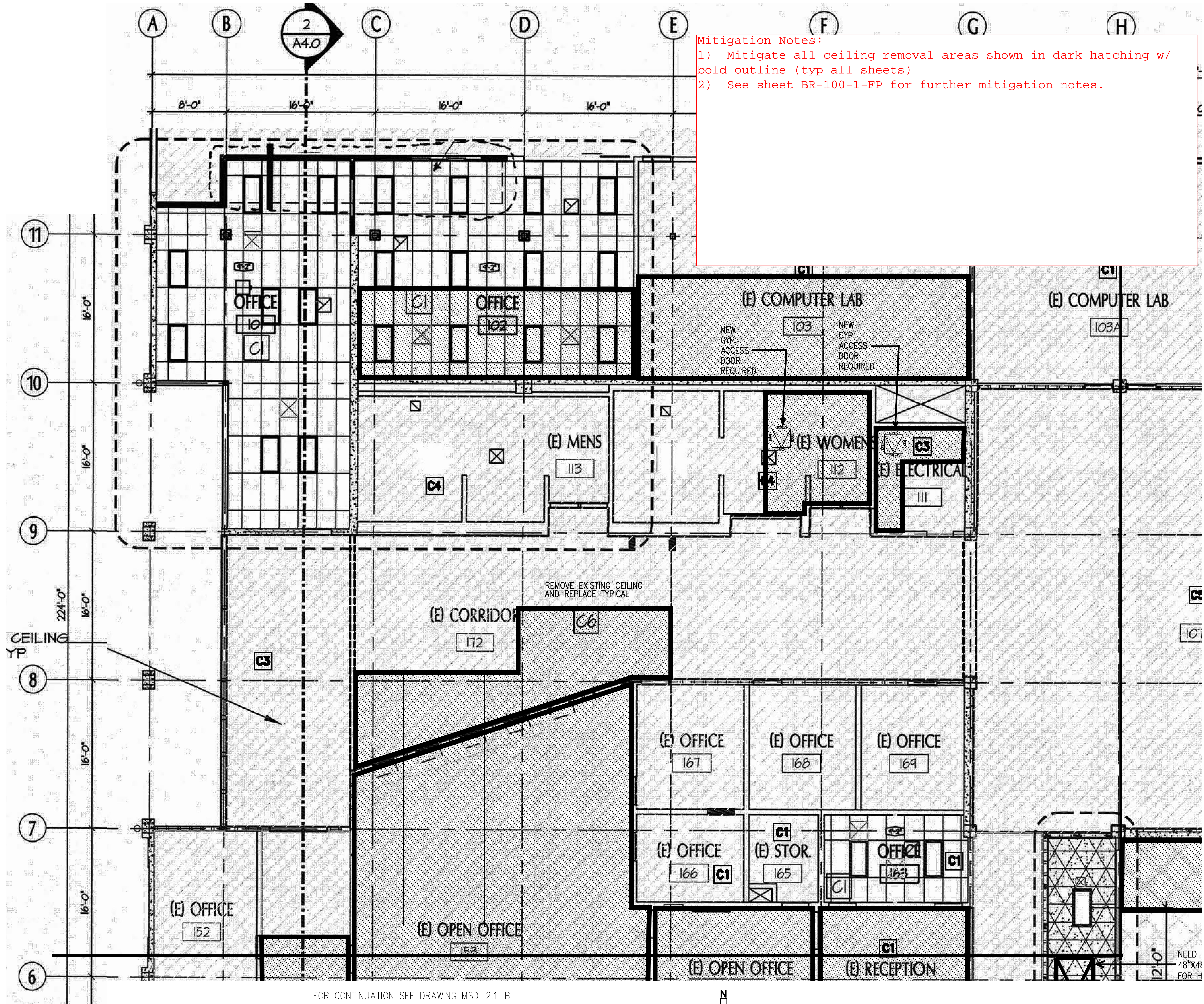
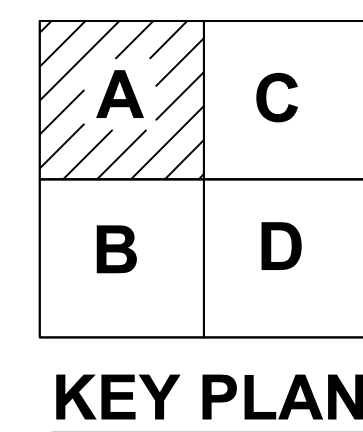
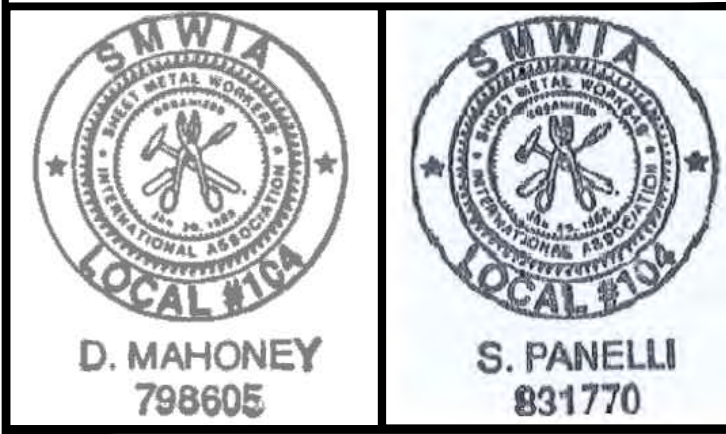


C:\Work\Design\SCC\MSD2.1A\HVAC Floor Plan.dwg 10/03/2014 08:04:20



Mitigation Notes:
1) Mitigate all ceiling removal areas shown in dark hatching w/ bold outline (typ all sheets)
2) See sheet BR-100-1-FP for further mitigation notes.

Peterson
MECHANICAL INC.
P.O. BOX 450
21819 EIGHTH STREET EAST
SONOMA, CA 95476
(707)938-8481 FAX: (707)938-1437
CA. LIC. # 171486



- KEYNOTES:
- # SCOPE
 - C1 2X4 SUSPENDED CEILING
 - C2 (N) 1-HR. RATED GYPBD CEILING (SHAFT WALL)
 - C3 GYPBD CEILING
 - C4 GYPBD CEILING W/ GLUE ON TILE
 - C5 WAFFLE CONCRETE
 - C6 2X4 SUSPENDED CEILING 1 HR. RATED
 - C7 GYPBD CEILING OVER 3/4" PLYWD SHEATHING
 - C8 GYPBD CEILING TEXTURED

COORDINATION		
CONTRACTOR	INITIALS	DATE
GENERAL		
HVAC DUCTWORK		
HVAC PIPING		
PLUMBING		
FIRE SPRINKLER		
ELECTRICAL		
CONTROLS		
REVISION	DATE	DESCRIPTION
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PROJECT NAME:

SOLANO COMMUNITY COLLEGE
BUILDING 100
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA 94534

SHEET NAME:

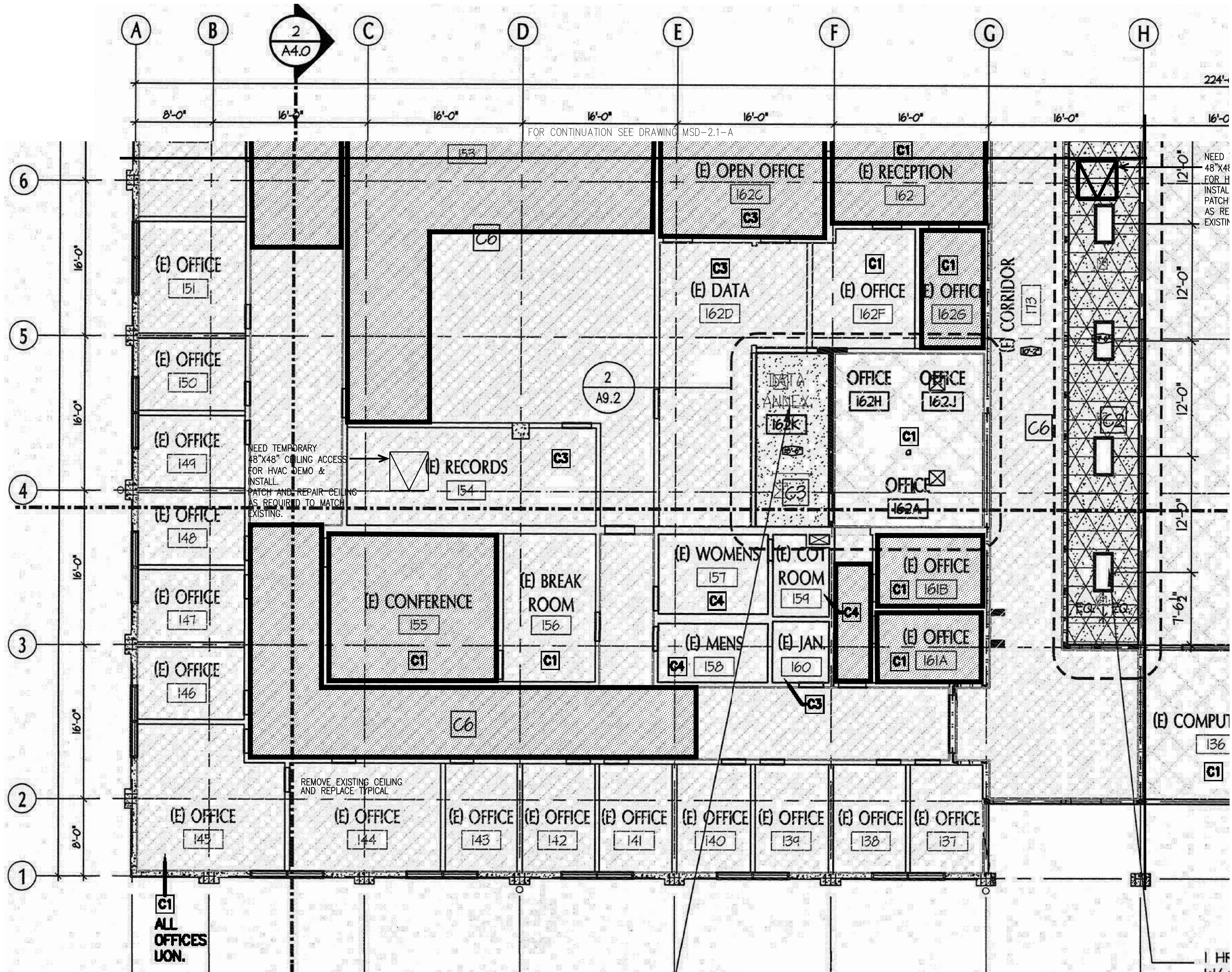
HVAC 1ST FLOOR PLAN

DATE:	7-14-14	SCALE:	1/4"=1'-0"
DRAWN BY:	SPP	SHEET NO.:	66580
CHECKED BY:		SHEET REFERENCE:	

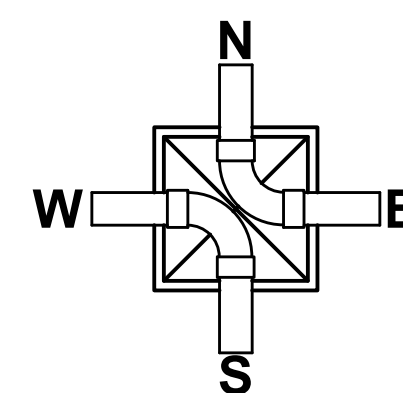
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PLOT DATE: 10/03/14

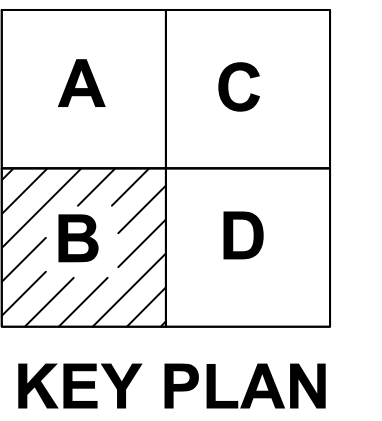
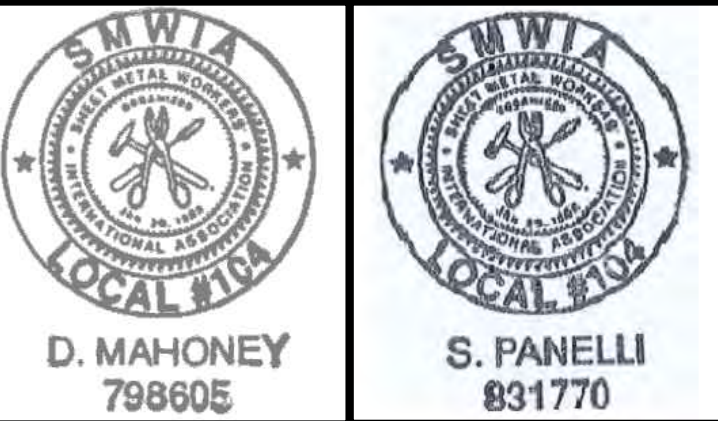
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1 HVAC FLOOR PLAN
1/4"=1'-0"



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(707)938-8481 FAX: (707)938-1437
CA. LIC. # 171486



- KEYNOTES:
- # SCOPE
 - C1 2X4 SUSPENDED CEILING
 - C2 (N) 1-HR RATED GYPBD CEILING (SHAFT WALL)
 - C3 GYPBD CEILING
 - C4 GYPBD CEILING W/ GLUE ON TILE
 - C5 WAFFLE CONCRETE
 - C6 2X4 SUSPENDED CEILING 1 HR RATED
 - C7 GYPBD CEILING OVER 3/4" PLYWD SHEATHING
 - C8 GYPBD CEILING TEXTURED

COORDINATION		
CONTRACTOR	INITIALS	DATE
GENERAL		
HVAC DUCTWORK		
HVAC PIPING		
PLUMBING		
FIRE SPRINKLER		
ELECTRICAL		
CONTROLS		
REVISION	DATE	DESCRIPTION
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PROJECT NAME:

SOLANO COMMUNITY COLLEGE
BUILDING 100
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA 94534

SHEET NAME:

HVAC 1ST FLOOR PLAN

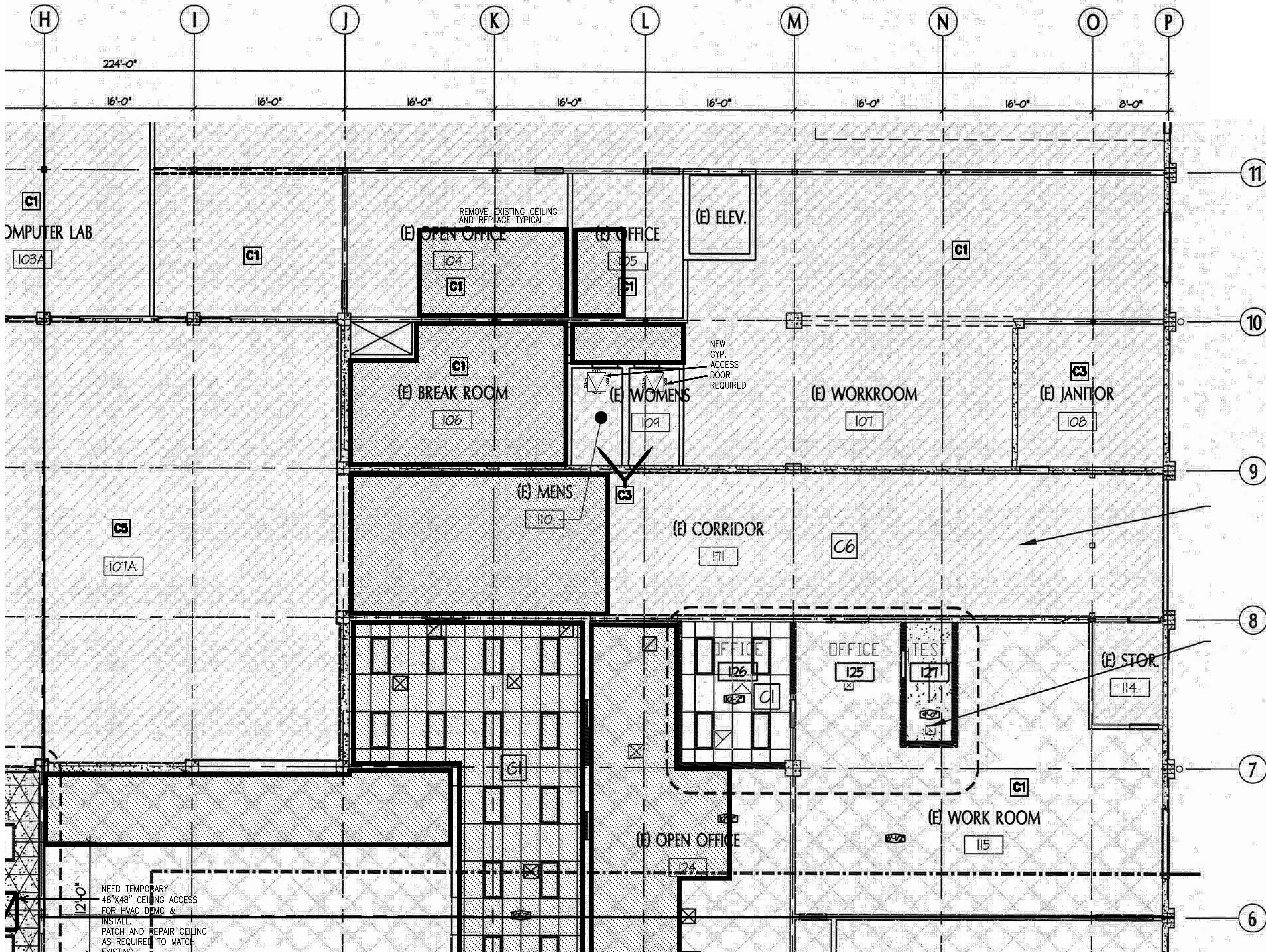
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DRAWN BY: SPP JOB NO: 66580
CHECKED BY: SHEET REFERENCE:

MSD2.1B

PLOT DATE: 10/03/14

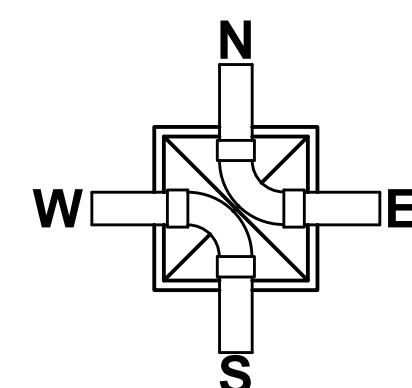
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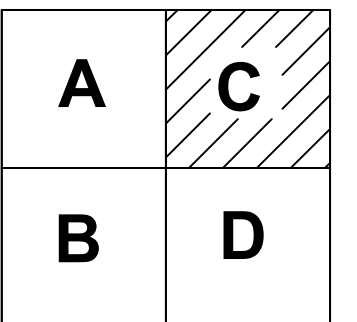
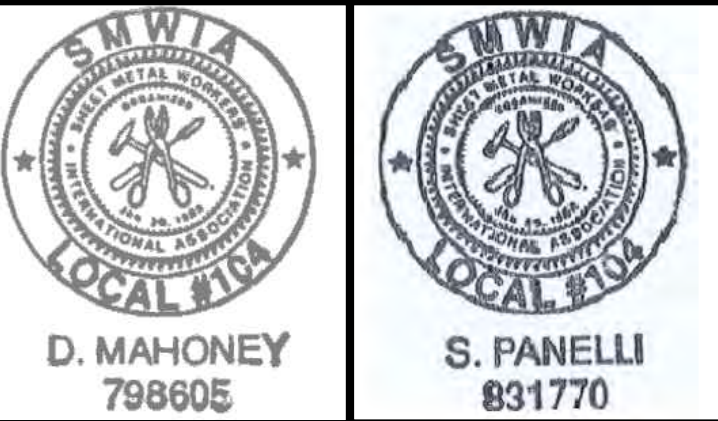


FOR CONTINUATION SEE DRAWING MSD-2.1-D

1 HVAC FLOOR PLAN
1/4"=1'-0"



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MECHANICAL INC.
P.O. BOX 450
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(707)938-8481 FAX: (707)938-1437
CA. LIC. # 171486



KEY PLAN

- KEYNOTES:
- # SCOPE
 - C1 2X4 SUSPENDED CEILING
 - C2 (N) 1-HR RATED GYPBD CEILING (SHAFT WALL)
 - C3 GYPBD CEILING
 - C4 GYPBD CEILING W/ GLUE ON TILE
 - C5 WAFFLE CONCRETE
 - C6 2X4 SUSPENDED CEILING 1 HR RATED
 - C7 GYPBD CEILING OVER 3/4" PLYWD SHEATHING
 - C8 GYPBD CEILING TEXTURED

COORDINATION		
CONTRACTOR	INITIALS	DATE
GENERAL		
HVAC DUCTWORK		
PLUMBING		
FIRE SPRINKLER		
ELECTRICAL		
CONTROLS		
REVISION	DATE	DESCRIPTION
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PROJECT NAME:

SOLANO COMMUNITY COLLEGE
BUILDING 100
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA 94534

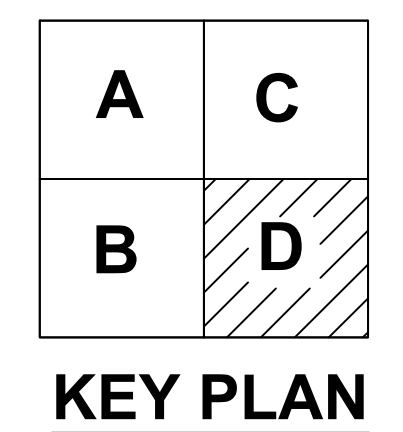
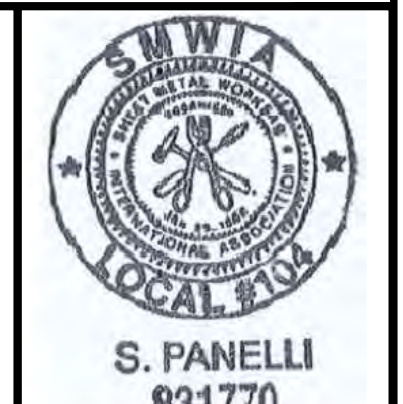
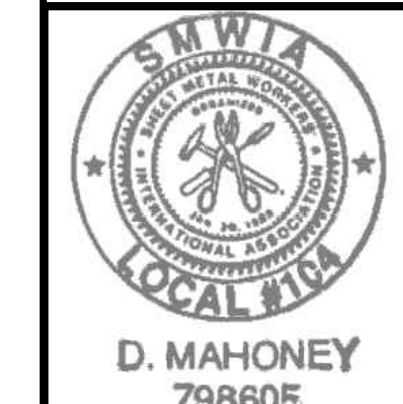
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HVAC 1ST FLOOR PLAN

DATE: 7-14-14 SCALE: 1/4"=1'-0"
DRAWN BY: SPP JOB NO: 66580
CHECKED BY: SHEET REFERENCE:

MSD2.1C

PLOT DATE: 10/03/14



- KEYNOTES:**
- # SCOPE
 - C1 2X4 SUSPENDED CEILING
 - C2 (N) 1-HR RATED GYPBD CEILING (SHAFT WALL)
 - C3 GYPBD CEILING
 - C4 GYPBD CEILING W/ GLUE ON TILE
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 - C6 2X4 SUSPENDED CEILING 1 HR RATED
 - C7 GYPBD CEILING OVER 3/4" PLYWD SHEATHING
 - C8 GYPBD CEILING TEXTURED

COORDINATION		
CONTRACTOR	INITIALS	DATE
GENERAL		
HVAC DUCTWORK		
HVAC PIPING		
PLUMBING		
FIRE SPRINKLER		
ELECTRICAL		
CONTROLS		
REVISION	DATE	DESCRIPTION
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PROJECT NAME:

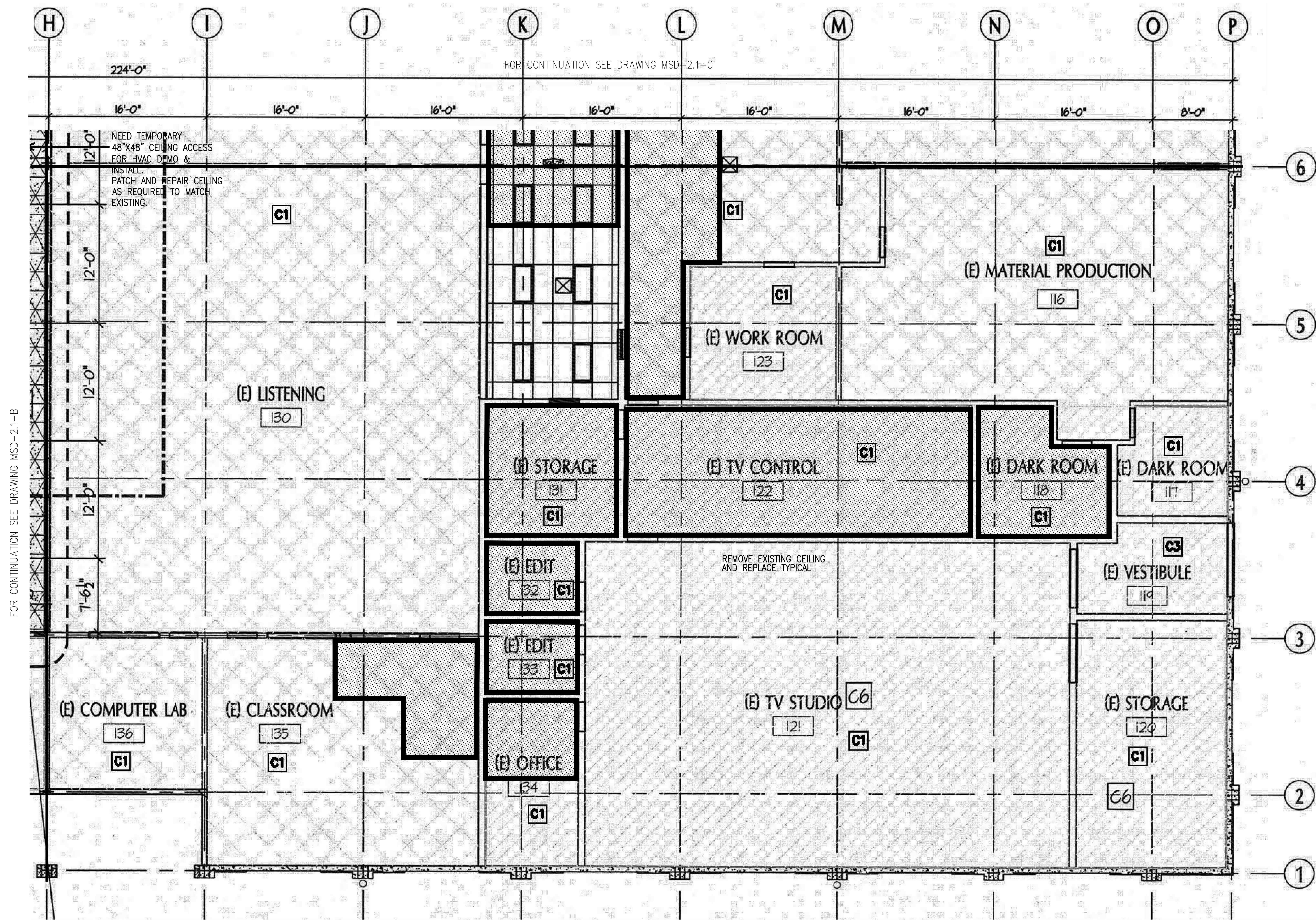
SOLANO COMMUNITY COLLEGE
BUILDING 100
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA 94534

SHEET NAME:

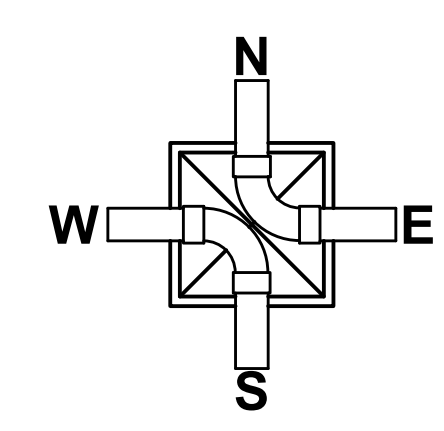
HVAC 1ST FLOOR PLAN

DATE:	7-14-14	SCALE:	1/4"=1'-0"
DRAWN BY:	SPP	JOB NO:	66580
CHECKED BY:		SHEET REFERENCE:	

MSD2.1D

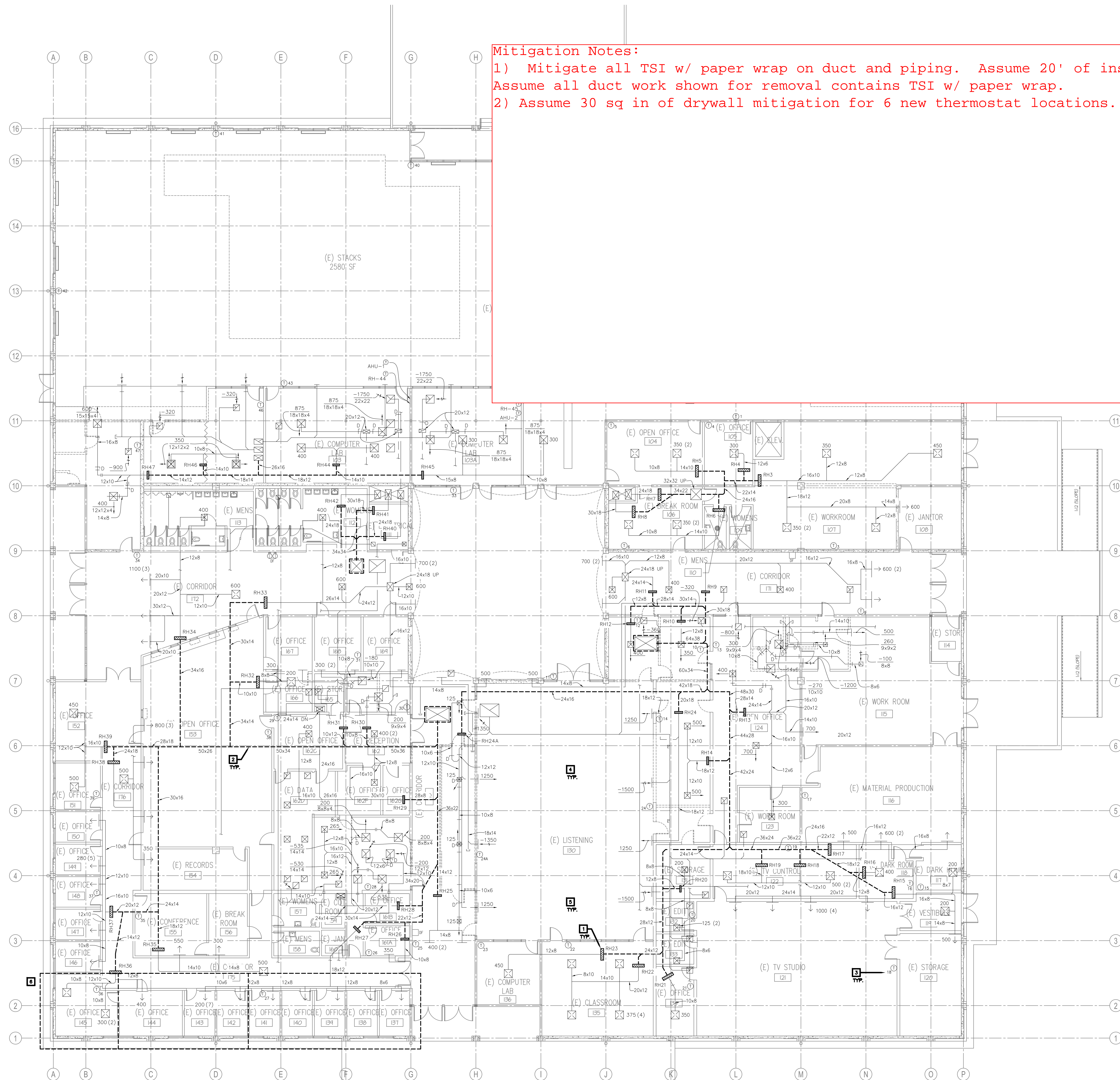


1 HVAC FLOOR PLAN
1/4"=1'-0"



PLOT SCALE:

LAST REVISION:



Mitigation Notes:

1) Mitigate all TSI w/ paper wrap on duct and piping. Assume 20' of insulated piping per coil. Assume all duct work shown for removal contains TSI w/ paper wrap.
2) Assume 30 sq in of drywall mitigation for 6 new thermostat locations.

KEYNOTES:

- | # | SCOPE |
|---|--|
| 1 | REMOVE ALL EXISTING REHEAT COILS AND ASSOCIATED VALVE/PIPING/DUCTWORK AND INSTALL NEW VAV BOXES WITH NEW VALVES AND REHEAT COILS TO TURN CONSTANT VOLUME SYSTEM INTO A VAV SYSTEM. INTERFACE WITH EMS. |
| 2 | REPLACE EXISTING SUPPLY AIR DUCT BOARD UPSTREAM OF THE NEW VAV BOXES WITH GALVANIZED SHEET METAL. |
| 3 | PROVIDE NEW THERMOSTATS AT EXISTING LOCATIONS. INTERFACE WITH EMS. |
| 4 | REMOVE CEILINGS AS REQUIRED FOR REMOVAL AND REPLACEMENT OF HVAC COMPONENTS. PATCH AND REPAIR ANY FLOORS, WALLS AND CEILINGS THAT ARE DAMAGED AS A RESULT OF THIS WORK. FINISHED WORK SHOULD MATCH EXISTING IN STYLE AND COLOR. |
| 5 | REBALANCE HVAC SYSTEM. |
| 6 | REDESIGN THIS AREA SO THAT THE CORNER OFFICE IS ON ITS OWN VAV BOX. OFFICE 141-144 ON THEIR OWN BOX AND 137-140 ON THEIR OWN BOX. |

SEE SCHEDULE FOR ADDITIONAL INFORMATION

RFP/Q DOCUMENTS

NOT FOR CONSTRUCTION

BUILDING:

SHEET TITLE:

MECHANICAL FLOOR
PLAN - BUILDING 100

SCALE: AS SHOWN

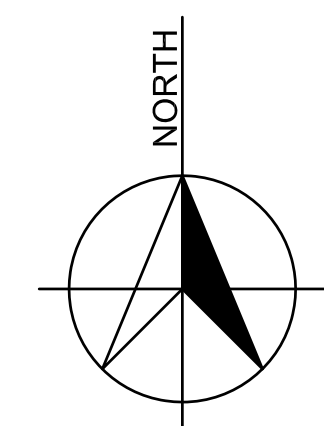
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JOB NO.

3060E4

SHEET

BR-100-1-FP



$$3/32'' = 1'-0''$$

1 BLDG 100 - FLOOR PLAN

PLT SCALE:

EXISTING HEATING COIL SCHEDULE									
MARK	MODEL	AIR FLOW (CFM)	FACE AREA (SQ. FT.)	EAT (DB)	LAT (DB)	CAPACITY (MBH) SENS.	FLOW (GPM)	CONN. SIZE (IN)	REMARKS
RH 01		8600	15	59	83	250.0	18.7	1 1/2	1,2,3,4,5
RH 02		3500	6	59	83	91.0	6.1	1	1,2,3,4,5
RH 03		2100	3	59	85	51.0	3.4	3/4	1,2,3,4,5
RH 04		300	0.5	59	82	7.5	0.8	3/4	1,2,3,4,5
RH 05		700	1.5	59	81	16.7	1.1	3/4	1,2,3,4,5
RH 06		700	1.5	59	81	16.7	1.1	3/4	1,2,3,4,5
RH 07		3000	5	59	96	120.0	8	1 1/4	1,2,3,4,5
RH 08		4000	7	59	96	160.0	10.7	1 1/4	1,2,3,4,5
RH 09		1600	3	59	88	50.0	3.4	3/4	1,2,3,4,5
RH 10		350	0.75	59	81	8.3	0.8	3/4	1,2,3,4,5
RH 11		2800	5	59	82	73.0	5	1 1/4	1,2,3,4,5
RH 12		400	0.75	59	81	9.5	0.8	3/4	1,2,3,4,5
RH 13		3160	5.25	59	85	84.0	5.6	1 1/4	1,2,3,4,5
RH 14		1000	2	59	82	25.0	1.7	3/4	1,2,3,4,5
RH 15		900	1.5	59	94	34.0	2.3	3/4	1,2,3,4,5
RH 16		400	0.75	59	80	9.1	0.8	3/4	1,2,3,4,5
RH 17		1700	3	59	85	46.0	3.2	3/4	1,2,3,4,5
RH 18		4000	7	59	83	104.0	6.9	1	1,2,3,4,5
RH 19		1000	2	59	81	23.8	1.6	3/4	1,2,3,4,5
RH 20		450	0.75	59	83	11.7	0.8	3/4	1,2,3,4,5
RH 21		350	0.75	59	89	11.3	0.8	3/4	1,2,3,4,5
RH 22		1500	2.5	59	85	42.0	2.8	3/4	1,2,3,4,5
RH 23		450	1	59	94	17.0	1.2	3/4	1,2,3,4,5
RH 24		2500	4.5	59	82	65.0	4.5	1	1,2,3,4,5
RH 24A		2500	4.5	59	82	65.0	4.5	1	1,2,3,4,5

REMARKS:
1. REPLACE COIL WITH NEW SINGLE DUCT VAV BOX WITH HOT WATER COILS.
2. WATER TEMPERATURE DROP 180F - 150F
3. ALL NEW THERMOSTATS
4. MAX FACE VELOCITY 600FPM
5. MAX SP DROP 0.10 (IN WC)

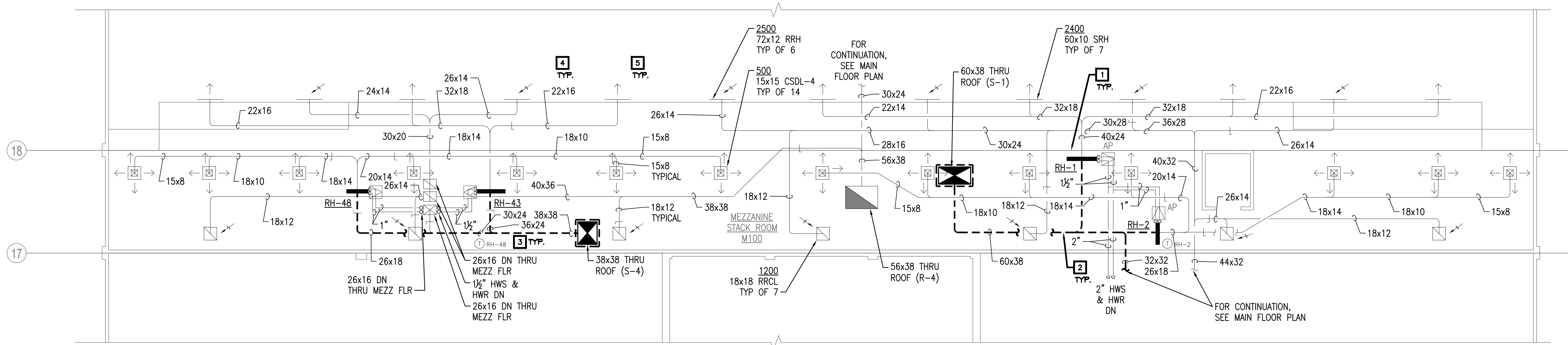
EXISTING HEATING COIL SCHEDULE									
MARK	MODEL	AIR FLOW (CFM)	FACE AREA (SQ. FT.)	EAT (DB)	LAT (DB)	CAPACITY (MBH) SENS.	FLOW (GPM)	CONN. SIZE (IN)	REMARKS
RH 25		1200	1.5	59	93	29.40	2	3/4	1,2,3,4,5
RH 26		350	0.75	59	83	9.10	0.8	3/4	1,2,3,4,5
RH 27		1400	2.5	59	96	66.00	3.7	1	1,2,3,4,5
RH 28		4000	7	59	80	91.00	6.1	1 1/4	1,2,3,4,5
RH 29		4000	7	59	80	91.00	6.1	1 1/4	1,2,3,4,5
RH 30		250	0.5	59	83	6.60	0.8	3/4	1,2,3,4,5
RH 31		600	1.13	59	82	16.00	1	3/4	1,2,3,4,5
RH 32		500	1.13	59	82	12.50	0.8	3/4	1,2,3,4,5
RH 33		4000	7	59	82	100.00	6.7	1 1/4	1,2,3,4,5
RH 34		4500	8	59	85	126.00	8.4	1 1/4	1,2,3,4,5
RH 35		1350	2.5	59	82	33.50	2.3	3/4	1,2,3,4,5
RH 36		1000	2	59	96	40.00	2.7	3/4	1,2,3,4,5
RH 37		1500	2.5	59	89	49.00	3.3	3/4	1,2,3,4,5
RH 38		3250	6	59	84	68.00	5.9	1 1/4	1,2,3,4,5
RH 39		950	2	59	92	33.80	2.3	3/4	1,2,3,4,5
RH 40		3000	5.25	59	96	120.00	8	1 1/4	1,2,3,4,5
RH 41		4000	7	59	96	160.00	10.7	1 1/2	1,2,3,4,5
RH 42		3000	5.25	59	96	120.00	8	1 1/4	1,2,3,4,5
RH 43		7200	13.75	59	83	187.00	12.5	1 1/2	1,2,3,4,5
RH 44		800	1.5	59	83	20.80	1.4	3/4	1,2,3,4,5
RH 45		600	1.13	59	83	16.50	1.1	3/4	1,2,3,4,5
RH 46		700	1.5	59	83	18.20	1.2	3/4	1,2,3,4,5
RH 47		1000	2	59	90	33.50	2.3	3/4	1,2,3,4,5
RH 48		3500	6	59	83	91.00	6.1	1 1/4	1,2,3,4,5

REMARKS:
1. REPLACE COIL WITH NEW SINGLE DUCT VAV BOX WITH HOT WATER COILS.
2. WATER TEMPERATURE DROP 180F - 150F
3. ALL NEW THERMOSTATS
4. MAX FACE VELOCITY 600FPM
5. MAX SP DROP 0.10 (IN WC)

Mitigation notes:
1) Mitigate all "pop corn" ceiling and drywall in mezzanine area.
2) Mitigate all TSI paper wrap insulation on duct work and piping shown for removal. Assume 20' of piping per coil.

- KEYNOTES:
- # SCOPE
- 1 REMOVE ALL EXISTING REHEAT COILS AND ASSOCIATED VALVES/PIPING/DUCTWORK AND INSTALL NEW VAV BOXES WITH NEW VALVES AND REHEAT COILS TO TURN CONSTANT VOLUME SYSTEM INTO A VAV SYSTEM. INTERFACE WITH EMS.
- 2 REPLACE EXISTING SUPPLY AIR DUCT BOARD UPSTREAM OF THE NEW VAV BOXES WITH GALVANIZED SHEET METAL.
- 3 PROVIDE NEW THERMOSTATS AT EXISTING LOCATIONS. INTERFACE WITH EMS.
- 4 REMOVE CEILINGS AS REQUIRED FOR REMOVAL AND REPLACEMENT OF HVAC COMPONENTS. PATCH AND REPAIR ANY FLOORS, WALLS AND CEILINGS THAT ARE DAMAGED AS A RESULT OF THIS WORK. FINISHED WORK SHOULD MATCH EXISTING IN STYLE AND COLOR.
- 5 REBALANCE HVAC SYSTEM.
- SEE SCHEDULE FOR ADDITIONAL INFORMATION

2 BLDG 100 – EXISTING REHEAT SCHEDULE



1 BLDG 100 – FLOOR PLAN
MEZZANINE

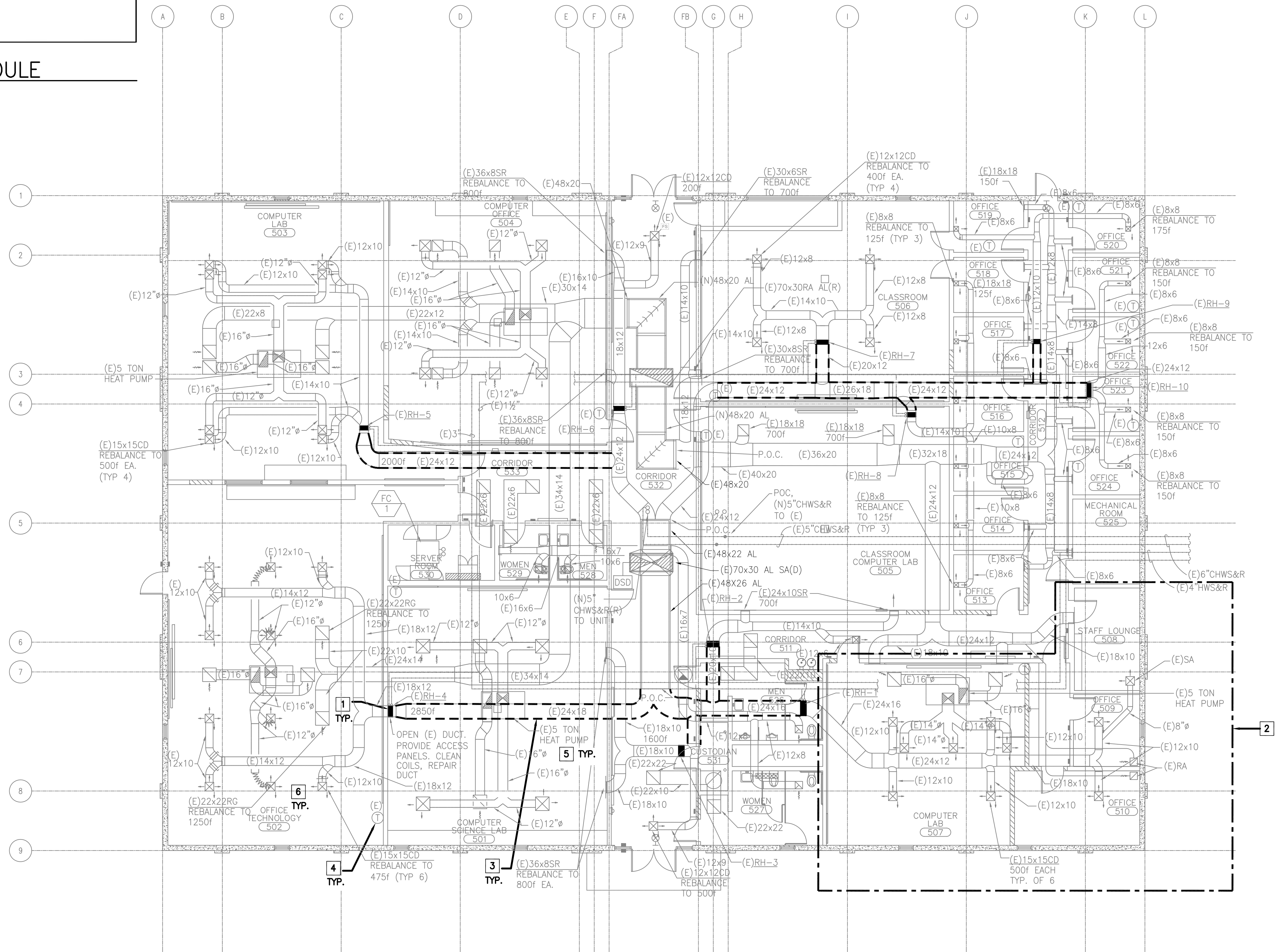
REVISIONS	
NO.	DATE

PLOT SCALE:

LAST REVISION:

EXISTING HEATING COIL SCHEDULE									
MARK	MODEL	AIR FLOW (CFM)	FACE AREA (SQ. FT.)	EAT (DB)	LAT (DB)	CAPACITY (MBH)	FLOW (GPM)	CONN. SIZE (IN)	REMARKS
						SENS.			
RH-01		3000	6	60	90	94.00	6.3	1-1/4	1,2,3,4,5
RH-02		1700	3	60	85	37.00	3.1	1	1,2,3,4,5
RH-03		2300	4.5	60	90	75.00	5	1	1,2,3,4,5
RH-04		2850	6	60	90	94.00	6.3	1-1/4	1,2,3,4,5
RH-05		2000	3.5	60	95	72.00	4.8	1	1,2,3,4,5
RH-06		2100	3.5	60	92	71.00	4.8	1	1,2,3,4,5
RH-07		1600	3	60	90	52.50	3.5	1	1,2,3,4,5
RH-08		750	1.5	60	85	24.00	1.6	3/4	1,2,3,4,5
RH-09		625	1.5	60	100	26.50	1.7	3/4	1,2,3,4,5
RH-10		600	1.5	60	102	27.30	1.8	3/4	1,2,3,4,5
REMARKS: 1. REPLACE COIL 2. WATER TEMPERATURE DROP 180F - 150F 3. ALL NEW THERMOSTATS 4. MAX FACE VELOCITY 600FPM 5. MAX SP DROP 0.10 (N. WC)									

2 BLDG 500 – EXISTING REHEAT SCHEDULE



1 BLDG 500 – FLOOR PLAN

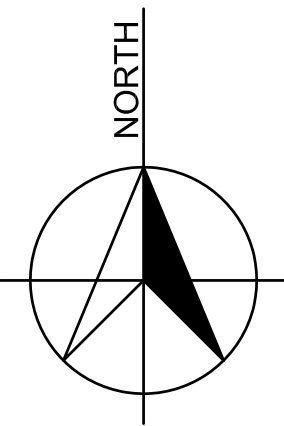
Mitigation Notes:

- 1) Mitigate all ductwork shown below, where indicated in bold black color.
- 2) Include 30sq. inches of drywall mitigation for six new t-stat locations.

KEYNOTES:

SCOPE

- 1 REMOVE ALL EXISTING REHEAT COILS AND ASSOCIATED VALVES/PIPING/DUCTWORK AND INSTALL NEW VAV BOXES WITH NEW VALVES AND REHEAT COILS TO TURN CONSTANT VOLUME SYSTEM INTO A VAV SYSTEM. INTERFACE WITH EMS.
- 2 REDESIGN HVAC IN THIS AREA SO THAT THE COMPUTER LAB 507, OFFICE 510 AND OFFICE 509 AND STAFF LOUNGE 508 HAVE THEIR OWN VAV BOXES, REHEAT COILS AND THERMOSTATS. MODIFY DUCTWORK AND PIPING ACCORDINGLY.
- 3 REPLACE EXISTING SUPPLY AIR DUCT BOARD UPSTREAM OF THE NEW VAV BOXES WITH GALVANIZED SHEET METAL.
- 4 PROVIDE NEW THERMOSTATS AT EXISTING LOCATIONS. INTERFACE WITH EMS.
- 5 REMOVE CEILINGS AS REQUIRED FOR REMOVAL AND REPLACEMENT OF HVAC COMPONENTS. PATCH AND REPAIR ANY FLOORS, WALLS AND CEILINGS THAT ARE DAMAGED AS A RESULT OF THIS WORK. FINISHED WORK SHOULD MATCH EXISTING IN STYLE AND COLOR.
- 6 REBALANCE HVAC SYSTEM.



1/8" = 1'-0"

KITCHELL

Capital Expenditure Managers
2750 Gateway Oaks Drive
Suite 300
Sacramento, CA 95833
(916) 648-9700

SOLANO COMMUNITY COLLEGE
HVAC AND EMS EFFICIENCY PROJECT IMPLEMENTATION
BRIDGING DOCUMENTS

SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA 94534

RFP/Q DOCUMENTS

NOT FOR CONSTRUCTION

BUILDING:

SHEET TITLE:

MECHANICAL FLOOR
PLAN & REHEAT
SCHEDULE – BUILDING
500

SCALE: AS SHOWN

REVISIONS

NO.	DATE	NO.	DATE

JOB NO.

3060E4

DATE

2/07/14

SHEET

BR-500-1-FP

PLOT SCALE:

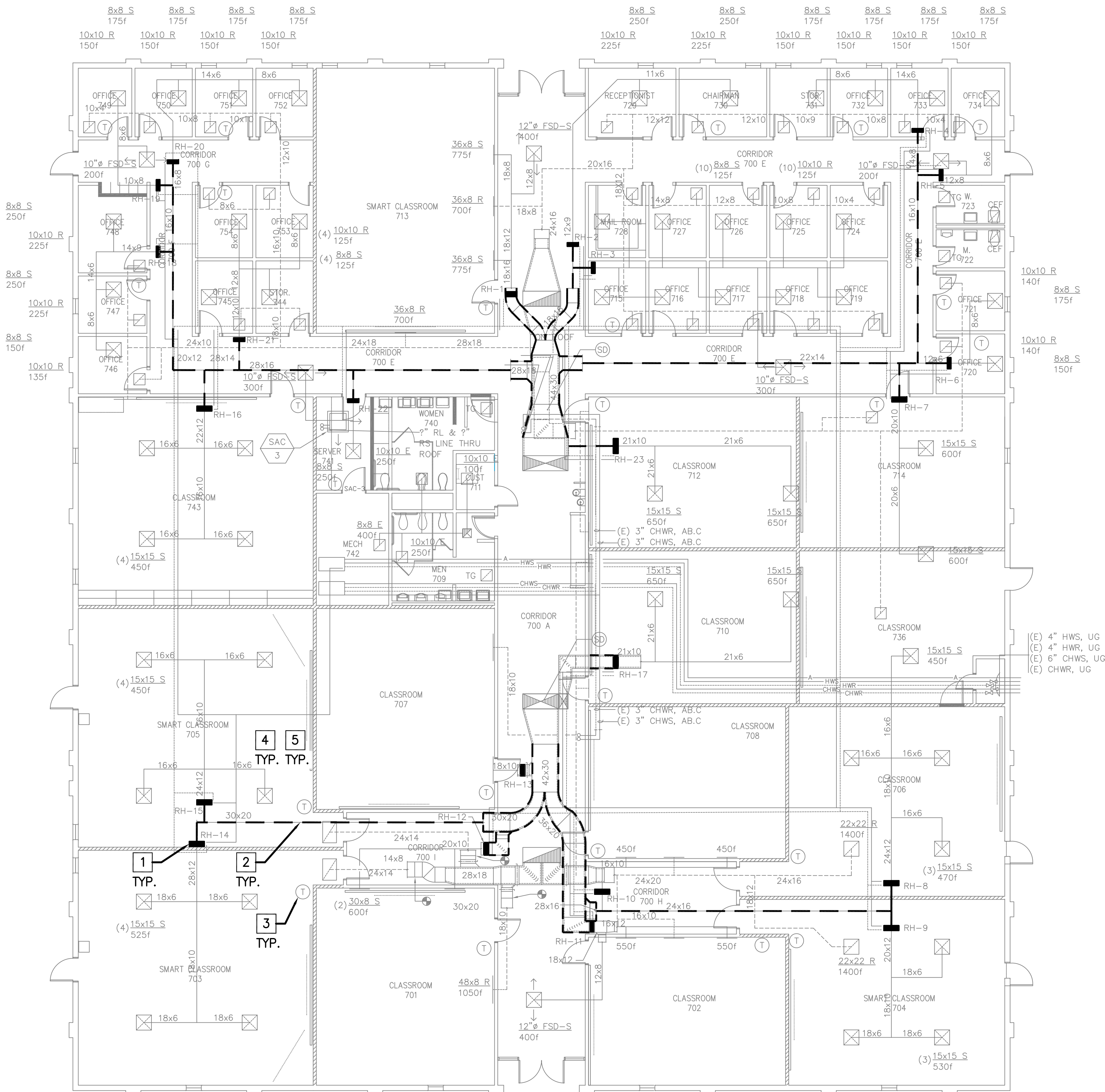
LAST REVISION:

EXISTING HEATING COIL SCHEDULE									
MARK	MODEL	AIR FLOW (CFM)	FACE AREA (SQ. FT.)	EAT (DB)	LAT (DB)	CAPACITY (MBH)	FLOW (GPM)	CONN. SIZE (IN)	REMARKS
						SENS.			
RH-01		1950	3.75	60	86	54.80	3.7	1	1,2,3,4,5
RH-02		500	1.5	60	97	20.00	1.4	3/4	1,2,3,4,5
RH-03		1550	3.75	60	85	42.00	2.8	1	1,2,3,4,5
RH-04		525	1.5	60	96	20.40	1.4	3/4	1,2,3,4,5
RH-05		375	1	60	104	17.80	1.2	3/4	1,2,3,4,5
RH-06		325	.75	60	95	12.30	0.9	3/4	1,2,3,4,5
RH-07		1200	3	60	86	33.80	2.3	1	1,2,3,4,5
RH-08		1860	3.75	60	88	50.2	3.4	1	1,2,3,4,5
RH-09		1590	3.75	60	90	51.5	3.5	1	1,2,3,4,5
RH-10		900	1.5	60	65	24.2	1.6	3/4	1,2,3,4,5
RH-11		1500	3.75	60	87	43.7	2.9	1	1,2,3,4,5
RH-12		1200	3	60	88	36.40	2.5	1	1,2,3,4,5
RH-13		1100	3	60	85	29.60	2.0	1	1,2,3,4,5
RH-14		2100	3.75	60	91	70.40	4.7	1	1,2,3,4,5
RH-15		1800	3.75	60	87	52.50	3.5	1	1,2,3,4,5
RH-16		1800	3.75	60	85	48.60	3.3	1	1,2,3,4,5
RH-17		1300	3	60	85	35.00	2.4	1	1,2,3,4,5
RH-18		650	1.5	60	91	8.40	0.8	3/4	1,2,3,4,5
RH-19		375	1	60	104	17.80	1.2	3/4	1,2,3,4,5
RH-20		525	1.13	60	96	20.40	1.4	3/4	1,2,3,4,5
RH-21		500	1.13	60	93	17.80	1.2	3/4	1,2,3,4,5
RH-22		550	1.13	60	85	14.80	1.0	3/4	1,2,3,4,5
RH-23		1300	3	60	85	35.00	2.4	1	1,2,3,4,5
REMARKS: 1. REPLACE COIL 2. WATER TEMPERATURE DROP 180F - 150F 3. ALL NEW THERMOSTATS 4. MAX FACE VELOCITY 600FPM 5. MAX SP DROP 0.10 (IN. VC)									

2 BLDG 700 - EXISTING REHEAT SCHEDULE

Mitigation Notes:

- Mitigate all ductwork shown below, where indicated in bold black line color.
- Include 16 sq. inches of drywall mitigation for two new t-stat locations.



1 BLDG 700 - FLOOR PLAN

KEYNOTES:

SCOPE

- REMOVE ALL EXISTING REHEAT COILS AND ASSOCIATED VALVES/PIPING/DUCTWORK AND INSTALL NEW VAV BOXES WITH NEW VALVES AND REHEAT COILS TO TURN CONSTANT VOLUME SYSTEM INTO A VAV SYSTEM. INTERFACE WITH EMS.
- REPLACE EXISTING SUPPLY AIR DUCT BOARD UPSTREAM OF THE NEW VAV BOXES WITH GALVANIZED SHEET METAL.
- PROVIDE NEW THERMOSTATS AT EXISTING LOCATIONS. INTERFACE WITH EMS.
- REMOVE CEILINGS AS REQUIRED FOR REMOVAL AND REPLACEMENT OF HVAC COMPONENTS. PATCH AND REPAIR ANY FLOORS, WALLS AND CEILINGS THAT ARE DAMAGED AS A RESULT OF THIS WORK. FINISHED WORK SHOULD MATCH EXISTING IN STYLE AND COLOR.
- REBALANCE HVAC SYSTEM.

SEE SCHEDULE FOR ADDITIONAL INFORMATION

KITCHELL

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HVAC AND EMS EFFICIENCY PROJECT IMPLEMENTATION
BRIDGING DOCUMENTS

SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA 94534

RFF/Q DOCUMENTS

NOT FOR CONSTRUCTION

BUILDING:

SHEET TITLE:

MECHANICAL FLOOR
PLAN & REHEAT
SCHEDULE - BUILDING
700

SCALE: AS SHOWN 0 1/2" 1"

REVISIONS

NO.	DATE	NO.	DATE

JOB NO.

3060E4

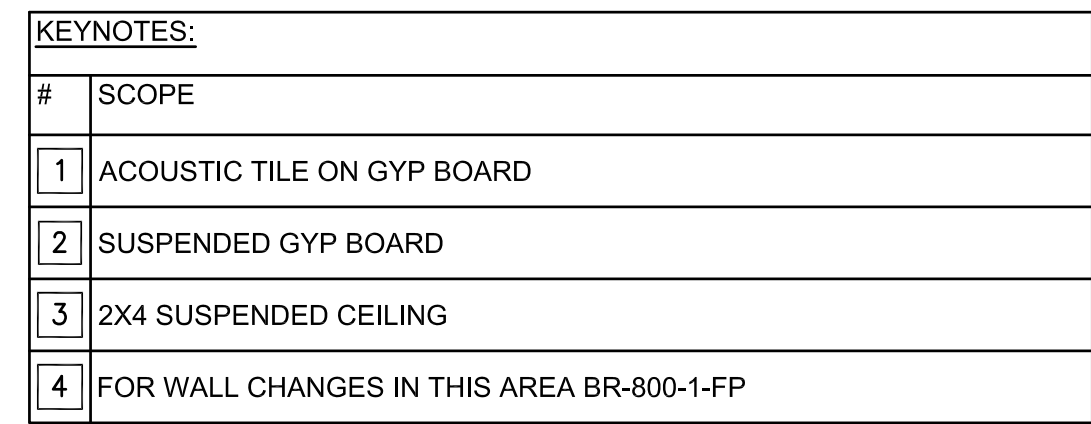
DATE

2/07/14

SHEET

BR-700-1-1P

1/8" = 1'-0"



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FAIRFIELD, CA 94534

RFP/Q DOCUMENTS


NOT FOR CONSTRUCTION

BUILDING:

SHEET TITLE:

REFLECTED CEILING
PLAN — BUILDING
800

SCALE: AS SHOWN



IF BAR IS NOT ONE INCH, DRAWING IS NOT TO SCALE

REVISIONS

[illegible]

JOB NO.

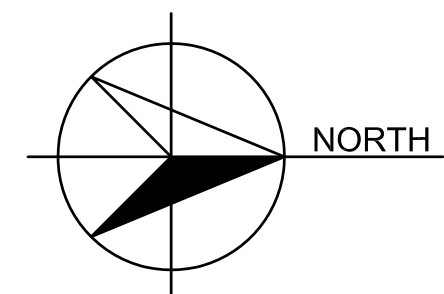
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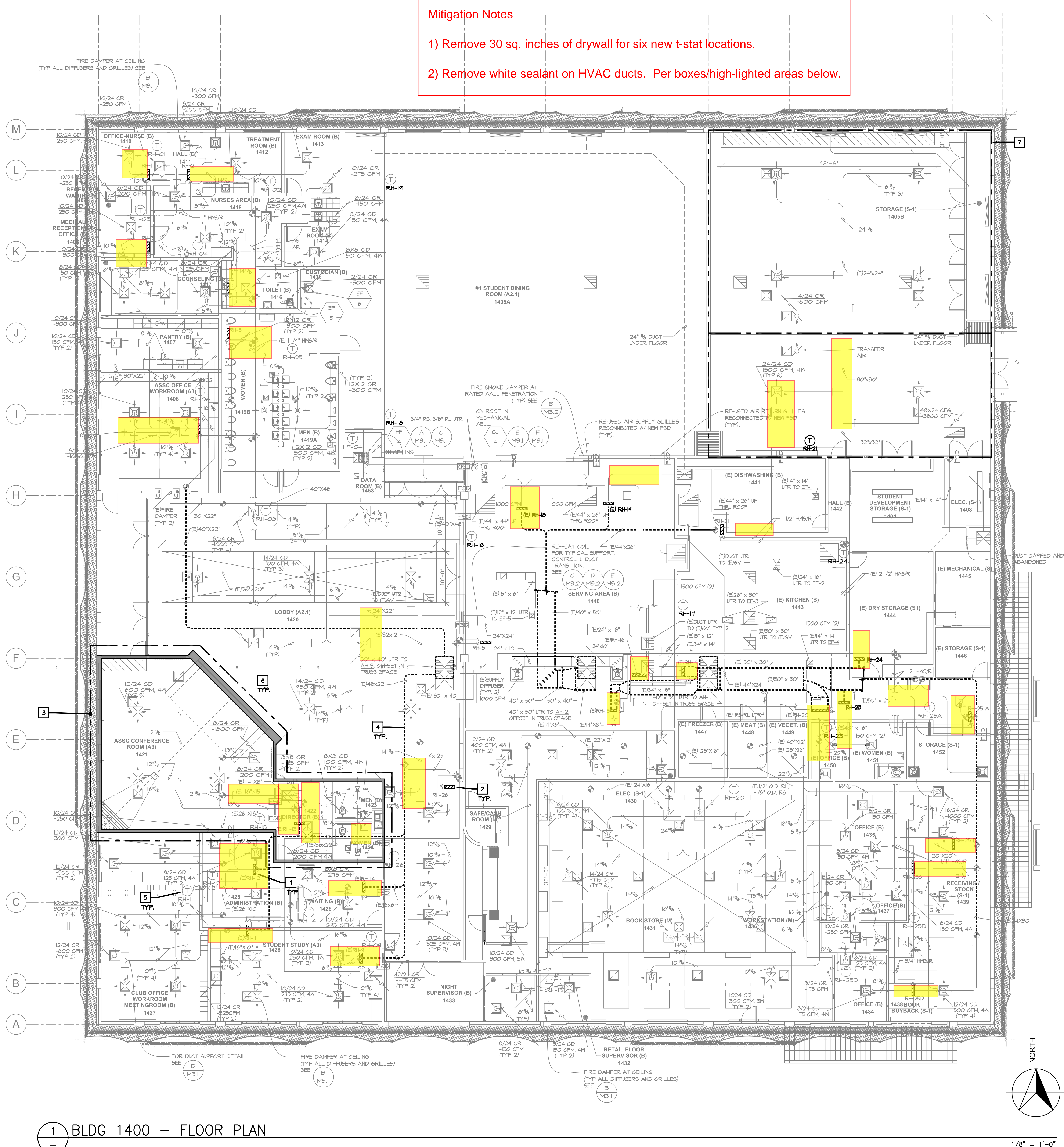
SHEET

BR-800-5-RCP

1 BLDG 800 - REFLECTED CEILING PLAN

$$\overline{1/8'' = 1'-0''}$$


LAST REVISION: 1/8" = 1'-0"



- Mitigation Notes**
- 1) Remove 30 sq. inches of drywall for six new t-stat locations.
 - 2) Remove white sealant on HVAC ducts. Per boxes/high-lighted areas below.

EXISTING HEATING COIL SCHEDULE										
MARK	MODEL	AIR FLOW (CFM)	FACE AREA (SQ. FT.)	EAT (WB/DB)	LAT (WB/DB)	CAPACITY (MBH) SENS.	FLOW (GPM)	CONN. SIZE (IN)	REMARKS	
RH 01	Z10-A1-A12-12 HEATING COIL	250	1.0	60	90	9.08	0.8		2, 3, 4, 5, 6	
RH 02	Z10-A1-A15-18 HEATING COIL	775	1.88	60	91.5	26.4	2.5		2, 3, 4, 5, 6	
RH 03	Z8-A2-A12-12 HEATING COIL	550	1.0	60	90	23.4	2.0		2, 3, 4, 5, 6	
RH 04	Z10-A1-A15-18 HEATING COIL	825	1.88	60	90	27.2	2.5		2, 3, 4, 5, 6	
RH 05	Z10-A1-A18-18 HEATING COIL	1000	2.25	60	90.3	32.8	2.8		2, 3, 4, 5, 6	
RH 06	Z10-A1-A18-18 HEATING COIL	1000	2.25	60	90.3	32.8	2.8		2, 3, 4, 5, 6	
RH 07	REMOVED									
RH 08	SWC-6-31.5 X31.5X1-10AL HEATING COIL	4000	6.89	60	90	132.4	10.1		2, 3, 4, 5, 6	
RH 09	REPLACE	1125	3	60	95	42.5	2.8	1	1, 2, 3, 4, 5	
RH 10	REMOVED									
RH 11	REPLACE	1600	3	60	90	52	3.5	1	1, 2, 3, 4, 5	
RH 12	REPLACE	700	1.5	60	85	19	1.3	3/4	1, 2, 3, 4, 5	
RH 13	REPLACE	3000	6	60	90	100	6.7	1 1/4	1, 2, 3, 4, 5	
RH 14	REPLACE	600	1.2	60	98	26	1.7	3/4	1, 2, 3, 4, 5	
RH 15	REPLACE	575	1.13	60	85	15.5	1.1	3/4	1, 2, 3, 4, 5	
RH 16	REPLACE	4000	7	60	85	108	7.2	1 1/4	1, 2, 3, 4, 5	
RH 17	REPLACE	3000	6	60	85	81	5.4	1 1/4	1, 2, 3, 4, 5	
RH 18	REPLACE	5700	10	60	85	154	10.3	2 1/2	1, 2, 3, 4, 5	
RH 19	REPLACE	5175	8.75	60	89	162	10.8	2 1/2	1, 2, 3, 4, 5	
RH 20	REPLACE	5550	10	60	86	156	10.4	2 1/2	1, 2, 3, 4, 5	
RH 21	SWC-6-43.5 X44X1-10AL HEATING COIL	9100	13.29	60	97.2	366.7	25.2	1 1/4	2, 3, 4, 5, 6	
RH 23	REPLACE	300	0.75	60	85	8.1	0.6	3/4	1, 2, 3, 4, 5	
RH 24	REPLACE	3000	6	60	95	114	5.4	1 1/4	1, 2, 3, 4, 5	
RH 25A	Z8-A2-A12-12 HEATING COIL	600	1.0	60	103.5	28.3	6.6		2, 3, 4, 5, 6	
RH 25B	SWC-6-22.5 X22X2-6AL HEATING COIL	2000	3.44	60	98.8	84.1	5.5		2, 3, 4, 5, 6	
RH 25C	Z8-A2-A12-12 HEATING COIL	550	1.0	60	105.4	27	2.3		2, 3, 4, 5, 6	
RH 25D	Z10-A1-A12-12 HEATING COIL	175	1.0	60	105.4	8.6	1.5		2, 3, 4, 5, 6	
RH 26	Z10-A1-A18-18 HEATING COIL	1000	2.25	60	90.3	32.8	2.8		2, 3, 4, 5, 6	

REMARKS:
1. REPLACE COIL
2. WATER TEMPERATURE DROP 180F - 150F
3. ALL NEW THERMOSTATS
4. MAX FACE VELOCITY 800CFM
5. MAX SP DROP 0.10 (IN WC)
6. REUSE EXISTING COIL

2 BLDG 1400 - EXISTING REHEAT SCHEDULE

#	SCOPE
1	REMOVE OLD REHEAT COILS 9, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 23, 24 AND ASSOCIATED VALVES/PIPING/DUCTWORK AND INSTALL NEW VAV BOXES WITH NEW VALVES AND REHEAT COILS TO CHANGE CONSTANT VOLUME SYSTEM TO VAV. INTERFACE WITH EMS.
2	INSTALL NEW VAV BOXES AT REHEAT COILS 1, 2, 3, 4, 5, 6, 8, 21, 25A, 25B, 25C, 25D, & 26 TO REMAIN. MODIFY PIPING/DUCTWORK AS NECESSARY TO INSTALL NEW BOXES. INTERFACE WITH EMS.
3	REDESIGN HVAC IN THIS AREA SO THAT THE CONFERENCE ROOM, DIRECTORS OFFICE AND RESTROOMS HAVE THEIR OWN VAV BOXES, REHEAT COILS AND THERMOSTATS. MODIFY DUCTWORK AND PIPING ACCORDINGLY.
4	REPLACE EXISTING SUPPLY AIR DUCT BOARD UPSTREAM OF THE NEW VAV BOXES WITH GALVANIZED SHEET METAL.
5	PROVIDE NEW THERMOSTATS AT EXISTING LOCATIONS. INTERFACE WITH EMS.
6	REMOVE CEILINGS AS REQUIRED FOR REMOVAL AND REPLACEMENT OF HVAC COMPONENTS. PATCH AND REPAIR ANY FLOORS, WALLS AND CEILINGS THAT ARE DAMAGED AS A RESULT OF THIS WORK. FINISHED WORK SHOULD MATCH EXISTING IN STYLE AND COLOR.
7	REDESIGN THIS AREA SO THAT THERE ARE 2 ZONES, 1 EACH EITHER SIDE OF THE FOLDING WALL.

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RFF/O DOCUMENTS

NOT FOR CONSTRUCTION

SHEET TITLE:

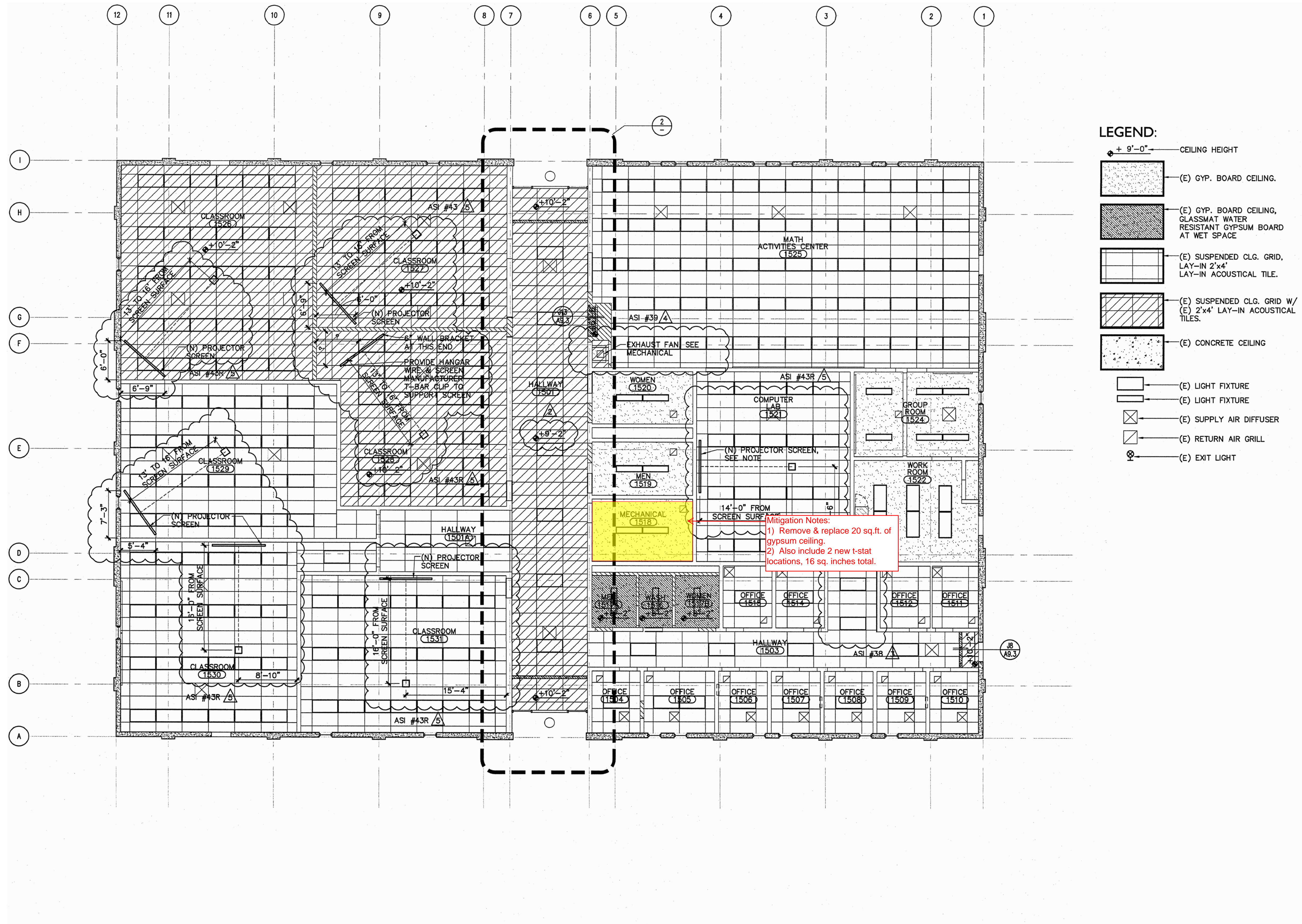
MECHANICAL FLOOR
PLAN & REHEAT
SCHEDULE -
BUILDING 1400

SCALE: AS SHOWN 0" = 1"

REVISIONS

NO.	DATE	NO.	DATE

JOB NO. 3060E4	SHEET BR-1400-1-FP
DATE 2/07/14	



1 BLDG 1500 — REFLECTED CEILING PLAN

1/8" = 1'-0"



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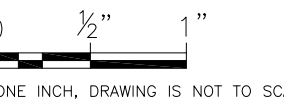
NOT FOR CONSTRUCTION

BUILDING:

SHEET TITLE:

REFLECTED CEILING
PLAN — BUILDING
1500

SCALE: AS SHOWN



REVISIONS

NO.	DATE	NO.	DATE

JOB NO.

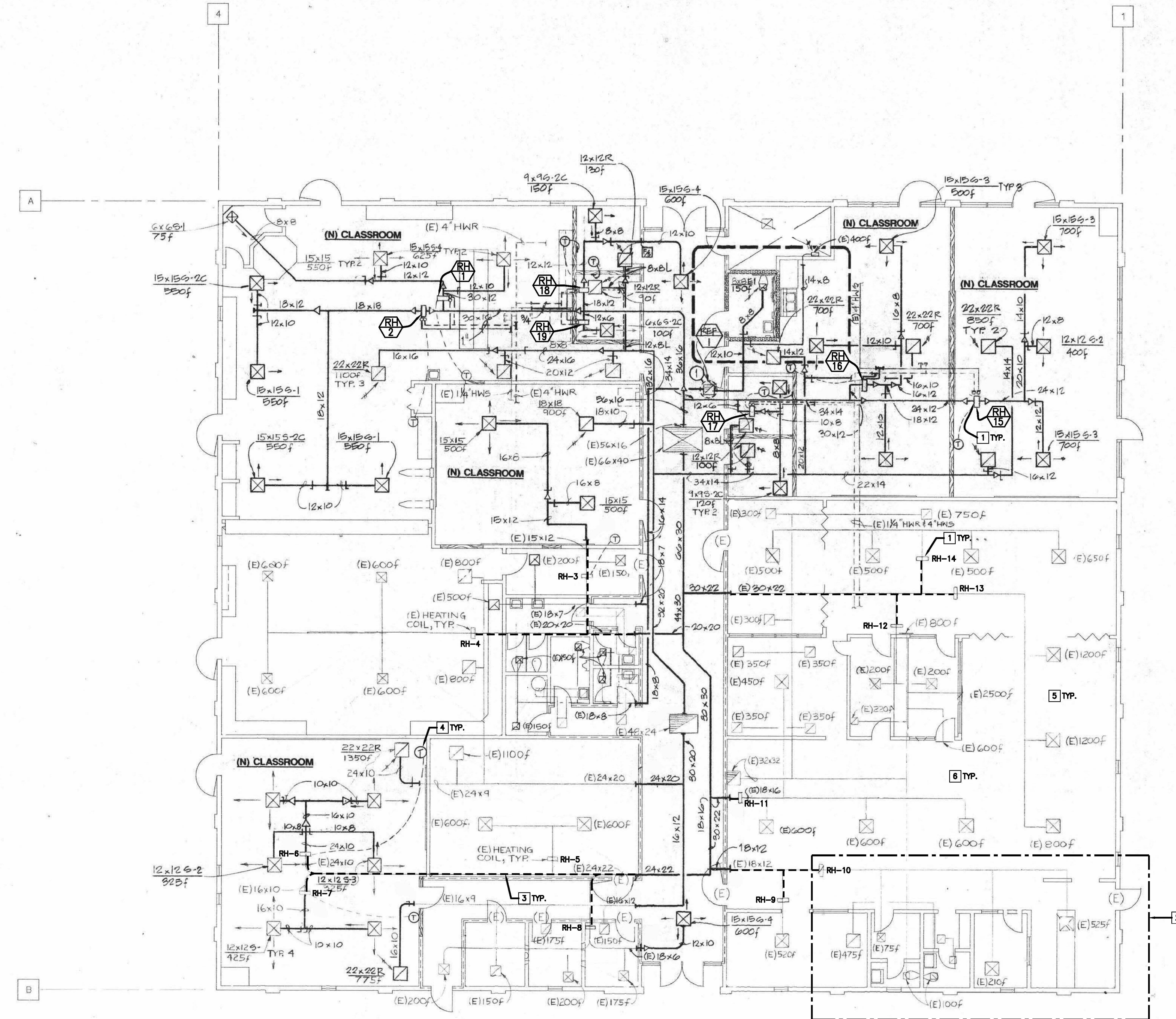
3060E4

SHEET

BR-1500-5-RCP

DATE

2/07/14



Mitigation Notes:

- 1) Remove 16 sq. inches of drywall for two new t-stat locations.

EXISTING HEATING COIL SCHEDULE

MARK	MODEL	AIR FLOW (CFM)	FACE AREA (SQ. FT.)	EAT (DB)	LAT (DB)	CAPACITY (MBH) SENS.	FLOW (GPM)	CONN. SIZE (IN)	REMARKS
RH-01		1325	2.5	60		50.085	2.5	3/4	1,2,3,4,5
RH-02		2200	3.75	60		83.16	4.2	3/4	1,2,3,4,5
RH-03		1050	2	60	85	28.3	1.7	3/4	1,3,4,5,6
RH-04		2400	5	60	87	68.7	4.5	1 1/4	1,3,4,5,6
RH-05		1200	2	60	85	32.4	2.2	1	1,3,4,5,6
RH-06		1500	2.5	60	85	40.5	2.7	1	1,3,4,5,6
RH-07		850	2	60	96	32.5	2.2	1	1,3,4,5,6
RH-08		1075	2	60	90	32.5	2.2	1	1,3,4,5,6
RH-09		520	1.13	60	95	19.7	1.3	3/4	1,3,4,5,6
RH-10		810	2	60	100	35	2.4	1	1,3,4,5,6
RH-11		2250	5	60	85	54.5	3.7	1 1/4	1,3,4,5,6
RH-12		400	1.13	60	85	10.8	0.8	3/4	1,3,4,5,6
RH-13		3200	6	60	85	77	5.2	1 1/4	1,3,4,5,6
RH-14		2150	5	60	85	58	3.9	1 1/4	1,3,4,5,6
RH-15		1800	1.13	60		68.04	3.4	3/4	1,2,3,4,5
RH-16		1500	3	60		56.7	2.8	3/4	1,2,3,4,5
RH-17		240	3	60		9.080	0.5	3/4	1,2,3,4,5
RH-18		750	1.5	60		28.350	1.4	3/4	1,2,3,4,5
RH-19		100	0.5	60		3.780	0.2	3/4	1,2,3,4,5

REMARKS:
 1. REPLACE COIL
 2. WATER TEMPERATURE DROP 180F - 140F
 3. ALL NEW THERMOSTATS
 4. MAX FACE VELOCITY 600FFM
 5. MAX SP DROP 0.10 (IN. WC)
 6. WATER TEMPERATURE DROP 180F - 150F

2 BLDG 1600 - EXISTING REHEAT SCHEDULE

KEYNOTES:

1. REMOVE ALL EXISTING REHEAT COILS AND ASSOCIATED VALVES/PIPING/DUCTWORK AND INSTALL NEW VAV BOXES WITH NEW VALVES AND REHEAT COILS TO TURN CONSTANT VOLUME SYSTEM INTO A VAV SYSTEM. INTERFACE WITH EMS.
2. REDESIGN HVAC IN THIS AREA TO PROVIDE APPROPRIATE HEATING AND COOLING. MODIFY DUCTWORK AND PIPING ACCORDINGLY.
3. REPLACE EXISTING SUPPLY AIR DUCT BOARD UPSTREAM OF THE NEW VAV BOXES WITH GALVANIZED SHEET METAL.
4. PROVIDE NEW THERMOSTATS AT EXISTING LOCATIONS. THE LOCATION OF ALL THERMOSTATS IS NOT SHOWN. DESIGNER TO VERIFY ACTUAL LOCATIONS. INTERFACE WITH EMS.
5. REMOVE CEILINGS AS REQUIRED FOR REMOVAL AND REPLACEMENT OF HVAC COMPONENTS. PATCH AND REPAIR ANY FLOORS, WALLS AND CEILINGS THAT ARE DAMAGED AS A RESULT OF THIS WORK. FINISHED WORK SHOULD MATCH EXISTING IN STYLE AND COLOR.
6. REBALANCE HVAC SYSTEM.



1/8" = 1'-0"

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 HVAC AND EMS EFFICIENCY PROJECT IMPLEMENTATION
 BRIDGING DOCUMENTS

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 FAIRFIELD, CA 94534

RFP/O DOCUMENTS

NOT FOR CONSTRUCTION
 BUILDING:

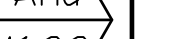
SHEET TITLE:
 MECHANICAL FLOOR
 PLAN & REHEAT
 SCHEDULE -
 BUILDING 1600

SCALE: AS SHOWN 0 1/2" 1"
 IF BAR IS NOT ONE INCH, DRAWING IS NOT TO SCALE

REVISIONS

NO.	DATE	NO.	DATE

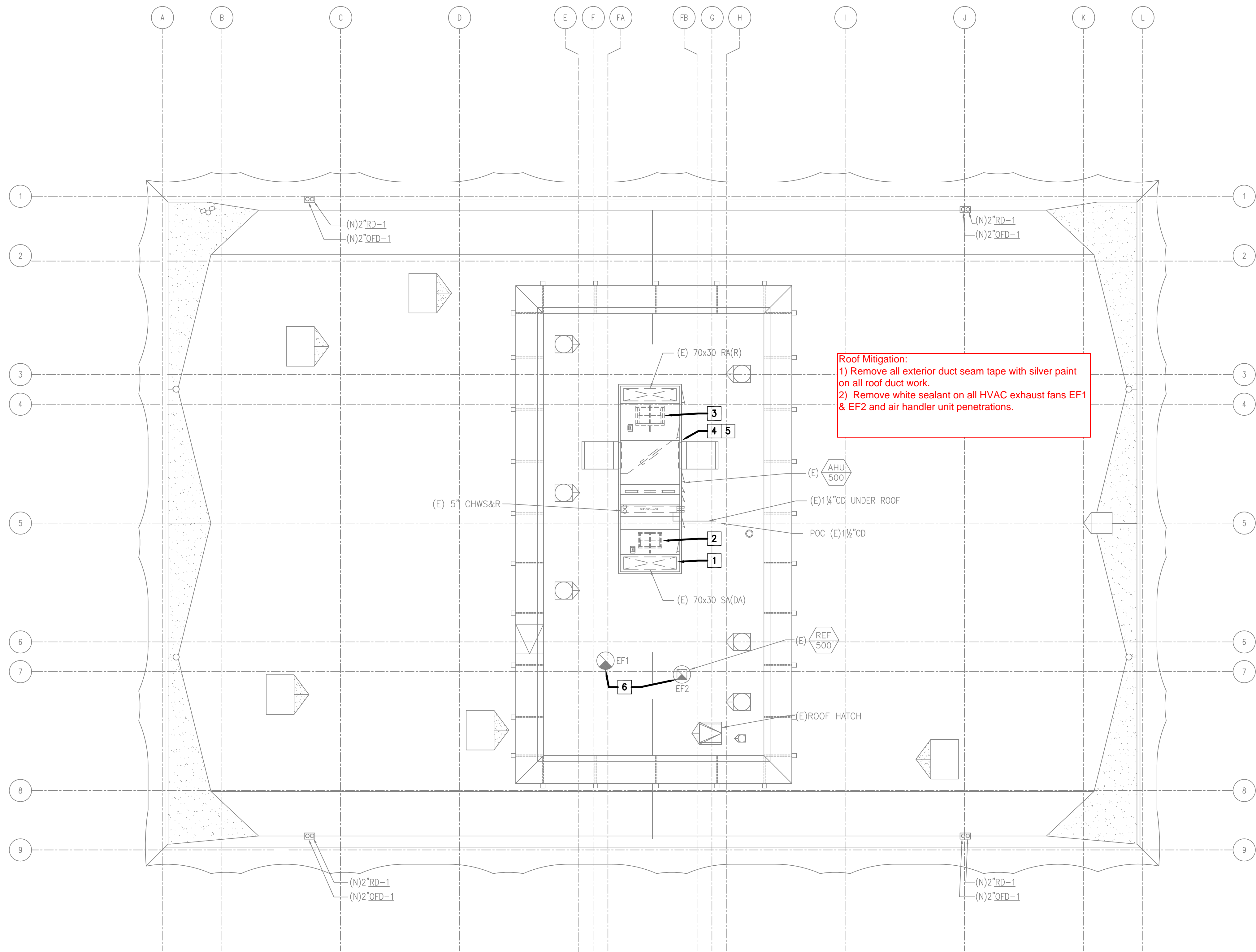
JOB NO.
 3060E4
 DATE
 2/07/14
 SHEET
 BR-1600-1-FP

EXISTING AIR HANDLER UNIT SCHEDULE																																			
SYMBOL	MANUFACTURER	MODEL	COOLING COIL												SUPPLY FAN						RETURN FAN					ELECTRICAL				OUTSIDE AIR CFM	OPERATING WEIGHT LBS.	FILTER EFFICIENCY			
			COOLING CAPACITY		AIR ENT COIL		AIR LVG COIL		SIZE HXW	EWT	LWT	GPM	ROWS	FPI	WPD (FT)	APD (IN WG)	TCV TYPE	CFM	TSP (IN WG)	ESP (IN WG)	TYPE	BHP	HP	CFM	ESP	TYPE	BHP	HP	MOTOR				CONTROL/LIGHTS		
			MBH		DB	WB	DB	WB																					VOLTS				PH	HZ	VOLTS
	CARRIER	-	1020	-	86.7	66.5	54	53	(2) 33x108	44°F	56°F	170	-	-	13.75	-	-	25,200	-	2.75	-	-	20	9,650	0.75	-	-	5.0	460	3	60	120V/1Ø/60HZ	-	-	-

2 BLDG 1600 – EXISTING AHU SCHEDULE

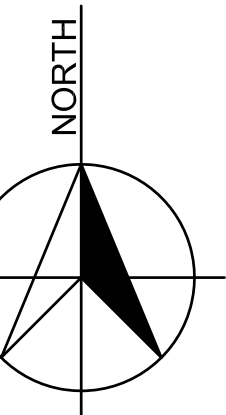
SYMBOL	CFM	S.P.	HP
EF1	5200	0.5	1
EF2	9450	0.5	2

3 BLDG 1600 – EXISTING EXHAUST FAN SCHEDULE



- KEYNOTES:
- # SCOPE
- 1 INSTALL STATIC PRESSURE SENSOR TO CONTROL NEW SUPPLY VFD.
 - 2 INSTALL NEW VFD ON NEW 20 HP SUPPLY FAN MOTOR. MODIFY POWER SUPPLY AS REQUIRED. INTERFACE WITH EMS.
 - 3 INSTALL NEW VFD ON NEW 5 HP RETURN FAN MOTOR. MODIFY POWER SUPPLY AS REQUIRED. INTERFACE WITH EMS. CONTROL OF RETURN FAN VFD TO TRACK SUPPLY VFD.
 - 4 REMOVE EXISTING HVAC UNIT.
 - 5 INSTALL NEW HVAC UNIT.
 - 6 REMOVE EXISTING EF1 & EF2 INSTALL NEW EF1 & EF2. VERIFY ACTUAL LOCATION OF EF1 & EF2.
- SEE SCHEDULE FOR ADDITIONAL INFORMATION AND COMPLETE AS REQUIRED.

1 BLDG 1600 – ROOF PLAN



1/8" = 1'-0"

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FAIRFIELD, CA 94534

RFP/Q DOCUMENTS

NOT FOR CONSTRUCTION

BUILDING:

SHEET TITLE:

MECHANICAL ROOF
PLAN & SCHEDULE –
BUILDING 1600

SCALE: AS SHOWN 0 1/2" 1"
IF BMAP IS NOT ONE INCH, DRAWING IS NOT TO SCALE

REVISIONS			
NO.	DATE	NO.	DATE

JOB NO. 3060E4	SHEET BR-1600-2-RP
DATE 2/07/14	