I. GENERAL REQUIREMENTS

A. THE STRUCTURAL DRAWINGS AND PROJECT SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THE MEANS, METHODS, PROCEDURES AND SEQUENCE OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

B. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL STANDARDS.

C. ALL CONSTRUCTION, TESTING, AND INSPECTIONS SHALL CONFORM TO THE BUILDING CODE REFERENCED UNDER THE HEADING "BASIS OF DESIGN" BELOW.

D. STANDARDS REFERENCED IN THESE DRAWINGS SHALL BE THE LATEST EDITION, UNLESS OTHERWISE NOTED.

E. SEE DRAWINGS OTHER THAN STRUCTURAL FOR; OPENINGS IN WALLS AND FLOORS REQUIRED BY MEP FEATURES; CURBS; SLOPES; DRAINS; PADS; EMBEDDED ITEMS; ETC. COORDINATE THESE ITEMS WITH THE STRUCTURAL DRAWINGS.

F. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT AND SEOR.

G. OMISSIONS OR DISCREPANCIES BETWEEN THE VARIOUS ELEMENTS OF THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE SEOR AND RESOLVED BEFORE PROCEEDING WITH THE WORK.

H. DO NOT SCALE THE DRAWINGS; USE WRITTEN DIMENSIONS ONLY. WHERE NO DIMENSIONS ARE PROVIDED OR WHERE DIMENSIONS PROVIDED CONFLICT WITH OTHER DRAWINGS, CONSULT THE SEOR.

I. TYPICAL DETAILS ARE INTENDED TO APPLY TO APPLICABLE SITUATIONS, UNLESS OTHERWISE NOTED. TYPICAL DETAILS MAY NOT BE SPECIFICALLY LOCATED.

J. DETAILS SHALL BE APPLIED TO EVERY LIKE CONDITION WHETHER OR NOT THEY ARE REFERENCED IN EVERY INSTANCE. FOR CONDITIONS NOT SPECIFICALLY SHOWN, USE DETAILS SIMILAR TO THOSE PROVIDED.

K. THE CONTRACTOR SHALL VERIFY THAT CONSTRUCTION LOADS DO NOT EXCEED THE CAPACITY OF THE STRUCTURE AT THE TIME THE LOADS ARE PLACED.

II. BASIS OF DESIGN

A. THE STRUCTURAL DESIGN OF THIS PROJECT IS GOVERNED BY THE 2013 CALIFORNIA BUILDING CODE (CBC) WITH SS/DSA AMMENDMENTS.

B. RISK CATEGORY = III

C. DEAD LOADS:
1. SELF-WEIGHT OF STRUCTURE
2. MECHANICAL UNITS = SEE WEIGHT ON PLAN

D. LIVE LOADS:
1. CLASSROOMS = 50 PSF
2. ROOF = 20 PSF

E. WIND DESIGN DATA:
1. BASIC WIND SPEED = 115 MPH
2. EXPOSURE CATEGORY = C
3. TOPOGRAPHIC FACTOR = 1.0

F. SEISMIC DESIGN DATA:
1. Ip = 1.00
2. SDS = 1.080
3. SP1 = 0.556
4. SITE CLASS = D
5. SEISMIC DESIGN CATEGORY = D
6. ap = VARIES
7. Rp = VARIES

III. WOOD

A. ALL WOOD FRAMING SHALL CONFORM TO NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION AND APA PDS, PLYWOOD DESIGN SPECIFICATION.

B. ALL WOOD FRAMING SHALL BE DOUGLAS FIR LARCH, UNLESS OTHERWISE NOTED. GRADE SHALL BE AS FOLLOWS:
1. JOISTS = 1
2. BEAMS = 1
3. BLOCKING AND MISCELLANEOUS = 2

C. REJECTION OF WOOD MEMBERS: THE PROVISION IN DOC PS 20 (AS REFERENCED BY CBC 2303.1.1) WHICH PERMITS FIVE PERCENT OF THE MATERIAL TO FALL BELOW GRADE SHALL NOT BE CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD-CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIC ALLOWABLE STRESSES AND ACCEPTABLE SAFETY FACTORS. MATERIALS WHICH FALL BELOW GRADE SHALL BE REJECTED FOR LOAD-CARRYING USE. WOOD MEMBERS WHICH ARE REQUIRED TO CARRY DESIGN LOADS AND WHICH THE PROJECT ARCHITECT, SEOR OR INSPECTOR JUDGE TO BE MISGRADED SHALL BE REINSPECTED BY A QUALIFIED LUMBER GRADING INSPECTOR TO VERIFY THE PROPER GRADING OF THE MATERIAL. WOOD MEMBERS WHICH HAVE PERMISSIBLE GRADE CHARACTERISTICS OR DEFECTS IN SUCH COMBINATION AS TO AFFECT THE SERVICEABILITY OF THE MEMBER SHALL BE REJECTED BY THE PROJECT INSPECTOR WITH THE CONCURRENCE OF THE ARCHITECT OR SEOR.

D. MAXIMUM MOISTURE CONTENT SHALL BE 15% AT TIME OF FRAMING FOR NEW WOOD MEMBERS ADJACENT TO EXISTING WOOD MEMBERS.

E. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE OR EQUAL PRODUCT IF APPROVED BY SEOR. SIMPSON DESIGNATIONS USED IN THESE DRAWINGS.

F. LAG BOLTS AND UNFINISHED MACHINE BOLTS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD.

G. ANCHOR RODS SHALL CONFORM TO ASTM F1554 GR 36.

H. FASTENERS INSTALLED IN PRESSURE TREATED OR FIRE RETARDANT TREATED WOOD SHALL BE GALVANIZED.

IV. POST-INSTALLED ANCHORS

A. POST-INSTALLED ANCHORS INCLUDE EXPANSION ANCHORS AND POWDER-ACTUATED FASTENERS.

B. DO NOT DAMAGE OR CUT EXISTING REINFORCING STEEL WHILE INSTALLING POST-INSTALLED ANCHORS. NOTIFY SEOR IF EXISTING REINFORCING STEEL INTERFERES WITH INSTALLATION OF POST-INSTALLED ANCHORS.

C. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL NOT BE USED AND SHALL BE GROUTED SOLID.

D. ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE ICC-ES REPORT AND MANUFACTURER'S RECOMMENDATIONS.

E. PROVIDE SPECIAL INSPECTION FOR THE INSTALLATION OF ALL POST-INSTALLED ANCHORS, UNLESS OTHERWISE NOTED.

F. FIELD TEST POST-INSTALLED ANCHORS, UNLESS OTHERWISE NOTED. FIELD TESTING SHALL BE IN COMPLIANCE WITH THE FOLLOWING:
1. 50% OF POST-INSTALLED ANCHORS USED FOR NON-STRUCTURAL APPLICATIONS SHALL BE TESTED, INCLUDING ONE HALF OF ALL ANCHORS IN EACH GROUP.
   a. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE THAT ARE UNTESTED SHALL BE TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS.
2. TORQUE TESTING MAY BE USED FOR TORQUE CONTROLLED POST-INSTALLED ANCHORS; TENSION TEST ALL OTHER POST-INSTALLED ANCHORS.
3. TORQUE TESTING SHALL BE IN ACCORDANCE WITH CBC SECTION 1913A.7.4.2.
4. TENSION TESTING SHALL BE IN ACCORDANCE WITH CBC SECTION 1913A.7.4.1.
5. ALL FIELD TESTING SHALL BE DONE UNDER THE OBSERVATION OF THE PROJECT INSPECTOR.
6. TESTING SHALL OCCUR AT LEAST 24 HOURS AFTER THE ANCHOR HAS BEEN INSTALLED.

G. EXPANSION ANCHORS
1. FOR INSTALLATION IN CONCRETE, EXPANSION ANCHORS SHALL BE ONE OF THE FOLLOWING:
   a. STRONG BOLT 2 PER ICC-ES ESR-3037 AS MANUFACTURED BY SIMPSON STRONG TIE.
   b. KWIK BOLT TZ PER ICC-ES ESR-1917 AS MANUFACTURED BY HILTI, INC.
2. USE STAINLESS STEEL AT EXTERIOR, WEATHER-EXPOSED OR DAMP LOCATIONS; CARBON STEEL EXPANSION ANCHORS MAY BE USED AT ALL OTHER LOCATION, UNLESS OTHERWISE NOTED.
3. MINIMUM ANCHOR EMBEDMENT AND TORQUE TEST VALUES ARE AS FOLLOWS:

KWIK BOLT TZ IN NORMAL WEIGHT CONCRETE (f'c = 3000 PSI MIN)			
ANCHOR DIAMETER (IN)	EMBED (IN)	MINIMUM HOLE DEPTH (IN)	TORQUE TEST VALUE (FT-LBS)
3/8	2 5/16	2 5/8	25
1/2	2 3/8	2 5/8	40
5/8	4 7/16	4 3/4	60
3/4	5 9/16	5 3/4	110

STRONG BOLT 2 IN NORMAL WEIGHT CONCRETE (f'c = 3000 PSI MIN)			
ANCHOR DIAMETER (IN)	EMBED (IN)	MINIMUM HOLE DEPTH (IN)	TORQUE TEST VALUE (FT-LBS)
3/8	1 7/8	2	30
1/2	2 3/4	3	60
5/8	5 1/8	5 3/8	90
3/4	5 3/4	6	150

KWIK BOLT TZ IN LIGHT WEIGHT CONCRETE (f'c = 3000 PSI MIN)			
ANCHOR DIAMETER	EMBED (IN)	MINIMUM HOLE	TORQUE TEST
(IN)		DEPTH (IN)	VALUE (FT-LBS)
3/8	2 5/16	2 5/8	25
1/2	2 3/8	2 5/8	40
5/8	3 9/16	3 7/8	60

STRONG BOLT 2 IN LIGHT WEIGHT CONCRETE (f'c = 3000 PSI MIN)			
ANCHOR DIAMETER	EMBED (IN)	MINIMUM HOLE	TORQUE TEST
(IN)		DEPTH (IN)	VALUE (FT-LBS)
3/8	1 7/8	2	30
1/2	2 3/4	3	60
5/8	3 3/8	3 5/8	90
3/4	4 1/8	4 3/8	150

H. POWDER-ACTUATED FASTENERS
1. PAF SHALL BE ONE OF THE FOLLOWING:
   a. SIMPSON STRONG TIE POWDER-ACTUATED FASTENERS PER ICC-ES ESR-2138 FOR ANCHORAGE OF METAL TO CONCRETE, OR STEEL.
   b. HILTI, INC. X-U PER ICC-ES ESR-2269 FOR ANCHORAGE OF METAL TO CONCRETE, OR STEEL
2. PROVIDE 0.08"x1.1"x1.1" SQUARE OR 0.08"x1.425" DIAMETER ROUND WASHER AT EACH PAF.
3. MINIMUM PAF EMBED INTO CONCRETE SHALL BE 1", UNLESS OTHERWISE NOTED.
4. MINIMUM PAF EMBED INTO STEEL SHALL BE PER MANUFACTURER.

ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION
(E)	EXISTING
ADDL	ADDITIONAL
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BTWN	BETWEEN
CL	CENTER LINE
CLR	CLEAR OR CLEARANCE
CONN	CONNECTION(S)
CONT	CONTINUOUS
CTR	CENTER
CTRD	CENTERED
CTRSK	COUNTERSINK
db	DIAMETER OF BOLT OR REBAR
DF	DOUGLAS FIR
DIA	DIAMETER
DWG(S)	DRAWING(S)
EA	EACH
EF	EACH FACE
EMBED	EMBEDMENT
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXP	EXPANSION
GA	GAGE, GAUGE
GLB	GLUE-LAMINATED BEAM
GR	GRADE
HGR	HANGER
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION (TUBE STEEL)
HVAC	HEATING VENTING AND AIR CONDITIONING
INFO	INFORMATION
LBS	POUNDS
MAX	MAXIMUM
MB	UNFINISHED MACHINE BOLT
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OH	OPPOSITE HAND
OPNG(S)	OPENING(S)
PAF	POWDER ACTUATED FASTENER
PERP	PERPENDICULAR
PL	PLATE
PLY	PLYWOOD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
REF	REFERENCE
REQD	REQUIRED
REV	REVISION
SCHED	SCHEDULE(D)
SEOR	STRUCTURAL ENGINEER OF RECORD
SF	SQUARE FOOT (FEET)
SHT	SHEET
SIM	SIMILAR
SMD	SEE MECHANICAL DRAWINGS
SMS	SHEET METAL SCREW(S)
STAGG'D	STAGGERED
STD	STANDARD
T&B	TOP AND BOTTOM
THRD'D	THREADED
TO	TOP OF
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WF	WIDE FLANGE
WT	WEIGHT

	ISSUES

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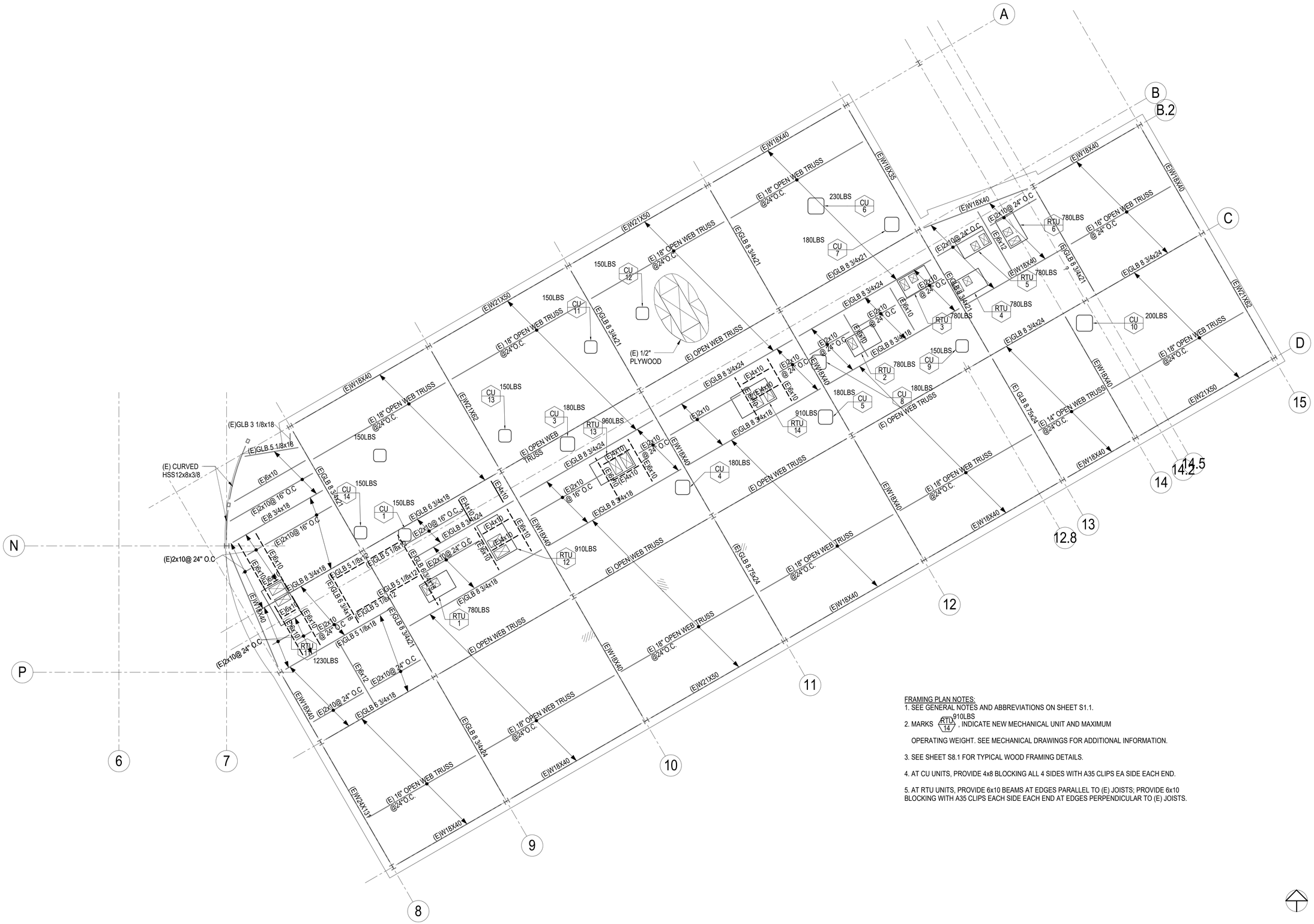
GENERAL NOTES AND ABBREVIATIONS

Date: 12/29/2016
Scale: 1 1/2" = 1'-0"
Drawn: TTD
Job: 16201
Sheet
S1.1
Of . Sheets



FRAMING PLAN NOTES:

1. SEE GENERAL NOTES AND ABBREVIATIONS ON SHEET S1.1.
2. MARKS RTU 14 910LBS, INDICATE NEW MECHANICAL UNIT AND MAXIMUM OPERATING WEIGHT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. SEE SHEET S8.1 FOR TYPICAL WOOD FRAMING DETAILS.
4. AT CU UNITS, PROVIDE 4x8 BLOCKING ALL 4 SIDES WITH A35 CLIPS EA SIDE EACH END.
5. AT RTU UNITS, PROVIDE 6x10 BEAMS AT EDGES PARALLEL TO (E) JOISTS; PROVIDE 6x10 BLOCKING WITH A35 CLIPS EACH SIDE EACH END AT EDGES PERPENDICULAR TO (E) JOISTS.

1 VALLEJO EDUCATION CENTER EAST ROOF FRAMING PLAN

1/8" = 1'-0"

	ISSUES

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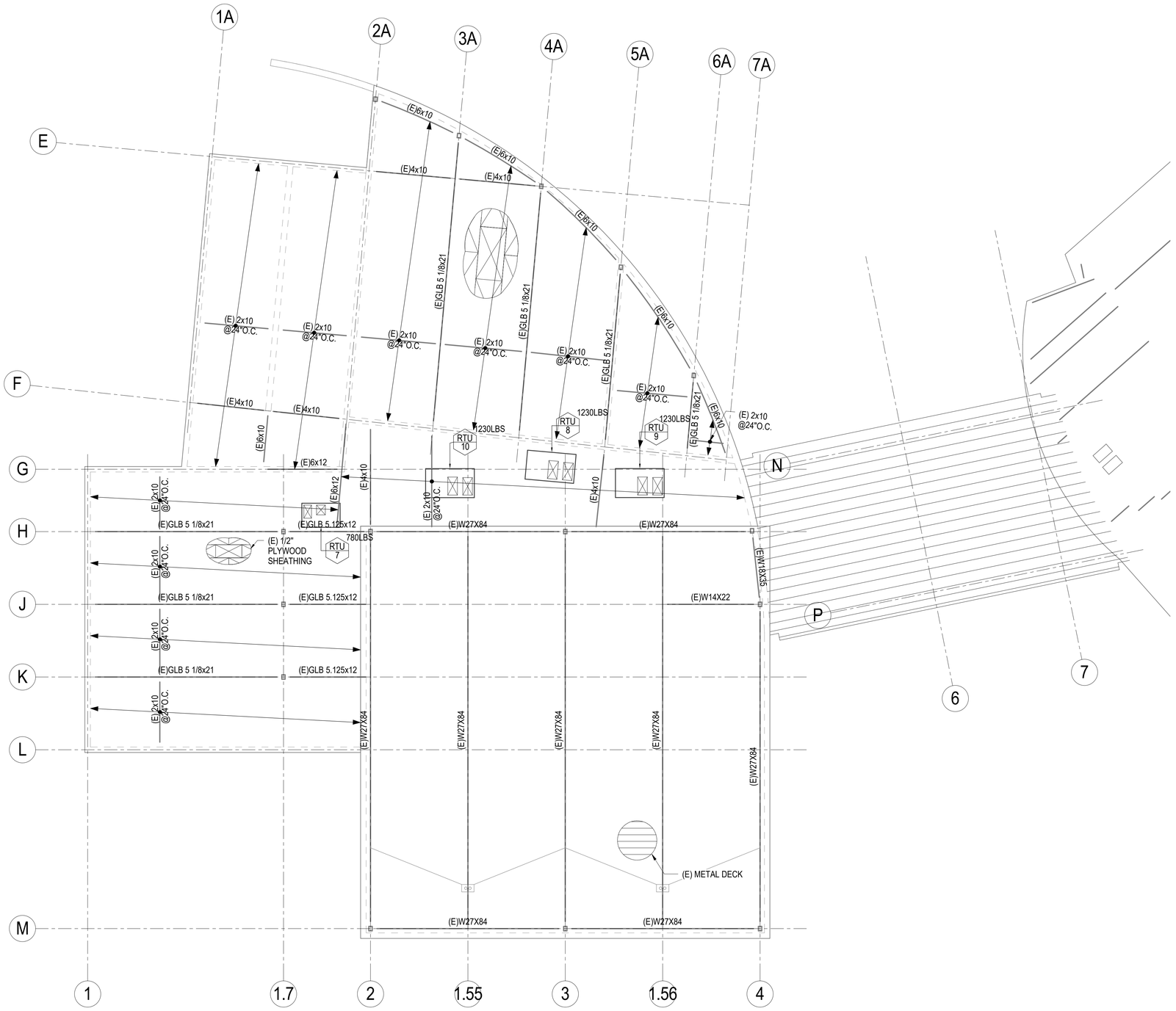
VALLEJO EDUCATION CENTER EAST ROOF FRAMING PLAN

Date:	12/29/2016
Scale:	1/8" = 1'-0"
Drawn:	VT
Job:	16201
Sheet	S2.1
Of	Sheets



FRAMING PLAN NOTES:
1. SEE NOTES ON SHEET S2.1.

1 VALLEJO EDUCATION CENTER WEST ROOF FRAMING PLAN

1/8" = 1'-0"

ISSUES

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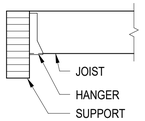
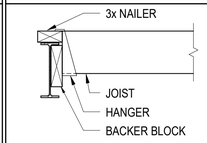
VALLEJO EDUCATION CENTER WEST ROOF FRAMING PLAN

Date: 12/29/2016
Scale: 1/8" = 1'-0"
Drawn: VT
Job: 16201
Sheet S2.2
Of . Sheets

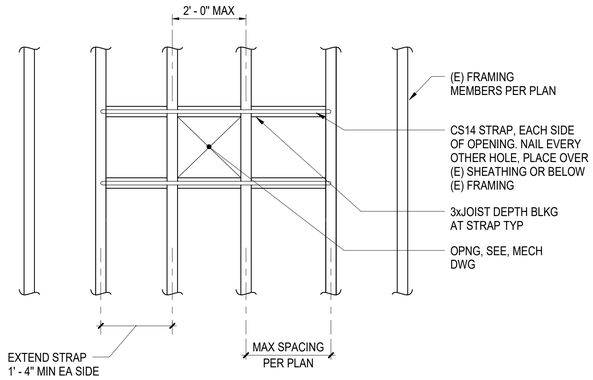
HANGER SCHEDULE				
	JOIST TO (E) WOOD BEAM		JOIST TO (E) STEEL WF BEAM	
				
JOIST SIZE	TYPICAL HANGER	FASTENERS INTO SUPPORT	TYPICAL HANGER	FASTENERS INTO NAILER
2x4	LUS24	4-10dx1-1/2"	HU24TF	6-16dx2-1/2"
2x6	LUS26	4-10dx1-1/2"	LB26	4-16dx2-1/2"
2x8	LUS28	6-10dx1-1/2"	LB28	4-16dx2-1/2"
2x10	LUS210	8-10dx1-1/2"	LB210AZ	6-16dx2-1/2"
2x12	LUS210	8-10dx1-1/2"	LB212AZ	6-16dx2-1/2"
4x6	HU46	12-16dx2-1/2"	HU46TF	10-16dx2-1/2"
4x8	HU48	14-16dx2-1/2"	HW48	4-10dx2-1/2"
4x10	HU48	14-16dx2-1/2"	HW48	4-10dx2-1/2"
4x12	HU48	14-16dx2-1/2"	HW48	4-10dx2-1/2"
6x6	HU66	12-16dx2-1/2"	HU66TF	10-16dx2-1/2"
6x8	HU68	14-10dx1-1/2"	HW68	4-10dx2-1/2"
6x10	HU68	14-10dx1-1/2"	HW68	4-10dx2-1/2"

NOTES:
1. PROVIDE AND INSTALL NAILS INTO JOIST PER HANGER MANUFACTURER'S INSTRUCTIONS. FILL ALL HOLES TO ACHIEVE MAXIMUM VALUES AS SPECIFIED BY MFR.

2. SEE DETAIL 6 FOR TYPICAL ATTACHMENT O BACKER BLOCK TO (E) WIDE FLANGE BEAMS.

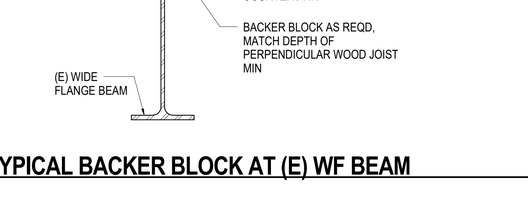
7 HANGER SCHEDULE

NTS

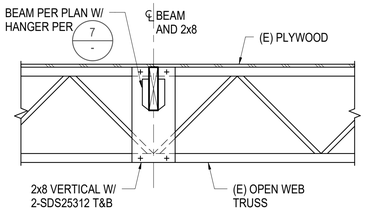


4 SMALL OPENING IN (E) ROOF

NTS



NOTE:
1. STRAPS CAN BE PLACED OVER (E) SHEATHING OR BELOW (E) SHEATHING.
2. FOR OPENINGS NOT SHOWN ON STRUCTURAL PLANS, NOTIFY SEOR.

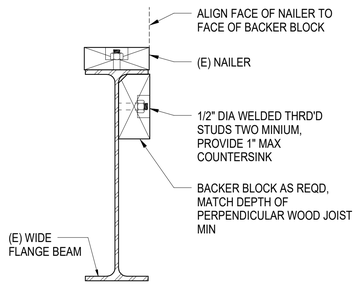


8 BEAM CONNECTION TO (E) OPEN WEB TRUSS

1" = 1'-0"

5 LARGE OPENINGS IN DIAPHRAGM

NTS



6 TYPICAL BACKER BLOCK AT (E) WF BEAM

NTS

	CONNECTION	NAILING [a,m]
1.	Joist to sill or girder, toenail	3-8d
2.	Bridging to joists, toenail each end	2-8d
3.	1" x 6" subfloor or less to each joist, face nail	2-8d
4.	Wider than 1" x 6" subfloor to each joist, face nail	3-8d
5.	2" subfloor to joist or girder, blind and face nail	2-16d
6.	Sole plate to joist or blocking, typical face nail Sole plate to joist or blocking, at braced wall panels	16d at 16" OC 3-16d per 16"
7.	Top plate to stud, end nail	2-16d
8.	Stud to sole plate	4-8d, toenail or 2-16d, end nail
9.	Double studs, face nail	16d at 24"OC
10.	Double top plates, typical face nail	16d at 16"OC UON
11.	Blocking between joists or rafters to top plate, toenail	3-8d
12.	Rim joist to top plate, toenail	8d at 6" OC
13.	Top plates, laps and intersections, face nail	2-16d
14.	Continuous header, two pieces	16d at 16" OC along each side
15.	Ceiling joists to plate, toenail	3-8d
16.	Continuous header to stud, toenail	4-8d
17.	Ceiling joist, laps over partitions, face nail	3-16d [q]
18.	Ceiling joists to parallel rafters, face nail	3-16d [q]
19.	Rafter to plate, toenail	3-8d [r]
20.	1" brace to each stud and plate, face nail	2-8d
21.	1" x 8" sheathing or less to each bearing, face nail	3-8d
22.	Wider than 1" x 8" sheathing to each bearing, face nail	3-8d
23.	Built-up corner studs	16d at 24" OC
24.	Built-up girder and beams	20d at 32" OC face nail at top & bottom & staggered on opposite sides 2-20d face nail at ends
25.	2" planks	16d at each bearing
26.	Collar tie to rafter, face nail	3-10d
27.	Jack rafter to hip, toenail Jack rafter to hip, facenail	3-10d 2-16d
28.	Roof rafter to 2-by ridge beam, toenail Roof rafter to 2-by ridge beam, face nail	2-16d 2-16d
29.	Joist to band joist, face nail	3-16d
30.	Ledger strip, face nail	3-16d each stud
31.	Wood structural panels and particleboard [b] Subfloor, roof and wall sheathing (to framing): 1/2" and less 19/32" - 3/4" 7/8" - 1" 1 1/8" - 1 1/4" Combination subfloor-underlayment (to framing): 3/4" and less 7/8" - 1" 1 1/8" - 1 1/4"	 6d [c] 8d [d] or 6d [e] 8d [e] 10d [d] or 8d [e] 6d [e] 8d [e] 10d [d] or 8d [e]
32.	Panel siding (to framing): 1/2" or less 5/8"	 6d [f] 8d [f]
33.	Fiberboard Sheathing: [g] 1/2" 25/32"	 No. 11 ga [h] 6d [d] No. 16 ga [i] No. 11 ga [h] 8d [d] No. 16 ga [i]
34.	Interior paneling 1/4" 3/8"	 4d [j] 6d [k]

3 NAILING SCHEDULE

1" = 1'-0"

NTS

FOOTNOTES:

a. USE COMMON WIRE NAILS EXCEPT WHERE OTHERWISE STATED.

b. NAILS SPACED AT 6 INCHES ON CENTER AT EDGES. 12 INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO CBC (IBC) SECTION 2305. NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING.

c. COMMON OR DEFORMED SHANK. (6d-2", 8d-2 1/2", 10d-3")

d. COMMON. (6d-2", 8d-2 1/2", 10d-3")

e. DEFORMED SHANK. (6d-2", 8d-2 1/2", 10d-3")

f. CORROSION-RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 2304.9.5.

g. FASTENERS SPACED 3 INCHES ON CENTER AT EXTERIOR EDGES AND 6 INCHES ON CENTER AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NON STRUCTURAL APPLICATIONS.

h. CORROSION-RESISTANT ROOFING NAILS WITH 7/16" INCH-DIAMETER HEAD AND 1 1/2"-INCH LENGTH FOR 1/2"-INCH SHEATHING AND 1 3/4"-INCH LENGTH FOR 25/32-INCH SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.9.5.

i. CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16-INCH CROWN AND 1-1/8-INCH LENGTH FOR 1/2-INCH SHEATHING AND 1 1/2-INCH LENGTH FOR 25/32-INCH SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.9.5.

j. CASING OR FINISH NAILS SPACED 6-INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.

k. PANEL SUPPORTS AT 24". CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.

l. FOR ROOF SHEATHING APPLICATIONS, 8D NAILS ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.

m. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16 INCH.

n. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.

o. FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3 INCHES ON CENTER AT EDGES, 6 INCHES AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.

p. FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.

q. FOR ROOF JOISTS AND RAFTERS, MINIMUM NAILING PER CBC (IBC)TABLE 2308.10.4.1.

r. FOR ROOF SLOPES 3:12 OR GREATER IN WHICH CEILING JOISTS SERVE AS A TIE FOR ROOF RAFTERS, MINIMUM NAILING OR HOLDOWN STRAPSMUST BE ADEQUATE TO WITHSTAND MINIMUM WIND UPLIFT PER CBC (IBC) TABLE 2308.10.1.

	ISSUES

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TYPICAL WOOD DETAILS

Date: 12/29/2016
Scale: As indicated
Drawn: Author
Job: 16201
Sheet: S8.1
Of . Sheets

GENERAL ELECTRICAL NOTES

1. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRIC CODE, STATE LAWS, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
2. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING JOB CONDITION. HE SHALL EXAMINE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND SHALL HAVE HAD VISITED THE CONSTRUCTION SITE, PRIOR TO SUBMITTING HIS BID PROPOSAL. HE SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART. DETERMINE THE SEQUENCE OF CONSTRUCTION THROUGHOUT THE PROJECT, INCLUDING TEMPORARY FACILITIES AND CONNECTIONS REQUIRED FOR THE DURATION OF THE PROJECT.
3. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS, AND PAY ANY AND ALL FEES AS REQUIRED.
4. EXISTING ARCHITECTURAL SURFACES DISTURBED DURING CONSTRUCTION SHALL BE PATCHED AND PAINTED TO MATCH EXISTING.
5. WORK SHOWN IN THESE PLANS ARE NEW, UON. INSTALLATION SHALL BE CONCEALED. WHERE NOT POSSIBLE, CONTRACTOR SHALL OBTAIN APPROVAL FROM ARCHITECT AND ENGINEER FOR EXPOSED INSTALLATION. A WRITTEN APPROVAL IS REQUIRED. USE SURFACE RACEWAYS, WIREMOLD, OR EQUAL. ALL ELECTRIC MATERIALS, DEVICES, AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND U.L. APPROVED
6. ALL CONDUIT SHALL BE 3/4" MINIMUM. ALL CONDUIT SHALL BE RUN PARALLEL TO EXISTING SURFACES. WHEN CONDUIT CROSSES CORRIDORS OR ROOMS IT SHALL BE DONE PERPENDICULAR TO WALLS.
7. SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS. FURNISH AND INSTALL FIRE RATED BACKBOXES AS REQUIRED TO MAINTAIN FIRE RATING OF CEILING OR WALLS WHERE RECESSED ELECTRIC EQUIPMENT SUCH AS LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANEL, ETC. ARE INSTALLED IN RATED WALL OR CEILINGS. PENETRATIONS OF FIRE RATED WALLS, CEILINGS, OR FLOORS SHALL COMPLY WITH CBC CHAPTER 7 REQUIREMENTS. IN WALLS AND PARTITIONS THAT ARE FOR FIRE RESISTIVE CONSTRUCTION, OPENINGS FOR STEEL ELECTRICAL OUTLET BOXES SHALL NOT EXCEED 16 SQUARES INCHES. IN ADDITION, THE AGGREGRATE AREA OF SUCH OPENING SHALL NOT EXCEED 100 SQ IN FOR ANY 100 SQUARE FEET OF WALL OR PARTITION. OUTLET BOXES ON OPPOSITE SIDES OF THE WALLS OR PARTITION SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES, OR BE PROVIDED WITH FIRE PUTTY.
8. ALL NEW WIRING SHALL BE IN CONDUIT. COORDINATE ROUTING OF CONDUIT WITH ARCHITECT AND STRUCTURAL FOR OPENINGS IN WALLS AND ANY NOTCHING OF JOISTS.
9. THE ELECTRICAL PLANS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL OF THE ARCHITECTURAL DETAILS OR SPECIFICS OF ELECTRICAL CONSTRUCTION. TAKE ALL DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS. BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, CONDUIT RUNS, ETC. WITH ARCHITECT AND OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN. SEE ELECTRICAL SECTION OF ARCHITECTURAL SPECIFICATION FOR ADDITIONAL INFORMATION.
10. PULLROPES: ANY RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AND LARGER.
11. ALL DEVICES AND EQUIPMENT INSTALLED OUTDOORS OR EXPOSED TO THE WEATHER SHALL BE OF WEATHERPROOF CONSTRUCTION. ALL WALL PENETRATIONS TO EXTERIOR WALLS SHALL BE SEALED WATER TIGHT.
12. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING (IE. MAXIMUM FUSE SIZE MEANS FUSE PROTECTION IS REQUIRED).
13. ALL EQUIPMENT MANUFACTURERS SHALL BE NOTED IN DRAWINGS. SUBSTITUTIONS ARE PERMITTED BUT MUST BE APPROVED EQUAL.
14. CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE MADE WITH A MINIMUM OF 24" OF WEATHERPROOF FLEXIBLE CONDUIT TO PREVENT SOUND AND VIBRATION TRANSMISSION TO THE STRUCTURE. COORDINATE ALL MOTOR OVERLOADS AND/OR FUSES FURNISHED BY THIS CONTRACT WITH THE ACTUAL EQUIPMENT INSTALLED. SIZE OVERLOADS BASED ON MOTOR NAMEPLATE FULL LOAD CURRENT AND SERVICE FACTOR. FUSES FOR MOTOR AND TRANSFORMER CIRCUITS SHALL BE DUAL ELEMENT. FUSES FOR OTHER "NON-INRUSH" LOADS SHALL BE FAST ACTING. ALL FUSES SHALL BE CURRENT LIMITING CLASS RK5 OR CLASS L, UON. CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR MANUFACTURER INSTALLATION REQUIREMENTS.
15. SEE MECHANICAL AND PLUMBING DRAWINGS FOR LOCATION OF FANS AND WATER HEATERS.
16. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE MECHANICAL WORK AS CALLED FOR IN MECHANICAL SPECIFICATIONS.
17. GROUNDING CONDUCTORS ARE GENERALLY NOT SHOWN. GROUND AND BOND ALL EQUIPMENT, RACEWAYS, MOTORS, PANELBOARDS AND SWITCHBOARDS, ETC. IN ACCORDANCE WITH NEC ARTICLE 250.
18. FIELD MOUNTED DEVICES SUCH AS SWITCHES, MOTOR STARTERS, RECEPTACLES, ETC., ARE SHOWN IN THEIR APPROXIMATE LOCATION. SWITCH MOUNTING HEIGHT SHALL BE 48" ABOVE FINISHED FLOOR AND RECEPTACLE MOUNTING HEIGHT SHALL BE 18" ABOVE FINISHED FLOOR. CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR MANUFACTURER INSTALLATION REQUIREMENTS.
19. ELECTRICAL CONTRACTOR TO PROVIDE EXPANSION FITTINGS AT ALL EXPANSION JOINT LOCATION. USE STEEL FLEX 6 FEET EACH SIDE OF THE JOINT AND TERMINATE IN A PULLBOX AT EACH END, OR OTHER APPLIED METHODS.
20. ALL LIGHTING FIXTURE LOCATIONS AND ROUTING SHALL BE REVIEWED BY ARCHITECT PRIOR TO ROUGH-IN.
21. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MAINTAIN A MINIMUM OF 36" CLEARANCE PER NEC ARTICLE 110.26.
22. PENETRATIONS OF FIRE RATED WALLS CEILINGS OR FLOORS SHALL COMPLY WITH CBC CHAPTER 7 REQUIREMENTS.
23. WHERE OUTLET BOXES ARE INSTALLED WITHIN RATED ASSEMBLIES, PROVIDE 3M MOLDABLE PUTTY PADS OR EQUAL TO MAINTAIN FIRE RATED ASSEMBLIES.
24. ALL RECEPTACLES SHALL BE GROUNDING TYPE.
25. ALL RECEPTACLES INSTALLED IN BATHROOMS AND KITCHENS SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION AS REQUIRED BY THE NATIONAL ELECTRIC CODE.
26. CONTRACTOR TO CONFIRM EXACT LOCATION OF METERS WITH ELECTRIC UTILITY.
27. SUBMIT TO THE OWNER CERTIFICATES OF INSPECTIONS IN DUPLICATE FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION.
28. PERFORMANCE AND WITNESSING OF TESTS
    - A. THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND QUALIFIED PERSONNEL OR FIRM TO PERFORM ALL REQUIRED TESTS.
    - B. ALL NEW AND RECONNECTED ELECTRICAL CIRCUIT SHALL BE TESTED TO INSURE CIRCUIT CONTINUITY, INSULATION RESISTANCE, PROPER SPLICING AND GROUNDING IN ACCORDANCE WITH THE LATEST STANDARDS AS STATED ABOVE. BEFORE CONNECTING POWER CABLES TO MOTORS, THE INSULATION RESISTANCE OF ALL MOTOR WINDINGS SHALL BE TESTED IN ACCORDANCE WITH THE ABOVE STANDARDS.
    - C. ANY CONTRACTOR FURNISHED AND/OR INSTALLED SPLICE, RECOMMENDED VOLTAGE AND INSULATION RESISTANCE TESTS, SHALL BE CONNECTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
    - D. NO EQUIPMENT SHALL BE ENERGIZED UNTIL ALL TESTS AND ADJUSTMENTS HAVE BEEN MADE.
    - E. THREE COPIES OF ALL TEST RESULTS SHALL BE DELIVERED TO THE OWNER.

ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT
AF	AMPERE RATING OF FUSE
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
CKT	CIRCUIT
D	DEDICATED
E	EXISTING TO REMAIN
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
<F>	FUTURE
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CAN
G	GROUNDING CONDUCTOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
kVA	KILOVOLT AMPS
kW	KILOWATTS
LTG	LIGHTING
LTS	LIGHTS
LV	LOW VOLTAGE
MECH	MECHANICAL
MTD	MOUNTED
MV	MEDIUM VOLTAGE
N	NEUTRAL
(N)	NEW
N.E.C.	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PB	PULL BOX
PNL	PANEL
POS	POINT OF SALE
RR	REMOVE AND RELOCATE
RSC	RIGID STEEL CONDUIT
SLD	SINGLE LINE DIAGRAM SPEC SPECIFICATION
T	TELEPHONE
TV	TELEVISION
UG	UNDERGROUND
UAC	UNDER ANOTHER CONTRACT
UON	UNLESS OTHERWISE NOTED
V	VOLT
VP	VANDAL PROOF
W	WATTS
WP	WEATHERPROOF (NEMA 3R)
WT	WATERTIGHT
XFMR	TRANSFORMER

ELECTRICAL SYMBOLS

- REFERENCE SHEET NOTE
- DETAIL REFERENCE (#= DETAIL #, P=SHEET #)
- BRANCH CIRCUIT WIRING IN EXPOSED CONDUIT.
- BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND, OR CONCEALED IN CEILING OR WALL.
- BRANCH CIRCUIT HOMERUN TO PANEL. CONCEALED IN CEILING SPACE OR WHERE POSSIBLE.
- JUNCTION OR OUTLET BOX MOUNT ABOVE CEILING WITH BLANK COVER (F=FLUSH IN FINISHED CEILING)
- $ SINGLE POLE THROW SWITCH AND BOX, WALL MOUNTED, +48".
- $OS SINGLE POLE THROW SWITCH AND BOX WITH OCCUPANCY SENSOR, WALL MOUNTED, +48".
- $a SINGLE POLE SWITCH AND BOX, LOWERCASE LETTER INDICATES CIRCUIT OR LAMPS CONTROLLED BY SWITCH, +48".
- $RH RANGE HOOD CONTROL AT FRONT OF COUNTER. SEE ARCHITECTURAL ELEVATION.
- $3 THREE-WAY SWITCH
- $T HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS.
- USB USB CHARGER AND TAMPER RESISTANT RECEPTACLE. LEVITON T5630, OR APPROVED EQUAL.
- DUPLEX RECEPTACLE 20A, 125V, 3WG, NEMA 5-20R, +15" (UON). (WP=GFCI AND WEATHERPROOF WITH IN-USE COVER, D=DEDICATED)
- GFCI DUPLEX RECEPTACLE IP20A, WITH GROUND FAULT CIRCUIT INTERRUPTER, ABOVE COUNTER (UON). (WP=WEATHERPROOF)
- DUPLEX RECEPTACLE 20A, ABOVE COUNTER OR +42" AT LAUNDRY
- PANEL BOARD, 120/240V, SINGLE PHASE, 3W FLUSH IN RESIDENTIAL UNITS. 120/208V 3 PHASE, 4 WIRE FLUSH/SURFACE IN COMMUNITY BUILDING.
- OS OCCUPANCY SENSOR
- DATA OUTLET, FLUSH MOUNT IN WALL, +15" AFF. WITH 3/4"C. AND PULLCORD UP TO ABOVE ACCESSIBLE CEILING SPACE OR WALL SPACE.
- PHONE DATA OUTLET, FLUSH MOUNT IN WALL, +15" AFF. WITH 3/4"C. AND PULLCORD UP TO ABOVE ACCESSIBLE CEILING SPACE OR WALL SPACE.
- TELEPHONE OUTLET, FLUSH MOUNT IN WALL, +15" AFF. WITH 3/4"C. AND PULLCORD UP TO ABOVE ACCESSIBLE CEILING SPACE OR WALL SPACE.
- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH WITH DUAL ELEMENT FUSED (UON)
- 75 HORN & STROBE
- HARD WIRED SMOKE DETECTOR FOR DWELLING UNITS
- OS HARD WIRED COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR FOR DWELLING UNITS
- FACP FIRE ALARM CONTROL PANEL
- S 15 FA WALL MOUNTED STROBE
- F FA MANUAL PULL STATION

SCOPE OF WORK MATRIX

1. CONNECT TO EXISTING CIRCUIT AND FURNISH AND INSTALL NEW LOCAL DISCONNECTS FOR MECHANICAL EQUIPMENT REPLACED IN SAME LOCATION.
2. FURNISH AND INSTALL POWER AND LOCAL DISCONNECT FOR NEW MECHANICAL EQUIPMENT IN NEW LOCATION.
3. FURNISH AND INSTALL NEW BREAKERS TO FEED NEW MECHANICAL EQUIPMENT IN NEW LOCATIONS.

APPLICABLE CODES

1. 2013 BUILDING STANDARD ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2. 2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.; (2014 EMERGENCY SUPPLEMENT)
3. 2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.; (2011 NATIONAL ELECTRICAL CODE & 2013 CALIFORNIA AMENDMENT)
4. 2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.; (2012 UNIFORM MECHANICAL CODE & 2013 CALIFORNIA AMENDMENT)
5. 2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.; (2012 UNIFORM PLUMBING CODE & 2013 CALIFORNIA AMENDMENT)
6. 2013 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.;
7. 2013 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.; (2014 CALIFORNIA AMENDMENT)
9. 2013 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R (2014 CALIFORNIA SUPPLEMENTS)
10. 2013 CALIFORNIA "GREEN" BUILDING REQUIREMENTS, PART 11, TITLE 24 C.C.R (PENDING ADOPTION)
11. 2013 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
12. TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

AISC 360-05 SPECIFICATION FOR STRUCTURAL BUILDINGS
NDS-05 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH 2005 SUPPLEMENT
ACI-318-05 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
ASME 17.1 ELEVATOR STANDARD, 2007 EDITION
NFPA 13, AUTOMATIC SPRINKLER SYSTEM, 2013 EDITION
NFPA 14, STANDPIPE AND HOSE SYSTEMS, 2013 EDITION
NFPA 17-A, WET CHEMICAL EXTINGUISHING SYSTEMS, 2009 EDITION
NFPA 20, STATIONARY PUMPS, 2013 EDITION
NFPA 24, PRIVATE FIRE SERVICE MAINS, 2013 EDITION
NFPA 72, NATIONAL FIRE ALARM CODE, 2013 EDITION
(AS AMENDED BY SFM. NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES")
NFPA 253, CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS, 2006 EDITION
NFPA 2001, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2011 EDITION
REFERENCE CODE SECTION FOR NFPA STANDARDS - CBC(SFM) 3504.1
TITLE 24 C.C.R. ACCESSIBILITY STANDARDS
AMERICAN WITH DISABILITIES ACT - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

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E10.02	ELECTRICAL PANEL SCHEDULE

	ISSUES

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SOLANO COMMUNITY COLLEGE DISTRICT
VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

ELECTRICAL TITLE SHEET

Date: 12/29/2016
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	ELECTRIC					
	VOLTS	PHASE	MCA	MOCP	CONDUIT	CONDUCTORS
RTU-1	460	3	11	15		
RTU-2	460	3	11	15		
RTU-3	460	3	11	15		
RTU-4	460	3	11	15		
RTU-5	460	3	11	15		
RTU-6	460	3	11	15		
RTU-7	460	3	11	15		
RTU-8	460	3	19.9	25		
RTU-9	460	3	21.6	25		
RTU-10	460	3	21.6	25		
RTU-11	460	3	21.6	25		
RTU-12	460	3	12.8	15		
RTU-13	460	3	13.8	20		
RTU-14	460	3	12.8	15		
FCU-1	208	1	4	15		
FCU-2	208	1	4	15		
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CU-11	208	1	12	20		
CU-12	208	1	12	20		
CU-13	208	1	12	20		
CU-14	208	1	12	20		
B-1	120	1				
B-2	120	1				
HHWP-1	460	3				
HHWP-2	460	3				

	ISSUES

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VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

EQUIPMENT CONNECTION SCHEDULE

Date: 12/29/2016
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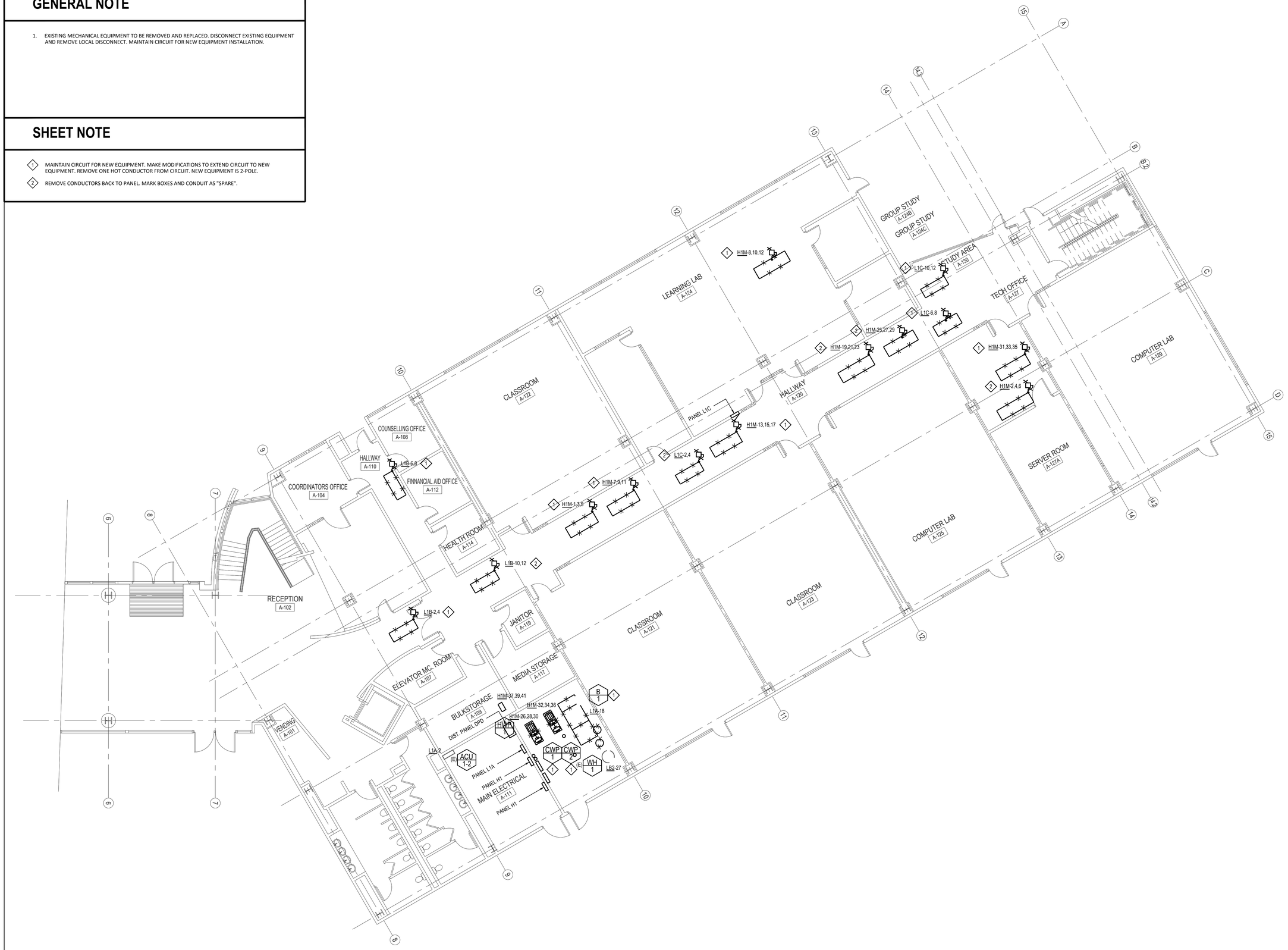
GENERAL NOTE

1. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED AND REPLACED. DISCONNECT EXISTING EQUIPMENT AND REMOVE LOCAL DISCONNECT. MAINTAIN CIRCUIT FOR NEW EQUIPMENT INSTALLATION.

SHEET NOTE

1. MAINTAIN CIRCUIT FOR NEW EQUIPMENT. MAKE MODIFICATIONS TO EXTEND CIRCUIT TO NEW EQUIPMENT. REMOVE ONE HOT CONDUCTOR FROM CIRCUIT. NEW EQUIPMENT IS 2-POLE.
2. REMOVE CONDUCTORS BACK TO PANEL. MARK BOXES AND CONDUIT AS "SPARE".



	ISSUES

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VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

FIRST FLOOR EAST
ELECTRICAL
DEMOLITION PLAN

Date: 12/29/2016
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GENERAL NOTE

1. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED AND REPLACED. DISCONNECT EXISTING EQUIPMENT AND REMOVE LOCAL DISCONNECT. MAINTAIN CIRCUIT FOR NEW EQUIPMENT INSTALLATION.

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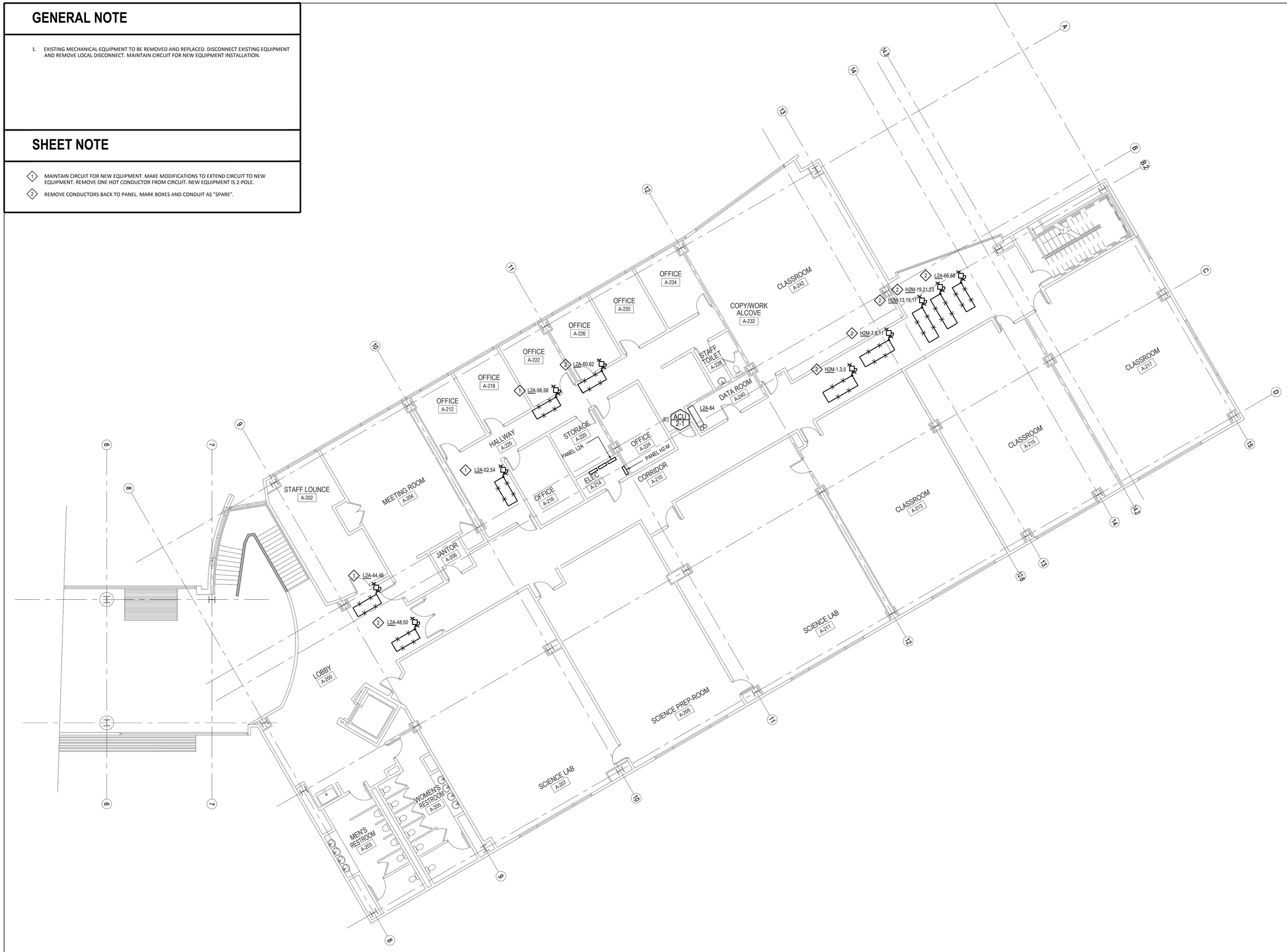
2. REMOVE CONDUCTORS BACK TO PANEL. MARK BOXES AND CONDUIT AS "SPARE".



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VALLEJO CENTER
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SECOND FLOOR
ELECTRICAL
DEMOLITION PLAN

Date: 12/29/2016
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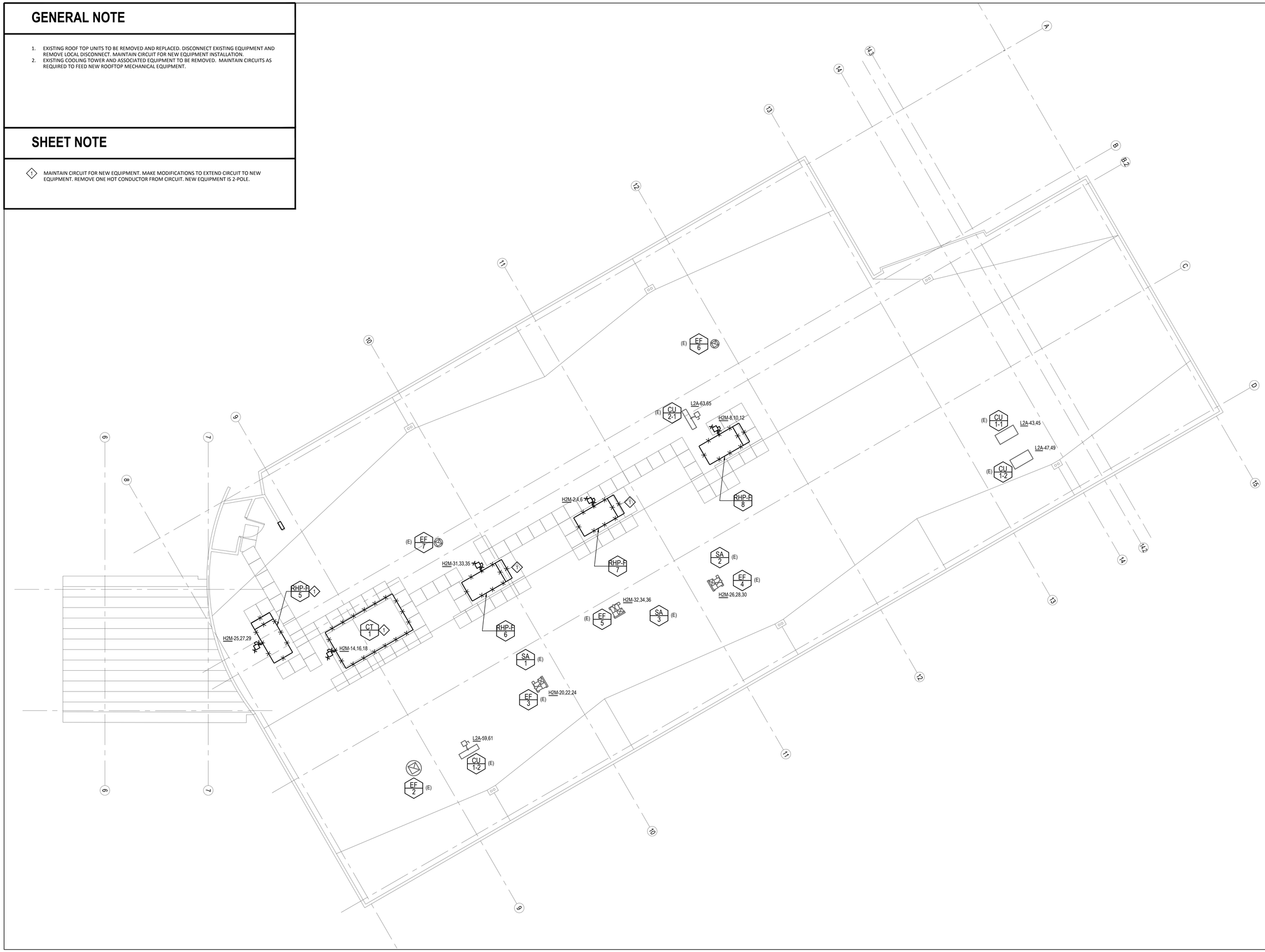
GENERAL NOTE

1. EXISTING ROOF TOP UNITS TO BE REMOVED AND REPLACED. DISCONNECT EXISTING EQUIPMENT AND REMOVE LOCAL DISCONNECT. MAINTAIN CIRCUIT FOR NEW EQUIPMENT INSTALLATION.
2. EXISTING COOLING TOWER AND ASSOCIATED EQUIPMENT TO BE REMOVED. MAINTAIN CIRCUITS AS REQUIRED TO FEED NEW ROOFTOP MECHANICAL EQUIPMENT.

SHEET NOTE

1. MAINTAIN CIRCUIT FOR NEW EQUIPMENT. MAKE MODIFICATIONS TO EXTEND CIRCUIT TO NEW EQUIPMENT. REMOVE ONE HOT CONDUCTOR FROM CIRCUIT. NEW EQUIPMENT IS 2-POLE.



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MECHANICAL EQUIPMENT REPLACEMENT

ROOF EAST
ELECTRICAL
DEMOLITION PLAN

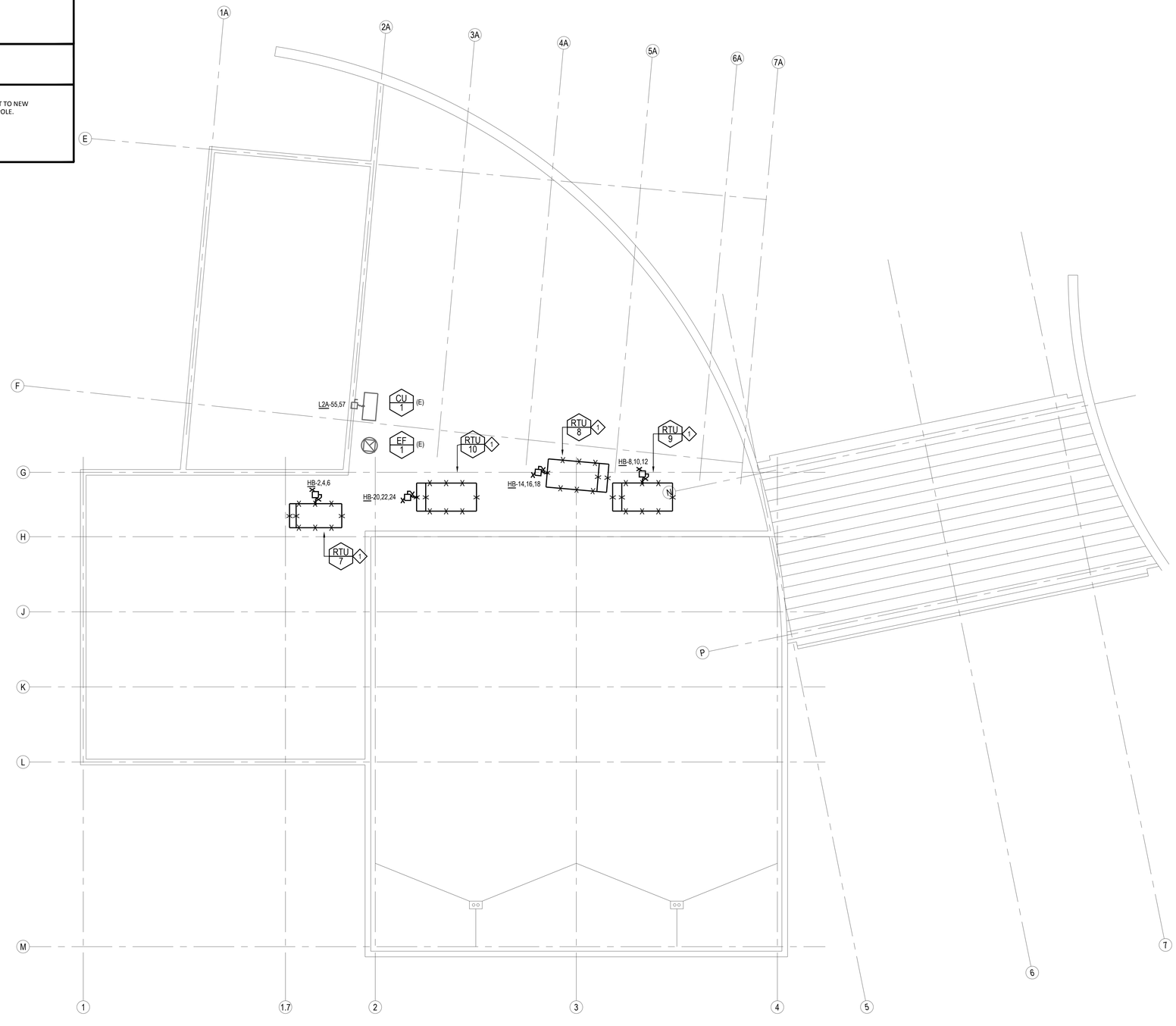
Date:	12/29/2016
Scale:	1/8"=1'-0"
Drawn:	-
Job:	16SCC01
Sheet	E1.13
Of	Sheets

GENERAL NOTE

1. EXISTING ROOF TOP UNITS TO BE REMOVED AND REPLACED. DISCONNECT EXISTING EQUIPMENT AND REMOVE LOCAL DISCONNECT. MAINTAIN CIRCUIT FOR NEW EQUIPMENT INSTALLATION.

SHEET NOTE

1 MAINTAIN CIRCUIT FOR NEW EQUIPMENT. MAKE MODIFICATIONS TO EXTEND CIRCUIT TO NEW EQUIPMENT. REMOVE ONE HOT CONDUCTOR FROM CIRCUIT. NEW EQUIPMENT IS 2-POLE.



	ISSUES

EDesignC Incorporated

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SAN FRANCISCO, CA
94104
(415) 963-4303

212 9TH STREET,
SUITE 203
OAKLAND, CA 94612

Seal & Signature:

SOLANO COMMUNITY COLLEGE DISTRICT
VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

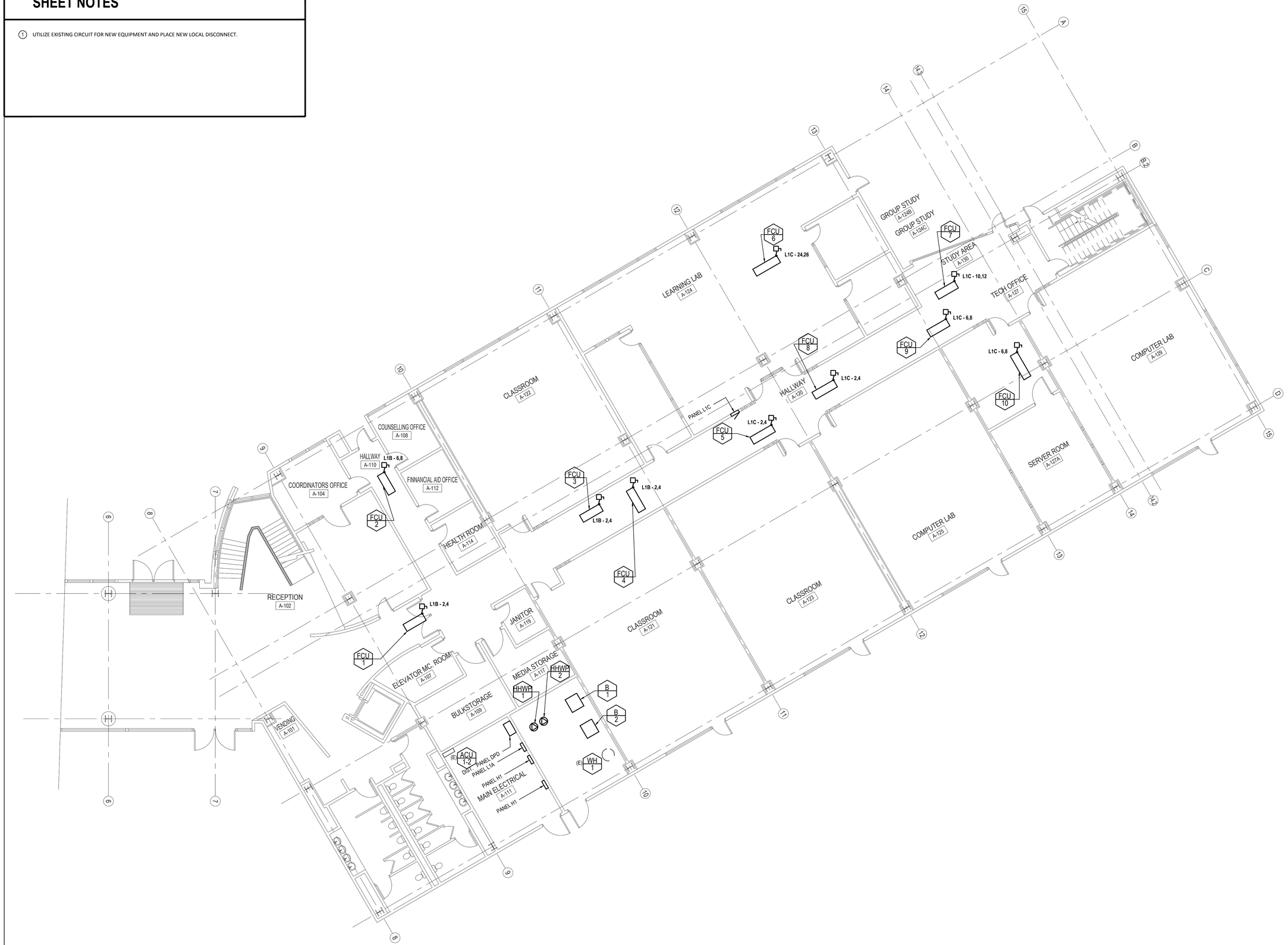
ROOF WEST
ELECTRICAL
DEMOLITION PLAN

Date: 12/29/2016
Scale: 1/8"=1'-0"
Drawn: -
Job: 16SCC01

Sheet
E1.14
Of . Sheets

SHEET NOTES

1. UTILIZE EXISTING CIRCUIT FOR NEW EQUIPMENT AND PLACE NEW LOCAL DISCONNECT.



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REGISTERED PROFESSIONAL ENGINEER
STEPHEN HOWARTH
No. E18568
EXP: 12-31-16
ELECTRICAL
STATE OF CALIFORNIA

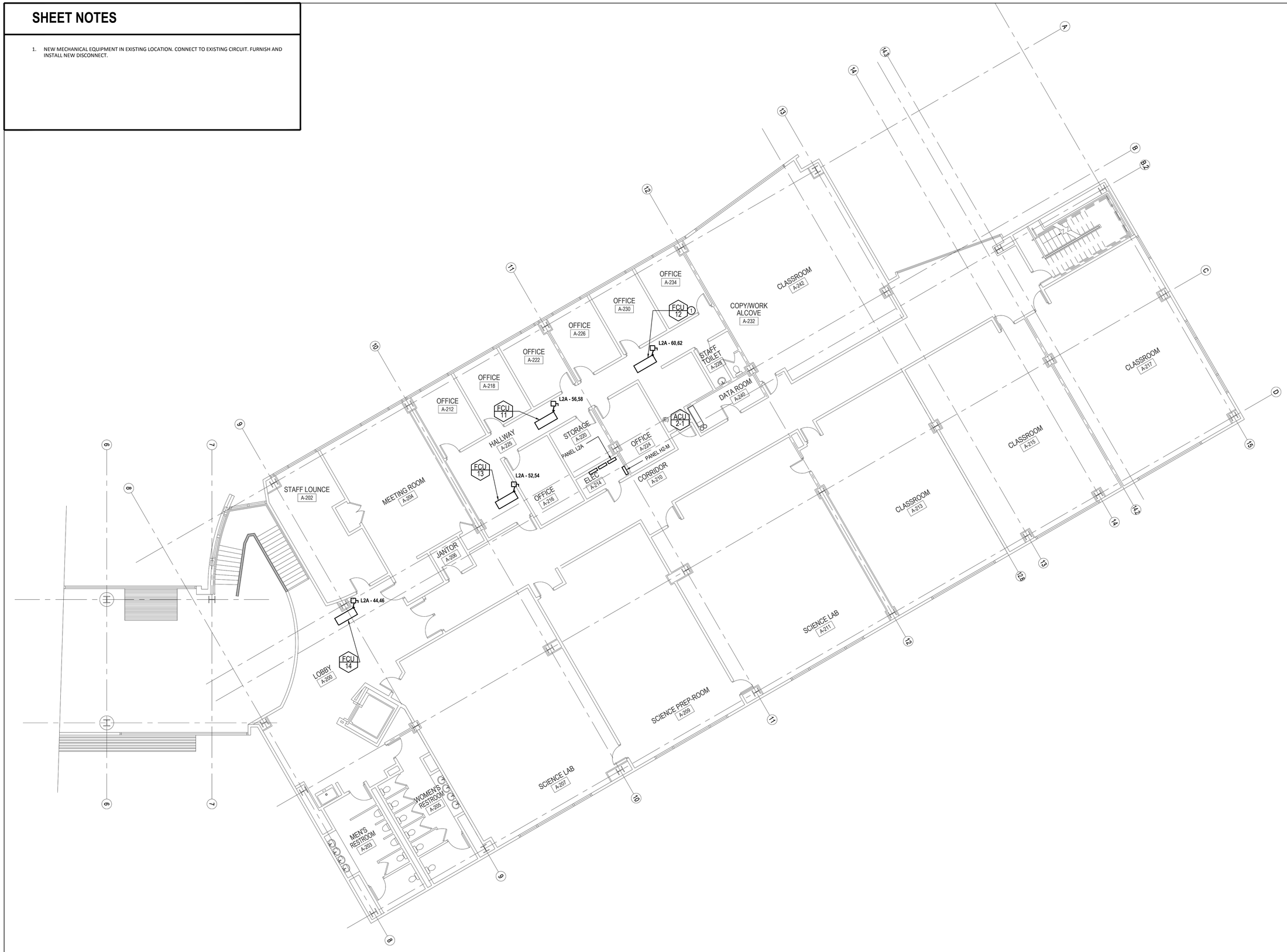
SOLANO COMMUNITY COLLEGE DISTRICT
VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

FIRST FLOOR EAST
ELECTRICAL PLAN

Date:	12/29/2016
Scale:	1/8"=1'-0"
Drawn:	-
Job:	16SCC01
Sheet	E2.10
Of	Sheets

SHEET NOTES

1. NEW MECHANICAL EQUIPMENT IN EXISTING LOCATION. CONNECT TO EXISTING CIRCUIT. FURNISH AND INSTALL NEW DISCONNECT.



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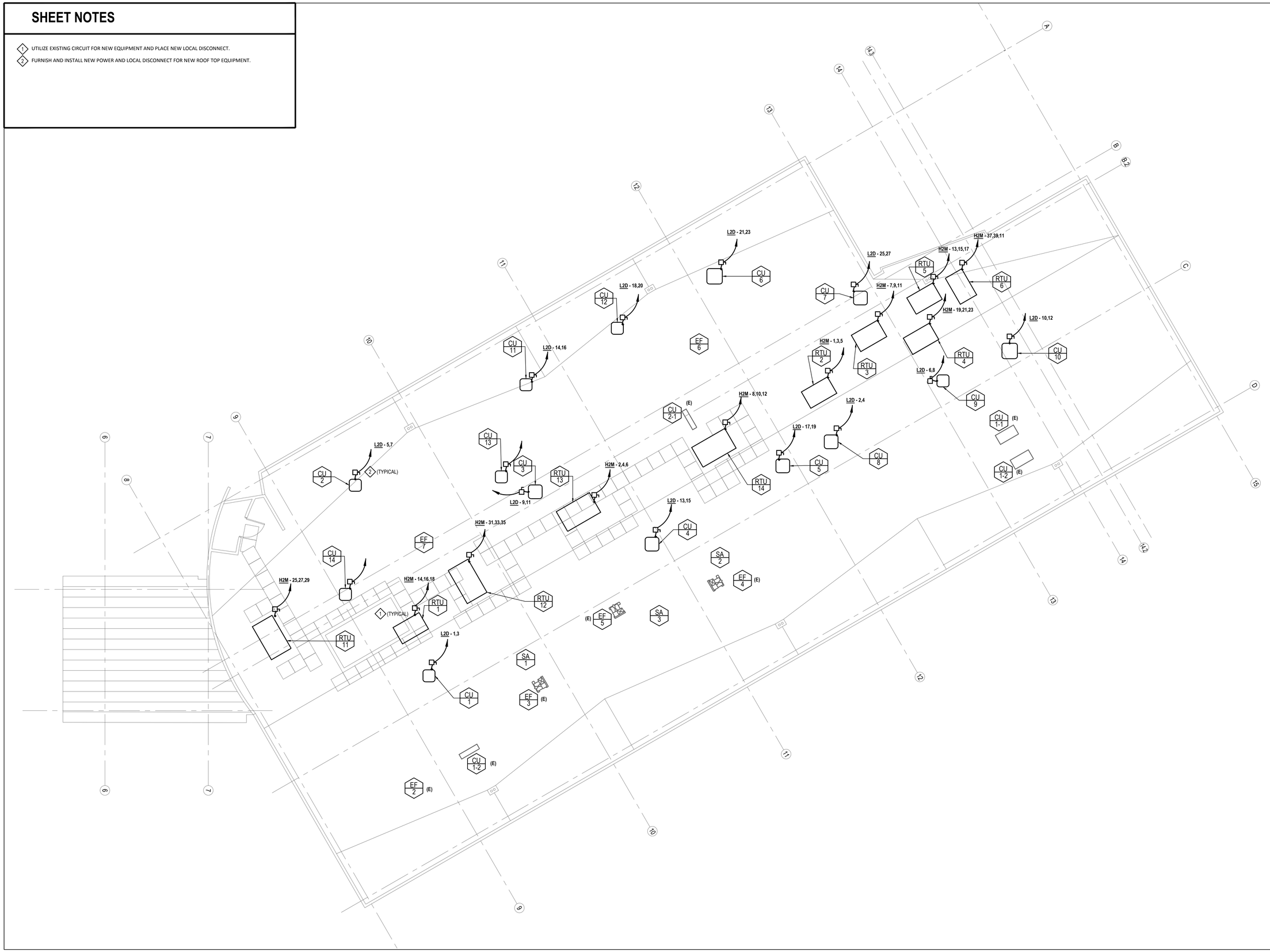
SOLANO COMMUNITY COLLEGE DISTRICT
VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

SECOND FLOOR
ELECTRICAL PLAN

Date:	12/29/2016
Scale:	1/8"=1'-0"
Drawn:	_
Job:	16SCC01
Sheet	E2.12
Of	Sheets

SHEET NOTES

1. UTILIZE EXISTING CIRCUIT FOR NEW EQUIPMENT AND PLACE NEW LOCAL DISCONNECT.
2. FURNISH AND INSTALL NEW POWER AND LOCAL DISCONNECT FOR NEW ROOF TOP EQUIPMENT.



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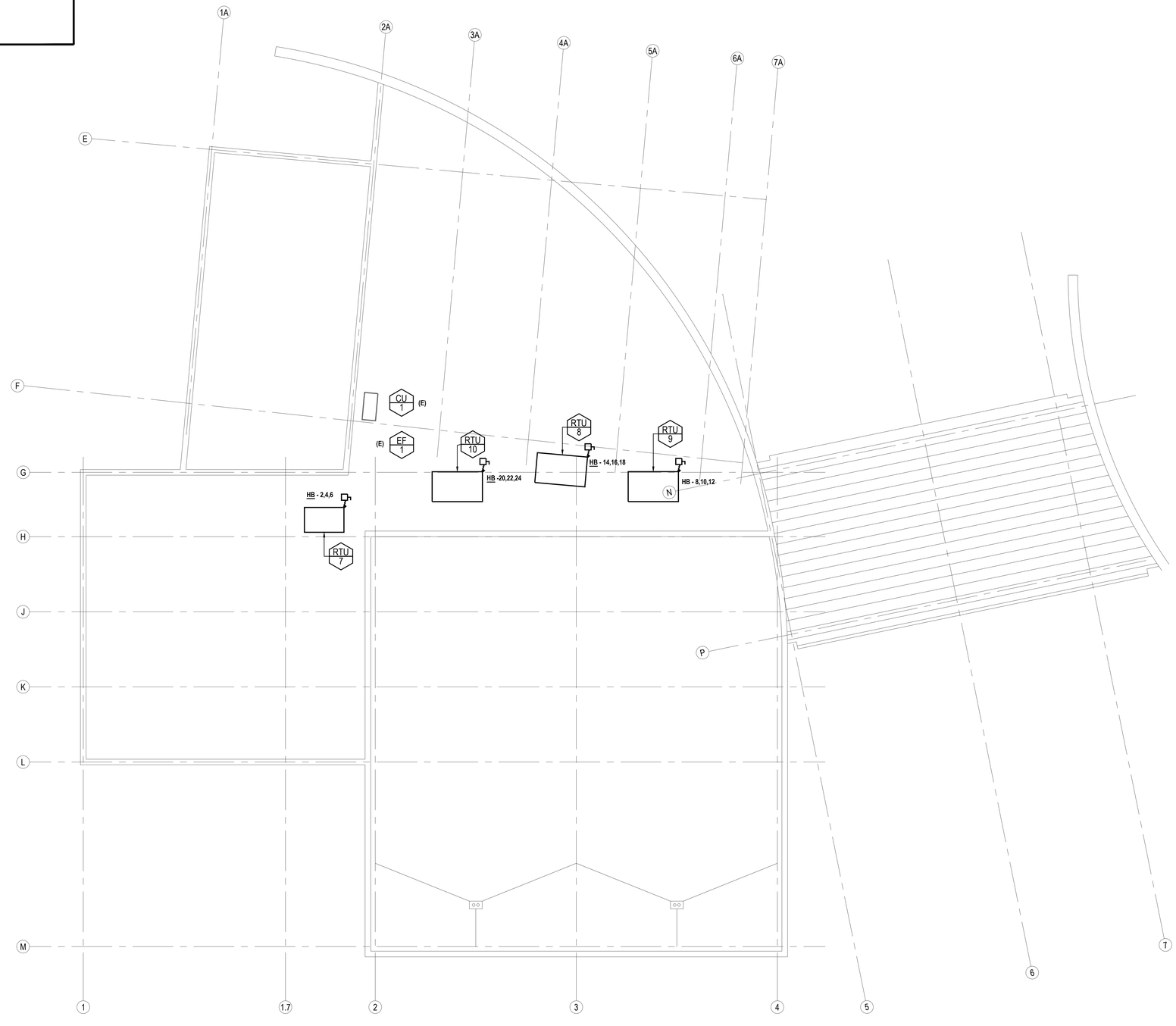
VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

ROOF EAST
ELECTRICAL PLAN

Date:	12/29/2016
Scale:	1/8"=1'-0"
Drawn:	-
Job:	16SCC01
Sheet	E2.13
Of	Sheets

GENERAL NOTES

1. UTILIZE EXISTING CIRCUIT FOR NEW EQUIPMENT AND PLACE NEW LOCAL DISCONNECT.



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VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

ROOF WEST
ELECTRICAL PLAN

Date: 12/29/2016
Scale: 1/8"=1'-0"
Drawn: -
Job: 16SCC01

Sheet
E2.14
Of . Sheets

PANEL: L1A PHASE 3 VOLTAGE 120/208 MCB 100A
LOCATION: MAIN ELEC RM WIRE 4 AIC MLO
FED FROM: B-DPB

CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD		LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	G	20	1	VENDING MACHINE	1000	A	240	ACU 1-1 & ACU 1-2	15	1	M	EXIST	2
3	EXIST	G	20	1	VENDING MACHINE	1000	B	500		20	1	G	EXIST	4
5	EXIST	G	20	1	VENDING MACHINE	1000	C	500	PRJTR & PRJTR LIFT	20	1	G	EXIST	6
7	EXIST	G	20	1	ELEC AUX POWER	540	A	900	RCPT-A-123	20	1	G	EXIST	8
9	EXIST	G	20	1	TELEVISION	800	B	900	RCPT-A-123	20	1	G	EXIST	10
11	EXIST	G	20	1	RCPT-RESTRM/CONV	900	C	540	RCPT-A-123	20	1	G	EXIST	12
13	EXIST	G	20	1	RCPT-ELEC/MECH, ROOM	900	A	540	CP-1	20	1	G	EXIST	14
15	EXIST	G	20	1	RCPT-A-117	720	B	500	WH-1	20	1	G	EXIST	16
17	EXIST	G	20	1	RCPT-A-117	540	C	600	BOILER	20	1	G	EXIST	18
19	EXIST	G	20	1	RCPT-A-121	900	A	300	FSD	20	1	G	EXIST	20
21	EXIST	G	20	1	RCPT-A-122	900	B	300	FSD	20	1	G	EXIST	22
23	EXIST	G	20	1	RCPT-A-123	720	C	300	FSD	20	1	G	EXIST	24
25	EXIST		20	1			A	800	TAMPER SWITCHES	20	1	G	EXIST	26
27	EXIST	G	20	1	PRJTR & PRJTR LIFT	500	B	0	SPARE	20	1		EXIST	28
29	EXIST	G	20	1	EXTERIOR	500	C	0	SPARE	20	1		EXIST	30
31	EXIST	G	20	1	PHONE	500	A	0	SPARE	20	1		EXIST	32
33	EXIST	G	20	1	TICKET MACHINE	500	B	0	SPARE	20	1		EXIST	34
35	EXIST		20	1	SPARE	0	C	0	SPARE	20	1		EXIST	36
37	EXIST	G	20	1	FACP	500	A	0	SPARE	20	1		EXIST	38
39	EXIST		20	1	SPARE	0	B	0	SPARE	20	1		EXIST	40
41	EXIST		20	1	SPARE	0	C	0	SPARE	20	1		EXIST	42

PHASE A	7120	SUBTOTAL	DEMAND CALCULATION	
PHASE B	6620	0	CONTINUOUS LOAD (C) 125%	0
PHASE C	5600	0	DEDICATED LOAD (D) 100%	0
		19100	GENERAL LOAD (G) 100 1ST 10KVA, 50% REST	23875
NOTES:			LARGEST MOTOR 25%	0
		240	MOTOR LOAD (M) 100%	300
			TOTAL DEMAND	24175
			AMPS @ 120/208	67

PANEL: L1B PHASE 3 VOLTAGE 120/208 MCB
LOCATION: CORRIDOR WIRE 4 AIC MLO 100A
FED FROM: B-DPB

CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD		LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	G	20	1	RCPT A-100	720	A	1155	FCU - 1,3	20	2	M	1	2
3	EXIST	G	20	1	RCPT A-100	720	B	1155				M		4
5	EXIST	G	20	1	RCPT A-100	720	C	1155	FCU - 2	15	2	M	2	6
7	EXIST	G	20	1	AUTO DOOR	500	A	1155				M		8
9	EXIST	G	20	1	COILING GRILLE	500	B	1155	HP-A/1-3	15	2	M	EXIST	10
11	EXIST	G	20	1	RCPT A-102, 104	900	C	1155				M	EXIST	12
13	EXIST	G	20	1	DED RCPT	180	A	0	SPARE	20	1		EXIST	14
15	EXIST	G	20	1	DED RCPT	180	B	0	SPARE	20	1		EXIST	16
17	EXIST	G	20	1	RCPT A-102, 104	720	C	0	SPARE	20	1		EXIST	18
19	EXIST	G	20	1	RCPT A-108, 112, 114	900	A	0	SPARE	20	1		EXIST	20
21	EXIST	G	20	1	RCPT A-108, 112, 114	720	B	0	SPARE	20	1		EXIST	22
23	EXIST	G	20	1	RCPT A-108, 112, 114	720	C	0	SPARE	20	1		EXIST	24
25	EXIST		20	1	SPARE	0	A	0	SPARE	20	1		EXIST	26
27	EXIST		20	1	SPARE	0	B	0	SPARE	20	1		EXIST	28
29	EXIST		20	1	SPARE	0	C	0	SPARE	20	1		EXIST	30
31	EXIST		20	1	SPARE	0	A	0	SPARE	20	1		EXIST	32
33	EXIST		20	1	SPARE	0	B	0	SPARE	20	1		EXIST	34
35	EXIST		20	1	SPARE	0	C	0	SPARE	20	1		EXIST	36
37	EXIST		20	1	SPARE	0	A	0	SPARE	20	1		EXIST	38
39	EXIST		20	1	SPARE	0	B	0	SPARE	20	1		EXIST	40
41	EXIST		20	1	SPARE	0	C	0	SPARE	20	1		EXIST	42

PHASE A	4610	SUBTOTAL	DEMAND CALCULATION	
PHASE B	4430	0	CONTINUOUS LOAD (C) 125%	0
PHASE C	5370	0	DEDICATED LOAD (D) 100%	0
		7480	GENERAL LOAD (G) 100 1ST 10KVA, 50% REST	9350
NOTES:			LARGEST MOTOR 25%	0
1 - REPLACE (E) BREAKER WITH NEW		6930	MOTOR LOAD (M) 100%	8662.5
2 - USE (E) BREAKER			TOTAL DEMAND	18013
			AMPS @ 120/208	50

PANEL: L1C PHASE 3 VOLTAGE 120/208 MCB
LOCATION: CORRIDOR WIRE 4 AIC MLO 100A
FED FROM: B-DPB

CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD		LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	G	20	1	RCPT A-122	540	A	1155	FCU - 5,8	20	2	M	1	2
3	EXIST	G	20	1	RCPT A-122	720	B	1155	"			M		4
5	EXIST	G	20	1	RCPT A-122	540	C	1779	FCU - 9,10	20	2	M	1	6
7	EXIST	G	20	1	RCPT A-121	360	A	1779	"			M		8
9	EXIST	G	20	1	RCPT A-121	360	B	1155	FCU - 7	15	2	M	2	10
11	EXIST	G	20	1	RCPT A-121	360	C	1155	"			M		12
13	EXIST	G	20	1	RCPT A-121	360	A	540	RCPT A-124, 130	20	1	G	EXIST	14
15	EXIST	G	20	1	RCPT A-121	360	B	360	RCPT A-124, 130	20	1	G	EXIST	16
17	EXIST	G	20	1	RCPT A-121	360	C	500	PRJTR & PRJTR LIFT	20	1	G	EXIST	18
19	EXIST	G	20	1	RCPT A-121	360	A	0	SPARE	20	1		EXIST	20
21	EXIST	G	20	1	RCPT A-121	360	B	540	RCPT A-122	20	1	G	EXIST	22
23	EXIST	G	20	1	RCPT A-121	360	C	0	FCU - 6	20	2		1	24
25	EXIST	G	20	1	RCPT A-121	360	A	0	---					26
27	EXIST	G	20	1	RCPT A-121	360	B	0	SPARE	20	1		EXIST	28
29	EXIST	G	20	1	RCPT A-121	360	C	0	SPARE	20	1		EXIST	30
31	EXIST		20	1	SPARE	0	A	0	SPARE	20	1		EXIST	32
33	EXIST		20	1	SPARE	0	B	0	SPARE	20	1		EXIST	34
35	EXIST		20	1	SPARE	0	C	0	SPARE	20	1		EXIST	36
37	EXIST		20	1	SPARE	0	A	0	SPARE	20	1		EXIST	38
39	EXIST		20	1	SPARE	0	B	0	SPARE	20	1		EXIST	40
41	EXIST		20	1	SPARE	0	C	0	SPARE	20	1		EXIST	42

PHASE A	5454	SUBTOTAL	DEMAND CALCULATION	
PHASE B	5370	0	CONTINUOUS LOAD (C) 125%	0
PHASE C	5414	0	DEDICATED LOAD (D) 100%	0
		8060	GENERAL LOAD (G) 100 1ST 10KVA, 50% REST	4035
NOTES:			LARGEST MOTOR 25%	0
1 - REPLACE (E) BREAKER WITH NEW		8178	MOTOR LOAD (M) 100%	10222.5
2 - USE (E) BREAKER			TOTAL DEMAND	14258
			AMPS @ 120/208	40

PANEL: HB PHASE 3 VOLTAGE 277/480 MCB
LOCATION: BLDG 'B' ELEC RM WIRE 4 AIC MLO 225A
FED FROM: MSB

CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD		LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	C	20	1	LIGHTS 1ST FLOOR	2117	A	2173	RTU - 7	15	3	M	2	2
3	EXIST	C	20	1	LIGHTS 1ST FLOOR	2015	B	2173	"			M		4
5	EXIST	C	20	1	LIGHTS 1ST FLOOR	3022	C	2173	"			M		6
7	EXIST	C	20	1	LIGHTS 1ST FLOOR	1426	A	4573	RTU - 9	25	3	M	2	8
9	EXIST	C	20	1	LIGHTS 1ST FLOOR	3599	B	4573	"			M		10
11	EXIST	C	20	1	SITE LIGHTING	4156	C	4573	"			M		12
13	EXIST	C	20	1	SITE LIGHTING	4375	A	3880	RTU - 8	25	3	M	1	14
15	EXIST	C	20	1	SITE LIGHTING	3937	B	3880	"			M		16
17	EXIST	C	20	1	SITE LIGHTING	2845	C	3880	"			M		18
19	EXIST	C	20	1	SITE LIGHTING	831	A	4573	RTU - 10	25	3	M	2	20
21	EXIST		20	1	SPARE		B	4573	"			M		22
23	EXIST		20	1	SPARE		C	4573	"			M		24
25	EXIST		20	1	SPARE		A	0	SPARE	20	1		EXIST	26
27	EXIST		20	1	SPARE		B	0	SPARE	20	1		EXIST	28
29	EXIST		20	1	SPARE		C	0	SPARE	20	1		EXIST	30
31	EXIST		20	1	SPARE		A	0	SPARE	20	1		EXIST	32
33	EXIST		20	1	SPARE		B	0	SPARE	20	1		EXIST	34
35	EXIST		20	1	SPARE		C	0	SPARE	20	1		EXIST	36
37	EXIST		20	1	SPARE		A	11458	B-XFMR TB-PRI	125	3	M	EXIST	38
39	EXIST		20	1	SPARE		B	11458	"				EXIST	40
41	EXIST		20	1	LCD-HB		C	11458	"				EXIST	42

PHASE A	35406	SUBTOTAL	DEMAND CALCULATION	
PHASE B	36208	28323	CONTINUOUS LOAD (C) 125%	35403.75
PHASE C	36680	0	DEDICATED LOAD (D) 100%	0
		0	GENERAL LOAD (G) 100 1ST 10KVA, 50% REST	0
NOTES:			LARGEST MOTOR 25%	0
1 - REPLACE (E) BREAKER WITH NEW		57055	MOTOR LOAD (M) 100%	71318.75
2 - USE (E) BREAKER			TOTAL DEMAND	106723
			AMPS @ 277/480	128367

PANEL: LB-1 PHASE 3 VOLTAGE 120/208 MCB
LOCATION: BLDG 'B' ELEC RM WIRE 4 AIC MLO 225A
FED FROM: B-XFRM TB-SEC

CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD		LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	G	20	1	RCPT - RESTROOM	1000	A	500	POWERED FURNITURE	20	1	G	EXIST	2
3	EXIST		20	1	SPARE	0	B	500	POWERED FURNITURE	20	1	G	EXIST	4
5	EXIST	G	20	1	DED RCPT- B-102	180	C	500	POWERED FURNITURE	20	1	G	EXIST	6
7	EXIST	G	30	1	DED RCPT- B-102	500	A	500	POWERED FURNITURE	20	1	G	EXIST	8
9	EXIST	G	30	1	DED RCPT- B-102	500	B	500	POWERED FURNITURE	20	1	G	EXIST	10
11	EXIST	G	20	1	DED RCPT- B-106	500	C	500	POWERED FURNITURE	20	1	G	EXIST	12
13	EXIST	G	20	1	RCPT- B-106	720	A	500	POWERED FURNITURE	20	1	G	EXIST	14
15	EXIST	G	20	1	RCPT- B-106	540	B	500	POWERED FURNITURE	20	1	G	EXIST	16
17	EXIST	G	20	1	RCPT- B-106	540	C	500	POWERED FURNITURE	20	1	G	EXIST	18
19	EXIST	G	20	1	POWERED FURNITURE	500	A	500	POWERED FURNITURE	20	1	G	EXIST	20
21	EXIST	G	20	1	POWERED FURNITURE	500	B	500	POWERED FURNITURE	20	1	G	EXIST	22
23	EXIST	G	20	1	POWERED FURNITURE	500	C	500	POWERED FURNITURE	20	1	G	EXIST	24
25	EXIST	G	20	1	POWERED FURNITURE	500	A	500	POWERED FURNITURE	20	1	G	EXIST	26
27	EXIST	G	20	1	POWERED FURNITURE	500	B	500	POWERED FURNITURE	20	1	G	EXIST	28
29	EXIST	G	20	1	POWERED FURNITURE	500	C	500	POWERED FURNITURE	20	1	G	EXIST	30
31	EXIST	G	20	1	PROJECTOR SCREEN	500	A	500	FAEP BLDG B	20	1	G	EXIST	32
33	EXIST	G	20	1	PROJTR SCREEN, LIFT	500	B	1350	TRACK LIGHTING CORR	20	1	C	EXIST	34
35	EXIST	M	20	1	ACU 1-1	200	C	0	SPARE	20	1		EXIST	36
37	EXIST		20	1	SPARE	0	A	7853	B-LB2 (PANEL LB-2)	100	3	C	EXIST	38
39	EXIST		20	1	SPARE	0	B	7853	"				EXIST	40
41	EXIST		20	1	SPARE	0	C	7853	"				EXIST	42

PHASE A	14573	SUBTOTAL	DEMAND CALCULATION	
PHASE B	14243	9203	CONTINUOUS LOAD (C) 125%	11503.75
PHASE C	12773	0	DEDICATED LOAD (D) 100%	0
		16480	GENERAL LOAD (G) 100 1ST 10KVA, 50% REST	8245
NOTES:		27	LARGEST MOTOR 25%	6.75
		200	MOTOR LOAD (M) 100%	200
			TOTAL DEMAND	19956
			AMPS @ 120/208	55

PANEL: LB-2 PHASE 3 VOLTAGE 120/208 MCB
LOCATION: BLDG 'B' ART STORAGE WIRE 4 AIC MLO 100A
FED FROM: B-LB-1

CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD		LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	G	20	1	RCPT- B-103	540	A	500	AUTO-DOOR	20	1	G	EXIST	2
3	EXIST	G	20	1	RCPT- B-103	540	B	720	RCPT- B-101	20	1	G	EXIST	4
5	EXIST	G	20	1	RCPT- B-103	720	C	720	RCPT- B-102	20	1	G	EXIST	6
7	EXIST	G	20	1	RCPT- B-103	360	A	1080	RCPT- B-103	20	1	G	EXIST	8
9	EXIST	G	20	1	RCPT- B-103	360	B	900	RCPT- B-104	20	1	G	EXIST	10
11	EXIST	G	20	1	DED RCPT- B-103	540	C	900	RCPT- B-105	20	1	G	EXIST	12
13	EXIST	G	20	1	DED RCPT- B-103	540	A	500	PRJTR SCREEN	20	1	G	EXIST	14
15	EXIST	G	20	1	DED RCPT- B-103	540	B	500	PRJTR & PRJTR LIFT	20	1	G	EXIST	16
17	EXIST	G	20	1	DED RCPT- B-103	540	C	500	SECTIONAL DOOR	20	1	G	EXIST	18
19	EXIST	G	20	1	DED RCPT- B-103	540	A	562	EF-1	20	1	G	EXIST	20
21	EXIST	G	20	1	PROJECTION SCREEN	500	B	562	"	20	1	G	EXIST	22
23	EXIST	G	20	1	PROJECTOR & PROJ LIFT	500	C	800	CU 1-1	20	1	M	EXIST	24
25	EXIST	G	20	1	ROOF RCPT	360	A	800	CU 1-1	20	1	M	EXIST	26
27	EXIST	G	20	1	WINTER HEATER	500	B	0	DISPLAY CASE	20	1	C	EXIST	28
29	EXIST		20	1	SPARE	0	C	0	DISPLAY CASE	20	1	C	EXIST	30
31	EXIST		20	1	SPARE	0	A	0	SPARE	20	1		EXIST	32
33	EXIST		20	1	SPARE	0	B	800	TRACK LIGHTING	20	1	C	EXIST	34
35	EXIST		20	1	SPARE	0	C	800	TRACK LIGHTING	20	1	C	EXIST	36
37	EXIST		20	1	SPARE	0	A	0	WALL LIGHTS	20	1	C	EXIST	38
39	EXIST		20	1	SPARE	0	B	0	WALL LIGHTS	20	1	C	EXIST	40
41	EXIST		20	1	SPARE	0	C	0	SPARE	20	1		EXIST	42

PHASE A	5782	SUBTOTAL	DEMAND CALCULATION	
PHASE B	5922	1600	CONTINUOUS LOAD (C) 125%	2000
PHASE C	6020	0	DEDICATED LOAD (D) 100%	0
		14524	GENERAL LOAD (G) 100 1ST 10KVA, 50% REST	18155
NOTES:		5	LARGEST MOTOR 25%	1.25
		1600	MOTOR LOAD (M) 100%	2000
			TOTAL DEMAND	22156
			AMPS @ 120/208	61

PANEL: H1 PHASE 3 VOLTAGE 277/480 MCB
LOCATION: MAIN ELEC RM WIRE 4 AIC MLO 100A
FED FROM: MSB

CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD		LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	C	20	1	LIGHTS 1ST FLOOR	3196	A	4185	LIGHTS 2ND FLOOR	20	1	C	EXIST	2
3	EXIST	C	20	1	LIGHTS 1ST FLOOR	3875	B	4185	LIGHTS 2ND FLOOR	20	1	C	EXIST	4
5	EXIST	C	20	1	LIGHTS 1ST FLOOR	3824	C	3924	LIGHTS 2ND FLOOR	20	1	C	EXIST	6
7	EXIST	C	20	1	LIGHTS 1ST FLOOR	2558	A	1987	LIGHTS 2ND FLOOR	20	1	C	EXIST	8
9	EXIST	C	20	1	LIGHTS 1ST FLOOR	4003	B	3031	LIGHTS 2ND FLOOR	20	1	C	EXIST	10
11	EXIST		20	1	SPARE	0	C	0	SPARE	20	1		EXIST	12
13	EXIST		20	1	SPARE	0	A	0	SPARE	20	1		EXIST	14
15	EXIST		20	1	SPARE	0	B	0	SPARE	20	1		EXIST	16
17	EXIST		20	1	SPARE	0	C	0	SPARE	20	1		EXIST	18
19	EXIST		20	1	SPARE	0	A	0	SPARE	20	1		EXIST	20
21	EXIST		20	1	SPARE	0	B	0	SPARE	20	1		EXIST	22
23	EXIST		20	1	SPARE	0	C	0	SPARE	20	1		EXIST	24
25	EXIST		20	1	SPARE	0	A	0	SPARE	20	1		EXIST	26
27	EXIST		20	1	SPARE	0	B	0	SPARE	20	1		EXIST	28
29	EXIST		20	1	SPARE	0	C	0	SPARE	20	1		EXIST	30
31	EXIST		20	1	SPARE	0	A	0	SPARE	20	1		EXIST	32
33	EXIST		20	1	SPARE	0	B	0	SPARE	20	1		EXIST	34
35	EXIST		20	1	SPARE	0	C	0	SPARE	20	1		EXIST	36
37	EXIST		20	1	SPARE	0	A	0	SPARE	20	1		EXIST	38
39	EXIST		20	1	SPARE	0	B	0	SPARE	20	1		EXIST	40
41	EXIST		20	1	SPARE	0	C	0	SPARE	20	1		EXIST	42

PHASE A	11926	SUBTOTAL	DEMAND CALCULATION	
PHASE B	15094	34768	CONTINUOUS LOAD (C) 125%	43460
PHASE C	7748	0	DEDICATED LOAD (D) 100%	0
		0	GENERAL LOAD (G) 100 1ST 10KVA, 50% REST	0
NOTES:			LARGEST MOTOR 25%	0
		0	MOTOR LOAD (M) 100%	0
			TOTAL DEMAND	43460
			AMPS @ 277/480	52274

PANEL: H1-M PHASE 3 VOLTAGE 277/480 MCB
LOCATION: MAIN ELEC RM WIRE 4 AIC MLO 225A
FED FROM: MSB

CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD		LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	M	15	3	HP-E/1-4	2383	A	4573	HP-H/1-13	25	3	M	EXIST	2
3	EXIST	M			"	2383	B	4573	"			M	EXIST	4
5	EXIST	M			"	2383	C	4573	"			M	EXIST	6
7	EXIST	M	15	3	HP-E/1-5	2383	A	4573	HP-I/1-14	25	3	M	EXIST	8
9	EXIST	M			"	2383	B	4573	"			M	EXIST	10
11	EXIST	M			"	2383	C	4573	"			M	EXIST	12
13	EXIST	M	15	3	HP-E/1-7	2383	A	2744	CRAC 1-1	15	3	M	EXIST	14
15	EXIST	M			"	2383	B	2744	"			M	EXIST	16
17	EXIST	M			"	2383	C	2744	"			M	EXIST	18
19	EXIST	M	25	3	HP-H/1-8	4573	A	2744	CRAC 1-2	15	3	M	EXIST	20
21	EXIST	M			"	4573	B	2744	"			M	EXIST	22
23	EXIST	M			"	4573	C	2744	"			M	EXIST	24
25	EXIST	M	20	3	HP-G/1-9	4379	A	5820	CWP-1	30	3	M	EXIST	26
27	EXIST	M			"	4379	B	5820	"			M	EXIST	28
29	EXIST	M			"	4379	C	5820	"			M	EXIST	30
31	EXIST	M	20	3	HP-G/1-12	4379	A	5820	CWP-2	30	3	M	EXIST	32
33	EXIST	M			"	4379	B	5820	"			M	EXIST	34
35	EXIST	M			"	4379	C	5820	"			M	EXIST	36
37	EXIST	M	15	3	HWP-1	831	A	0	SPARE	20	1		EXIST	38
39	EXIST	M			"	831	B	0	SPARE	20	1		EXIST	40
41	EXIST	M			"	831	C	0	SPARE	20	1		EXIST	42

PHASE A	47585	SUBTOTAL	DEMAND CALCULATION	
PHASE B	47585	0	CONTINUOUS LOAD (C) 125%	0
PHASE C	47585	0	DEDICATED LOAD (D) 100%	0
		0	GENERAL LOAD (G) 100 1ST 10KVA, 50% REST	0
NOTES:			LARGEST MOTOR 25%	0
		142755	MOTOR LOAD (M) 100%	178443.75
			TOTAL DEMAND	178444
			AMPS @ 277/480	214634

PANEL: H2-M PHASE 3 VOLTAGE 277/480 MCB
LOCATION: 2ND FLR ELEC RM WIRE 4 AIC MLO 250A
FED FROM: MSB

CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD		LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	1	M	15	3	RTU - 2	3880	A	4434	RTU - 13	20	3	M	1	2
3		M			"	3880	B	4434	"			M		4
5		M			"	3880	C	4434	"			M		6
7	1	M	15	3	RTU - 3	3880	A	4434	RTU - 14	15	3	M	1	8
9		M			"	3880	B	4434	"			M		10
11		M			"	3880	C	4434	"			M		12
13	1	M	15	3	RTU - 5	3880	A	14383	RTU - 1	15	3	M	2	14
15		M			"	3880	B	14383	"			M		16
17		M			"	3880	C	14383	"			M		18
19	1	M	15	3	RTU - 4	3880	A	831	EF-3	15	3	M	EXIST	20
21		M			"	3880	B	831	"			M	EXIST	22
23		M			"	3880	C	831	"			M	EXIST	24
25	2	M	25	3	RTU - 11	4434	A	831	EF-4	15	3	M	EXIST	26
27		M			"	4434	B	831	"			M	EXIST	28
29		M			"	4434	C	831	"			M	EXIST	30
31	1	M	15	3	RTU - 12	4434	A	831	EF-5	15	3	M	EXIST	32
33		M			"	4434	B	831	"			M	EXIST	34
35		M			"	4434	C	831	"			M	EXIST	36
37	1		15	1	RTU - 6	0	A	0	SPARE	20	1		EXIST	38
39				1		0	B	0	SPARE	20	1		EXIST	40
41				1		0	C	0	SPARE	20	1		EXIST	42

PHASE A	50132	SUBTOTAL	DEMAND CALCULATION	
PHASE B	50132	0	CONTINUOUS LOAD (C) 125%	0
PHASE C	50132	0	DEDICATED LOAD (D) 100%	0
		0	GENERAL LOAD (G) 100 1ST 10KVA, 50% REST	0
NOTES:			LARGEST MOTOR 25%	0
		150396	MOTOR LOAD (M) 100%	187995
			TOTAL DEMAND	187995
			AMPS @ 277/480	226123

ISSUES

EDesignC Incorporated
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Seal & Signature:
REGISTERED PROFESSIONAL ENGINEER
STEPHEN HOWARTER
No. E18568
EXP. 12-31-16
ELECTRICAL
STATE OF CALIFORNIA

SOLANO COMMUNITY COLLEGE DISTRICT
VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

ELECTRICAL PANEL SCHEDULE

Date: 12/29/2016
Scale: 1/8"=1'-0"
Drawn: -
Job: 16SCC01
Sheet
E10.01
Of . Sheets

PANEL: L2D | PHASE 3 | VOLTAGE 120/208 | MCB 150A
LOCATION: | WIRE 4 | AIC | MLO
FED FROM:

CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD		LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1		M	20	2	CU - 1		A		CU - 8	30	2	M		2
3		M			----		B		----			M		4
5		M	20	2	CU - 2		C		CU - 9	20	2	M		6
7		M			----		A		----			M		8
9		M	25	2	CU - 3		B		CU - 10	40	2	M		10
11		M			----		C		----			M		12
13		M	30	2	CU - 4		A		CU - 11	20	2	M		14
15		M			----		B		----			M		16
17		M	30	2	CU - 5		C		CU - 12	20	2	M		18
19		M			----		A		----			M		20
21		M	50	2	CU - 6		B		CU - 13	20	2	M		22
23		M			----		C		----			M		24
25		M	25	2	CU - 7		A		CU - 14	20	2	M		26
27					----		B		----			M		28
29							C							30

PHASE A 0 | SUBTOTAL | DEMAND CALCULATION
PHASE B 0 | 0 | CONTINUOUS LOAD (C) 125% | 0
PHASE C 0 | 0 | DEDICATED LOAD (D) 100% | 0
0 | GENERAL LOAD (G) 100 1ST 10KVA, 50% REST | 0
NOTES: | LARGEST MOTOR 25% | 0
0 | MOTOR LOAD (M) 100% | 0
TOTAL DEMAND | 0
AMPS @ 120/208 | 0

PANEL: L2A CONT. | PHASE 3 | VOLTAGE 120/208 | MCB
LOCATION: 2ND FLR ELEC RM | WIRE 4 | AIC | MLO 300A
FED FROM: B-DPB

CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD		LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
85	EXIST	G	20	1	FACP	500	A		A-214 LIGHT	20	1	G	EXIST	86
87	EXIST	G	20	1	ROOF RCPT	720	B		SPARE	20	1	G	EXIST	88
89	EXIST	G	20	1	LOBBY/BATH	720	C		SPARE	20	1	G	EXIST	90
91	EXIST	G	20	1	SPARE		A		CTRL VOLTAGE MOTOR STARTER	20	1	G	EXIST	92
93	EXIST	G	20	1	ROOF GFI	360	B		SPARE	20	1		EXIST	94
95	EXIST		20	1	SPARE		C		SPARE	20	1		EXIST	96
97	EXIST		20	1	SPARE		A		SPARE	20	1		EXIST	98
99	EXIST		20	1	SPARE		B		SPARE	20	1		EXIST	100
101	EXIST		20	1	SPARE		C		SPARE	20	1		EXIST	102
103	EXIST				SPACE		A		SPACE				EXIST	104
105	EXIST				SPACE		B		SPACE				EXIST	106
107	EXIST				SPACE		C		SPACE				EXIST	108
109	EXIST				SPACE		A		SPACE				EXIST	110
111	EXIST				SPACE		B		SPACE				EXIST	112
113	EXIST				SPACE		C		SPACE				EXIST	114
115	EXIST				SPACE		A		SPACE				EXIST	116
117	EXIST				SPACE		B		SPACE				EXIST	118
119	EXIST				SPACE		C		SPACE				EXIST	120
121	EXIST				SPACE		A		SPACE				EXIST	122
123	EXIST				SPACE		B		SPACE				EXIST	124
125	EXIST				SPACE		C		SPACE				EXIST	126

PHASE A 500 | SUBTOTAL | DEMAND CALCULATION
PHASE B 1080 | 0 | CONTINUOUS LOAD (C) 125% | 0
PHASE C 720 | 0 | DEDICATED LOAD (D) 100% | 0
2300 | GENERAL LOAD (G) 100 1ST 10KVA, 50% REST | 2875
NOTES: | LARGEST MOTOR 25% | 0
* AMPS ADDED TO PANEL 'L2A' | 0 | MOTOR LOAD (M) 100% | 0
TOTAL DEMAND | 2875
AMPS @ 120/208 | 8

PANEL: L2B | PHASE 3 | VOLTAGE 120/208 | MCB
LOCATION: CORRIDOR | WIRE 4 | AIC | MLO 100A
FED FROM: B-DPB

CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD		LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	G	20	1	LAB BENCHES	800	A		SPARE				EXIST	2
3	EXIST	G	20	1	LAB BENCHES	800	B		SPARE				EXIST	4
5	EXIST	G	20	1	LAB BENCHES	800	C		SPARE				EXIST	6
7	EXIST	G	20	1	LAB BENCHES	800	A		SPARE				EXIST	8
9	EXIST	G	20	1	LAB BENCHES	800	B	500	SMART PANEL	20	1	G	EXIST	10
11	EXIST	G	20	1	LAB BENCHES	800	C	500	FUMEHOOD	20	1	G	EXIST	12
13	EXIST	G	20	1	LAB BENCHES	800	A	500	FUMEHOOD	20	1	G	EXIST	14
15	EXIST	G	20	1	LAB BENCHES	800	B	500	FUMEHOOD	20	1	G	EXIST	16
17	EXIST	G	20	1	LAB BENCHES	800	C	720	PEDESTAL/COUNTER RCP	20	1	G	EXIST	18
19	EXIST	G	20	1	WIREMOLD	900	A	720	PEDESTAL/COUNTER RCP	20	1	G	EXIST	20
21	EXIST	G	20	1	WIREMOLD	900	B	720	PEDESTAL/COUNTER RCP	20	1	G	EXIST	22
23	EXIST	G	20	1	WIREMOLD	900	C	360	CONV RCPT	20	1	G	EXIST	24
25	EXIST	G	20	1	WIREMOLD	900	A	500	FUMEHOOD	20	1	G	EXIST	26
27	EXIST	G	20	1	WIREMOLD	900	B		SPARE				EXIST	28
29	EXIST	G	20	1	WIREMOLD	900	C	500	FUMEHOOD	20	1	G	EXIST	30
31	EXIST	G	20	1	WIREMOLD	900	A	500	FUMEHOOD	20	1	G	EXIST	32
33	EXIST	G	20	1	PROJECTOR	500	B		SPARE				EXIST	34
35	EXIST				SPARE		C		SPARE				EXIST	36
37	EXIST				SPARE		A		SPARE				EXIST	38
39	EXIST				SPARE		B		SPARE				EXIST	40
41	EXIST				SPARE		C		SPARE				EXIST	42

PHASE A 7320 | SUBTOTAL | DEMAND CALCULATION
PHASE B 6420 | 0 | CONTINUOUS LOAD (C) 125% | 0
PHASE C 6280 | 0 | DEDICATED LOAD (D) 100% | 0
20020 | GENERAL LOAD (G) 100 1ST 10KVA, 50% REST | 25025
NOTES: | LARGEST MOTOR 25% | 0
0 | MOTOR LOAD (M) 100% | 0
TOTAL DEMAND | 25025
AMPS @ 120/208 | 69

PANEL: L2C | PHASE 3 | VOLTAGE 120/208 | MCB
LOCATION: SCIENCE LAB A-211 | WIRE 4 | AIC | MLO 100A
FED FROM: B-DPB

CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD		LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	G	20	1	LAB BENCHES	800	A	500	PH MONITOR PANELS	20	1	G	EXIST	2
3	EXIST	G	20	1	LAB BENCHES	800	B	500	PEDESTALS A-209	20	1	G	EXIST	4
5	EXIST	G	20	1	LAB BENCHES	800	C	500	AUTOCLAVE	20	1	G	EXIST	6
7	EXIST	G	20	1	LAB BENCHES	800	A	500	AUTOCLAVE	20	1	G	EXIST	8
9	EXIST	G	20	1	LAB BENCHES	800	B	500	PEDESTAL/COUNTER RCP	20	1	G	EXIST	10
11	EXIST	G	20	1	LAB BENCHES	800	C	500	PEDESTAL/COUNTER RCP	20	1	G	EXIST	12
13	EXIST	G	20	1	LAB BENCHES	800	A	1000	CHARGING STATION	20	1	G	EXIST	14
15	EXIST	G	20	1	LAB BENCHES	800	B	1000	CHARGING STATION	20	1	G	EXIST	16
17	EXIST	G	20	1	WIREMOLD	900	C	1000	CHARGING STATION	20	1	G	EXIST	18
19	EXIST	G	20	1	WIREMOLD	900	A	900	WIREMOLD	20	1	G	EXIST	20
21	EXIST	G	20	1	WIREMOLD	900	B	900	WIREMOLD	20	1	G	EXIST	22
23	EXIST	G	20	1	WIREMOLD	900	C	1000	ICE MAKER	20	1	G	EXIST	24
25	EXIST	G	20	1	WIREMOLD	900	A	1000	REFRIGERATOR	20	1	G	EXIST	26
27	EXIST	G	20	1	PROJECTOR	500	B	900	WIREMOLD	20	1	G	EXIST	28
29	EXIST	G	20	1	SPEAKER/SUBWOOFER	500	C	900	WIREMOLD	20	1	G	EXIST	30
31	EXIST	G	20	1	SMART PANEL	500	A	500	SPECIAL OUTLET	20	1	G	EXIST	32
33	EXIST	G	20	1	FUMEHOOD	500	B	500	SPECIAL OUTLET	20	1	G	EXIST	34
35	EXIST	G	20	1	FUMEHOOD	500	C	540	CONV. RCPT	20	1	G	EXIST	36
37	EXIST	G	20	1	FUMEHOOD	500	A	500	FUMEHOOD	20	1	G	EXIST	38
39	EXIST	G	20	1	FUMEHOOD	500	B	500	FUMEHOOD	20	1	G	EXIST	40
41	EXIST	G	20	1	OUTLET @84"	360	C	0	SPARE	20	1	G	EXIST	42

PHASE A 10100 | SUBTOTAL | DEMAND CALCULATION
PHASE B 9600 | 0 | CONTINUOUS LOAD (C) 125% | 0
PHASE C 9200 | 0 | DEDICATED LOAD (D) 100% | 0
28900 | GENERAL LOAD (G) 100 1ST 10KVA, 50% REST | 36125
NOTES: | LARGEST MOTOR 25% | 0
0 | MOTOR LOAD (M) 100% | 0
TOTAL DEMAND | 36125
AMPS @ 120/208 | 100

PANEL: L1D | PHASE 3 | VOLTAGE 120/208 | MCB
LOCATION: CORRIDOR | WIRE 4 | AIC | MLO 100A
FED FROM: B-DPB

CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD		LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	G	20	1	RCPT A-125	360	A	360	RCPT A-129	20	1	G	EXIST	2
3	EXIST	G	20	1	RCPT A-126	360	B	360	RCPT A-129	20	1	G	EXIST	4
5	EXIST	G	20	1	RCPT A-127	360	C	360	RCPT A-129	20	1	G	EXIST	6
7	EXIST	G	20	1	RCPT A-128	360	A	360	RCPT A-129	20	1	G	EXIST	8
9	EXIST	G	20	1	RCPT A-129	360	B	360	RCPT A-129	20	1	G	EXIST	10
11	EXIST	G	20	1	RCPT A-130	360	C	360	RCPT A-129	20	1	G	EXIST	12
13	EXIST	G	20	1	RCPT A-131	360	A	360	RCPT A-129	20	1	G	EXIST	14
15	EXIST	G	20	1	RCPT A-132	360	B	360	RCPT A-129	20	1	G	EXIST	16
17	EXIST	G	20	1	RCPT A-133	360	C	360	RCPT A-129	20	1	G	EXIST	18
19	EXIST	G	20	1	RCPT A-134	360	A	360	RCPT A-129	20	1	G	EXIST	20
21	EXIST	G	20	1	RCPT A-135	360	B	360	RCPT A-129	20	1	G	EXIST	22
23	EXIST	M	20	1	RCPT A-136	360	C	360	RCPT A-129	20	1	G	EXIST	24
25	EXIST	M	20	1	SUBWOOFER	500	A	500	SUBWOOFER	20	1	G	EXIST	26
27	EXIST	G	20	1	PRJTR & PRJTR LIFT	500	B	500	PRJTR & PRJTR LIFT	20	1	G	EXIST	28
29	EXIST	G	30	1	RCPT A-127/127A	900	C	360	RCPT A-127	20	1	G	EXIST	30
31	EXIST	G	30	1	RCPT A-127/127A	800	A	360	RCPT A-127	20	1	G	EXIST	32
33	EXIST	G	30	1	RCPT A-127/127A	800	B	0	SPARE	20	1		EXIST	34
35	EXIST	G	30	1	RCPT A-127/127A	800	C	0	SPARE	20	1		EXIST	36
37	EXIST		20	1	SPARE	0	A	0	SPARE	20	1		EXIST	38
39	EXIST		20	1	SPARE	0	B	0	SPARE	20	1		EXIST	40
41	EXIST		20	1	SPARE	0	C	0	SPARE	20	1		EXIST	42

PHASE A 5040 | SUBTOTAL | DEMAND CALCULATION
PHASE B 4680 | 0 | CONTINUOUS LOAD (C) 125% | 0
PHASE C 4940 | 0 | DEDICATED LOAD (D) 100% | 0
13800 | GENERAL LOAD (G) 100 1ST 10KVA, 50% REST | 17250
NOTES: | LARGEST MOTOR 25% | 0
860 | MOTOR LOAD (M) 100% | 1075
TOTAL DEMAND | 18325
AMPS @ 120/208 | 51

PANEL: L2A | PHASE 3 | VOLTAGE 120/208 | MCB
LOCATION: 2ND FLR ELEC RM | WIRE 4 | AIC | MLO 300A
FED FROM: B-DPB

CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD		LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	G	20	1	MICROWAVE	800	A	540	RCPT-OFFICE/CORRIDOR	20	1	G	EXIST	2
3	EXIST	G	20	1	DISHWASHER	1000	B	540	RCPT-OFFICE/CORRIDOR	20	1	G	EXIST	4
5	EXIST	G	20	1	COFFEE MAKER	1200	C	540	RCPT-OFFICE/CORRIDOR	20	1	G	EXIST	6
7	EXIST	G	20	1	REFRIGERATOR	1000	A	540	RCPT-OFFICE/CORRIDOR	20	1	G	EXIST	8
9	EXIST	G	20	1	STAFF LOUNGE	720	B	360	RCPT-OFFICE/CORRIDOR	20	1	G	EXIST	10
11	EXIST	G	20	1	MTG RM RCPT	720	C	360	RCPT-OFFICE/CORRIDOR	20	1	G	EXIST	12
13	EXIST	G	20	1	MTG RM RCPT	720	A	720	RCPT-CLASS RM A-242	20	1	G	EXIST	14
15	EXIST	G	20	1	MTG RM FLR BOX RCPT	1080	B	720	RCPT-CLASS RM A-242	20	1	G	EXIST	16
17	EXIST	G	20	1	MTG RM FLR BOX RCPT	1200	C	720	RCPT-CLASS RM A-242	20	1	G	EXIST	18
19	EXIST	G	20	1	OFFICE	720	A	500	PRJTR & PRJTR LIFT	20	1	G	EXIST	20
21	EXIST	G	20	1	OFFICE	720	B	500	SPARE	20	1	G	EXIST	22
23	EXIST	G	20	1	OFFICE	720	C	360	RCPT CLASS RM A-242	20	1	G	EXIST	24
25	EXIST	G	20	1	OFFICE	720	A	720	RCPT CLASS RM A-213	20	1	G	EXIST	26
27	EXIST	G	20	1	OFFICE	720	B	720	RCPT CLASS RM A-213	20	1	G	EXIST	28
29	EXIST	G	20	1	OFFICE	720	C	540	RCPT CLASS RM A-213	20	1	G	EXIST	30
31	EXIST	G	20	1	COPY/WORK ALCOVE	1000	A	500	PRJTR & PRJTR LIFT	20	1	G	EXIST	32
33	EXIST	G	20	1	COPY/WORK ALCOVE	1000	B	500	SPARE	20	1	G	EXIST	34
35	EXIST	G	20	1	RCPT-CORR/REST RM	900	C	360	RCPT CLASS RM A-213	20	1	G	EXIST	36
37	EXIST	G	20	1	RCPT-DATA ROOM	500	A	720	RCPT CLASS RM A-215	20	1	G	EXIST	38
39	EXIST	G	20	1	RCPT-DATA ROOM	500	B	720	RCPT CLASS RM A-215	20	1	G	EXIST	40
41	EXIST	G	20	1	RCPT-DATA ROOM	500	C	540	RCPT CLASS RM A-215	20	1	G	EXIST	42

PHASE A 9700 | SUBTOTAL | DEMAND CALCULATION
PHASE B 9800 | 0 | CONTINUOUS LOAD (C) 125% | 0
PHASE C 9380 | 0 | DEDICATED LOAD (D) 100% | 0
28880 | GENERAL LOAD (G) 100 1ST 10KVA, 50% REST | 36100
NOTES: | LARGEST MOTOR 25% | 0
* AMPS ADDED FROM PANEL 'L2A' CONT. SHEET | 0 | MOTOR LOAD (M) 100% | 0
TOTAL DEMAND | 36100
AMPS @ 120/208 | 237

PANEL: L2A CONT. | PHASE 3 | VOLTAGE 120/208 | MCB
LOCATION: 2ND FLR ELEC RM | WIRE 4 | AIC | MLO 300A
FED FROM: B-DPB

CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD		LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
43	EXIST	M			CU 1-1	1768	A	1779	FCU - 14	15	2	M	1	44
45	EXIST	M			"	1768	B	1779	"			M		46
47	EXIST	M			CU 1-2	1768	C	1779	SPARE	30	2	M	EXIST	48
49	EXIST	M			"	1768	A	1779	"			M	EXIST	50
51	EXIST	M			EF-2	562	B	1779	FCU - 13	15	2	M		52
53	EXIST	M			"	562	C	1779	"			M		54
55	EXIST	M			CU-1	333	A	1779	FCU - 11	15	2	M	1	56
57	EXIST	M			"	333	B	1779	"			M		58
59	EXIST	M			CU-2	333	C	1779	FCU - 12	30	2	M	1	60
61	EXIST	M			"	333	A	1779	"			M		62
63	EXIST	M			CU 2-1	1768	B	120	ACU 2-1	20	1	M	EXIST	64
65	EXIST	M			"	1768	C		SPARE	20	1		EXIST	66
67	EXIST	M			EF-6 & EF-7	200	A		DOLPHIN PUMP	20	1		EXIST	68
69	EXIST				SPARE		B		SPARE	20	1		EXIST	70
71	EXIST	G			RCPT CORRIDOR/RESTROOM	1080	C		SPARE	20	1		EXIST	72
73	EXIST	G			SUBWOOFER	500	A	360	RCPT CLASS RM A-215	20	1	G	EXIST	74
75	EXIST	G			RCPT CLASS RM A-217	360	B		SPARE	20	1		EXIST	76
77	EXIST	G			PRJTR & PRJTR LIFT	500	C	500	PRJTR & PRJTR LIFT	20	1	G	EXIST	78
79	EXIST	G			RCPT CLASS RM A-217	720	A	300	FSD	20	1	G	EXIST	80
81	EXIST	G			RCPT CLASS RM A-213	720	B	300	FSD	20	1	G	EXIST	82
83	EXIST	G			RCPT CLASS RM A-213	540	C	300	FSD	20	1	G	EXIST	84

PHASE A 13398 | SUBTOTAL | DEMAND CALCULATION
PHASE B 11268 | 0 | CONTINUOUS LOAD (C) 125% | 0
PHASE C 12688 | 0 | DEDICATED LOAD (D) 100% | 0
5820 | GENERAL LOAD (G) 100 1ST 10KVA, 50% REST | 7275
NOTES: | LARGEST MOTOR 25% | 0
* AMPS ADDED TO PANEL 'L2A' | 31174 | MOTOR LOAD (M) 100% | 38967.5
1 - REPLACE (E) BREAKER WITH NEW | TOTAL DEMAND | 46243
2 - USE (E) BREAKER | AMPS @ 120/208 | 128

ISSUES

EDesignC
Incorporated
582 MARKET STREET,
SUITE 400
SAN FRANCISCO, CA
94104
(415) 963-4303

212 9TH STREET,
SUITE 203
OAKLAND, CA 94612

Seal & Signature:
REGISTERED PROFESSIONAL ENGINEER
STEPHEN HOWARTER
No. E18568
EXP. 12-31-16
ELECTRICAL
STATE OF CALIFORNIA

SOLANO COMMUNITY COLLEGE DISTRICT
VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

ELECTRICAL PANEL
SCHEDULE

Date: 12/29/2016
Scale: 1/8"=1'-0"
Drawn: -
Job: 16SCC01
Sheet
E10.02
Of . Sheets

PACKAGE DX/HYDRONIC HEATING ROOF TOP UNITS

SYMBOL	MANUF/ MODEL	MIN/MAX OSA (CFM)	COOLING			HEATING COIL						FAN			ELECTRIC				WEIGHT (LBS)	NOTES
			TOTAL (MBH)	SENSIBLE (MBH)	SEER/EER	MBH	GPM	EAT	LAT	EWT	LWT	FLUID PD (FT)	SUPPLY CFM/ESP	EXHAUST FAN (KW)	HP	VOLTS	PHASE	MCA	MOCP		
RTU-1	TRANE THC036	90/170	36.7	33.2	15	35.1	2.3	53	80	180	150	0.43	1200	0.65	0.75	460	3	11	15	780	1
RTU-2	TRANE THC036	150/460	36.7	33.2	15	35.1	2.3	53	80	180	150	0.43	1200	0.65	0.75	460	3	11	15	780	1
RTU-3	TRANE THC036	155/500	36.7	33.2	15	35.1	2.3	53	80	180	150	0.43	1200	0.65	0.75	460	3	11	15	780	1
RTU-4	TRANE THC036	150/470	36.7	33.2	15	35.1	2.3	53	80	180	150	0.43	1200	0.65	0.75	460	3	11	15	780	1
RTU-5	TRANE THC036	150/490	36.7	33.2	15	35.1	2.3	53	80	180	150	0.43	1200	0.65	0.75	460	3	11	15	780	1
RTU-6	TRANE THC036	210/300	36.7	33.2	15	35.1	2.3	53	80	180	150	0.43	1200	0.65	0.75	460	3	11	15	780	1
RTU-7	TRANE THC036	230/510	36.7	33.2	15	35.1	2.3	53	80	180	150	0.43	1200	0.65	0.75	460	3	11	15	780	1
RTU-8	TRANE THC092	420/1050	88.3	76.5	/12.6	87.8	5.8	53	80	180	150	2.7	3000	0.65	1.5	460	3	19.9	25	1230	1, 3
RTU-9	TRANE THC102	280/3752	95.2	86.2	/12.5	99.6	6.6	53	80	180	150	3.4	3400	0.65	2	460	3	21.6	25	1230	1, 3
RTU-10	TRANE THC102	280/3752	95.2	86.2	/12.5	99.6	6.6	53	80	180	150	3.4	3400	0.65	2	460	3	21.6	25	1230	1, 3
RTU-11	TRANE THC102	360	95.2	86.2	/12.5	99.6	6.6	53	80	180	150	3.4	3400	0.65	2	460	3	21.6	25	1230	1, 3
RTU-12	TRANE THC048	1500	53.4	46.3	15	98.9	6.6	28	85	180	150	4.8	1600	0.65	0.75	460	3	12.8	15	910	1, 2
RTU-13	TRANE THC060	1800	64.7	58.5	15	101.9	6.8	28	75	180	150	9	2000	0.65	1	460	3	13.8	20	960	1, 2
RTU-14	TRANE THC048	1500	53.4	46.3	15	98.9	6.6	28	85	180	150	4.8	1600	0.65	0.75	460	3	12.8	15	910	1, 2

NOTES:
1. BELT DRIVE, PROVIDE WITH 1" THROWAWAY FILTERS (MERV , CONVENIENCE OUTLET, NON-FUSED DISCONNECT, THRU THE BASE ELECTRICAL CONNECTION) ECONOMIZER SECTIONS AND DEMAND CONTROL VENTILATION CONTROLS.
2. PROVIDE WITH FROSTAT AND CRANKCASE HEATERS (UNITS PROVIDING 100% OUTSIDE AIR).
3. PROVIDE WITH DUCT SMOKE DETECTOR IN THE SUPPLY DUCT FOR THE UNIT.

INDOOR DX/HYDRONIC HEATING HORIZONTAL UNITS

SYMBOL	MANUF/ MODEL	OUTDOOR UNIT	MIN OSA (CFM)	SENSIBLE COOLING (MBH)	HEATING COIL						FAN			ELECTRIC				WEIGHT (LBS)	NOTES
					MBH	GPM	EAT	LAT	EWT	LWT	FLUID PD (FT)	CFM	ESP	HP	VOLTS	PHASE	MCA	MOCP		
FCU-1	TRANE GAM5A0A18	CU-1	80	5.6	28.8	3	70	120	180	150	0.4	600	0.5	1/3	208	1	4	15	150	
FCU-2	TRANE GAM5A0A18	CU-2	50	8.4	28.8	3	70	120	180	150	0.4	600	0.5	1/3	208	1	4	15	150	
FCU-3	TRANE GAM5A0A30	CU-3	470	18	35.4	3	70	114	180	150	0.5	1000	0.5	1/3	208	1	4	15	150	
FCU-4	TRANE GAM5A0A36	CU-4	610	25	37.4	3	70	111	180	150	0.5	1200	0.5	1/2	208	1	5	15	170	
FCU-5	TRANE GAM5A0A36	CU-5	550	21.5	37.4	3	70	111	180	150	0.5	1200	0.5	1/2	208	1	5	15	170	
FCU-6	TRANE GAM5A0A60	CU-6	1200	49.1	49.9	3	70	99	180	150	0.5	1600	0.5	1	208	1	10	15	190	
FCU-7	TRANE GAM5A0A30	CU-7	1200	49.1	35.4	3	70	114	180	150	0.5	1000	0.5	1/3	208	1	4	15	150	
FCU-8	TRANE GAM5A0A36	CU-8	430	25.4	37.4	3	70	111	180	150	0.5	1200	0.5	1/2	208	1	5	15	170	
FCU-9	TRANE GAM5A0A18	CU-9	30	10	28.8	3	70	120	180	150	0.4	600	0.5	1/3	208	1	4	15	150	
FCU-10	TRANE GAM5A0A48	CU-10	450	34.8	49.9	3	70	99	180	150	0.5	1600	0.5	/3/4	208	1	8	15	190	
FCU-11	TRANE GAM5A0A18	CU-11	40	11.4	28.8	3	70	120	180	150	0.4	600	0.5	1/3	208	1	4	15	150	
FCU-12	TRANE GAM5A0A18	CU-12	40	11.5	28.8	3	70	120	180	150	0.4	600	0.5	1/3	208	1	4	15	150	
FCU-13	TRANE GAM5A0A18	CU-13	90	9.4	28.8	3	70	120	180	150	0.4	600	0.5	1/3	208	1	4	15	150	
FCU-14	TRANE GAM5A0A18	CU-14	80	7.7	28.8	3	70	120	180	150	0.4	600	0.5	1/3	208	1	4	15	150	

NOTES:
1. PROVIDE WITH CONDENSATE PUMP, FILTER RACK, 1" THROWAWAY FILTERS (MERV 8), PROGRAMABLE THERMOSTAT AND DRAIN PAN. SET FAN SPEED TO ACHIEVE AIR VOLUME STATED ABOVE.

CONDENSING UNITS

SYMBOL	MANUFACTURER /MODEL	INDOOR UNIT	REFRIG TYPE	OSA TEMP (F)	COOLING		ELECTRIC				WEIGHT (LBS)	NOTES
					TOTAL (MBH)	SEER	VOLTS	PHASE	MCA	MOCP		
CU-1	TRANE 4TTR4018L	FCU-1	410A	95	8.1	15.5	208	1	12	20	150	
CU-2	TRANE 4TTR4018L	FCU-2	410A	95	9.3	15.5	208	1	12	20	150	
CU-3	TRANE 4TTR4030L	FCU-3	410A	95	27.8	15.5	208	1	17	25	180	
CU-4	TRANE 4TTR4036L	FCU-4	410A	95	34.8	15.5	208	1	18	30	180	
CU-5	TRANE 4TTR4036L	FCU-5	410A	95	30.8	15.5	208	1	18	30	180	
CU-6	TRANE 4TTR4060L	FCU-6	410A	95	73.4	14	208	1	31	50	230	
CU-7	TRANE 4TTR4030L	FCU-7	410A	95	27.8	15.5	208	1	17	25	180	
CU-8	TRANE 4TTR4036L	FCU-8	410A	95	33.6	15.5	208	1	18	30	180	
CU-9	TRANE 4TTR4018L	FCU-9	410A	95	12	15.5	208	1	12	20	150	
CU-10	TRANE 4TTR4048L	FCU-10	410A	95	44.4	15.5	208	1	24	40	200	
CU-11	TRANE 4TTR4018L	FCU-11	410A	95	12	15.5	208	1	12	20	150	
CU-12	TRANE 4TTR4018L	FCU-12	410A	95	11.8	15.5	208	1	12	20	150	
CU-13	TRANE 4TTR4018L	FCU-13	410A	95	11.1	15.5	208	1	12	20	150	
CU-14	TRANE 4TTR4018L	FCU-14	410A	95	10.5	15.5	208	1	12	20	150	

GENERAL MECHANICAL NOTES

1. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS (C.C.R.), 2013 CMC.
2. ALL SYSTEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE CITY, COUNTY, FEDERAL AND STATE CODES AND ORDINANCES, AND SHALL MEET ALL REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
3. SYSTEM LAYOUTS AS INDICATED ON DRAWINGS ARE GENERALLY DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION WILL PERMIT.
4. PRIOR TO SUBMISSION OF BID, REVIEW FULL SET OF NEW CONSTRUCTION DRAWINGS (INCLUDING ALL OTHER TRADES). INCLUDE ANY ADDITIONAL PIPE OR DUCT OFF-SETS THAT ARE NOT CURRENTLY SHOWN ON DRAWINGS BUT MAY BE REQUIRED TO CLEAR STRUCTURE, FINISHES OR WORK OF OTHER TRADES. NO EXTRA PAYMENT WILL BE ALLOWED FOR WORK RESULTING FROM LACK OF PROPER INITIAL APPRAISAL OF ENTIRE SCOPE OF WORK. SUBMIT REQUESTS FOR INFORMATIONS (RFIS) AS REQUIRED TO ANSWER ANY QUESTIONS THAT MAY ARISE DURING BIDDING PHASE. CLEARLY INDICATE SCOPE INCLUSION AND EXCLUSION IN BID.
5. FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, AND PERFORM ALL REQUIRED OPERATIONS TO PROVIDE COMPLETE AND OPERABLE MECHANICAL SYSTEM, IN ACCORDANCE WITH THE FULL INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS AND PER STANDARD TRADE PRACTICES.
6. WORKMANSHIP SHALL BE FIRST CLASS THROUGHOUT AND PERFORMED ONLY BY COMPETENT AND EXPERIENCED WORKMEN IN A MANNER SATISFACTORY TO THE OWNER AND ARCHITECT.
7. ALL EQUIPMENT SHALL BE INSTALLED WITH SUFFICIENT ACCESS TO CONTROLS, FILTERS, ELECTRIC MOTORS, ETC. CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED.
8. COORDINATE ACCESS TO ALL DAMPERS, VALVES, AND OTHER SERVICEABLE EQUIPMENT.
9. PROVIDE BIRD SCREENS AT ALL INTAKE AND EXHAUST OPENINGS.
10. FLASH AND COUNTER FLASH ALL ROOF PENETRATIONS AS REQUIRED TO SEAL WEATHER TIGHT. (SEE ARCHITECTURAL ROOFING DETAILS AND SPECIFICATIONS).
11. PROVIDE UL-LISTED/APPROVED THROUGH PENETRATION FIRE-STOPPING AT ALL DUCT, PIPE AND CONDUIT PENETRATIONS OF FIRE-RATED WALLS, FLOORS, CEILING/FLOOR OR CEILING/ROOF ASSEMBLIES AND SHAFTS COMPLIANT WITH CHAPTER 7 OF THE 2013 CALIFORNIA BUILDING CODE.
12. LIMITING TRANSMISSION OF NOISE AND VIBRATIONS IS EXTREMELY IMPORTANT. CONTRACTOR TO PAY PARTICULAR ATTENTION THAT PIPING, EQUIPMENT, AND DUCTWORK ARE INSTALLED SO AS NOT TO CHATTER OR RUB AGAINST OTHER MATERIALS, EQUIPMENT OR BUILDING STRUCTURE. PROVIDE ISOMODE PADS, INSULATION OR OTHER SUITABLE MATERIALS TO AVOID DIRECT CONTACT AND NOISY CONDITIONS. SUFFICIENT CLEARANCES OF PIPING AND ITS ASSOCIATED COMPONENTS SHALL BE PROVIDED FROM ADJACENT JOIST, STUDS, BEAMS, COLUMNS DRYWALL, ETC. TO ALLOW FOR PIPE MOVEMENT DUE TO THERMAL EXPANSION AND STILL NOT COME IN CONTACT WITH STRUCTURE. INSULATION SHALL BE CONTINUOUS THROUGH PIPE HANGERS (PROVIDE SHEET METAL INSULATION SHIELD AT EACH HANGER).
13. WHERE JOIST, STUD OR BEAM PENETRATIONS ARE REQUIRED, SIZE TO PROVIDE ADEQUATE CLEARANCE FROM PIPE BUT DO NOT SIZE FOR INSULATION. PROVIDE "ACCOUSTO-PLUMB" ISOLATORS AT EACH SUCH PIPE PENETRATION AND BUTT ENDS OF INSULATION TIGHT AGAINST FRAMING TO ELIMINATE ANY CONNECTIVE HEAT LOSS. REVIEW ALL SUCH PENETRATIONS WITH ARCHITECT AND GENERAL CONTRACTOR BEFORE DRILLING OR NOTCHING. SEE STRUCTURAL DRAWINGS FOR CRITERIA ON JOIST PENETRATIONS - VERIFY WITH GENERAL CONTRACTOR.
14. PROVIDE DIELECTRIC INSULATING CONNECTIONS BETWEEN ALL DISSIMILAR METALS.
15. NOTIFY OWNER AND GENERAL CONTRACTOR 48 HOURS IN ADVANCE BEFORE ANY TESTING.
16. PROVIDE DUCT AND PIPE INSULATION AND THERMOSTATS PER TITLE 24 REQUIREMENTS AND SPECIFICATIONS.
17. PER CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11 OF TITLE 24, CALIFORNIA CODE OF REGULATIONS), PROTECT DUCT OPENINGS AND MECHANICAL EQUIPMENT DURING CONSTRUCTION. LIMIT USE OF PERMANENT HVAC DURING CONSTRUCTION TO CONDITIONING NECESSARY FOR MATERIAL AND EQUIPMENT INSTALLATION. IF PERMANENT HVAC IS USED DURING CONSTRUCTION, INSTALL MERV-8 FILTERS ON RETURNS, AND REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION.
18. PER CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11 OF TITLE 24, CALIFORNIA CODE OF REGULATIONS), PROVIDE AT LEAST MERV-8 FILTERS IN REGULARLY OCCUPIED SPACES OF MECHANICALLY VENTILATED BUILDINGS.
19. PER CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11 OF TITLE 24, CALIFORNIA CODE OF REGULATIONS), DO NOT INSTALL EQUIPMENT THAT CONTAINS CFCS OR HALONS.
20. THE FIRST 10 FEET OF SUPPLY AND RETURN DUCTS CONNECTED TO THE ROOFTOP AND FAN COIL UNITS SHALL BE LINED WITH MINIMUM 1" SOUND ABSORBING LINING. DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS. INSTALL PER MANUFACTURERS INSTRUCTIONS.

MEP COMPONENT ANCHORAGE 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 2013 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 29 AND 30.
  1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
  2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
  3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
- THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENT S SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
  1. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
  2. 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 STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

LOW NOX GAS FIRED BOILER SCHEDULE

SYMBOL	MANUFACTURER /MODEL	LOCATION	NATURAL GAS			WATER DATA					FLUE (IN)	ELECTRIC				WEIGHT (LBS)	NOTES
			INPUT (MBH)	OUTPUT (MBH)	AFUE	EWT	LWT	GPM	VOLUME (GAL)	PRESS DROP (FT		VOLTS	PHASE	FLA	MOCP		
B-1	LAARS PENNANT PNCH1000	MECH ROOM	999	849	85%	150	180	57	---	---	10	120	1	12	15	700	1
B-2	LAARS PENNANT PNCH1000	MECH ROOM	999	849	85%	150	180	57	---	---	10	120	1	12	15	700	1

NOTES:
1. PROVIDE FACTORY-MOUNTED CIRCULATION PUMP.

PUMP SCHEDULE

SYMBOL	MANUFACTURER /MODEL	LOCATION	SYSTEM	TYPE	FLOW (GPM)	HEAD (FT OF WATER)	RPM	ELECTRICAL				WEIGHT (LBS)	NOTES
								VOLT	PHASE	HP	BHP		
HHWP-1	BELL & GOSSETT SERIES E-80 1.5x1.5x7C	MECH ROOM	HEATING HOT WATER	IN-LINE	90	35	---	460	3	1	---	200	1
HHWP-2	BELL & GOSSETT SERIES E-80 1.5x1.5x7C	MECH ROOM	HEATING HOT WATER	IN-LINE	90	35	---	460	3	1	---	200	1

NOTES
1. PROVIDE WITH VFD.

DIFFUSER, GRILLE AND REGISTER SCHEDULE

SYMBOL	MANUFACTUR	AREA SERVED	FACE SIZE	TYPE	MOUNTI	NOTES
A	TITUS PCS	VARIOUS	SEE PLANS	SUPPLY GRILLE	T-BAR CEILING	ALUMINUM PERFORATED FACE DIFFUSER WITH STEEL, ADJUSTABLE, CURVED NECK MOUNTED DEFLECTOR BLADES.
B	TITUS PAR	VARIOUS	SEE PLANS	RETURN GRILLE	T-BAR CEILING	STEEL PERFORATED FACE RETURN.

SYMBOLS

NOTE: NOT ALL SYMBOLS APPLY

SYMBOL	ABBR	DESCRIPTION
		DETAIL NUMBER / DRAWING NUMBER
		SECTION NUMBER / DRAWING NUMBER
		EQUIPMENT TYPE / UNIT NUMBER
		SYMBOL AIR QUANTITY / NECK SIZE (4-WAY UON)
		CEILING SUPPLY DIFFUSER/REGISTER
		CEILING RETURN GRILLE/REGISTER
		CEILING EXHAUST GRILLE/REGISTER
		CEILING TRANSFER DIFFUSER/GRILLE
		CEILING OUTSIDE AIR GRILLE/REGISTER
		SLOT DIFFUSER WITH AIR DUCT
		WALL SUPPLY GRILLE/REGISTER
		WALL RETURN OR EXHAUST GRILLE/REGISTER
		SUPPLY AIR DUCT RISER/DROP
		RETURN AIR DUCT RISER/DROP
		EXHAUST AIR DUCT RISER/DROP
		OUTSIDE AIR DUCT RISER/DROP
(D)	R or D	SLOPED DUCT (RISE OR DROP)
	L	ACOUSTICAL LINING (1" FIBERGLASS U.O.N.)
	TV	TURNING VANES
FD FD	FD	FIRE DAMPER
FS FS	FS	FIRE-SMOKE DAMPER
	VD	VOLUME DAMPER
	BDD	BACK DRAFT DAMPER
		FLEXIBLE DUCT
		SQUARE TO ROUND DUCT
		DUCT CONTINUATION
RL		REFRIGERANT LIQUID
RS		REFRIGERANT SUCTION
T	T-STAT	THERMOSTAT (MOUNT AT 48" AFF)
S		TEMPERATURE SENSOR (MOUNT AT 48" AFF)
#		REFERENCE NOTE
CO2		CO2 SENSOR
HHWS	HHWS	HEATING HOT WATER SUPPLY
HHWR	HHWR	HEATING HOT WATER RETURN
		DIRECTION OF SLOPE
		DIRECTION OF FLOW
		BALL VALVE
	P&TRV	RELIEF VALVE, P&T RELIEF VALVE
		BUTTERFLY VALVE
		GATE VALVE
		CHECK VALVE
		2-WAY CONTROL VALVE
		3-WAY CONTROL VALVE
		STRAINER
		STRAINER WITH BLOW OFF
		PRESSURE GAGE
		PRESSURE GAUGE WITH COCK
		THERMOMETER
		PUMP
		TEST TAP (PETE'S PLUG)
MV		MANUAL AIR VENT
AAV		AUTOMATIC AIR VENT
		PIPE GUIDE
		EXPANSION JOINT
		FLEXIBLE CONNECTOR
		UNION
		CAPPED OR PLUGGED TEE
		EXPANSION LOOP
		PIPE UP
		PIPE DOWN
		TOP CONNECTION - BRANCH LINE
		BOTTOM CONNECTION - BRANCH LINE
		PIPE ANCHOR
		TEE UP
		TEE DOWN
		CIRCUIT SETTER

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS APPLY

Ø	DIAMETER	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	MA	MIXED AIR
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
AMP	AMPERE	MBH	THOUSAND BTU PER HOUR
ARCH	ARCHITECTURAL	MECH	MECHANICAL
BDD	BACKDRAFT DAMPERS	MIN	MINIMUM
BHP	BRAKE HORSEPOWER	(N)	NEW
BLDG	BUILDING	N/A	NOT APPLICABLE
BOD	BOTTOM OF DUCT	NC	NORMALLY CLOSED
BTU	BRITISH THERMAL UNIT	NIC	NOT IN CONTRACT
BTUH	BRITISH THERMAL UNIT PER HOUR	NO	NUMBER OR NORMALLY OPEN
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
CL	CENTER LINE	OAT	OUTSIDE AIR TEMPERATURE
CLG	CEILING	OBD	OPPOSED BLADE DAMPER
DBT	DRY BULB TEMPERATURE	OC	ON CENTER
DN	DOWN	OD	OUTSIDE DIMENSION
DSD	DUCT MOUNTED SMOKE DETECTOR	OSA	OUTSIDE AIR
(E)	EXISTING	PD	PRESSURE DROP
EA	EXHAUST AIR	PH	PHASE
EAT	ENTERING AIR TEMPERATURE	PLBG	PLUMBING
EER	ENERGY EFFICIENCY RATIO	POC	POINT OF CONNECTION
ELEC	ELECTRICAL	POD	POINT OF DEMOLITION
ESP	EXTERNAL STATIC PRESSURE (IN WG)	RA	RETURN AIR
EWT	ENTERING WATER TEMPERATURE	REQD	REQUIRED
F	FAHRENHEIT	REV	REVISION
FA	FACE AREA	RPM	REVOLUTIONS PER MINUTE
FLA	FULL LOAD AMPS	SA	SUPPLY AIR
FD	FIRE DAMPER	SD	SMOKE DAMPER
FPM	FEET PER MINUTE	SEER	SEASONAL ENERGY EFFICIENCY RATIO
FSD	FIRE/SMOKE DAMPER	SP	STATIC PRESSURE
FT	FEET	SQ.FT.	SQUARE FEET
GA	GAUGE	STRUCT	STRUCTURAL
GAL	GALLONS	TA	TRANSFER AIR
GALV	GALVENIZED	TCP	TEMPERATURE CONTROL PANEL
GPM	GALLONS PER MINUTE	TEMP	TEMPERATURE
HD	HEAD	TOD	TOP OF DUCT
HP	HORSEPOWER	TYP	TYPICAL
HVAC	HEATING VENTILATING AND AC	UC	UNDERCUT
HZ	HERTZ	UG	UNDERGROUND
ID	INSIDE DIAMETER	UON	UNLESS OTHERWISE NOTED
IN.	INCH	VAV	VARIABLE AIR VOLUME
IN. W.G.	INCHES WATER GAGE (PRESSURE)	VEL	VELOCITY
KW	KILOWATT	VFD	VARIABLE FREQUENCY DRIVE
LAT	LEAVING AIR TEMPERATURE	WG	WATER GAGE
LBS	POUNDS	WT	WEIGHT
LF	LINEAR FEET		

APPLICABLE CODES

1. 2013 BUILDING STANDARD ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2. 2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.;
3. 2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.;
4. 2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.;
5. 2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.;
6. 2013 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.;
7. 2013 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.;
8. 2013 CALIFORNIA "GREEN" BUILDING REQUIREMENTS, PART 11, TITLE 24 C.C.R
9. 2013 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R
10. 2013 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
11. TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

REFERENCE CODE SECTION FOR NFPA STANDARDS - CBC(SFM) 3504.1
TITLE 24 C.C.R. ACCESSIBILITY STANDARDS
AMERICAN WITH DISABILITIES ACT (A.D.A., ADAAG) FEDERAL ACCESSIBILITY STANDARDS

MECHANICAL SCOPE OF WORK

1. REPLACE EXISTING WATER SOURCE HEAT PUMP UNITS WITH DX COOLING/HYDRONIC HEATING UNITS. MODIFY DUCTS, DIFFUSERS AND PIPING AS NECESSARY.
2. REMOVE EXISTING COOLING TOWER AND BOILER.
3. PROVIDE 2 NEW BOILERS AND HEATING HOT WATER PUMPS.
4. MODIFY EXISTING CONDENSER WATER PIPING SYSTEM FOR USE AS HEATING HOT WATER SYSTEM.
5. PROVIDE (N) IN-LINE EXHAUST FANS AND ASSOCIATED DUCTWORK FOR TWO JANITOR CLOSETS.
6. MODIFY RETURN GRILLES/DUCTS AS SHOWN.
7. RELOCATE THERMOSTATS AS SHOWN.

SHEET INDEX

M0.01	MECHANICAL TITLE SHEET
M0.02	MECHANICAL DETAILS
M1.10	FIRST FLOOR EAST MECHANICAL DEMOLITION PLAN
M1.11	FIRST FLOOR WEST MECHANICAL DEMOLITION PLAN
M1.12	SECOND FLOOR MECHANICAL DEMOLITION PLAN
M1.13	ROOF EAST MECHANICAL DEMOLITION PLAN
M1.14	ROOF WEST MECHANICAL DEMOLITION PLAN
M2.10	FIRST FLOOR EAST MECHANICAL DUCTWORK PLAN
M2.11	FIRST FLOOR WEST MECHANICAL DUCTWORK PLAN
M2.12	SECOND FLOOR MECHANICAL DUCTWORK PLAN
M2.13	ROOF EAST MECHANICAL PROPOSED PLAN
M2.14	ROOF WEST MECHANICAL PROPOSED PLAN
M3.10	FIRST FLOOR EAST MECHANICAL HYDRONIC PLAN
M3.11	FIRST FLOOR WEST MECHANICAL HYDRONIC PLAN
M3.12	SECOND FLOOR MECHANICAL HYDRONIC PLAN

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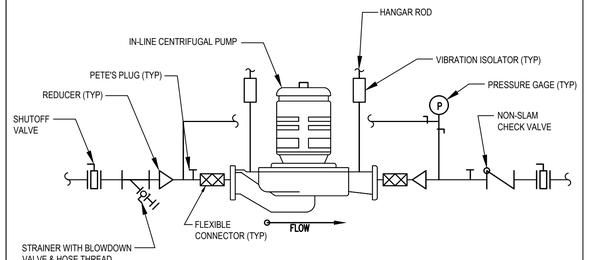
SOLANO COMMUNITY COLLEGE DISTRICT
VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

MECHANICAL SCHEDULES, NOTES AND LEGEND

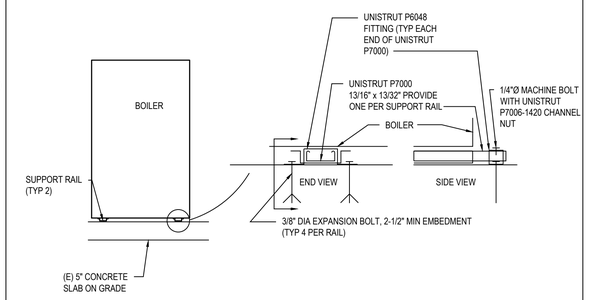
Date: 12/29/2016
Scale: 1/8"=1'-0"
Drawn: _
Job: 16SCC01
Sheet M0.01
Of . Sheets



NOTE:
REFER TO DETAIL 7, THIS SHEET, FOR UPPER ATTACHEMENTS TO STRUCTURE ABOVE.

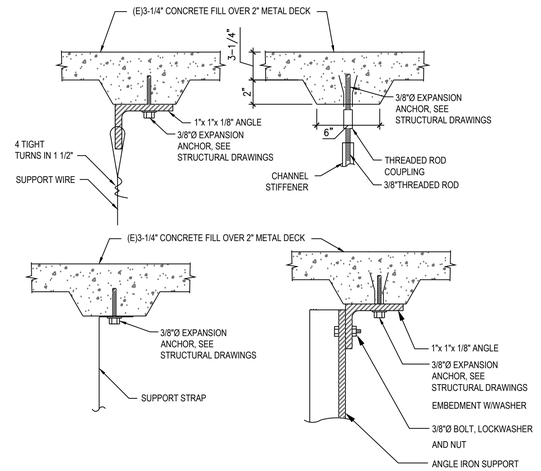
10 IN-LINE PUMP MOUNTING DETAIL

SCALE: NONE



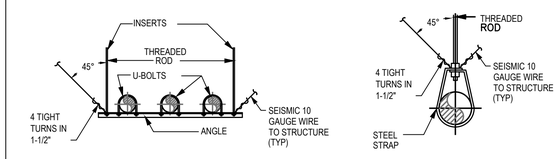
8 BOILER MOUNTING DETAIL

SCALE: NONE



7 UPPER ATTACHMENT DETAIL

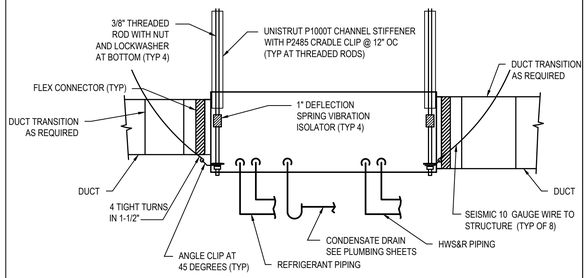
SCALE: NONE



NOTE:
REFER TO DETAIL 7, THIS SHEET, FOR UPPER ATTACHMENTS.

4 PIPE MOUNTING DETAIL

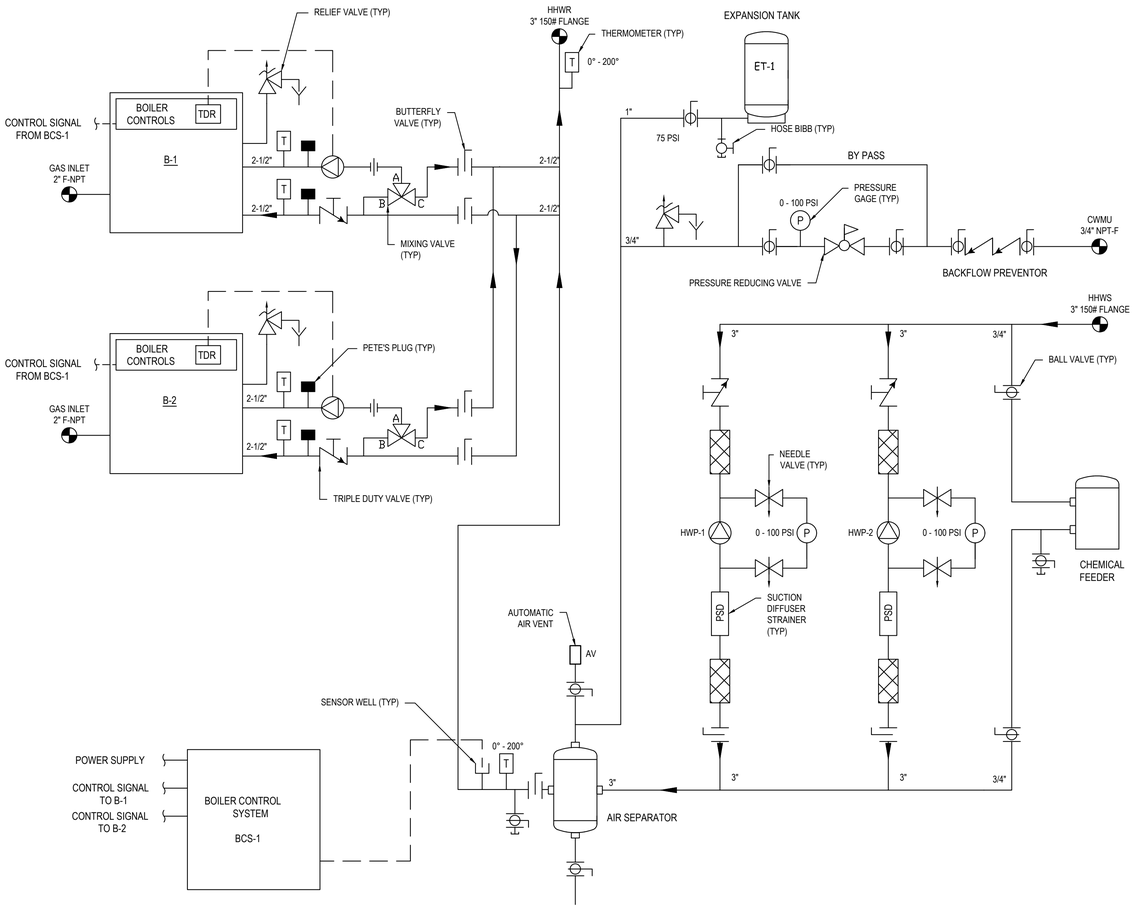
SCALE: NONE



NOTE:
REFER TO DETAIL 7, THIS SHEET, FOR UPPER ATTACHEMENTS.

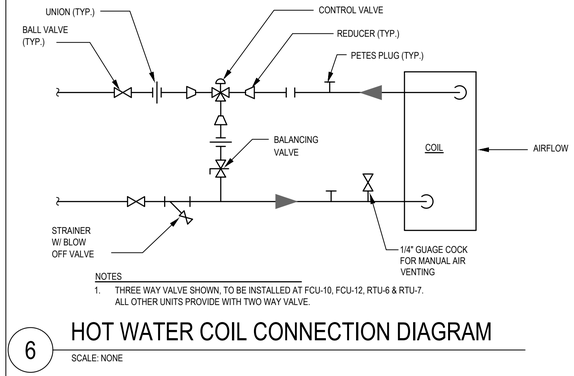
3 FANCOIL UNIT MOUNTING DETAIL

SCALE: NONE



9 HEATING HOT WATER PIPING DIAGRAM

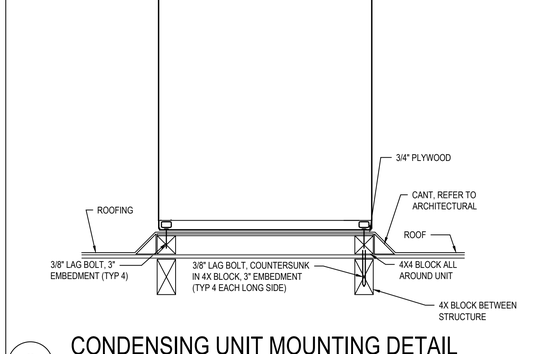
SCALE: NONE



NOTES
1. THREE WAY VALVE SHOWN, TO BE INSTALLED AT FCU-10, FCU-12, RTU-6 & RTU-7. ALL OTHER UNITS PROVIDE WITH TWO WAY VALVE.

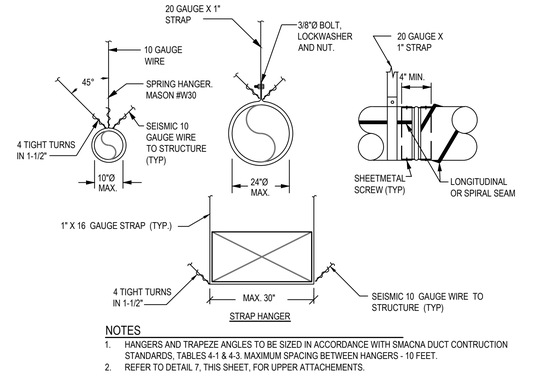
6 HOT WATER COIL CONNECTION DIAGRAM

SCALE: NONE



2 CONDENSING UNIT MOUNTING DETAIL

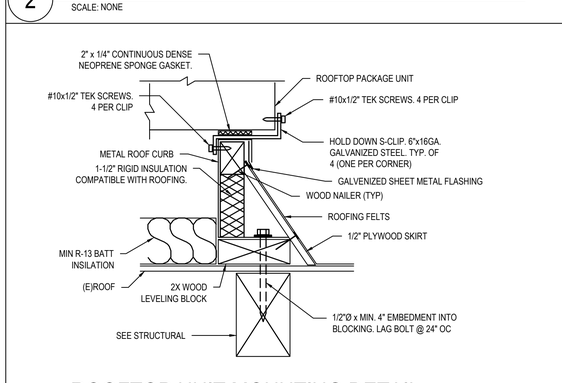
SCALE: NONE



NOTES
1. HANGERS AND TRAPEZE ANGLES TO BE SIZED IN ACCORDANCE WITH SMACNA DUCT CONTRUCTION STANDARDS, TABLES 4-1 & 4-3. MAXIMUM SPACING BETWEEN HANGERS - 10 FEET.
2. REFER TO DETAIL 7, THIS SHEET, FOR UPPER ATTACHEMENTS.

5 DUCTWORK MOUNTING DETAIL

SCALE: NONE



1 ROOFTOP UNIT MOUNTING DETAIL

SCALE: NONE

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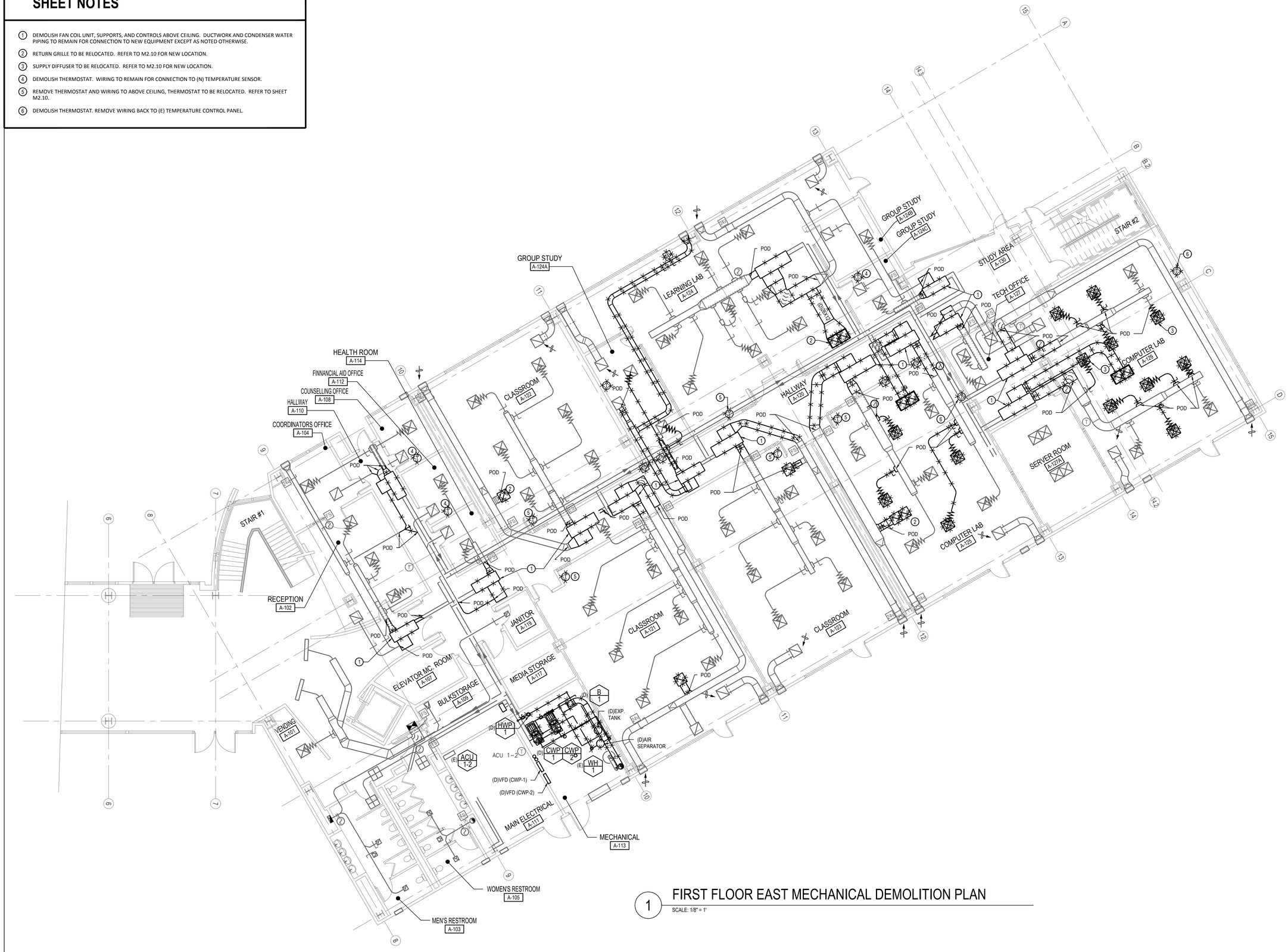
SOLANO COMMUNITY COLLEGE DISTRICT
VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

MECHANICAL DETAILS

Date: 12/29/2016
Scale: 1/8"=1'-0"
Drawn: _
Job: 16SCC01
Sheet M0.02
Of . Sheets

SHEET NOTES

1. DEMOLISH FAN COIL UNIT, SUPPORTS, AND CONTROLS ABOVE CEILING. DUCTWORK AND CONDENSER WATER PIPING TO REMAIN FOR CONNECTION TO NEW EQUIPMENT EXCEPT AS NOTED OTHERWISE.
2. RETURN GRILLE TO BE RELOCATED. REFER TO M2.10 FOR NEW LOCATION.
3. SUPPLY DIFFUSER TO BE RELOCATED. REFER TO M2.10 FOR NEW LOCATION.
4. DEMOLISH THERMOSTAT. WIRING TO REMAIN FOR CONNECTION TO (N) TEMPERATURE SENSOR.
5. REMOVE THERMOSTAT AND WIRING TO ABOVE CEILING, THERMOSTAT TO BE RELOCATED. REFER TO SHEET M2.10.
6. DEMOLISH THERMOSTAT. REMOVE WIRING BACK TO (E) TEMPERATURE CONTROL PANEL.



1 FIRST FLOOR EAST MECHANICAL DEMOLITION PLAN

SCALE: 1/8" = 1'

	ISSUES

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SOLANO COMMUNITY COLLEGE DISTRICT
VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

FIRST FLOOR EAST
MECHANICAL
DEMOLITION PLAN

Date: 12/29/2016
Scale: 1/8"=1'-0"
Drawn: -
Job: 16SCC01
Sheet M1.10
Of . Sheets

1 FIRST FLOOR WEST MECHANICAL DEMOLITION PLAN

SCALE: 1/8" = 1'

SHEET NOTES

1. (E) SUPPLY AND RETURN DUCTWORK TO REMAIN. REFER TO SHEET M1.14 FOR CHANGES TO ROOFTOP UNITS.
2. DEMOLISH THERMOSTAT. WIRING TO REMAIN FOR CONNECTION TO (N) TEMPERATURE SENSOR.

	ISSUES

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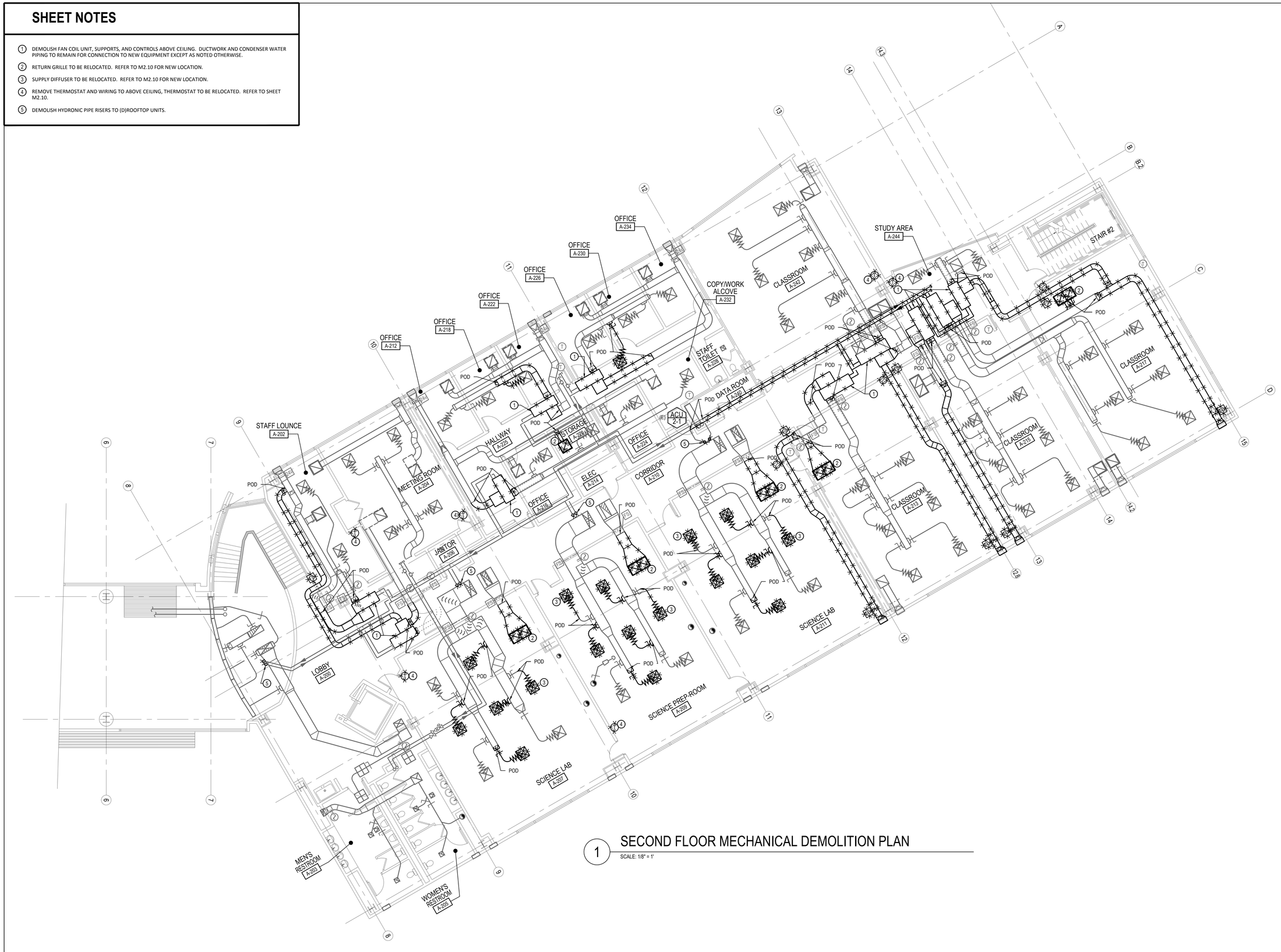
MECHANICAL EQUIPMENT REPLACEMENT

FIRST FLOOR WEST
MECHANICAL
DEMOLITION PLAN

Date: 12/29/2016
Scale: 1/8"=1'-0"
Drawn: -
Job: 16SCC01
Sheet M1.11
Of . Sheets

SHEET NOTES

1. DEMOLISH FAN COIL UNIT, SUPPORTS, AND CONTROLS ABOVE CEILING. DUCTWORK AND CONDENSER WATER PIPING TO REMAIN FOR CONNECTION TO NEW EQUIPMENT EXCEPT AS NOTED OTHERWISE.
2. RETURN GRILLE TO BE RELOCATED. REFER TO M2.10 FOR NEW LOCATION.
3. SUPPLY DIFFUSER TO BE RELOCATED. REFER TO M2.10 FOR NEW LOCATION.
4. REMOVE THERMOSTAT AND WIRING TO ABOVE CEILING, THERMOSTAT TO BE RELOCATED. REFER TO SHEET M2.10.
5. DEMOLISH HYDRONIC PIPE RISERS TO (D)ROOFTOP UNITS.



1 SECOND FLOOR MECHANICAL DEMOLITION PLAN

SCALE: 1/8" = 1'

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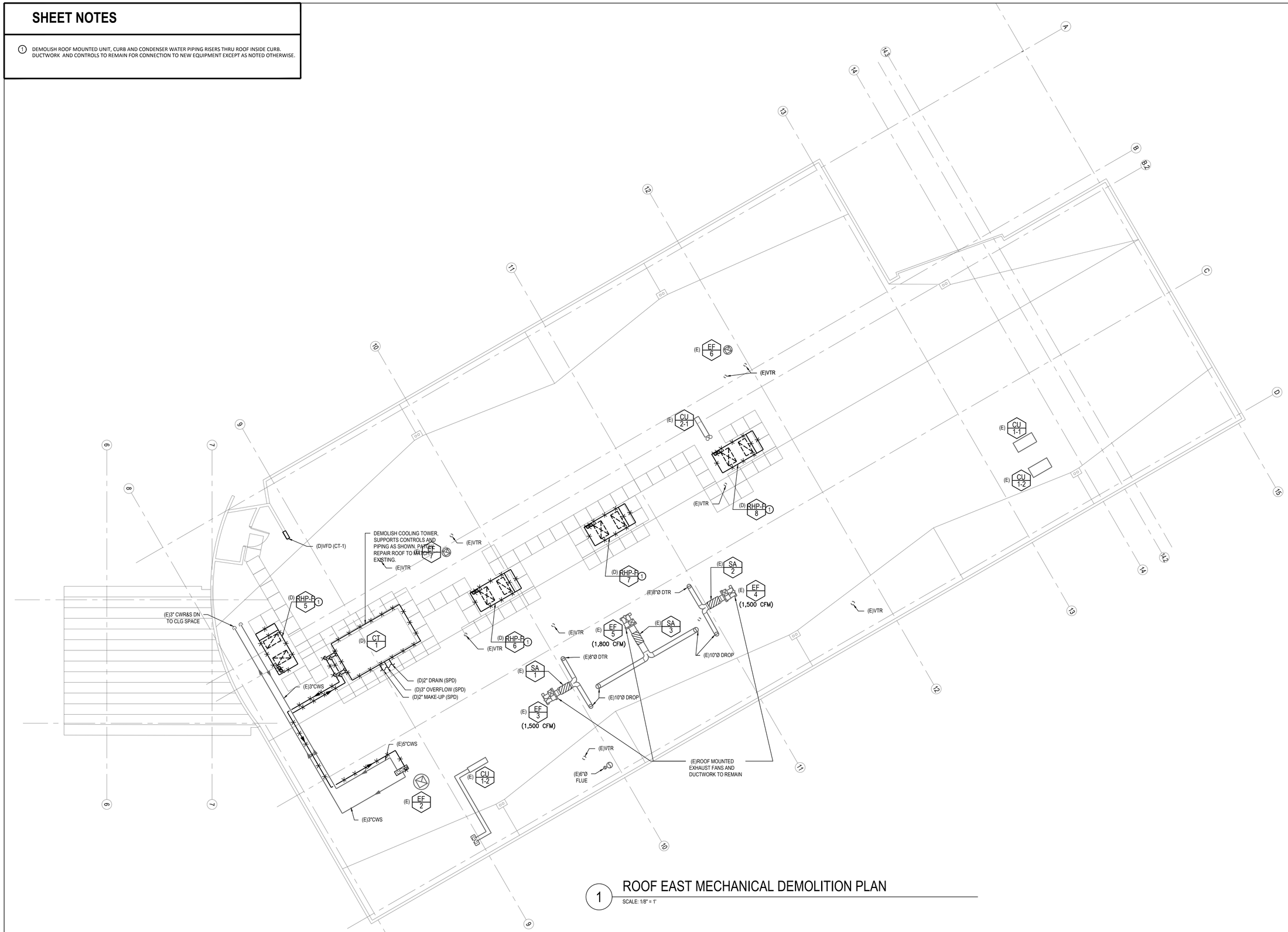
MECHANICAL EQUIPMENT REPLACEMENT

SECOND FLOOR
MECHANICAL
DEMOLITION PLAN

Date:	12/29/2016
Scale:	1/8"=1'-0"
Drawn:	_
Job:	16SCC01
Sheet	M1.12
Of	. Sheets

SHEET NOTES

1. DEMOLISH ROOF MOUNTED UNIT, CURB AND CONDENSER WATER PIPING RISERS THRU ROOF INSIDE CURB. DUCTWORK AND CONTROLS TO REMAIN FOR CONNECTION TO NEW EQUIPMENT EXCEPT AS NOTED OTHERWISE.



1 ROOF EAST MECHANICAL DEMOLITION PLAN

SCALE: 1/8" = 1'

	ISSUES

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STATE OF CALIFORNIA

SOLANO COMMUNITY COLLEGE DISTRICT
VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

ROOF EAST
MECHANICAL
DEMOLITION PLAN

Date: 12/29/2016
Scale: 1/8"=1'-0"
Drawn: _
Job: 16SCC01
Sheet M1.13
Of . Sheets

SHEET NOTES

1. DEMOLISH ROOF MOUNTED UNIT AND CURB. DUCTWORK AND CONDENSER WATER PIPING TO REMAIN FOR CONNECTION TO NEW EQUIPMENT EXCEPT AS NOTED OTHERWISE.

1 ROOF WEST MECHANICAL DEMOLITION PLAN

SCALE: 1/8" = 1'

	ISSUES

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VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

ROOF WEST
MECHANICAL
DEMOLITION PLAN

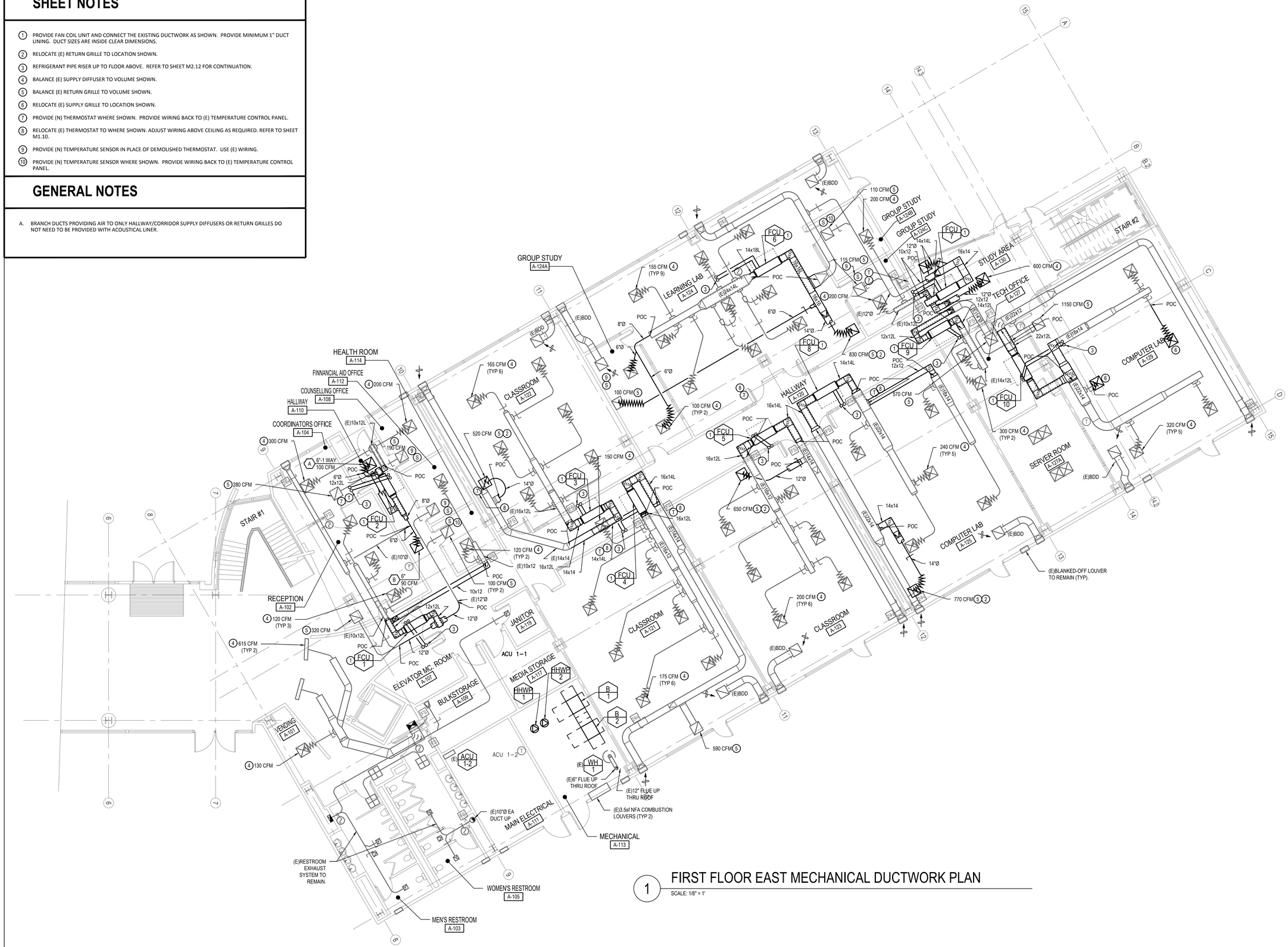
Date: 12/29/2016
Scale: 1/8"=1'-0"
Drawn: -
Job: 16SCC01
Sheet M1.14
Of . Sheets

SHEET NOTES

1. PROVIDE FAN COIL UNIT AND CONNECT THE EXISTING DUCTWORK AS SHOWN. PROVIDE MINIMUM 1" DUCT LINING. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS.
2. RELOCATE (E) RETURN GRILLE TO LOCATION SHOWN.
3. REFRIGERANT PIPE RISER UP TO FLOOR ABOVE. REFER TO SHEET M2.12 FOR CONTINUATION.
4. BALANCE (E) SUPPLY DIFFUSER TO VOLUME SHOWN.
5. BALANCE (E) RETURN GRILLE TO VOLUME SHOWN.
6. RELOCATE (E) SUPPLY GRILLE TO LOCATION SHOWN.
7. PROVIDE (N) THERMOSTAT WHERE SHOWN. PROVIDE WIRING BACK TO (E) TEMPERATURE CONTROL PANEL.
8. RELOCATE (E) THERMOSTAT TO WHERE SHOWN. ADJUST WIRING ABOVE CEILING AS REQUIRED. REFER TO SHEET M1.10.
9. PROVIDE (N) TEMPERATURE SENSOR IN PLACE OF DEMOLISHED THERMOSTAT. USE (E) WIRING.
10. PROVIDE (N) TEMPERATURE SENSOR WHERE SHOWN. PROVIDE WIRING BACK TO (E) TEMPERATURE CONTROL PANEL.

GENERAL NOTES

A. BRANCH DUCTS PROVIDING AIR TO ONLY HALLWAY/CORRIDOR SUPPLY DIFFUSERS OR RETURN GRILLES DO NOT NEED TO BE PROVIDED WITH ACOUSTICAL LINER.



1 FIRST FLOOR EAST MECHANICAL DUCTWORK PLAN

SCALE: 1/8" = 1'

	ISSUES

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VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

FIRST FLOOR EAST
MECHANICAL
DUCTWORK PLAN

Date: 12/29/2016
Scale: 1/8"=1'-0"
Drawn: _
Job: 16SCC01
Sheet M2.10
Of . Sheets

1 FIRST FLOOR WEST MECHANICAL DUCTWORK PLAN

SCALE: 1/8" = 1'

SHEET NOTES

1. BALANCE (E) SUPPLY DIFFUSER TO VOLUME SHOWN.
2. BALANCE (E) RETURN GRILLE TO VOLUME SHOWN.
3. PROVIDE (N) TEMPERATURE SENSOR IN PLACE OF DEMOLISHED THERMOSTAT. USE (E) WIRING.
4. PROVIDE (N) TEMPERATURE SENSOR WHERE SHOWN. PROVIDE WIRING BACK TO (E) TEMPERATURE CONTROL PANEL.

	ISSUES

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REGISTERED PROFESSIONAL ENGINEER JAMES DYER NO. 25378 REN. 9-30-18 MECHANICAL STATE OF CALIFORNIA

SOLANO COMMUNITY COLLEGE DISTRICT
VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

FIRST FLOOR WEST
MECHANICAL
DUCTWORK PLAN

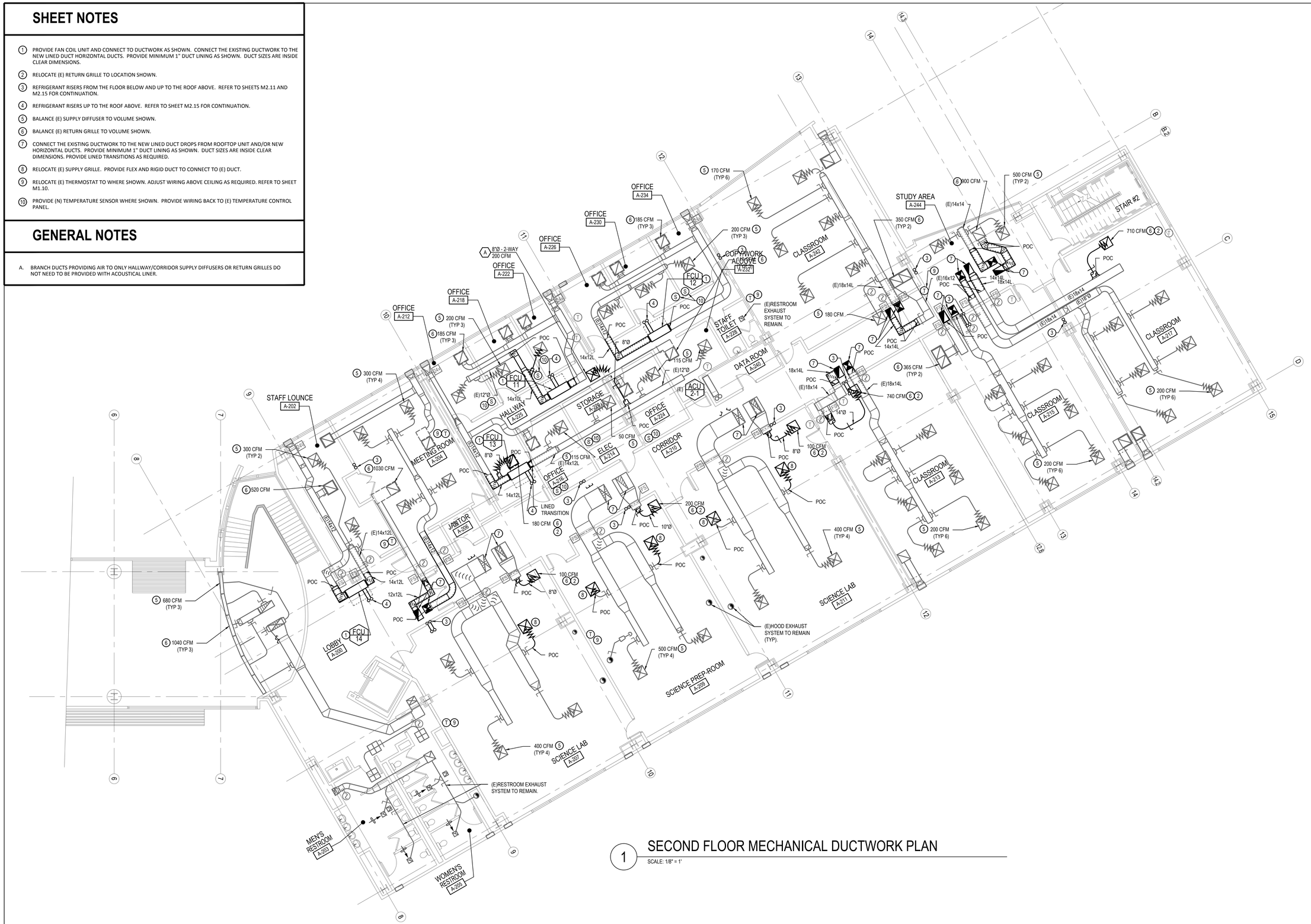
Date: 12/29/2016
Scale: 1/8"=1'-0"
Drawn: -
Job: 16SCC01
Sheet M2.11
Of . Sheets

SHEET NOTES

1. PROVIDE FAN COIL UNIT AND CONNECT TO DUCTWORK AS SHOWN. CONNECT THE EXISTING DUCTWORK TO THE NEW LINED DUCT HORIZONTAL DUCTS. PROVIDE MINIMUM 1" DUCT LINING AS SHOWN. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS.
2. RELOCATE (E) RETURN GRILLE TO LOCATION SHOWN.
3. REFRIGERANT RISERS FROM THE FLOOR BELOW AND UP TO THE ROOF ABOVE. REFER TO SHEETS M2.11 AND M2.15 FOR CONTINUATION.
4. REFRIGERANT RISERS UP TO THE ROOF ABOVE. REFER TO SHEET M2.15 FOR CONTINUATION.
5. BALANCE (E) SUPPLY DIFFUSER TO VOLUME SHOWN.
6. BALANCE (E) RETURN GRILLE TO VOLUME SHOWN.
7. CONNECT THE EXISTING DUCTWORK TO THE NEW LINED DUCT DROPS FROM ROOFTOP UNIT AND/OR NEW HORIZONTAL DUCTS. PROVIDE MINIMUM 1" DUCT LINING AS SHOWN. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS. PROVIDE LINED TRANSITIONS AS REQUIRED.
8. RELOCATE (E) SUPPLY GRILLE. PROVIDE FLEX AND RIGID DUCT TO CONNECT TO (E) DUCT.
9. RELOCATE (E) THERMOSTAT TO WHERE SHOWN. ADJUST WIRING ABOVE CEILING AS REQUIRED. REFER TO SHEET M1.10.
10. PROVIDE (N) TEMPERATURE SENSOR WHERE SHOWN. PROVIDE WIRING BACK TO (E) TEMPERATURE CONTROL PANEL.

GENERAL NOTES

A. BRANCH DUCTS PROVIDING AIR TO ONLY HALLWAY/CORRIDOR SUPPLY DIFFUSERS OR RETURN GRILLES DO NOT NEED TO BE PROVIDED WITH ACOUSTICAL LINER.



1 SECOND FLOOR MECHANICAL DUCTWORK PLAN

SCALE: 1/8" = 1'

	ISSUES

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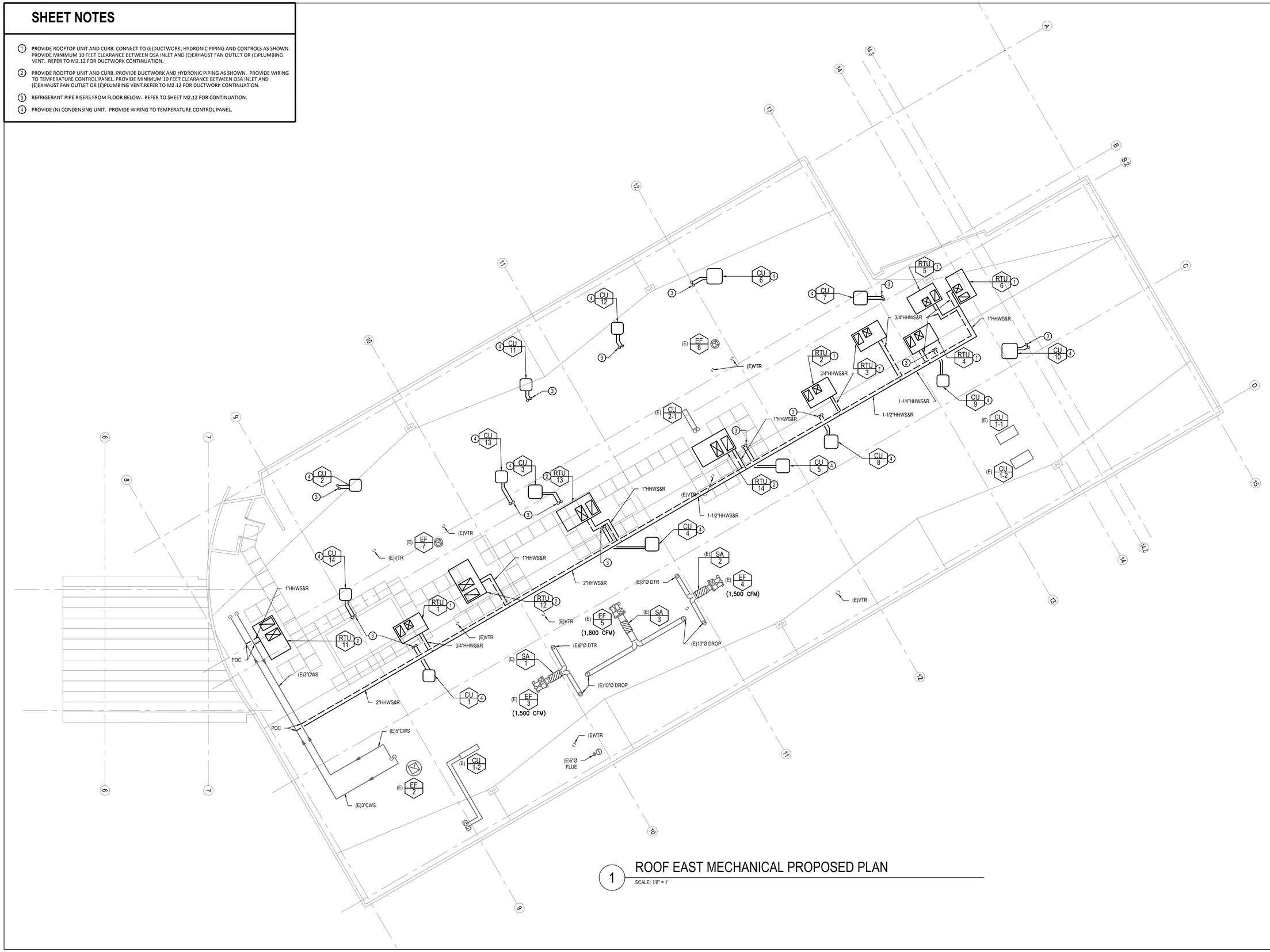
SECOND FLOOR MECHANICAL DUCTWORK PLAN

Date: 12/29/2016
Scale: 1/8"=1'-0"
Drawn: _
Job: 16SCC01
Sheet M2.12
Of . Sheets

SHEET NOTES

1. PROVIDE ROOFTOP UNIT AND CURB. CONNECT TO (E)DUCTWORK, HYDRONIC PIPING AND CONTROLS AS SHOWN. PROVIDE MINIMUM 10 FEET CLEARANCE BETWEEN OSA INLET AND (E)EXHAUST FAN OUTLET OR (E)PLUMBING VENT. REFER TO M2.12 FOR DUCTWORK CONTINUATION.
2. PROVIDE ROOFTOP UNIT AND CURB. PROVIDE DUCTWORK AND HYDRONIC PIPING AS SHOWN. PROVIDE WIRING TO TEMPERATURE CONTROL PANEL. PROVIDE MINIMUM 10 FEET CLEARANCE BETWEEN OSA INLET AND (E)EXHAUST FAN OUTLET OR (E)PLUMBING VENT.REFER TO M2.12 FOR DUCTWORK CONTINUATION.
3. REFRIGERANT PIPE RISERS FROM FLOOR BELOW. REFER TO SHEET M2.12 FOR CONTINUATION.
4. PROVIDE (N) CONDENSING UNIT. PROVIDE WIRING TO TEMPERATURE CONTROL PANEL.



1 ROOF EAST MECHANICAL PROPOSED PLAN

SCALE: 1/8" = 1'

	ISSUES

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ROOF EAST
MECHANICAL
PROPOSED PLAN

Date:	12/29/2016
Scale:	1/8"=1'-0"
Drawn:	-
Job:	16SCC01
Sheet	M2.13
Of	Sheets

SHEET NOTES

1. PROVIDE ROOFTOP UNIT AND CURB. CONNECT TO DUCTWORK AND HYDRONIC PIPING AS SHOWN. REFER TO M2.12 FOR DUCTWORK CONTINUATION. PROVIDE MINIMUM 10 FEET CLEARANCE BETWEEN OSA INLET AND (E)EXHAUST FAN OUTLET OR PLUMBING VENT THRU ROOF.

1 ROOF WEST MECHANICAL PROPOSED PLAN

SCALE: 1/8" = 1'

	ISSUES

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ROOF WEST
MECHANICAL
PROPSED PLAN

Date: 12/29/2016

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

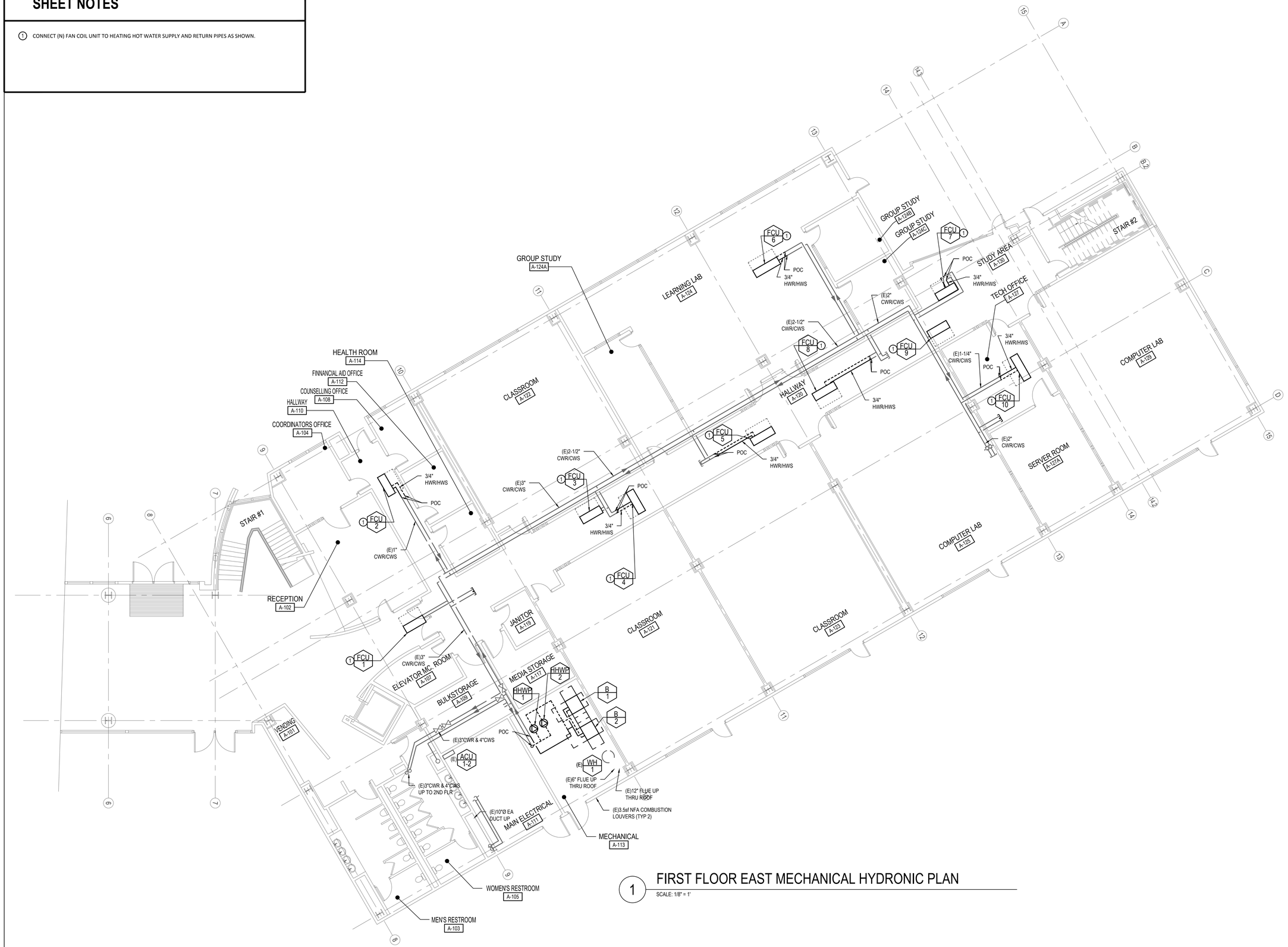
Drawn: -

Job: 16SCC01

Sheet
M2.14
Of . Sheets

SHEET NOTES

1. CONNECT (N) FAN COIL UNIT TO HEATING HOT WATER SUPPLY AND RETURN PIPES AS SHOWN.



1 FIRST FLOOR EAST MECHANICAL HYDRONIC PLAN

SCALE: 1/8" = 1'

	ISSUES

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VALLEJO CENTER
MECHANICAL EQUIPMENT REPLACEMENT

FIRST FLOOR EAST
MECHANICAL
HYDRONIC PLAN

Date: 12/29/2016
Scale: 1/8"=1'-0"
Drawn: _
Job: 16SCC01
Sheet M3.10
Of . Sheets

1 FIRST FLOOR WEST MECHANICAL HYDRONIC PLAN

SCALE: 1/8" = 1'

	ISSUES

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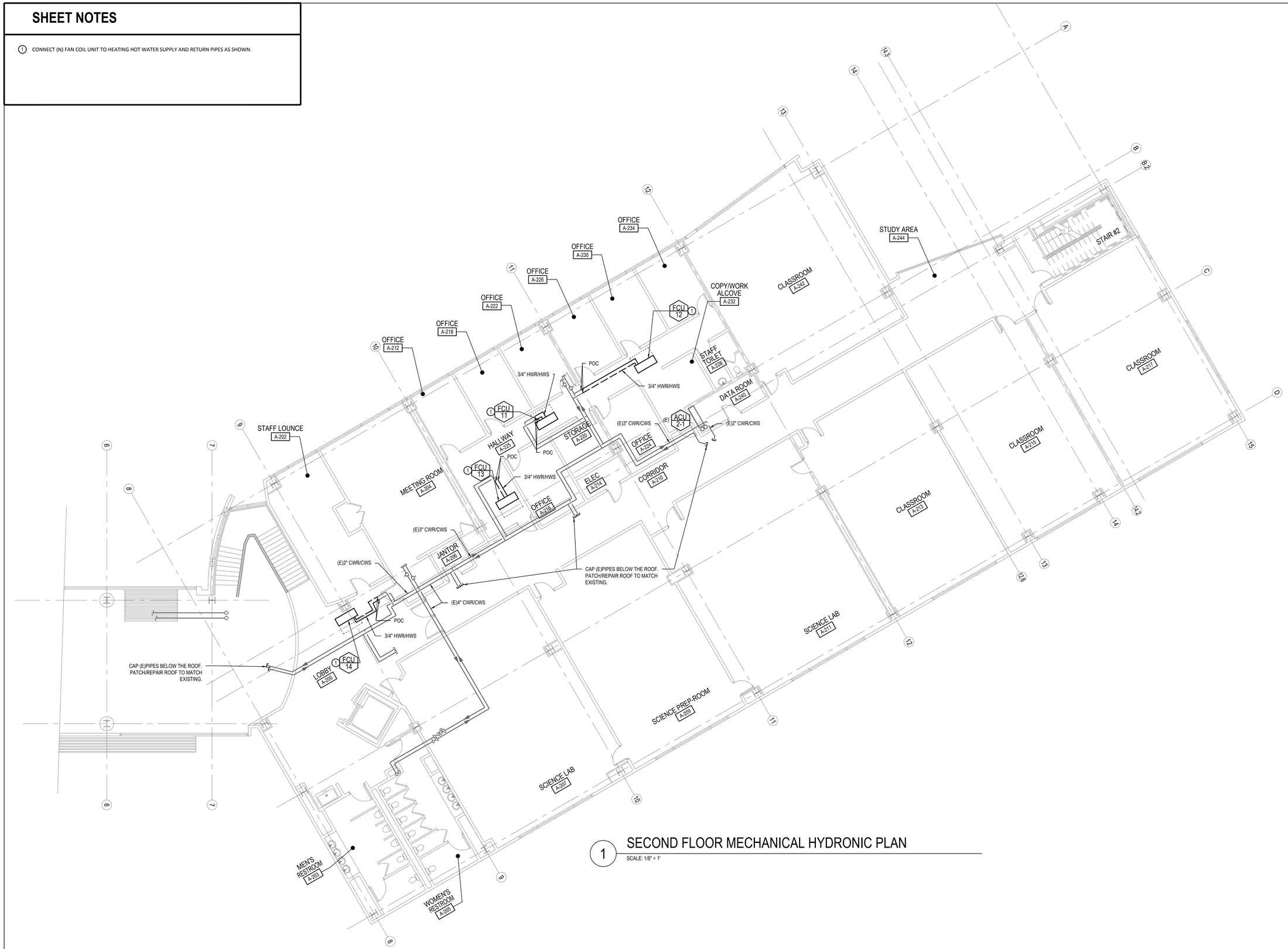
FIRST FLOOR WEST
MECHANICAL
DUCTWORK PLAN

Date: 12/29/2016
Scale: 1/8"=1'-0"
Drawn: -
Job: 16SCC01
Sheet M3.11
Of . Sheets

SHEET NOTES

1. CONNECT (N) FAN COIL UNIT TO HEATING HOT WATER SUPPLY AND RETURN PIPES AS SHOWN.



1 SECOND FLOOR MECHANICAL HYDRONIC PLAN

SCALE: 1/8" = 1'

	ISSUES

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SECOND FLOOR
MECHANICAL
HYDRONIC PLAN

Date:	12/29/2016
Scale:	1/8"=1'-0"
Drawn:	_
Job:	16SCC01
Sheet	M3.12
Of	. Sheets