

# CODE ANALYSIS

## APPLICABLE CODES

	Year		Year
International Building Code	2006	National Electrical Code	2008
International Mechanical Code	2006	Uniform Code for Building Conservation	
International Plumbing Code	2006	ADA Accessibility Guidelines	
International Fire Code	2006		
International Energy Conservation Code	2006		

A. Occupancy and Group: \_\_\_\_\_  
 Change in Use: Yes \_\_\_\_\_ No  Mixed Occupancy: Yes \_\_\_\_\_ No   
 Special Use and Occupancy (e.g. High Rise, Covered Mall): \_\_\_\_\_

B. Seismic Design Category: \_\_\_\_\_ Design Wind Speed: \_\_\_\_\_ mph

C. Type of Construction (circle one):

I/A    I/B    II/A    II/B    III/A    III/B    IV/HT    V/A    V/B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):

North: \_\_\_\_\_ South: \_\_\_\_\_ East: \_\_\_\_\_ West: \_\_\_\_\_

E. Mixed Occupancies: \_\_\_\_\_ Nonseparated Uses: \_\_\_\_\_

F. Sprinklers:  
 Required: \_\_\_\_\_ Provided: \_\_\_\_\_ Type of Sprinkler System: \_\_\_\_\_

G. Number of Stories: \_\_\_\_\_ Building Height: \_\_\_\_\_

H. Actual Area per Floor (square feet): \_\_\_\_\_

I. Tabular Area: \_\_\_\_\_

J. Area Modifications:

$$a) A_a = A_t + \left[ \frac{A_t I_f}{100} \right] + \left[ \frac{A_t I_s}{100} \right] \quad I_f = 100 \left[ \frac{F}{P} - 0.25 \right] \frac{W}{30}$$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$$

c) Total Allowable Area for:

- 1) One Story: \_\_\_\_\_
- 2) Two Story:  $A_a(2)$  \_\_\_\_\_
- 3) Three Story:  $A_a(3)$  \_\_\_\_\_

d) Unlimited Area Building: Yes \_\_\_\_\_ No \_\_\_\_\_ Code Section: \_\_\_\_\_

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls			Floors - Ceiling Floors		
Interior Bearing Walls			Roofs - Ceiling Roofs		
Exterior Non-Bearing Walls			Exterior Doors and Windows		
Structural Frame			Shaft Enclosures		
Partitions - Permanent			Fire Walls		
Fire Barriers			Fire Partitions		
			Smoke Partitions		

L. Design Occupant Load: \_\_\_\_\_  
 Exit Width Required: \_\_\_\_\_ Exit Width Provided: \_\_\_\_\_

M. Minimum Number of Required Plumbing Facilities:

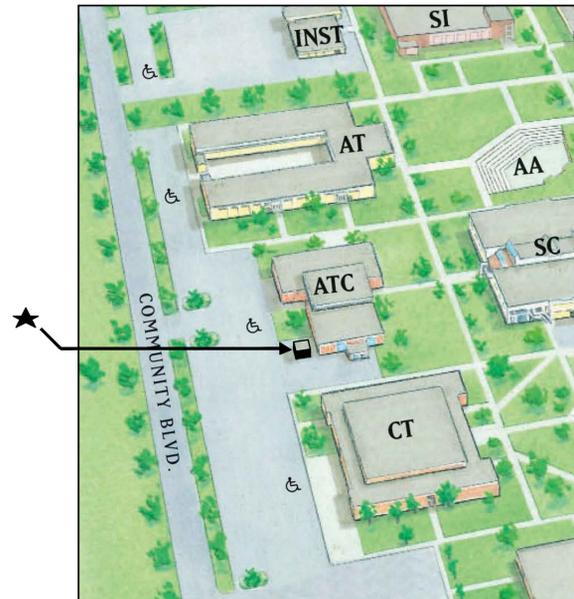
- a) Water Closets - Required (m) \_\_\_\_\_ (f) \_\_\_\_\_ Provided (m) \_\_\_\_\_ (f) \_\_\_\_\_
- b) Lavatories - Required (m) \_\_\_\_\_ (f) \_\_\_\_\_ Provided (m) \_\_\_\_\_ (f) \_\_\_\_\_
- c) Bath Tubs or Showers: \_\_\_\_\_
- d) Drinking Fountains: \_\_\_\_\_ Service Sinks: \_\_\_\_\_

## FOOTNOTES:

- 1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
- 2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
  - a) High Rise Requirements.
  - b) Atriums.
  - c) Performance Based Criteria.
  - d) Means or Egress Analysis.
  - e) Fire Assembly Locator Sheet.
  - f) Exterior and Interior Accessibility Route.
  - g) Fire Stopping, Including Tested Design Number.

# SALT LAKE COMMUNITY COLLEGE REDWOOD ROAD CAMPUS COMPRESSOR REPLACEMENT DFCM # 09052660

SLC, UT 84123



## DRAWING INDEX:

- M000 - TITLE SHEET
- MG001- MECHANICAL GENERAL NOTES AND LEGEND
- ME101- COMPRESSOR ROOM DEMOLITION AND REMODEL PLAN
- ME501- MECHANICAL DETAILS AND FLOW DIAGRAM
- ME601- MECHANICAL SCHEDULES



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DRAWN BY: JB	
CHECKED BY: WP	
DATE: 6/26/2009	
WHW JOB NO.: 09023	

**GENERAL MECHANICAL  
NOTES AND LEGEND**

SHEET NO. **MG001**

MECHANICAL LEGEND					
SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION
GENERAL TERMINOLOGY			AIR SIDE		
		DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION			EXISTING AIR DUCT TO BE REMOVED
		MECHANICAL EQUIPMENT DESIGNATION EQUIPMENT ITEM DESIGNATION			EXISTING AIR DUCT TO REMAIN
		REGISTER, GRILL OR DIFFUSER DESIGNATION WITH BALANCING CFM LISTED BELOW			NEW AIR DUCT
		GRILLE, OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRE			NEW SPIRAL DUCT
		REVISION DESIGNATOR AND NUMBER			NEW MEDIUM PRESSURE DUCT
		KEY NOTE DESIGNATOR AND NUMBER			BURIED OR UNDER FLOOR DUCT
	POC	POINT OF CONNECTION			FLEXIBLE AIR DUCT
	POR	POINT OF REMOVAL			LINED DUCT
GC		GENERAL CONTRACTOR			VANED ELBOW
MC		MECHANICAL CONTRACTOR			RADIUS ELBOW
ATC		CONTROL CONTRACTOR			FLEXIBLE AIR DUCT CONNECTION
EC		ELECTRICAL CONTRACTOR			VOLUME DAMPER
FPC		FIRE PROTECTION CONTROL			SUPPLY AIR DIFFUSER
NIC		NOT IN CONTRACT			RETURN AIR, FRESH AIR, AND TRANSFER AIR
NTS		NOT TO SCALE			CEILING MOUNTED EXHAUST FAN OR EXHAUST GRILLE
C		COMMON			RETURN OR OUTSIDE AIR DUCT UP
NC		NORMALLY CLOSED			SUPPLY DUCT UP
NO		NORMALLY OPEN			EXHAUST AIR INTAKE UP
					RETURN OR OUTSIDE AIR DUCT DOWN
					SUPPLY DUCT DOWN
					EXHAUST DUCT DOWN
					ROUND DUCT UP
					ROUND DUCT DOWN
				AP	ACCESS PANEL
					EXISTING EQUIPMENT TO BE REMOVED
					EXISTING EQUIPMENT TO REMAIN
					NEW EQUIPMENT
				T-STAT	WALL MOUNTED THERMOSTAT MECHANICAL EQUIPMENT CONTROLLED
				SA	SUPPLY AIR
				RA	RETURN AIR
				EA	EXHAUST AIR
				OA	OUTSIDE AIR
				MA	MIXED AIR
				FA	FRESH AIR
				RF	RELIEF AIR

GENERAL NOTES:

- G-1** MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.
- A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.
- B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.
- C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.
- D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.
- E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.
- G-2** ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CHANGES FOR APPROVAL. CONTRACTOR SHALL NOT START ANY CHANGES UNTIL NOTIFIED IN WRITING. IF CHANGES ARE MADE PRIOR TO APPROVAL CONTRACTOR SHALL TAKE ALL RESPONSIBILITY FOR THE CHANGES MADE AND ALL COSTS RELATING TO FAILURE OR REPLACEMENT OF ALTERATIONS.
- G-3** CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.
- G-4** THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.
- G-5** THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.
- G-6** MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE AND FIRE DAMPERS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.
- G-7** SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.
- G-8** PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.
- G-9** SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS AND GRILLES.
- G-10** PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.
- G-11** THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.
- G-12** THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.
- G-13** C.F.M. LISTED IS ACTUAL AIR.
- G-14** SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

- G-15** CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.
- G-16** ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2006 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.
- G-17** THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND RE-FILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN RE-FILLING THE SYSTEM.
- G-18** THIS CONTRACTOR SHALL CONTRACT WITH A DESIGN BUILD ELECTRICAL CONTRACTOR FOR THE DESIGN AND CONSTRUCTION OF THE ELECTRICAL PORTION OF THIS PROJECT. ELECTRICAL INSTALLATION AND DESIGN SHALL BE PER 2008 NEC.
- G-19** ALL PIPING, MATERIALS, ETC. SHALL BE NEW AND DOMESTIC MADE UNLESS SPECIFICALLY AUTHORIZED IN WRITING PRIOR TO BID.

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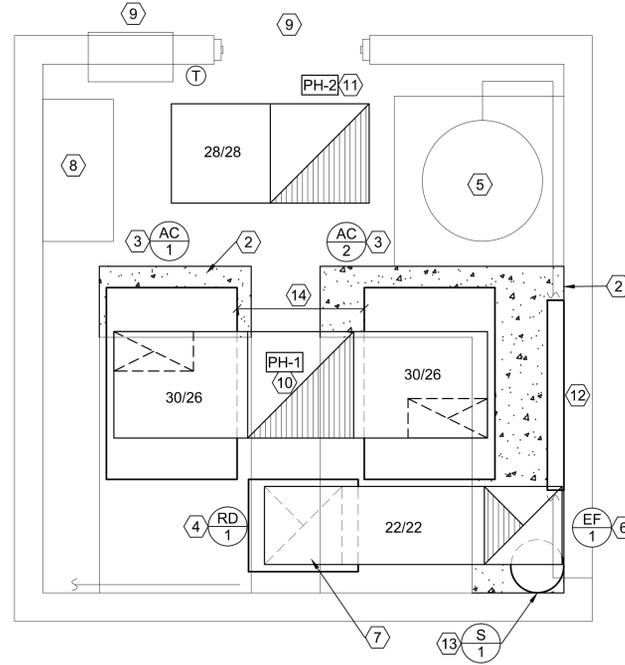
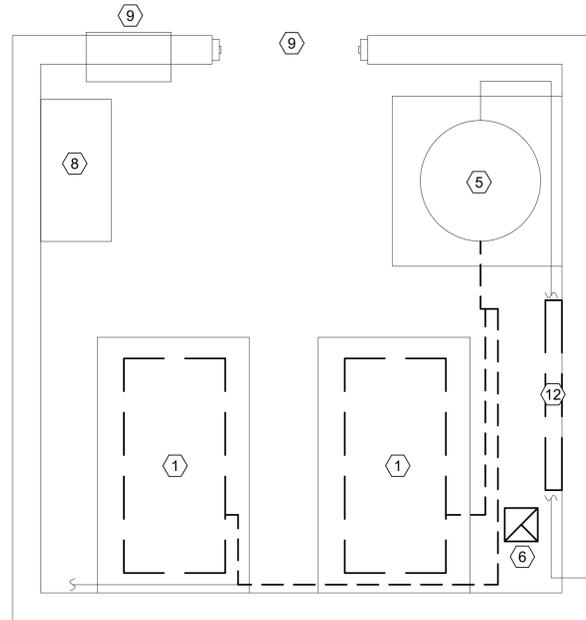


SHEET NOTES:

- ① REMOVE EXISTING AIR COMPRESSOR AND ALL ASSOCIATED PIPING UP TO STORAGE TANK.
- ② EXTEND EXISTING 4" HOUSEKEEPING PAD AS SHOWN. COORDINATE
- ③ PROVIDE NEW AIR COMPRESSOR. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. RE-CONNECT TO EXISTING POWER, PIPING, ETC. PROVIDE WITH NEW STARTERS AND DISCONNECTS. SEE FLOW SHEET FOR PIPING.
- ④ PROVIDE NEW AIR DRYER AND FILTERS PER MANUFACTURER'S GUIDELINES. SEE FLOW DETAIL SHEET ME501. PROVIDE FLOOR STAND AND ANCHOR TO WALL TO SUPPORT DRYER HIGH ENOUGH TO ALLOW ACCESS BEHIND COMPRESSORS. PROVIDE ALL ASSOCIATED ELECTRICAL CONNECTIONS, INCLUDING WIRING, CONDUIT, BREAKERS, ETC.
- ⑤ EXISTING STORAGE TANK SHALL REMAIN.
- ⑥ REMOVE AND REPLACE EXISTING EXHAUST FAN.
- ⑦ DROP DUCT TO 24" ABOVE AIR DRYER. PROVIDE RODENT SCREEN ON DUCT INLET.
- ⑧ EXISTING ELECTRICAL EQUIPMENT SHALL REMAIN. REPLACE BREAKERS FOR NEW COMPRESSORS, AND NEW EXHAUST FAN.
- ⑨ EXISTING FRESH AIR LOUVERS IN WALL AND DOORS SHALL REMAIN.
- ⑩ PROVIDE EXHAUST DUCT WORK FROM AUXILIARY DUCT CONNECTION AT COMPRESSOR AND ROUTE TO NEW ROOF MOUNTED PENTHOUSE. COORDINATE EXACT SIZE AND LOCATION OF DUCT WORK WITH MANUFACTURER'S RECOMMENDATIONS.
- ⑪ PROVIDE NEW ROOF MOUNTED FRESH AIR PENTHOUSE AND NEW FRESH AIR DUCT.
- ⑫ REMOVE AND REPLACE EXISTING FILTERS. SEE AIR FLOW SHEET. RE-CONNECT TO EXISTING MANUAL BY PASS TO CONTROLS COMPRESSORS.
- ⑬ PROVIDE NEW OIL/WATER SEPARATOR. TIE INTO EXISTING DRAIN.
- ⑭ MAINTAIN MINIMUM 36" CLEARANCE BETWEEN ELECTRICAL CONTROL PANELS AS REQUIRED BY CODE.

GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
2. CONTRACTOR SHALL PROVIDE AN AUXILIARY AIR COMPRESSOR OF EQUIVALENT CAPACITY DURING REPLACEMENT OF OLD COMPRESSORS IN ORDER TO PROVIDE UNINTERRUPTED SERVICE TO BUILDING.



COMPRESSOR ROOM DEMOLITION PLAN

SCALE: 1/2" = 1'-0"



COMPRESSOR ROOM REMODEL PLAN

SCALE: 1/2" = 1'-0"



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SHEET TITLE

**COMPRESSOR ROOM  
MECHANICAL DEMOLITION  
AND REMODEL PLAN**

SHEET NO.

**ME101**

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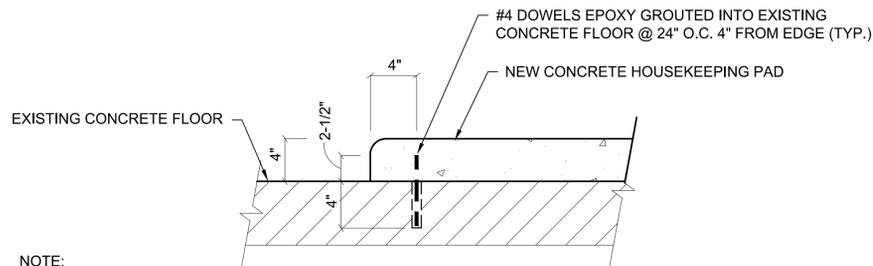
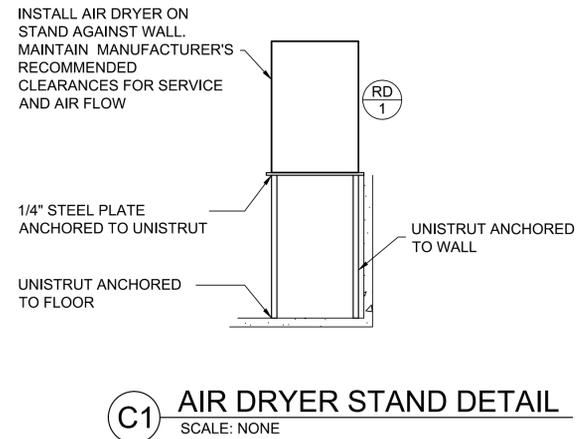
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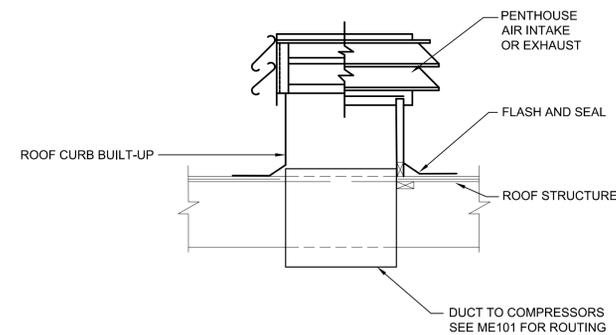
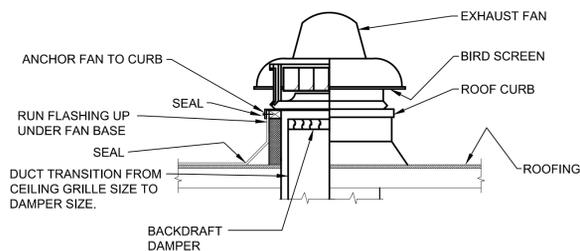
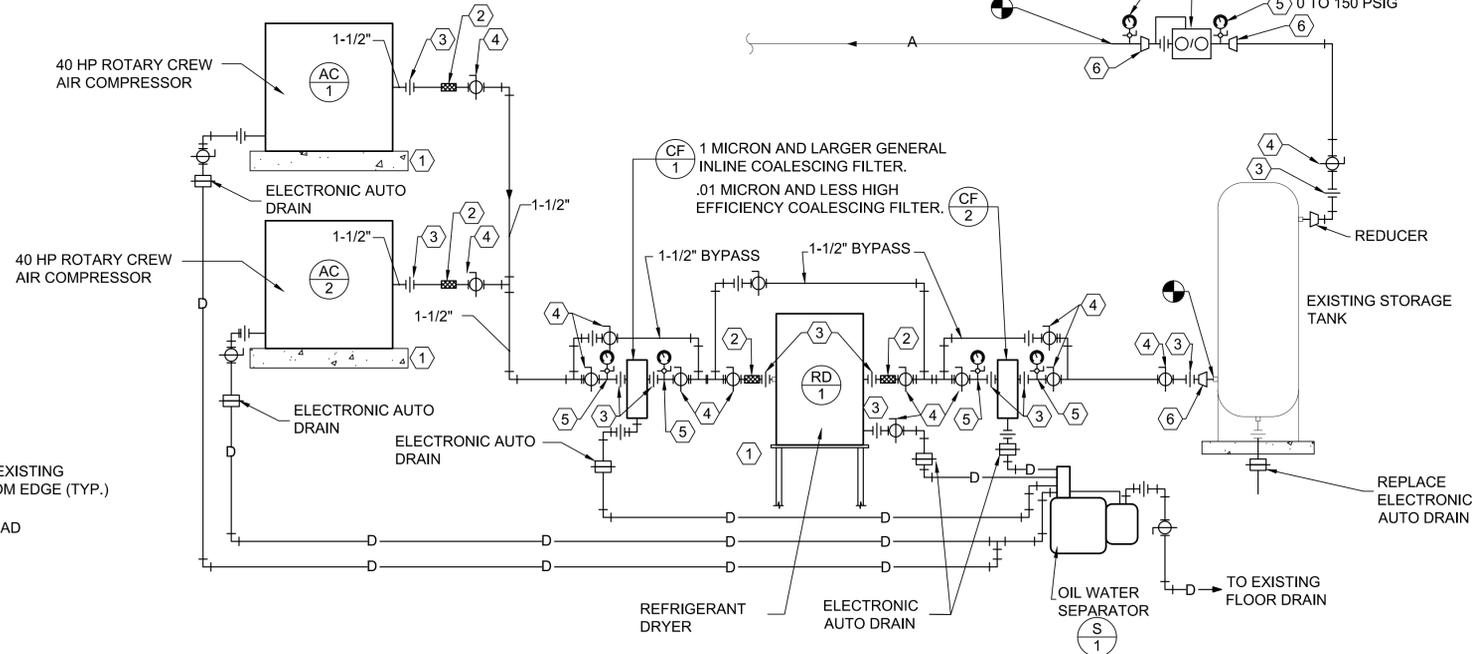
SHEET TITLE  
**MECHANICAL DETAILS  
AND FLOW DIAGRAM**

SHEET NO.  
**ME501**

- ① EXTEND EXISTING HOUSEKEEPING PAD AS NECESSARY.
- ② FLEXIBLE CONNECTIONS
- ③ UNIONS
- ④ BALL VALVES - 1/4 TURN
- ⑤ PRESSURE GAUGE WITH VALVE AND SNUBBER
- ⑥ FIELD VERIFY EXACT SIZE OF REDUCER.
- ⑦ ANCHOR UNITS TO HOUSE KEEPING PAD. PROVIDE WITH NEOPRENE ISOLATORS.



NOTE:  
FOR NEW PAD EXTENSION CONNECTING TO END OF EXISTING PAD USE #4 DOWELS HORIZONTALLY @ 16" O.C. DRILL INTO EXISTING PAD AT MID POINT 6" MIN. AND EPOXY GROUT DOWELS INTO PLACE. USE VERTICLE REINFORCING AS SHOWN FOR FLOOR ATTACHMENT.



**A2 ROOF MOUNTED EXHAUST FAN DETAIL**  
SCALE: NONE

**A4 PENTHOUSE DETAIL**  
SCALE: NONE

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SHEET TITLE



**MECHANICAL SCHEDULE**

SHEET NO.

**ME601**

OIL / WATER SEPARATOR SCHEDULE					
SYMBOL	MAX SCFM	CONDENSATE INLET	CONDENSATE INLETS	MANUFACTURER	SCHEDULE NOTES
$\frac{S}{1}$	200	1/4" NPT	QTY - 3-1/2" NPT	PROVIDE BY SAME MANUFACTURER AS COMPRESSOR	

AIR COMPRESSOR SCHEDULE									
SYMBOL	TYPE	CFM	MOTOR		MAX OP. PRESSURE (PSIG)	NPT OUTLET	NOISE LEVEL dB (A)	MANUFACTURER	SCHEDULE NOTES
			HP	ELECTRICAL					
$\frac{AC}{1}$	ROTARY SCREW	162	40	208-230/460/3φ/60	175	1-1/4" NPT	67	KAESER ASD-40S	1,2,3,4,5,6
$\frac{AC}{2}$	ROTARY SCREW	162	40	208-230/460/3φ/60	175	1-1/4" NPT	67	KAESER ASD-40S	1,2,3,4,5,6

1. FLOOR MOUNTED.  
2. AIR COOLED.  
3. PROVIDE WITH AUXILIARY EXHAUST DUCTING KIT.  
4. MEASURED AT 3 FT ACCORDING TO CAGI.  
5. MANUFACTURER LISTED IS BASIS OF DESIGN PRODUCT. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURES.  
6. BASE BID: PROVIDE WITH LEAD/LAG ALTERNATING RUN TIME CONTROLLER WITH PROGRAMMABLE SCHEDULE. ADDITIVE ALTERNATE #1: COORDINATE WITH JOHNSON CONTROLS LOCAL SERVICE BRANCH TO TIE NEW CONTROLLER INTO THE CAMPUS METASYS SYSTEM, TO ALLOW REMOTE START/STOP, ALARM MONITORING, AND REMOTE SCHEDULING.

AIR CONTROLLER SCHEDULE							
SYMBOL	TYPE	MAX FLOW RATE	MAX INLET PRESSURE PSIG	CONTROL RANGE PSIG	OPERATING TEMPERATURE RANGE	MANUFACTURER	SCHEDULE NOTES
$\frac{C}{1}$	INLINE	250 SCFM	232	145 TO 7	176°F TO -4°F	PROVIDE BY SAME MANUFACTURER AS COMPRESSOR	1

1. MATCH SIZE TO EXISTING PIPING.

COALESCING/ PARTICULATE FILTER								
SYMBOL	TYPE	SCFM	CONN. SIZE	MAX. PRESS. PSIG	PARTICLES REMOVED		MANUFACTURER	SCHEDULE NOTES
					BULK	OIL		
$\frac{CF}{1}$	GENERAL INLINE	170	1" NPT	250	3 MICRON	5 PPM	KAESER KFS-170	1,3,4
$\frac{CF}{2}$	HIGH EFFICIENCY INLINE	250	1" NPT	250	.01 MICRON	.01 PPM	KAESER KOR-170	2,3,4

1. LOCATE ON INLET TO AIR DRYER AND OUTLET OF COMPRESSOR.  
2. LOCATE ON AIR DRYER OUTLET.  
3. PROVIDE WITH AUTOMATIC DRAIN TRAP.  
4. MANUFACTURER LISTED IS BASIS OF DESIGN PRODUCT. SEE SPECIFICATIONS FOR APPROVED MANUFACTURES.

REFRIGERATED DRYER SCHEDULE							
SYMBOL	CAPACITY SCFM	DEW POINT	MAX OPER. PRESSURE PSIG	ELECTRICAL	AIR CONNECTIONS	MANUFACTURER	SCHEDULE NOTES
$\frac{RD}{1}$	175	38°F	230 PSIG	230/1φ/60	1-1/4" NPT	KAESER TC-44	1,2,

1. BASED ON 100 PSIG, 100°F INLET AIR, 100°F AMBIENT.  
2. MANUFACTURER LISTED IS BASIS OF DESIGN PRODUCT. SEE SPECIFICATION FOR APPROVED MANUFACTURES.

ROOF MOUNTED EXHAUST FAN SCHEDULE										
SYMBOL	MANUFACTURER & MODEL No.	SERVES	C.F.M	STATIC PRESSURE IN. WG.	MAX NOISE SONES	MOTOR			OPER. WT. (LBS)	SCHEDULE NOTES
						V - Ø - Hz	HP	RPM		
$\frac{EF}{1}$	COOK MODEL 225 ACEB	EQUIPMENT ROOM	4000	.3	9.5	115/1φ/60	$\frac{3}{4}$	675	249	1,2

1. SEE DETAIL A2/ME501.  
2. MANUFACTURER LISTED IS BASIS OF DESIGN PRODUCT. SEE SPECIFICATIONS FOR APPROVED MANUFACTURES.

ROOF MOUNTED PENTHOUSE SCHEDULE					
SYMBOL	TYPE	SERVICE	NOMINAL SIZE	MAKE & MODEL	SCHEDULE NOTES
$\frac{PH-1}{1}$	ROOF	EXHAUST	30/30/20	RUSKIN PH811S	1,2
$\frac{PH-2}{2}$	ROOF	INTAKE	30/30/20	RUSKIN PH811S	1,2

REGISTER. LOUVER AND DIFFUSER SCHEDULE NOTES:  
1. PROVIDE WITH BAKED ENAMEL FINISH. COLOR BY OWNER. PROVIDE WITH BIRD SCREENS.  
2. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.