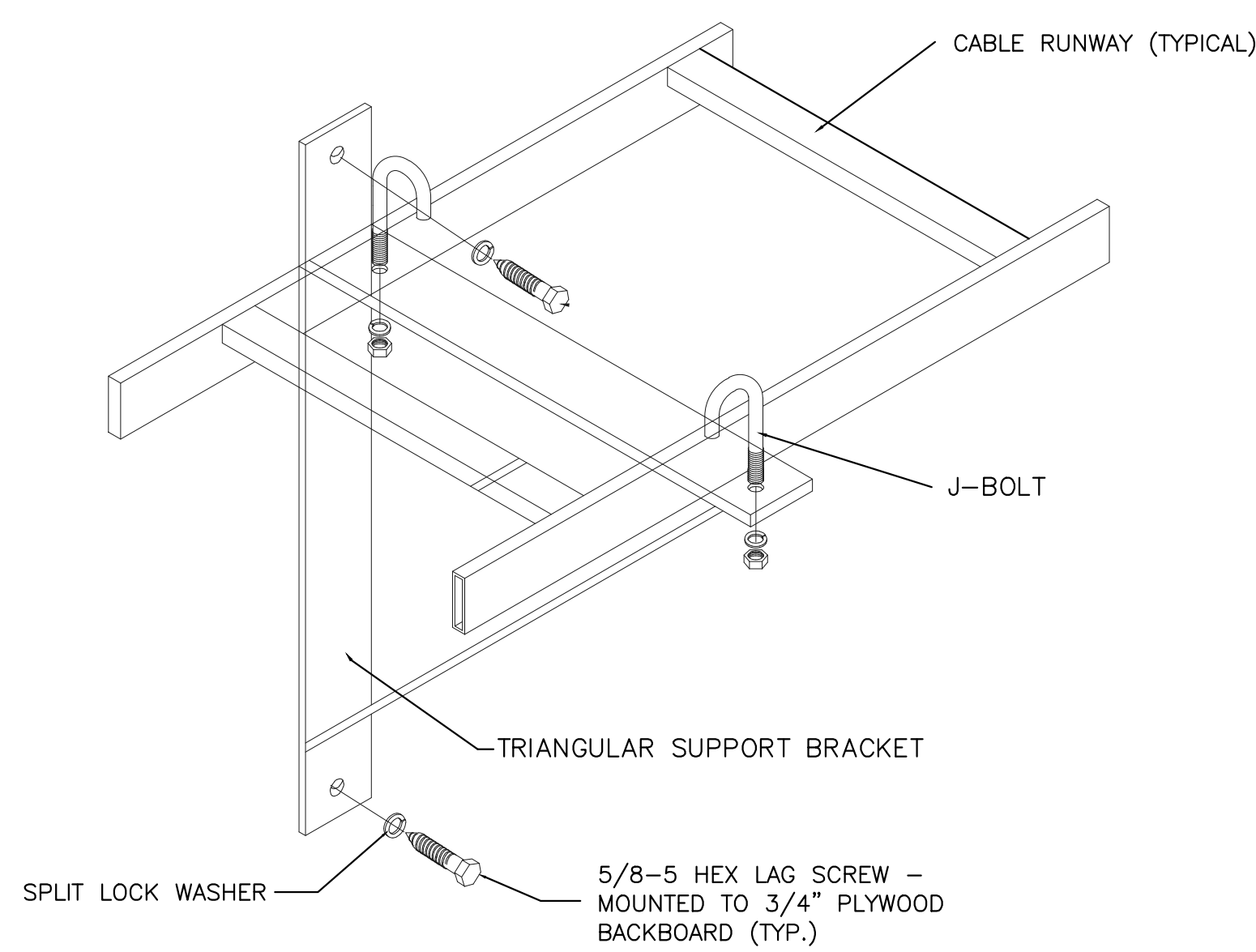
CABLE RUNWAY JUNCTION SPLICE ①



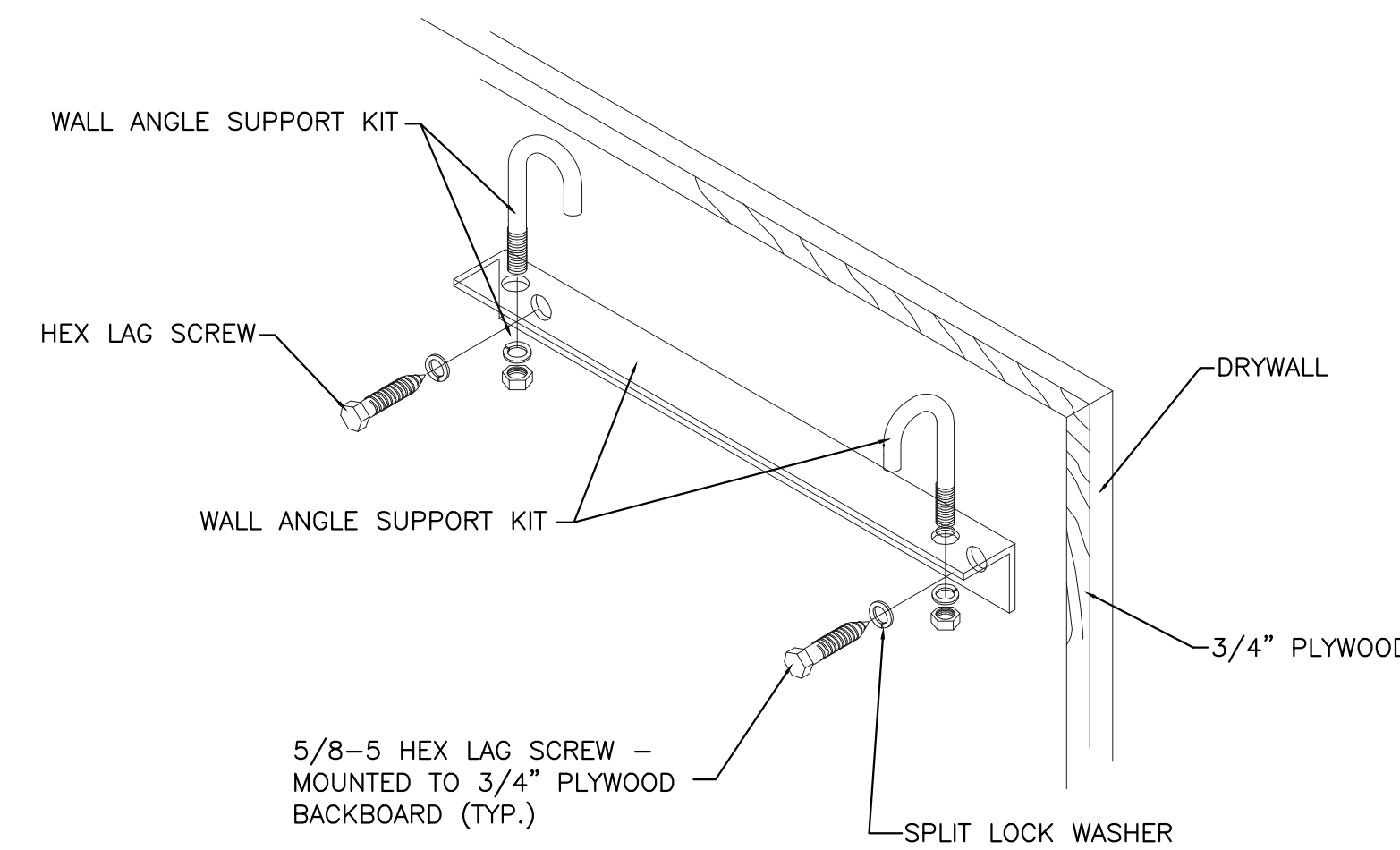
CABLE RUNWAY SECTION SPLICE ②



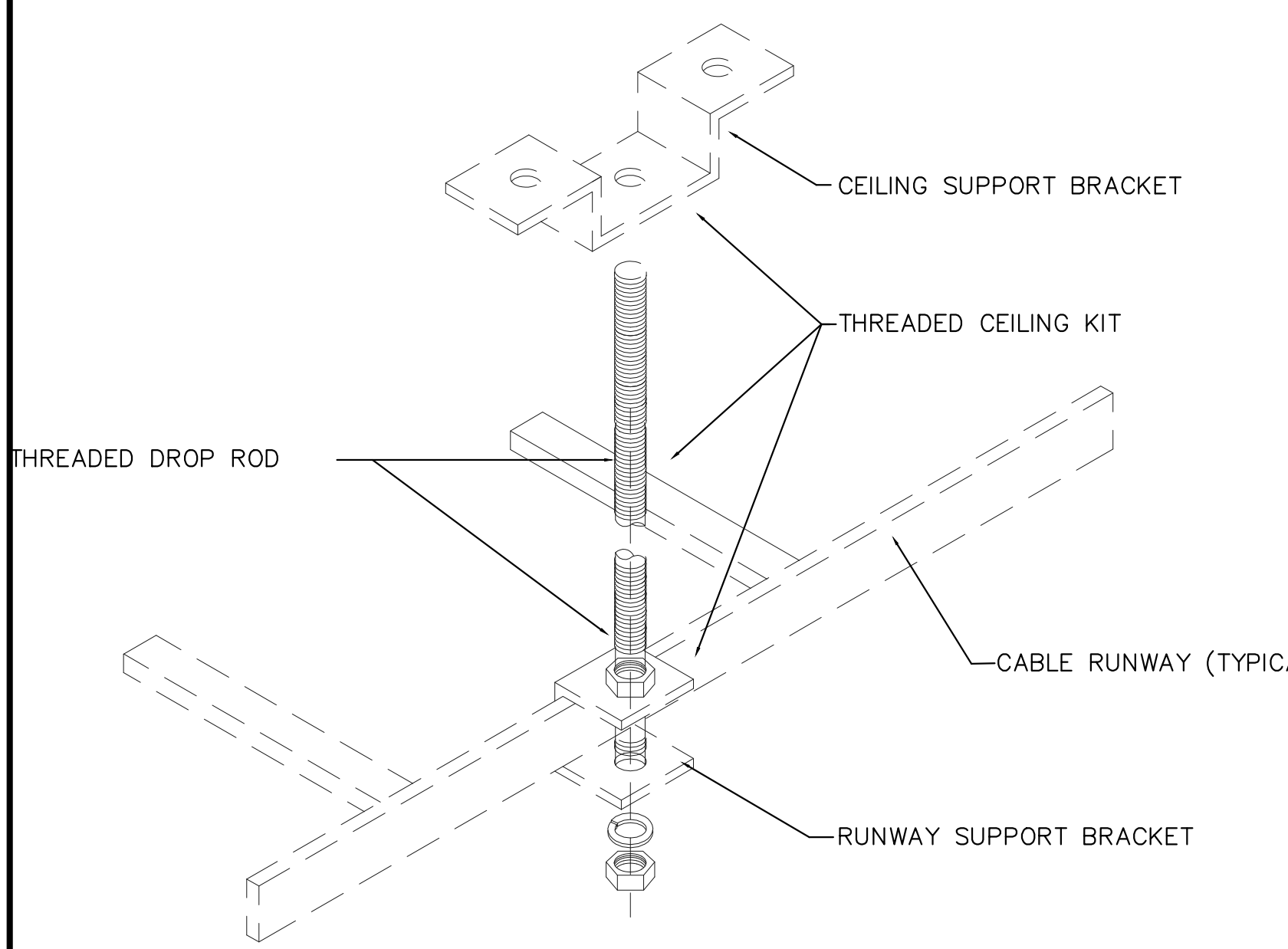
RACK TO CABLE RUNWAY MOUNT DETAIL ③



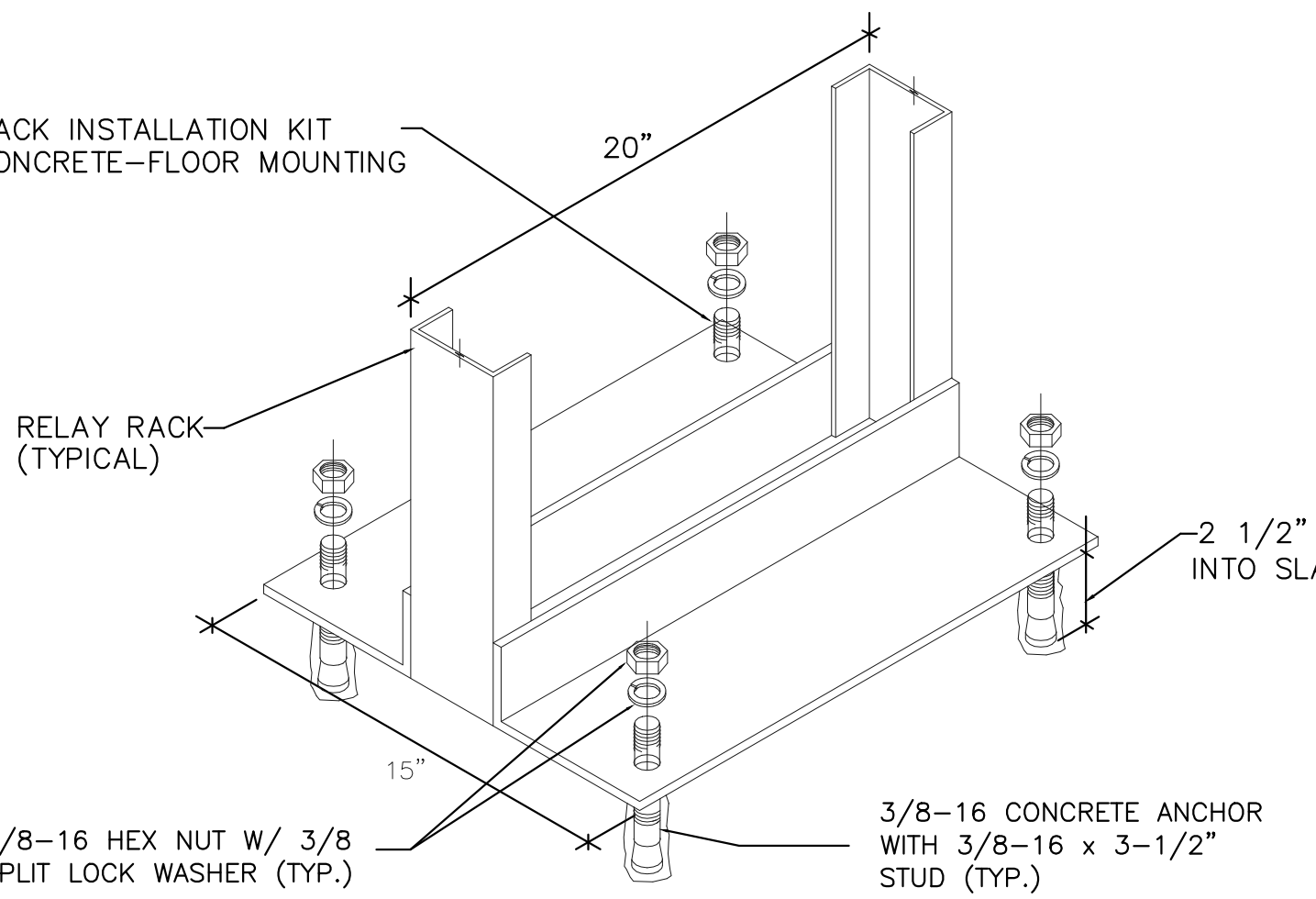
CABLE RUNWAY WALL BRACKET DETAIL ④



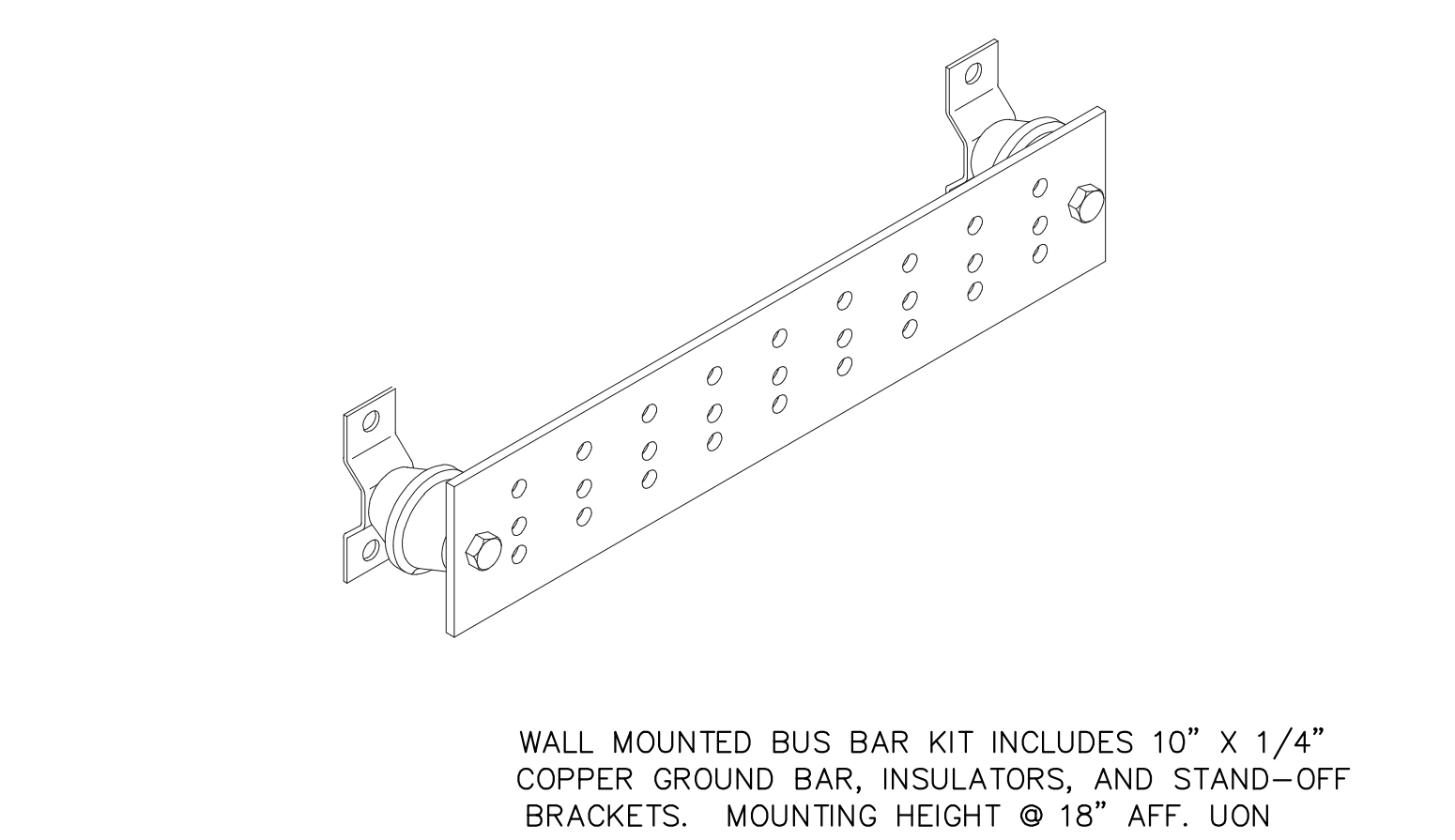
CABLE RUNWAY WALL ANGLE SUPPORT DETAIL ⑤



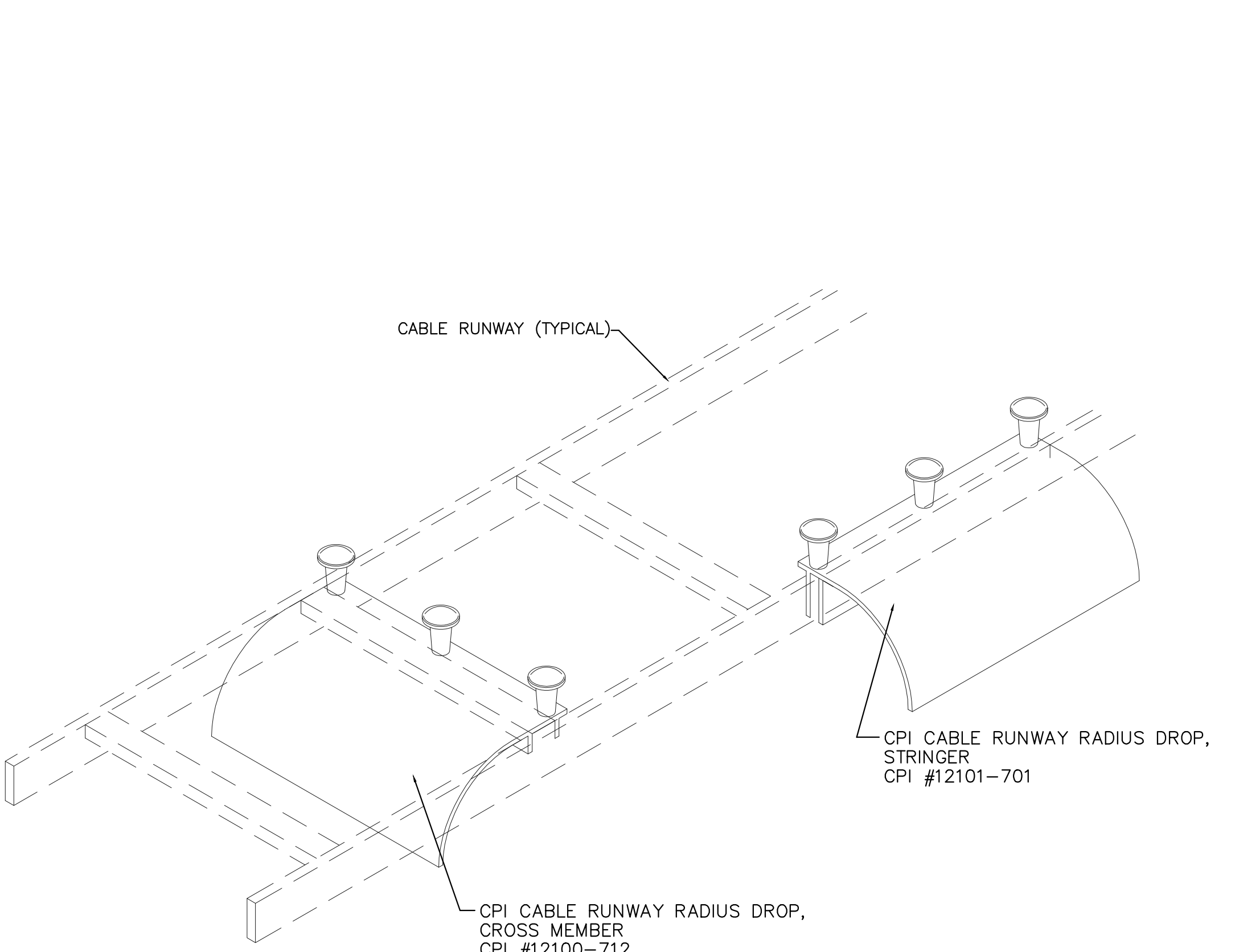
CABLE RUNWAY BRACING DETAIL ⑥



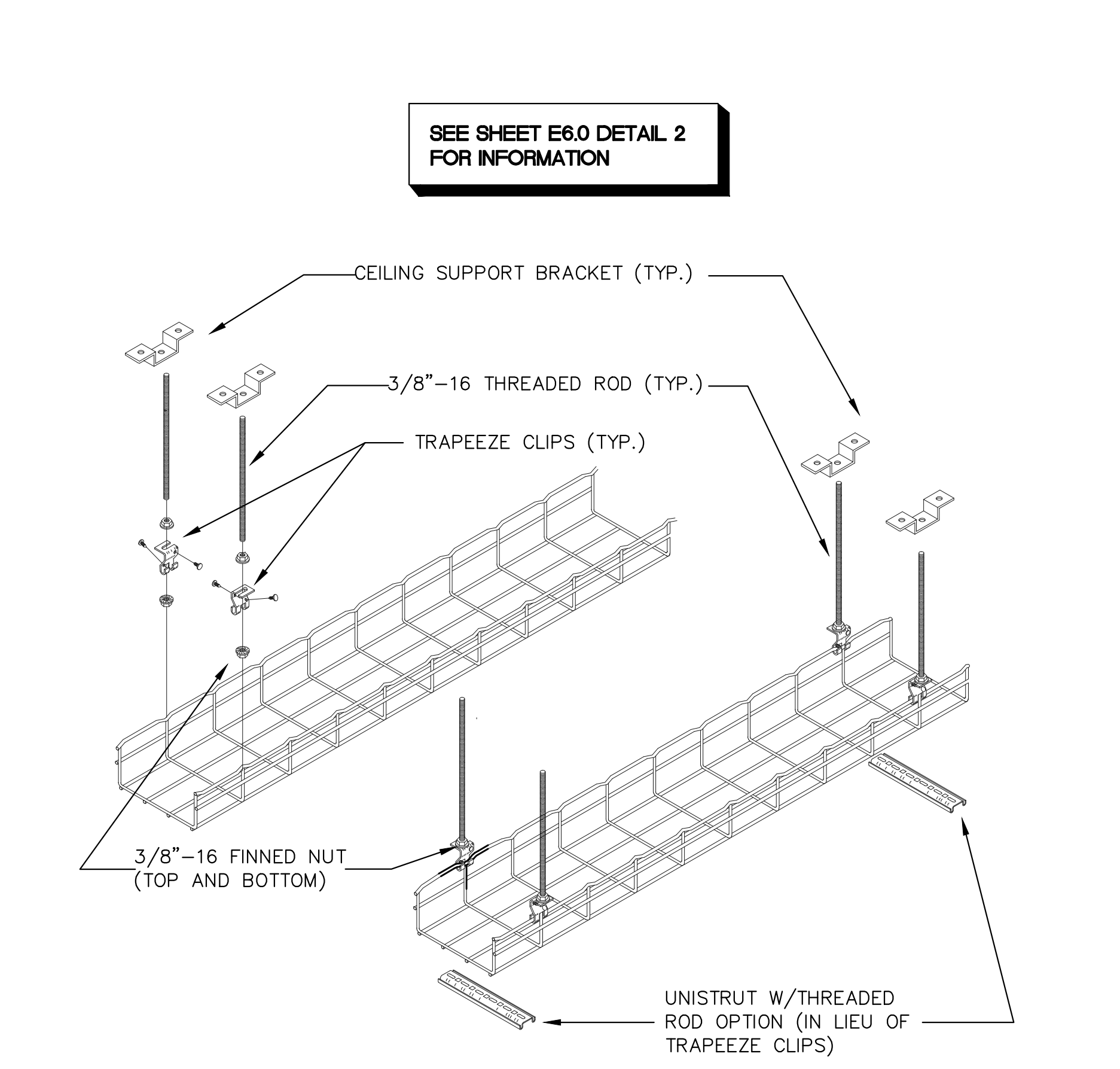
EQUIPMENT RACK MOUNTING DETAIL ⑦



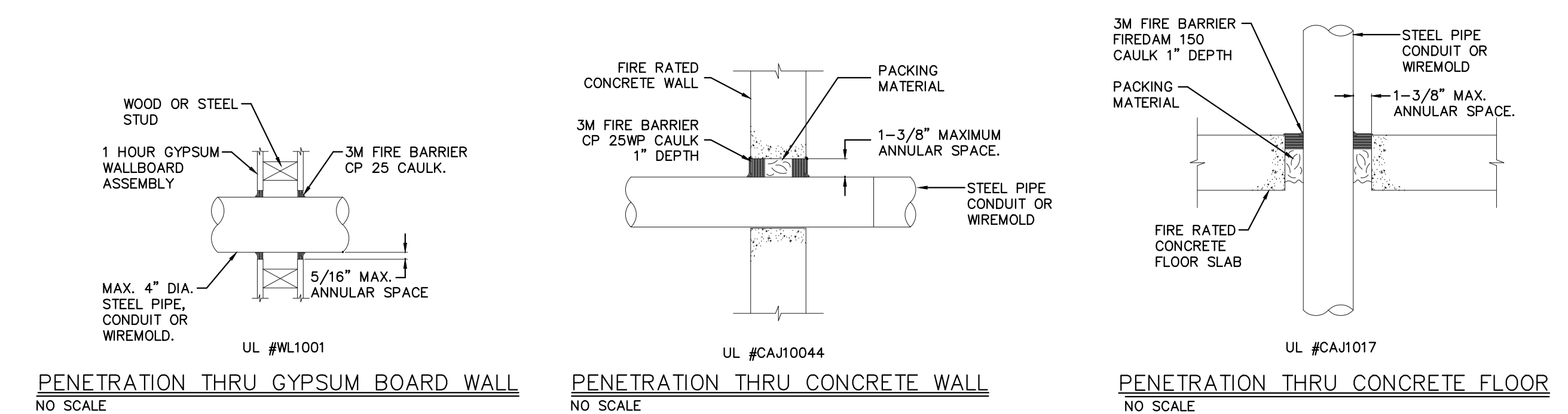
COMM. ROOM GROUNDING BUSBAR DETAIL ⑧



CABLE RUNWAY DROP-OUT DETAIL ⑨



ABOVE CEILING CABLE TRAY DETAIL (TYP.) ⑩



SEE SHEET E6.0 DETAIL 2 FOR INFORMATION

PENETRATION THRU GYPSUM BOARD WALL
NO SCALE
UL #M1001

PENETRATION THRU CONCRETE WALL
NO SCALE
UL #CAJ10044

PENETRATION THRU CONCRETE FLOOR
NO SCALE
UL #CAJ1017

SYSTEM NO. W11001 (FORMERLY SYSTEM NO. 147)
F RATINGS - 1, 2, 3, AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS - 0, 1, 2, 3, AND 4 HR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT (SEE ITEM 3)
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT (SEE ITEM 3)

- WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALL BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX. 2 HR FIRE RATED ASSEMBLY) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED IN 18 IN. OC WITH NOM 2 BY 4 IN. LUMBER AND PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-8/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
 - WALLBOARD, GYPSUM - NOM 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD RYPS, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 13-1/2 IN.
- PIPE OR CONDUIT - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HAVIER) STEEL PIPE NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALIC TUBING OR TYPE L OR (OR HAVIER) COPPER TUBING NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT - WHEN COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM STRUCTURED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
- FILL, VOID OR CAVITY MATERIAL - CAULK - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNUAL SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4 IN. DIAM SPACE OF CHALK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGREES FROM THE WALL. CHALK, INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULEATED BELOW:

MAX PIPE OR CONDUIT DIAM, IN	ANNUAL SPACE, IN	F RATING, HR	T RATING, HR
1	0 TO 3/16	1 OR 2	0 + 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

+ WHEN COPPER PIPE IS USED, T RATING IS 0 NOM. MINNESOTA MINING & MFG. CO. - TYPES CP-25 S/L, CP-25 W/B, CP-25 WS, CP-25 WS + (NOTE: L RATINGS APPLY WHEN TYPE CP-25 WS+ CAULK IS USED.)

FIRE RATED PENETRATIONS ⑪



DAVID BURY & COMPANY ARCHITECTS LTD.

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project:
Ventura College Theater, Bldg G Modernization

4667 Telegraph Rd.
Ventura, CA 93003

client:
Ventura County Community College District

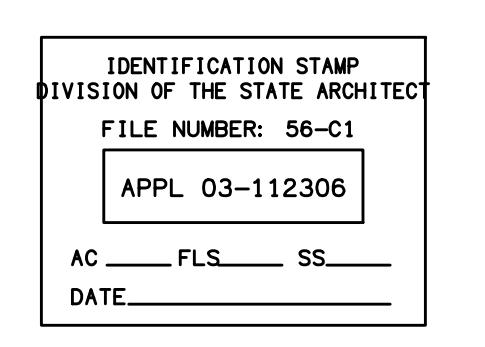
255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LD&S ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3000 COSTA MESA BLVD.
COSTA MESA, CA 92626-8004
(714) 999-6210 FAX (714) 999-6219
Web Site: <http://www.ldands.com>



dsa: 03-112306



the original size of this drawing is 30" x 42"

Submissions / Revisions

NO.	DATE	DESCRIPTION

print date: 09/20/2010

sheet title:
CABLE TRAY MOUNTING DETAILS

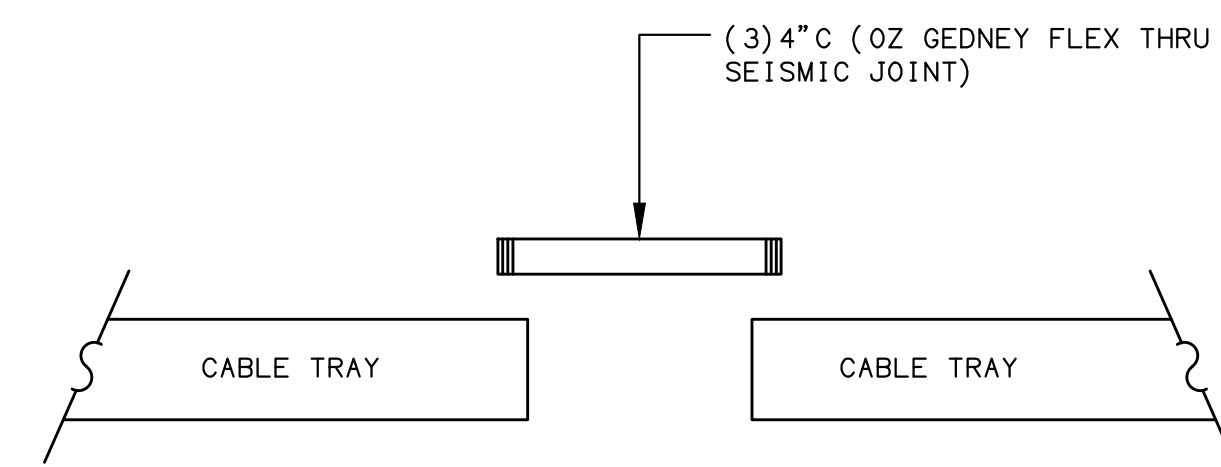
E6.2

KEY NOTES:

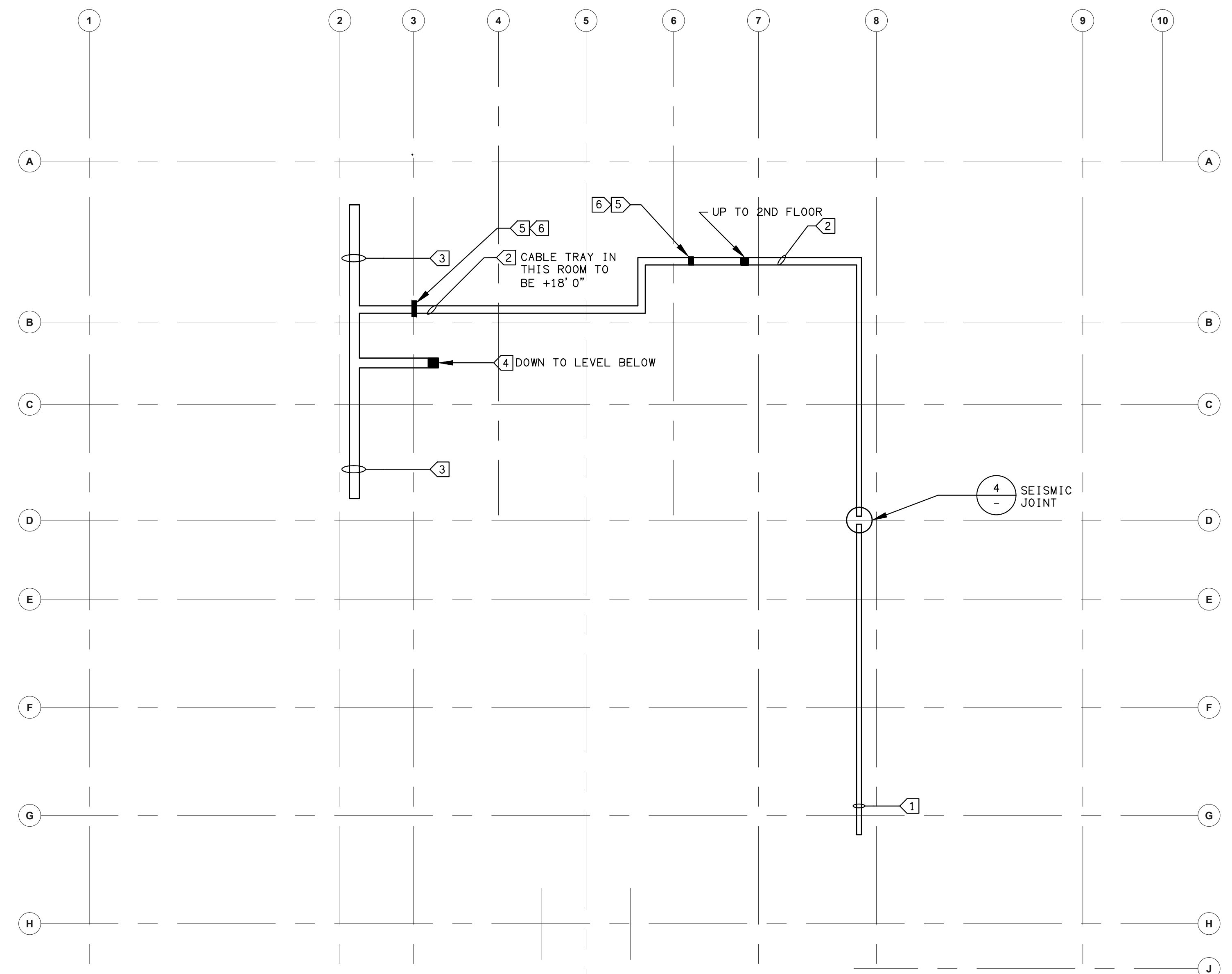
- ① 12" WIDE CABLE TRAY (4" DEEP).
- ② 18" WIDE CABLE TRAY (4" DEEP).
- ③ 24" WIDE CABLE TRAY (4" DEEP).
- ④ (6) 4" C DOWN TO COM ROOM CABLE TRAY.
- ⑤ (4) 4" C DOWN TO FIRST FLOOR CABLE TRAY.
- ⑥ 2 HOUR FIRE RATING.
- ⑦ (3) 4" C. SEE DETAIL 4 THIS SHEET.

SHEET NOTES:

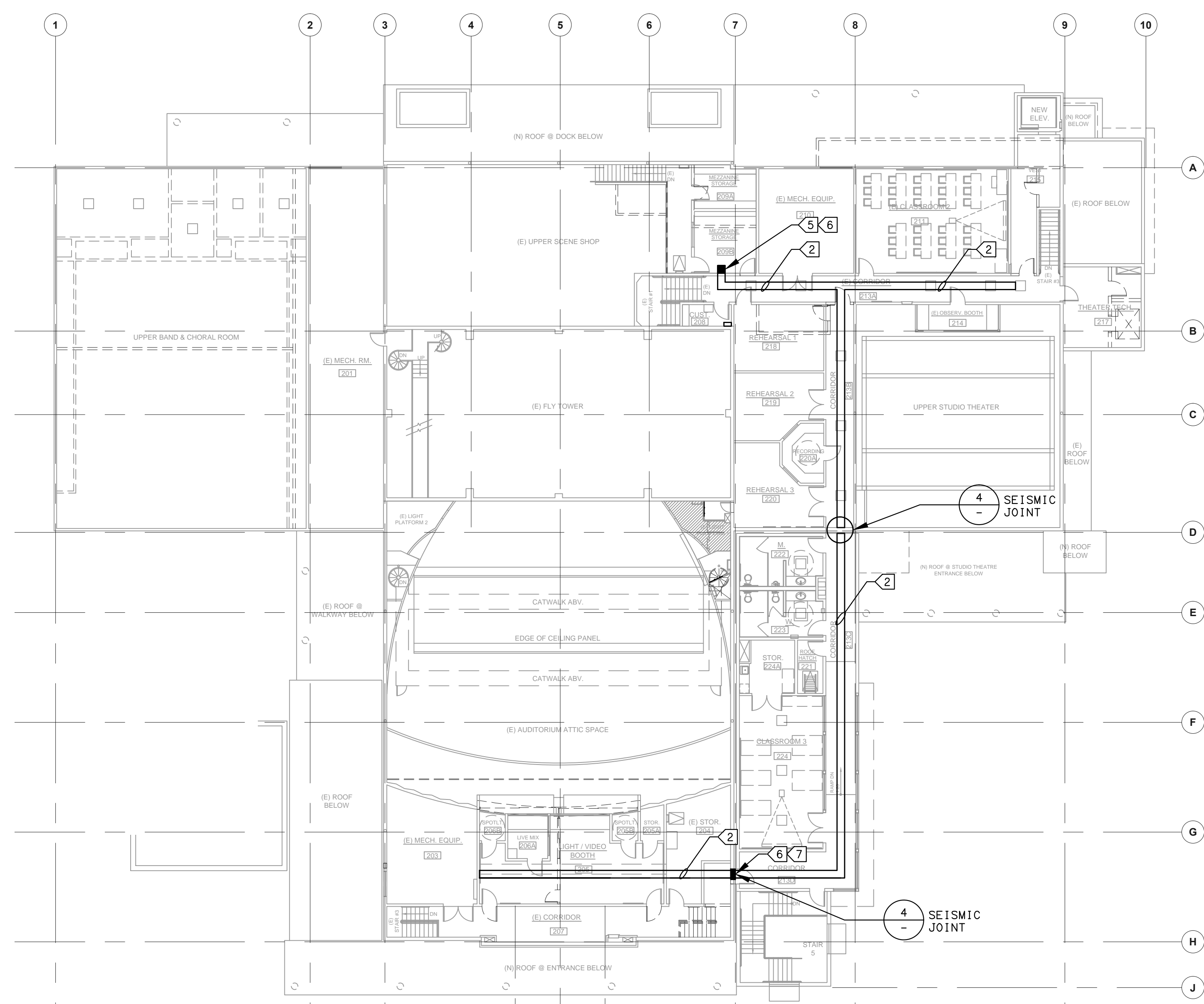
- 1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
- 2. CONTRACTOR TO INSURE THAT MICROWAVE DISH ON ROOF CONTINUES TO OPERATE PROPERLY DURING CONSTRUCTION.
- 3. CABLE TRAY TO BE INSTALLED ABOVE CEILING TILES AND ACCESSIBLE.



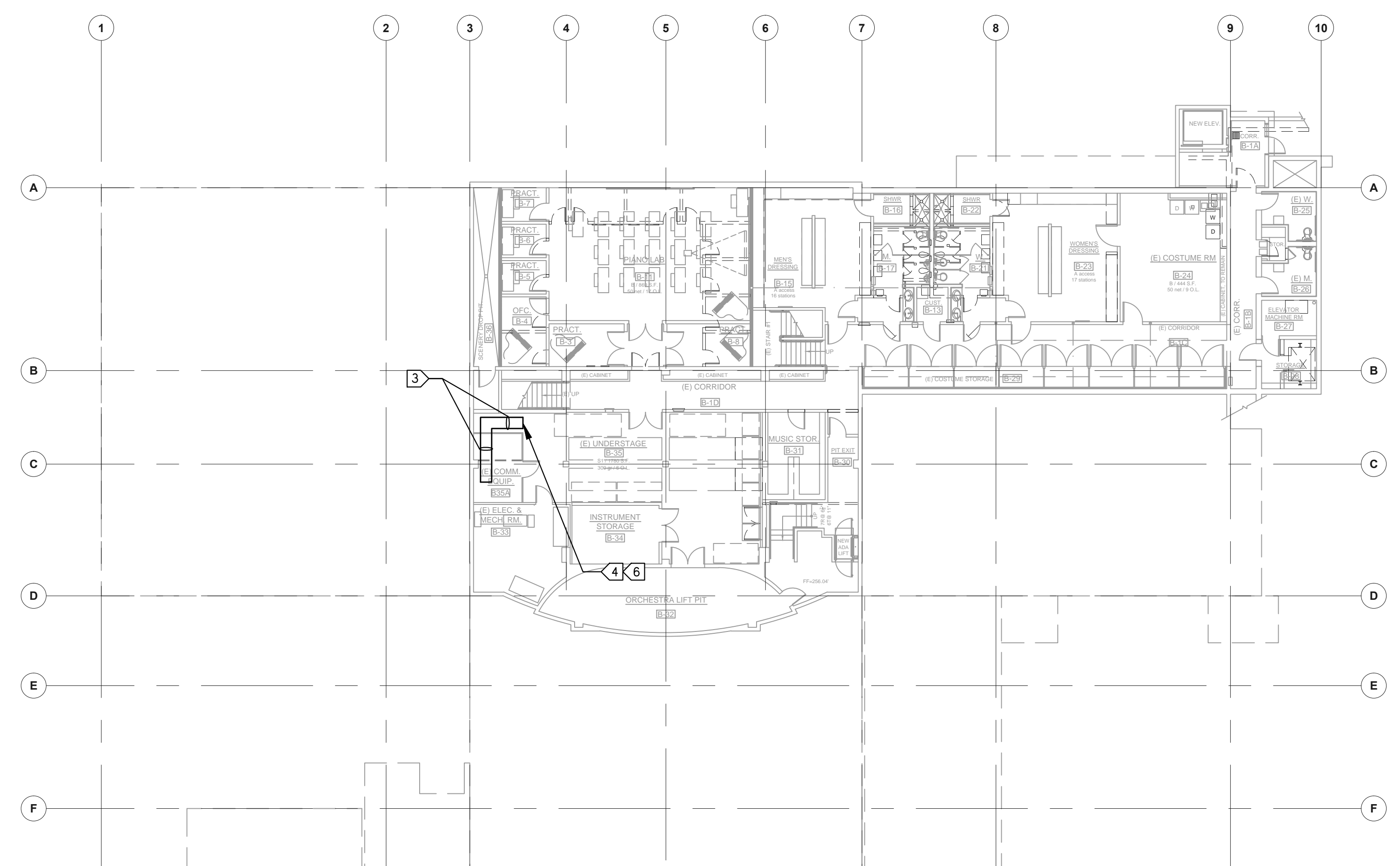
SECTION 4
NONE E6.3



FIRST FLOOR 2
SCALE: 1/16"=1'-0" E6.3



SECOND FLOOR 3
SCALE: 1/16"=1'-0" E6.3



BASEMENT 1
SCALE: 1/16"=1'-0" E6.3



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client:

**Ventura County
Community
College District**

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LDON & ASSOCIATES INC.
COMMERCIAL ELECTRICAL ENGINEERING
3000 COSTA MESA BLVD, SUITE 200
CANAVERA, CA 92924-8004
(805) 399-8530 FAX (805) 399-6579
Web Site: <http://www.lsdon.com>

seal:



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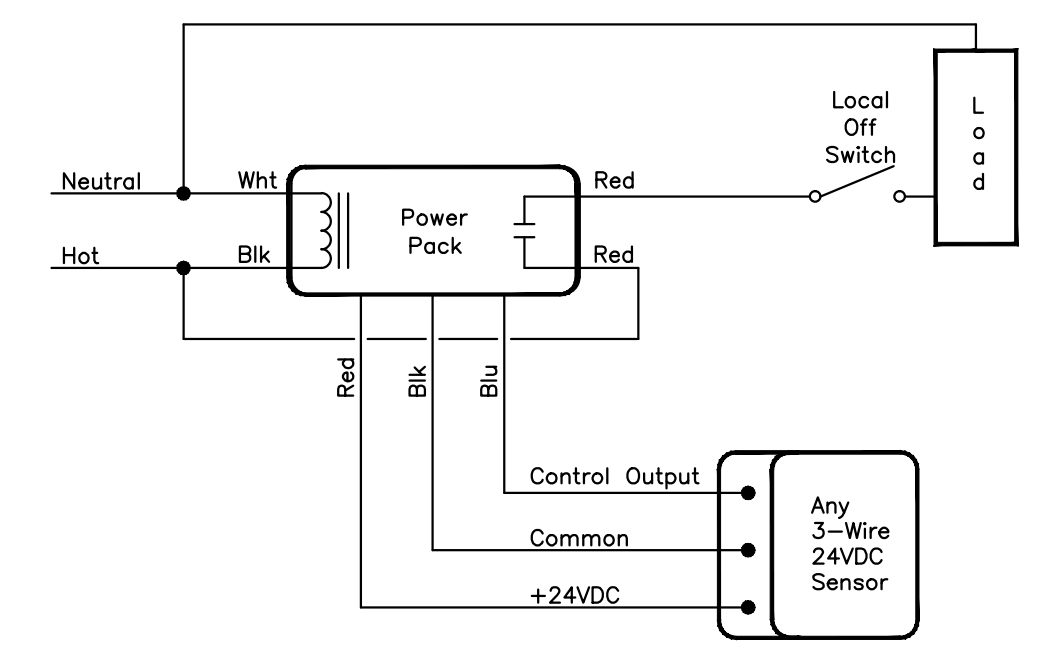
print date: 09/20/2010

sheet title: **BUILDING CABLE**

TRAY PLAN

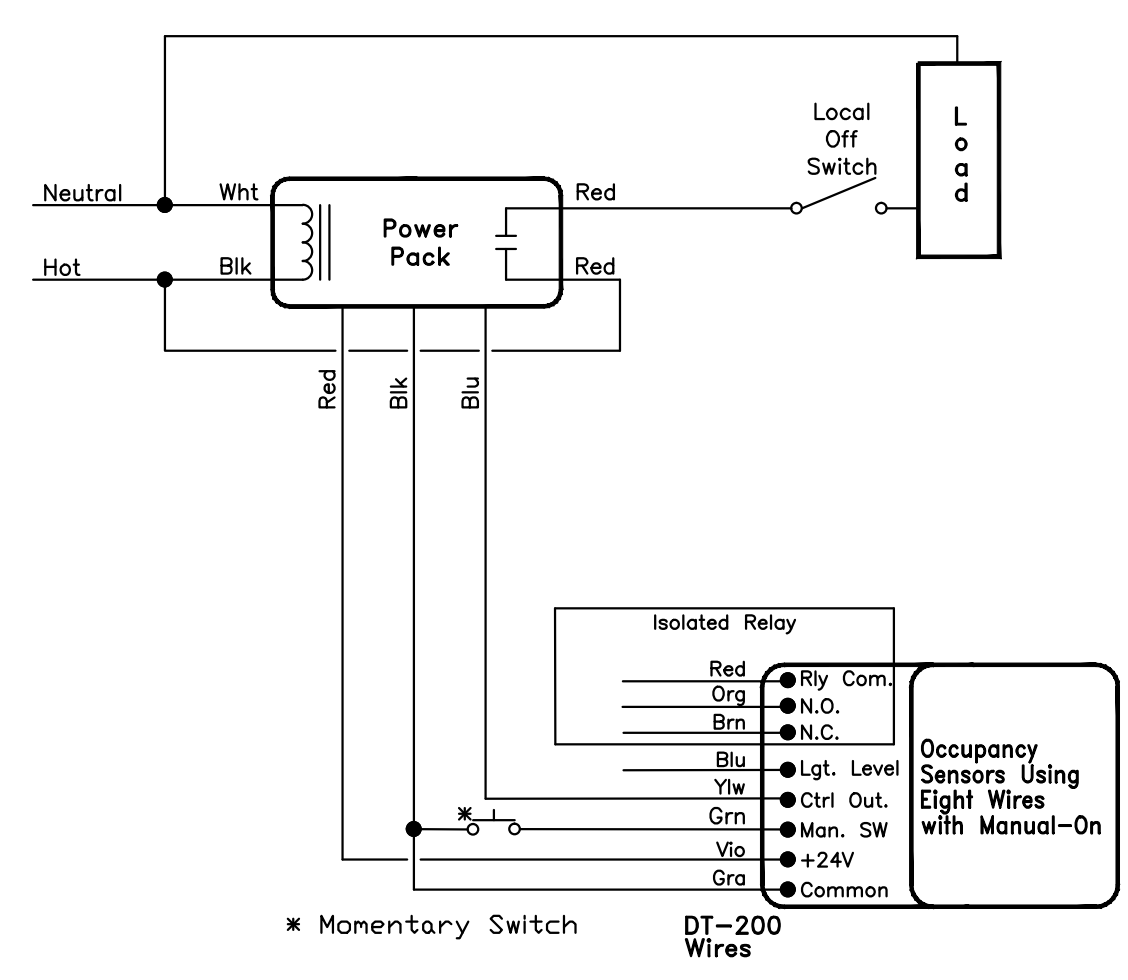
E6.3

SDP: C:\Users\mcs\OneDrive\Documents\10830803-E6.3.dwg Apr 15, 2013, 8:50am CM22



Any 3-Wire 24VDC Sensor
Standard Schematic

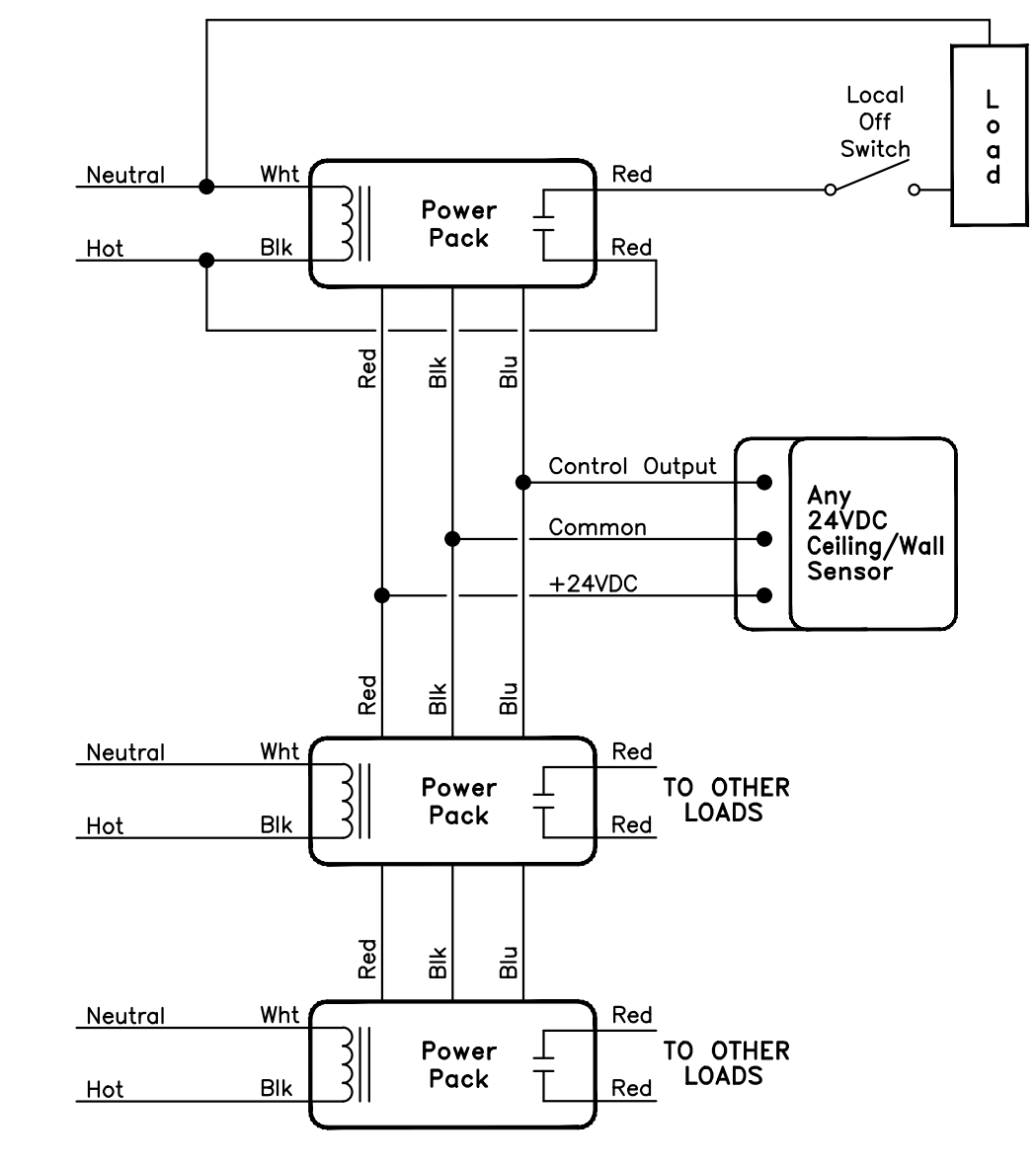
WATTSTOPPER 57-003-5
NO SCALE E6.4



Note:
The Manual ON feature via a momentary switch is optional. Refer to the installation instruction for additional information.

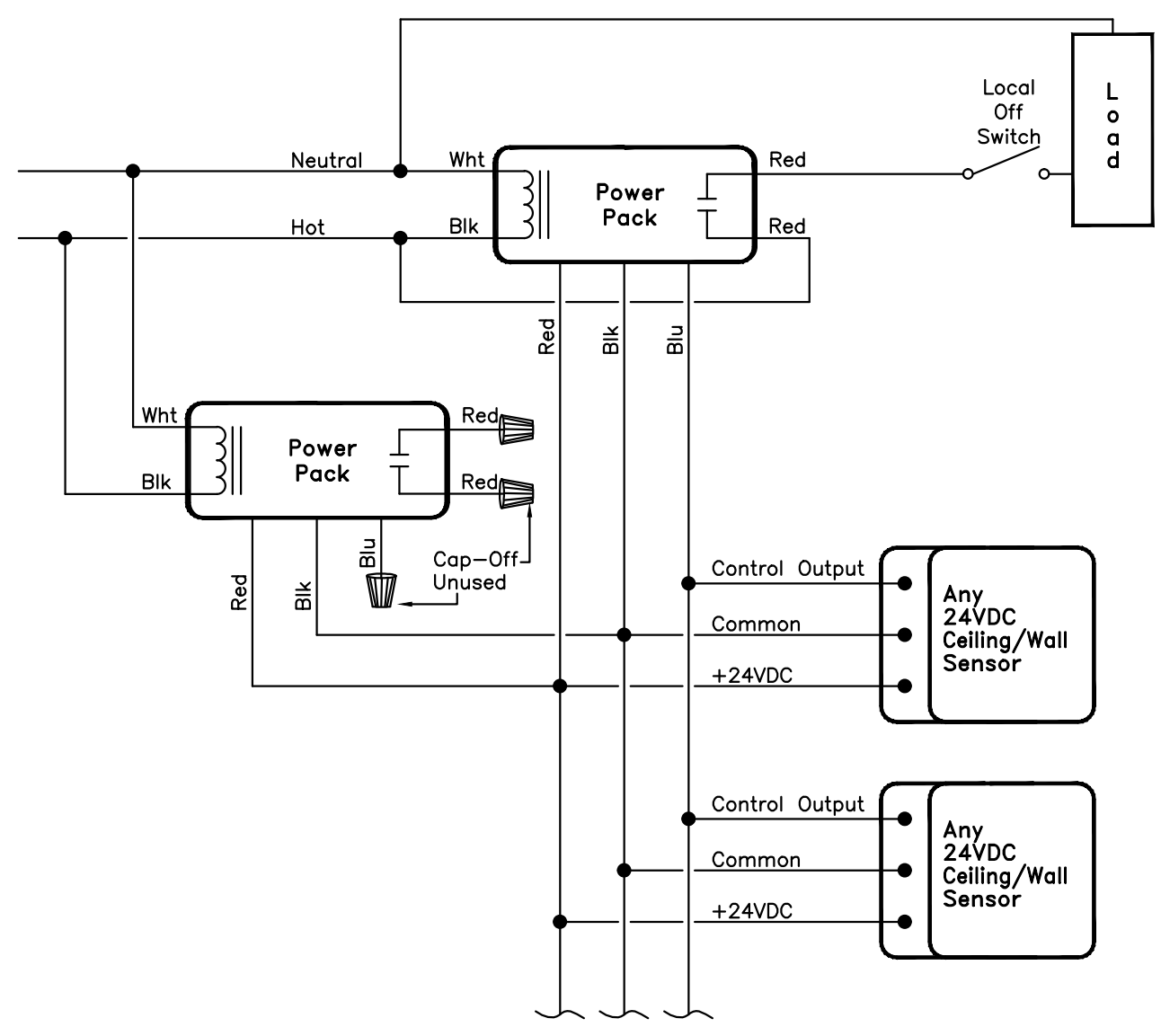
WATTSTOPPER 57-003-4
NO SCALE E6.4

DT-200 Occupancy Sensor with Manual-On Standard Schematic



Sensor Schematic For One Sensor and Up To 3 Power Packs

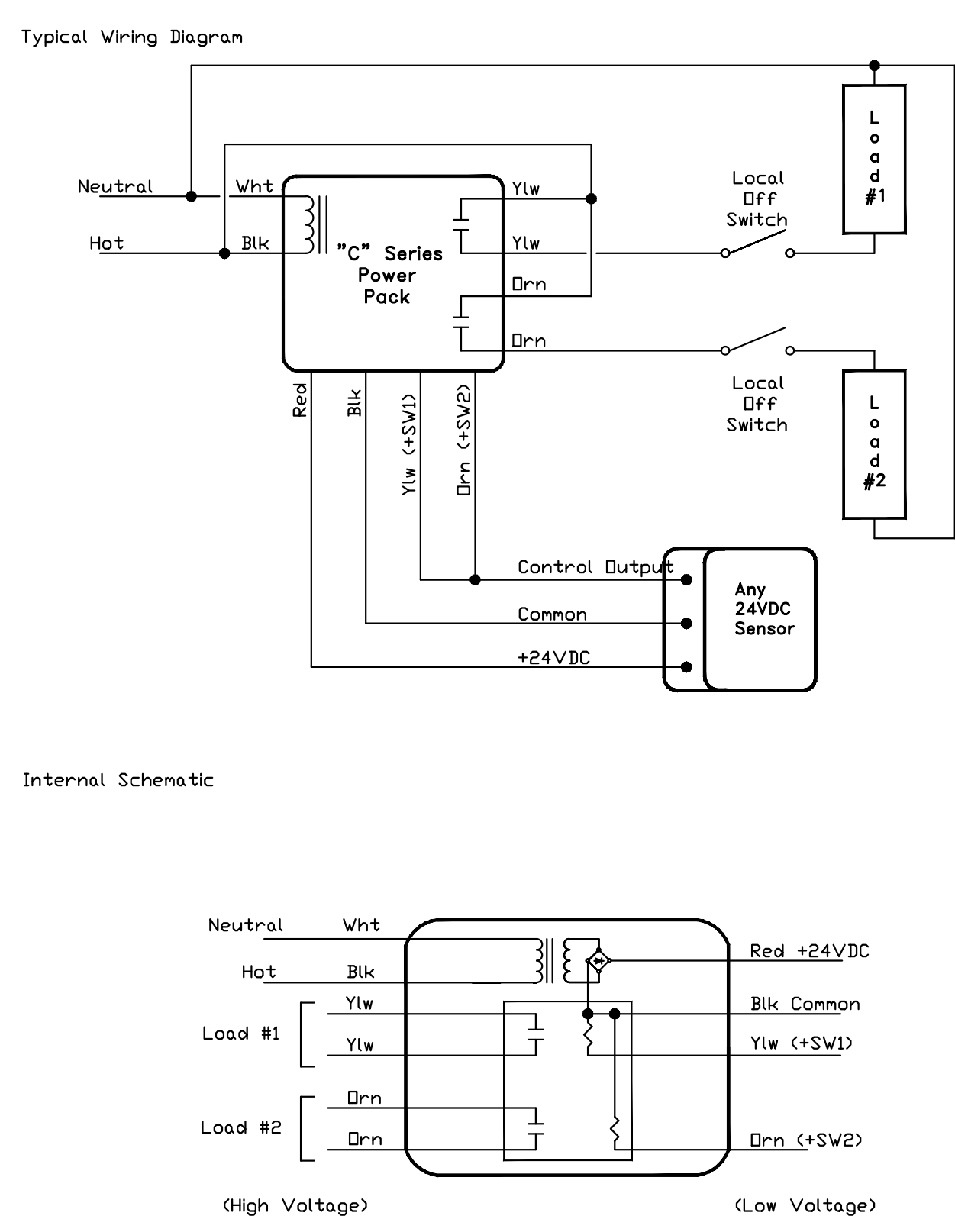
WATTSTOPPER 57-003-1
NO SCALE E6.4



Note:
Use this schematic when current consumption of multiple sensors exceeds current output of a single power pack.

WATTSTOPPER 57-010-1
NO SCALE E6.4

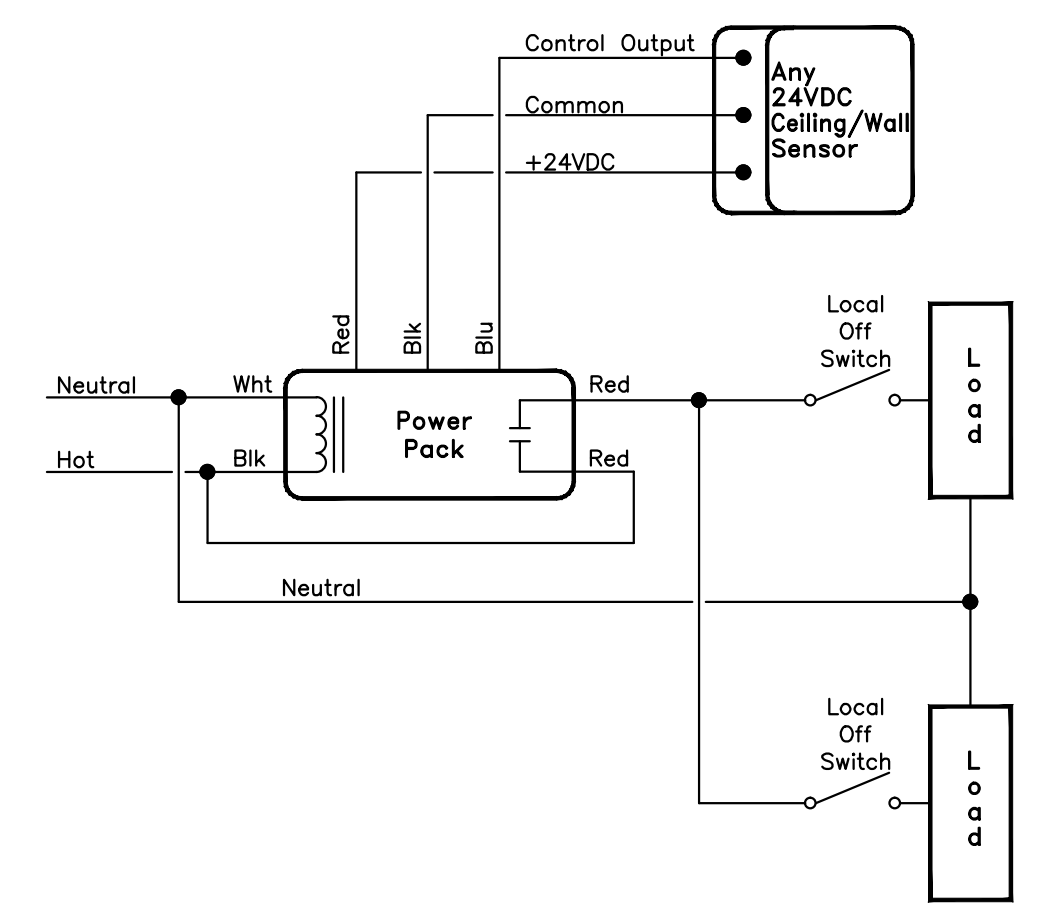
Multiple Occupancy Sensors With Multiple Power Packs



Note:
The "C" Series power pack has an output of 150 mA before relays are connected; 75 mA after both relays are connected.

WATTSTOPPER 57-007-2
NO SCALE E6.4

"C" Series (2 Relay) Power Pack Schematic



WATTSTOPPER 57-004-01
NO SCALE E6.4

Any 24VDC Sensor Controlling Dual Level Lighting



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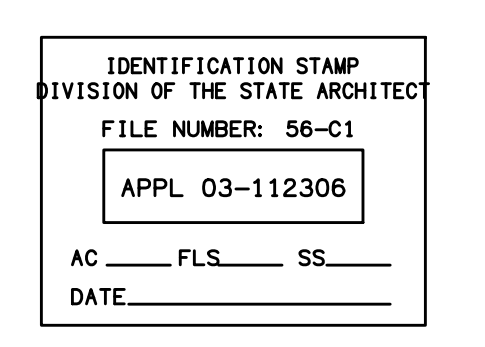
255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LUNA & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3255 OAKS WALNUT, #401
CARMELITE, CA 95018-8090
(805) 389-4230 FAX (805) 389-6519
Web Site: <http://www.lunaee.com>



dsa: 03-112306



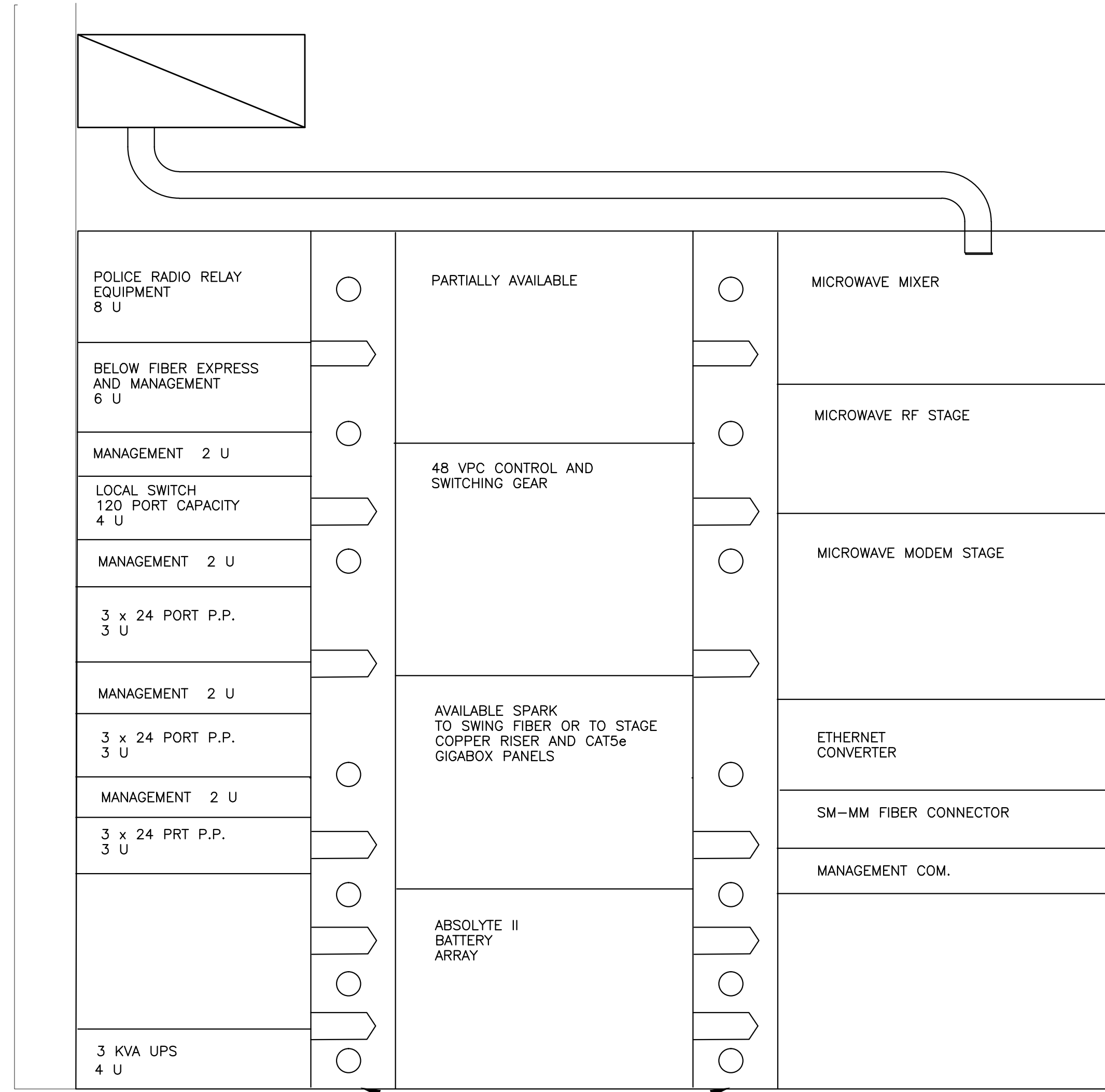
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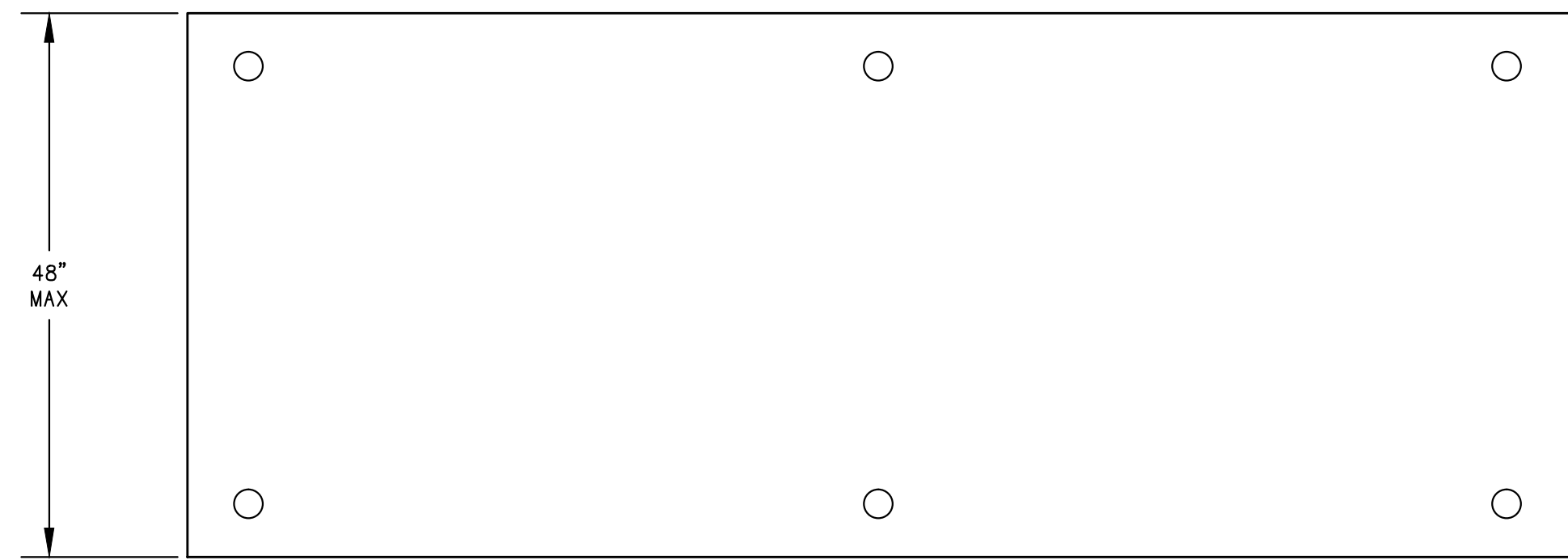
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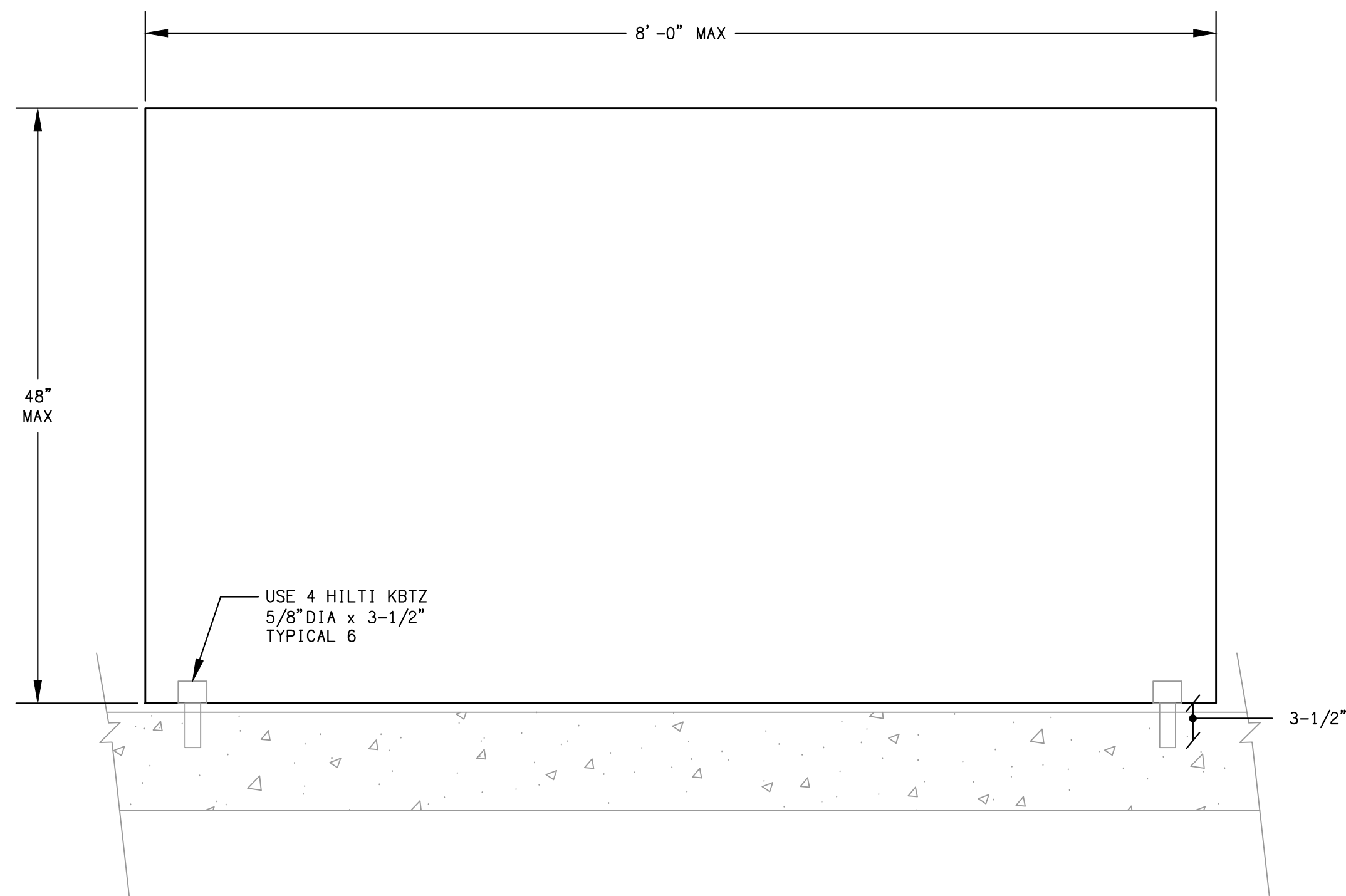
E6.4



4" VERTICAL MANAGEMENT **IDF 0.1 RACK DETAIL**

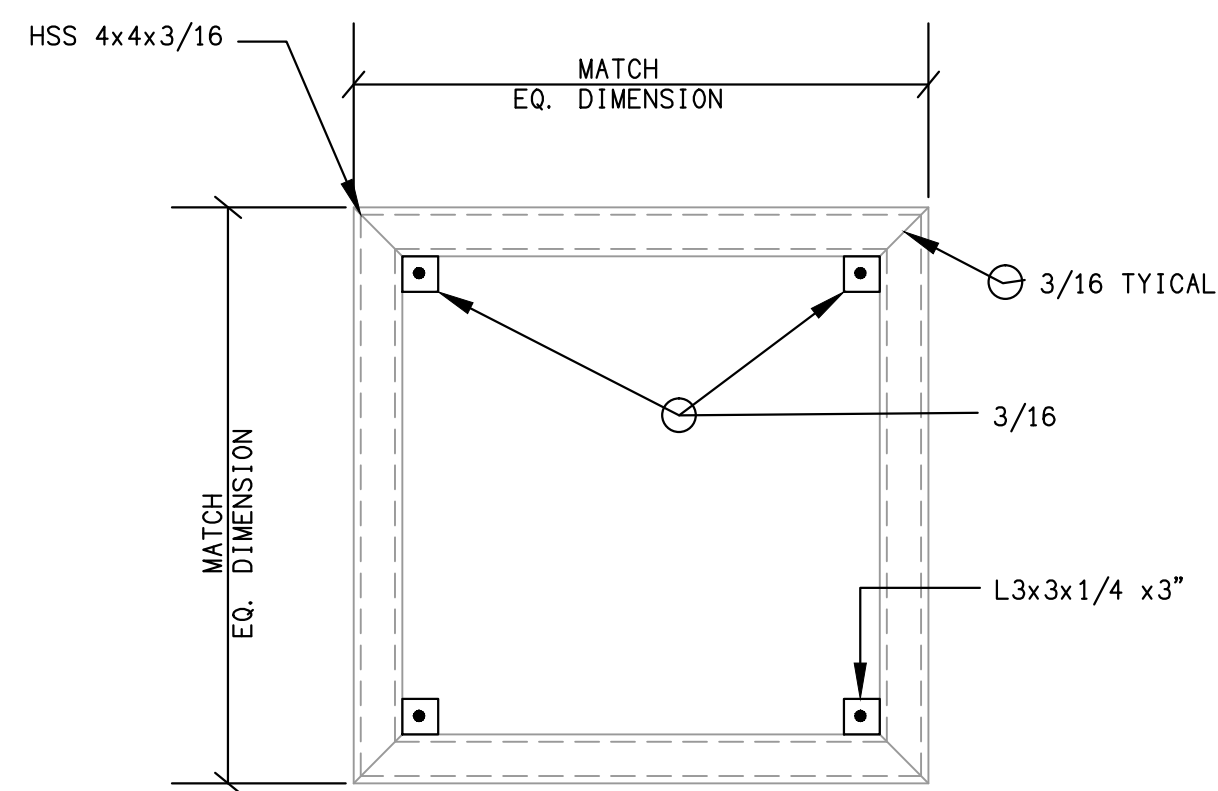


PLAN VIEW



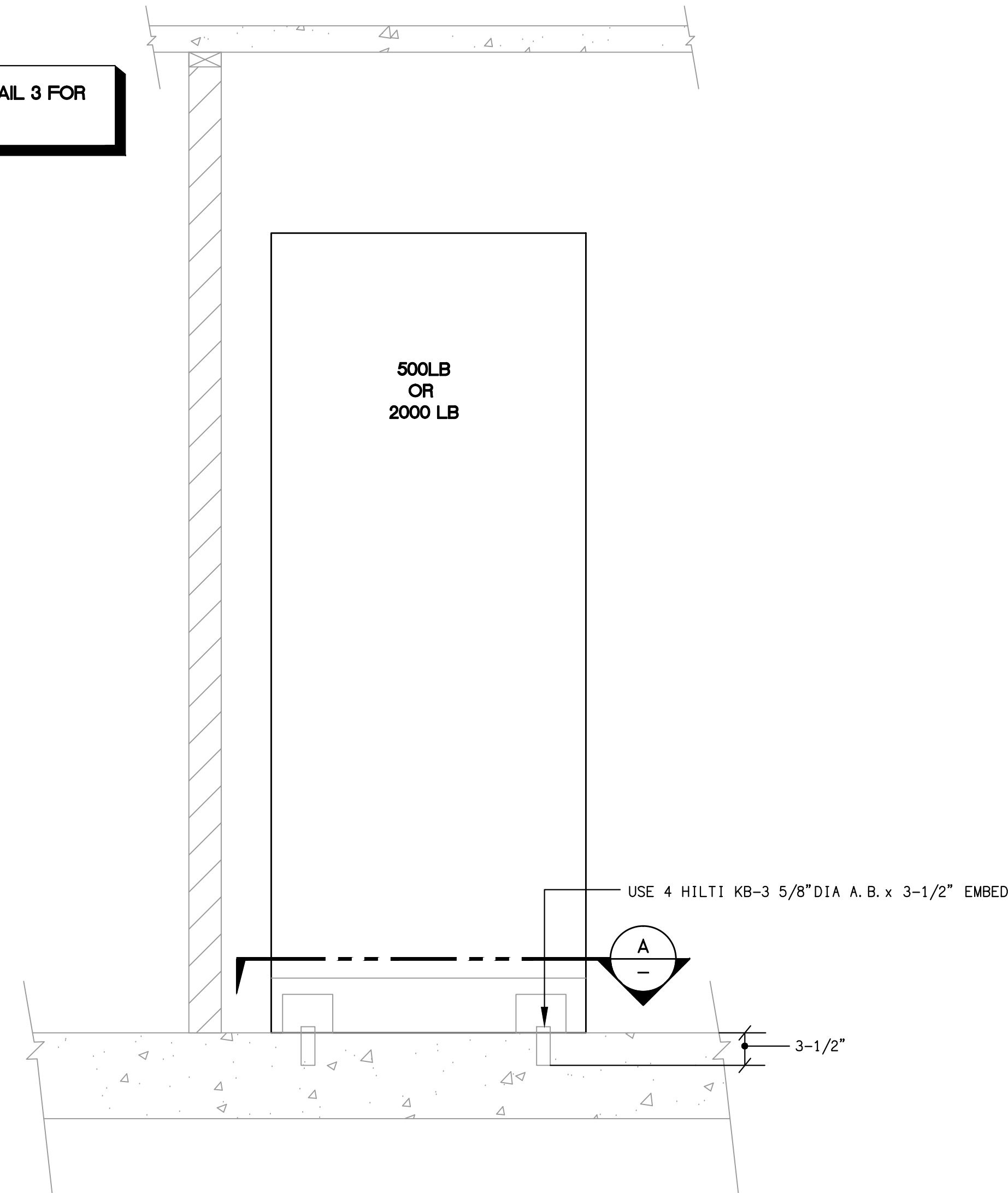
SECTION VIEW

STRUCTURAL MOUNTING DETAIL 4
SCALE: NONE E6.5
2000# TO 4000#



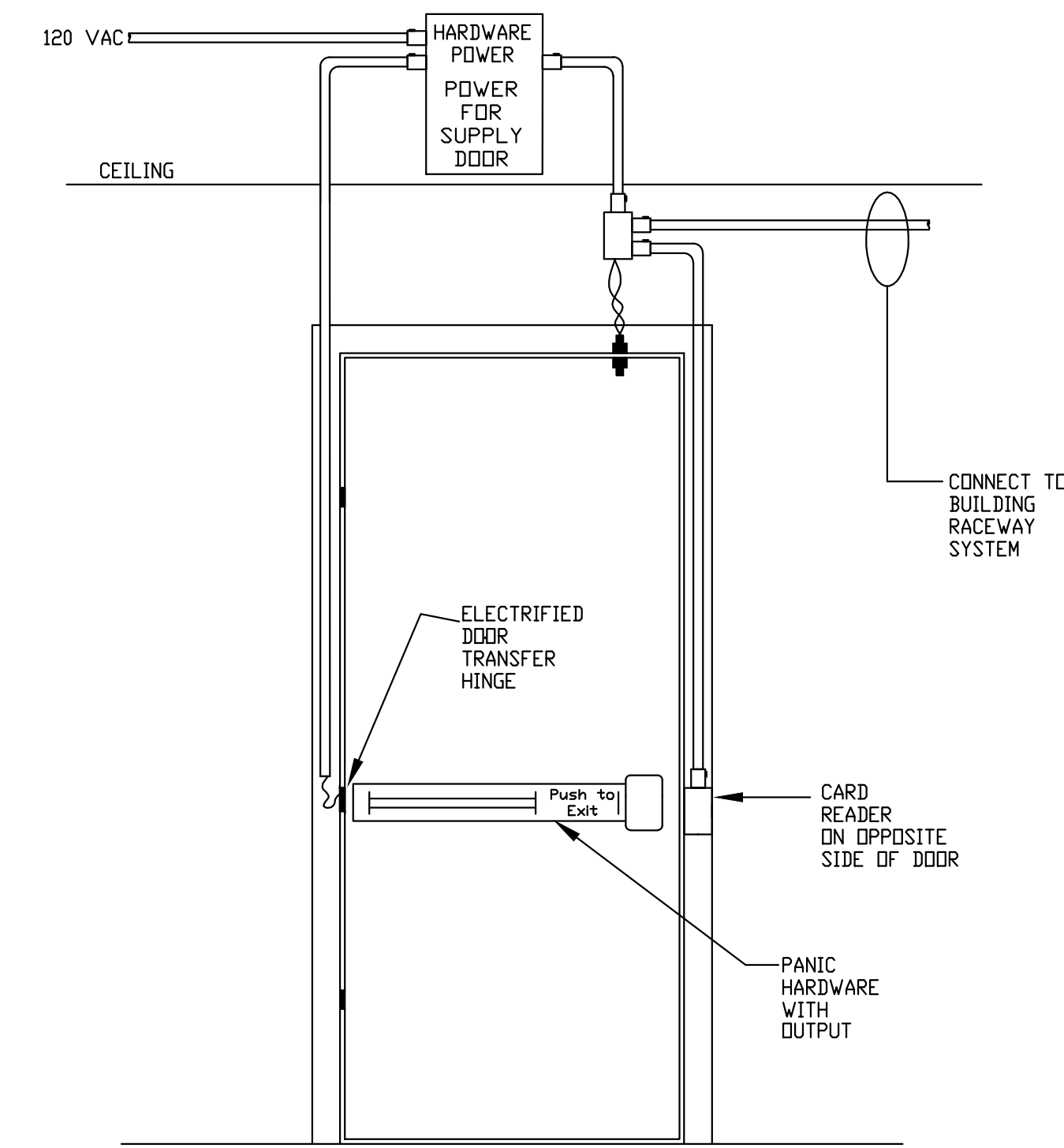
PLAN VIEW
SCALE: NONE

SEE SHEET E41 DETAIL 3 FOR MORE INFORMATION



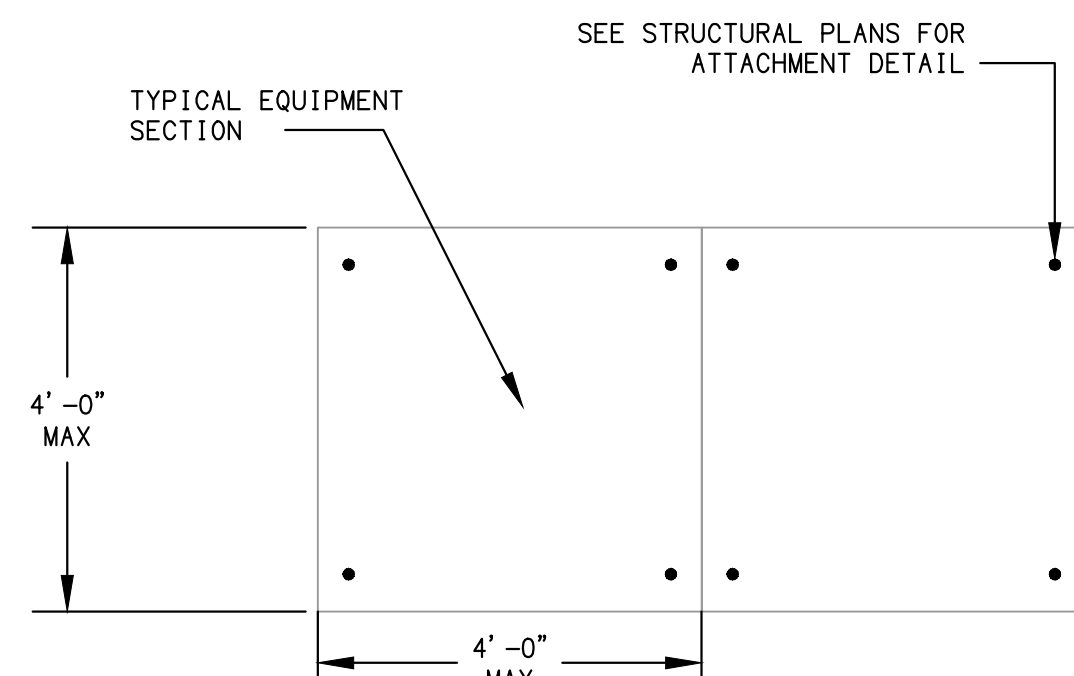
TYPICAL SECTION

STAND UP ELECTRICAL EQUIPMENT ANCHORAGE DETAIL 3
SCALE: NONE E6.5



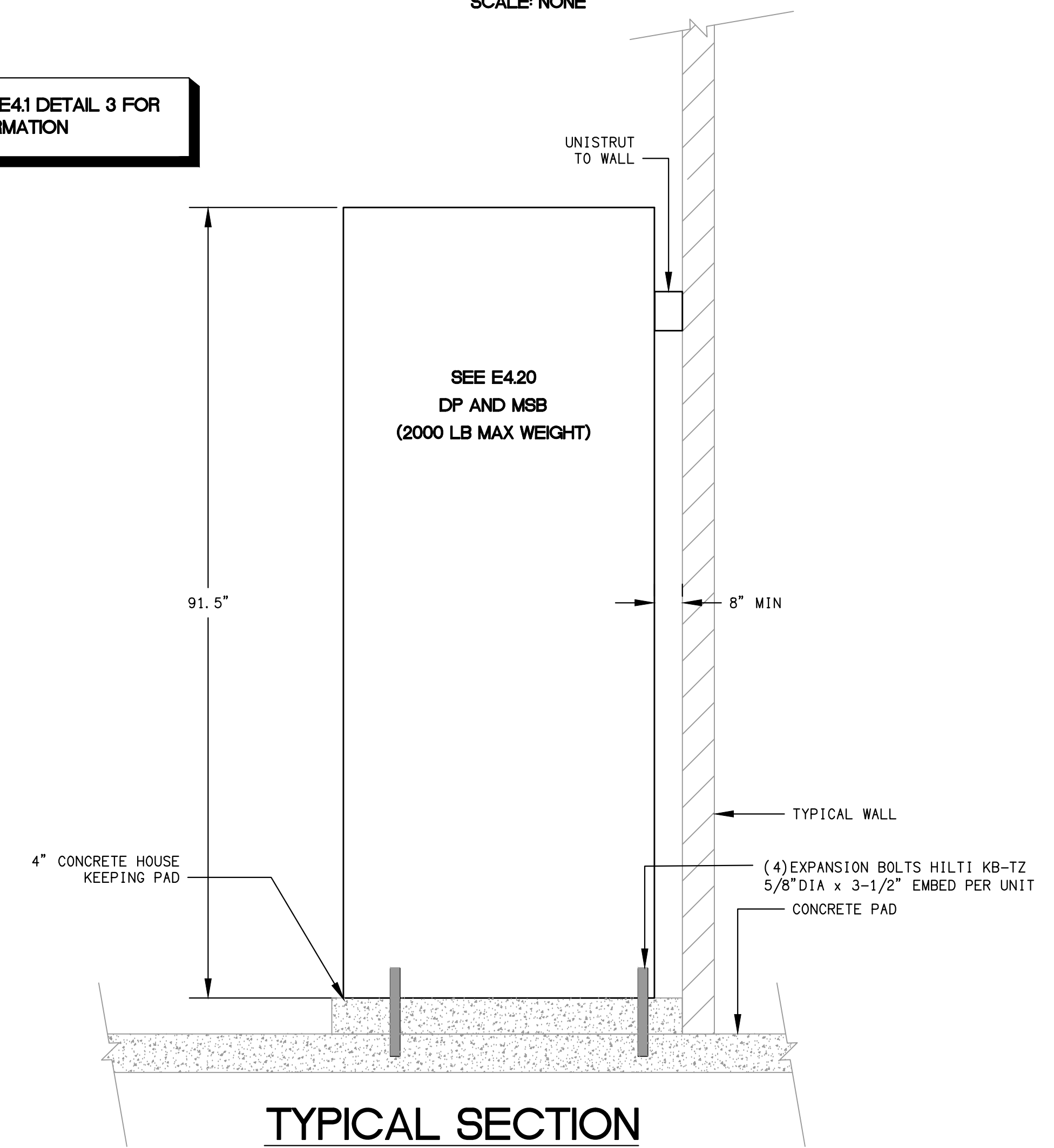
SINGLE DOOR WITH PANIC HARDWARE & AND CARD READER & DOOR POSITION SWITCH

SINGLE DOOR W/ CARD READER, PANIC HARDWARE and DPS 1
SCALE: NONE E6.5



PLAN VIEW
SCALE: NONE

SEE SHEET E41 DETAIL 3 FOR MORE INFORMATION



TYPICAL SECTION

STAND UP ELECTRICAL EQUIPMENT ANCHORAGE DETAIL 2
SCALE: NONE E6.5



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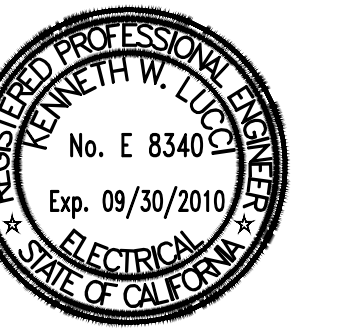
Ventura County Community College District

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LUNA & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
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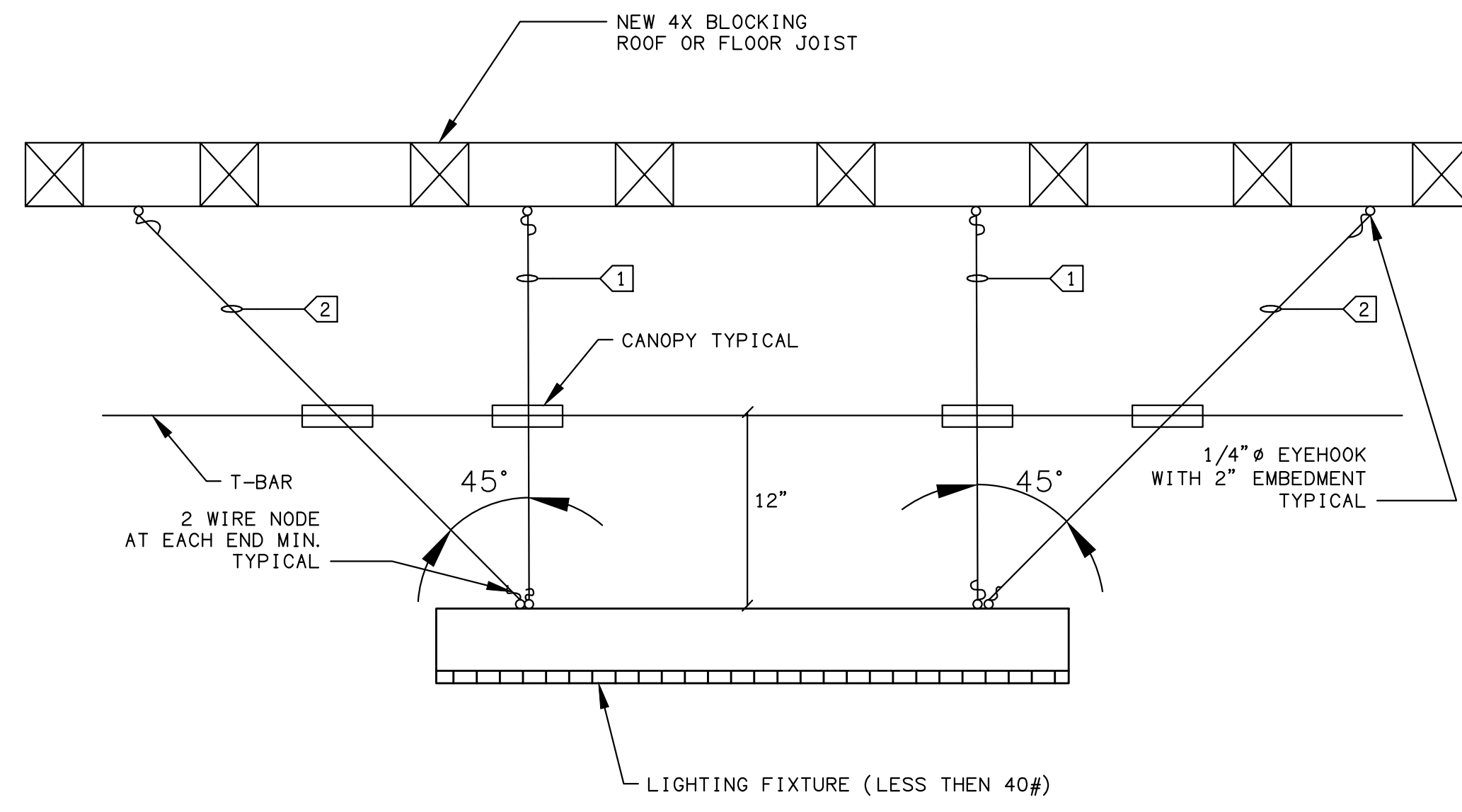
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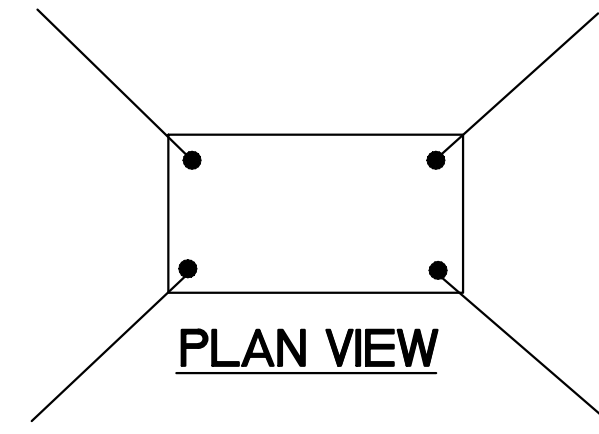
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E6.5

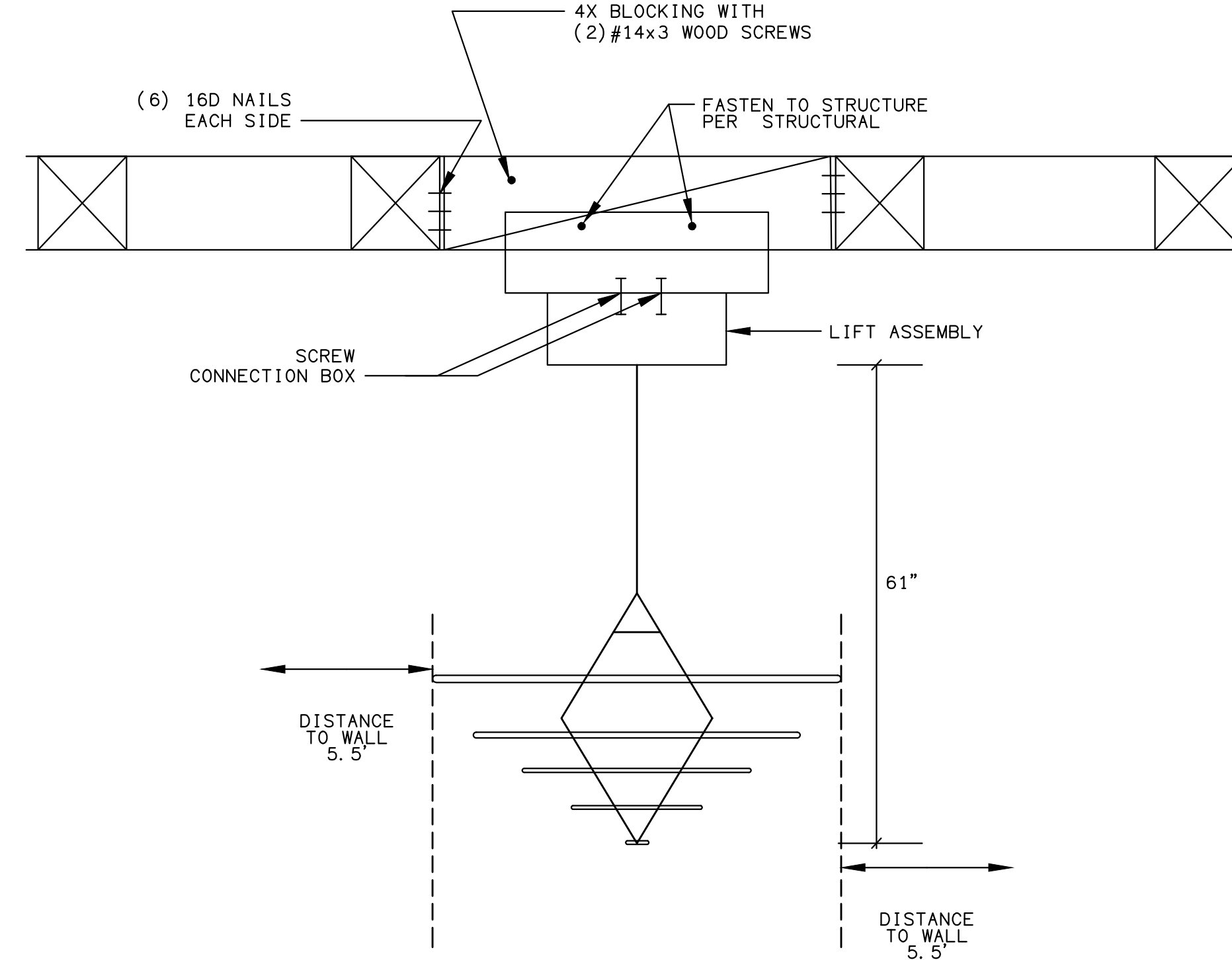


KEY NOTES:

- ① 1/4" AIRCRAFT CABLE TO STRUCTURE ABOVE.
- ② ALL ① WHEN FIXTURE MAY SWAG/SWING AND STRIKE A PERMANENT ITEM.

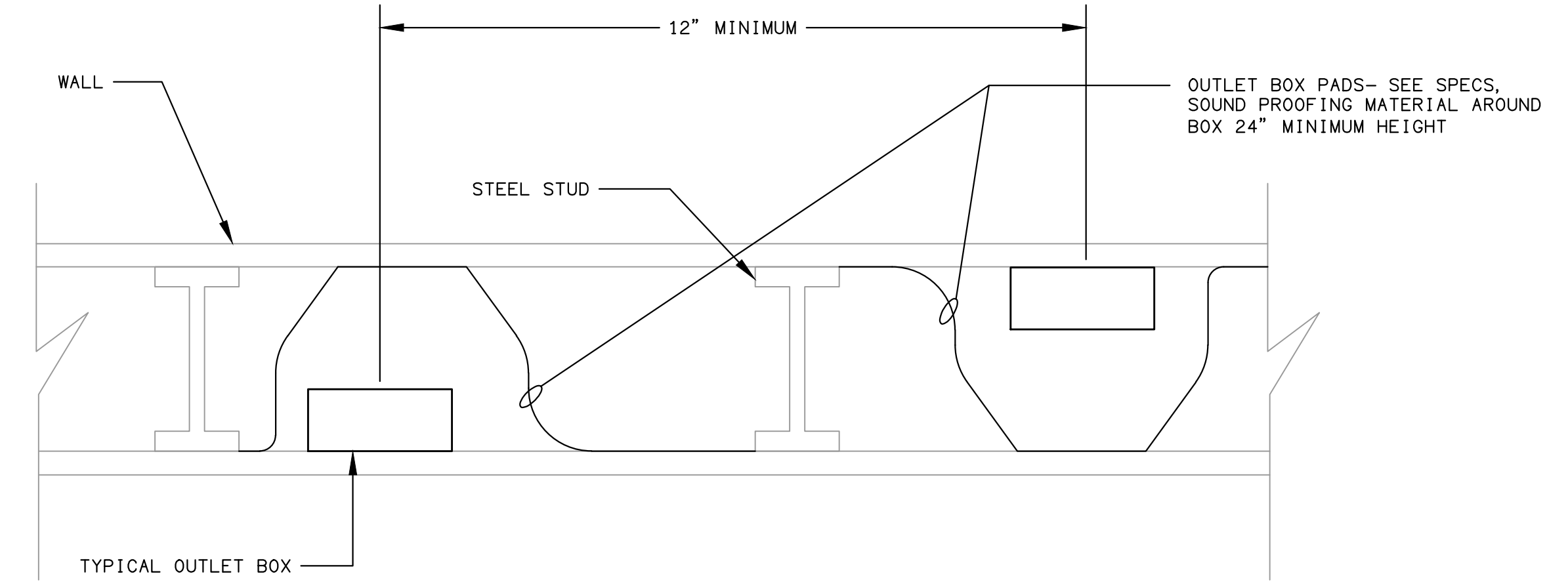


PENDANT FIXTURE 7
SCALE: NONE E6.9

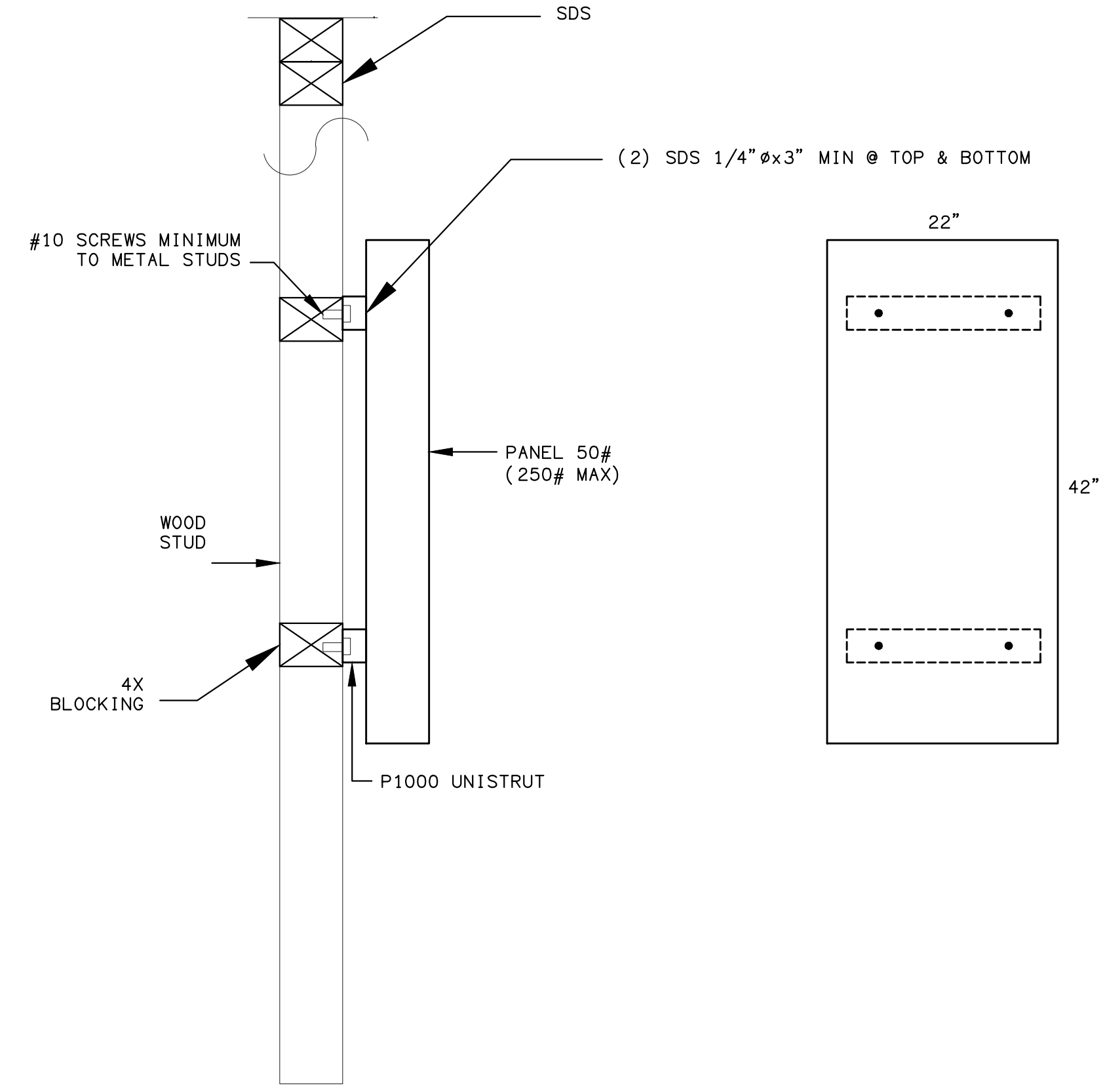


FIXTURE WEIGHT 16#

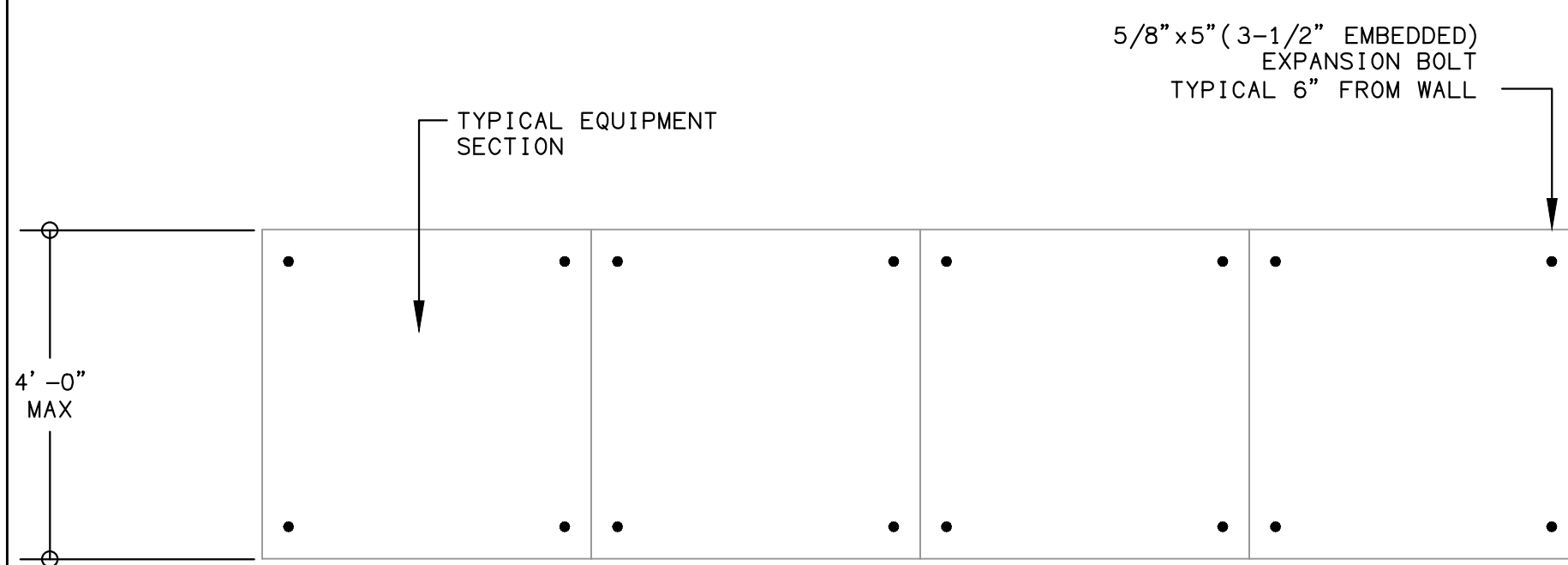
FIXTURE DETAIL 4
SCALE: NONE E6.9



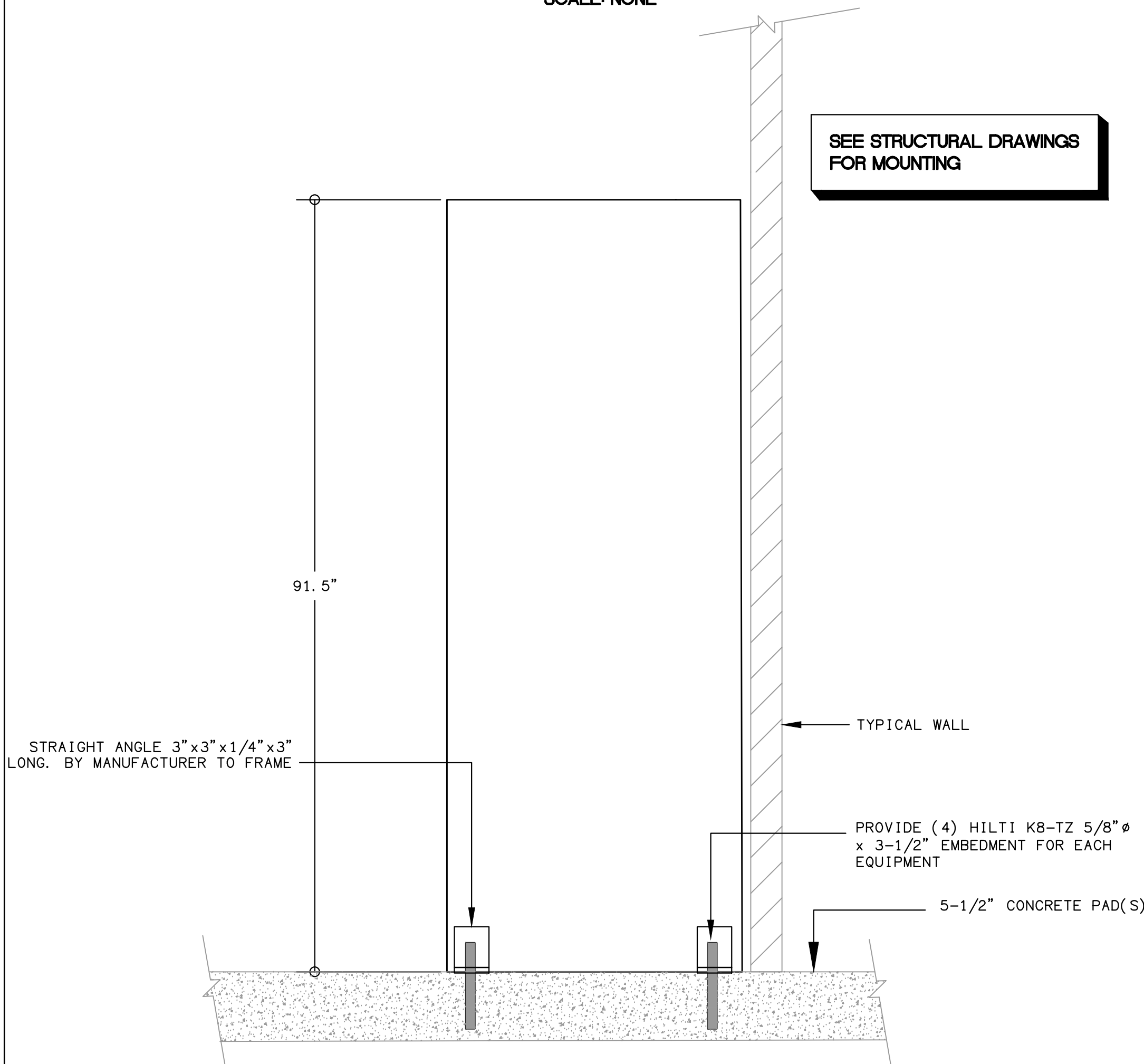
RECEPTACLE SOUND PROOFING DETAIL 1
SCALE: NONE E6.9



WALL MOUNT PANEL INSTALLATION 2
SCALE: NONE E6.9

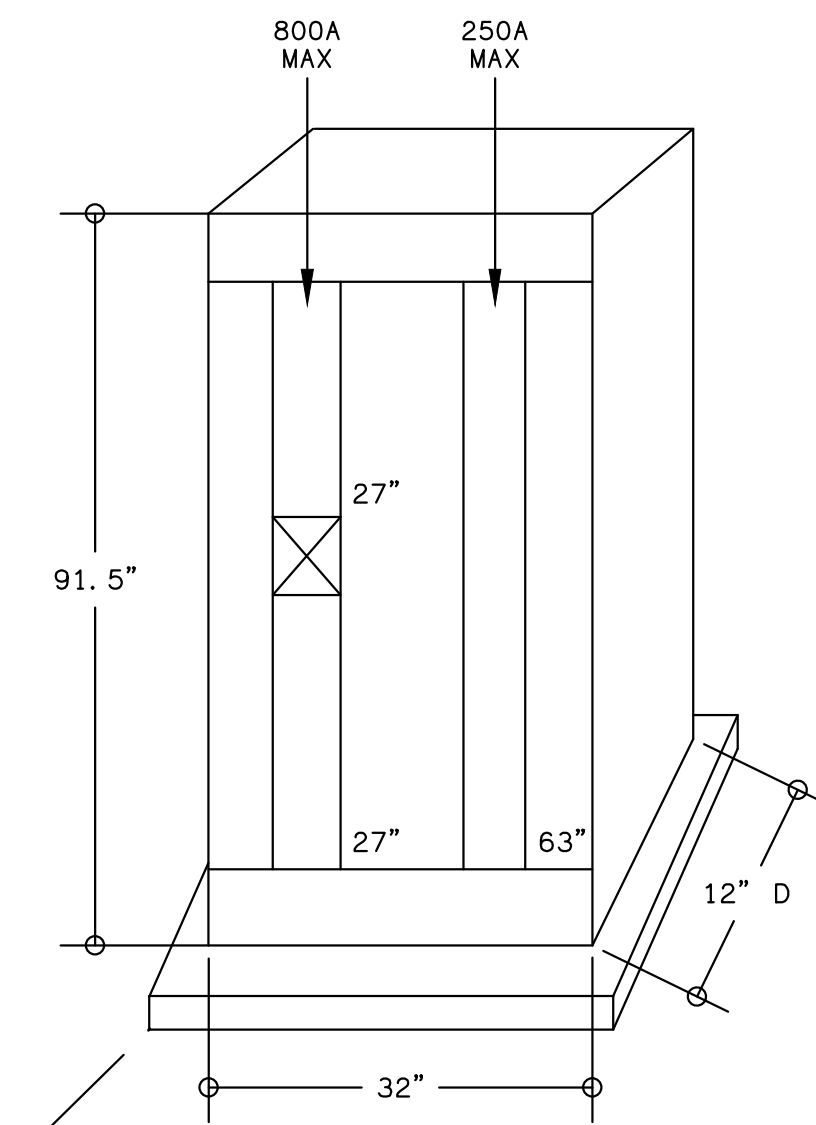


PLAN VIEW
SCALE: NONE



TYPICAL SECTION

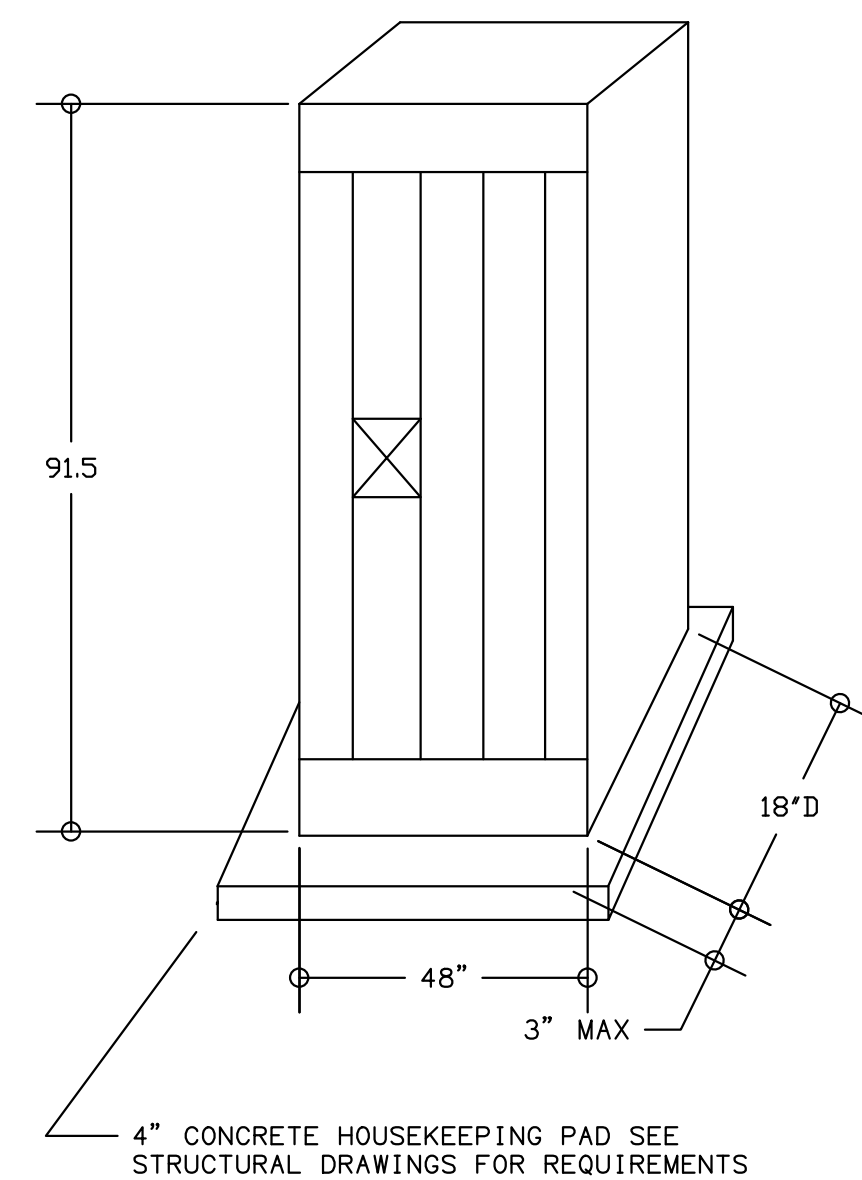
STAND UP ELECTRICAL EQUIPMENT ANCHORAGE DETAIL 8
SCALE: NONE E6.9



SEE DETAIL 8 E6.9

WT 1000#

SWITCHBOARD "IP" 5
400A, 120Y/208V, 3Ø, 4W, 32K SCALE: NONE E6.9

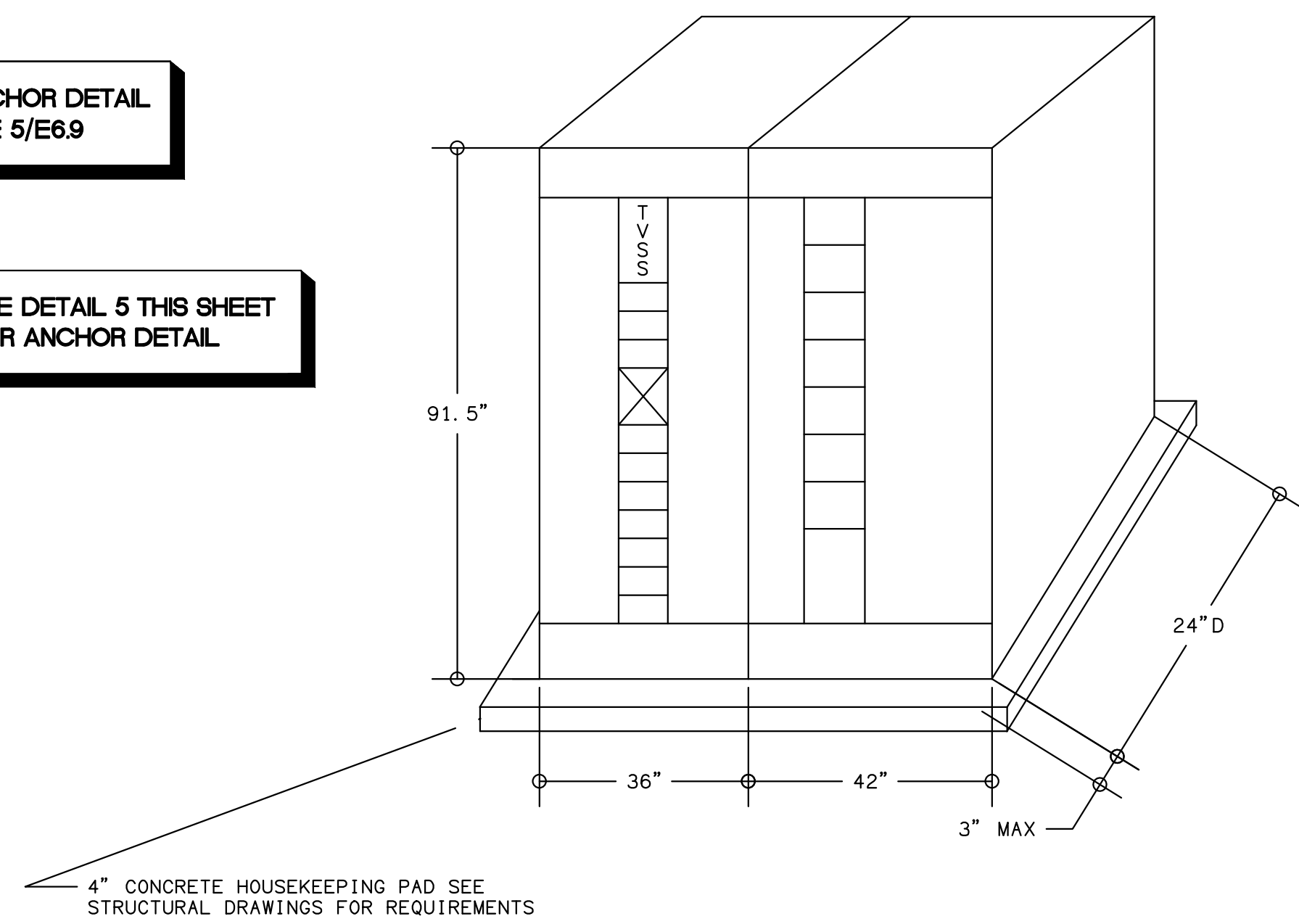


SEE DETAIL 8 E6.9

ALL BOLTS SHALL BE 9" TO EDGE DISTANCE TYPICAL ALL BOLTS/PADS

WT 1000#

SWITCHBOARD "DP" 6
800A, 120/208V, 3Ø, 4W, 22K SCALE: NONE E6.9 E4.1



ANCHOR DETAIL SEE 5/E6.9

SEE DETAIL 5 THIS SHEET FOR ANCHOR DETAIL

WT 2400#

"MSB" MAIN SERVICE SWITCHBOARD 3
1000A, 480Y/277V, 3Ø, 4W, 42K SCALE: NONE E6.9 E4.1



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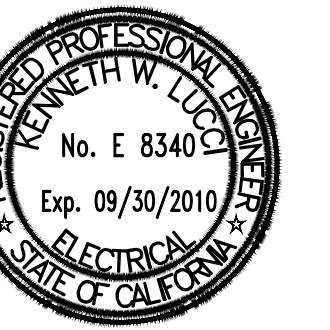
Ventura County Community College District

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F: 805.646.3924

project:

Ventura College Theater, Bldg G Modernization

4667 Telegraph Rd.
Ventura, CA 93003

client:

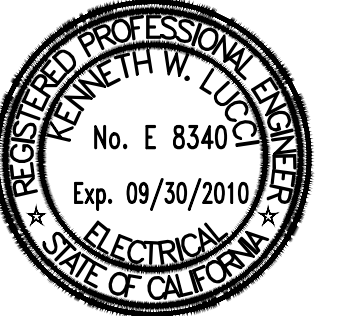
Ventura County Community College District

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LDON & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3000 COSTA MESA BLVD, #401
CARMELITE, CA 95008-8004
(805) 889-6230 FAX (805) 889-6219
Web Site: <http://www.lendon.com>

seal:



dsa: 03-112306

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 58-C1
APPL. 03-112306
AC _____ FLS _____ SS _____
DATE _____

the original size of this drawing is 30" x 42"

Submissions / Revisions

11/03/09	ADDENDUM 3

print date: 09/20/2010

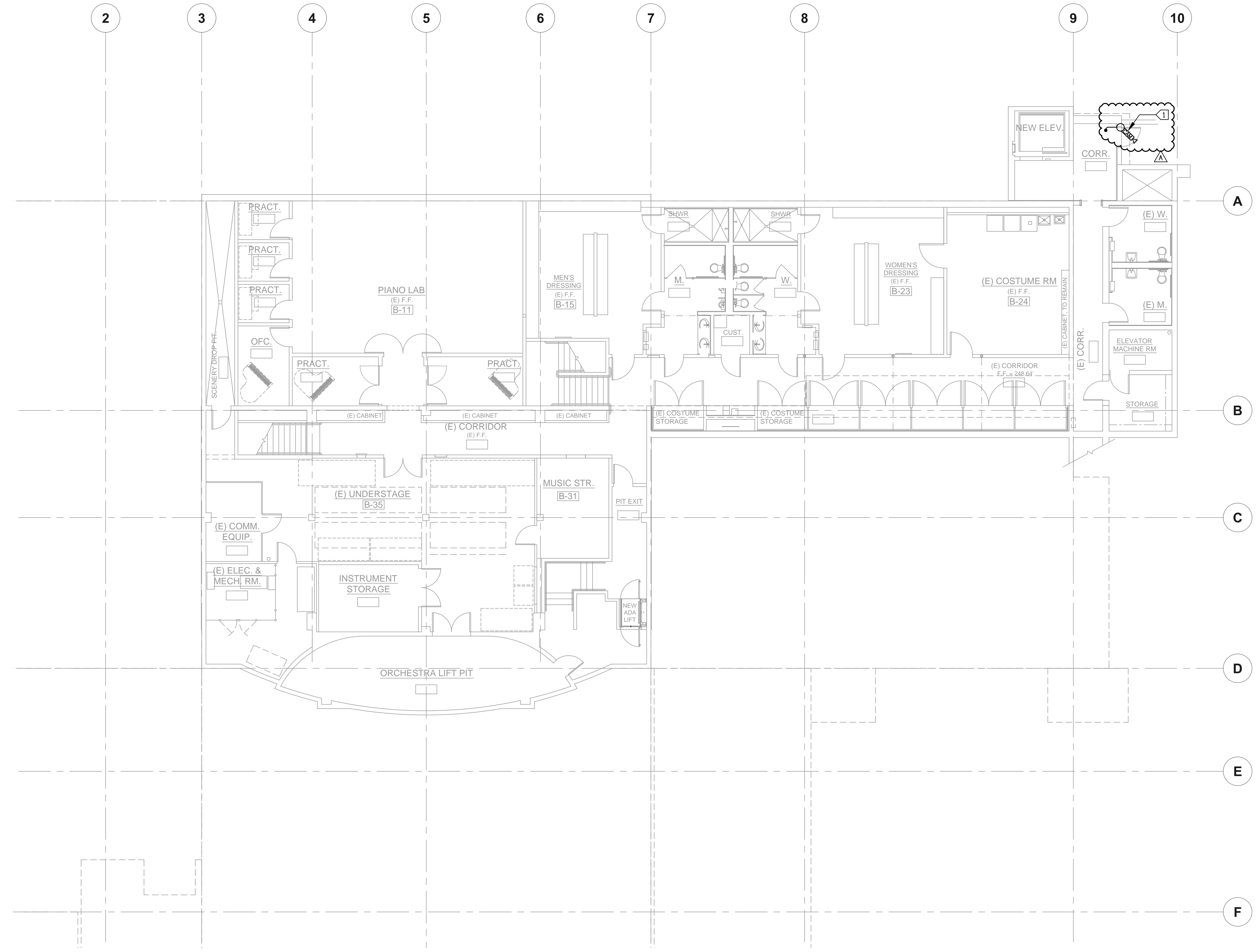
sheet title:
BASEMENT SECURITY PLAN

NEW DRAWING

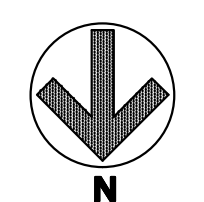
E7.1

KEY NOTES:

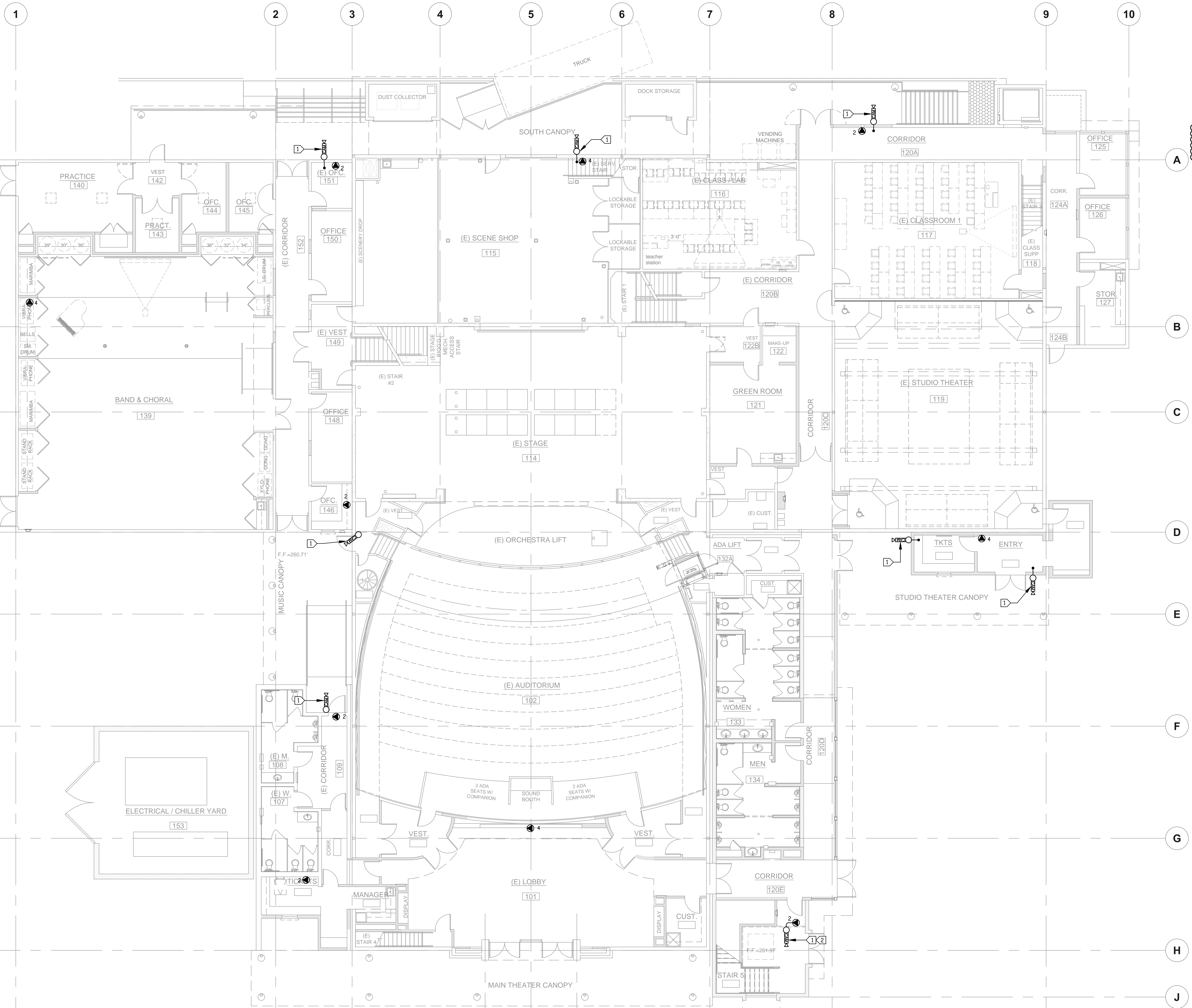
1 FIXED CAMERA, HOME RUN 3/4" C (2) CAT 5e TO CABLE TRAY TO IT ROOM SECURITY RACK.



BASEMENT SECURITY PLAN 1
SCALE: 1/8"=1'-0" E7.1



DATE PLOTTED: 09/20/2010 10:57:00 AM



KEY NOTES:

① FIXED CAMERA, HOME RUN 3/4" C (2) CAT 5e TO CABLE TRAY TO IT ROOM SECURITY RACK.

② VERIFY MOUNTING HEIGHT TYPICAL ALL.



DAVID BURY & COMPANY ARCHITECTS LTD.

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4667 Telegraph Rd.
Ventura, CA 93003

client:
Ventura County Community College District

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LDN & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3000 CORTE WALPADO, #611
CARMELITE, CA 95006-8004
(805) 399-6510 FAX (805) 399-6519
Web Site: <http://www.ldnassociates.com>



dsa: 03-112306

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DATE: _____

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Submissions / Revisions

11/03/09	ADDENDUM 3

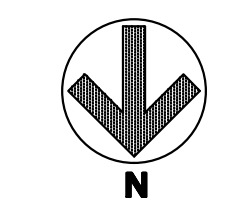
print date: 09/20/2010

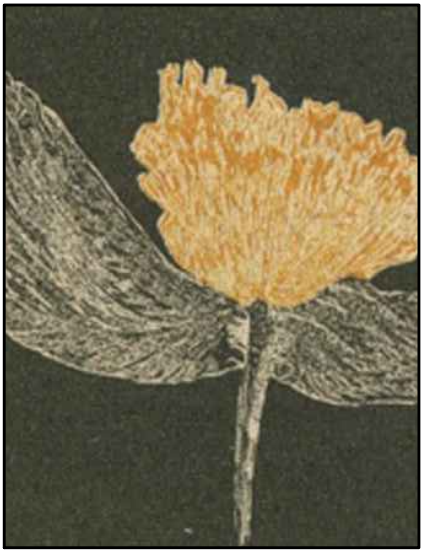
sheet title:
FIRST FLOOR SECURITY PLAN

NEW DRAWING

E7.2

FIRST FLOOR SECURITY PLAN 1
SCALE: 1/8"=1'-0" E7.2





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client:

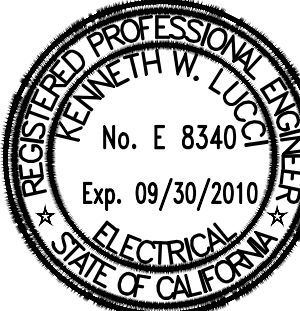
Ventura County Community College District

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LDD & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3000 COSTA MESA BLVD., #401
CARMEL, CA 95006-8004
(805) 889-8230 FAX (805) 889-6519
Web Site: <http://www.lddandassoc.com>

seal:



dsa: 03-112306

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DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 58-C1
APPL. 03-112306
AC _____ FLS _____ SS _____
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Submissions / Revisions

11/03/09 ADDENDUM 3

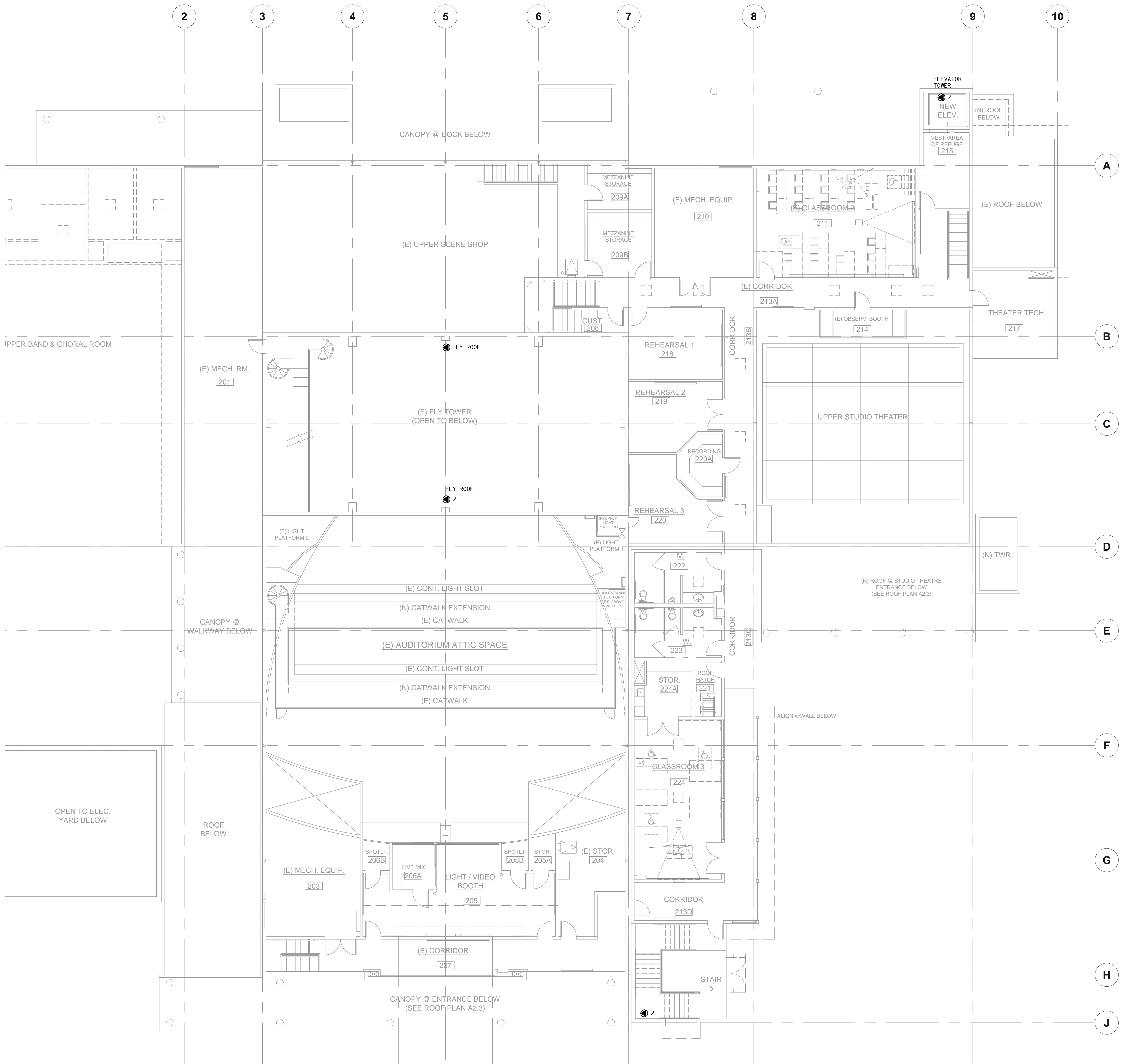
cad by: _____ chkd by: _____

print date: 09/20/2010

sheet title: **SECOND FLOOR SECURITY PLAN**

NEW DRAWING

E7.3

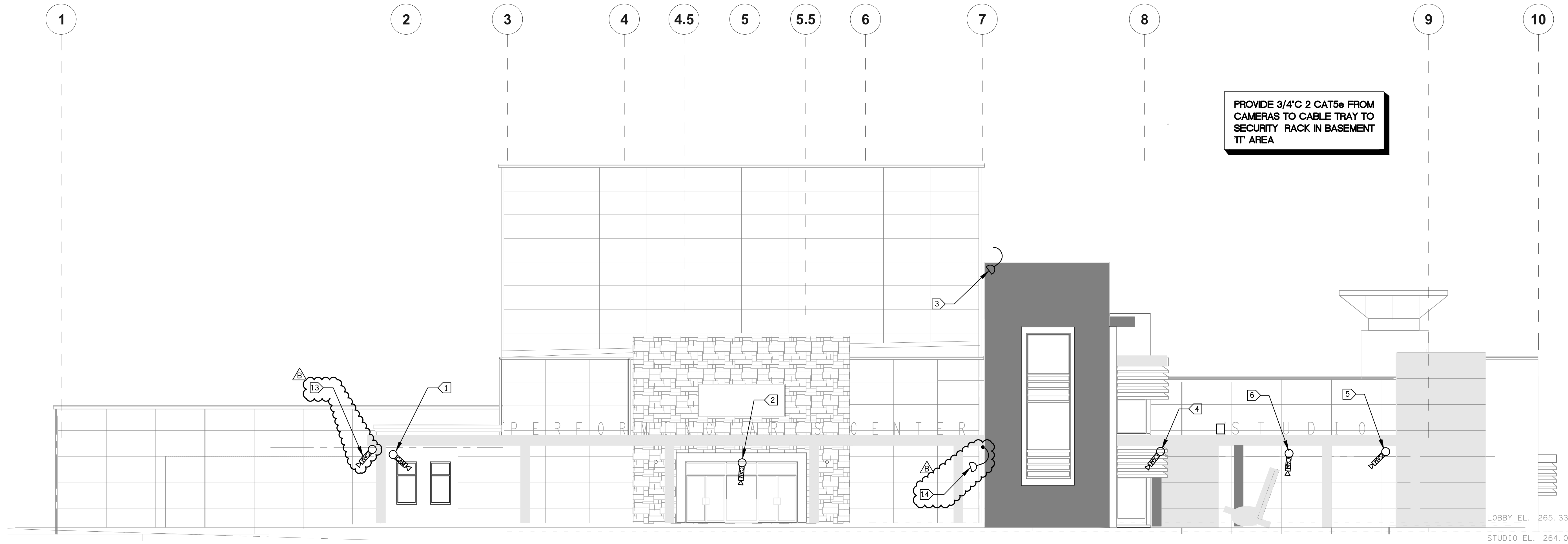


KEY NOTES:

1 FIXED CAMERA, HOME RUN 3/4" C (2) CAT 5e TO CABLE TRAY TO IT ROOM SECURITY RACK.

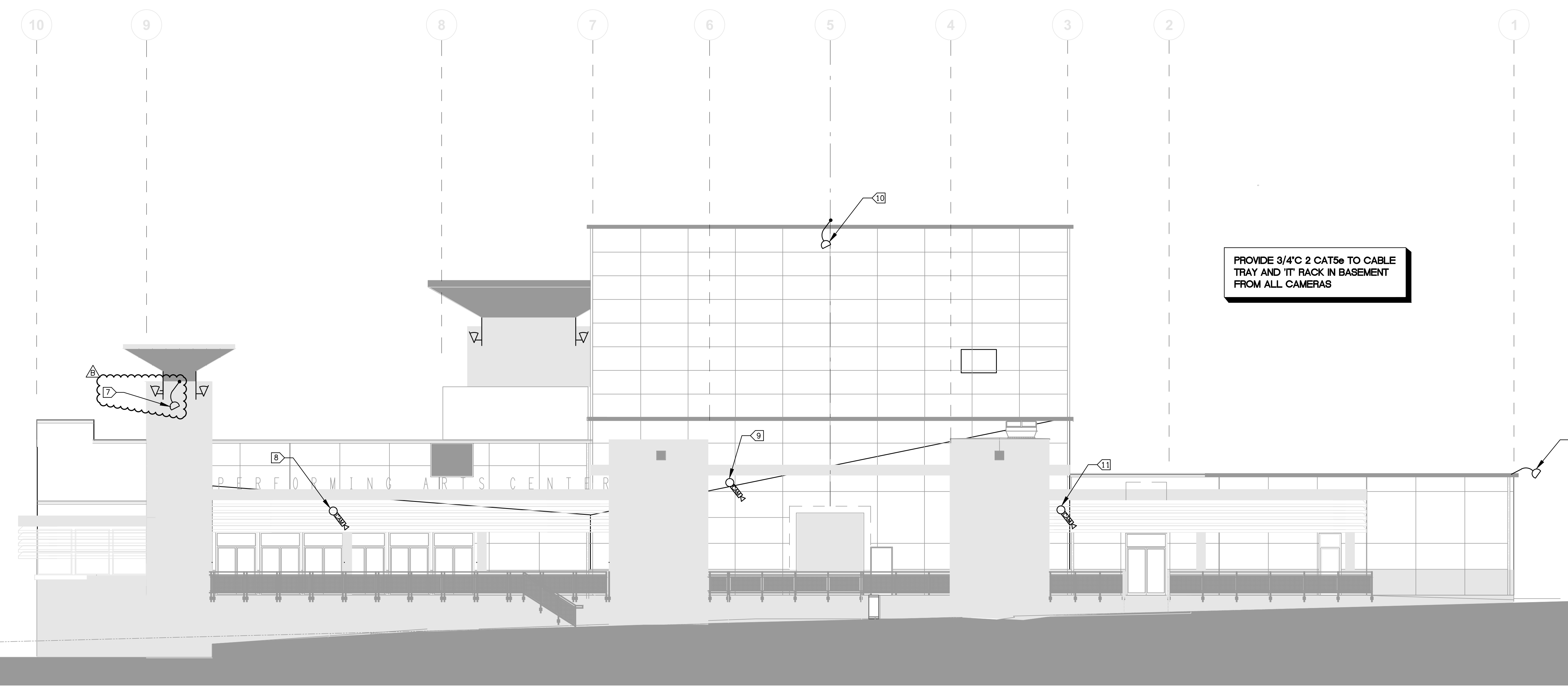
SECOND FLOOR SECURITY PLAN 1
SCALE: 1/8"=1'-0" E7.3





- KEY NOTES:**
- 1 INTERIOR CAMERA IN TICKET BOOTH, FIXED BEHIND SELLER.
 - 2 DUAL PTZ IN B BUILDING WITH PRESET STATION ON ENTRANCE DOOR.
 - 3 PTZ CAMERA ON CORNER OF PARAPIT, MOUNT ON NORTH STAIRWAY TOWER, SERVICE AREA NORTH LAWN, DRIVEWAY, WEST LAWN.
 - 4 FIXED CAMERA UNDER OVERHANG SERVICING WEST DOOR TO STAIRWAY.
 - 5 FIXED CAMERA UNDER OVERHANG SERVICING NORTH DOOR TO HALL AND WEST DOOR TO STUDIO THEATER.
 - 6 FIXED INTERIOR CAMERA IN STUDIO THEATER TICKET BOOTH.
 - 7 CENTER OF PARAPIT MOUNT PTZ FOR WEST PARKING LOT.
 - 8 FIXED EXTERIOR CAMERA BEHIND SHADES SERVICING SOUTH DOORS ON SECOND FLOOR.
 - 9 FIXED EXTERIOR CAMERA BELOW OVERHAND SERVICING OVERHAND ROLL UP AND SHED DOORS.
 - 10 PARAPIT MOUNT PTZ FOR SOUTH LAWN.
 - 11 FIXED EXTERIOR CAMERA BEHIND SHADES SERVICING SOUTH DOORS ON FIRST FLOOR.
 - 12 PARAPIT MOUNT PTZ FOR NORTH PARKING CENTRAL CAMPUS WAY.
 - 13 FIXED EXTERIOR CAMERAS AT EDGE OF BOOTH.
 - 14 FIXED CAMERA AT EDGE OF PARAPIT.

NORTH ELEVATION LIGHTING PLAN 1
SCALE: 1/8"=1'-0" E7.4



SOUTH ELEVATION SECURITY PLAN 2
SCALE: 1/8"=1'-0" E7.4



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client:
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255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LDON & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERING
3000 STATE ST. SUITE 200
CARMELITE, CA 95008-8004
(805) 889-6200 FAX (805) 889-6219
Web Site: <http://www.lendon.com>



dsa: 03-112306

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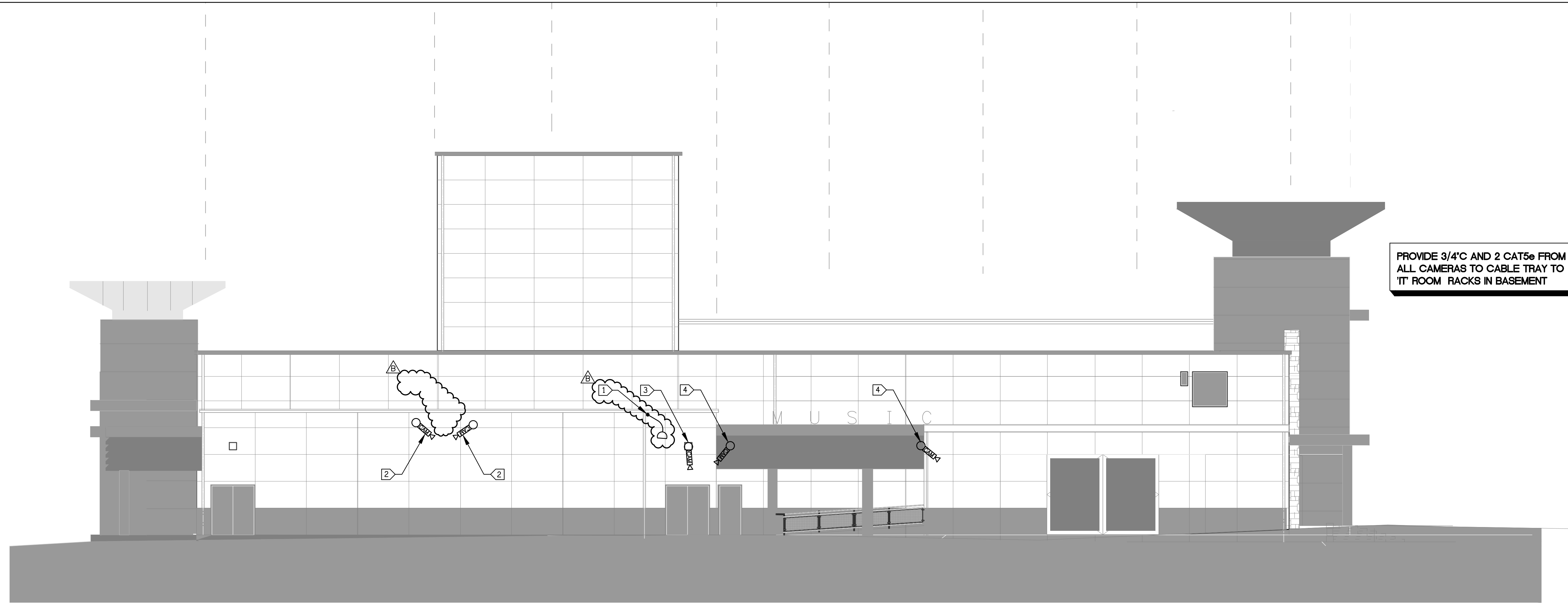
Submissions / Revisions

11/03/09	ADDENDUM 3
03/10/11	-

cad by: _____ chkd by: _____
print date: 09/20/2010
sheet title:

EXTERIOR SECURITY ELEVATION

E7.4

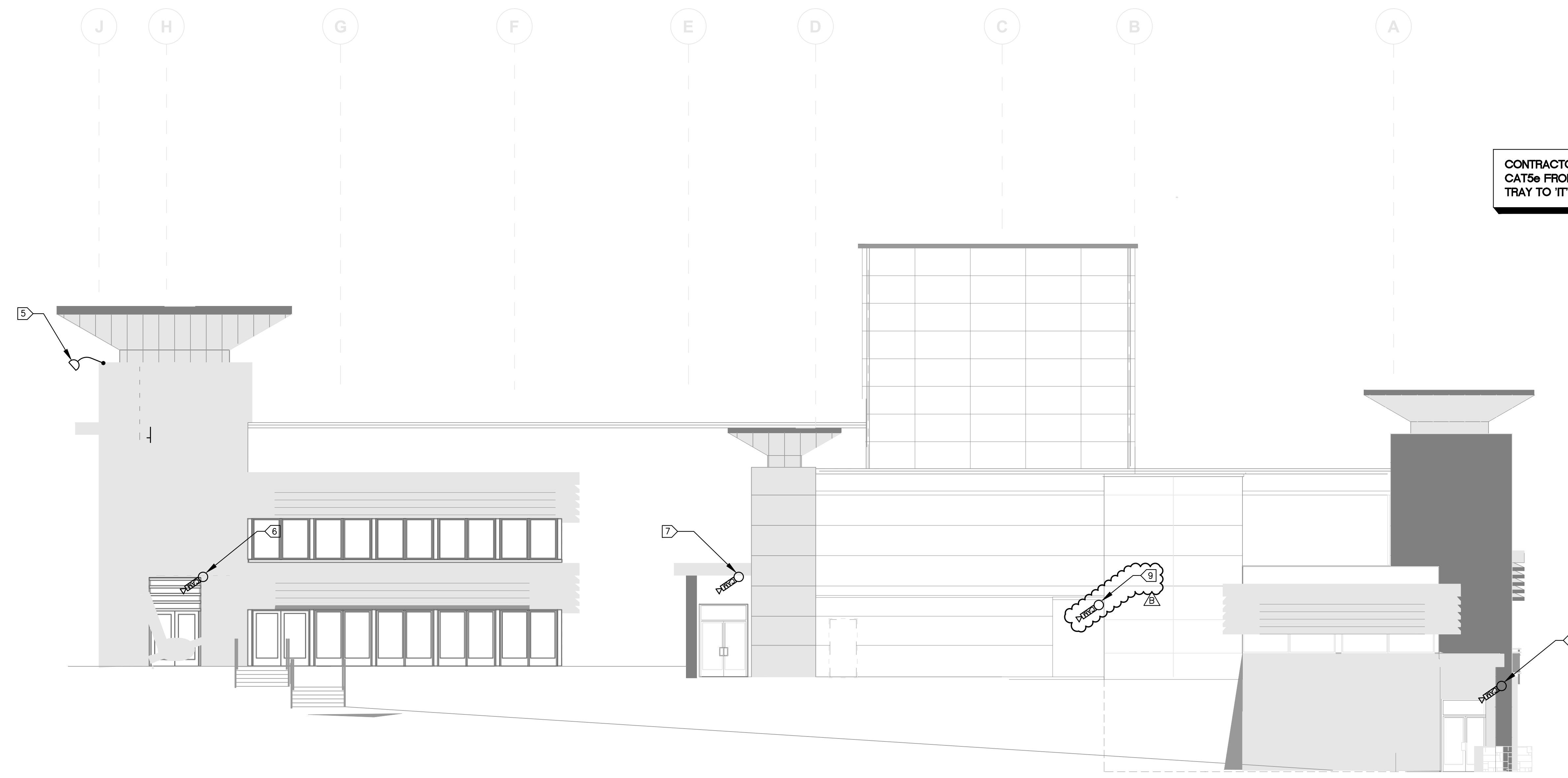


PROVIDE 3/4" AND 2 CAT5e FROM ALL CAMERAS TO CABLE TRAY TO IT ROOM RACKS IN BASEMENT

KEY NOTES:

- 1 PARAPIT MOUNT PTZ CAMERA
- 2 DUAL EXTERIOR FIXED CAMERAS AT COMMON CONNECTION POINT, SERVICING EAST DOORS TO MUSIC.
- 3 INTERIOR CAMERA IN OFFICE/TICKET BOOTH TO MUSIC DEPARTMENT.
- 4 DUAL EXTERIOR FIXED CAMERAS FACING NORTH AND SOUTH DOORS FROM CORRIDORS AND RAMP.
- 5 PTZ EITHER CORNER OF PARAPIT MOUNT ON NORTH STAIRWAY TOWER.
- 6 FIXED CAMERA UNDER OVERHANG SERVICING WEST DOOR TO STAIRWAY.
- 7 FIXED CAMERA UNDER OVERHANG SERVICING NORTH DOOR TO HALL.
- 8 FIXED EXTERIOR CAMERA UNDER OVERHANG SERVICE.
- 9 FIXED EXTERIOR CAMERA AT EDGE OF WALL.

EAST ELEVATION LIGHTING PLAN 1
SCALE: 1/8"-1'-0" E7.5



CONTRACTOR TO PROVIDE 3/4"- 2 CAT5e FROM CAMERA TO CABLE TRAY TO IT ROOM SECURITY RACK

WEST ELEVATION SECURITY PLAN 2
SCALE: 1/8"-1'-0" E7.5



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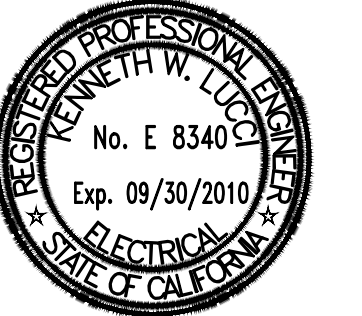
Ventura County Community College District

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LDON & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERING
3850 COSTA MESA BLVD, #401
CARMELITE, CA 95018-8004
(805) 399-6230 FAX (805) 399-6219
Web Site: <http://www.lendon.com>

seal:



dsa: 03-112306

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AC: _____ FLS: _____ SS: _____
DATE: _____

the original size of this drawing is 30" x 42"

Submissions / Revisions

11/03/09	ADDENDUM 3
03/10/11	-

print date: 09/20/2010

sheet title:
EAST AND WEST EXTERIOR SECURITY ELEVATION

E7.5

FIRE ALARM VOLTAGE DROP CALCULATIONS																
LOCATION	PANEL	LOCATION SERVED	CIRCUIT NUMBER	15cd STROBE 0.043	30cd STROBE 0.067	60cd STROBE 0.0984	75cd STROBE 0.123	90cd STROBE 0.1476	110cd STROBE 0.2020	150cd STROBE 0.270	INT.HORN 0.0200	TOTAL CIRCUIT AMPS	WIRE SIZE AWG	DISTANCE IN FEET TO EOL	PERCENT VOLTAGE DROP	REMARKS
BLDG G	FATC1	BASEMENT	B1	9	3			1			5	0.8356	12	337	3.88%	
			B2	3	2			1			4	0.4906	12	375	2.54%	
	FACT2	FIRST FLOOR	F1	3	2			2		2	5	1.1982	10	566	5.88%	
			F2	2							1	0.106	12	330	0.48%	
			F3	3							1	0.459	12	457	2.89%	
			F3A	2			2				2	0.932	12	401	5.15%	
			F4		1				5		1	1.175	10	612	6.23%	
			F4A	5					2		2	0.5502	12	314	2.38%	
		F5	8	3						2	1.205	10	566	5.91%		
	FACT3	SECOND FLOOR	S1	3	1	4					3	0.6496	12	695	6.22%	
			S2	5		5			1		2	0.747	10	644	4.17%	
		TOTALS		43	12	9	2	12	0	8	39					

BATTERY CALCULATIONS			
FACP - LRC			
STANDBY (AMPS)	(AMPS)	NO.	ALARM
.078		(1) FACP	.227
.060		(1) ANN (@CP DG)	.067
.0008		(2) MM (.0004/.007)	.014
.0008		(2) CM (.0004/.007)	.014
.0006		(4) PS (dh) (.0005/.007)	.028
.0036		(9) MP/EMP (MM) (.0004/.007)	.063
.0028		(7) HV (MM MONITOR ONLY) (.0004/.0 07)	.049
.16		(2) DH (.080)	-
.0002		(1) TD (.0002/.007)	.007
		(20) NOTIFICATION APPLIANCES (horns) (SEE VOLTAGE DROP CALCS)	.500
Subtotal			.969
x 24 hrs			(5 min. Alarm) x .0833 hrs.
7.37			.080Ah
x 1.2 (20 hr. batteries)			x 1.2 (20 hr. batt.)
8.85 Ah	T. Supervisory		.0969 T. Alarm
		8.85 Total Supervisory	
		.0969 Total alarm	
		8.95 Ah	
		20 Ah Batteries Provided (Min.)	
		11.05 Ah Spare Capacity (Min.)	

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Page 1 of 1

LISTING No. 3225-1722-0107
CATEGORY: 3225 - FIRE DAMPERS

LISTEE: UNITED ENERTECH CORP. 3005 S. Hickory Street, Chattanooga, TN 37407
Contact: Curtis Jackson (423) 643-2542 Fax (888) 713-3285
Email: cjackson@unitedenertech.com

DESIGN: Models F/S-3V-I, F/S-3V-II, F/S-3V-3-I, F/S-3V-3-II, FD-110-3V, and FDD-110-3V fire dampers. Refer to listee's data sheet for additional detailed product description and operational considerations.

Models	Position	Single Section		Multiple Section		Rating	
		Width	Height	Width	Height		
		Min.	Max.	Min.	Max.		
F/S-3V-I	V	8"	36"	6"	48"	108" 96"	1-1/2 hr.
F/S-3V-II	V	8"	36"	6"	48"	108" 96"	1-1/2 hr.
F/S-3V-3-I	V, H	6"	36"	6"	48"	48" 96"	1-1/2 hr.
F/S-3V-3-II	V, H	6"	36"	6"	48"	72" 96"	3 hr.
FD-110-3V	V	6"	36"	6"	48"	108" 96"	1-1/2 hr.
	H	6"	36"	6"	48"	72" 48"	1-1/2 hr.
FDD-110-3V	V	6"	36"	6"	48"	108" 96"	1-1/2 hr.
	H	6"	36"	6"	48"	72" 96"	1-1/2 hr.
	V, H	6"	36"	6"	48"	72" 96"	3 hr.

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, classification rating, and UL label.

APPROVAL: Listed as 1-1/2 or 3 Hour fire-rated dampers for use in heating, ventilating and air conditioning duct systems passing through fire resistive walls and partitions. Refer to listee's Installation Instruction Manual for details.

03-09-09 bh

This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other

Date Issued: **July 01, 2012** Listing Expires **June 30, 2013**

Authorized By: **JASON DEWITT, Deputy State Fire Marshal**
Fire Engineering Division



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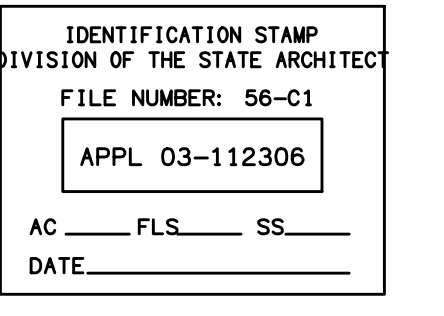
consultant:

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CONSULTING ELECTRICAL ENGINEERS
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CARMELITE, CA 95008-8084
(805) 389-6230 FAX (805) 389-6219
Web Site: <http://www.ldands.com>

seal:



dsa: 03-112306



the original size of this drawing is 30" x 42"

Submissions / Revisions

NO.	DATE	DESCRIPTION
10.23.12	UPDATES	

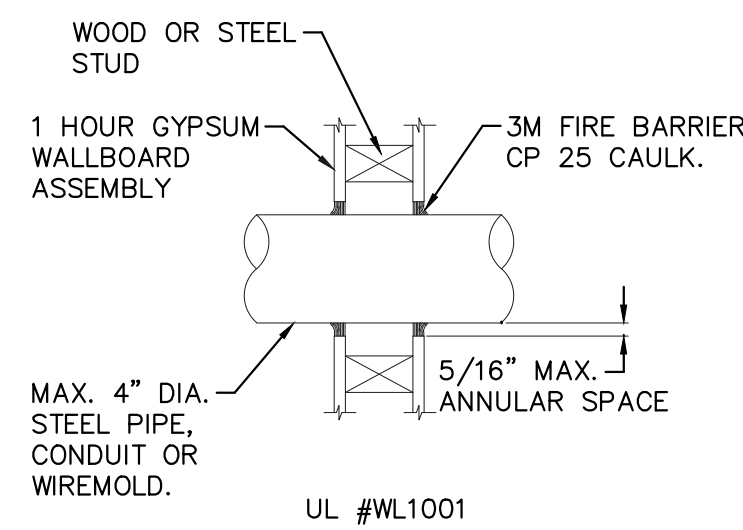
print date: 09/20/2010

sheet title:
FIRE ALARM CALCULATIONS

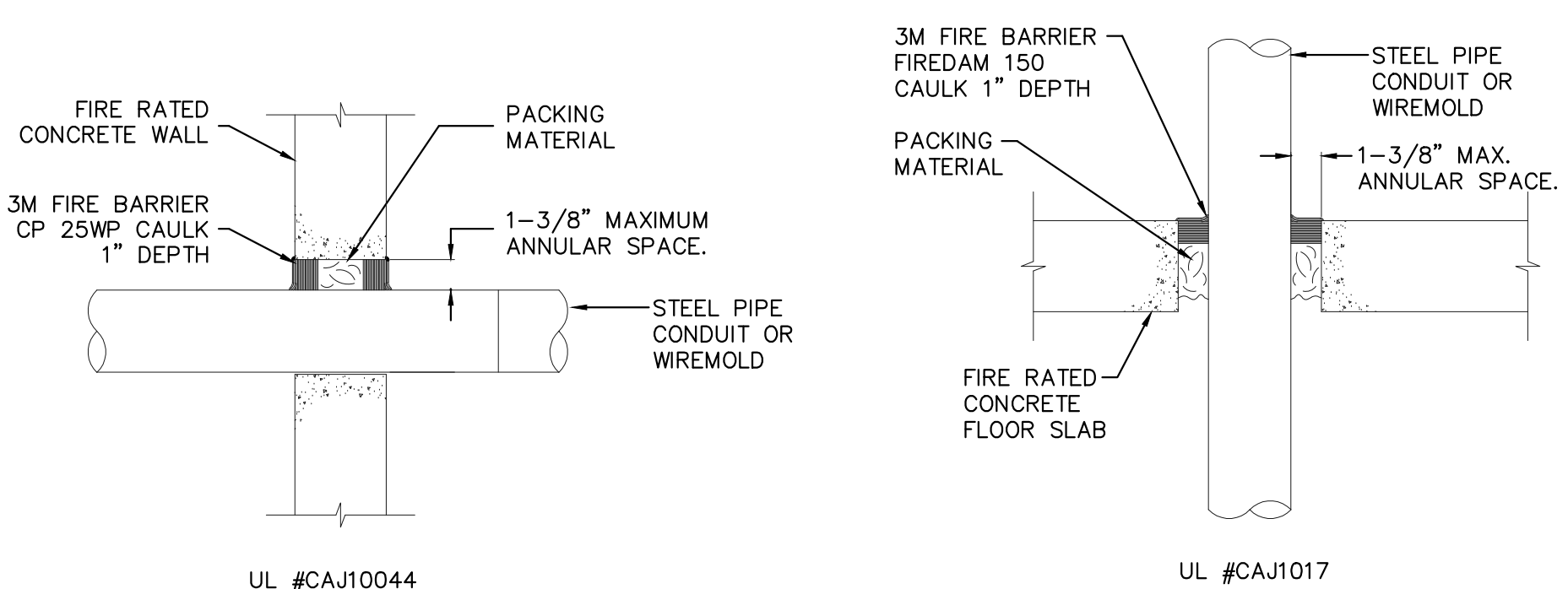
E8.0A

FIRE ALARM EQUIPMENT SCHEDULE

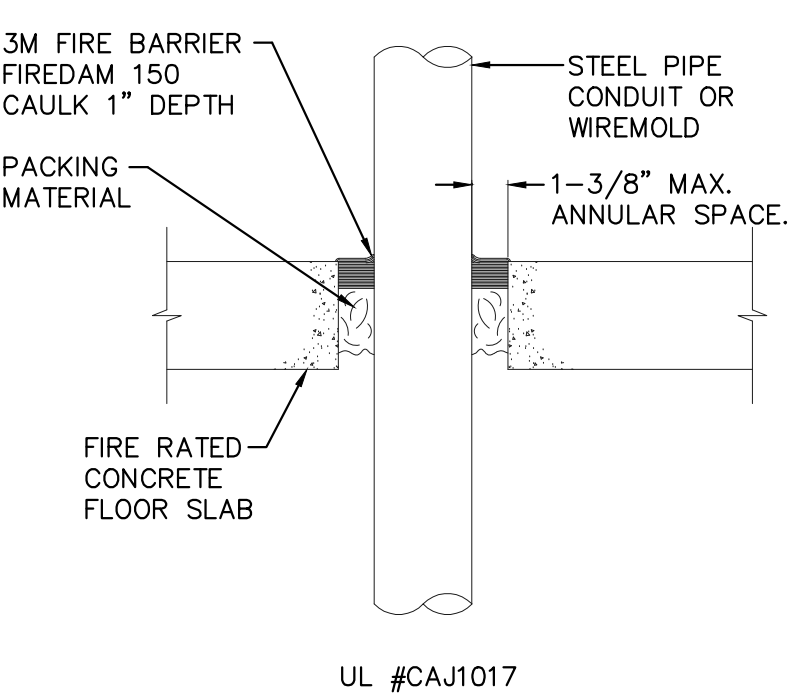
SYMBOL	DEVICE	MFR. & CAT. NO.	NOTES:	REMARKS	CSFM LISTING NO.
[FACP]	FIRE ALARM CONTROL PANEL	FCI 7100	ADDRESSABLE ANALOG W/ BATTERIES, INI-7100, SEE CALC FOR BATTERY		7165-0694:219
[ANN]	REMOTE ANNUNCIATOR	FCI LCD-7100	PROVIDE W.P. ENCLOSURE WHERE MTD OUTSIDE		7300-0694:231
[BC]	BATTERY CABINET	FCI#BC1	W/ BATTERIES SIZED PER CALC.		
[BEAM]	BEAM DETECTOR	72051			7260-1653:168
[SPE]	SIGNAL POWER EXPANDER	FCI SNAC-6	W/7.0AH BATTERIES		7300-0694:230
[DS]	DUCT SMOKE DETECTOR	FCI ADS-RP200	WHERE NEW REQUIRED INTERLOCK W/ EQUIP FOR SHUT DOWN		3240-0694:243
[PHE]	PHOTOELECTRIC SMOKE DETECTOR	FCI ASD-PL W/ADB.FL	ADDR. SMOKE DET. W/BASE, LOW PROFILE PHOTOELECTRIC		7300-0694:194 7172-0694:193
[THER]	THERMAL DETECTOR	FCI LAD-L	ADDR. THERMAL DETECTOR		7270-0694:221 7300-0694:194
[CM]	CONTROL MODULE	FCI AOM-2R FCI AOM-2S	ADDR. OUTPUT MODULE		7300-0694:240
[MM]	MONITOR MODULE	FCI AMM.2	ADDR. MONITOR MODULE		7300-0694:178
[MAN]	MANUAL PULL STATION	RSG RMS-1PKL	ADDR. MODULE ON MANUAL STATION		7150-1039:101 7300-0694:178
[FX]	EXTERIOR MANUAL PULL STATION	RSG RMS-1PKLWP	ADDR. MODULE ON WEATHERPROOF STATION		7150-1039:101 7300-0694:178
[EH]	EXTERIOR HORN	SYSTEM SENSOR MA12/24D WBB	WBB,W.P. BACKBOX (.035)		7135-1209:173
[IH]	INTERIOR HORN CEILING MT.	SYSTEM SENSOR H12/24	FIELD SELECTABLE HORN OPTIONS (.025A) TEMPORAL 3 CODE		7135-1209:173
[HS]	INTERIOR HORN STROBE 15 CANDELA (Cd) WALL MT.	SYSTEM SENSOR P2415	FIELD SELECTABLE HORN OPTIONS (.025A) TEMPORAL 3 CODE		7135-1209:174
[HS]	INTERIOR HORN STROBE 30 CANDELA (Cd) WALL MT.	SYSTEM SENSOR P2430	FIELD SELECTABLE HORN OPTIONS (.071A) TEMPORAL 3 CODE		7135-1209:174
[HS]	INTERIOR HORN STROBE 75 CANDELA (Cd) WALL MT.	SYSTEM SENSOR P2475	FIELD SELECTABLE HORN OPTIONS (.071A) TEMPORAL 3 CODE		7135-1209:174
[HS]	INTERIOR HORN STROBE 110 CANDELA (Cd) WALL MT.	SYSTEM SENSOR P24110	FIELD SELECTABLE HORN OPTIONS (.071A) TEMPORAL 3 CODE		7135-1209:174
[IS]	INTERIOR WALL MTD. STROBE 15 CANDELA (Cd)	SYSTEM SENSOR P2415	15 cd (.043A)		7135-1209:174
[IS]	INTERIOR WALL MTD. STROBE 30 CANDELA (Cd)	SYSTEM SENSOR P2430	30 cd (.067A)		7135-1209:174
[IS]	INTERIOR WALL MTD. STROBE 75 CANDELA (Cd)	SYSTEM SENSOR P2475	75 cd (.123A)		7135-1209:174
[IS]	INTERIOR WALL MTD. STROBE 110 CANDELA (Cd)	SYSTEM SENSOR P24110	110 cd (.140A)		7135-1209:174
[IS]	INTERIOR STROBE CEILING MT. 15 Cd	SYSTEM SENSOR SC2415W	WHITE .048A		7135-1209:201
[IS]	INTERIOR STROBE CEILING MT. 30 Cd	SYSTEM SENSOR SC2430W	WHITE .068A		7135-1209:201
[IS]	INTERIOR STROBE CEILING MT. 75 Cd	SYSTEM SENSOR SC2475W	WHITE .127A		7135-1209:201
[IS]	INTERIOR STROBE CEILING MT. 95 Cd	SYSTEM SENSOR SC2495W	WHITE .153A		7135-1209:201
[IS]	INTERIOR HORN STROBE CEILING MT. 15 Cd	SYSTEM SENSOR P2415W	WHITE .048W		7135-1209:204
[IS]	INTERIOR HORN STROBE CEILING MT. 30 Cd	SYSTEM SENSOR P2430W	WHITE .124A		7135-1209:204
[IS]	INTERIOR HORN STROBE CEILING MT. 75 Cd	SYSTEM SENSOR P2475W	WHITE .128A		7135-1209:204
[IS]	INTERIOR HORN STROBE CEILING MT. 95 Cd	SYSTEM SENSOR P2495W	WHITE .153A		7135-1209:204
[B]	WATER FLOW BELL	SYSTEM SENSOR SSM-24-10			7135-1653:125
[WS]	WATERFLOW SWITCH	SYSTEM SENSOR WFD-60			7770-1653:114
[TS]	TAMPER SWITCH	SYSTEM SENSOR PIBV2			7770-1209:149
[PS]	PIV SWITCH	SYSTEM SENSOR PIBV2			7770-1209:149



PENETRATION THRU GYPSUM BOARD WALL
NO SCALE



PENETRATION THRU CONCRETE WALL
NO SCALE



PENETRATION THRU CONCRETE FLOOR
NO SCALE

SYSTEM NO. WL1001 (FORMERLY SYSTEM NO. 147) F RATINGS - 1, 2, 3, AND 4 HR (SEE ITEMS 2 AND 3) T RATINGS - 0, 1, 2, 3, AND 4 HR (SEE ITEM 3) L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT (SEE ITEM 3) L RATING AT 400 F - LESS THAN 1 CFM/SQ FT (SEE ITEM 3)

- WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE RATED GYPSUM WALL BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX. 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED IN 18 IN. OC W/IT NOM 2 BY 4 IN. LUMBER AND PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-8/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. CC.
 - WALLBOARD, GYPSUM - NOM 1/2 OR 5/8 IN THICK , 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD RYPs, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY . MAX DIAM OF OPENING IS 13-1/2 IN.
- FILL, VOID OR CAVITY MATERIAL - CAULK - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4 IN. DIAM BOARD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESSES FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABLED BELOW:

MAX PIPE OR CONDUIT DIAM, IN	ANULAR SPACE IN	F RATING HR	T RATING HR
1	0 TO 3/16	1 OR 2	0 + 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

+ WHEN COPPER PIPE IS USED , T RATING IS 0 NOM. MINNESOTA MINING & MFG. CO. - TYPES CP-25 S/L, CP-25 N/8 . CP-25 WS, CP-25 WS + (NOTE: L RATINGS APPLY WHEN TYPE CP-25 WS+ CAULK IS USED.)

FIRE ALARM WIRE SCHEDULE

DESIGNATION	WIRE/CABLE
A	2#12 STRANDED CU. (HORN)-ORANGE AND BROWN
D	#18 TWISTED SHIELDED PAIR WEST PENN #SL294 (BROWN TAPE) SUITABLE FOR WET LOCATION (PULLSTATION/DETECTOR)
P	2#12 STRANDED (POWER)-RED AND BLACK
V	2#12 STRANDED (STROBE)-PURPLE AND BROWN

PROJECT NOTES

GENERAL NOTES

- ALL WIRE SHALL BE IN CONDUIT.
- ANY CHANGES IN THE WIRING SHALL BE VERIFIED BY SIMPLEX.
- MANUAL PULL STATIONS TO BE MOUNTED AT 48 IN. ABOVE FLOOR SURFACE TO THE CENTER OF THE STATION. (DETAIL 1)
- MOUNT AUDIO VISUAL 80 IN. ABOVE FINISHED FLOOR TO THE BOTTOM OF THE LIGHT OR 6" FROM BELOW CEILING WHICH EVER IS LOWEST. (DETAIL 2)
- MAINTAIN WIRING COLOR CODES.
- ALL WIRING TO BE AS CALLED FOR IN N.E.C. ARTICLE 760.
- IDENTIFY THE FIRE ALARM CIRCUIT AT THE ELECTRICAL PANEL IN RED, PROVIDE A BREAKER LOCKON DEVICE.
- DEVICE TYPES AND LOCATIONS ARE SHOWN AS CALLED FOR ON THE BID DOCUMENTS.

PROJECT DATA

PART 1 2007 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 CCR	PART 10 2007 CALIFORNIA CODE FOR BUILDING CONSERVATION, TITLE 24 CCR AMENDMENTS (2006 UNIFORM CODE FOR BUILDING CONSERVATION OF THE ICRB, W/ AMENDMENTS)
PART 2 2007 CALIFORNIA BUILDING CODE, TITLE 24 CCR (2006 IBC)	PART 12 2007 CALIFORNIA REFERENCE STANDARDS CODE, TITLE 24 CCR
PART 3 2007 CALIFORNIA ELECTRICAL CODE, TITLE 24 CCR (2005 NATIONAL ELECTRICAL CODE & 2007 CA AMENDMENTS)	PART 15 2007 CALIFORNIA PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
PART 4 2007 CALIFORNIA MECHANICAL CODE, TITLE 24 CCR (2005 UNIFORM MECHANICAL CODE & 2007 CA AMENDMENTS)	NFPA 13 AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED), 2002 EDITION
PART 5 2007 CALIFORNIA PLUMBING CODE, TITLE 24 CCR (2005 UNIFORM PLUMBING CODE & 2007 CA AMENDMENTS)	NFPA 14 STANDPIPE SYSTEMS, 2003 EDITION
PART 6 2007 CALIFORNIA ENERGY CODE, TITLE 24 CCR	NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS, 2002 EDITION
PART 7 2007 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE, TITLE 24 CCR	NFPA 17A WET CHEMICAL EXTINGUISHING SYSTEMS, 2002 EDITION
PART 8 2007 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 CCR	NFPA 20 STATIONARY PUMPS, 2003 EDITION
PART 9 2007 CALIFORNIA FIRE CODE, TITLE 24 CCR (2006 UNIFORM FIRE CODE & 2007 CA AMENDMENTS)	NFPA 24 PRIVATE FIRE SERVICE MAINS (INCLUDED IN 1999 NFPA 13) 2002 EDITION
	NFPA 72 NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED), 2002 EDITION
	NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS, 2006 EDITION
	NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2004 EDITION
	REFERENCE CODE SECTION FOR NFPA STANDARDS-2007 CBC CHAPTER 35

BUILDING CLASSIFICATION: A. OCCUPANCY GROUP: I-2
B. CONSTRUCTION TYPE: V-1 HOUR NON-SPRINKLERED

AGENCIES: A. COUNTY OF VENTURA FIRE DEPARTMENT

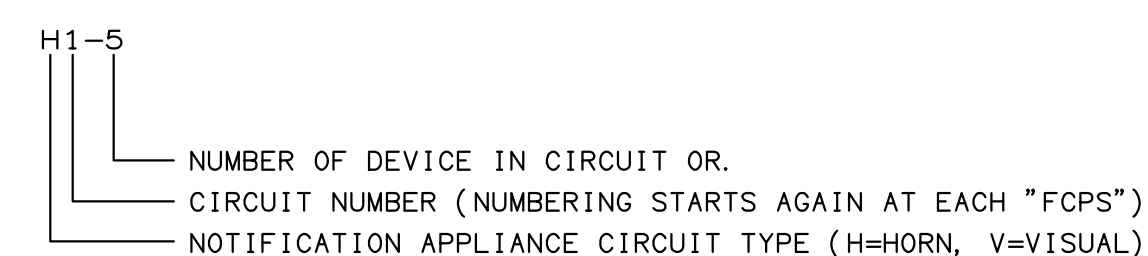
SCOPE OF WORK

PROVIDE A NEW ADDRESSABLE FIRE ALARM SYSTEM, AUTOMATIC TYPE

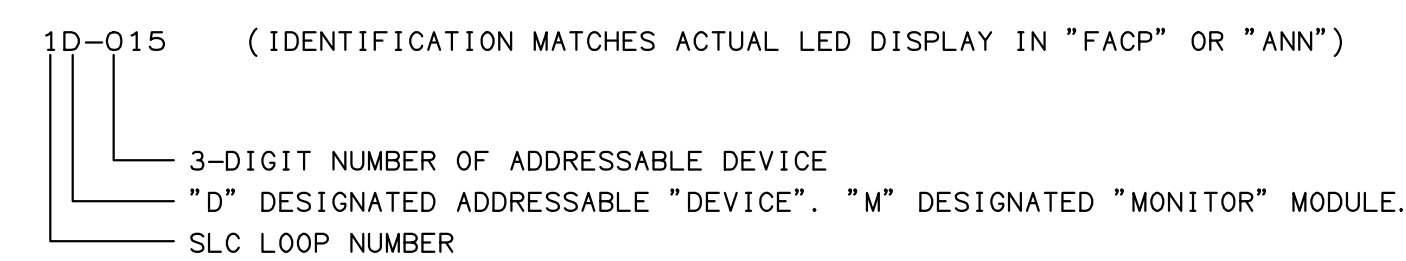
FIRE ALARM ZONE SCHEDULE

THE NEW FIRE ALARM SYSTEM IS A FIRE CONTROL INSTRUMENTS 7200 SERIES ADDRESSABLE TYPE. EACH INITIATING DEVICE IS ANNUNCIATED AS A UNIQUE ADDRESS OR ZONE AT THE PANEL AND ANNUNCIATOR.

FIRE ALARM N.A.C. DEVICE NUMBERING KEY



FIRE ALARM ADDRESSABLE DEVICE IDENTIFICATION KEY



F.A. RACEWAY SIZING

MINIMUM CONDUIT SIZE SHALL BE 3/4" DIAMETER AND SHALL NOT EXCEED 40% FILL.

REQUIRED NOTES

THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRIC CODE.

INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE CALIFORNIA DEPT. OF THE STATE ARCHITECT'S FIRE MARSHAL.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE FIRE MARSHAL, OWNER AND ENGINEER OF RECORD.

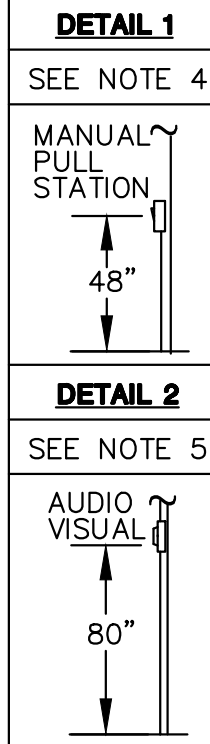
A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.

ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.

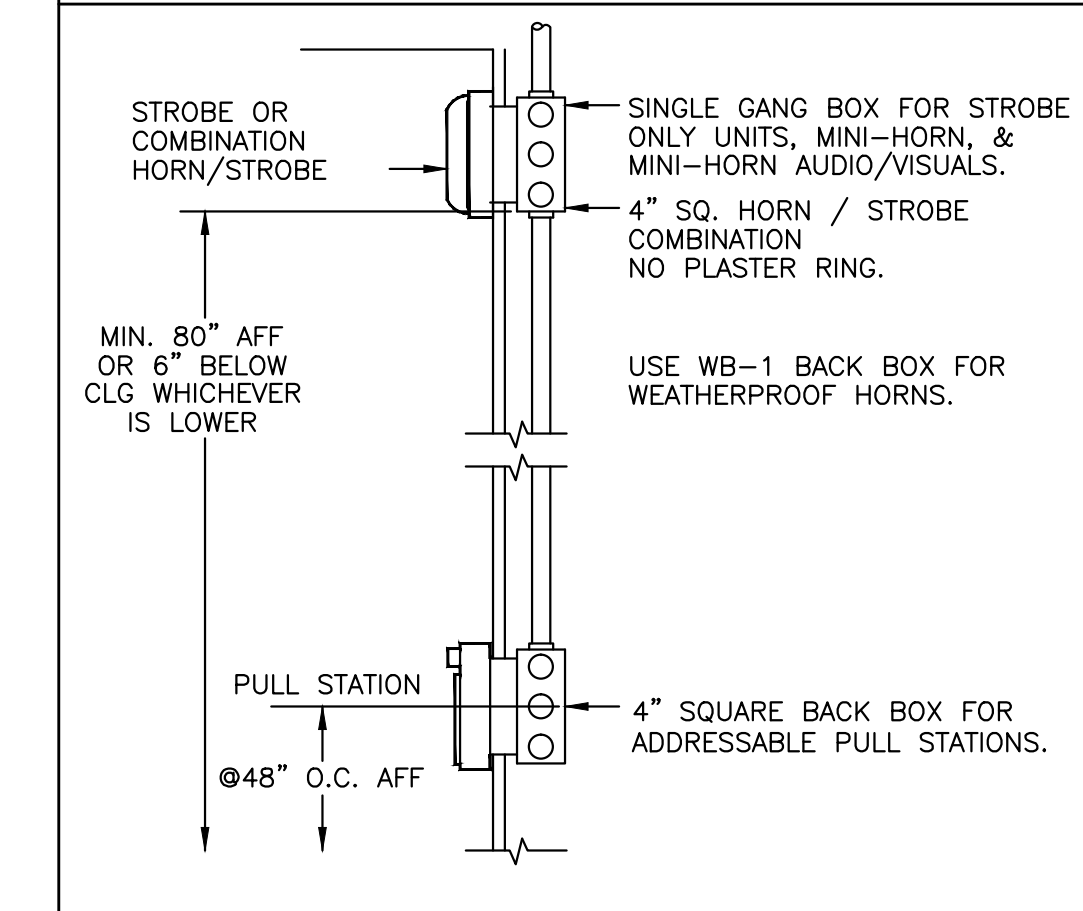
A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES SHALL BE APPROVED BY THE FIRE MARSHAL.

ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE, OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.

A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE FIRE MARSHAL UPON COMPLETION OF THE INSTALLATION.



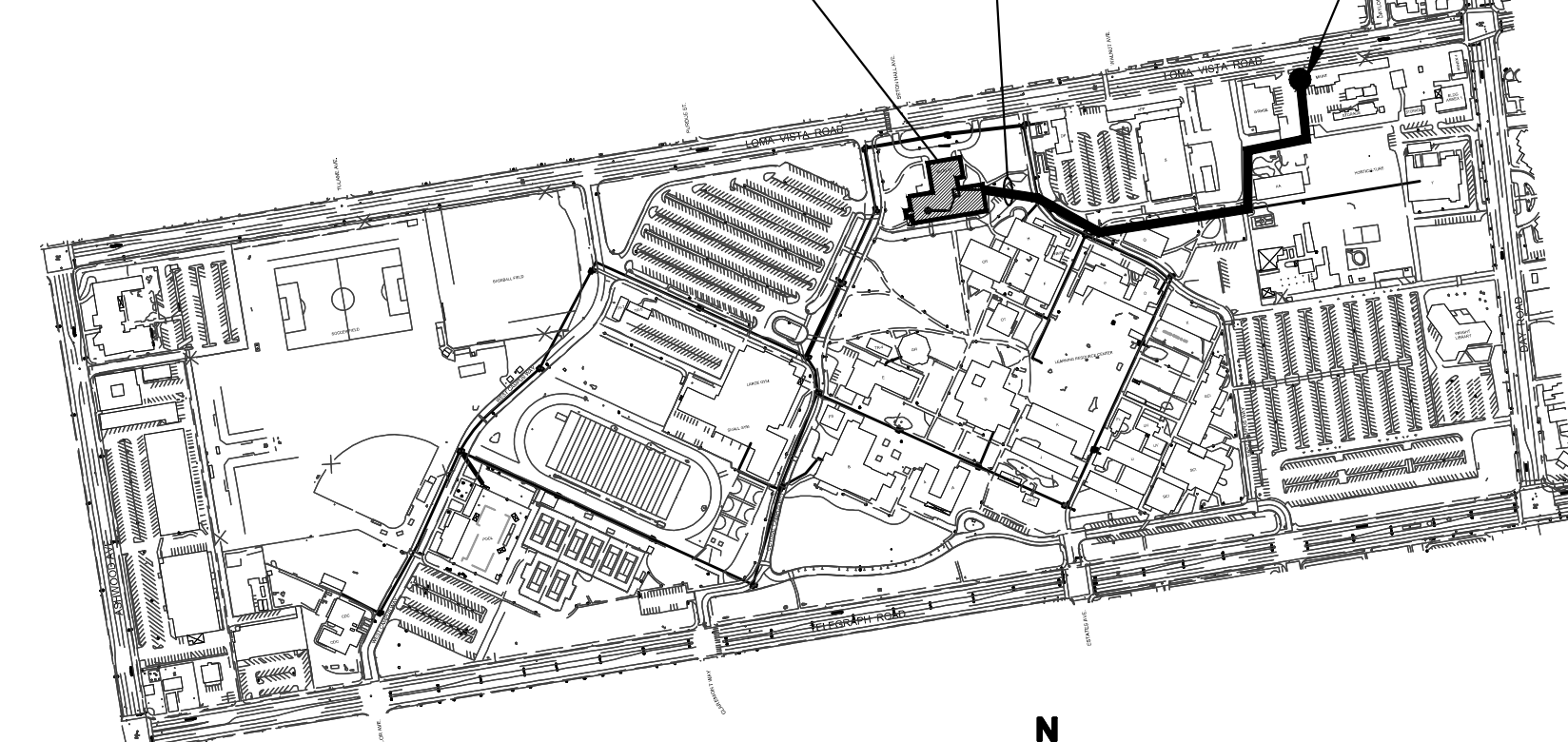
MOUNTING HEIGHT DETAIL



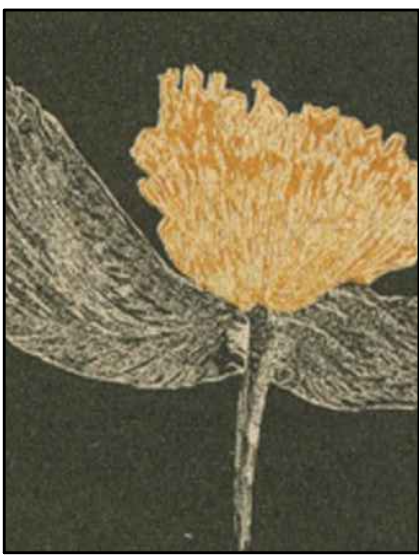
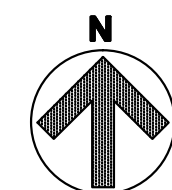
SEQUENCE OF OPERATION

ACTION	THROUGHOUT BUILDINGS SOUND GENERAL ALARM	SOUND TROUBLE BUZZER	ACTIVATE ADDRESSABLE MODULE FOR MONITORING	ANNUNCIATE AT PANEL	SHUT DOWN HVAC UNITS	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	SPRINKLER BELL ACTIVATE	ACTIVE REMOTE POWER SUPPLY PANEL (FCPS)	RELAY FOR SECURITY SYSTEM DEALER ACTIVATE	RECALL ELEVATOR TO PRIMARY RECALL FLOOR	RECALL ELEVATOR TO ALTERNATE RECALL FLOOR	CLOSE FIRE/SMOKE DAMPERS	DROP HORN BELL TONES FROM P. A. SYSTEM
MANUAL PULL STATION	●	●	●	●	●	●	●	●	●	●	●	●	●	●
INDICATING CIRCUIT FAILURE	●		●	●	●									
INITIATING CIRCUIT FAILURE			●	●	●									
AC / BATTERY FAILURE			●	●	●									
FIRE ALARM SYSTEM LOW BATTERY			●	●	●									
SPRINKLER WATER FLOW SW.	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SPRINKLER TAMPER SWITCH	●		●	●	●	●	●	●	●	●	●	●	●	●
SMOKE DETECTORS 3RD FLOOR	●		●	●	●									
SMOKE DETECTORS 2ND FLOOR	●		●	●	●									
SMOKE DETECTORS 1ST FLOOR	●		●	●	●									
SMOKE DETECTORS ELEVATOR LOBBY	●		●	●	●									
HEAT DETECTORS			●	●	●									
DUCT SMOKE DETECTORS			●	●	●									
PROJECTED BEAM DETECTOR	●		●	●	●									
ISOLATOR LINE TROUBLE	●	●	●	●	●									

BUILDING 'G' PROJECT AREA



KEY PLAN



DAVID BURY & COMPANY ARCHITECTS LTD.

215 Church Rd.
Ojai, CA 93023
T: 805.646.4817
F: 805.646.3924

project:

Ventura College Theater, Bldg G Modernization

4667 Telegraph Rd.
Ventura, CA 93003

client:

Ventura County Community College District

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

DRAGAGE ASSOCIATES INC.
CORPORATE HEADQUARTERS
300 SOUTH WALDEN, 6TH FLOOR
CARLSBAD, CA 92008-8004
(805) 889-6100 FAX (805) 889-6109
Web Site: <http://www.dragage.com>

seal:



dsa: 03-112306

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 58-C1
APPL. 03-112306
AC: _____ FLS: _____ SS: _____
DATE: _____

the original size of this drawing is 30" x 42"

Submissions / Revisions

NO.	DATE	REVISION

cad by: _____ chkd by: _____
















print date: 09/20/2010

sheet title: FIRE ALARM

COVER SHEET

E8.0

FIRE ALARM EQUIPMENT SCHEDULE

QTY	SYMBOL	DEVICE
		FIRE ALARM CONTROL PANEL
		ANNUNCIATOR PANEL
		PHOTOELECTRIC SMOKE DETECTOR
		INTERIOR MANUAL PULL STATION
		ADDRESSABLE THERMAL DETECTOR
		ADDRESSABLE OUTPUT MODULE
		SIGNAL POWER EXPANDER
		INTERIOR STROKE (1R, 3R, 7S, 110C)
		HORN STROKE (1R, 3R, 7S, 110C)
		ALARM HORN
		WATER FLOW SWITCH
		VALVE TAMPER SWITCH
		DRY PIPE DETECTOR
		ADDRESSABLE HOOKER MODULE
		DOOR HOLD-OPEN

WP : WEATHERPROOF F.B.O : FURNISHED BY OTHER VL : VERIFY LOCATION O : GILLING MOUNT
 F.C.I : FIRE CONTROL INSTRUMENTS
 10" SPRINKLER BELL (F.B.O) JUNCTION BOX (F.B.O)

MAXIMUM NUMBER OF CONDUCTORS IN TRADE SIZES OF CONDUIT

THIN WALL	CONDUIT TRADE SIZE (INCHES)					
	1/2	3/4	1	1-1/4	1-1/2	2
10	18	26	32	48	64	
16	10	16	20	31	40	
10	6	11	12	20	24	

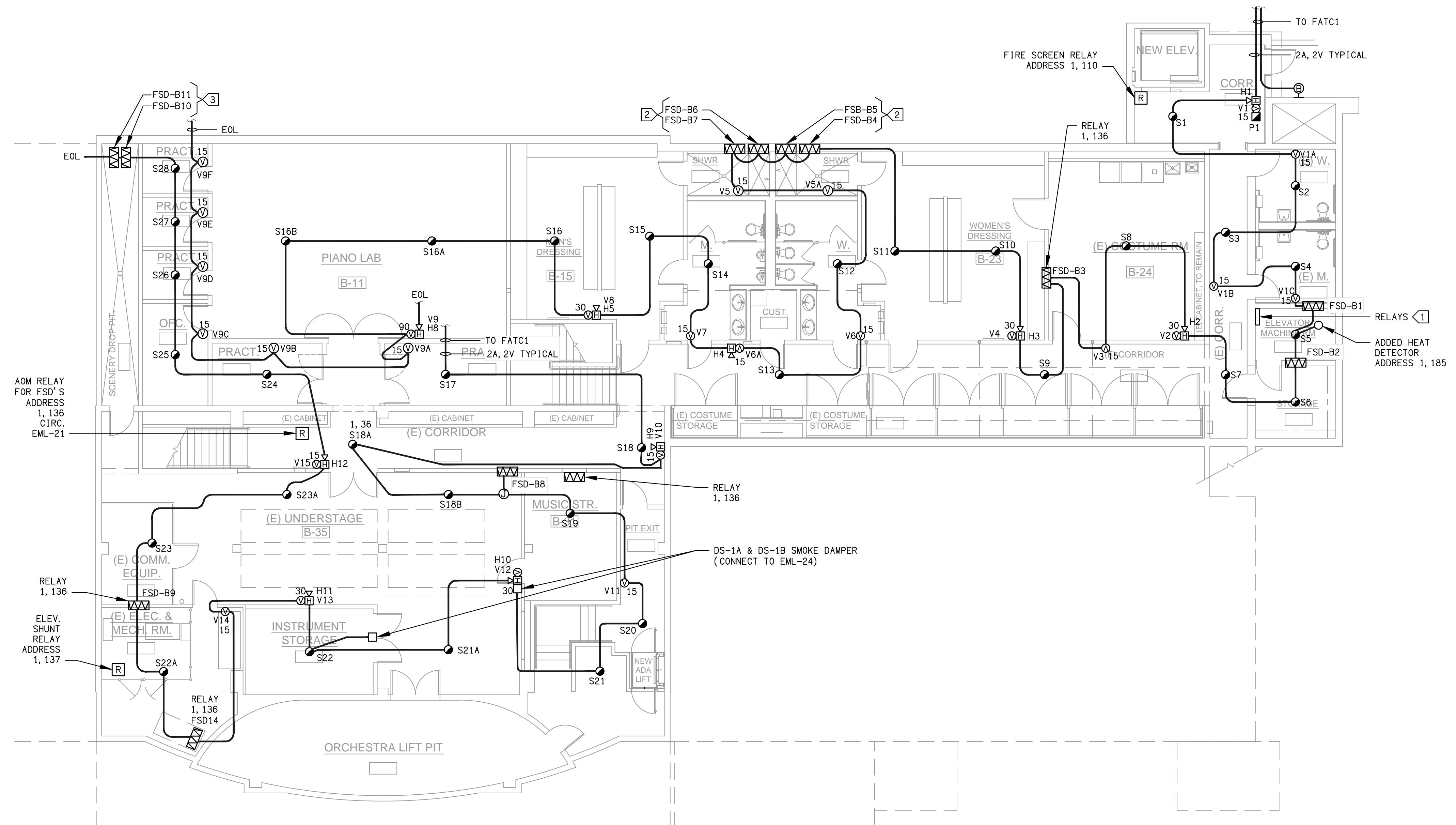
WIRING SCHEDULE

WIRE TAG DESIGNATION	WIRE IN CONDUIT
INCLUDING DEVICE LEADS	
A	2 CONDUCTORS #14 AWG THIN (1) YELLOW (2) BLUE
24VOLT DEVICE POWER	
P	2 CONDUCTORS #14 AWG THIN (1) ORANGE (1) BROWN
NOTIFICATION APPLIANCE CIRCUITS	
V	2 CONDUCTORS #12 AWG THIN (1) RED - (1) BLACK
ZV	4 CONDUCTORS #12 AWG THIN (2) RED - (2) BLACK
REMOTE ANNUNCIATOR	
C	2 CONDUCTORS #18 TWISTED SHIELDED PAIR

- SHEET NOTES:**
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
 - 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL COMMUNICATION CABLING PER CABLE MANUFACTURERS RECOMMENDATIONS.
 - MAXIMUM 180 DEGREE OF BEND BETWEEN PULL POINTS.
 - RUN COMMUNICATION CABLING IN CABLE TRAY TO MAXIMUM EXTENT POSSIBLE, WHERE CABLING IS NOT IN CABLE TRAY, CABLE SHALL BE IN CONDUIT.
 - UNIQUELY LABEL BOTH ENDS OF ALL CABLING.

- KEY NOTES:**
- ELEVATOR PRIMARY
ADD 1, 111
ELEVATOR ALTERNATE
ADD 1, 112
ELEVATOR BATTERY LOWERING
ADD 1, 113
 - FSD RELAY 3, 159
ON 1ST FLOOR
ROOM 116
SOUTH ADDRESS
 - FSD RELAY
1, 136

SEE RISER DIAGRAM FOR ALL CABLING TYPES



BASEMENT FIRE ALARM PLAN
SCALE: 1/8"=1' **E8.1**



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client:

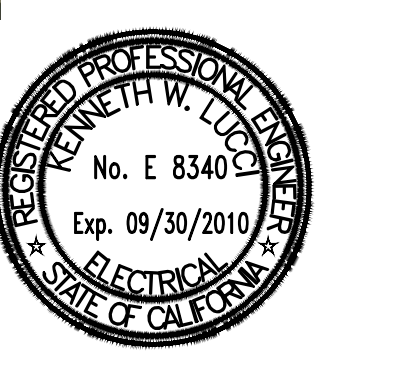
Ventura County Community College District

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

LDON & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
500 COSTA MESA BLVD.
CARMELITA, CA 93917-0004
(805) 889-6220 FAX (805) 889-6229
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seal:



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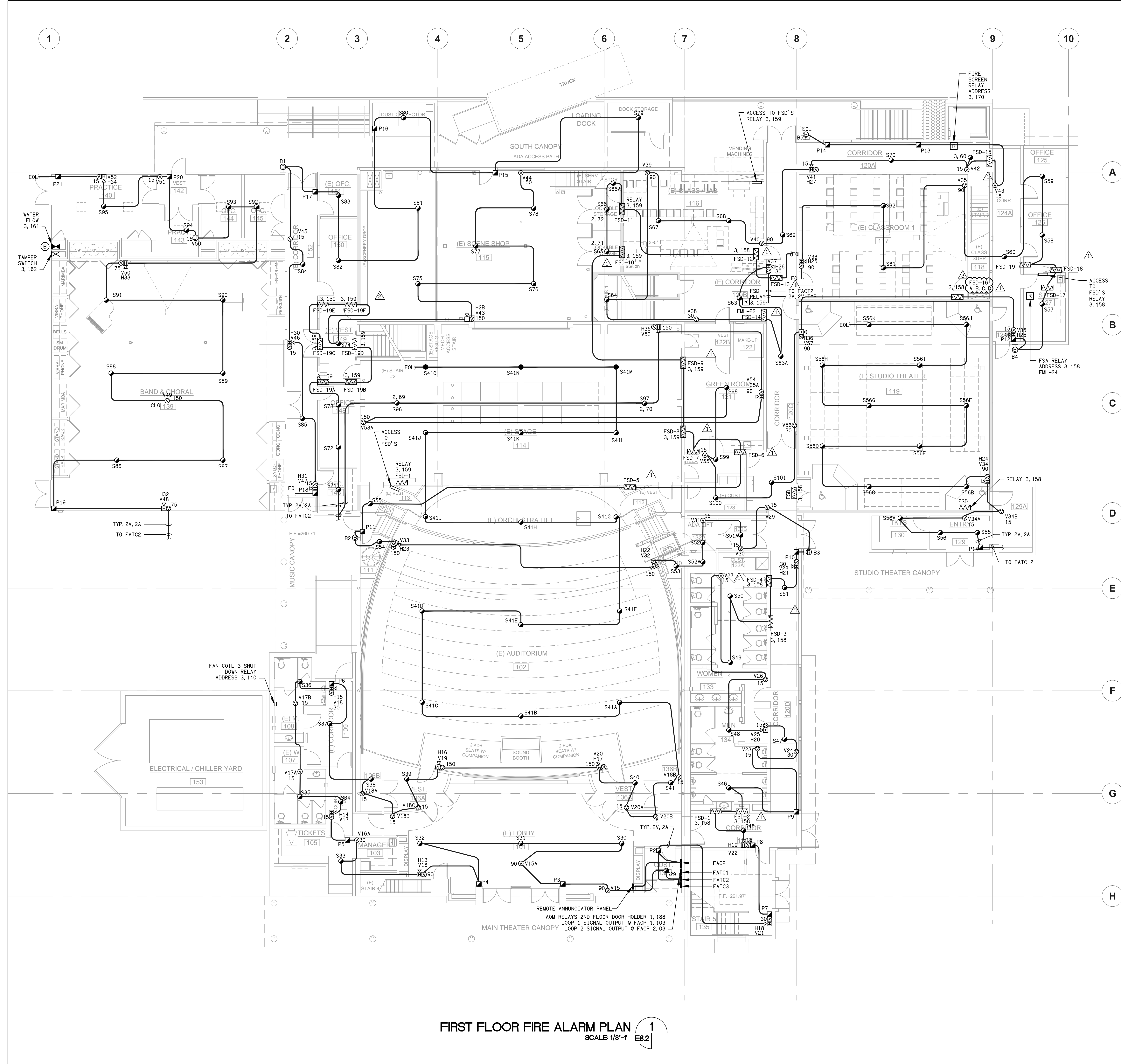
the original size of this drawing is 30" x 42"
Submissions / Revisions

NO.	DATE	DESCRIPTION

print date: 09/20/2010

sheet title:
BASEMENT FIRE ALARM PLAN

E8.1



- SHEET NOTES:**
1. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
 2. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
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 6. UNIQUELY LABEL BOTH ENDS OF ALL CABLING.

FIRE ALARM EQUIPMENT SCHEDULE

QTY	SYMBOL	DEVICE
	[Symbol]	FIRE ALARM CONTROL PANEL
	[Symbol]	ANNUNCIATOR PANEL
	[Symbol]	PHOTOELECTRIC SMOKE DETECTOR
	[Symbol]	INTERIOR MANUAL PULL STATION
	[Symbol]	ADDRESSABLE THERMAL DETECTOR
	[Symbol]	ADDRESSABLE OUTPUT MODULE
	[Symbol]	SIGNAL POWER EXPANDER
	[Symbol]	INTERIOR STROBE (15, 30, 75, 110cd)
	[Symbol]	HORN STROBE (15, 30, 75, 110cd)
	[Symbol]	ALARM HORN
	[Symbol]	WATER FLOW SWITCH
	[Symbol]	VAULT TAMPER SWITCH
	[Symbol]	NOT SMOKE DETECTOR
	[Symbol]	ADDRESSABLE MONITOR MODULE
	[Symbol]	DOOR HOLDER

WP : WEATHERPROOF F.B.O : FURNISHED BY OTHER VL : VERIFY LOCATION C : CEILING MOUNT
 F.C.I : FIRE CONTROL INSTRUMENTS
 () : 10" SPRINKLER BELL (F.B.O) [] : JUNCTION BOX (F.B.O)

WIRING SCHEDULE

WIRE TAG DESIGNATION	WIRE IN CONDUIT
INITIATING DEVICE LOOP	
A	2 CONDUCTORS #14 AWG THWN (1) YELLOW, (1) BLUE
24VDC DEVICE POWER	
P	2 CONDUCTORS #14 AWG THWN (1) ORANGE, (1) BROWN
NOTIFICATION APPLIANCE CIRCUITS	
V	2 CONDUCTORS #12 AWG THWN (1) RED - (1) BLACK
2V	4 CONDUCTORS #12 AWG THWN (2) RED - (2) BLACK
REMOTE ANNUNCIATOR	
C	2 CONDUCTORS #18 TWISTED SHIELDED PAIR

MAXIMUM NUMBER OF CONDUCTORS IN TRADE SIZES OF CONDUIT

TRADE SIZE	CONDUIT TRADE SIZE (INCHES)					
	1/2	3/4	1	1-1/4	1-1/2	2
12	15	18	24	29	36	44
18	18	24	30	36	44	54
24	24	30	36	44	54	66



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 580 OXLEY WALKWAY, #401
 CARLSBAD, CA 92008-8004
 (805) 939-6200 FAX (805) 939-6299
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dsa: 03-112306

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Submissions / Revisions

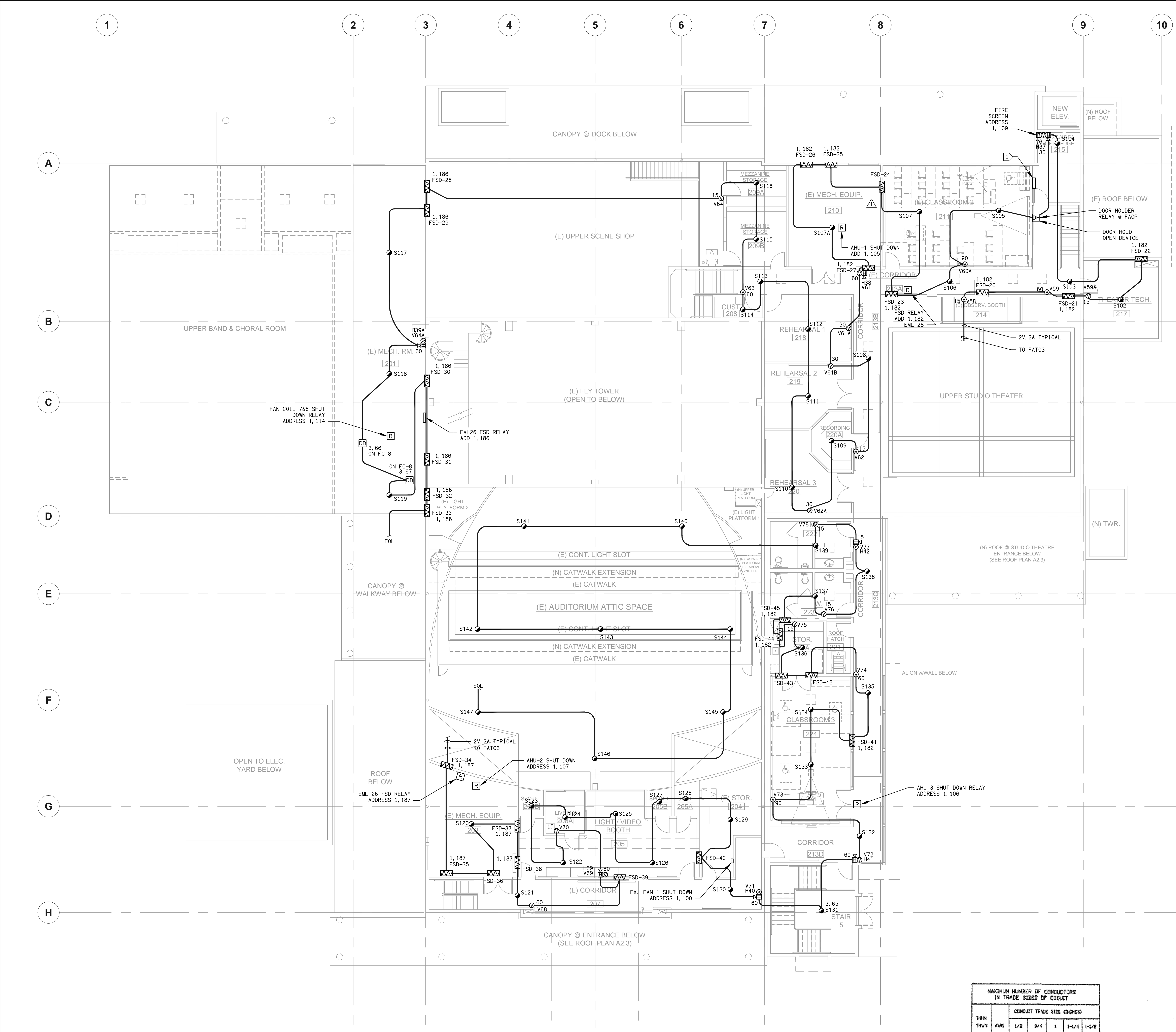
06/21/10	FIRE ALARM UPDATE
06/28/10	FIRE ALARM UPDATE
09/20/10	FIRE ALARM UPDATE

print date: 09/20/2010
 sheet title:
FIRST FLOOR FIRE ALARM PLAN

FOR EACH FSD - CONNECT TO EML-24

E8.2

FIRST FLOOR FIRE ALARM PLAN
 SCALE: 1/8"=1' E8.2



SHEET NOTES:

1. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
2. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL COMMUNICATION CABLING PER CABLE MANUFACTURERS RECOMMENDATIONS.
4. MAXIMUM 180 DEGREE OF BEND BETWEEN PULL POINTS.
5. RUN COMMUNICATION CABLING IN CABLE TRAY TO MAXIMUM EXTENT POSSIBLE. WHERE CABLING IS NOT IN CABLE TRAY, CABLE SHALL BE IN CONDUIT.
6. UNIQUELY LABEL BOTH ENDS OF ALL CABLING.

KEY NOTES:

- 1 PROVIDE IN AREA OF REFUGE THE FOLLOWING:
1. TWO WAY COMMUNICATION BETWEEN THE AREA OF REFUGE AND MANAGER'S OFFICE (VISUAL AND AUDIBLE)
 2. PROVIDE TWO WAY COMMUNICATION VIA PUBLIC PHONE SYSTEM (VISUAL AND AUDIBLE)
 3. INSTRUCTIONS, IN AREAS OF REFUGE THAT HAVE A TWO WAY EMERGENCY COMMUNICATIONS SYSTEM, INSTRUCTIONS ON THE USE OF THE AREA UNDER EMERGENCY CONDITIONS SHALL BE POSTED ADJOINING THE COMMUNICATIONS SYSTEM. INSTRUCTIONS SHALL INCLUDE ALL OF THE FOLLOWING AND SHALL COMPLY WITH SECTION 1117 B. 5. 1. ITEM 2:
 - A. DIRECTIONS TO FIND OTHER MEANS OF EGRESS
 - B. PERSONS ABLE TO USE THE EXIT STAIRWAY DO SO AS SOON AS POSSIBLE, UNLESS THEY ARE ASSISTING OTHERS.
 - C. INFORMATION ON PLANNED AVAILABILITY OF ASSISTANCE IN THE USE OF STAIRS OR SUPERVISED OPERATION OF ELEVATORS AND HOW TO SUMMON SUCH ASSISTANCE.
 - D. DIRECTIONS FOR USE OF THE EMERGENCY COMMUNICATIONS SYSTEM
 4. IDENTIFICATION. EACH DOOR PROVIDING ACCESS TO AN AREA OF REFUGE FROM AN ADJACENT FLOOR AREA SHALL BE IDENTIFIED BY A SIGN COMPLYING WITH SECTION 1117B. 5. 1. ITEM 2 STATING: AREA OF REFUGE, AND INCLUDING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. WHERE EXIT SIGN ILLUMINATION IS REQUIRED BY SECTION 1011.2, THE AREA OF REFUGE SIGN SHALL BE ILLUMINATED. ADDITIONALLY, TACTILE SIGNAGE COMPLYING WITH SECTION 1117B5. 1. ITEM 1 SHALL BE LOCATED AT EACH DOOR TO AN AREA OF REFUGE.
 5. SIGNAGE. AT EXITS AND ELEVATORS SERVING A REQUIRED ACCESSIBLE SPACE BUT NOT PROVIDING AN APPROVED ACCESSIBLE MEANS OF EGRESS, SIGNAGE SHALL BE INSTALLED INDICATING THE LOCATION OF ACCESSIBLE MEANS OF EGRESS.

THIS KEY NOTE ABOVE APPLIES TO SHEET E32 AND E42 ALSO.

FIRE ALARM EQUIPMENT SCHEDULE

QTY	SYMBOL	DEVICE
	[FACP]	FIRE ALARM CONTROL PANEL
	[ANN]	ANNUNCIATOR PANEL
	[PSD]	PHOTOELECTRIC SMOKE DETECTOR
	[MPS]	INTERIOR MANUAL PULL STATION
	[ATD]	ADDRESSABLE THERMAL DETECTOR
	[EM]	ADDRESSABLE OUTPUT MODULE
	[EPA]	SIGNAL POWER EXPANDER
	[IS]	INTERIOR STROBE (15, 30, 75, 110cd)
	[HS]	HORN STROBE (15, 30, 75, 110cd)
	[AH]	ALARM HORN
	[WFS]	WATER FLOW SWITCH
	[VTS]	VALVE TAMPER SWITCH
	[DSD]	DUCT SMOKE DETECTOR
	[AMM]	ADDRESSABLE MONITOR MODULE
	[DH]	DOOR HOLDER

WP : WEATHERPROOF F.B.O : FURNISHED BY OTHER VL : VERIFY LOCATION C : CEILING MOUNT
 F.C.I : FIRE CONTROL INSTRUMENTS
 10 : 10" SPRINKLER BELL (F.B.O) J : JUNCTION BOX (F.B.O)

WIRING SCHEDULE

WIRE TAG DESCRIPTION	WIRE IN CONDUIT
IMITATING DEVICE LOOP	
A	2 CONDUCTORS #14 AWG THIN (1) YELLOW, (1) BLUE
24VDC DEVICE POWER	
P	2 CONDUCTORS #14 AWG THIN (1) ORANGE, (1) BROWN
NOTIFICATION APPLIANCE CIRCUITS	
V	2 CONDUCTORS #12 AWG THIN (1) RED - (1) BLACK
2V	4 CONDUCTORS #12 AWG THIN (2) RED - (2) BLACK
REMOTE ANNUNCIATOR	
C	2 CONDUCTORS #18 TWISTED SHIELDED PAIR

MAXIMUM NUMBER OF CONDUCTORS IN TRADE SIZE OF CONDUIT

TRADE SIZE	CONDUIT TRADE SIZE (INCHES)				
	1/2	3/4	1	1-1/4	1-1/2
14	13	24	39	69	94
12	10	18	29	51	70
10	6	11	18	32	44

SECOND FLOOR FIRE ALARM PLAN 1
SCALE: 1/8"=1' E8.3



DAVID BURY & COMPANY ARCHITECTS LTD.

215 Church Rd.
Ojai, CA 93023
T: 805.646.4817
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project:
Ventura College Theater, Bldg G Modernization

4667 Telegraph Rd.
Ventura, CA 93003

client:
Ventura County Community College District

255 W. Stanley Ave, Suite 250
Ventura, CA 93001

consultant:

L.L.O. & ASSOCIATES INC.
CONTRACTORS, PLUMBERS, ELECTRICAL ENGINEERS
3800 SANTA MONICA BLVD
CANAVERA, CA 93001-8004
(805) 389-6100 FAX (805) 389-6199
Web Site: <http://www.lloandassociates.com>



dsa: 03-112306

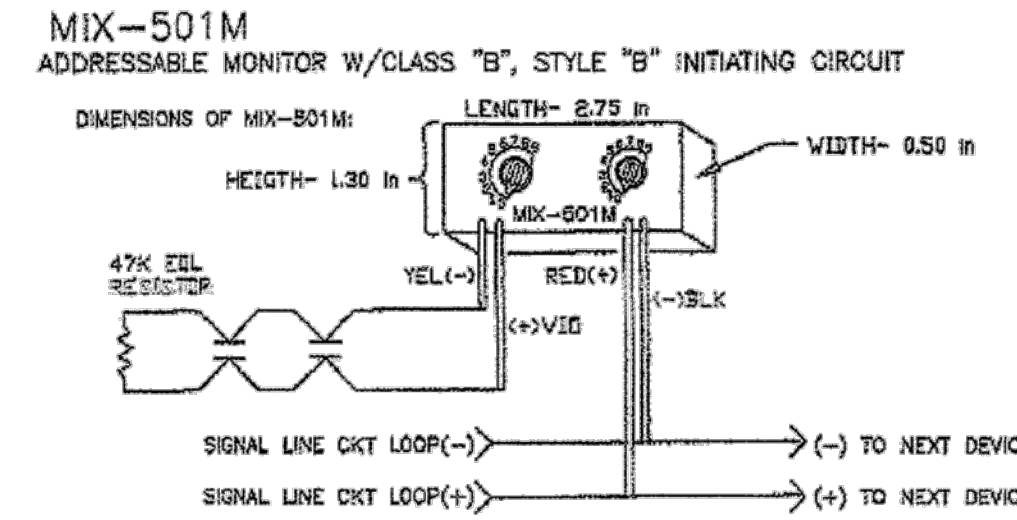
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DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 58-C1
APPL 03-112306
AC: _____ FLS: _____ SS: _____
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the original size of this drawing is 30" x 42"
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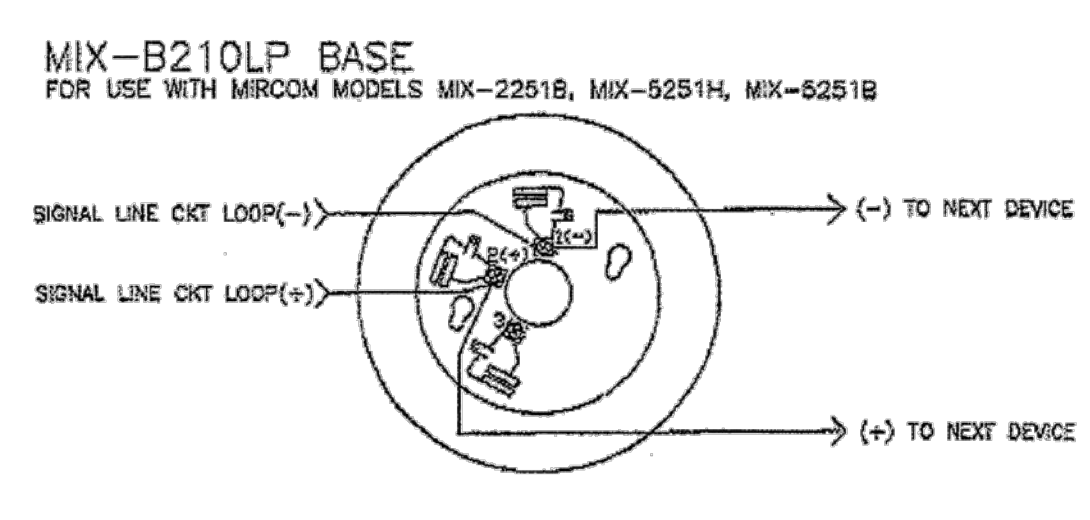
NO.	DATE	DESCRIPTION

sheet title:
SECOND FLOOR FIRE ALARM PLAN

E8.3



TYPICAL ADDRESSABLE MODULE DETAIL



TYPICAL ADDRESSABLE BASE WIRING DETAIL

FIRE ALARM EQUIPMENT SCHEDULE

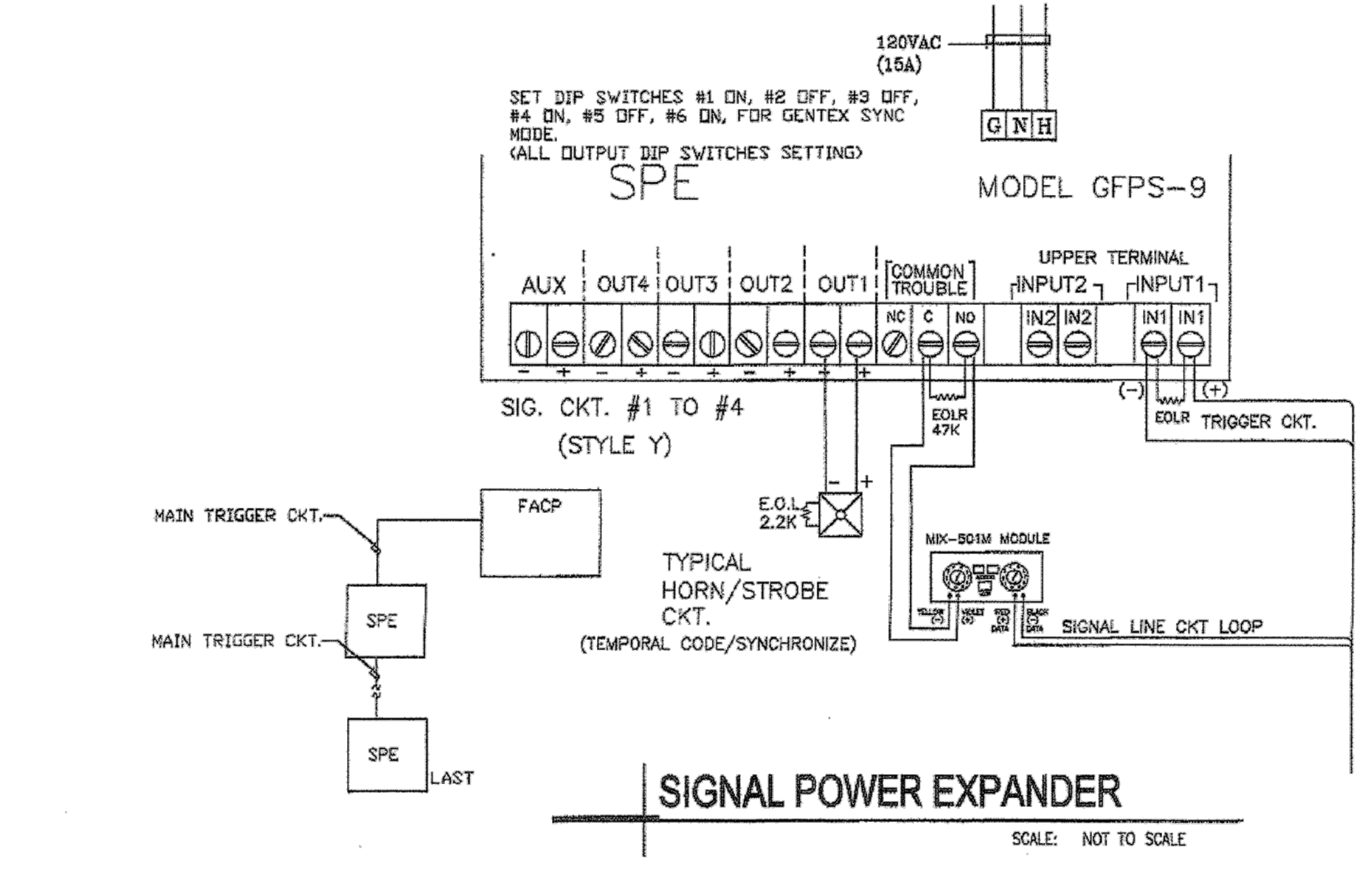
QTY	SYMBOL	DEVICE
	[FACP]	FIRE ALARM CONTROL PANEL
	[ANN]	ANNUNCIATOR PANEL
	[PDS]	PHOTOELECTRIC SMOKE DETECTOR
	[IMPS]	INTERIOR MANUAL PULL STATION
	[ITD]	INTERIOR THERMAL DETECTOR
	[AOM]	ADDRESSABLE OUTPUT MODULE
	[SPE]	SIGNAL POWER EXPANDER
	[IS]	INTERIOR STROBE (15, 30, 75, 110cd)
	[HS]	HORN STROBE (15, 30, 75, 110cd)
	[AH]	ALARM HORN
	[WFS]	WATER FLOW SWITCH
	[VTS]	VAULT TAMPER SWITCH
	[DSM]	DIRTY SMOKE DETECTOR
	[AMM]	ADDRESSABLE MONITOR MODULE
	[DH]	DOOR HOLDER

WP: WEATHERPROOF F.B.O.: FURNISHED BY OTHER VL: VERIFY LOCATION C: CEILING MOUNT
 F.C.I.: FIRE CONTROL INSTRUMENTS
 10": 10" SPRINKLER BELL (F.B.O.) J.B.O.: JUNCTION BOX (F.B.O.)

THIN	MAXIMUM NUMBER OF CONDUCTORS IN TRAYS SIZES OF CONDUIT					
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
14	13	84	39	69	94	
12	10	18	29	51	70	
10	6	11	18	32	44	

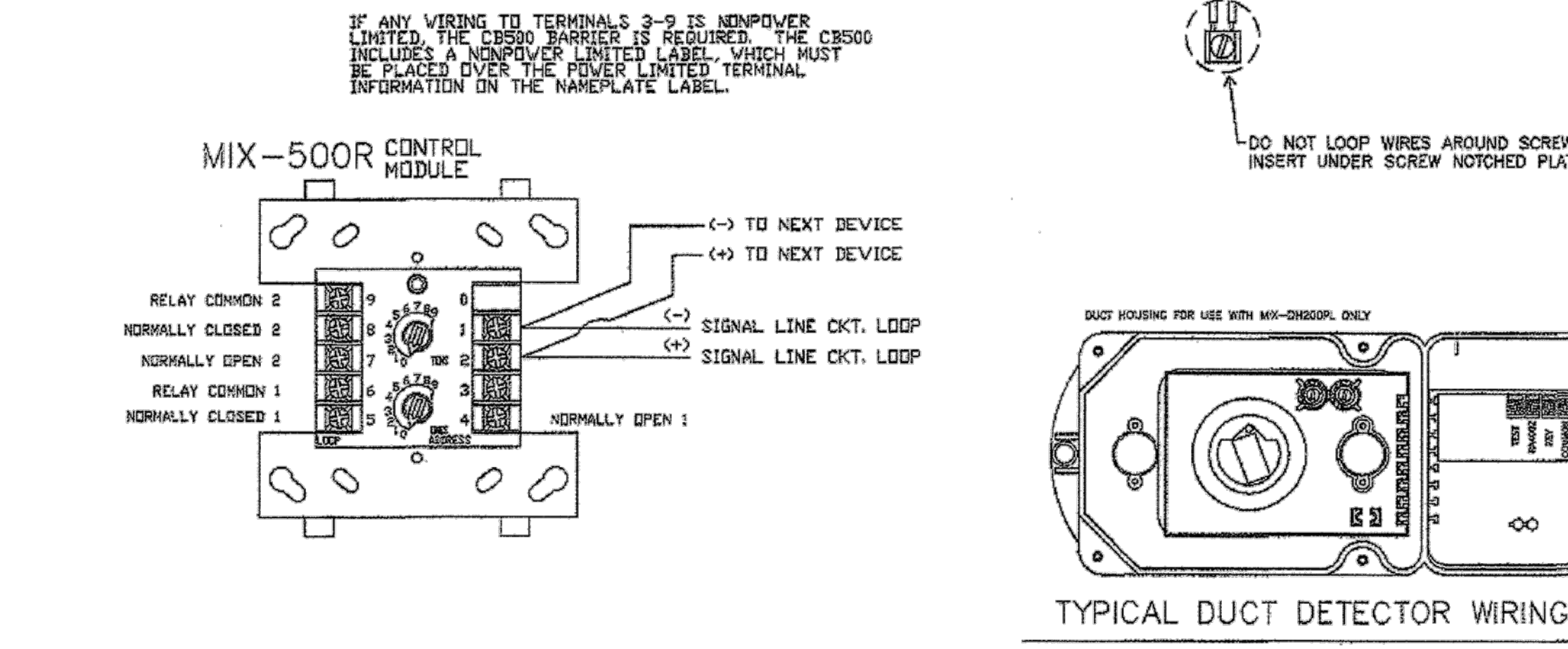
WIRING SCHEDULE

WIRE TAG DESIGNATION	WIRE IN CONDUIT
INITIATING DEVICE LOOP	
A	2 CONDUCTORS #14 AWG THIN (1) YELLOW, (1) BLUE
24VDC DEVICE POWER	
P	2 CONDUCTORS #14 AWG THIN (1) ORANGE, (1) BROWN
NOTIFICATION APPLIANCE CIRCUITS	
V	2 CONDUCTORS #12 AWG THIN (1) RED - (1) BLACK
2V	4 CONDUCTORS #12 AWG THIN (2) RED - (2) BLACK
REMOTE ANNUNCIATOR	
C	2 CONDUCTORS #18 TWISTED SHIELDED PAIR

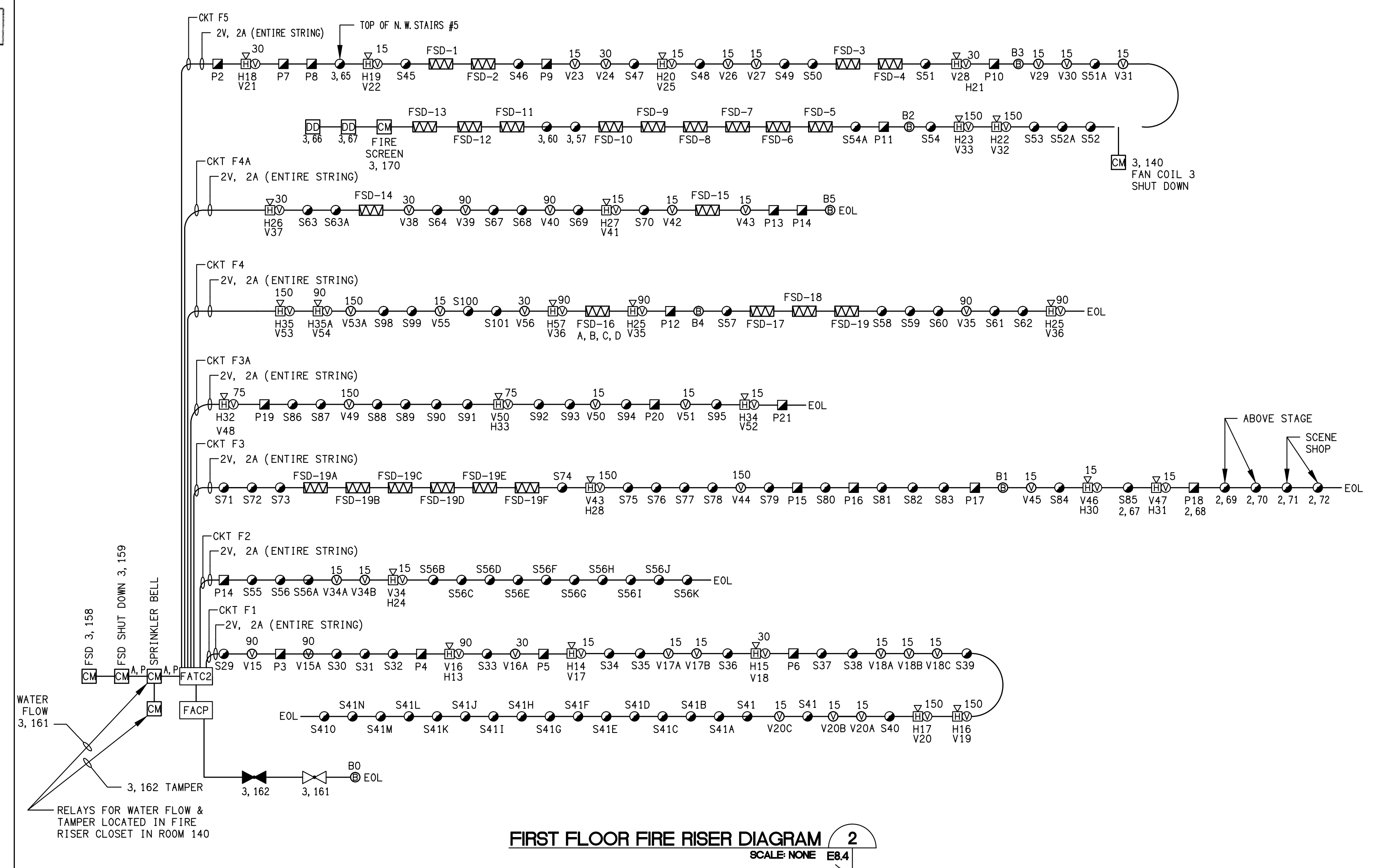


SIGNAL POWER EXPANDER

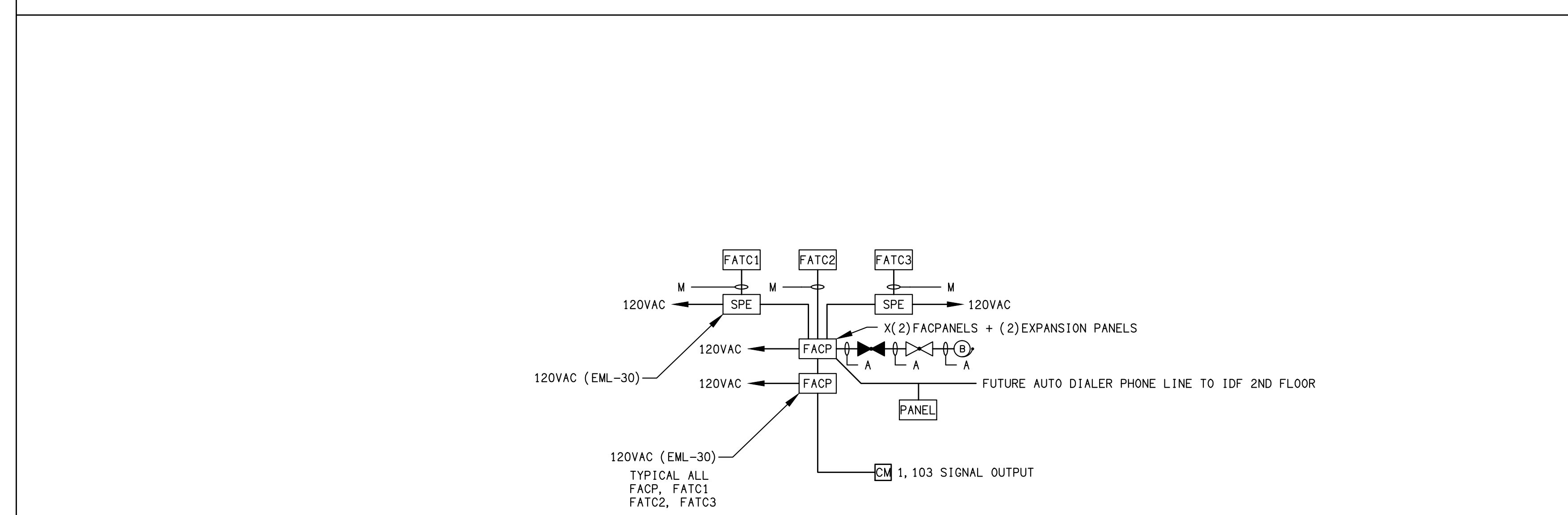
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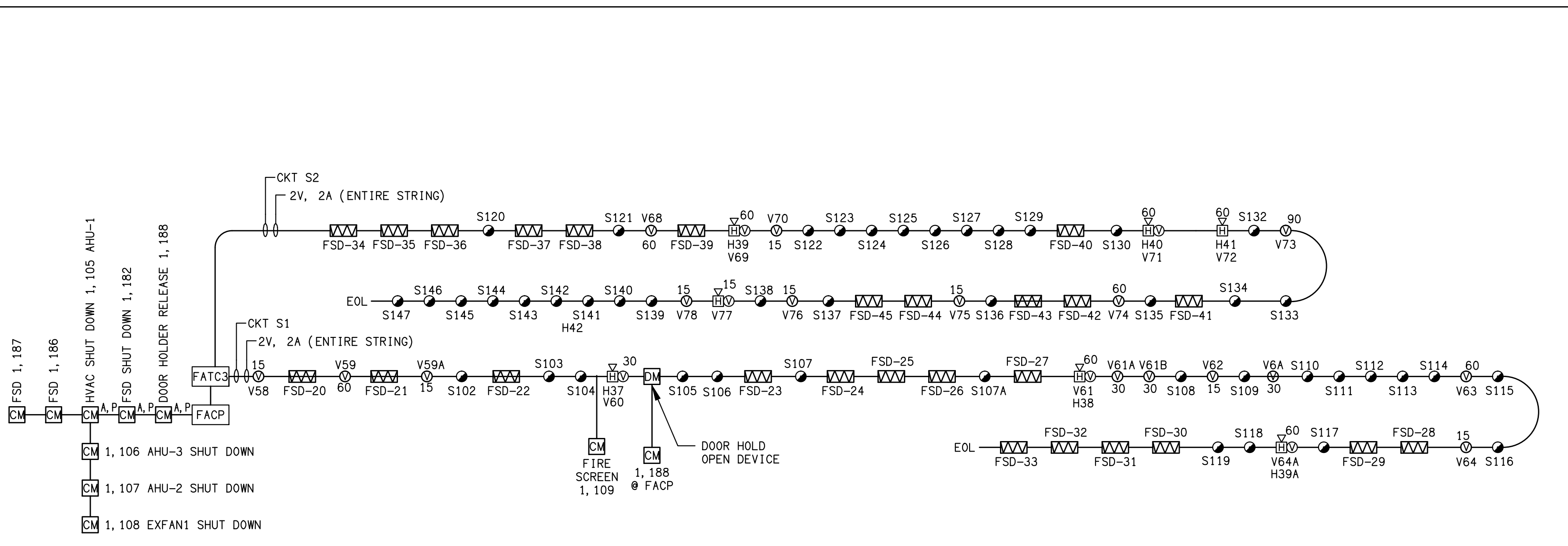
TYPICAL WIRING FOR ADDRESSABLE RELAY



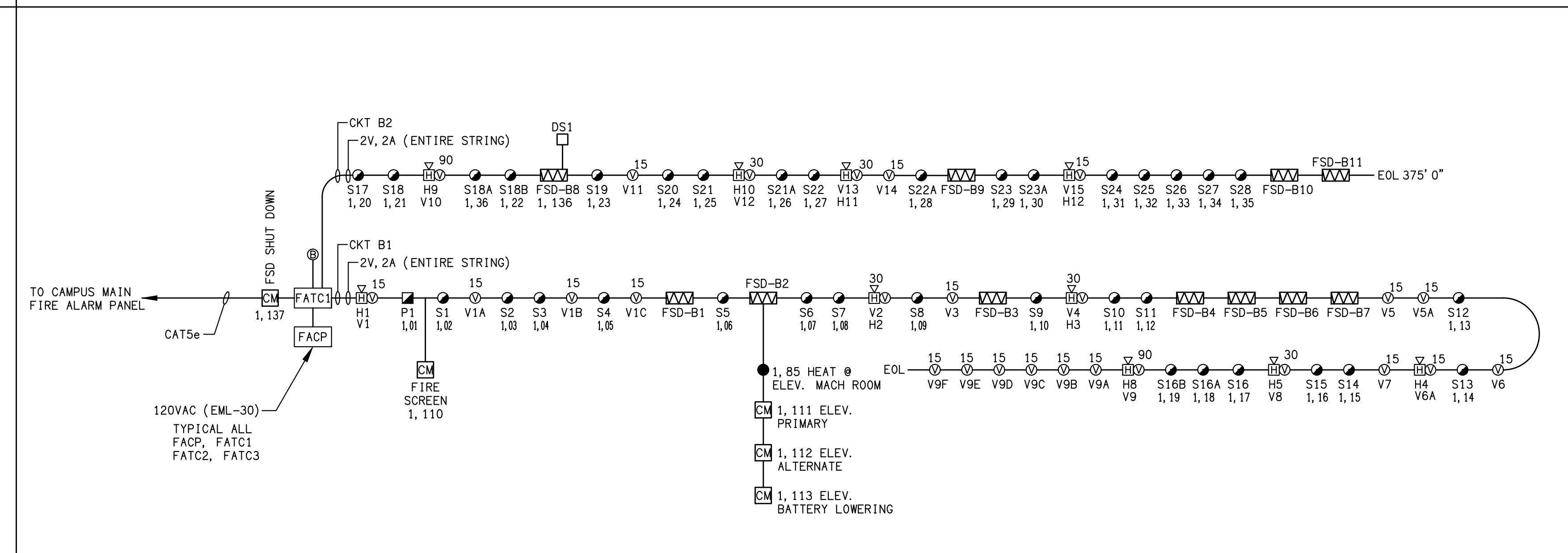
FIRST FLOOR FIRE RISER DIAGRAM 2 SCALE NONE E8.4



FACP RISER DIAGRAM 4 SCALE NONE E8.4



SECOND FLOOR FIRE RISER DIAGRAM 3 SCALE NONE E8.4



BASEMENT FIRE RISER DIAGRAM 1 SCALE NONE E8.4



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consultant:

LD&A ASSOCIATES INC. CONSULTING ELECTRICAL ENGINEERS
 580 COSTA MESA BLVD. COSTA MESA, CA 92626-8004
 (714) 999-6230 FAX (714) 999-6239
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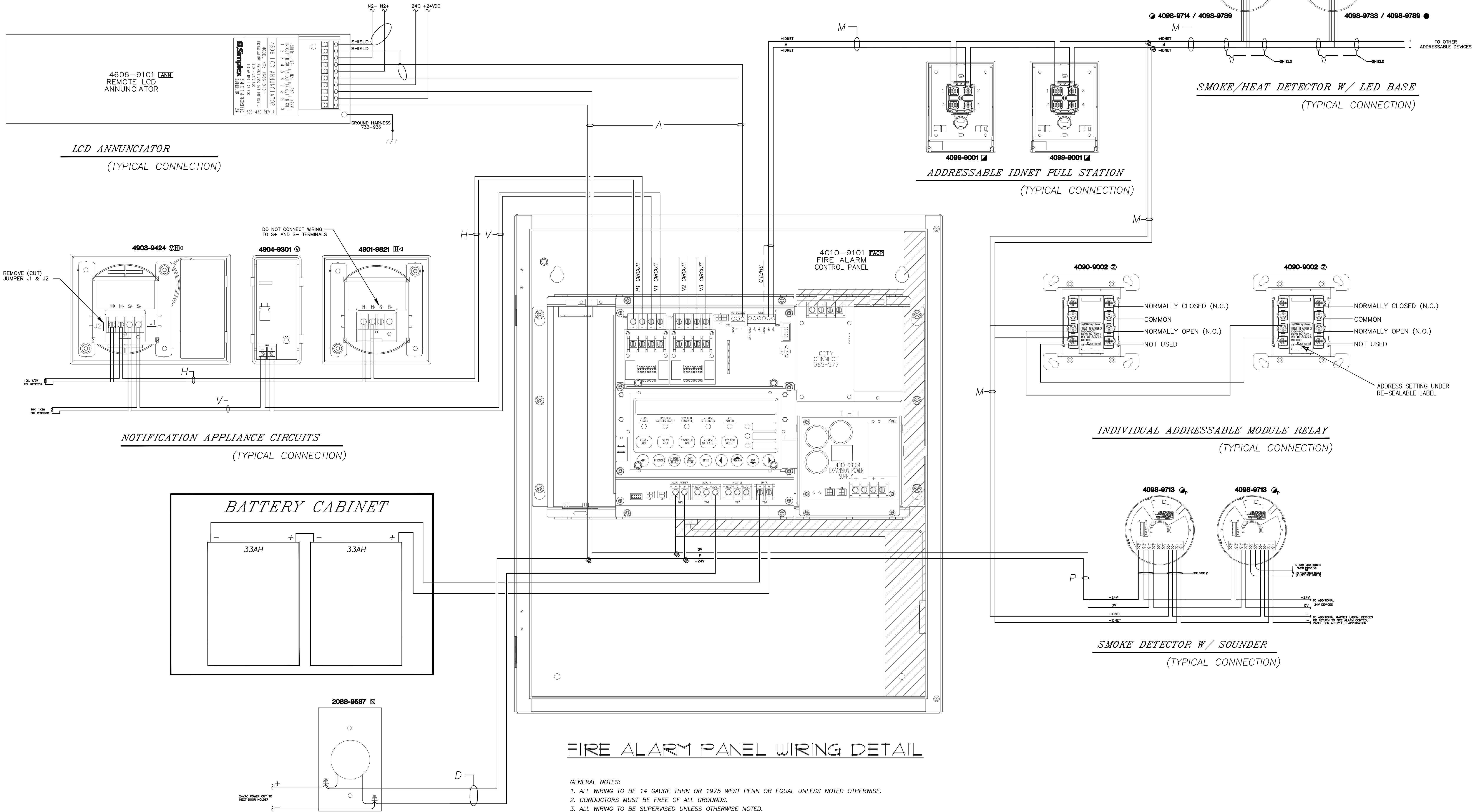
NO.	DATE	DESCRIPTION

read by: _____ check by: _____

print date: 09/20/2010

sheet title: FIRE ALARM RISER DIAGRAMS

E8.4



FIRE ALARM PANEL WIRING DETAIL

- GENERAL NOTES:
1. ALL WIRING TO BE 14 GAUGE THHN OR 1975 WEST PENN OR EQUAL UNLESS NOTED OTHERWISE.
 2. CONDUCTORS MUST BE FREE OF ALL GROUNDS.
 3. ALL WIRING TO BE SUPERVISED UNLESS OTHERWISE NOTED.
 4. ALL DEVICE WIRING TO BE TERMINATED TO APPROPRIATE POINT.
 5. A SYSTEM GROUND MUST BE PROVIDED FOR EARTH DETECTION AND TRANSIENT PROTECTION OF DEVICES. THIS CONNECTION SHALL BE MADE TO AN APPROVED DEDICATED EARTH CONNECTION PER NFPA 70, ARTICLE 250, AND NFPA 78.
 6. MOUNT A 24" X 24" X 4" TERMINAL CABINET ABOVE THE FACP WITH TERMINAL STRIPS FOR TERMINATING WIRING. DO NOT USE FACP FOR WIRE NUT TERMINATIONS.
 7. SCHEDULE TECHNICIAN TO SUPERVISE CONNECTIONS.

WIRE CHART							
SYMBOL	CIRCUIT USE	DESCRIPTION	BSCC# INDOOR	O.D.	COLOR	BSCC# OUTDOOR	O.D.
M	IDNET COMMUNICATION LINE	1 TSP #18	S1802S17	0.234	BLACK/RED	S1602S33	.300
P	24 VDC POWER	2#14 AWG/THHN		N/A	BLACK/RED	S1402S33	.340
H	HORN CIRCUIT	2#14 AWG/THHN		N/A	BLACK/RED	S1402S33	.340
V	STROBE CIRCUIT	2#12 AWG/THHN		N/A	BLACK/RED	S1202S33	.360
A	ANNUNCIATOR CIRCUIT	1 TSP #18 + 2#14	S1802S17+2#14 THHN	0.234	BLACK/RED	S1602S33	.300
D	DOOR HOLDER CIRCUIT	2#14 AWG/THHN		N/A	BLACK/RED	S1402S33	.340
TSP = TWISTED SHIELDED PAIR							

DOOR HOLDERS
(TYPICAL CONNECTION)



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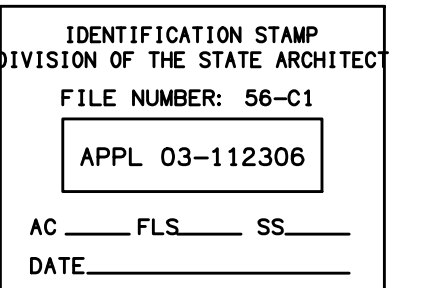
consultant:

LDON & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERING
3505 COSTA MESA BLVD. #401
CANAVERAS, CA 93008-8004
(805) 989-8230 FAX (805) 989-6579
Web Site: www.lendon.com

seal:



dsa: 03-112306



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sheet title:
FIRE ALARM DETAILS

E8.5