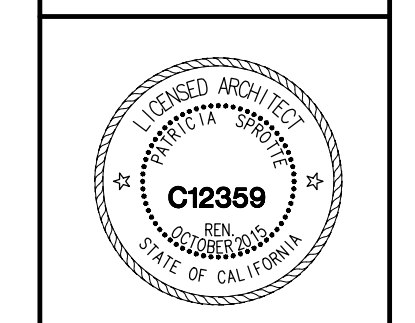


KEYNOTES

① CONTRACTOR SHALL FURNISH AND INSTALL DMP PASSIVE INFRARED DEVICE WIRED TO BUILDING'S INTRUSION EXPANSION MODULE. TEST TO ENSURE FULL INTRUSION DETECTION FUNCTIONALITY.

SHEET NOTE

I. ALL EXISTING SYSTEMS NOT UPGRADED UNDER THIS CONTRACT SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.



IT UPGRADE YEAR TWO
LOS COCHES CREEK MIDDLE SCHOOL
CAJON VALLEY UNION SCHOOL DISTRICT
9669 DUNBAR LANE
EL CAJON, CA 92021

CONSULTANT

APPROVALS

DESCRIPTION

ELECTRICAL
SITE PLAN

DATE

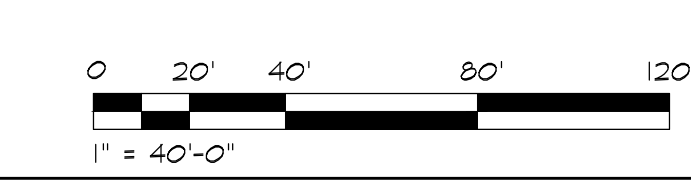
02/14/2014

JOB #

13392

SHEET #

E-10



ELECTRICAL - SITE PLAN

TURPIN & RATTAN
ENGINEERING, INC.
CONSULTING ENGINEERS
4719 PALM AVENUE
LA MESA, CA 91941-5221
619 / 466 / 6224 FAX 466 / 6233
E-MAIL: ENGINEER@TREISD.COM

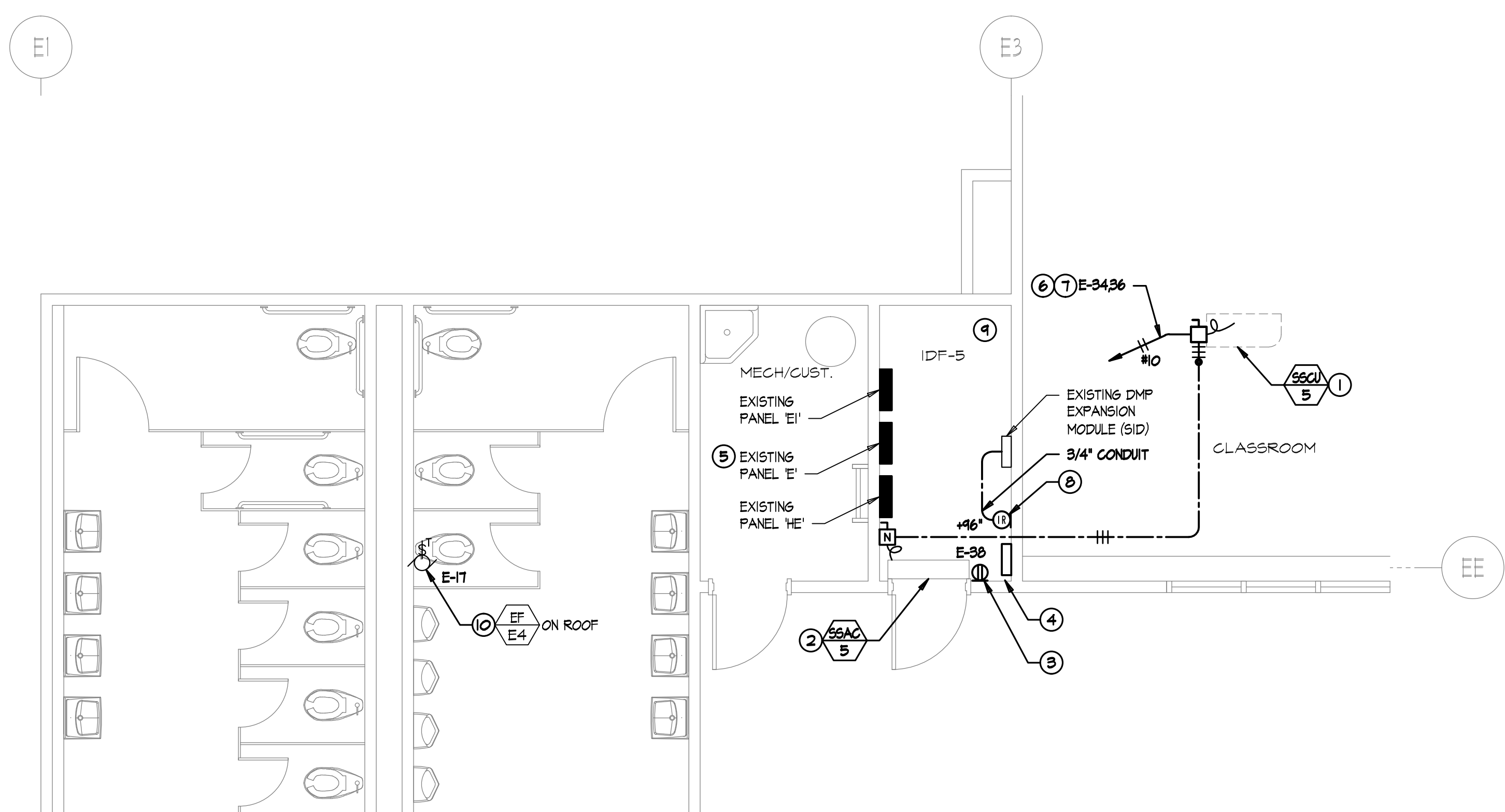
REG. (REGISTERED) PROFESSIONAL ENGINEER
DALE M. FRANKOVICH
No. 11533
exp. 6/30/2014
ELECTRICAL
STATE OF CALIFORNIA

TREI # 13392

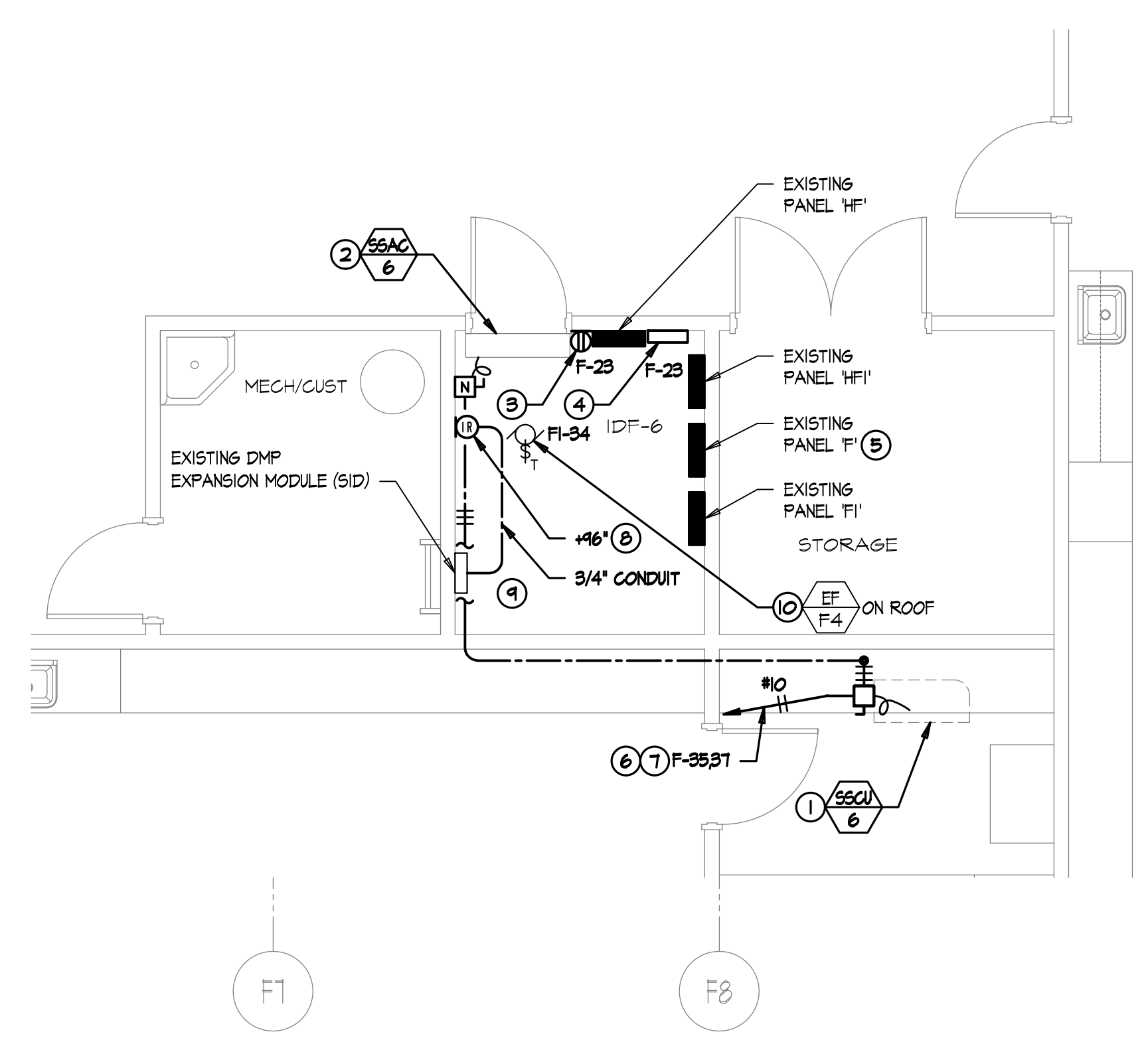
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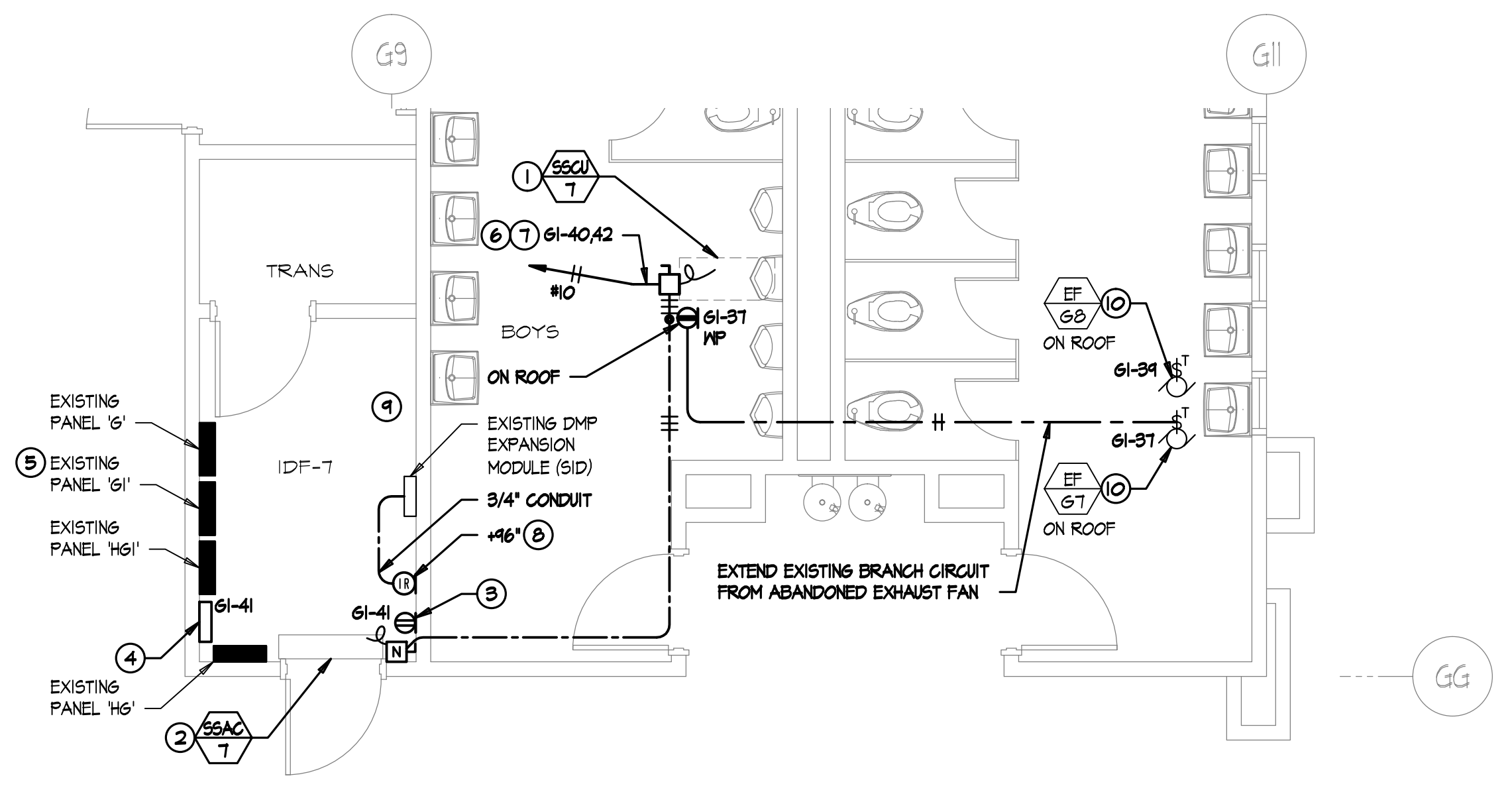
© 1/31/13392\13392.DWG (User:trei)\13392.DWG, E-10.dwg 3/28/14 13:20:21



ENLARGED PLAN - BUILDING E (IDF-5)
SCALE: 1/4" = 1'-0"

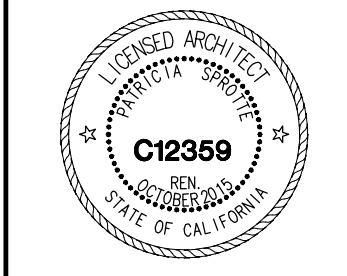


ENLARGED PLAN - BUILDING F (IDF-6)
SCALE: 1/4" = 1'-0"



ENLARGED PLAN - BUILDING G (IDF-7)
SCALE: 1/4" = 1'-0"

- KEYNOTES**
- 1 PROVIDE NEMA 3R, 30A/60A/2P DISCONNECT SWITCH ON ROOF FOR CONDENSING UNIT (SSCU). PROVIDE 3/4" SM12X1/2 E6 DOWN TO FAN COIL UNIT (SSAC) IN IDF ROOM. PATCH/REPAIR/SEAL ROOF PENETRATION. SEE 1/E-21 FOR MOUNTING DISCONNECT SWITCH.
 - 2 PROVIDE NEMA 1, 30A/60A/2P DISCONNECT SWITCH AND FINAL CONNECTION TO FAN COIL UNIT. FAN COIL POWERED AND PROVIDED WITH OVERCURRENT PROTECTION THROUGH CONDENSING UNIT.
 - 3 PROVIDE RECEPTACLE NEXT TO FAN COIL UNIT FOR CONDENSATE PUMP CONNECTION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
 - 4 PROVIDE 120 VOLT CONNECTION TO TEMPERATURE CONTROL PANEL (TCP). CONNECT TO SAME BRANCH CIRCUIT SERVING CONDENSATE PUMP.
 - 5 SEE RESPECTIVE PANEL SCHEDULE ON SHEET E-31 FOR ADDITIONAL WORK AT EXISTING PANEL.
 - 6 SUPPORT CONDUIT ON ROOF (WIRE TO BE THIN-2 90° RATED). FOR CONDUIT SUPPORT SEE DETAIL 3/E-21.
 - 7 SEAL ALL CONDUIT PENETRATIONS THROUGH WALLS. SEE 4/E-21 WHEN FIRE RATING IS REQUIRED, TYPICAL.
 - 8 FURNISH AND INSTALL NEW DMP IR INTRUSION DEVICE. CONNECT TO BUILDING'S EXISTING DMP EXPANSION MODULE. SEE INTRUSION RISER DIAGRAM 1/E1-11 FOR DETAILS. TEST NEW IR DEVICE TO ENSURE FULL FUNCTIONALITY.
 - 9 CONTRACTOR SHALL FURNISH AND INSTALL (1) CATEGORY 6 PATCH CORD FROM NEW HVAC SPLIT SYSTEM CONTROLS TO IDF RACK. DISTRICT SHALL MAKE FINAL CONNECTION TO NETWORK SWITCH TO PROVIDE NETWORK CONNECTIVITY. SEE MECHANICAL PLANS FOR EXACT LOCATION OF HVAC CONTROLS.
 - 10 DISCONNECT EXISTING BRANCH CIRCUIT FROM EXISTING EXHAUST FAN AND ASSOCIATED 120 VOLT THERMOSTAT CONTROL. FAN TO BE ABANDONED IN PLACE. COORDINATE WORK WITH MECHANICAL CONTRACTOR.
 - 11 DISCONNECT EXISTING BRANCH CIRCUIT FROM EXISTING EXHAUST FAN AND ASSOCIATED 120 VOLT THERMOSTAT CONTROL. FAN TO BE REMOVED. COORDINATE WORK WITH MECHANICAL CONTRACTOR.



CONSULTANT

APPROVALS

DESCRIPTION

ENLARGED PLANS
IDF-5,
IDF-6 & IDF-7

DATE

02/14/2014

JOB #

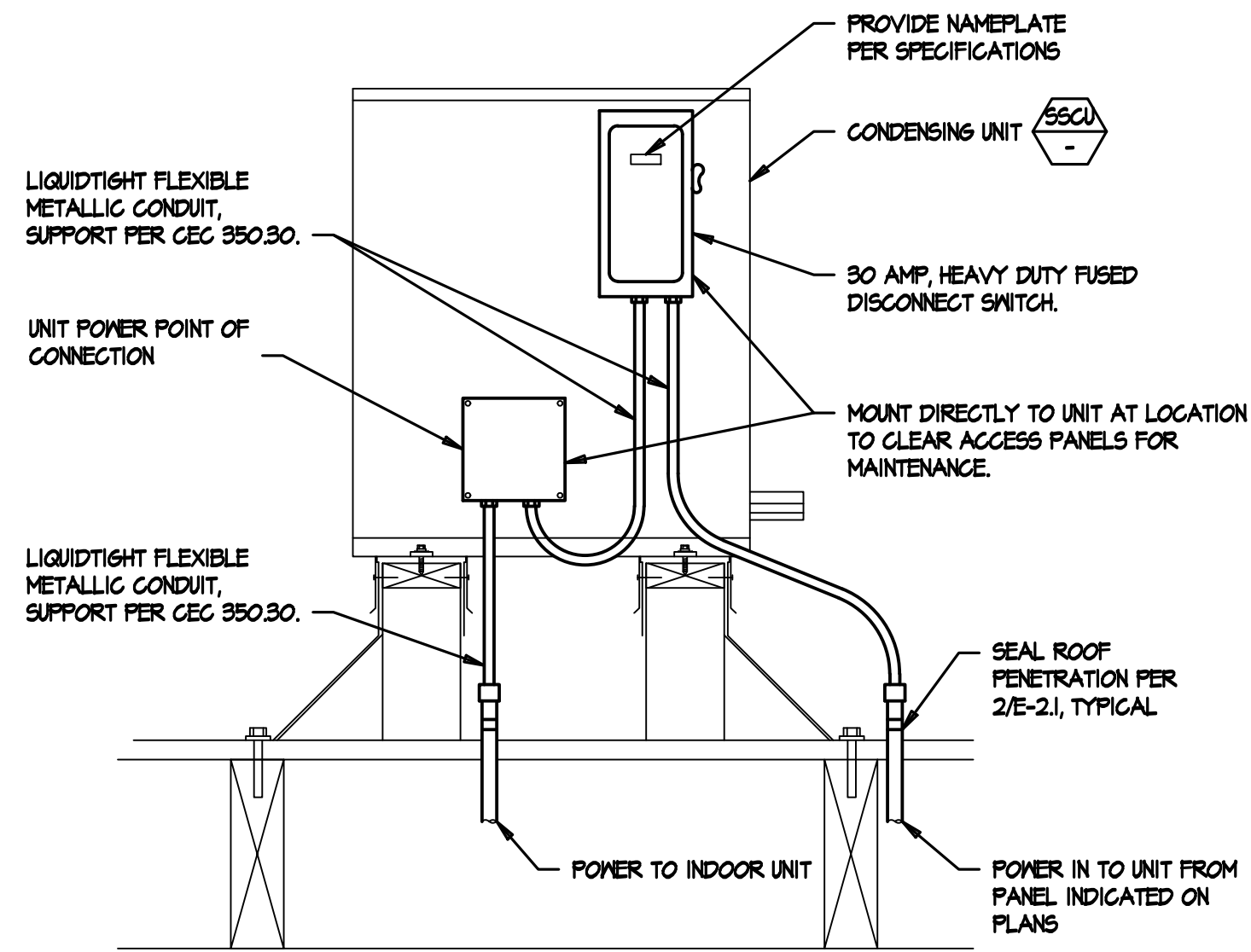
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SHEET #

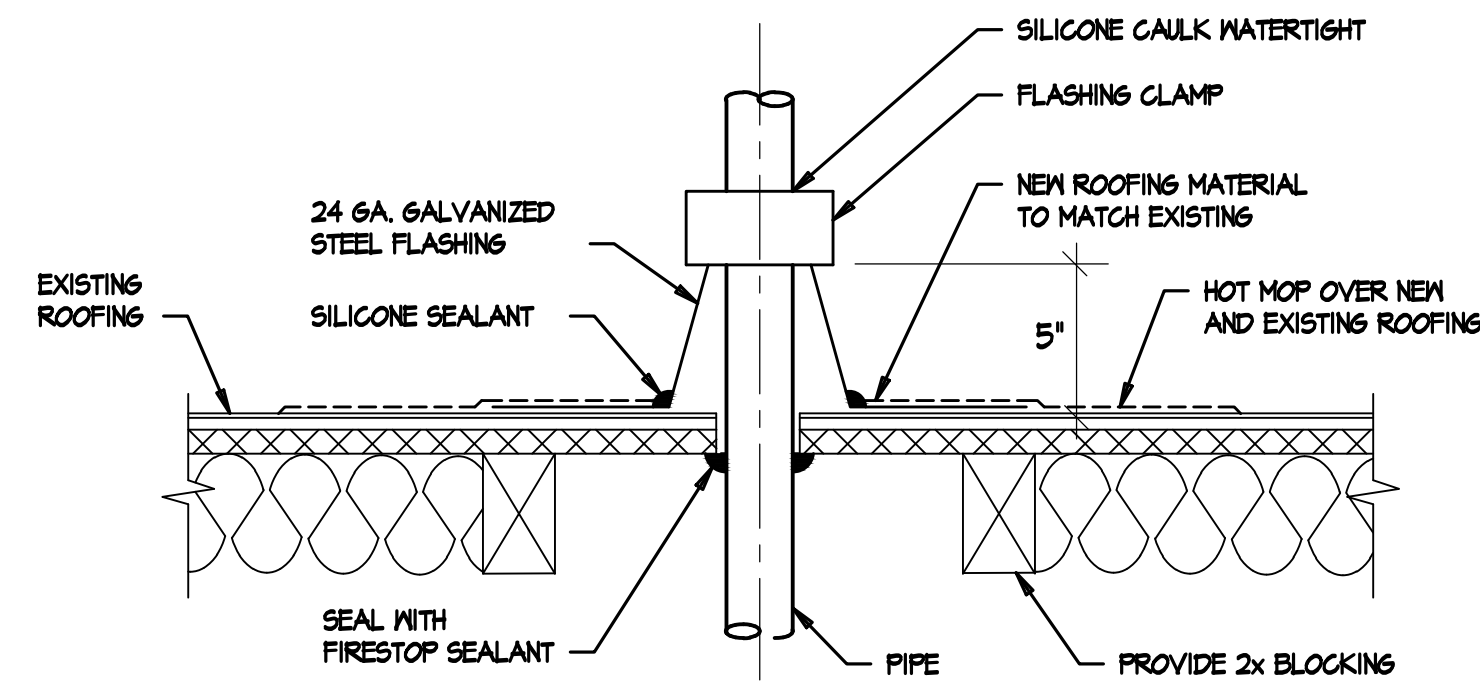
E-12

TURPIN & RATTAN
 ENGINEERING, INC.
 CONSULTING ENGINEERS
 4719 PALM AVENUE
 LA MESA, CA 91941-5221
 619 / 466 / 6224 FAX 466 / 6233
 E-MAIL: ENGINEER@TREISD.COM
 TREI # 13392

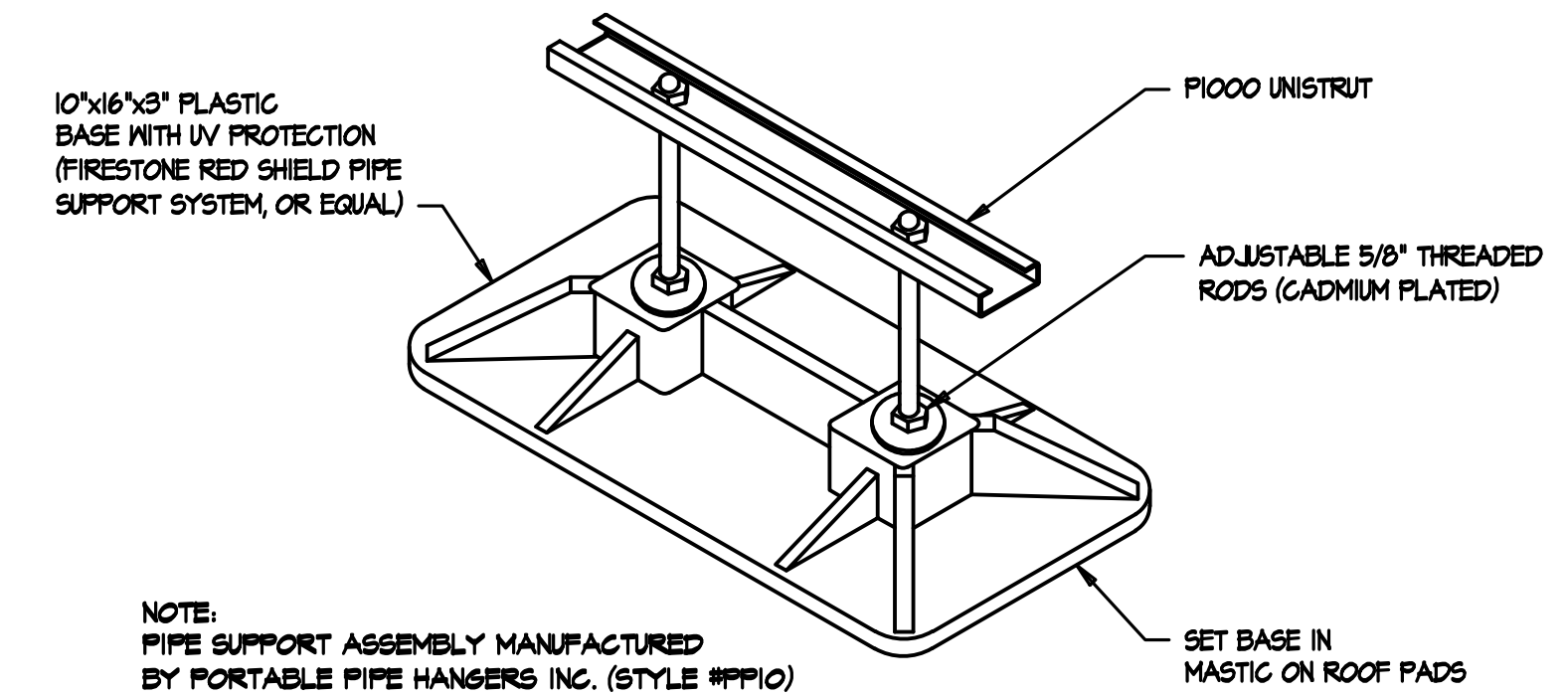




DISCONNECT SWITCH MOUNTING DETAIL 1
NO SCALE E-2.1

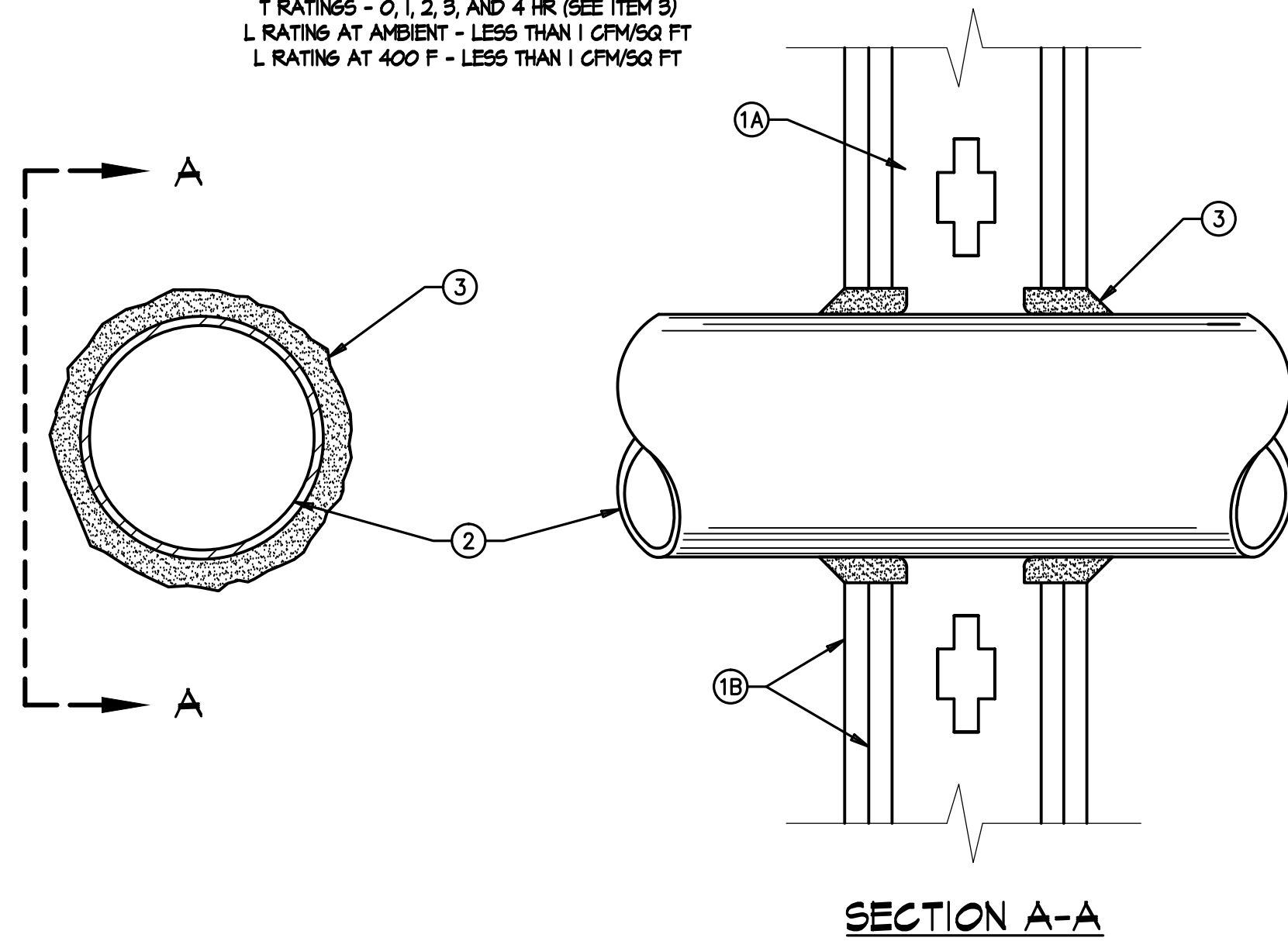


ROOF PENETRATION DETAIL 2
NO SCALE E-2.1



ROOF TOP CONDUIT SUPPORT SLEEPER DETAIL 3
NO SCALE E-2.1

SYSTEM NO. H-1001
JUNE 15, 2005
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 RATINGS AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATINGS AT 400 F - LESS THAN 1 CFM/SQ FT



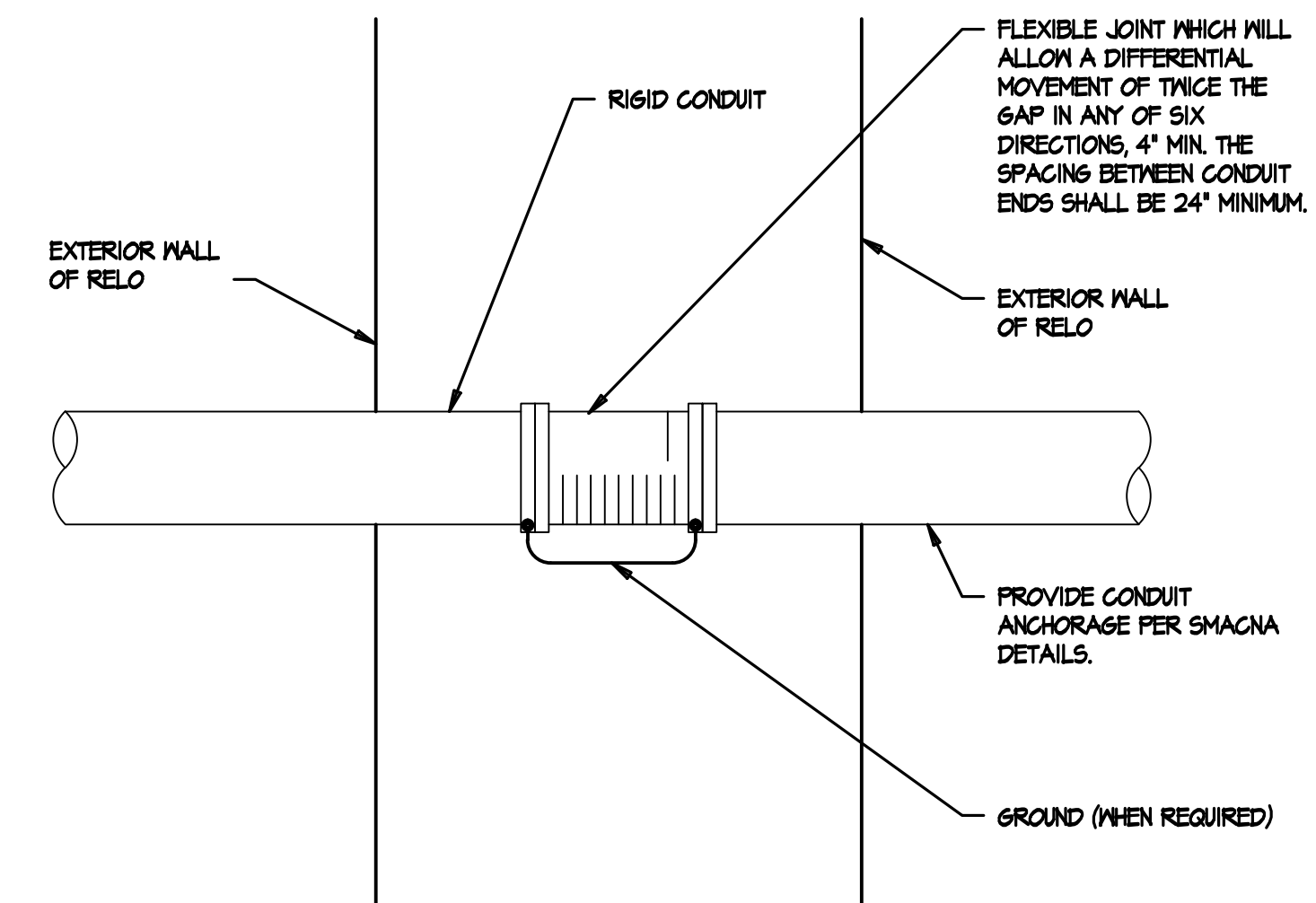
GYPSUM BOARD RATED WALL CONDUIT PENETRATION DETAIL 4
NO SCALE E-2.1

KEYNOTES

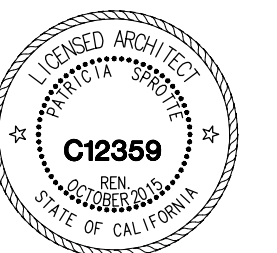
- 1 WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U800 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - A. STUDS - WALL FRAMING MAY CONSIST OF EITHER MOOD STUDS (MAX 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. MOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.
 - B. GYPSUM BOARD* - NOM 1/2 OR 5/8 IN. (13 OR 16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U800 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY PROVIDES 14 KNOCKOUTS FOR 3/4", 1", AND 1 1/4" CONDUIT, WITH FEED-THROUGH CAPABILITIES.
- 2 THROUGH PENETRANT - ONE CONDUIT INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN CONDUIT AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (0 MM) (POINT CONTACT) TO MAX 2 IN. (51 MM). CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF CONDUITS MAY BE USED:
 - A. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
- 3 FILL, VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN 5/8, 1-1/4, 1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATINGS OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATINGS OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATINGS OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATINGS OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW.

ED MAX PIPE OR CONDUIT DIAM IN. (MM)	F RATING HR	T RATING HR
1 (25)	1 or 2	0, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

*M COMPANY - CP 25MB+ CAULK OR FB-3000 NT SEALANT,
*BEARING THE UL CLASSIFICATION MARKING



CONDUIT DETAIL FOR SEISMIC GAPS 5
NO SCALE E-2.1



CONSULTANT

APPROVALS

DESCRIPTION

DETAILS

DATE

02/14/2014

JOB #

13392

SHEET #

E-2.1

TURPIN & RATTAN
ENGINEERING, INC.
CONSULTING ENGINEERS
4719 PALM AVENUE
LA MESA, CA 91941-5221
619 / 466 / 6224 FAX 466 / 6233
E-MAIL: ENGINEER@TREISD.COM
TREI # 13392





CONSULTANT

APPROVALS

DESCRIPTION

PANEL SCHEDULES

DATE

02/14/2014

JOB #

13392

SHEET #

E-3.1

PANEL ID: A EXISTING		FEEDER/SYSTEM		LOAD TYPES					
LOCATION: BUILDING A MAIN: 400/3P M.C.B. BUS AMPS: 400 MOUNTING: SURFACE AIC RATING: 65K		FED FROM: HA FEEDER OCP: 400 AMPS SYSTEM: 208 /120V, 3-PH, 4W		Blank or NON-CONTINUOUS LCL: LONG-CONTINUOUS REC: DEMANDABLE RECEP.TS KIT: KITCHEN PNL, SUB-FED PNL UNIT: RESID. UNIT MTR MOTOR					
CKT DESCRIPTION	LOAD TYPE	BKR	LOAD (VA) PH A	LOAD (VA) PH B	LOAD (VA) PH C	BKR	LOAD TYPE DESCRIPTION	CKT	
1 COUNSLER RECEPTACLES	REC	20/1	1000	600		20/1	ATTENDANCE CONFERENCE VP SEC.	2	
3 COUNSLER RECEPTACLES	REC	20/1		900	600	20/1	ATTENDANCE CONFERENCE VP SEC.	4	
5 COUNSLER RECEPTACLES	REC	20/1			540	600	20/1	ATTENDANCE CONFERENCE VP SEC.	6
7 TEACHER LOUNGE RECEPTACLES	REC	20/1	1000	500		20/1	ATTENDANCE CONFERENCE VP SEC.	8	
9 TEACHER LOUNGE RECEPTACLES	REC	20/1		600	900	20/1	NON EMS	10	
11 TEACHER LOUNGE RECEPTACLES	REC	20/1			600	360	20/1	ATTENDANCE CONFERENCE PRINCIPAL	12
13 SPARE		20/1	1000	750		20/1	ATTENDANCE CONFERENCE PRINCIPAL	14	
15 ELECTRIC ROOM RECEPTACLES	REC	20/1		360	1080	20/1	ATTENDANCE CONFERENCE PRINCIPAL	16	
17 FIRE ALARM	NON	20/1				20/1	COPY ROOM, PRINCIPAL	18	
19 COUNSLER CLERK RECEPTACLES	REC	20/1	1260	720		20/1	COPY ROOM, PRINCIPAL	20	
21 COUNSLER CLERK RECEPTACLES	REC	20/1		1260	900	20/1	COPY ROOM, PRINCIPAL	22	
23 COUNSLER CLERK RECEPTACLES	REC	20/1			1260	360	20/1	PSYCHOLOGIST, OFFICE MANAGER RECEPTACLES	24
25 DRINK FOUNTAIN	NON	20/1	300	1000		20/1	PSYCHOLOGIST, OFFICE MANAGER RECEPTACLES	26	
27 DRINK FOUNTAIN	NON	20/1		1000	500	20/1	PSYCHOLOGIST, OFFICE MANAGER RECEPTACLES	28	
29 MEN'S RESTROOM	NON	20/1			100	500	20/1	LOBBY RECEPTACLES	30
31 EF-A3, EF-A4, EF-A5	MTR	20/1	500	1000		20/1	LOBBY RECEPTACLES	32	
33 SPARE		20/1		500	1200	20/1	NON REFRIGERATOR	34	
35 IRRIGATION CONTROLLER	NON	20/1			500	1200	20/1	NON REFRIGERATOR	36
37 OFFICE RECEPTACLE	REC	20/1	360	360		20/1	NURSE OFFICE RECEPTACLES	38	
39 SPARE		20/1			2288	30/	MTR **SSAC-2, SSCU-2	40	
41 **CP-2, TCP	NON	20/1			360	2288	/2	MTR SAME AS CIRCUIT ABOVE	42

CONNECTED VA	DEMAND VA	PH A	PH B	PH C	CONNECTED LOAD PER PHASE
GENL LOAD: 9520	9520	10350	12088	10678	33116
LONG CONTIN.: 0	0				TOTAL CONNECTED LOAD (VA)
GENL RECEPT: 18520	14260				92
MOTOR LOAD: 5076	+25% OF LARGEST				29428
KITCHEN LOAD: 0	0				106

PANEL NOTES:
* PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE OF SIZE INDICATED TO MATCH EXISTING PANEL AIC RATING.

PANEL ID: B1 EXISTING		FEEDER/SYSTEM		LOAD TYPES					
LOCATION: BUILDING B MAIN: LUGS ONLY BUS AMPS: 400 MOUNTING: SURFACE AIC RATING: 65		FED FROM: HB FEEDER OCP: 400 AMPS SYSTEM: 208 /120V, 3-PH, 4W		Blank or NON-CONTINUOUS LCL: LONG-CONTINUOUS REC: DEMANDABLE RECEP.TS KIT: KITCHEN PNL, SUB-FED PNL UNIT: RESID. UNIT MTR MOTOR					
1 BACKSTOP	NON	20/1	1500	1200		20/1	REC RECEPTACLES	2	
3 BACKSTOP	NON	20/1		1500	1200	20/1	REC RECEPTACLES	4	
5 BACKSTOP	NON	20/1			1500	1200	20/1	REC RECEPTACLES	6
7 BACKSTOP	NON	20/1	1500	2800		30/1	NON HAND DRYERS	8	
9 BACKSTOP	NON	20/1		1500	2800	30/1	NON HAND DRYERS	10	
11 BACKSTOP	NON	20/1			1500	2800	30/1	NON SAME AS CIRCUIT ABOVE	12
13 RECEPTACLES	REC	20/1	400	2800		/3	NON SAME AS CIRCUIT ABOVE	14	
15 SPARE		20/1		800	1700	20/1	REC RECEPTACLES	16	
17 **SSAC-2, SSCU-2	MTR	30/1			2288	1700	40/1	NON RECEPTACLES	18
19 SAME AS CIRCUIT ABOVE	MTR	/2	2288	1700		20/1	REC RECEPTACLES	20	
21 EF-B1, B2, B3	MTR	20/1		300	300	20/1	REC RECEPTACLES	22	
23 SPARE		20/1			1200	1700	20/1	REC LCD TV	24
25 SAME AS CIRCUIT ABOVE	NON	20/1	3000	1000		20/1	MTR EF-14, 15, 16, 17, 26	26	
27 SAME AS CIRCUIT ABOVE	NON	/2		3000	300	20/1	MTR EF-B10, B11	28	
29 CURTAIN CONT	MTR	20/1			1200	1000	20/1	MTR WHEELCHAIR LIFT	30
31 CURTAIN CONT	MTR	20/1	1200	500		30/1	MTR MOTORIZED SCREEN	32	
33 CURTAIN CONT	MTR	20/1		1600	1000	/	MTR SAME AS CIRCUIT ABOVE	34	
35 EF-B9	MTR	20/1			400	1000	/3	MTR SAME AS CIRCUIT ABOVE	36
37 SPARE		20/1		360		20/1	NON **CP-2, TCP	38	
39 PROJECTION SCREEN	NON	20/1		360	1000	30/1	NON ROLLUP DOOR	40	
41 **SOUND SYSTEM	NON	20/1			1200	1000	/2	NON SAME AS CIRCUIT ABOVE	42

CONNECTED VA	DEMAND VA	PH A	PH B	PH C	CONNECTED LOAD PER PHASE
GENL LOAD: 33820	33820	20248	17360	19688	57296
LONG CONTIN.: 0	0				TOTAL CONNECTED LOAD (VA)
GENL RECEPT: 9400	9400				159
MOTOR LOAD: 14076	+25% OF LARGEST				57868
KITCHEN LOAD: 0	0				174

PANEL NOTES:
* RELOCATE BRANCH CIRCUIT 17 TO CIRCUIT 41. PROVIDE NEW CIRCUIT BREAKER OF SIZE INDICATED TO MATCH EXISTING PANEL AIC RATING.
** PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE OF SIZE INDICATED TO MATCH EXISTING PANEL AIC RATING.

PANEL ID: D1 EXISTING		FEEDER/SYSTEM		LOAD TYPES					
LOCATION: BUILDING D MAIN: LUGS ONLY BUS AMPS: 400 MOUNTING: SURFACE AIC RATING: 35K		FED FROM: HD FEEDER OCP: 400 AMPS SYSTEM: 208 /120V, 3-PH, 4W		Blank or NON-CONTINUOUS LCL: LONG-CONTINUOUS REC: DEMANDABLE RECEP.TS KIT: KITCHEN PNL, SUB-FED PNL UNIT: RESID. UNIT MTR MOTOR					
1 SPARE		20/1		360		20/1	NON IFD	2	
3 SPARE		20/1			200	20/1	NON FIRE ALARM PANEL	4	
5 SPARE		20/1				200	20/1	NON INTRUSION CABINET	6
7 SPARE		30/1				20/1	NON SPARE	8	
9 SPARE		20/1				20/1	NON SPARE	10	
11 SPARE		20/1				20/1	NON SPARE	12	
13 SPARE		20/1				20/1	NON SPARE	14	
15 SPARE		20/1				20/1	NON SPARE	16	
17 SPARE		20/1				20/1	NON SPARE	18	
19 SPARE		20/1				20/1	NON SPARE	20	
21 SPARE		20/1				20/1	NON SPARE	22	
23 SPARE		20/1				20/1	NON SPARE	24	
25 **CP-4, TCP	NON	20/1	360			20/1	NON SPARE	26	
27 **SSAC-4, SSCU-4	MTR	30/1			2288	/1	NON SPARE	28	
29 SAME AS CIRCUIT ABOVE	MTR	/2			2288	/1	NON SPARE	30	
31 SPARE		/1				/1	NON SPARE	32	
33 BOYS PE OFFICE RECEPTACLE	REC	20/1		360		/1	NON SPARE	34	
35 BOYS PE OFFICE RECEPTACLE	REC	20/1			360	/1	NON SPARE	36	
37 SPARE		/1				/1	NON SPARE	38	
39 SPARE		/1				/1	NON SPARE	40	
41 SPARE		/1				/1	NON SPARE	42	

CONNECTED VA	DEMAND VA	PH A	PH B	PH C	CONNECTED LOAD PER PHASE
GENL LOAD: 1120	1120	720	2848	2848	6416
LONG CONTIN.: 0	0				TOTAL CONNECTED LOAD (VA)
GENL RECEPT: 720	720				18
MOTOR LOAD: 4576	+25% OF LARGEST				6988
KITCHEN LOAD: 0	0				29

PANEL NOTES:
* PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE OF SIZE INDICATED TO MATCH EXISTING PANEL AIC RATING.

PANEL ID: E EXISTING		FEEDER/SYSTEM		LOAD TYPES					
LOCATION: BUILDING E MAIN: 400/3P M.C.B. BUS AMPS: 400 MOUNTING: SURFACE AIC RATING: 35K		FED FROM: HE FEEDER OCP: 400 AMPS SYSTEM: 208 /120V, 3-PH, 4W		Blank or NON-CONTINUOUS LCL: LONG-CONTINUOUS REC: DEMANDABLE RECEP.TS KIT: KITCHEN PNL, SUB-FED PNL UNIT: RESID. UNIT MTR MOTOR					
1 RECEPTACLES LAB	REC	20/1	1000	1000		20/1	RECEPTACLES CLASSROOM	2	
3 RECEPTACLES LAB	REC	20/1		1000	1000	20/1	RECEPTACLES CLASSROOM	4	
5 RECEPTACLES LAB	REC	20/1			1000	1000	20/1	RECEPTACLES CLASSROOM	6
7 TV/LCD	NON	20/1	1000	1000		20/1	RECEPTACLES CLASSROOM	8	
9 RECEPTACLES LAB	REC	20/1		1000	1000	20/1	RECEPTACLES LAB (GFI CB)	10	
11 RECEPTACLES LAB	REC	20/1			1000	1000	20/1	RECEPTACLES LAB	12
13 EF-E1	MTR	20/1	800	1000		20/1	RECEPTACLES LAB	14	
15 CIRC PUMP	MTR	20/1		85	1000	20/1	RECEPTACLES LAB	16	
17 EF-E3, EF-E4 (ABANDONED)	MTR	20/1			1000	1000	20/1	RECEPTACLES LAB	18
19 EF-E5, EF-E6, EF-E7, EF-E8	MTR	20/1	1000	1000		20/1	RECEPTACLES LAB	20	
21 SPARE		20/1			1000	20/1	RECEPTACLES (A1C)	22	
23 SPARE		20/1				1000	20/1	RECEPTACLES (A1C)	24
25 SPARE		20/1	1000			20/1	NON WATER HEATER WH-3	26	
27 SPARE		20/1			1000	30/1	NON SAME AS CIRCUIT ABOVE	28	
29 RECEPTACLES LAB	REC	20/1			1000	1000	/2	NON SAME AS CIRCUIT ABOVE	30
31 RECEPTACLES LAB	REC	20/1	1000			20/1	MTR **SSCU-5, SSAC-5	32	
33 RECEPTACLES LAB	REC	20/1		1000	2288	30/1	MTR SAME AS CIRCUIT ABOVE	34	
35 EF-EF-2	MTR	20/1			800	2288	/2	NON **CP-5, TCP	36
37 SPARE		20/1		360		/1	NON BUSSED SPACE	38	
39 SPARE		20/1				/1	NON BUSSED SPACE	40	
41 SPARE		/1				/1	NON BUSSED SPACE	42	

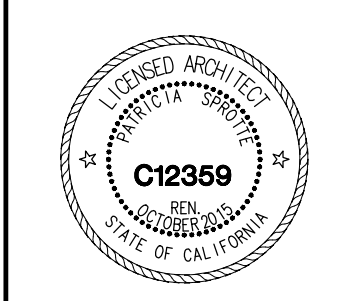
CONNECTED VA	DEMAND VA	PH A	PH B	PH C	CONNECTED LOAD PER PHASE
GENL LOAD: 3360	3360	10160	10373	12088	32621
LONG CONTIN.: 0	0				TOTAL CONNECTED LOAD (VA)
GENL RECEPT: 21000	15500				91
MOTOR LOAD: 8261	+25% OF LARGEST				27693
KITCHEN LOAD: 0	0				106

PANEL NOTES:
* PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE OF SIZE INDICATED TO MATCH EXISTING PANEL AIC RATING.

PANEL ID: F EXISTING		FEEDER/SYSTEM		LOAD TYPES					
LOCATION: BUILDING F MAIN: 400/3P M.C.B. BUS AMPS: 400 MOUNTING: SURFACE AIC RATING: 65K		FED FROM: FE FEEDER OCP: 400 AMPS SYSTEM: 208 /120V, 3-PH, 4W		Blank or NON-CONTINUOUS LCL: LONG-CONTINUOUS REC: DEMANDABLE RECEP.TS KIT: KITCHEN PNL, SUB-FED PNL UNIT: RESID. UNIT MTR MOTOR					
1 RECEPTACLES 606	REC	20/1	1000	1000		20/1	RECEPTACLES 609	2	
3 RECEPTACLES 606	REC	20/1		1000	1500	20/1	RECEPTACLES 609	4	
5 RECEPTACLES 606	REC	20/1			1000	540	20/1	RECEPTACLES 609	6
7 RECEPTACLES 606	REC	20/1	1000	540		20/1	RECEPTACLES 609	8	
9 RECEPTACLES 606	REC	20/1		1000	1200	20/1	RECEPTACLES 609	10	
11 RECEPTACLES 606	REC	20/1			1000	1200	20/1	RECEPTACLES 609	12
13 RECEPTACLES 606	REC	20/1	1000	1200		20/1	RECEPTACLE 609 (GFI CB)	14	
15 RECEPTACLES 606	REC	20/1		1000	1200	20/1	RECEPTACLES 609	16	
17 RECEPTACLES 606	REC	20/1			1000	540	20/1	RECEPTACLES-STORAGE	18
19 RECEPTACLES 606	REC	20/1	540	540		20/1	RECEPTACLES-STORAGE	20	
21 RECEPTACLES 606	REC	20/1		540	1000	20/1	RECEPTACLES 608	22	
23 CP-6, TCP	REC	20/1			360	1200	20/1	RECEPTACLES 608	24
25 RECEPTACLES 605	REC	20/1	540	1200		20/1	RECEPTACLES 608	26	
27 DF	NON	20/1		1000	1600	20/1	RECEPTACLES 608	28	
29 DF	NON	20/1			1000	1000	20/1	RECEPTACLES 607	30
31 STORAGE, PH MONITOR	NON	20/1	1000	1500		20/1	RECEPTACLES 607	32	
33 STORAGE ROOM	NON	20/1		540	540	20/1	RECEPTACLES 607	34	
35 **SSCU-6, SSAC-6	MTR	30/1			2288	540	20/1	RECEPTACLES 607	36
37 SAME AS CIRCUIT ABOVE	MTR	/2	2288	500		20/1	NON FIRE DAMPER	38	
39 EXISTING	NON	20/1		500		20/1	NON SPARE	40	
41 CIRC PUMP - SPARE	NON	20/1				200	NON FIRE ALARM SNAC	42	

CONNECTED VA	DEMAND VA	PH A	PH B	PH C	CONNECTED LOAD PER PHASE
GENL LOAD: 4740	4740	13848	12620	11868	38336
LONG CONTIN.: 0	0				TOTAL CONNECTED LOAD (VA)
GENL RECEPT: 29020	19510				106
MOTOR LOAD: 4576	+25% OF LARGEST				29398
KITCHEN LOAD: 0	0				120

PANEL NOTES:
* REPLACE EXISTING 20A/1P CIRCUIT BREAKERS WITH NEW 30A/2P CIRCUIT BREAKER OF SIZE INDICATED TO MATCH EXISTING PANEL.



IT UPGRADE YEAR TWO
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 CAJON VALLEY UNION SCHOOL DISTRICT
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CONSULTANT

APPROVALS

DESCRIPTION

BUILDING A
 SIGNAL PLAN

DATE

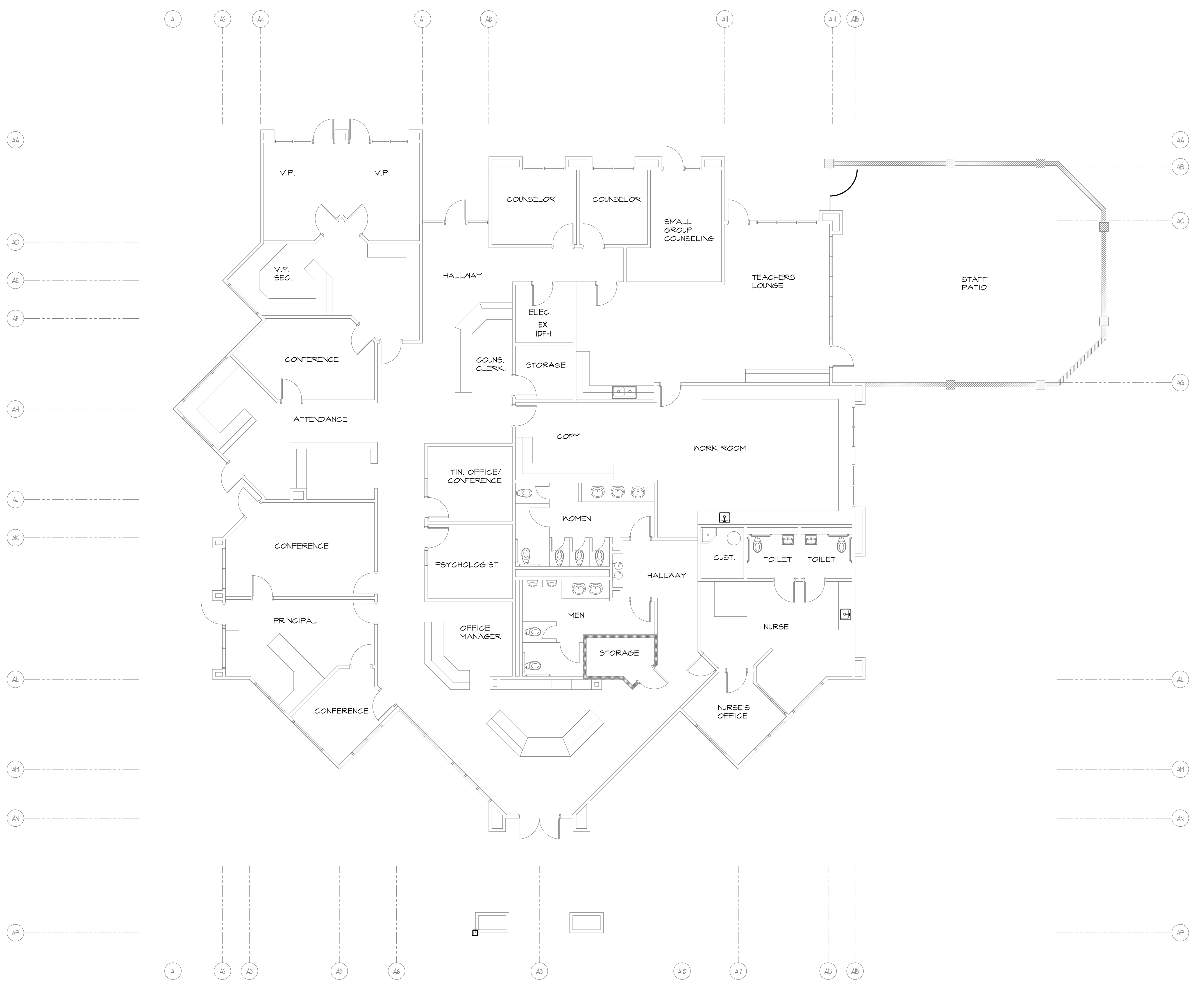
02/14/2014

JOB #

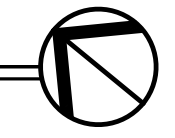
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SHEET #

ET-20

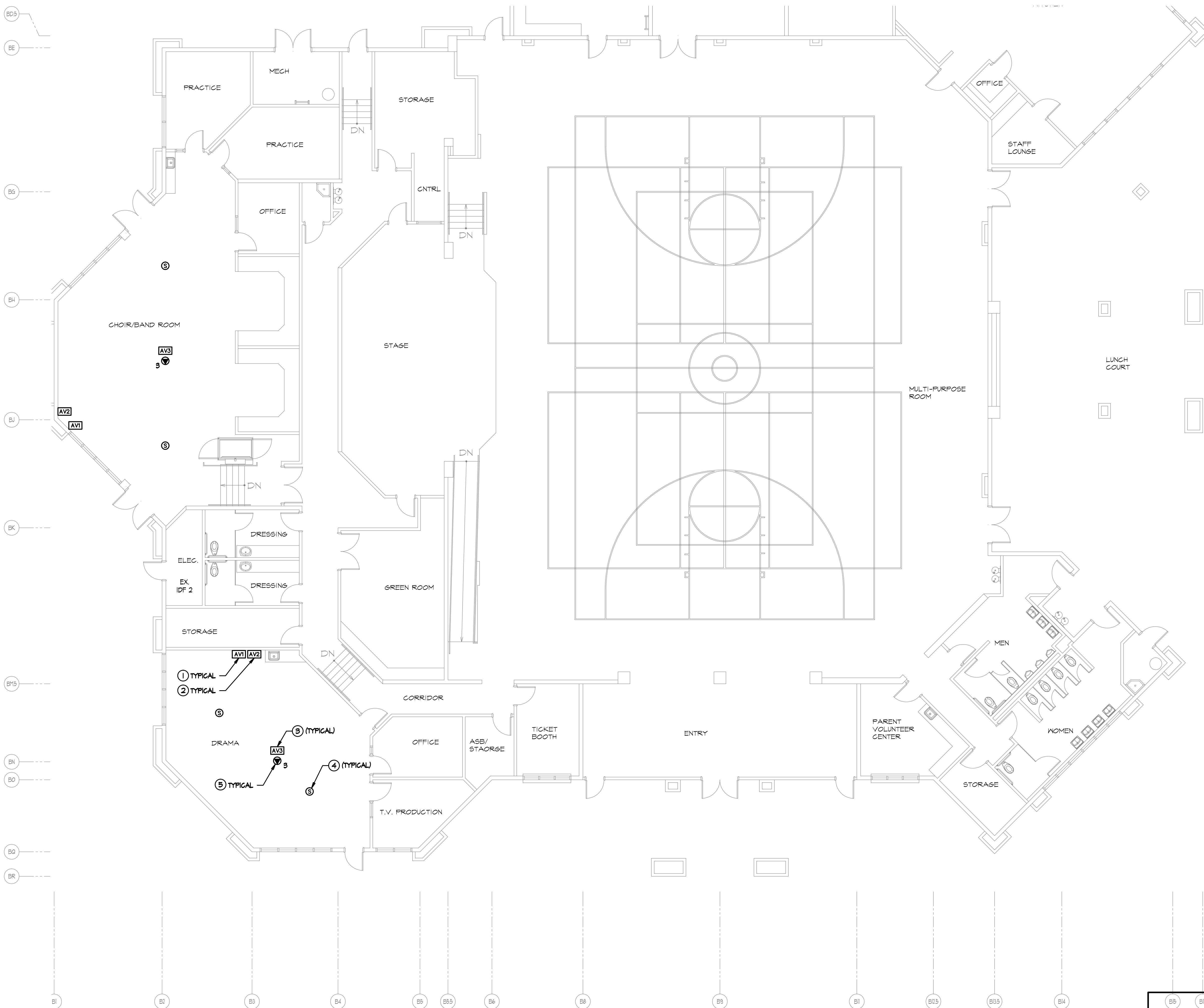


BUILDING A - SIGNAL PLAN
 SCALE: 1/8" = 1'-0"



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KEYNOTES

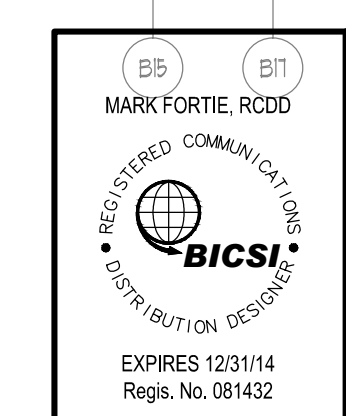
- ① AUDIO/VISUAL SYSTEM INTERFACES AT CENTER OF TEACHING MALL. SEE SHEETS ET-5.2 AND ET-5.3 FOR DETAILS.
- ② AUDIO/VISUAL SYSTEM INTERFACE AT TEACHING STATION LOCATION. SEE SHEETS ET-5.2 AND ET-5.3 FOR DETAILS.
- ③ REMOVE EXISTING PROJECTOR AND ITS ASSOCIATED CEILING MOUNT. PROVIDE EXTRON PROJECTOR MOUNT AND AUDIO/VISUAL COMPONENTS PER SHEETS ET-5.2. RE-INSTALL PREVIOUSLY REMOVED PROJECTOR TO NEW MOUNT. CONTRACTOR SHALL MAKE NECESSARY CONNECTIONS TO PROVIDE A FULLY FUNCTIONING EXTRON AUDIO/VISUAL SYSTEM PER PLANS AND SPECIFICATIONS.
- ④ AUDIO/VISUAL SYSTEM SPEAKER IN SYMMETRICAL CONFIGURATION. SEE SHEETS ET-5.2 AND ET-5.3 FOR DETAILS.
- ⑤ RELOCATE EXISTING DATA DROP INTO ACCESSIBLE CEILING SPACE. USE EXISTING CAT6 DATA JACK AND CABLE; PROVIDE (2) ADDITIONAL CAT6 DATA DROPS. SEE DETAILS 1/ET-5.2 AND 5/ET-5.1.

SHEET NOTES

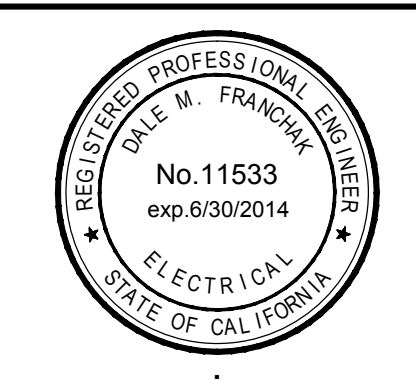
1. SUPPORT CATEGORY 6 & AUDIO/VISUAL CABLING WITH 'J-HOOK' SUPPORTS EVERY 4' WHERE CABLES ARE NOT SUPPORTED, ROUTED THROUGH CONDUIT OR CABLE TRAY. MAINTAIN 12" CLEARANCE FROM ELECTRICAL & LIGHTING. SEE DETAIL 4/ET-5.1.
2. SEE 6/ET-5.1 FOR CABLE LABELING REQUIREMENTS.
3. EXISTING WIRELESS ACCESS POINTS SHALL BE CONNECTED, POWERED UP AND TESTED FOR FUNCTIONALITY. COORDINATE TESTING WITH DISTRICT IT PERSONNEL.
4. SEE RISER DIAGRAM ON SHEET ET-3.0.

BUILDING B - SIGNAL PLAN

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



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01/13/13 13392-13392-001ACAPPROJ
13392-00-ET-2-1.dwg



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CONSULTANT

APPROVALS

DESCRIPTION

**BUILDING B
SIGNAL PLAN**

DATE

02/14/2014

JOB #

13392

SHEET #

ET-21

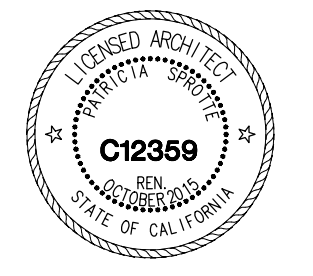
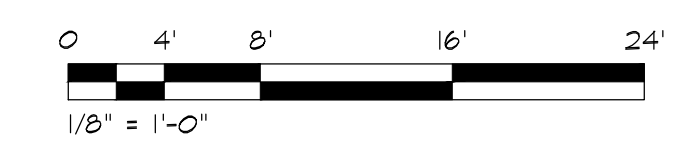
KEYNOTES

- ① AUDIO/VISUAL SYSTEM INTERFACES AT CENTER OF TEACHING WALL. SEE SHEETS ET-5.2 AND ET-5.3 FOR DETAILS.
- ② AUDIO/VISUAL SYSTEM INTERFACE AT TEACHING STATION LOCATION. SEE SHEETS ET-5.2 AND ET-5.3 FOR DETAILS.
- ③ REMOVE EXISTING PROJECTOR AND ITS ASSOCIATED CEILING MOUNT. PROVIDE EXTRON PROJECTOR MOUNT AND AUDIO/VISUAL COMPONENTS PER SHEETS ET-5.2. RE-INSTALL PREVIOUSLY REMOVED PROJECTOR TO NEW MOUNT. CONTRACTOR SHALL MAKE NECESSARY CONNECTIONS TO PROVIDE A FULLY FUNCTIONING EXTRON AUDIO/VISUAL SYSTEM PER PLANS AND SPECIFICATIONS.
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BUILDING C - SIGNAL PLAN

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



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DESCRIPTION

**BUILDING C
SIGNAL PLAN**

DATE

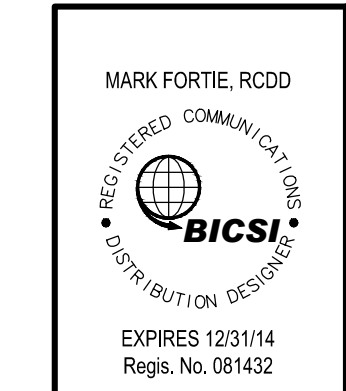
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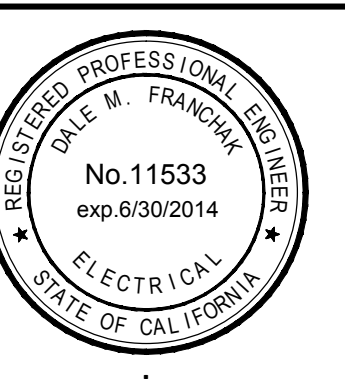
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SHEET #

ET-2.2



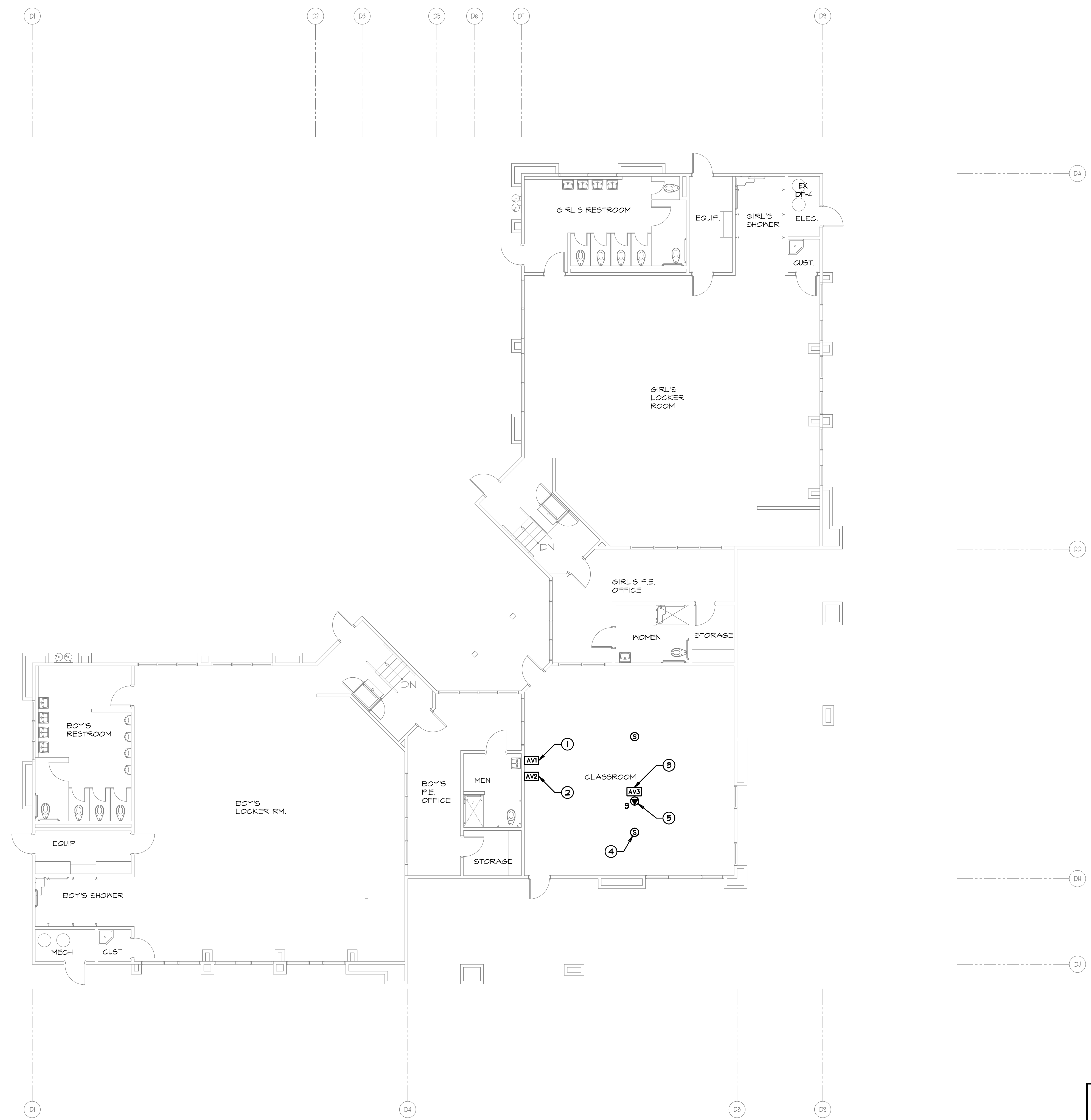
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 03/13/13 13392-13392-00-ACAD-PROJ-1
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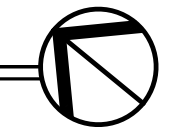
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- ⑤ RELOCATE EXISTING DATA DROP INTO ACCESSIBLE CEILING SPACE. USE EXISTING CAT6 DATA JACK AND CABLE, PROVIDE (2) ADDITIONAL CAT6 DATA DROPS. SEE DETAILS 1/ET-5.2 AND 5/ET-5.1.



BUILDING D - SIGNAL PLAN

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



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DESCRIPTION

**BUILDING D
 SIGNAL PLAN**

DATE

02/14/2014

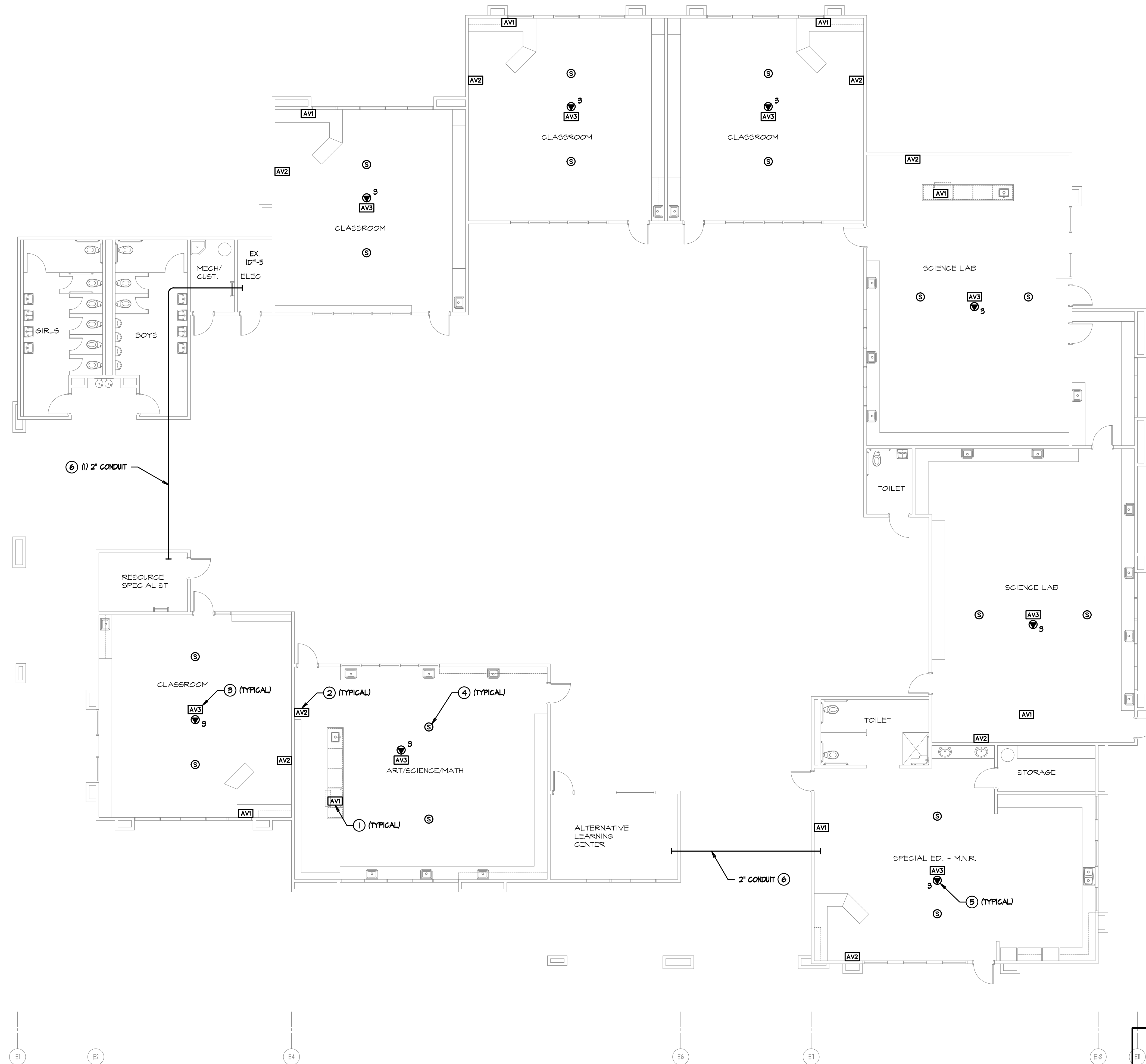
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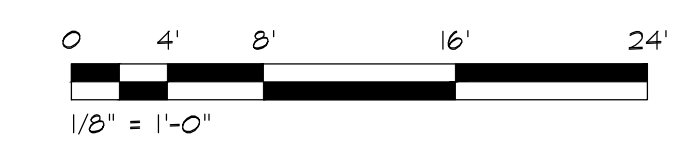
SHEET #

ET-23

- KEYNOTES**
- 1 AUDIO/VISUAL SYSTEM INTERFACES AT CENTER OF TEACHING WALL. SEE SHEETS ET-5.2 AND ET-5.3 FOR DETAILS.
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 - 6 BEND AND ROUTE CONDUIT ALONG UNDERSIDE OF ROOF STRUCTURE TO FOLLOW PITCH OF ROOF. PAINT TO MATCH.



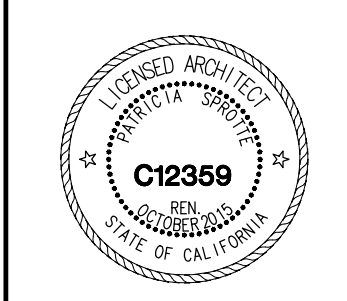
BUILDING E - SIGNAL PLAN
SCALE: 1/8" = 1'-0"



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CONSULTANT

APPROVALS

DESCRIPTION

**BUILDING E
SIGNAL PLAN**

DATE

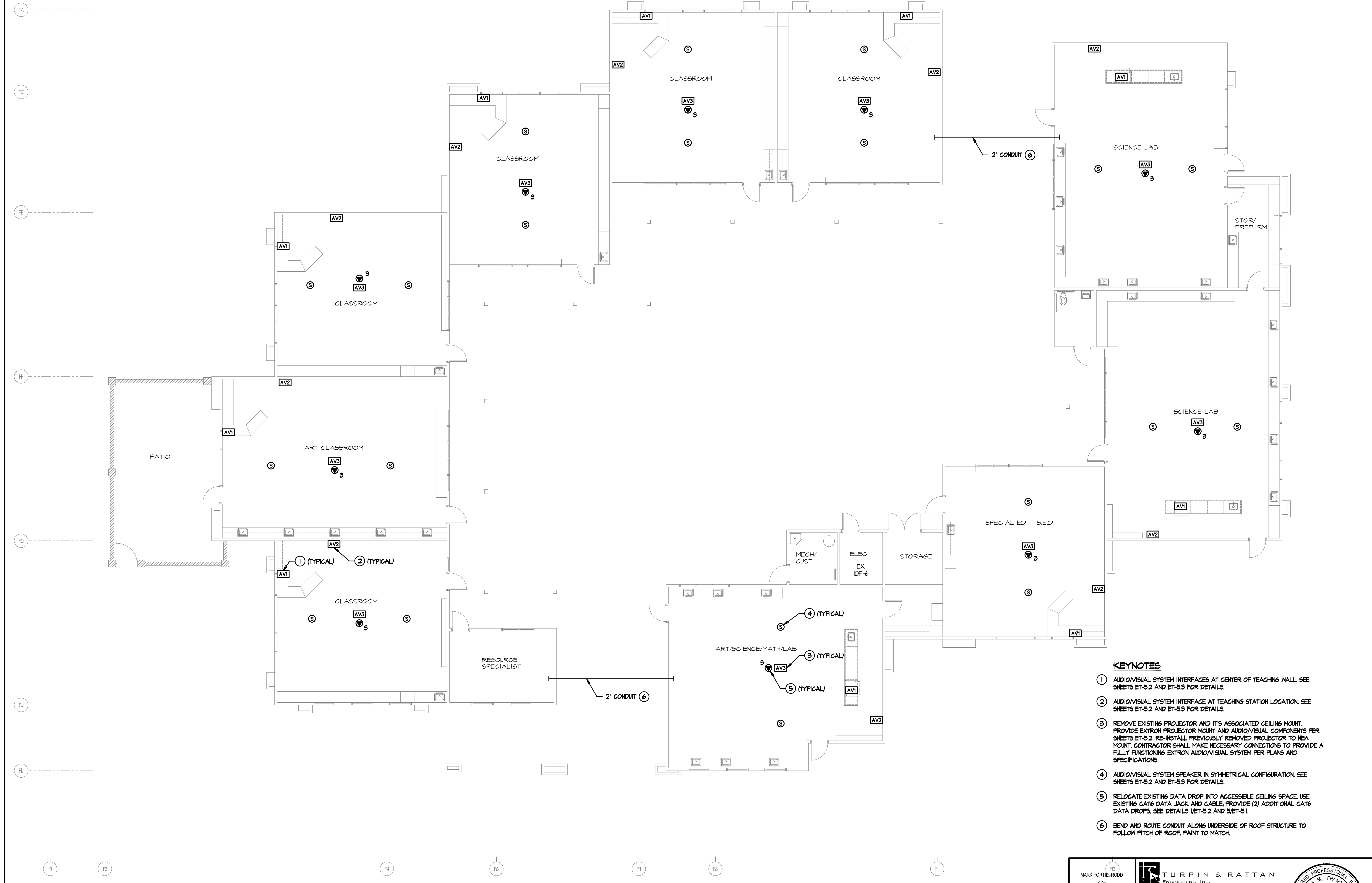
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SHEET #

ET-24



BUILDING F - SIGNAL PLAN
SCALE: 1/8" = 1'-0"

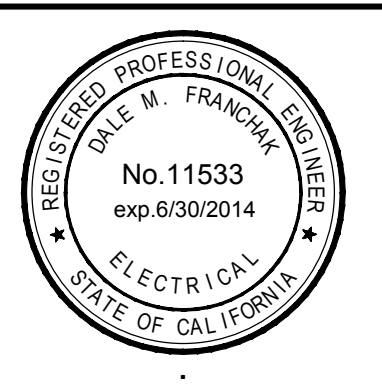


KEYNOTES

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APPROVALS

DESCRIPTION

**BUILDING F
SIGNAL PLAN**

DATE

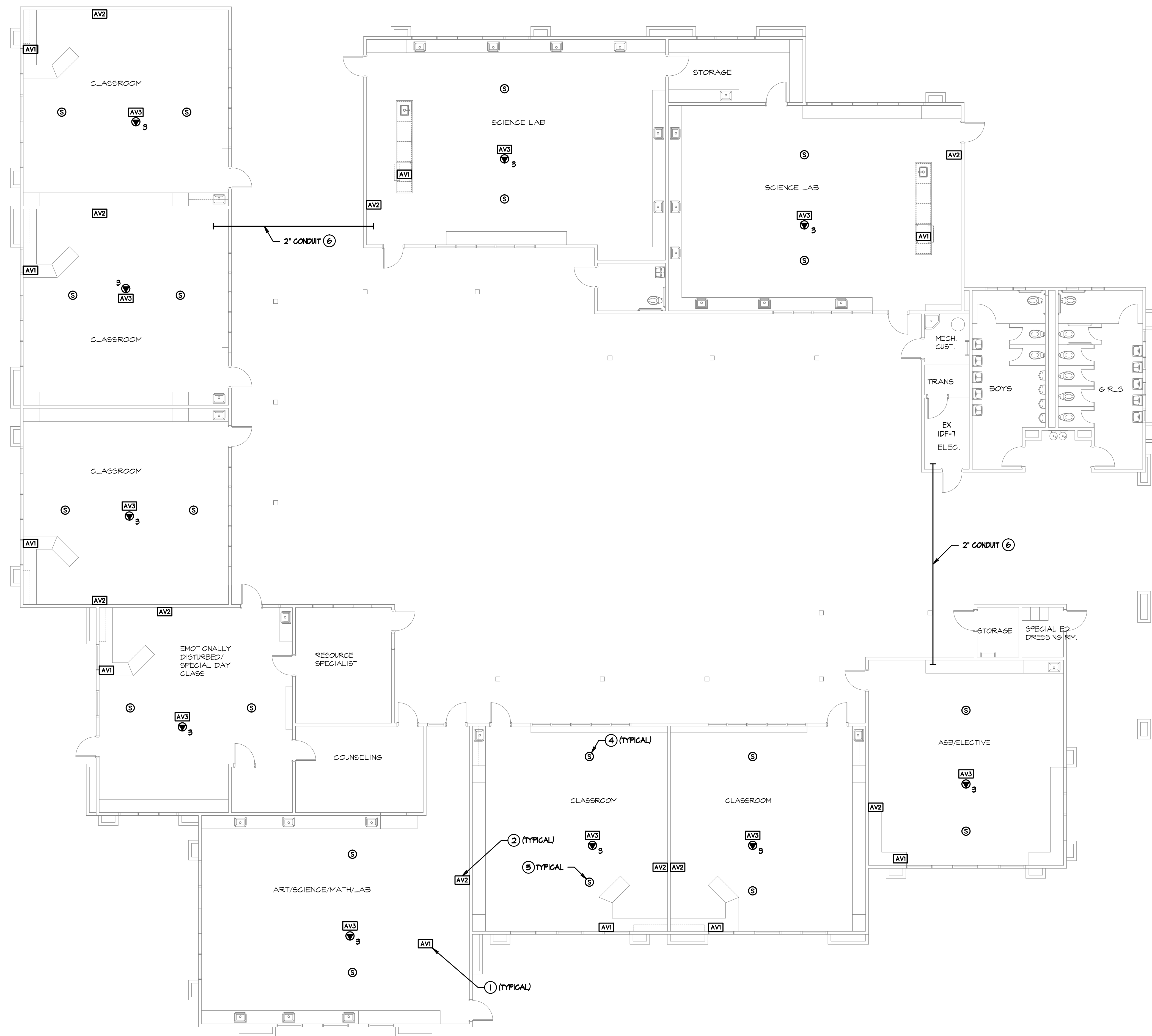
02/14/2014

JOB #

13392

SHEET #

ET-25



64
6B
6C
6E
6G
6H
6K
6L
61

- KEYNOTES**
- AUDIO/VISUAL SYSTEM INTERFACES AT CENTER OF TEACHING MALL. SEE SHEETS ET-5.2 AND ET-5.3 FOR DETAILS.
 - AUDIO/VISUAL SYSTEM INTERFACE AT TEACHING STATION LOCATION. SEE SHEETS ET-5.2 AND ET-5.3 FOR DETAILS.
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61 62 64 66 68 610

BUILDING G - SIGNAL PLAN
SCALE: 1/8" = 1'-0"

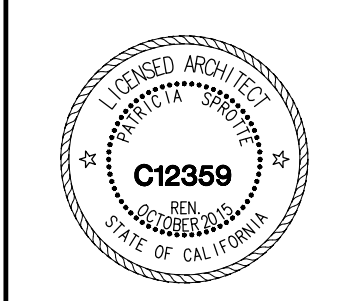


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CONSULTANT

APPROVALS

DESCRIPTION

BUILDING g
SIGNAL PLAN

DATE

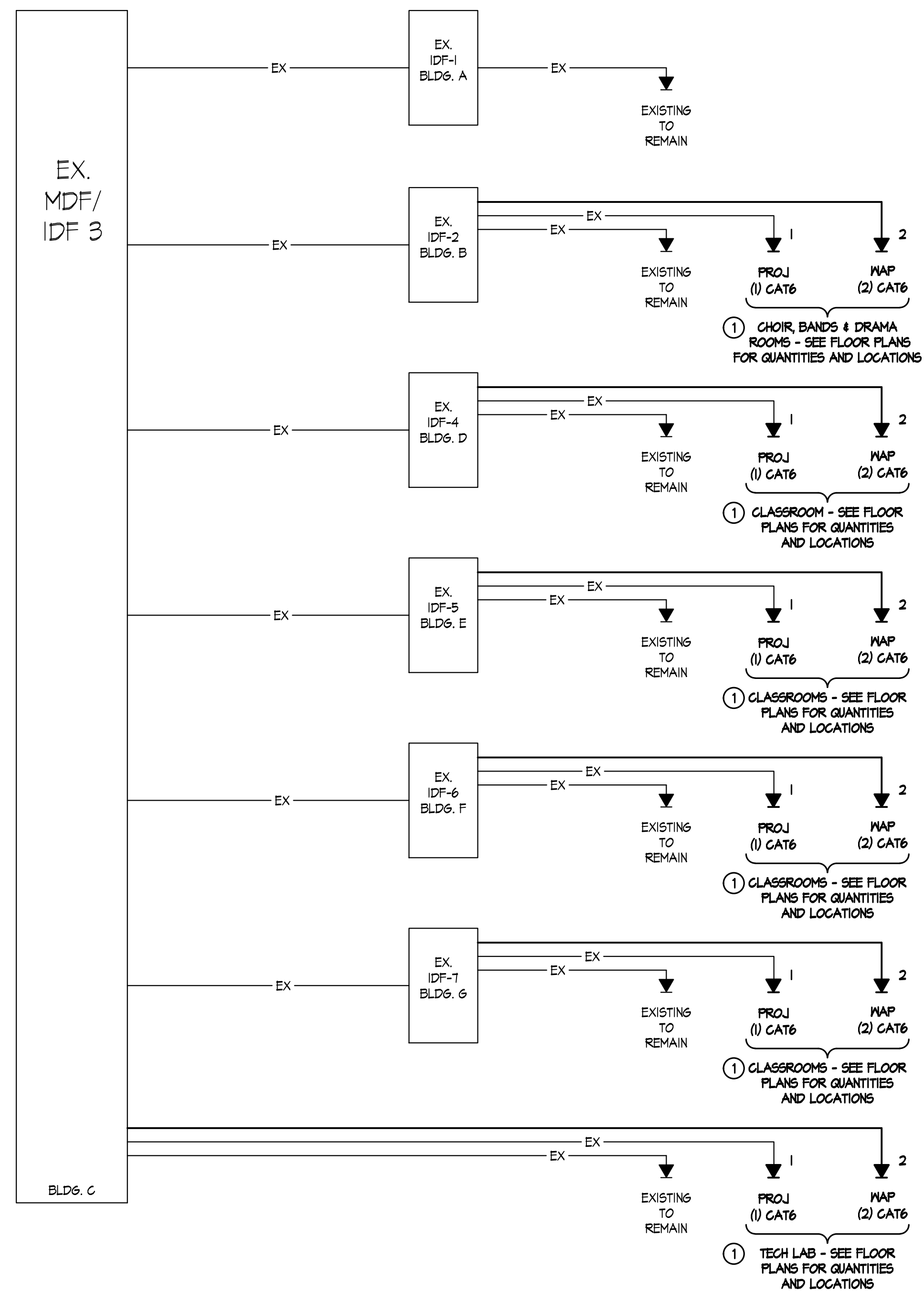
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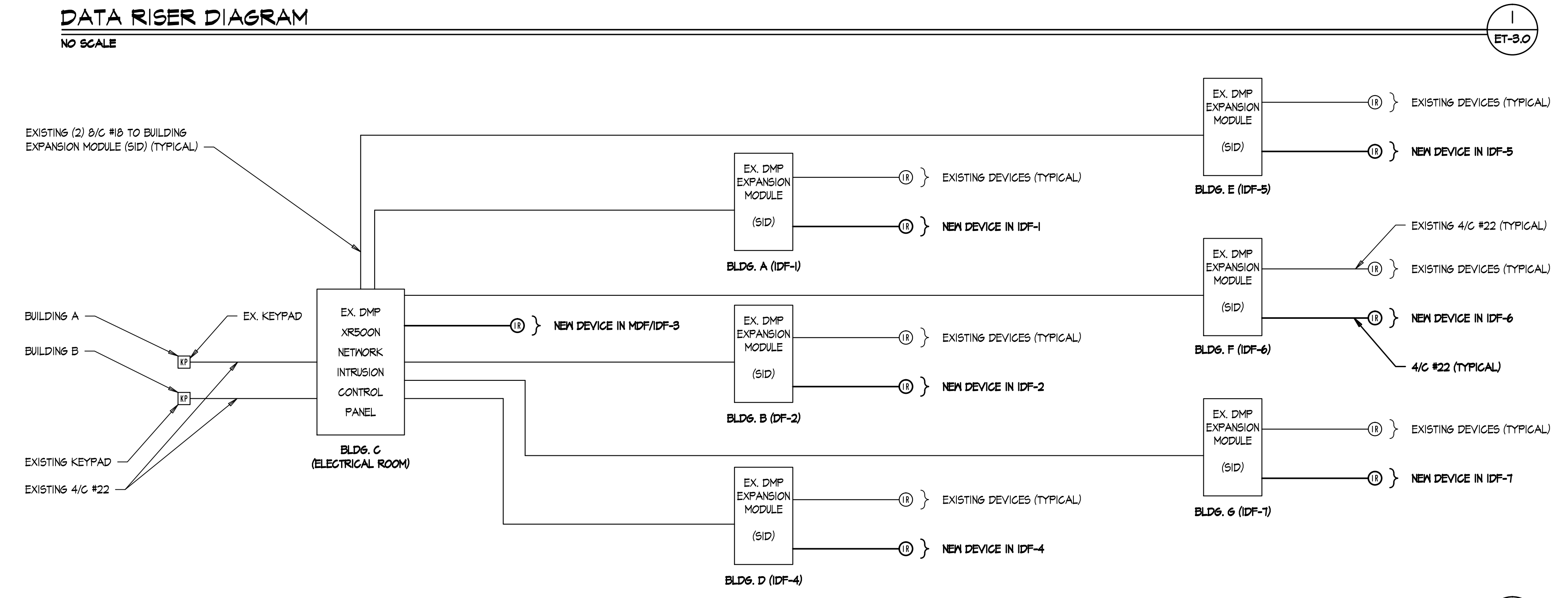
ET-26



KEYNOTES

1 RELOCATE EXISTING PROJECTOR DATA OUTLET INTO NEW BISCUIT BLOCK LOCATED ABOVE CEILING GRID. PROVIDE (2) NEW ADDITIONAL DATA DROPS FOR WIRELESS ACCESS POINT. SEE DETAIL 5/ET-3.1.

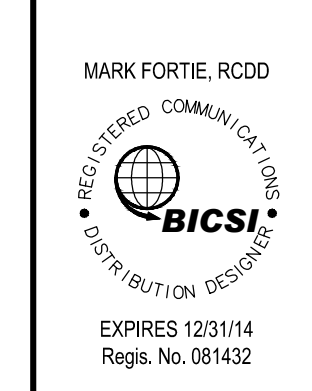
DATA RISER DIAGRAM
NO SCALE



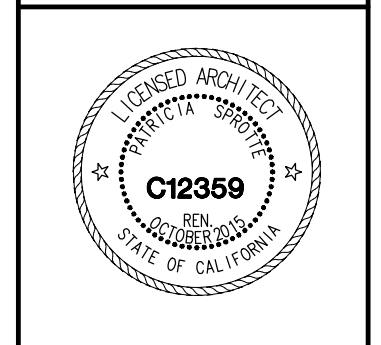
INTRUSION RISER DIAGRAM
NO SCALE

SHEET NOTES

- SEE FLOOR PLANS FOR NEW INTRUSION DEVICE LOCATIONS. CONNECT NEW DEVICES TO EXISTING BUILDING DMP EXPANSION MODULES.
- VERIFY AND TEST SYSTEM TO ENSURE ALL DEVICES FUNCTION PROPERLY.
- ALL CABLE AND WIRE SHALL BE PLENUM RATED WHEN REQUIRED.



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DESCRIPTION

INTRUSION RISER DIAGRAM

DATE

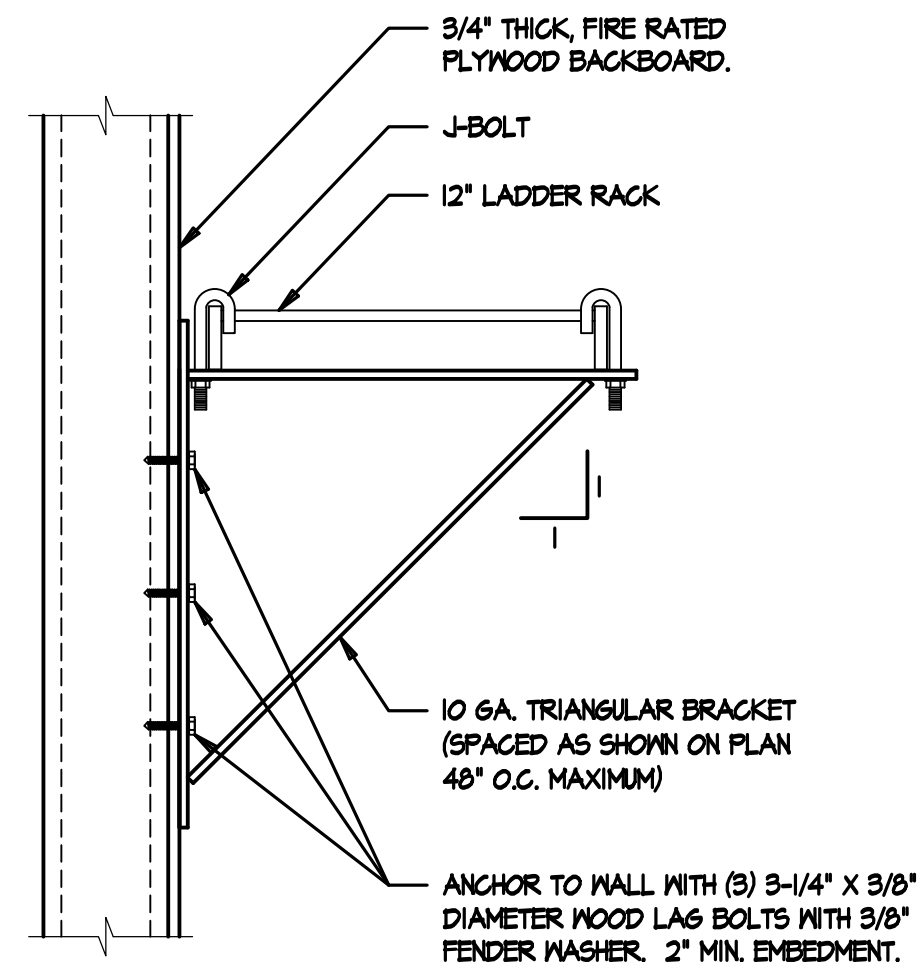
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JOB #

13392

SHEET #

ET-3.0



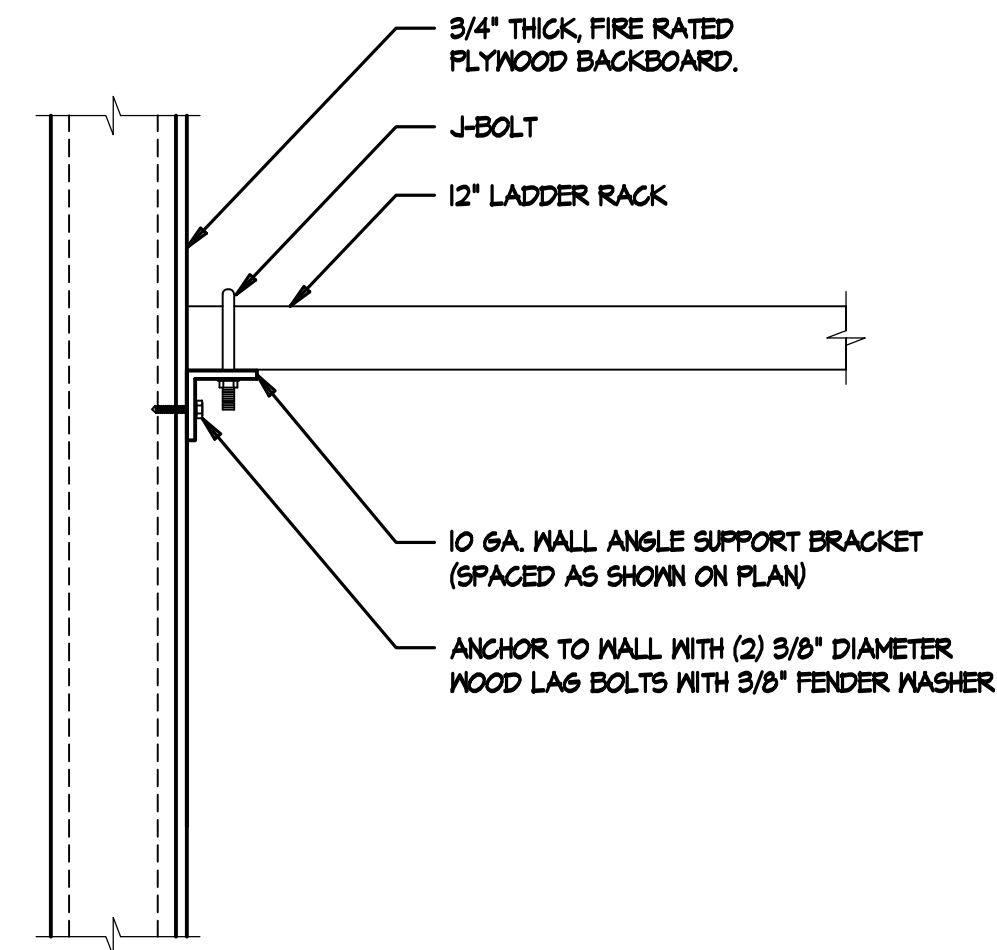
GENERAL NOTES

1. CONTRACTOR TO FURNISH AND INSTALL ALL DATA RACKS.
2. COORDINATE RACK AND LADDER RACK INSTALLATION WITH MECHANICAL CONTRACTOR.

TRIANGULAR BRACKET SUPPORT

NO SCALE

1
ET-51



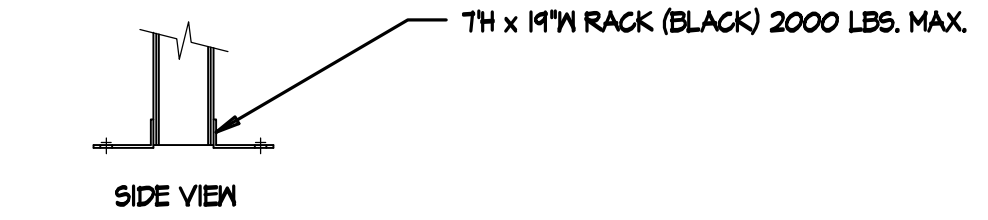
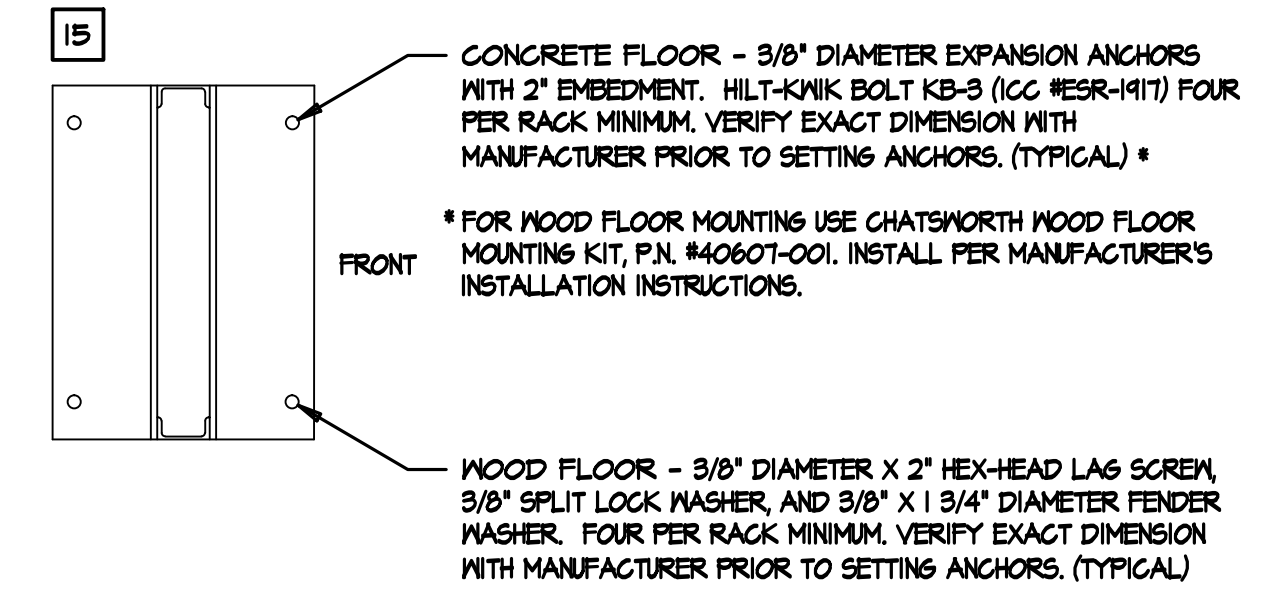
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1. CONTRACTOR TO FURNISH AND INSTALL ALL DATA RACKS.
2. COORDINATE RACK AND LADDER RACK INSTALLATION WITH MECHANICAL CONTRACTOR.

WALL ANGLE SUPPORT BRACKET

NO SCALE

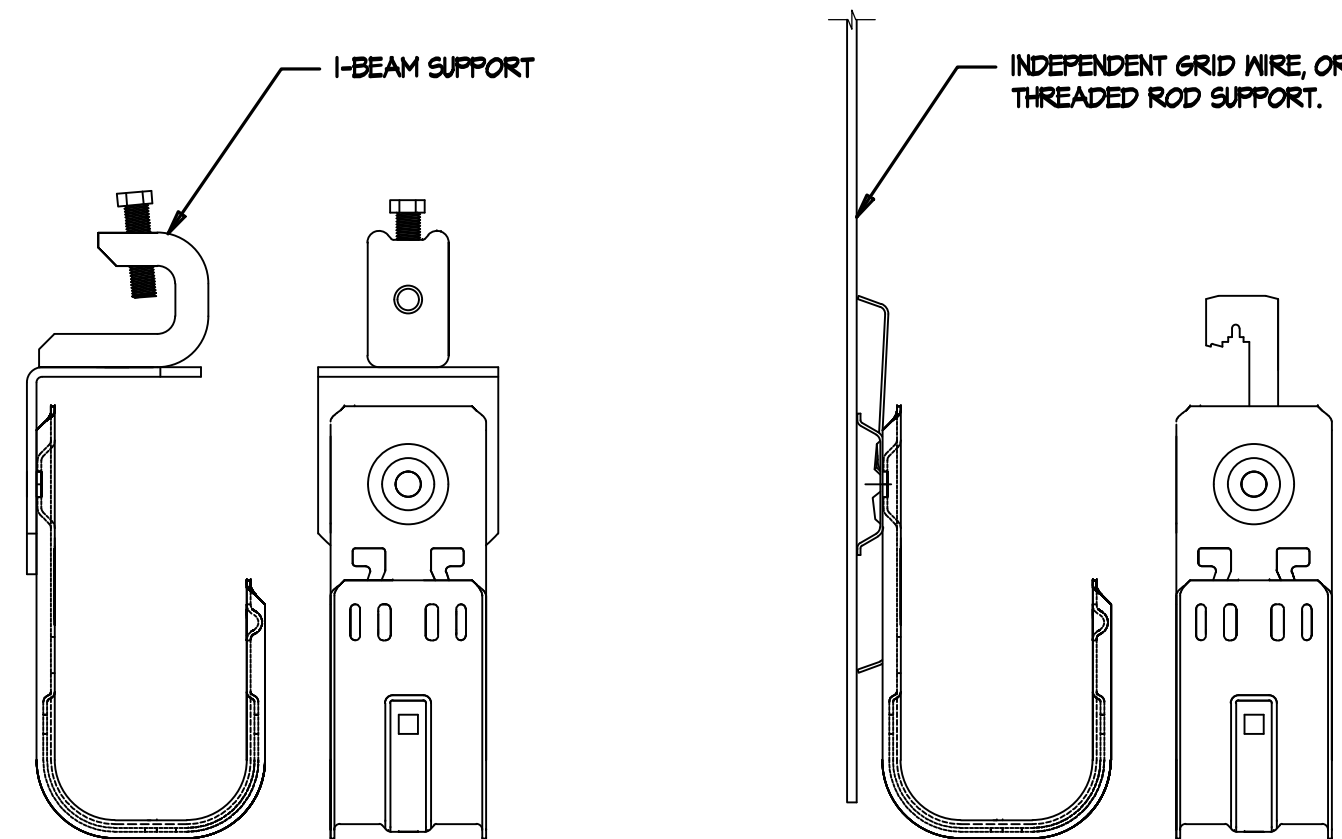
2
ET-51



IDF RACK ANCHOR DETAIL

NO SCALE

3
ET-51



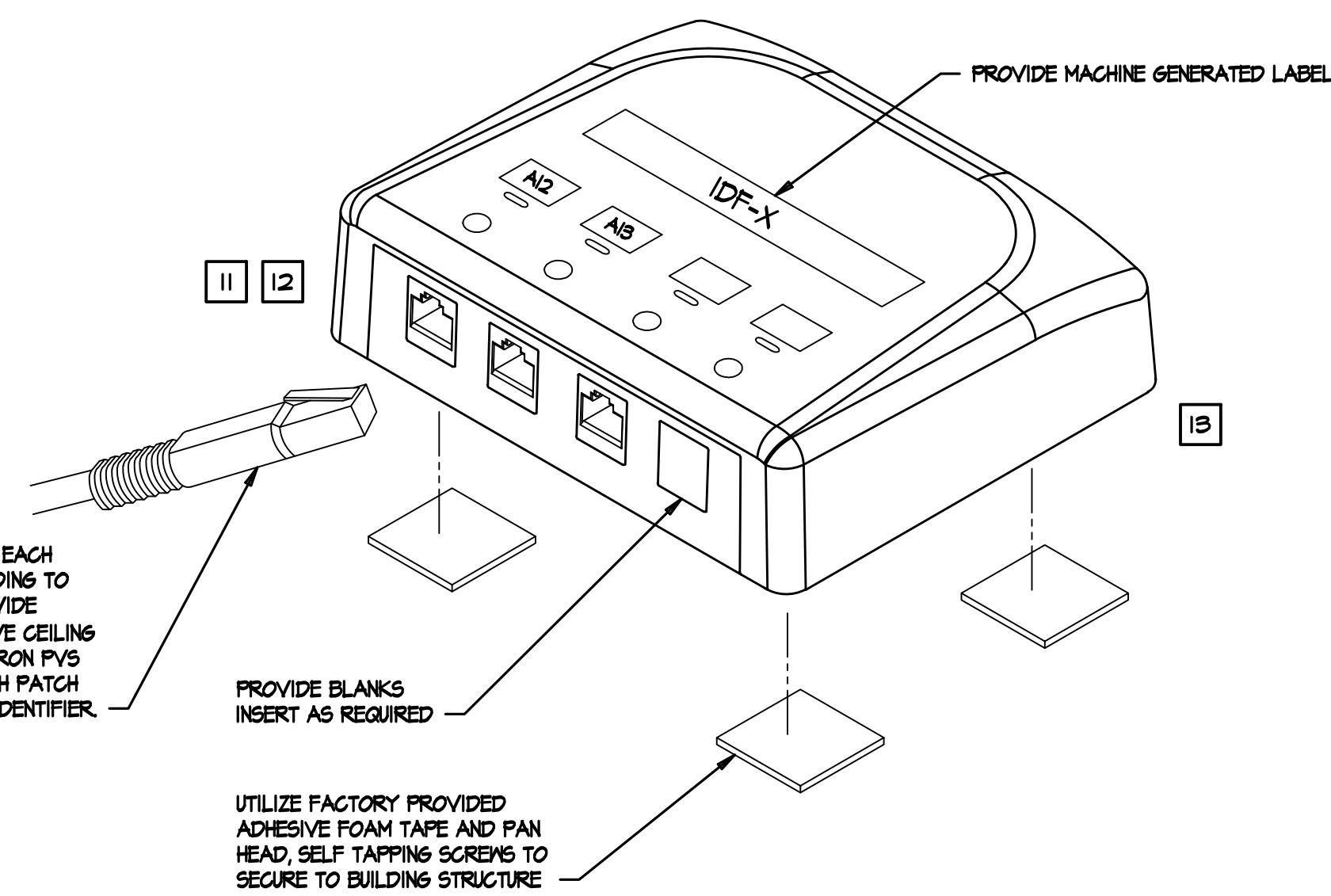
NOTES

1. STATIC LOAD CAPACITY: 30 LBS.
2. MAX FILL OF 40 CATEGORY 6 CABLES
3. MAINTAIN MAXIMUM 4' DISTANCE BETWEEN J-HOOK SUPPORTS.

J-HOOK INSTALLATION DETAIL

NO SCALE

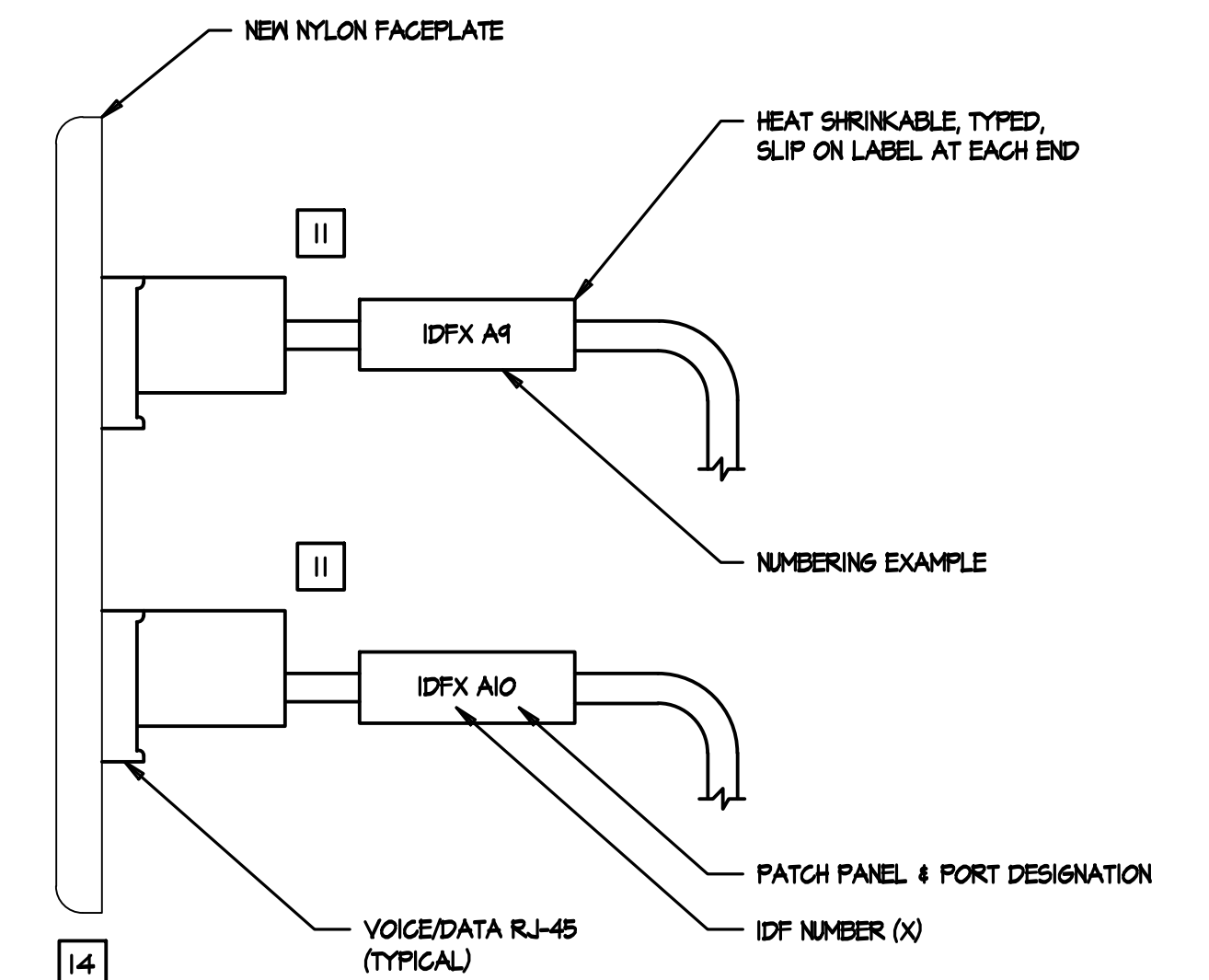
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ET-51



4 PORT SURFACE MOUNT MODULE DETAIL

NO SCALE

5
ET-51



TYPICAL LABELING EXAMPLES

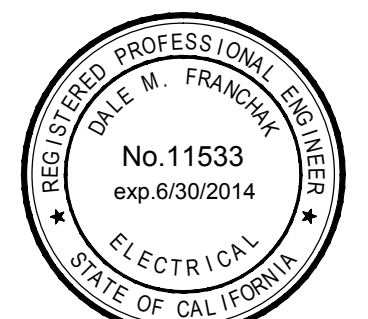
CABLE	TYPICAL END USE CABINET & TYPE
24 FIBERS	IDF 24 F/O DATA
CAT6 (SPARE)	IDF CAT6 SPARE

LABELING EXAMPLE DETAIL

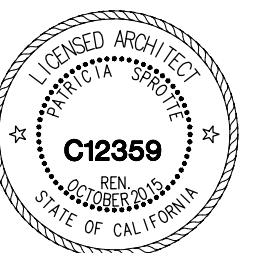
NO SCALE

6
ET-51

TURPIN & RATTAN
ENGINEERING, INC.
CONSULTING ENGINEERS
4719 PALM AVENUE
LA MESA, CA 91941-5221
619 / 466 / 6224 FAX 466 / 6233
E-MAIL: ENGINEER@TREISD.COM
TREI # 13392



REVISION: 03/28/14 - 1:22PM
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CONSULTANT

APPROVALS

DESCRIPTION

TECHNOLOGY SUPPORT DETAILS

DATE

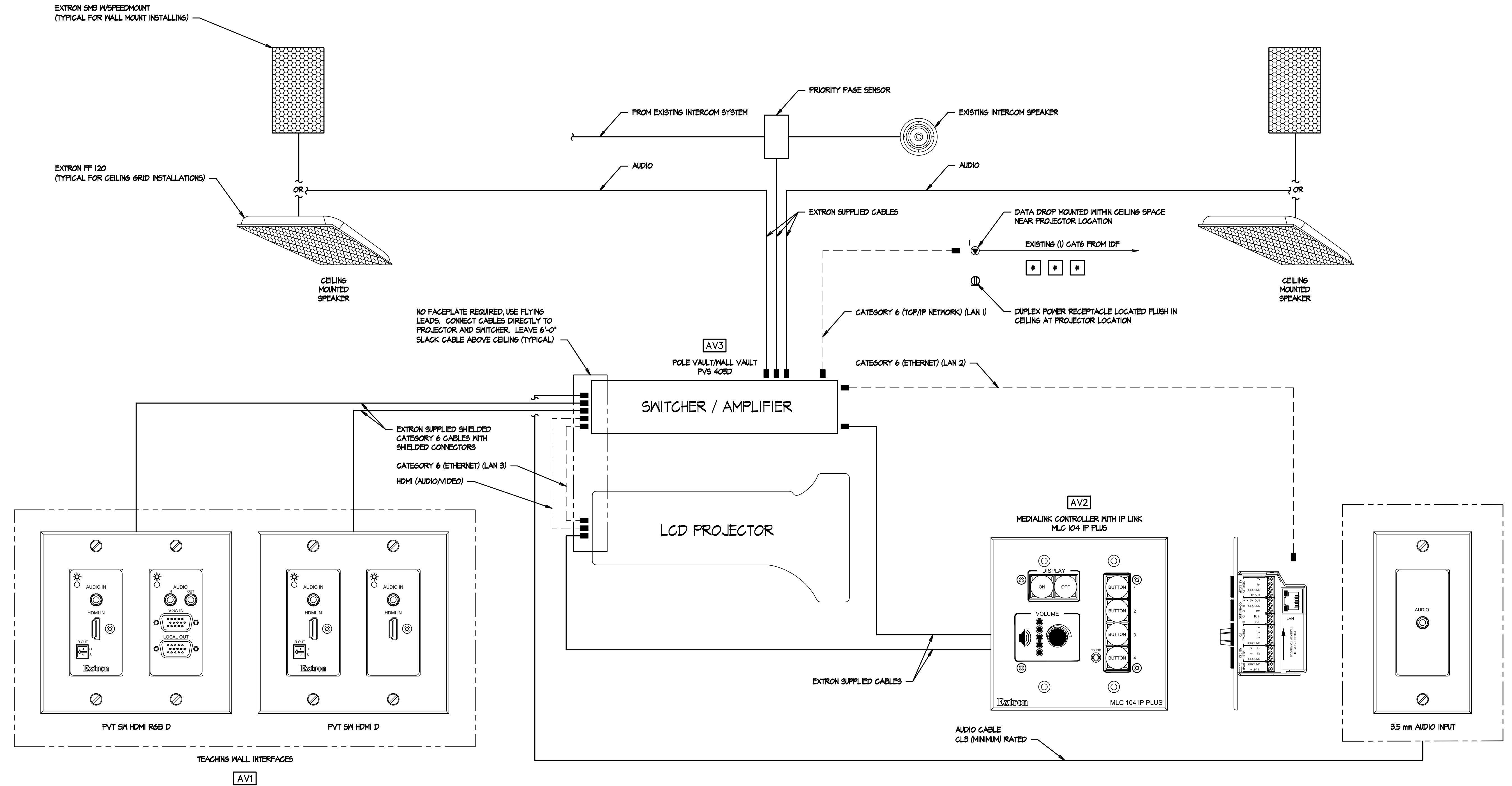
02/14/2014

JOB #

13392

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DETAIL NOTES

1. CONTRACTOR SHALL PROVIDE AND INSTALL A FULLY FUNCTIONING AUDIO/VISUAL SYSTEM PER PLANS, DETAILS AND SPECIFICATIONS.
2. DATA OUTLETS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL INSTALL ACTUAL DATA DROP QUANTITIES PER FLOOR PLANS AND RISER DIAGRAMS.
3. ALL AUDIO/VISUAL INTERFACES TO BE WHITE.

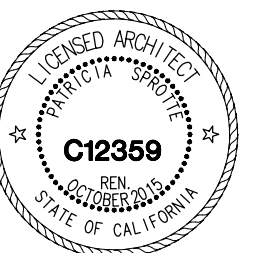
WIRE LEGEND

- — — — — COMPONENT PATCH CORD
- — — — — CAT6 TO IDF
- — — — — STRUCTURED CABLING
- — — — — WIRE/CABLING IN WALL OR SPECIFIED PATHWAY

TYPICAL AUDIO/VISUAL WIRING DETAIL

NO SCALE

1
ET-52



CONSULTANT

APPROVALS

DESCRIPTION

AUDIO/VISUAL
DETAILS

DATE

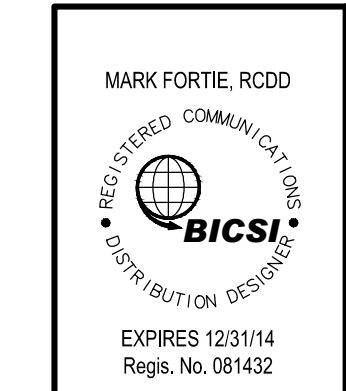
02/14/2014

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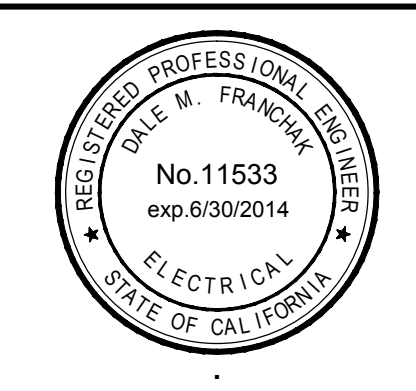
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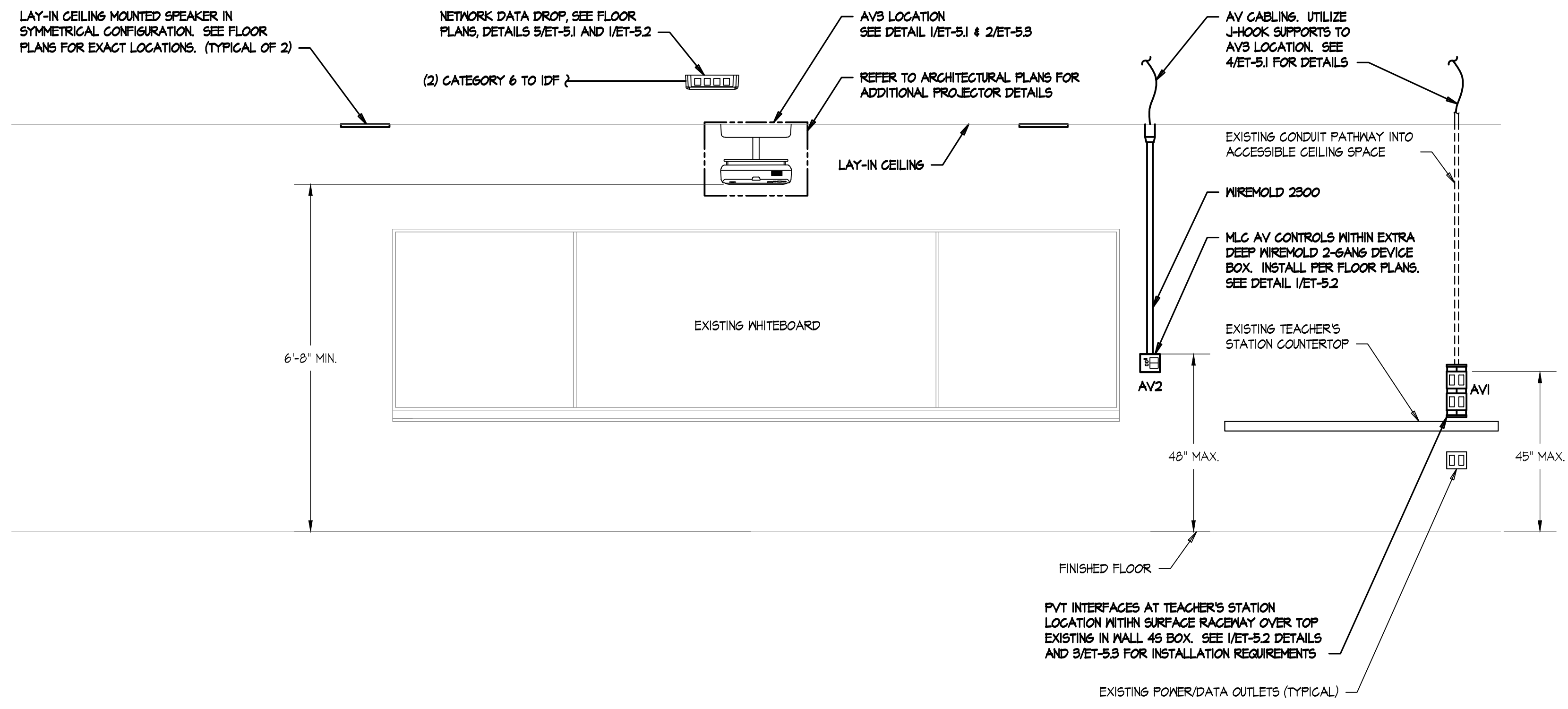
SHEET #

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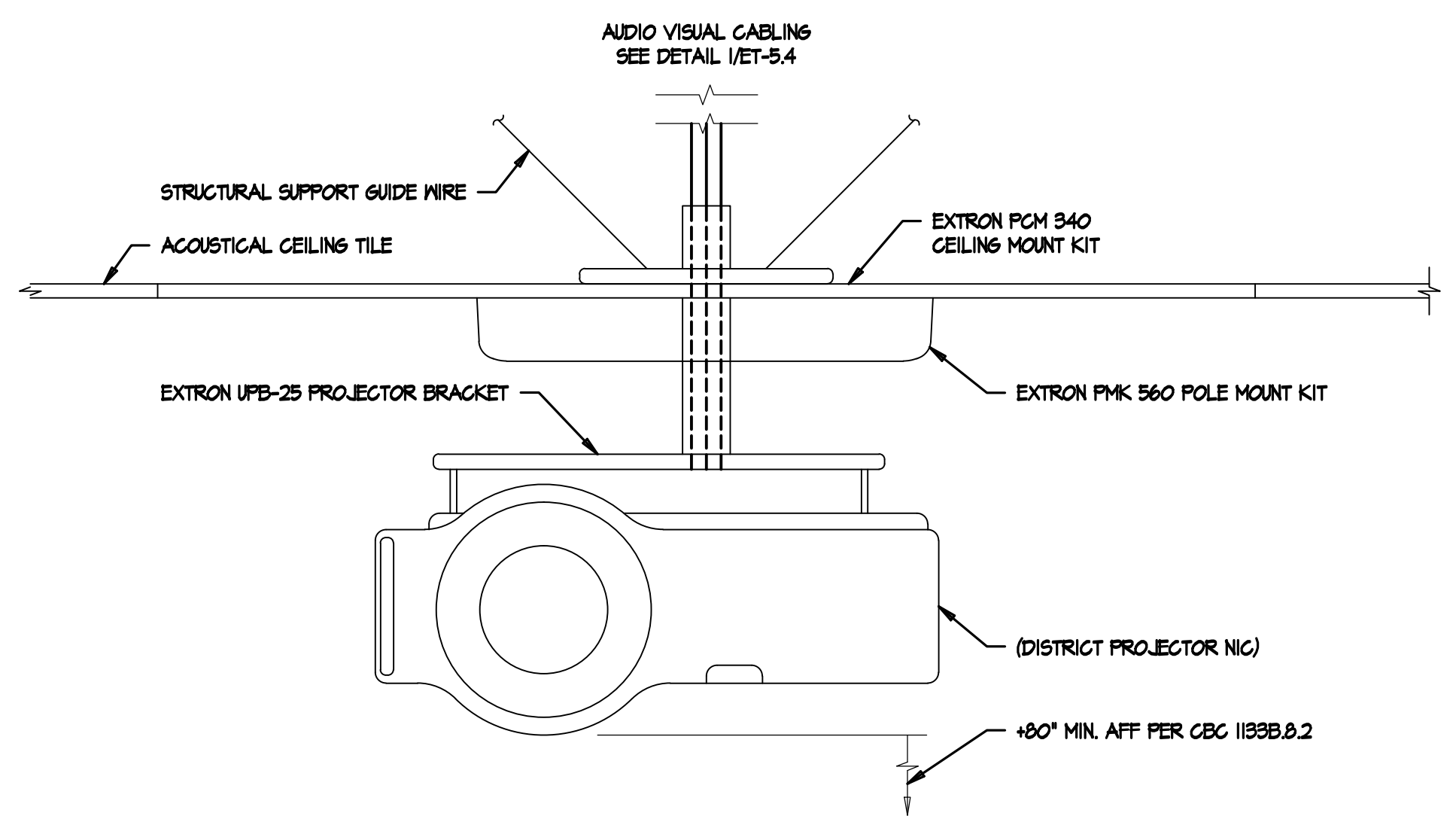


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619 / 466 / 6224 FAX 466 / 6233
E-MAIL: ENGINEER@TREISD.COM
TREI # 13392



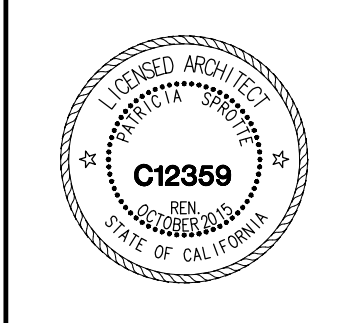


AUDIO/VISUAL CEILING MOUNTED PROJECTOR DETAIL (TYPICAL CLASSROOM)
 NO SCALE



- NOTES**
1. ALL PROJECTOR RELATED CEILING-MOUNTED INTERFACES SHALL BE MOUNTED IN CLOSE PROXIMITY, WITHIN 2 TO 3 FEET, OF THE PROJECTOR MOUNT.
 2. GENERAL CONTRACTOR SHALL COORDINATE WITH ALL INSTALLATION TRADES TO LOCATE PROJECTOR MOUNT, CEILING INTERFACES, AND CAT6 NETWORK DROP, AS INDICATED WITH NO OBSTRUCTIONS FROM EQUIPMENT OR OTHER SYSTEMS INCLUDING BUT NOT LIMITED TO: LIGHTING, CEILING FANS, SPRINKLERS, FIRE-ALARM DEVICES, SPEAKERS, AND CABLING.
 3. ADJUSTABLE PROJECTOR MOUNTING PLATE TO BE SET INTO ACOUSTICAL PANEL. REFER TO ARCHITECTURAL DETAILS AND SPECIFICATIONS FOR INSTALLATION. TOTAL WEIGHT OF PROJECTOR AND MOUNTING SYSTEM SHALL NOT EXCEED 50 LBS.
 4. MOUNT PROJECTOR PLATE 12\"/>

AUDIO/VISUAL CEILING PROJECTOR DETAIL
 NO SCALE



IT UPGRADE YEAR TWO
 LOS COCHES CREEK MIDDLE SCHOOL
 CAJON VALLEY UNION SCHOOL DISTRICT
 9669 DUNBAR LANE
 EL CAJON, CA 92021

CONSULTANT

APPROVALS

DESCRIPTION

AUDIO/VISUAL
 DETAILS

DATE

02/14/2014

JOB #

13392

SHEET #

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 ENGINEERING, INC.
 CONSULTING ENGINEERS
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 LA MESA, CA 91941-5221
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