

SYMBOL LIST

DASHED SYMBOL INDICATES EXISTING FIXTURE, OUTLET, DEVICE OR EQUIPMENT TO BE REMOVED.

FINE-LINED SYMBOL INDICATES EXISTING FIXTURE, OUTLET, DEVICE OR EQUIPMENT TO REMAIN.

EXISTING CONDUIT TO REMAIN.

EXISTING CONDUIT TO BE REMOVED IF IN AN ACCESSIBLE AREA OR TO BE ABANDONED IF IN AN INACCESSIBLE AREA.

FIXTURE TYPE AND MOUNTAGE PER FIXTURE LIST. TYPICAL FOR ROOM INDICATED UNLESS OTHERWISE NOTED.

INDICATES CONTROLLING SWITCH LEGS.

114 DENOTES BRANCH CIRCUIT NUMBER SUPPLYING FIXTURE.

RECESSED MOUNTED FLUORESCENT LIGHTING FIXTURE.

RECESSED MOUNTED FLUORESCENT LIGHTING FIXTURE CONNECTED FOR EMERGENCY LIGHTING OPERATION.

SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE.

SQUARE LIGHTING FIXTURE. LAMP AND MOUNTING PER FIXTURE TYPE. SEE FIXTURE SCHEDULE.

MALL MOUNTED LIGHTING FIXTURE. MOUNTING HEIGHT AS INDICATED.

SINGLE HEAD, POLE MOUNTED PARKING LOT OR AREA LIGHTING FIXTURE.

S SINGLE POLE, SINGLE THROW TOGGLE SWITCH, MOUNTED AT +48" TO CENTER OF BOX U.O.N. SUBSCRIPT INDICATES CONTROLLING SWITCH LEGS.

S SINGLE POLE, SINGLE THROW TOGGLE SWITCH, MOUNTED AT +48" TO CENTER OF BOX U.O.N.

KEYED SWITCH, MOUNTED AT +48" TO CENTER OF BOX U.O.N.

CEILING MOUNTED OCCUPANCY SENSOR.

MALL MOUNTED OCCUPANCY SENSOR / MALL SWITCH, MOUNTED AT +48" TO CENTER OF BOX U.O.N.

DUPLEX RECEPTACLE, MOUNTED AT +48" TO CENTER OF BOX U.O.N.

DUPLEX RECEPTACLE, GFI PROTECTION, MOUNTED AT +48" TO CENTER OF BOX U.O.N.

DOUBLE DUPLEX RECEPTACLE, MOUNTED AT +48" TO CENTER OF BOX U.O.N.

6"x6"x4" DEEP NEMA 1 PULLBOX WITH SCREEN COVER, COMPLETE WITH DUPLEX RECEPTACLE MOUNTED WITHIN FOR CLASSROOM AV SPEAKER TRANSFORMER.

SPECIAL PURPOSE RECEPTACLE, AS NOTED.

CLOCK HANGER RECEPTACLE, MOUNTED AT +18" TO CENTER OF BOX U.O.N.

POWER DISTRIBUTION SWITCHBOARD.

SURFACE MOUNTED PANELBOARD.

FLUSH MOUNTED PANELBOARD.

SURFACE MOUNTED CABINET, AS NOTED.

FLUSH MOUNTED CABINET, AS NOTED.

FUSED DISCONNECT SWITCH. SIZE AS NOTED. (FDS)

GROUND CONNECTION.

SWITCH SIZE.

NO. OF POLES.

FUSE SIZE.

TRIP SETTING.

FRAME SIZE.

NUMBER OF POLES.

ENCLOSED CIRCUIT BREAKER. SIZE AS NOTED.

CODE SIZE JUNCTION BOX.

TRANSFORMER, SIZE AND MOUNTING AS NOTED. (XFMR)

MOTOR CONNECTION.

MECHANICAL EQUIPMENT REFERENCE.

CEILING MOUNTED INTRUSION DETECTOR, PASSIVE INFRARED TYPE, 360°.

RELAY.

CODE SIZE PULLBOX, SIZED AS REQUIRED.

MAINTENANCE HOLES, SIZED AS INDICATED.

3/4"x10'-0" COPPER CLAD GROUND ROD, U.O.N.

3/4" X 10'-0" COPPER CLAD GROUND ROD IN A YARD BOX.

DOOR ALARM SWITCH, AS NOTED.

CONDUIT CONCEALED IN WALL OR CEILING SPACE.

CONDUIT CONCEALED UNDER FLOOR SLAB OR UNDERGROUND.

CONDUIT INSTALLED EXPOSED.

CONDUIT INSTALLED UNDER A RAISED FLOOR OR UNDER A PORTABLE BUILDING.

DOUBLE CHANNEL PLASTIC SURFACE RACENAY EQUIVALENT TO WIREMOLD SERIES 2300.

CONDUIT OR SURFACE RACENAY TURNED UP.

CONDUIT OR SURFACE RACENAY TURNED DOWN.

CONDUIT SUB-OUT TERMINATION.

FLEXIBLE METAL CONDUIT. INSTALL REQUIRED BRANCH CIRCUIT CONDUCTORS AND EQUIPMENT GROUND CONDUCTOR.

HOMERUN TO INDICATED PANELBOARD ("A"), NUMBERS (13) INDICATE BRANCH CIRCUIT NUMBERS. 1" CONDUIT MINIMUM AT NEW BUILDINGS.

INDICATES 3/4" CONDUIT WITH 3 NUMBER 8 CONDUCTORS + 1 NUMBER 10 EQUIPMENT GROUND.

SYMBOL LIST (CONTINUED)

3/4" CONDUIT WITH 2#12 CONDUCTORS PLUS #12 EQUIPMENT GROUNDING CONDUCTOR.

3/4" CONDUIT WITH 3#12 CONDUCTORS PLUS #12 EQUIPMENT GROUNDING CONDUCTOR.

3/4" CONDUIT WITH 4#12 CONDUCTORS PLUS #12 EQUIPMENT GROUNDING CONDUCTOR.

3/4" CONDUIT WITH 5#12 CONDUCTORS PLUS #12 EQUIPMENT GROUNDING CONDUCTOR.

3/4" CONDUIT WITH 6#12 CONDUCTORS PLUS #12 EQUIPMENT GROUNDING CONDUCTOR.

3/4" CONDUIT WITH 7#12 CONDUCTORS PLUS #12 EQUIPMENT GROUNDING CONDUCTOR.

1" CONDUIT WITH 2#12 CONDUCTORS PLUS #12 EQUIPMENT GROUNDING CONDUCTOR.

A NUMBER ADJACENT TO THE HASH MARK IN ANY CONDUIT RUN INDICATES THE CONDUCTOR SIZE TO BE USED IN LIES OF #12 AWG. CONDUIT AND EQUIPMENT GROUNDING CONDUCTOR SHALL BE SIZED PER CEC, U.O.N.

MULTI-CHANNEL SURFACE RACENAY UP WALL TO CEILING.

MULTI-CHANNEL SURFACE RACENAY DOWN WALL TO FLOOR.

POWER OR POWER/DATA POLE AS NOTED.

WIREMOLD 5400 (OR AS NOTED) AT ELEVATION NOTED.

WIREMOLD 5400 (OR AS NOTED) MOUNTED AT +15" AFF.

WIREMOLD 5400 (OR AS NOTED) MOUNTED AT CEILING/MALL INTERSECTION.

WIREMOLD 5400 (OR AS NOTED) MOUNTED ON CEILING.

INDICATES DETAIL "A" ON SHEET E-6

LOW VOLTAGE CIRCUIT BREAKER.

FUSE, SIZE AND TYPE AS NOTED.

POWER TRANSFORMER.

ABBREVIATIONS

AFF ABOVE FINISHED FLOOR

AIC AMPERE INTERRUPTING CAPACITY

ANSI AMERICAN NATIONAL STANDARDS INSTITUTE

BDF BUILDING DISTRIBUTION FRAME

BDF/CDP BUILDING AND CLASSROOM DISTRIBUTION FRAME

EKBD BACKBOARD

CB CIRCUIT BREAKER

CEB COMMUNICATION BACKBOARD

CEC CALIFORNIA ELECTRICAL CODE

CIR CIRCUIT

CMH COMMUNICATIONS MAINTENANCE HOLE

C.O. CONDUIT ONLY

CPB COMMUNICATIONS PULLBOX

CTC COMMUNICATIONS TERMINAL CABINET

CU COPPER

DP DISTRIBUTION PANELBOARD

E EMERGENCY LIGHTING FIXTURE

EG EQUIPMENT GROUND

EH ELECTRICAL HANDHOLE

EIA/ITIA ELECTRICAL INDUSTRY ASSOCIATION / TELECOMMUNICATION INDUSTRY ASSOCIATION

EPB ELECTRICAL PULLBOX

EX EXISTING

FAAP FIRE ALARM ANNUNCIATOR PANEL

FACP FIRE ALARM CONTROL PANEL

FATC FIRE ALARM TERMINAL CABINET

IDF INTERMEDIATE DISTRIBUTION FRAME

IDTC INTRUSION DETECTION TERMINAL CABINET

KAIC 1000 AMPS INTERRUPTING CAPACITY

KVA KILOVOLT-AMPS

MDF MAIN DISTRIBUTION FRAME

MFR MANUFACTURER

MSB MAIN SWITCHBOARD

NTS NOT TO SCALE

OC ON CENTER

PBX PRIVATE BRANCH EXCHANGE (PHONE SWITCH)

PNL PANEL

RTU REMOTE TERMINAL UNIT

S.I. SQUARE INCHES

SNAC SUPPLEMENTARY NOTIFICATION APPLIANCE CIRCUIT

SCGR SHORT CIRCUIT CURRENT RATING

SSTC SIGNAL SYSTEM TERMINAL CABINET

SWBD SWITCHBOARD

TMH TELEPHONE MAINTENANCE HOLE

TVTC TELEVISION TERMINAL CABINET

TYP TYPICAL

U.O.N. UNLESS OTHERWISE NOTED

UTP UNSHIELDED TWISTED PAIR

WP WEATHERPROOF

XFMR TRANSFORMER

+48" MOUNTING HEIGHT ABOVE FINISHED FLOOR (TO CENTER OF DEVICE)

TRENCHING NOTE

LOCATIONS OF EXISTING UNDERGROUND UTILITY AND OTHER UNDERGROUND OBSTRUCTIONS AND CONDITIONS ARE GENERALLY UNKNOWN. HIRE A UTILITY LOCATING SERVICE TO LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO DIGGING. VERIFY EXACT LOCATION SIZE AND EXTENT OF ALL OBSTRUCTIONS AND OTHER CONDITIONS WHICH MAY AFFECT THE PROPOSED WORK UNDER THE PROJECT. TAKE EVERY PRECAUTION TO PREVENT DAMAGE TO EXISTING WORK, INCLUDING HAND DIGGING AROUND EXISTING UTILITIES, TREE ROOT SYSTEMS, AND HARDSCAPE FEATURES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE IMMEDIATELY REPAIRED OR REPLACED IN ACCORDANCE WITH THE CLIENT'S DIRECTION AT THE CONTRACTOR'S EXPENSE.

STRUCTURAL NOTE

UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND DISTRICT STRUCTURAL ENGINEER FROM DIVISION OF THE STATE ARCHITECT.

SPECIAL NOTE

ALL EXISTING SYSTEMS, POWER DATA, FIRE ALARM, TELEPHONE, BELLS, CLOCKS, ETC. TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION.

WIREMOLD NOTES

CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED WIREMOLD FITTINGS AND ACCESSORIES FOR A COMPLETE INSTALLATION. THIS SHALL INCLUDE ALL OFFSETS, BENDS, T AND L FITTINGS, SPLICE COVERS AND WIRE CLIPS. INSTALL WIRE CLIPS AT 4 FT. ON CENTER (AT 2 FT. ON CENTER IF INSTALLED ON THE CEILING). ALL FITTINGS SHALL BE FIBER OPTIC RATED AND SHALL BE INSTALLED PER EIA/ITIA STANDARDS. PROVIDE BACKING OR FURRING BEHIND WIREMOLD (WHERE REQUIRED) FOR A FLAT INSTALLATION.

SPECIAL INSTRUCTIONS

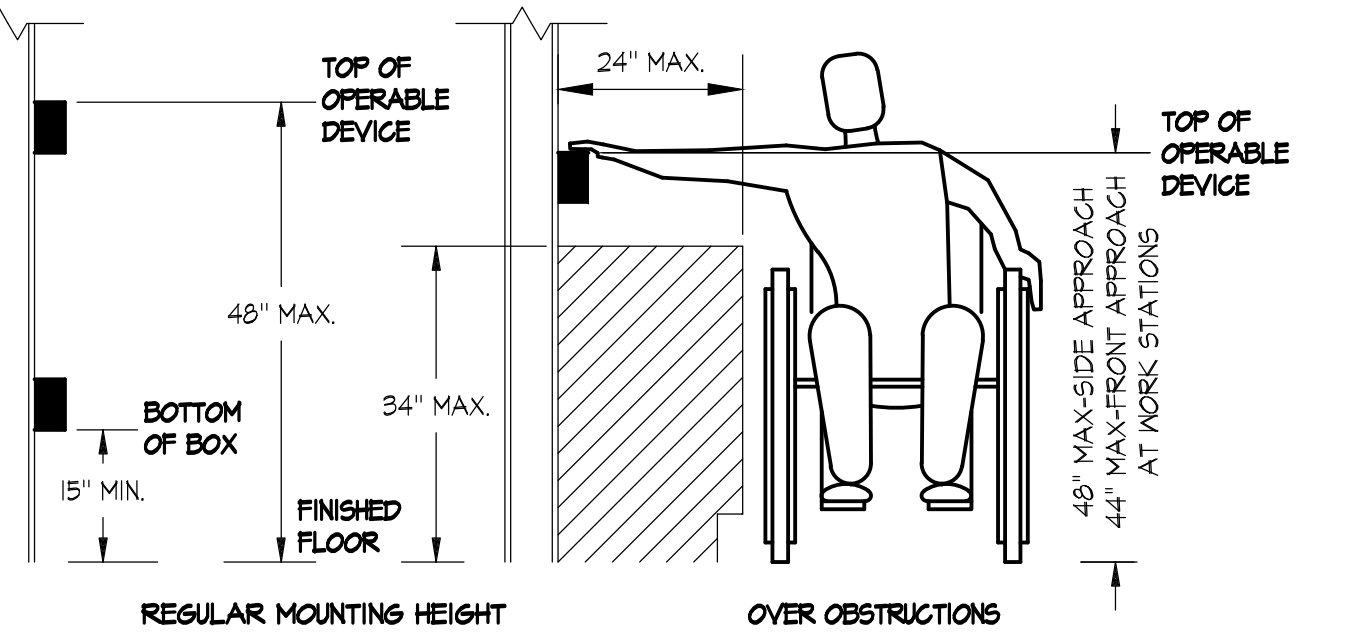
PROVIDE A 24 HOUR A DAY FIRE AND SECURITY WATCH FOR DURATION OF POWER SHUTDOWN, AND FOR 6 HOURS AFTER REACTIVATION OF POWER.

FIRE ALARM NOTE

FOR FIRE ALARM NOTES SEE EF-01. FOR COMPLETE FIRE ALARM SUBMITTAL SEE SHEETS EF-01, EF-02, AND EF-01.

EMT SIZING SCHEDULE			
CONDUIT SIZE	AREA	40% FILL x 75%	ALLOWABLE FILL
3/4" DIAMETER CONDUIT	0.53 S.I.	30%	0.154 S.I.
1" DIAMETER CONDUIT	0.86 S.I.	30%	0.258 S.I.
1 1/4" DIAMETER CONDUIT	1.50 S.I.	30%	0.450 S.I.
1 1/2" DIAMETER CONDUIT	2.04 S.I.	30%	0.612 S.I.
2" DIAMETER CONDUIT	3.96 S.I.	30%	1.01 S.I.
2 1/2" DIAMETER CONDUIT	5.86 S.I.	30%	1.76 S.I.
3" DIAMETER CONDUIT	8.85 S.I.	30%	2.66 S.I.
3 1/2" DIAMETER CONDUIT	11.5 S.I.	30%	3.45 S.I.
4" DIAMETER CONDUIT	14.75 S.I.	30%	4.43 S.I.

MINIMUM CONDUIT SIZES ALLOWED FOR THIS PROJECT	
3/4" CONDUIT	POWER/LIGHTING
3/4" CONDUIT	FIRE ALARM
3/4" CONDUIT	INTRUSION
1" CONDUIT	DATA
1 1/4" CONDUIT	AUDIO/VISUAL



NOTE

WHERE LIGHT SWITCHES, RECEPTACLES, TELEPHONE/DATA OUTLETS, DIMMING CONTROL STATIONS, FIRE ALARM PULL STATIONS OR OTHER OPERABLE OUTLET DEVICES OCCUR OVER FIXED OBSTRUCTIONS (SUCH AS CASEWORK, ETC) RESPECTIVE DEVICE MOUNTING HEIGHT LIMITS AFF SHALL BE AS TYPICALLY DEPICTED ABOVE.

SWITCH, OUTLET OR OTHER CONTROL DEVICE

MOUNTING HEIGHT OVER OBSTRUCTIONS

NO SCALE

GENERAL NOTES

- ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2010 CBC, SECTION 1605.1.2 THROUGH 1605.1.22 AND ASCE 7-05 CHAPTER 6 AND 15.
 - ALL PERMANENT EQUIPMENT AND COMPONENTS.
 - TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
 - MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THE PROJECT INSPECTOR WILL VERIFY THAT THESE ITEMS HAVE BEEN POSITIVELY ATTACHED. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER.

- PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY THE FORCE AND DISPLACEMENTS PRESCRIBED IN ASCE 7-05 SECTION 15.3 AS DEFINED IN ASCE 7-05 SECTION 15.6.2, 15.6.7, 15.6.8.6, AND 2010 CBC, SECTIONS 1605.1.20, 1605.1.21 AND 1605.1.22.

THE BRACINGS AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH AN OPA # SUCH AS MASON INDUSTRIES (OPA 544), OR ISAT (OPA 498) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF AGC 380, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

- ALL WIRING ON THIS PROJECT SHALL BE COPPER/FIBER AND SHALL BE INSTALLED IN CONDUIT, SURFACE RACENAY OR CABLE TRAY PER SPECIFICATIONS.
- INSTALL A PULL ROPE IN ALL CONDUITS LABELED "CONDUIT ONLY". ROPE SHALL BE PER SPECIFICATION.
- ALL COLD WATER PIPE GROUND CONNECTIONS SHALL BE MADE WITHIN 5 FT. OF COLD WATER PIPE ENTRANCE INTO THE BUILDING. SEE CEC 250.32.
- VERIFY ALL EXISTING CONDITIONS AND ASSUME THE RESPONSIBILITY OF FITTINGS, EQUIPMENT, RACENAYS, ETC. IN THE EXISTING SPACE ALLOWED. ALL NEW INSTALLATIONS SHALL BE AT NEAT RIGHT ANGLES.
- THE FOLLOWING BENDING RADI SHALL BE MAINTAINED FOR ALL COMMUNICATION UNDERGROUND CONDUIT SHEEPS.

CONDUIT SIZE	SWEEEP SIZE
24"	24"
3"	36"
4"	48"
- ALL WORK SHALL BE IN COMPLIANCE WITH NFPA 70-2010 WITH CALIFORNIA AMENDMENTS (2010 CEC) AND WHERE APPLICABLE AS AMENDED BY LOCAL ORDINANCES AND CODES OF GOVERNING MUNICIPALITIES.
- ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ALL OTHER RELATED CONTRACT DRAWINGS.
- CAREFULLY EXAMINE ALL CONTRACT DRAWINGS/SPECIFICATIONS AND BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIALS AND EQUIPMENT AT EACH LOCATION AS INDICATED WITHOUT SUBSTANTIAL ALTERATION. IN AS MUCH AS THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED. FURNISHING FITTINGS REQUIRED TO MEET SUCH CONDITIONS SHALL BE AT NO COST TO THE OWNER.
- CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS. EXPOSED CONDUITS SHALL BE INSTALLED PARALLEL TO BEAMS AND WALLS.
- ALL CIRCUIT PROTECTIVE DEVICES SHALL HAVE THE REQUIRED RATINGS AND INTERRUPTING CAPACITY EQUAL TO OR GREATER THAN THE AVAILABLE SHORT CIRCUIT CURRENT AT ITS SUPPLY TERMINAL.
- ALL BUILDING WIRING SHALL BE COPPER, PER SPECIFICATIONS, REGARDLESS OF APPLICATION. NO ALUMINUM WIRING SHALL BE USED.
- FIELD VERIFY EXISTING CONDITIONS AND ADVISE ENGINEER OF ANY DISCREPANCIES OR DEVIATIONS BETWEEN PLANS AND ACTUAL CONDITIONS PRIOR TO SUBMITTING BID.
- ALL EQUIPMENT AND MATERIALS REMOVED BY THE CONTRACTOR SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
- DIVISION 16 CONTRACTOR SHALL CLOSELY COORDINATE THE RACENAY INSTALLATION WITH THE DIVISION 17 CONTRACTOR. DIVISION 17 SHALL INSTRUCT THE DIVISION 16 ON THE SPECIAL REQUIREMENTS FOR THE INSTALLATION OF FIBER OPTIC AND CATEGORY 5E RACENAYS. DIVISION 17 SHALL INSPECT AND ACCEPT RACENAY SYSTEMS PRIOR TO THE INSTALLATION OF ANY DATA WIRING.
- ALL FEEDERS AND BRANCH CIRCUITS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR INSTALLED, SIZED PER CEC TABLE 250.122 UNLESS OTHERWISE NOTED.
- DEVICE MOUNTING HEIGHTS ARE MEASURED FROM FINISHED FLOOR TO CENTER OF BOX.

SPROTTE WATSON

ARCHITECTURE PLANNING

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REGISTERED ARCHITECT

C12359

STATE OF CALIFORNIA

SCHOOL MODERNIZATION

RANCHO SAN DIEGO SCHOOL

CAJON VALLEY UNION SCHOOL DISTRICT

12151 CALLE ALBARA

EL CAJON, CALIFORNIA 92019

CONSULTANT

REVISIONS

NOT FOR CONSTRUCTION

THIS PLAN HAS BEEN PRINTED PRIOR TO ISSUANCE OF A BUILDING PERMIT AND IS SUBJECT TO CHANGE.

DATE	12/15/2011	PRELIMINARY DRAWINGS
DATE	12/15/2011	REVISED DRAWINGS
DATE	12/15/2011	REVISIONS

SPROTTE WATSON

Architecture and Planning

450 S. Main Street, Suite 200, Vista, CA 92081

APPROVALS

DESCRIPTION

SYMBOL LIST

GENERAL NOTES

DATE

03-01-12

JOB #

11287

SHEET #

E-01

TURPIN & RATTAN

ENGINEERING, INC.

CONSULTING ELECTRICAL ENGINEERS

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R. CEBALLOS 03/02/12 5:33PM

REGISTERED PROFESSIONAL ENGINEER

CATHERINE J. KURTZ

13554

Exp. 9-30-12

ELECTRICAL

STATE OF CALIFORNIA

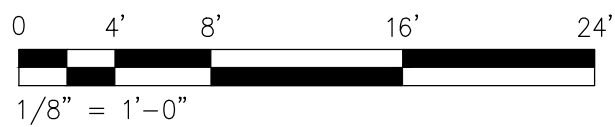
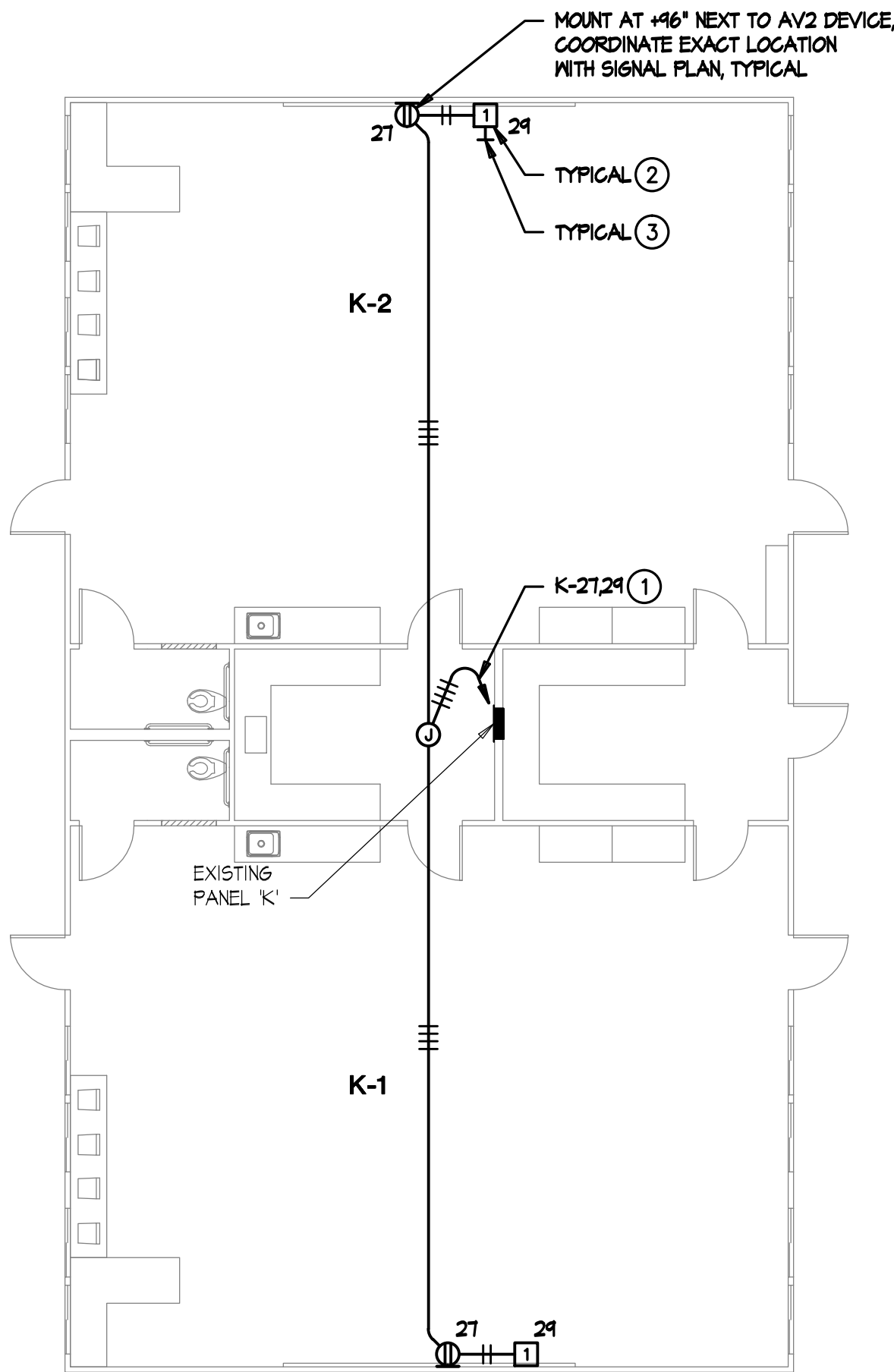
MARK FORTIE, RCDD

REGISTERED COMMUNICATIONS DESIGNER

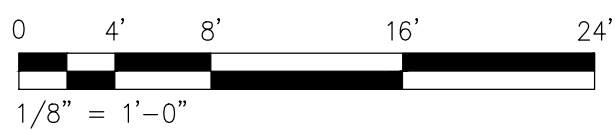
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EXPRESS 12/31/14

Regis. No. 091432



BUILDING A - K1 & K2 - POWER PLAN



BUILDING A - K1 & K2 - SIGNAL PLAN

POWER PLAN KEYNOTES

- CONNECT TO EXISTING 20 AMP 1-POLE CIRCUIT BREAKER IN EXISTING PANEL.
- MOUNT TOP OF BOX 2" BELOW CEILING LINE, COORDINATE EXACT LOCATION WITH AV CONTRACTOR, TYPICAL.
- 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR SPEAKER WIRING, COORDINATE EXACT LOCATION WITH AV CONTRACTOR, TYPICAL.

SIGNAL PLAN KEYNOTES

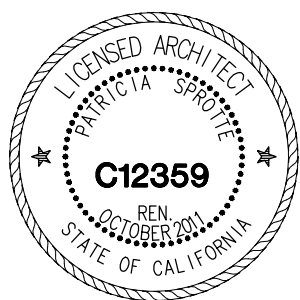
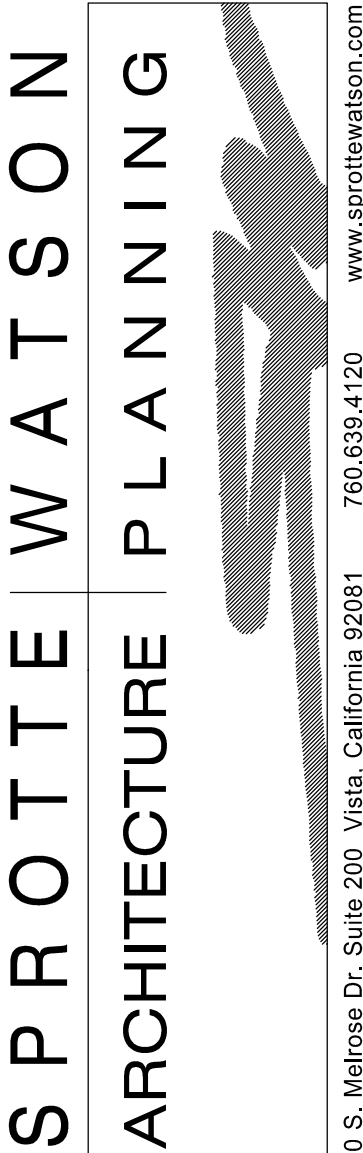
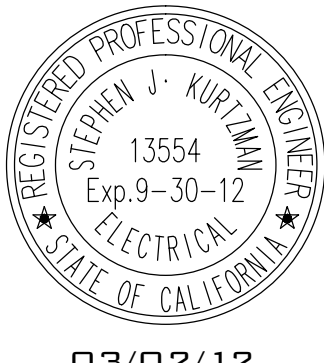
- AV1 OUTLET MOUNTED AT TEACHER'S STATION LOCATION (+42" AFF). SEE ET-5.4 FOR DETAILS.
- AV2 OUTLET MOUNTED AT SHORT-THROW PROJECTOR LOCATION (+46" AFF). SEE ET-5.4 FOR DETAILS.
- AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
- (3) PORT CATEGORY 6 CEILING MOUNTED DATA OUTLET FLUSH IN CEILING TILE DESIGNATED FOR WIRELESS NETWORK.
- (1) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. USE EXISTING DATA OUTLET LOCATION CLOSEST TO CENTER OF THE TEACHING MALL.
- (1) PORT CATEGORY 6 DATA OUTLET AT +46" A.F.F. DESIGNATED FOR PROJECTOR MONITORING. CONTRACTOR TO COORDINATE EXACT LOCATION WITH SHORT-THROW PROJECTOR MOUNTING PLATE.
- (2) PORT CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 DATA JACK AND CABLE TO IDF. UTILIZE EXISTING RACEWAY FOR INSTALLATION. SEE RISER DIAGRAM A1ET-1.3 FOR DETAILS.
- EXISTING MULTI-CHANNEL SURFACE RACEWAY INTO CEILING SPACE.
- NEW MULTI-CHANNEL SURFACE RACEWAY INTO CEILING SPACE. PROVIDE EXTRON 2-6ANG EMB SERIES WALL BOX FOR AV INTERFACE. SEE DETAIL B1ET-5.4.
- SEE A/B1ET-5.3 FOR LABELING DETAILS.
- SEE D1ET-5.3 FOR LABELING DETAILS.
- DISTRICT PROVIDED GPS/SATELLITE CLOCK.
- PENETRATE OUTSIDE WALL INTO ACCESSIBLE CEILING SPACE ABOVE CEILING GRID. CAULK PENETRATION TO MAINTAIN WALL RATING. SEE DETAIL A1ET-5.2 FOR TYPICAL CONNECTION TO HORIZONTAL PATHWAYS.
- EXISTING PHONE (BOGEN HANDSET).

SPECIAL NOTE

- CONTRACTOR TO RE-USE EXISTING SURFACE MOUNTED RACEWAY. PROVIDE NEW RACEWAY AND/OR ANY REPLACEMENTS IN THE EVENT OF DAMAGE TO MATCH EXISTING RACEWAY (HUBBELL).



1/8" = 1'-0"



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Sprotte Watson INFORMATION DRAWINGS
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APPROVALS

DESCRIPTION

BUILDING A
K1 & K2
POWER/SIGNAL
PLANS

DATE

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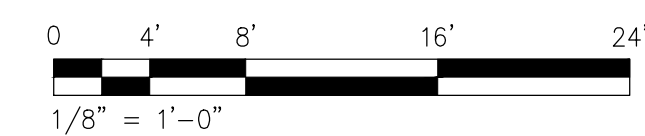
SHEET #

E-11



0 4' 8' 16' 24'

$\frac{1}{8}'' = 1'-0''$



0 4' 8' 16' 24'

$\frac{1}{8}" = 1'-0"$

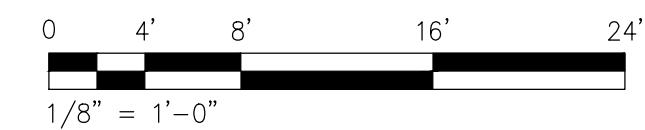
- SPECIAL NOTE**
1. CONTRACTOR TO RE-USE EXISTING SURFACE MOUNTED RACENAY. PROVIDE NEW RACENAY AND/OR ANY REPLACEMENTS IN THE EVENT OF DAMAGE TO MATCH EXISTING RACENAY (HUBBELL).

MARK FORTIE, RCDD

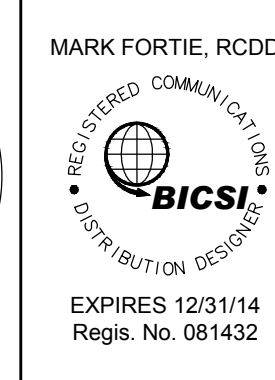
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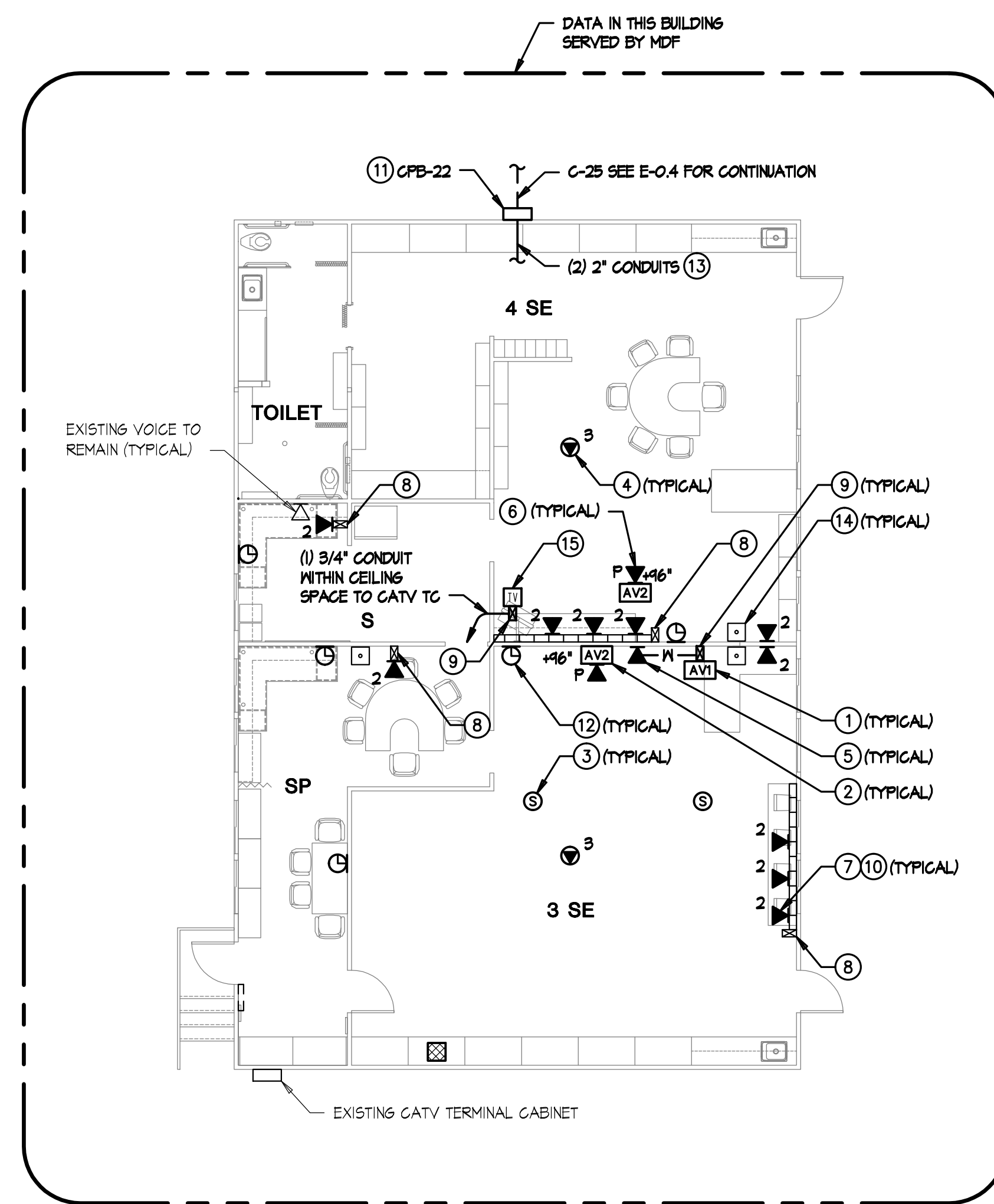
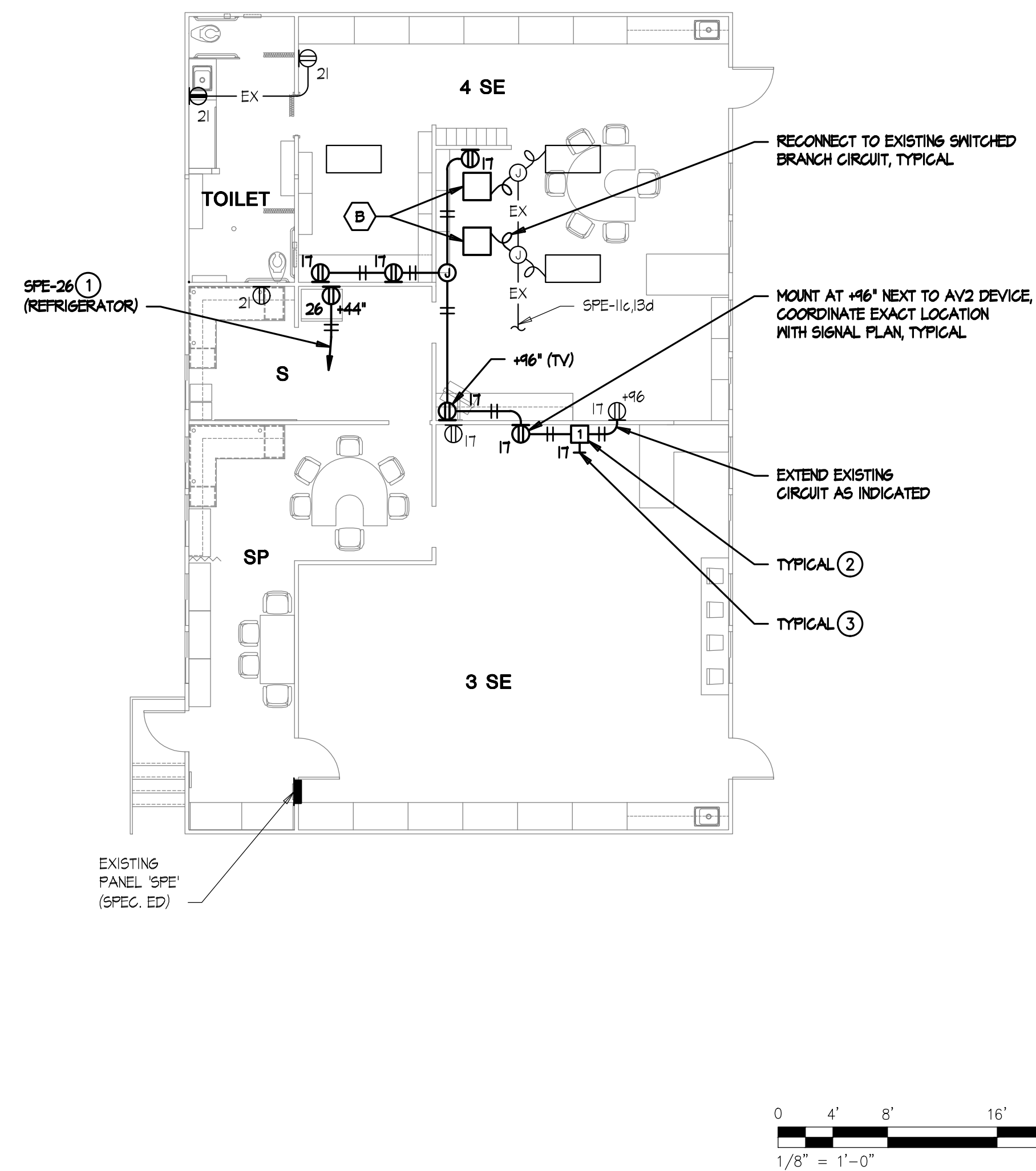
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I. CONTRACTOR TO RE-USE EXISTING SURFACE MOUNTED RACEWAY. PROVIDE NEW RACEWAY AND/OR ANY REPLACEMENTS IN THE EVENT OF DAMAGE TO MATCH EXISTING RACEWAY (HUBBELL).





POWER PLAN KEYNOTES

- ① CONNECT TO EXISTING 20 AMP 1-POLE CIRCUIT BREAKER IN EXISTING PANEL.
- ② MOUNT TOP OF BOX 2" BELOW CEILING LINE, COORDINATE EXACT LOCATION WITH AV CONTRACTOR, TYPICAL.
- ③ 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR SPEAKER WIRING, COORDINATE EXACT LOCATION WITH AV CONTRACTOR, TYPICAL.

SIGNAL PLAN KEYNOTES

1. CONTRACTOR TO RE-USE EXISTING SURFACE MOUNTED RACEWAY. PROVIDE NEW RACEWAY AND/OR ANY REPLACEMENTS IN THE EVENT OF DAMAGE TO MATCH EXISTING RACEWAY (HUBBELL).

REVISIONS

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DATE: **DATE?** PRELIMINARY DRAWINGS ☐
 TIME: **TIME?** PROGRESS DRAWINGS ☐
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DESCRIPTION

BUILDING E POWER/SIGNAL PLANS

DATE

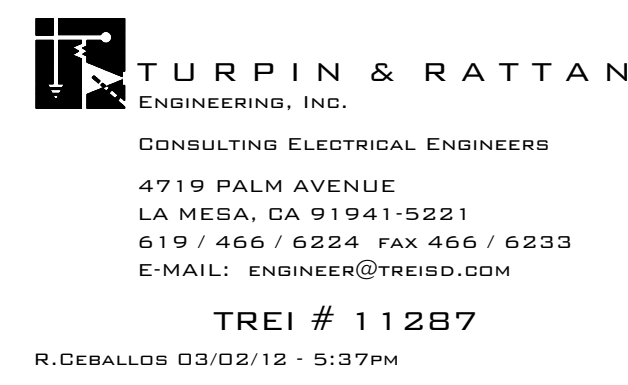
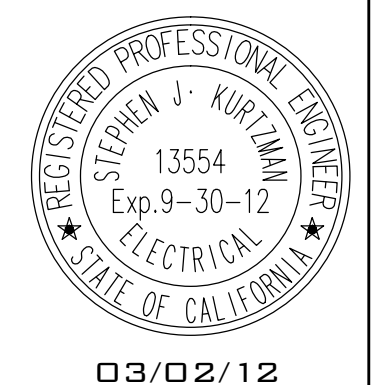
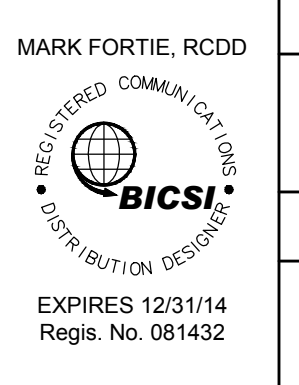
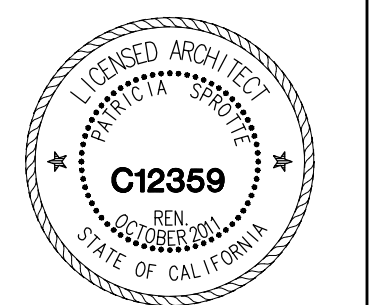
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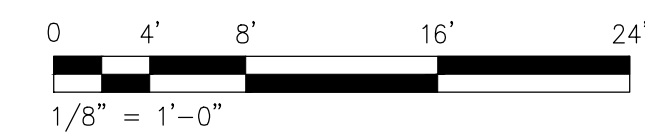
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ARCHITECTURE PLANNING

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CAJON VALLEY UNION SCHOOL DISTRICT
12151 CALLE ALBARA
EL CAJON, CALIFORNIA 92019



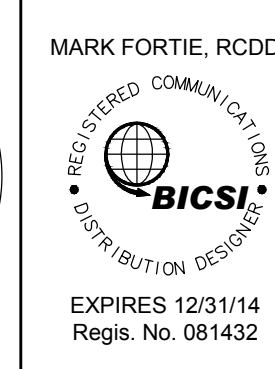


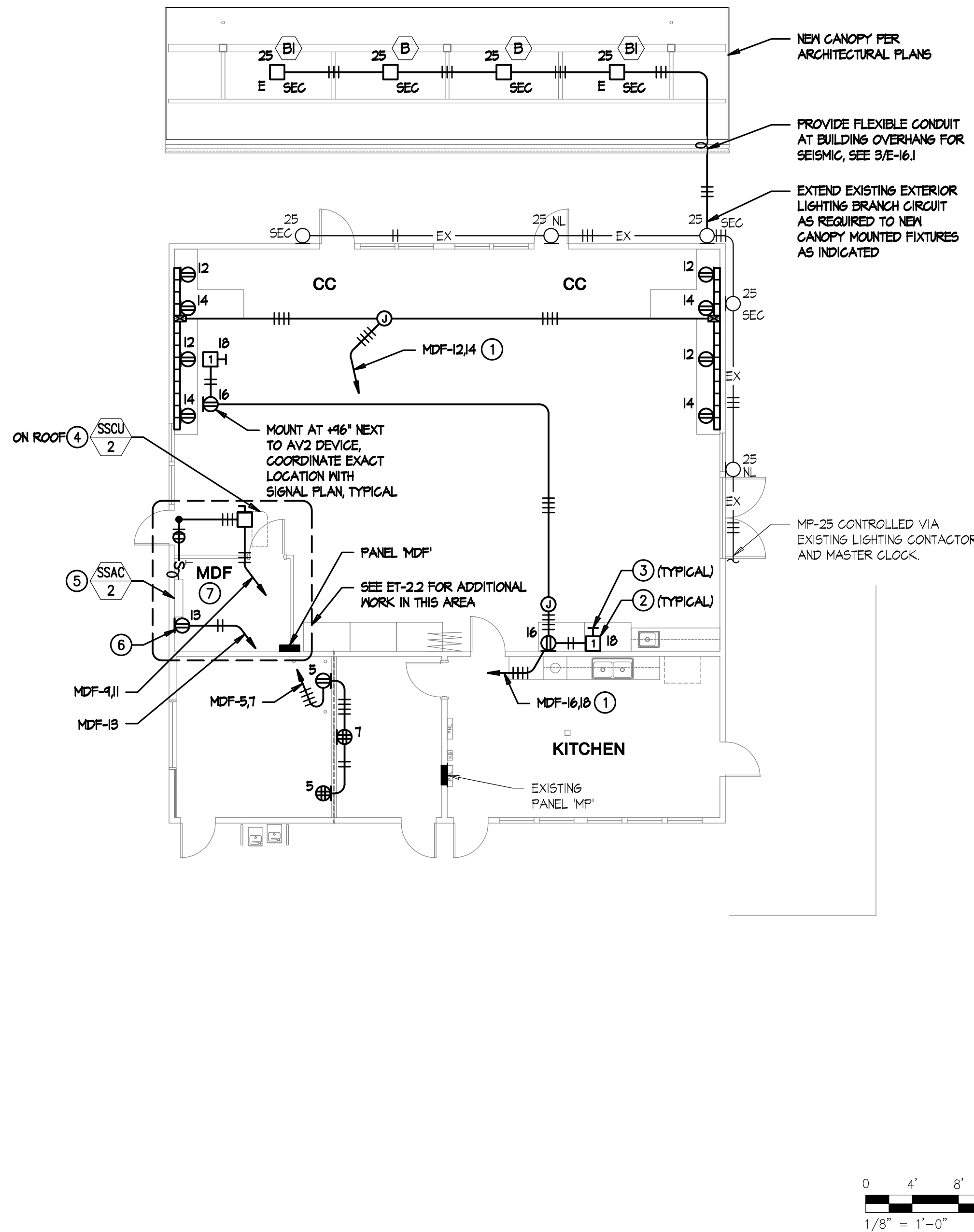
BUILDING G & H - CLASSROOM 13,14,15 - POWER PLANS



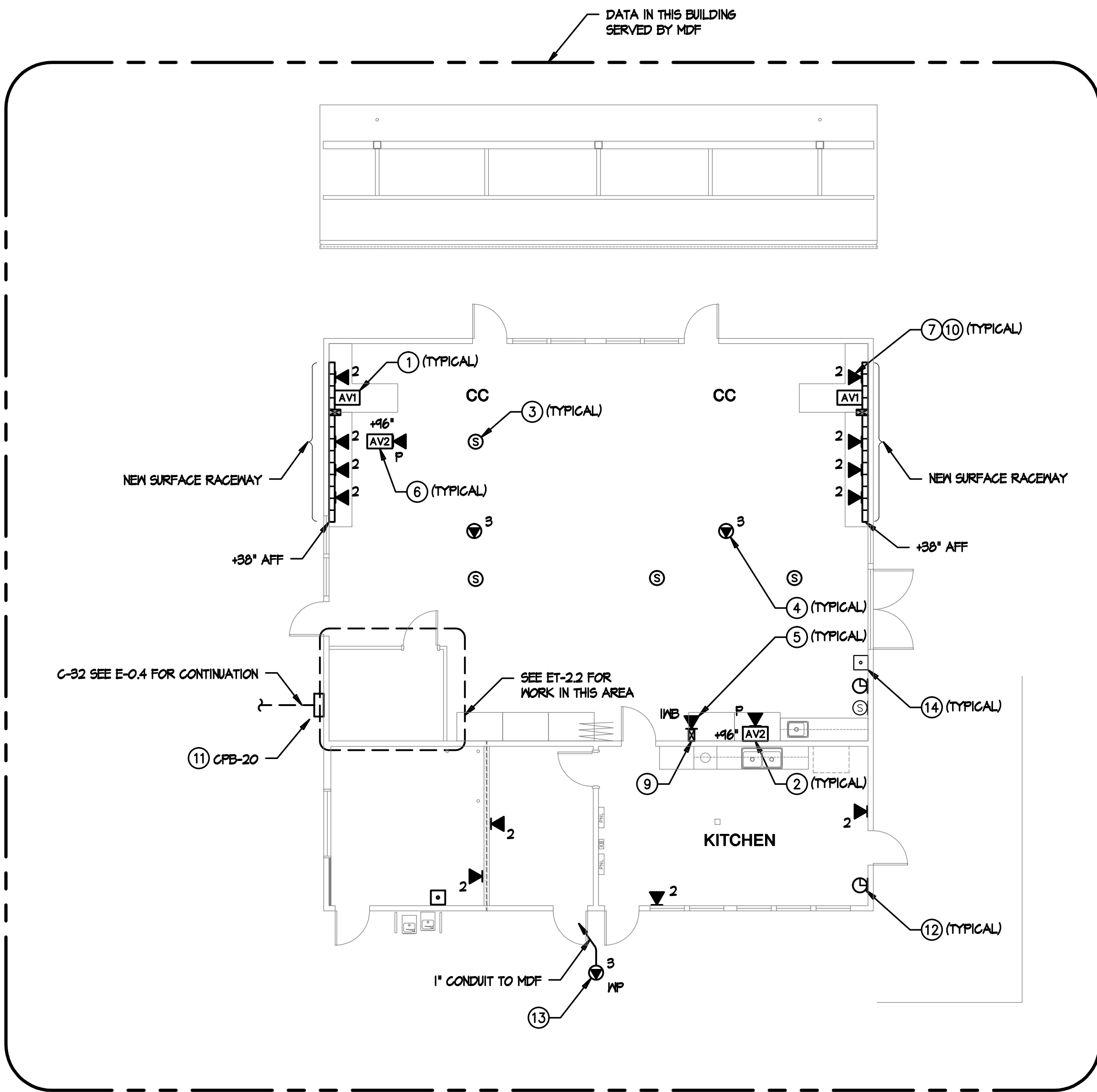
BUILDING G & H - CLASSROOM 13,14,15 - SIGNAL PLANS

1. CONTRACTOR TO RE-USE EXISTING SURFACE MOUNTED RACEWAY. PROVIDE NEW RACEWAY AND/OR ANY REPLACEMENTS IN THE EVENT OF DAMAGE TO MATCH EXISTING RACEWAY (HUBBELL).





BUILDING I - POWER PLAN



BUILDING I - SIGNAL PLAN

POWER PLAN KEYNOTES

- 1 CONNECT TO EXISTING 20 AMP 1-POLE CIRCUIT BREAKER IN EXISTING PANEL.
- 2 MOUNT TOP OF BOX 2" BELOW CEILING LINE, COORDINATE EXACT LOCATION WITH AV CONTRACTOR, TYPICAL.
- 3 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR SPEAKER WIRING, COORDINATE EXACT LOCATION WITH AV CONTRACTOR, TYPICAL.
- 4 PROVIDE NEMA 3R, 30AS/30AF/2P DISCONNECT SWITCH ON ROOF FOR CONDENSING UNIT. PROVIDE 3/4"-3/82 DOWN TO FAN COIL UNIT IN IDF ROOM. PATCH/REPAIR/SEAL ROOF PENETRATION.
- 5 PROVIDE NEMA 1, DPST 208 VOLT MOTOR RATED SWITCH WITH THERMAL OVERLOAD PROTECTION AND FINAL CONNECTION TO FAN COIL UNIT. FAN COIL UNIT POWERED THROUGH CONDENSING UNIT.
- 6 PROVIDE RECEPTACLE NEXT TO FAN COIL UNIT FOR CONDENSATE PUMP CONNECTION.
- 7 PROVIDE NEW POWER OUTLETS FOR MDF. SEE B/ET-2.2 ADDITIONAL POWER REQUIREMENTS.

SIGNAL PLAN KEYNOTES

- 1 AV1 OUTLET MOUNTED AT TEACHER'S STATION LOCATION (+42" AFF). SEE ET-5.4 FOR DETAILS.
- 2 AV2 OUTLET MOUNTED AT SHORT-THROW PROJECTOR LOCATION (+46" AFF). SEE ET-5.4 FOR DETAILS.
- 3 AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
- 4 (B) PORT CATEGORY 6 CEILING MOUNTED DATA OUTLET FLUSH IN CEILING TILE DESIGNATED FOR WIRELESS NETWORK.
- 5 (I) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. USE EXISTING DATA OUTLET LOCATION CLOSEST TO CENTER OF THE TEACHING MALL.
- 6 (I) PORT CATEGORY 6 DATA OUTLET AT +46" A.F.F. DESIGNATED FOR PROJECTOR MONITORING. CONTRACTOR TO COORDINATE EXACT LOCATION WITH SHORT-THROW PROJECTOR MOUNTING PLATE.
- 7 (2) PORT CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 DATA JACK AND CABLE TO IDF. UTILIZE EXISTING RACEWAY FOR INSTALLATION. SEE RISER DIAGRAM A/ET-1.3 FOR DETAILS.
- 8 EXISTING MULTI-CHANNEL SURFACE RACEWAY INTO CEILING SPACE.
- 9 NEW MULTI-CHANNEL SURFACE RACEWAY INTO CEILING SPACE. PROVIDE EXTRN 2-6/ANSI BMB SERIES MALL BOX FOR AV INTERFACE. SEE DETAIL B/ET-5.4.
- 10 SEE A/B/ET-5.3 FOR LABELING DETAILS.
- 11 SEE D/ET-5.3 FOR LABELING DETAILS.
- 12 DISTRICT PROVIDED GPS/SATELLITE CLOCK.
- 13 EXTERIOR WIRELESS ACCESS POINT DATA OUTLET MOUNTED IN OVERHANG.
- 14 EXISTING PHONE (BOGEN HANDSET).

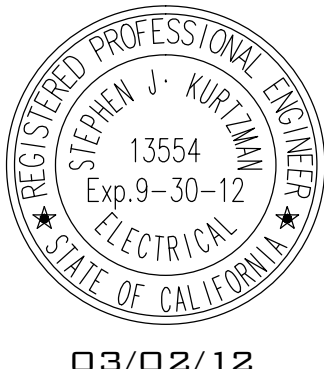
SPECIAL NOTE

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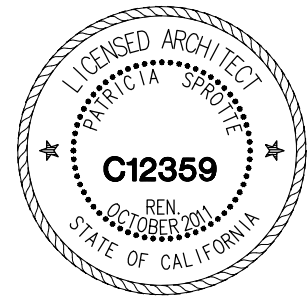
1/8" = 1'-0"

TURPIN & RATTAN
ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
4719 PALM AVENUE
LA MECA, CA 91941-5221
619 / 465 / 6224 FAX 665 / 6233
E-MAIL: ENGINEER@TRED.COM
TREI # 11287
R. CEBALLOS 03/02/12 5:37PM



MARK FORTIE, RCDD
REGISTERED COMMUNICATIONS DESIGNER
BICSJ
EXPIRES 12/31/14
Regis. No. 081432

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ARCHITECTURE PLANNING
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CONSULTANT

REVISIONS

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DATE: 03/01/12
BY: Sprotte Watson
CHECKED: Sprotte Watson
DESIGNED: Sprotte Watson
DRAWN: Sprotte Watson
DATE: 03/01/12
BY: Sprotte Watson
CHECKED: Sprotte Watson
DESIGNED: Sprotte Watson
DRAWN: Sprotte Watson

APPROVALS

DESCRIPTION

**BUILDING I
POWER/SIGNAL
PLANS**

DATE

03-01-12

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11287

SHEET #

E-6.1



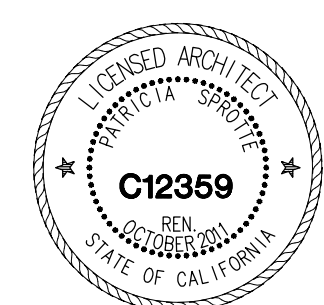
BUILDING J & K - CLASSROOM 20,21,22 - SIGNAL PLAN

- SPECIAL NOTE**
- I. CONTRACTOR TO RE-USE EXISTING SURFACE MOUNTED RACEMAY. PROVIDE NEW RACEMAY AND/OR ANY REPLACEMENTS IN THE EVENT OF DAMAGE TO MATCH EXISTING RACEMAY (HUBBELL).



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DATE DATE?	PRELIMINARY DRAWINGS	☐
TIME TIME?	PROGRESS DRAWINGS	☐
	CHECK DRAWINGS	☐
	INFORMATION DRAWINGS	☐

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APPROVALS

DESCRIPTION

**BUILDING G & H
CLASSROOM
20,21,22
POWER/SIGNAL
PLANS**

DATE _____

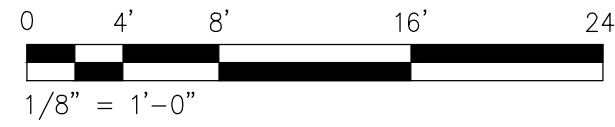
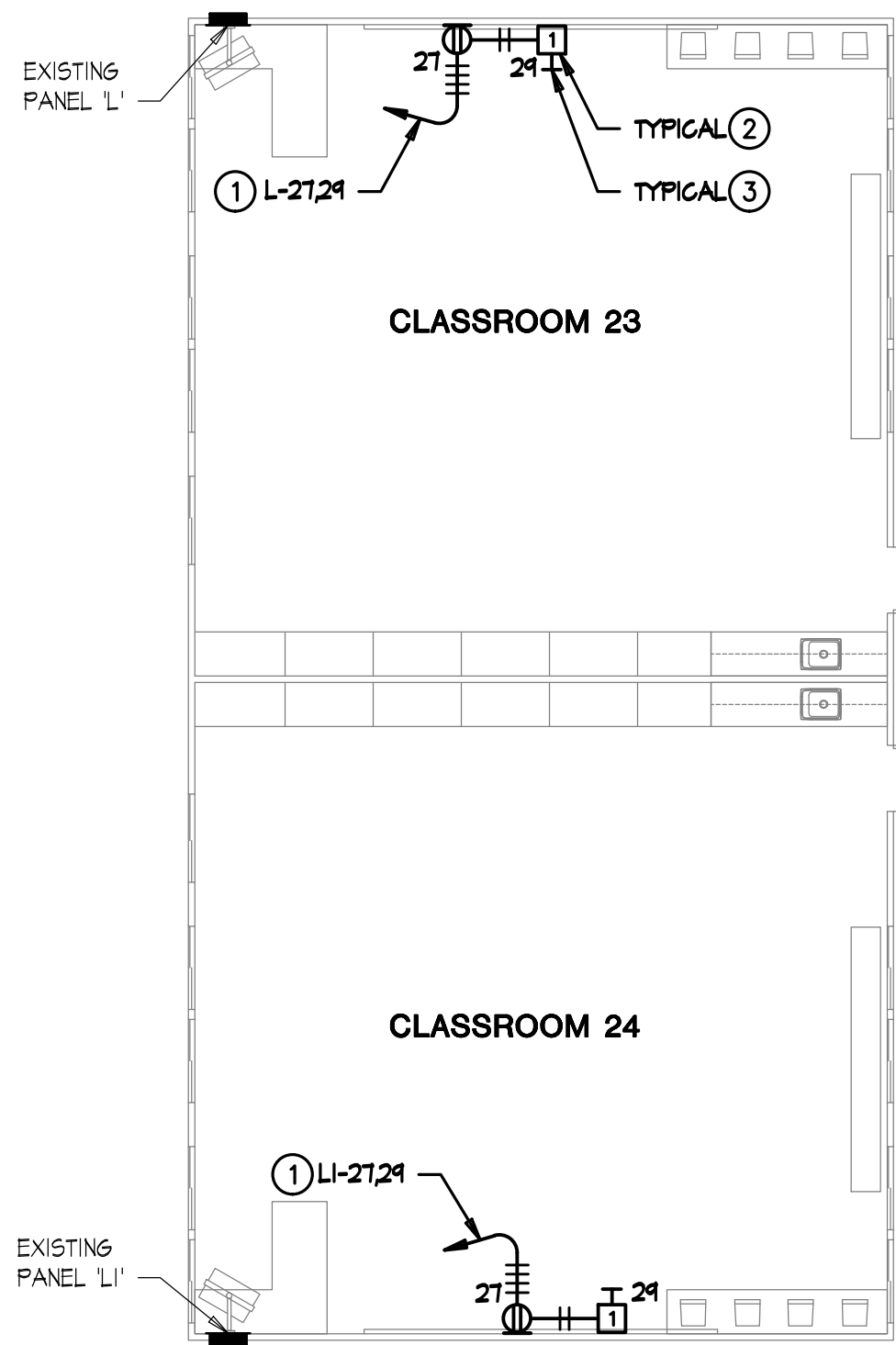
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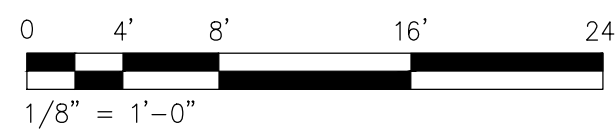
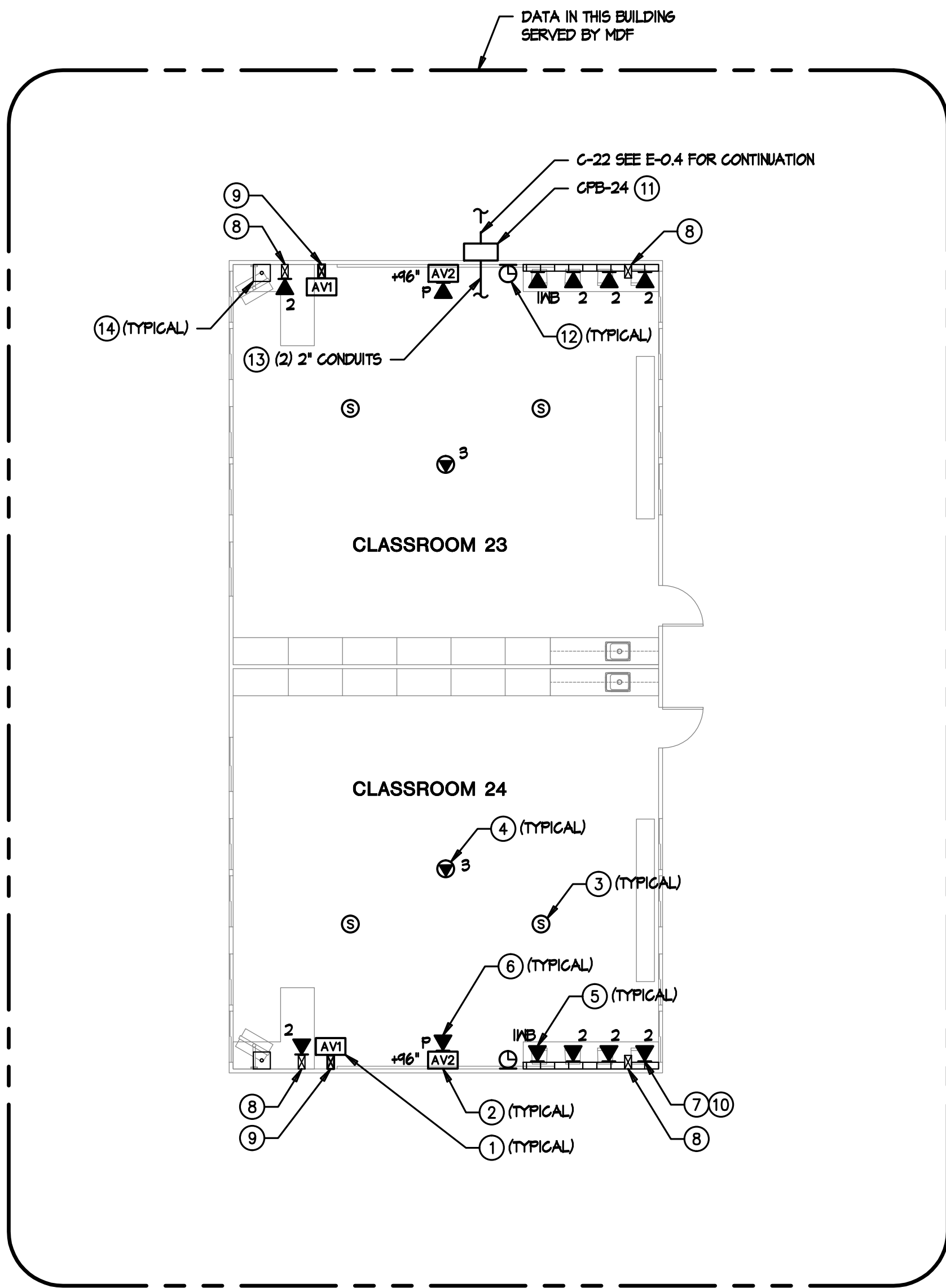
11287

SHEET #

E-7.1



BUILDING L - CLASSROOM 23,24 - POWER PLAN



BUILDING L - CLASSROOM 23,24 - SIGNAL PLAN

POWER PLAN KEYNOTES

- CONNECT TO EXISTING 20 AMP 1-POLE CIRCUIT BREAKER IN EXISTING PANEL.
- MOUNT TOP OF BOX 2" BELOW CEILING LINE, COORDINATE EXACT LOCATION WITH AV CONTRACTOR, TYPICAL.
- 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR SPEAKER WIRING, COORDINATE EXACT LOCATION WITH AV CONTRACTOR, TYPICAL.

SIGNAL PLAN KEYNOTES

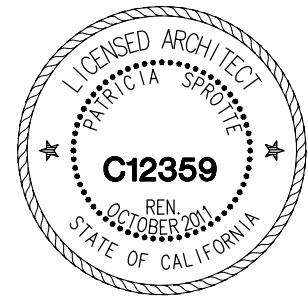
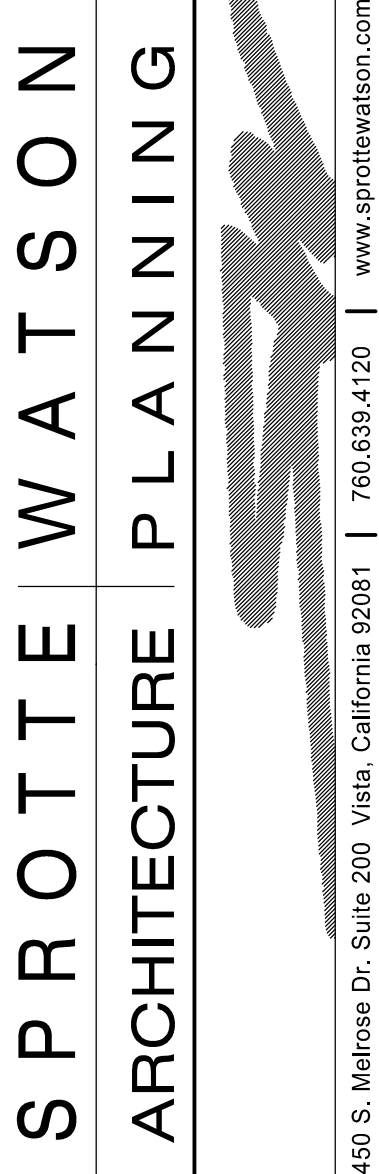
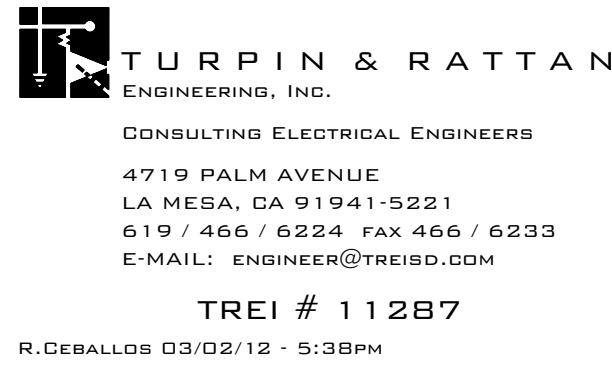
- AV1 OUTLET MOUNTED AT TEACHER'S STATION LOCATION (+42" AFF). SEE ET-5.4 FOR DETAILS.
- AV2 OUTLET MOUNTED AT SHORT-THROW PROJECTOR LOCATION (+46" AFF). SEE ET-5.4 FOR DETAILS.
- AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
- (3) PORT CATEGORY 6 CEILING MOUNTED DATA OUTLET FLUSH IN CEILING TILE DESIGNATED FOR WIRELESS NETWORK.
- (1) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. USE EXISTING DATA OUTLET LOCATION CLOSEST TO CENTER OF THE TEACHING MALL.
- (1) PORT CATEGORY 6 DATA OUTLET AT +46" A.F.F. DESIGNATED FOR PROJECTOR MONITORING. CONTRACTOR TO COORDINATE EXACT LOCATION WITH SHORT-THROW PROJECTOR MOUNTING PLATE.
- (2) PORT CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 DATA JACK AND CABLE TO IDF. UTILIZE EXISTING RACEWAY FOR INSTALLATION. SEE RISER DIAGRAM AVET-1.3 FOR DETAILS.
- EXISTING MULTI-CHANNEL SURFACE RACEWAY INTO CEILING SPACE.
- NEW MULTI-CHANNEL SURFACE RACEWAY INTO CEILING SPACE. PROVIDE EXTRON 2-6ANG BMB SERIES WALL BOX FOR AV INTERFACE. SEE DETAIL BIET-5.4.
- SEE AB/ET-5.3 FOR LABELING DETAILS.
- SEE D/ET-5.3 FOR LABELING DETAILS.
- DISTRICT PROVIDED GPS/SATELLITE CLOCK.
- PENETRATE OUTSIDE WALL INTO ACCESSIBLE CEILING SPACE ABOVE CEILING GRID. CAULK PENETRATION TO MAINTAIN WALL RATING. SEE DETAIL AVET-5.2 FOR TYPICAL CONNECTION TO HORIZONTAL PATHWAYS.
- EXISTING PHONE (BOGEN HANDSET).

SPECIAL NOTE

- CONTRACTOR TO RE-USE EXISTING SURFACE MOUNTED RACEWAY. PROVIDE NEW RACEWAY AND/OR ANY REPLACEMENTS IN THE EVENT OF DAMAGE TO MATCH EXISTING RACEWAY (HUBBELL).



1/8" = 1'-0"



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APPROVALS

DESCRIPTION

BUILDING L
CLASSROOM
23, 24
POWER/SIGNAL
PLANS

DATE

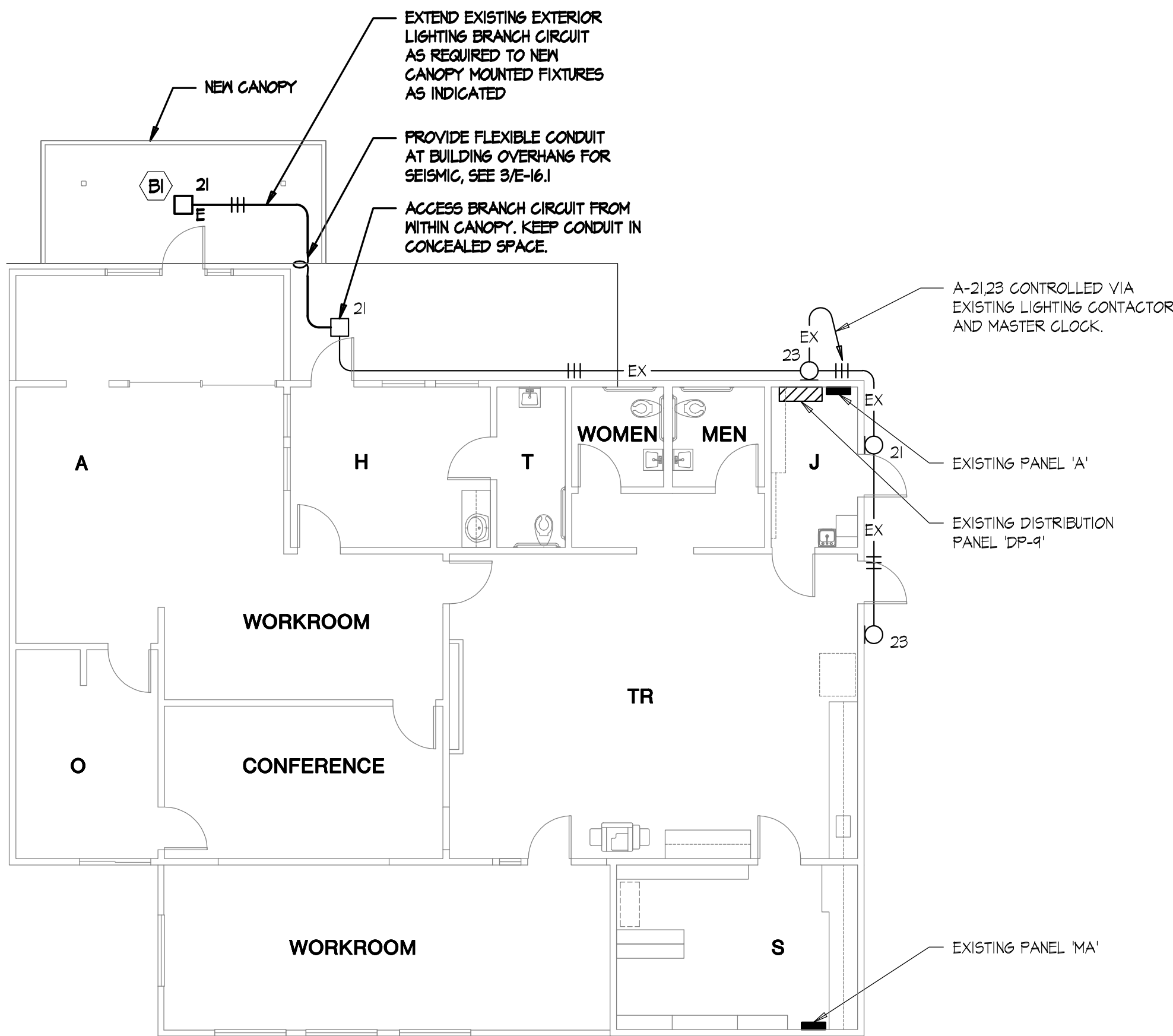
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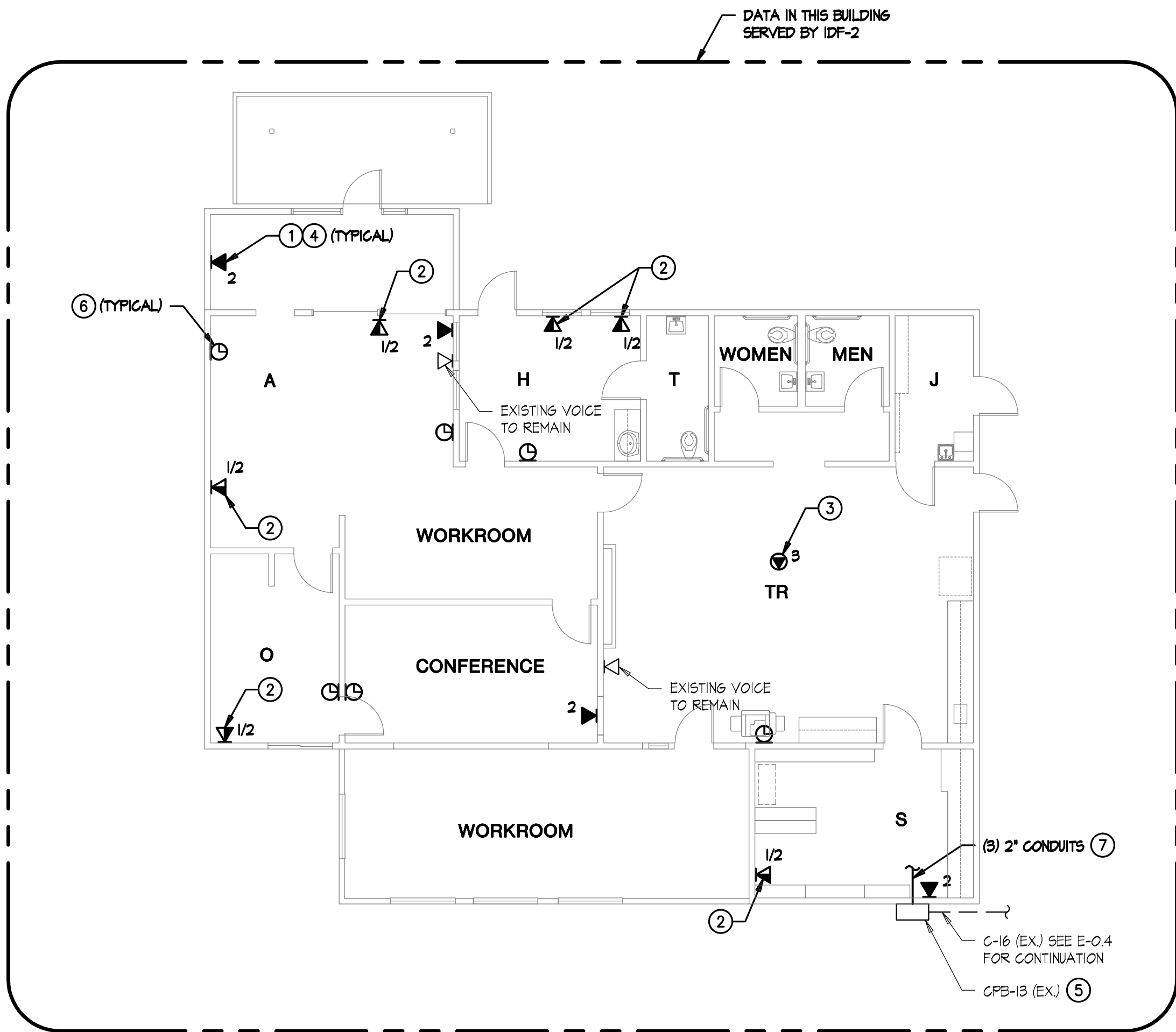
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E-8.1



BUILDING M - POWER PLAN



BUILDING M - SIGNAL PLAN

SIGNAL KEYNOTES

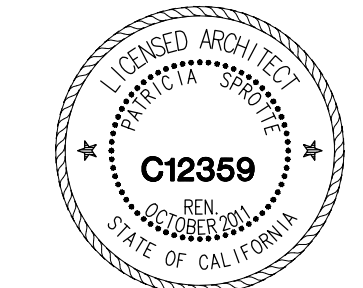
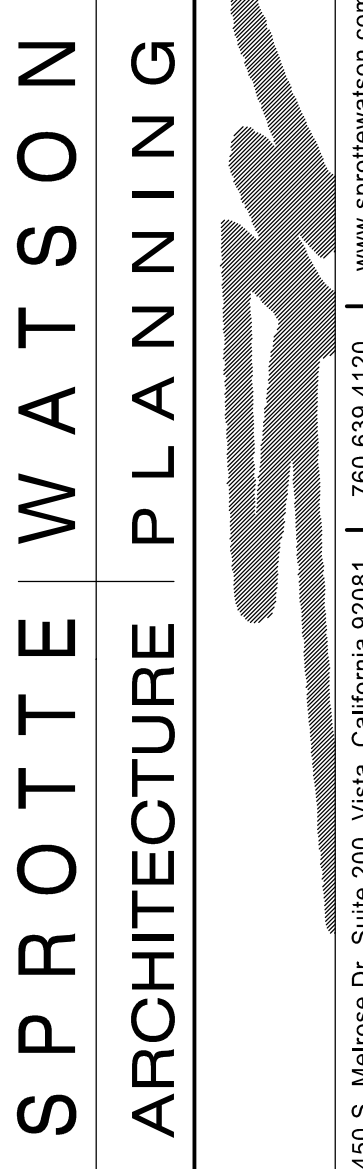
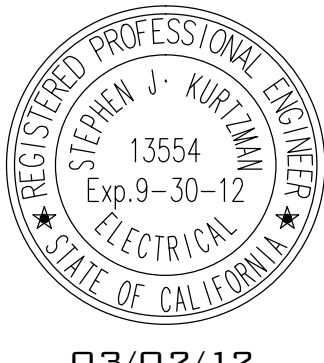
- (2) PORT CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 DATA JACK AND CABLE TO IDF. UTILIZE EXISTING RACEWAY FOR INSTALLATION. SEE RISER DIAGRAM A/EI-1.3 FOR DETAILS
- COMBINATION VOICE/DATA CATEGORY 6 DATA OUTLET. PROVIDE (2) NEW CATEGORY 6 DATA JACKS AND CABLE TO IDF. UTILIZE EXISTING RACEWAY FOR INSTALLATION. SEE RISER DIAGRAM A/EI-1.4 FOR DETAILS
- (3) PORT CATEGORY 6 CEILING MOUNTED DATA OUTLET FLUSH IN CEILING TILE DESIGNATED FOR WIRELESS NETWORK.
- SEE A/EI-1.3.3 FOR LABELING DETAILS.
- SEE D/EI-1.3.3 FOR LABELING DETAILS.
- DISTRICT PROVIDED GPS/SATELLITE GLOCK.
- PENETRATE OUTSIDE WALL INTO ACCESSIBLE CEILING SPACE ABOVE CEILING GRID. CAULK PENETRATION TO MAINTAIN WALL RATING. SEE DETAIL A/EI-1.3.2 FOR TYPICAL CONNECTION TO HORIZONTAL PATHWAYS.

SPECIAL NOTE

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1/8" = 1'-0"



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APPROVALS

DESCRIPTION

BUILDING M
POWER/SIGNAL
PLANS

DATE

03-01-12

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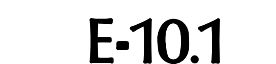
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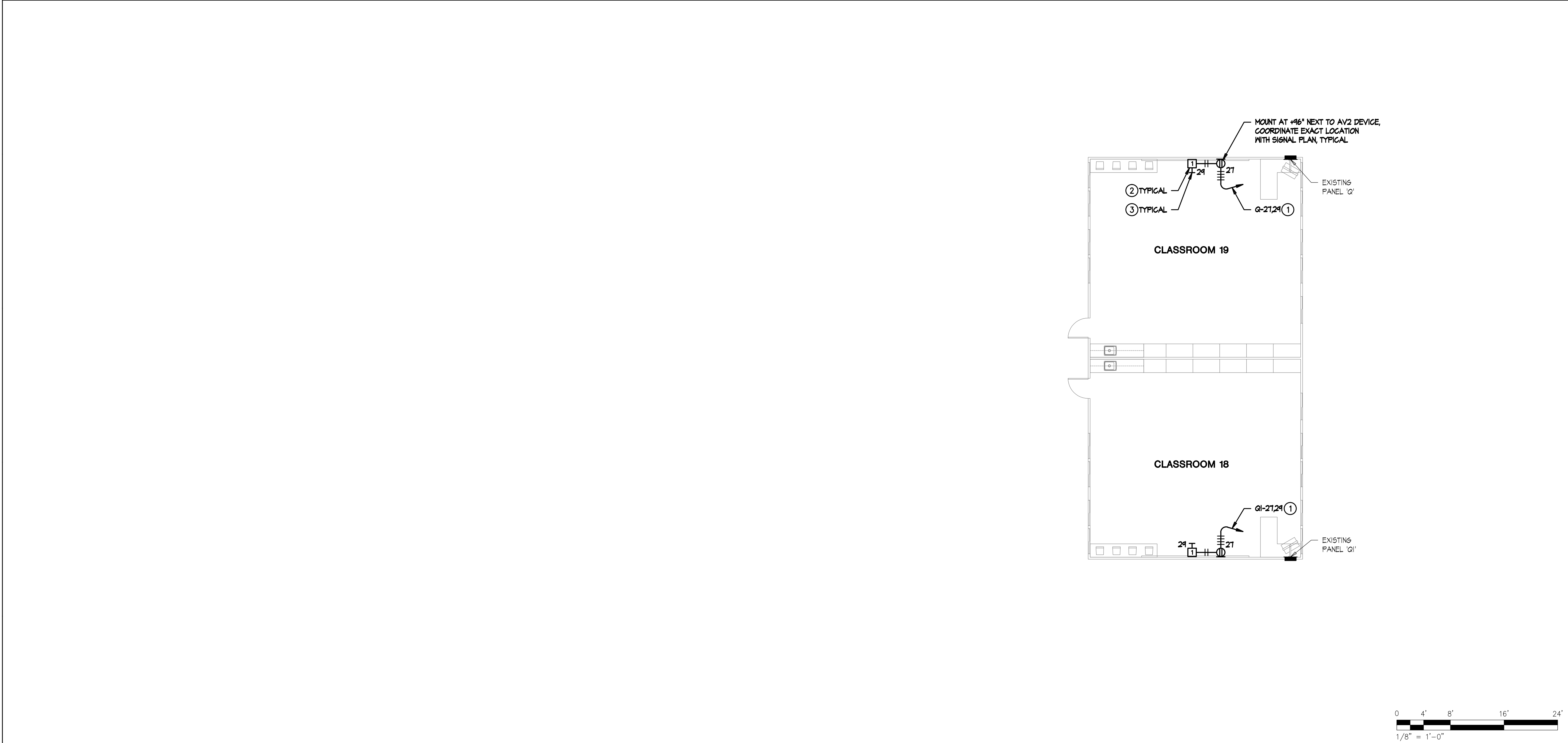
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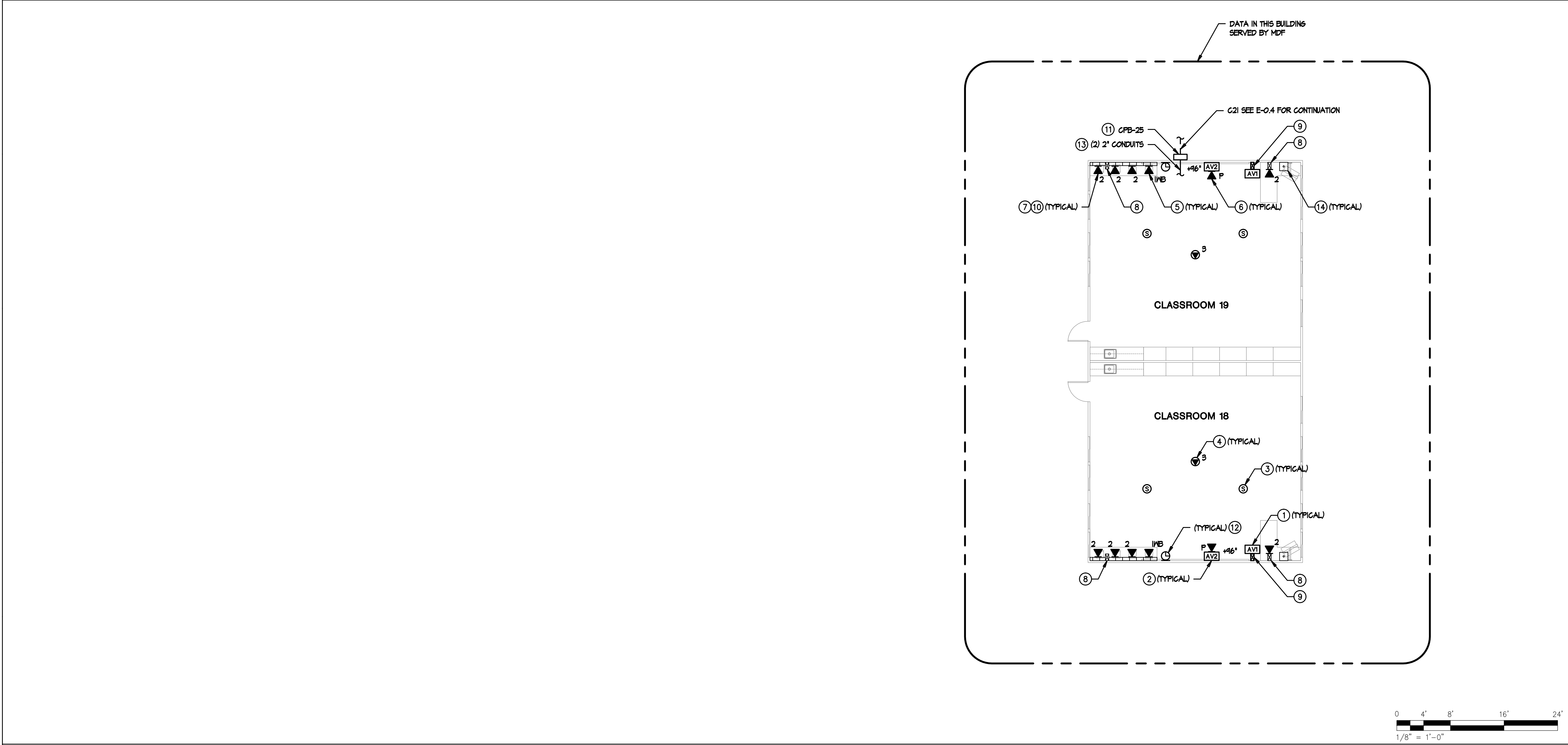


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BUILDING Q - CLASSROOM 18,19 - POWER PLAN



BUILDING Q - CLASSROOM 18,19 - SIGNAL PLAN

POWER PLAN KEYNOTES

- CONNECT TO EXISTING 20 AMP 1-POLE CIRCUIT BREAKER IN EXISTING PANEL.
- MOUNT TOP OF BOX 2" BELOW CEILING LINE, COORDINATE EXACT LOCATION WITH AV CONTRACTOR, TYPICAL.
- 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR SPEAKER WIRING, COORDINATE EXACT LOCATION WITH AV CONTRACTOR, TYPICAL.

SIGNAL PLAN KEYNOTES

- AV1 OUTLET MOUNTED AT TEACHER'S STATION LOCATION (+42" AFF). SEE ET-5.4 FOR DETAILS.
- AV2 OUTLET MOUNTED AT SHORT-THROW PROJECTOR LOCATION (+46" AFF). SEE ET-5.4 FOR DETAILS.
- AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
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- (2) PORT CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 DATA JACK AND CABLE TO IDF. UTILIZE EXISTING RACEWAY FOR INSTALLATION. SEE RISER DIAGRAM A/E1-1.3 FOR DETAILS.
- EXISTING MULTI-CHANNEL SURFACE RACEWAY INTO CEILING SPACE.
- NEW MULTI-CHANNEL SURFACE RACEWAY INTO CEILING SPACE. PROVIDE EXTRN 2-6ANG BMB SERIES WALL BOX FOR AV INTERFACE. SEE DETAIL B/E1-5.4.
- SEE A/B/E1-5.3 FOR LABELING DETAILS.
- SEE D/E1-5.3 FOR LABELING DETAILS.
- DISTRICT PROVIDED GPS/SATELLITE CLOCK.
- PENETRATE OUTSIDE WALL INTO ACCESSIBLE CEILING SPACE ABOVE CEILING GRID. CAULK PENETRATION TO MAINTAIN WALL RATING. SEE DETAIL A/E1-5.2 FOR TYPICAL CONNECTION TO HORIZONTAL PATHWAYS.
- EXISTING PHONE (BOGEN HANDSET).

SPECIAL NOTE

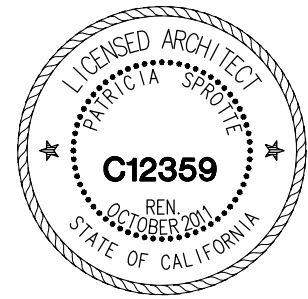
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NORTH

TURPIN & RATTAN
ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
4719 PALM AVENUE
LA MEESA, CA 91941-5521
619 / 465 / 6224 FAX 665 / 6233
E-MAIL: ENGINEER@TREID.COM
TREI # 11287
R. CEBALLOS 03/02/12 5:38PM

REGISTERED PROFESSIONAL ENGINEER
STEPHEN J. KURTZ
No. 13554
Exp. 9-30-12
ELECTRICAL
STATE OF CALIFORNIA

REGISTERED COMMUNICATIONS SPECIALIST
MARK FORTIE, RCDD
BICSI
No. 081432
EXPIRES 12/31/14



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REVISIONS

DATE	DESCRIPTION
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APPROVALS

DESCRIPTION

BUILDING Q
CLASSROOM 18,19
POWER/SIGNAL
PLANS

DATE

03-01-12

JOB #

11287

SHEET #

E-11.1



BUILDING F- BOYS' AND GIRLS' RESTROOMS - SIGNAL PLANS



BUILDING R - BOYS' AND GIRLS' RESTROOMS - SIGNAL PLANS

- ① SEE D/ET-5.3 FOR LABELING DETAILS.
- ② PENETRATE OUTSIDE WALL INTO ACCESSIBLE CEILING SPACE ABOVE CEILING GRID. CAULK PENETRATION TO MAINTAIN WALL RATING. SEE DETAIL A/ET-5.2 FOR TYPICAL CONNECTION TO HORIZONTAL PATHWAYS.

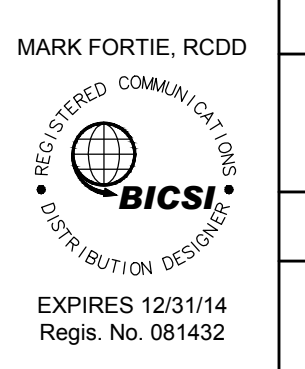
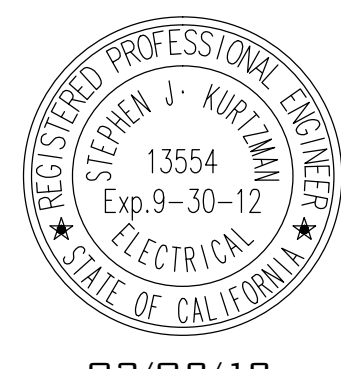
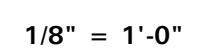


BUILDING F- BOYS' AND GIRLS' RESTROOMS - SIGNAL PLANS



BUILDING R - BOYS' AND GIRLS' RESTROOMS - SIGNAL PLANS

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N VALLEY UNION SCHOOL DISTRICT
12151 CALLE ALBARA
EL CAJON, CALIFORNIA 92019

NOT FOR CONSTRUCTION
 THESE PLANS HAVE BEEN PRINTED PRIOR TO ISSUANCE
 OF A BUILDING PERMIT AND ARE SUBJECT TO CHANGE

DATE DATE?	PRELIMINARY DRAWINGS	☐
	PROGRESS DRAWINGS	☐
TIME TIME?	CHECK DRAWINGS	☐
	INFORMATION DRAWINGS	☐

Sprotte Watson
 Architecture and Planning
 350 S. Melrose Dr., Suite 200, Vista, CA 92081

**BUILDING F & R
BOYS' AND GIRLS'
RESTROOMS
POWER/SIGNAL**

03-01-12

IOR #

11287

SHEET #

5121