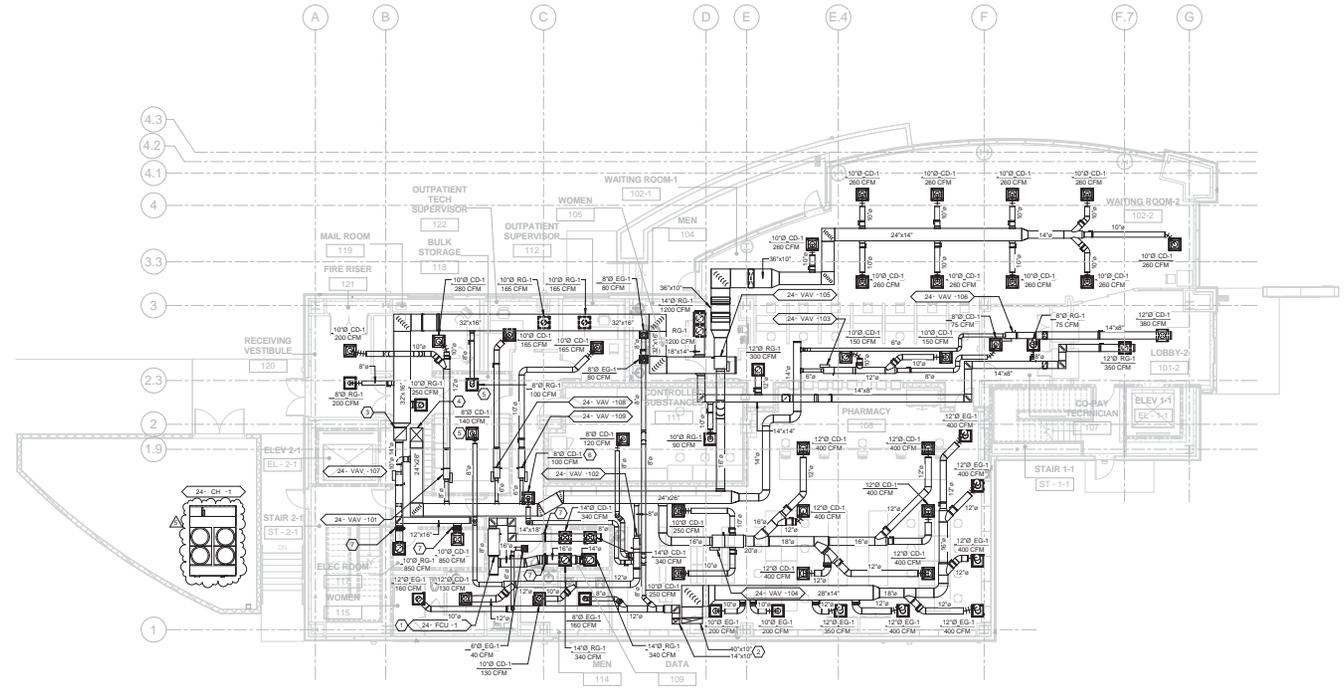


KEYNOTES

- 1 PROVIDE 304 STAINLESS STEEL SECONDARY DRAIN PAN UNDER UNIT. PIPE TO ABOVE MDP SINK IN JANITOR ROOM.
- 2 EXHAUST AIR DUCT UP TO SECOND FLOOR.
- 3 RETURN AIR DUCT UP TO SECOND FLOOR.
- 4 SUPPLY AIR DUCT UP TO SECOND FLOOR.
- 5 PROVIDE NEW COMBINATION SMOKE/FIRE DAMPER AT DEFUSER LEVEL OF INSTALLATION. IN 1-HR RATED CEILING PER ARCHITECTURAL PLANS.
- 6 PROVIDE 3-WAY THROUGH CEILING DIFFUSER.
- 7 PROVIDE NEW COMBINATION SMOKE/FIRE DAMPER AT RATED WALL.

FIRE RATED WALL LEGEND

SYMBOL	DESCRIPTION
	1-HR FIRE RATED PARTITION SHOWN FOR REFERENCE ONLY ON 1/8" SCALE FLOORPLANS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL FIRE RATED ASSEMBLIES.



○ FIRST FLOOR DUCTWORK PLAN
1/8" = 1'-0"

one eighth inch = one foot
 one quarter inch = one foot
 one half inch = one foot
 one inch = one foot
 one and one half inches = one foot
 two inches = one foot
 three eighths inch = one foot
 three quarters inch = one foot
 three sixteenths inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot
 one thirty-second inch = one foot
 one sixty-fourth inch = one foot
 one one-hundredth inch = one foot
 one two-hundredth inch = one foot
 one four-hundredth inch = one foot
 one eight-hundredth inch = one foot
 one one-thousandth inch = one foot
 one two-thousandth inch = one foot
 one four-thousandth inch = one foot
 one eight-thousandth inch = one foot
 one sixteen-thousandth inch = one foot
 one thirty-two-thousandth inch = one foot
 one sixty-four-thousandth inch = one foot
 one one-hundred-thousandth inch = one foot
 one two-hundred-thousandth inch = one foot
 one four-hundred-thousandth inch = one foot
 one eight-hundred-thousandth inch = one foot
 one millionth inch = one foot

NORTH
 ISSUED FOR 100% SUBMITTAL
 NOT FOR CONSTRUCTION

NO.	REVISION/DATE
1	ISSUED FOR 100% SUBMITTAL 08.17.12
2	ISSUED FOR 90% SUBMITTAL 08.21.12
3	ISSUED FOR DESIGN DEVELOPMENT 08.22.12
4	ISSUED FOR 100% SUBMITTAL 08.17.12
5	REVISION/DATE

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 Approved: Chief, Engineering Dept.

Approved: Chief, Env. of Care Dept.
 Approved: Chief, Env. Management Dept.
 Approved: Dr. Facilities Management
 Approved: Chief, Medical Officer

Approved: VP, Administration Support
 Approved: C.E.O.

Drawing Title: **HVAC FIRST FLOOR DUCTWORK PLAN**

Project Title: **VA Loma Linda Healthcare System A/E OF Pharmacy**
 Location: 11201 BENTON STREET, LOMA LINDA, CA 92357
 Date: 08.17.12
 Checked: TC
 Drawn: ML
 Deg. of: _____

Project Number: 605-327
 Building Number: 24
 Drawing Number: **M-210**

Office of Construction and Facilities Management
 Department of Veterans Affairs

SYMBOL	EQUIP. NO.	SUPPLY AIR CFM	MIN. OSA	SUPPLY AIR FAN OVERALL ESP	SUPPLY AIR FAN ELECTRICAL				RETURN AIR FAN CFM	RETURN AIR FAN OVERALL ESP	RETURN AIR FAN ELECTRICAL				AIR HANDLING UNIT SCHEDULE				COOLING COIL				FILTER				BASIS OF DESIGN												
					MOTOR RPM	HP	TOTAL BHP	VOLT			PH	Hz	RPM	HP	TOTAL BHP	VOLT	PH	Hz	SENSIBLE	TOTAL	ENT. FLUID TEMP	FLUID TEMP RISE	LVG FLUID TEMP	FLOW RATE	ENT. DB	ENT. WB	LVG DB	LVG WB	PD	NO. OF ROWS	FIN SPACING	FACE AREA	TYPE	PRIMARY TYPE	UNIT WEIGHT	MANUFACTURER	MODEL	REMARKS	
AHU	1	13500 CFM	3120 CFM	1.50 in-wg	1800	15,000 hp	12,330 hp	460 V	3	30 Hz	13500 CFM	1.50 in-wg	1800	10,000 hp	8,375 hp	460 V	3	60 Hz	475440.0 Btu/h	872200.0 Btu/h	42 °F	10 °F	52 °F	117.00 GPM	87 °F	66 °F	55 °F	54 °F	0.46 in-wg	4	129	29 SF	FLAT FILTER	4IN. CARTRIDGE-14	95% EFF - MERV 14	5830	Trane	CSIA30	SEE NOTES

- SUPPLY/RETURN FAN TO COME COMPLETE WITH AIRFLOW MONITORING STATIONS, VFDs, CONTROLS PER DETAIL 1 ON SHEET M-517. FAN INTERNALLY ISOLATED.
- TOTAL STATIC PRESSURE IS AN ESTIMATED VALUE BASED ON INFORMATION OF ONE MANUFACTURER OF AHUS. ADJUST TOTAL AS REQUIRED BASED ON ACTUAL UNIT & COIL LOSSES & SPECIFIED EXTERNAL & FILTER FINAL SP.

SYMBOL	EQUIP. NO.	EQUIP. SERVED	TOTAL COOLING CAPACITY (TONS)	P.D.F.T. W.G.	AMB SUMMER TEMP	FLOW				FULL LOAD EFF (EER)	PLV (EER)	NO. OF COMPRESSORS	PUMP QTY.	AVAILABLE HEAD PRESSURE	TOTAL PD	HP	EXP. TANK VOL	ELECTRICAL				BASIS OF DESIGN						
						MIN.	PD AT MIN. FLOW	MAX	PD AT MAX. FLOW									EWT °F	LWT °F	QTY.	TEMP	HP	PH	Hz	MCA	MOCP	WEIGHT	MANUFACTURER
CH	1	AHU-1	40	16.40 (RFGC)	105 °F	56.70 GPM	8.5	45.80 GPM	45.8	54 °F	42 °F	8.4	13.8	4	2	83	9.4	5,000 hp	4.8	460 V	3	60 Hz	107.60 A	125.00 A	6117.00 lb	Trane	CGM040	SEE NOTES

- COMPLETE WITH HIGH AMBIENT, UL LISTED, REFRIGERANT ISOLATION VALVES, IBC SEISMICALLY RATED UNIT, FREEZE PROTECTION (EXTERNAL T-STAT CONTROL), FACTORY INSULATION ON ALL COLD PARTS, FULL FACTORY REFRIGERANT CHARGE (R410A), STANDARD COOLING, LANCED ALUMINUM FINS, CROSS THE LINE STARTER/DIRECT ON LINE, SINGLE POINT POWER CONNECTION WITH TERMINAL BLOCK CONN. FOR INCOMING LINES, WATER TIGHT PER UL 1995 STANDARD, SACKET INTERFACE FOR BWS, DUAL, HIGH HEAD PUMP WITH PUMP FLOW CONTROLLED BY VARIABLE SPEED DRIVE, SEISMICALLY RATED ISOLATORS, WATER STRAINER FACTORY-INSTALLED, COMPREHENSIVE ACOUSTIC PACKAGE, STANDARD PAINT & PHASE REVERSAL PROTECTION.
- COMPLETE WITH INTERNAL EXPANSION TANK AND 140 GALLON BUFFER TANK.

SYMBOL	EQUIP. NO.	TOTAL CFM	COOLING		FILTER		ELECTRICAL				BASIS OF DESIGN							
			SENSIBLE MBH	TOTAL MBH	QTY	TYPE	SIZE	MCA	MOP	HP	VOLT	PH	Hz	RPM	WEIGHT	MANUFACTURER	MODEL	REMARKS
FCU	1	1200 CFM	27.7	37.5	1	THROWAWAY	20"x20"x1"	4	15	0.330 hp	208 V	1	60 Hz	1050	140	Trane	GAMA0A30	PAIRED WITH FCU-1

SYMBOL	EQUIP. NO.	LOCATION	TOTAL COOLING BTU/H	STEPS	AMB SUMMER TEMP	AMB WINTER TEMP	COMPRESSOR QTY	FAN QTY	ELECTRICAL				BASIS OF DESIGN			
									MCA	MCB	FAN HP	EER RATING	WEIGHT	MANUFACTURER	MODEL	REMARKS
CU	1	ROOF	37500	1	105	40	1	1	15	25	0.125 hp	12	230	Trane	4ATTA3036	PAIRED WITH FCU-1

SYMBOL	SYMBOL NO.	ROOM #/S	SERVICE	INLET SIZE IN	PRIMARY AIR COOLING (CFM)		WO SP	MAX NC	ELECTRICAL (SEE NOTE 5)		HEATING COIL				WATER				BASIS OF DESIGN		REMARKS
					MAX CFM	MIN CFM			24V TRANSFORMER	ELEC SERVED FROM VAV	HTG CFM	BTUH	EAT	LAT	GPM	PODFT WG	VALVE	MIN ROWS	MANUFACTURER	MODEL	
VAV	101	BULK STORAGE 118	ROOM 118/120	8	480 CFM	160 CFM	0.72	23	109	160 CFM	6070.0 Btu/h	55	90	0.36 GPM	0.12	2-WAY	1	Price Industries	SDV Series		
VAV	102	PHARMACY 108	ROOM 111/114/115/118	8	620 CFM	620 CFM	0.98	25	109	620 CFM	25440.0 Btu/h	55	95	2.00 GPM	0.63	2-WAY	2	Price Industries	SDV Series		
VAV	103	INTAKE/ISSUING WINDOWS 106	ROOM 106/107	6	375 CFM	375 CFM	1.12	21	105	375 CFM	5080.0 Btu/h	55	98	0.83 GPM	0.34	2-WAY	1	Price Industries	SDV Series		
VAV	104	PHARMACY 108	ROOM 108	16	2000 CFM	2000 CFM	0.34	26	105	2000 CFM	103110.0 Btu/h	55	102	7.04 GPM	6.29	2-WAY	2	Price Industries	SDV Series		
VAV	105	CORRIDOR 103	ROOM 102-2	14	2600 CFM	870 CFM	0.97	22	X	870 CFM	35880.0 Btu/h	55	93	2.45 GPM	1.37	2-WAY	1	Price Industries	SDV Series		
VAV	106	CO-PAY TECHNICIAN 107	ROOM 101-2	8	380 CFM	130 CFM	1.1	21	105	130 CFM	4820.0 Btu/h	55	90	0.34 GPM	0.08	3-WAY	1	Price Industries	SDV Series	NO REHEAT COIL REQUIRED FOR THIS VAV BOX	
VAV	107	CORRIDOR 116	ROOM 117	8	850 CFM	285 CFM	0.98	25	109	0 CFM	0.0 Btu/h	0	0	0.00 GPM	0	N/A	0	Price Industries	SDV Series		
VAV	108	BULK STORAGE 118	ROOM 122	8	165 CFM	70 CFM	0.72	23	109	70 CFM	3410.0 Btu/h	55	103	0.30 GPM	0.1	2-WAY	1	Price Industries	SDV Series		
VAV	109	CORRIDOR 110	ROOM 112	8	165 CFM	70 CFM	0.72	23	X	70 CFM	3500.0 Btu/h	55	104	0.34 GPM	1.28	2-WAY	1	Price Industries	SDV Series		
VAV	201	OBCC PHARMACISTS 218	ROOM 207/213/214	14	850 CFM	255 CFM	0.92	23	X	255 CFM	9690.0 Btu/h	55	90	0.71 GPM	0.15	2-WAY	1	Price Industries	SDV Series		
VAV	202	OBCC PHARMACISTS 218	ROOM 215/216	14	1625 CFM	490 CFM	0.92	23	201	490 CFM	8000.0 Btu/h	55	102	1.63 GPM	0.69	2-WAY	1	Price Industries	SDV Series		
VAV	203	CONFERENCE ROOM 220	ROOM 219/220	8	670 CFM	200 CFM	0.84	22	X	200 CFM	7630.0 Btu/h	55	90	0.42 GPM	0.09	2-WAY	1	Price Industries	SDV Series		
VAV	204	RESIDENTS/STUDENTS 208	ROOM 208	6	450 CFM	135 CFM	1.07	23	205	135 CFM	7000.0 Btu/h	55	103	1.10 GPM	0.1	2-WAY	1	Price Industries	SDV Series		
VAV	205	RESIDENTS/STUDENTS 208	ROOM 209	10	600 CFM	180 CFM	1.05	25	X	180 CFM	8000.0 Btu/h	55	86	0.30 GPM	0.36	2-WAY	1	Price Industries	SDV Series		
VAV	206	CONFERENCE ROOM 220	ROOM 204/205	8	420 CFM	135 CFM	1.08	22	203	135 CFM	5400.0 Btu/h	55	92	0.32 GPM	0.69	2-WAY	1	Price Industries	SDV Series		
VAV	207	CONFERENCE ROOM 220	ROOM 201/202	8	750 CFM	225 CFM	0.85	22	203	225 CFM	8540.0 Btu/h	55	90	0.73 GPM	0.09	2-WAY	1	Price Industries	SDV Series		
VAV	208	STAFF LOUNGE 219	ROOM 210/211	14	380 CFM	115 CFM	0.92	23	205	115 CFM	4500.0 Btu/h	55	91	0.31 GPM	0.31	2-WAY	1	Price Industries	SDV Series		
VAV	209	OBCC PHARMACISTS 218	ROOM 216	10	200 CFM	70 CFM	1.02	25	201	0 CFM	0.0 Btu/h	0	0	0.00 GPM	0	N/A	0	Price Industries	SDV Series	NO REHEAT COIL REQUIRED FOR THIS VAV BOX	
VAV	210	CORRIDOR 202	ROOM 206	8	240 CFM	75 CFM	1.08	22	203	75 CFM	3650.0 Btu/h	55	101	0.31 GPM	0.31	3-WAY	1	Price Industries	SDV Series		
VAV	211	MECH 221	ROOM 221	6	350 CFM	105 CFM	1.12	21	201	0 CFM	0.0 Btu/h	0	0	0.00 GPM	0	N/A	0	Price Industries	SDV Series	NO REHEAT COIL REQUIRED FOR THIS VAV BOX	
VAV	212	RESIDENTS/STUDENTS 208	ROOM 201A	6	400 CFM	180 CFM	1.12	21	203	0 CFM	0.0 Btu/h	0	0	0.00 GPM	0	N/A	0	Price Industries	SDV Series	NO REHEAT COIL REQUIRED FOR THIS VAV BOX	

- BOX WIDE OPEN STATIC PRESSURE LOSS, IN W.G. INCLUDING HEATING COIL.
- MAXIMUM MANUFACTURER'S RATED NC AT STATIC PRESSURE DROP OF 1.5" W.G. BASED ON 10 DB-12 ROOM ABSORPTION, 3" ACOUSTICAL LINED PLENUM, DISCHARGE DUCT & END REFLECTION DUE TO A SINGLE DIFFUSER (NOTE: ACTUAL INSTALLATION MAY VARY FROM BASIS OF RATING).
- 3/4" HHWSR BRANCH LINES TO EACH COIL, UNLESS OTHERWISE SHOWN ON DRAWINGS.
- UNITS TO COMPLETE WITH PRESSURE INDEPENDENT PRIMARY AIR CONTROL, MULTI-POINT INLET VELOCITY SENSOR, BOTTOM ACCESS, 3" LONG INTERGRAL FIBER-FREE PLENUM DISCHARGE BOX.
- ELECTRICAL TO POWER VAV & PROVIDE INTERGRAL 24V TRANSFORMER PER THIS COLUMN/SCHEDULE. ALL BOXES WITHOUT TRANSFORMERS ARE TO BE FED FROM VAV PER THIS COLUMN/SCHEDULE.

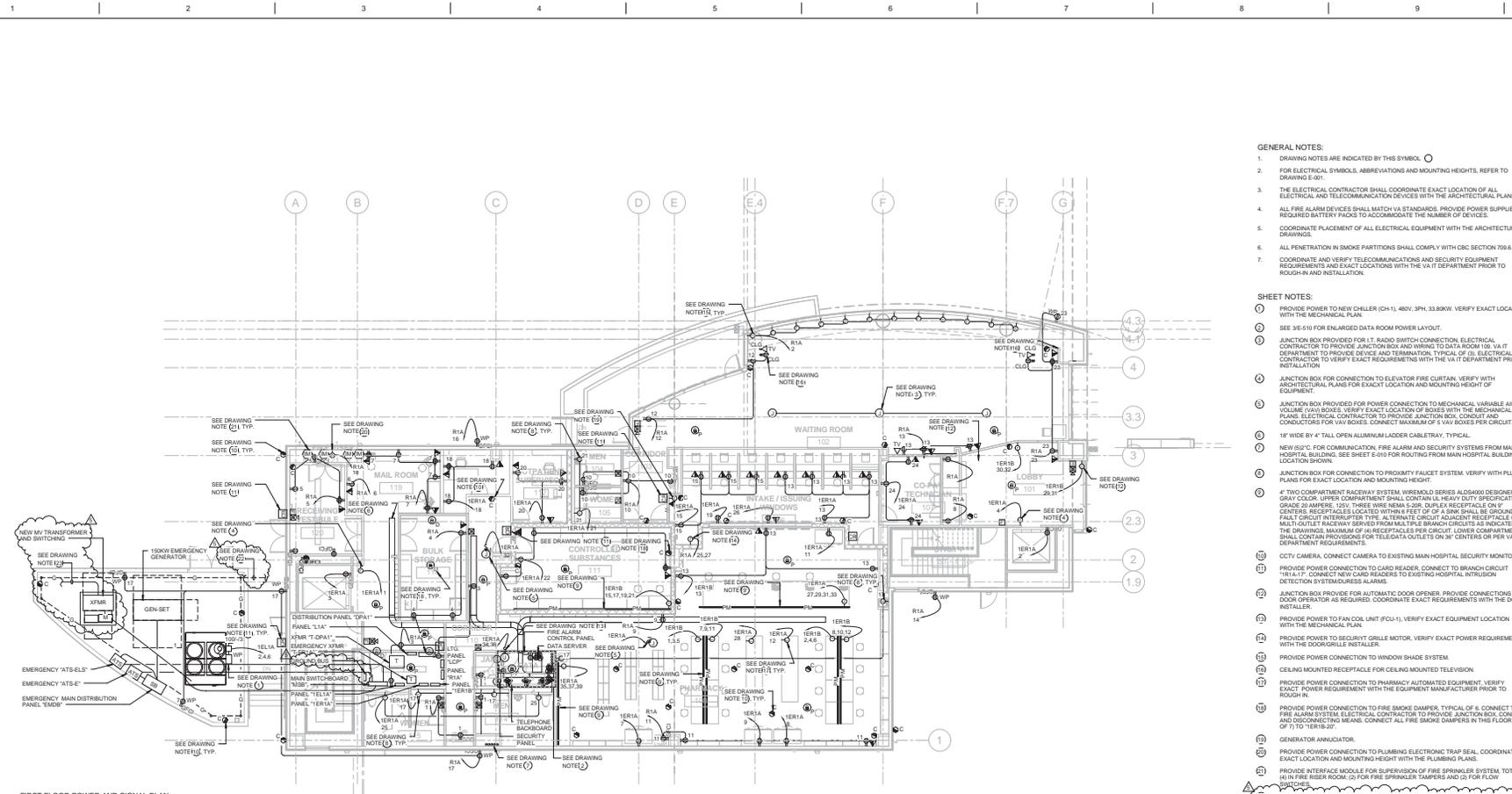
SYMBOL	EQUIP. NO.	SERVICE	CFM	MIN. CFM	SP	HP	BHP	ELECTRICAL				BASIS OF DESIGN			
								VOLT	PH	Hz	RPM	WEIGHT	MANUFACTURER	MODEL	REMARKS
EF	1	RESTROOMS	1270 CFM	0 CFM	0.87 in-wg	0.750 hp	0.340 hp	460 V	3	60 Hz	1725	375	Greenheck	13-BISW-21	MINIMUM CFM DOES NOT APPLY TO THIS EXHAUST FAN. SEE NOTE 1
EF	2	PHARMACY	2750 CFM	1850 CFM	0.75 in-wg	1.500 hp	0.940 hp	460 V	3	60 Hz	1725	475	Greenheck	16-BISW-41	SEE NOTE 1, 2

- COMPLETE WITH THE FOLLOWING ACCESSORIES: ARRANGEMENT 10, CLASS 1 TYPE FAN, HIGH EFFICIENCY MOTOR, GRAVITY DAMPER, 1" DRAIN CONNECTION WITH PLUG, STEEL WEATHERGUARD, MOTOR WITH CLASS B INSULATION, OUTLET GUARD/FLANGE, SPARE SET BELTS, COATED WITH HI-PRO ZINC DARK GREY COLOR, SEALED HOUSING FOR OUTDOOR USE. STRUCTURAL BASE/VIBRATION ISOLATORS FROM M.W. SUASSE PER DETAIL 1 ON SHEET M-512.
- COMPLETE WITH THE FOLLOWING ACCESSORIES: VFD, AIRFLOW MONITORING STATION AND WILL SLOW DOWN/STOPPED UP BY TRACKING 24V VAV-104.

AIR DEVICE SCHEDULE			
SYMBOL NO.	MANUFACTURER	MODEL	REMARKS
CD-1	Price Industries	SCD Series	
CD-2	Price Industries	510 Series	
EG-1	Price Industries	PDOR Series	
RG-1	Price Industries	PDOR Series	
RG-2	Price Industries	630 Series	

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ISSUED FOR 100% SUBMITTAL
NOT FOR CONSTRUCTION



1 FIRST FLOOR POWER AND SIGNAL PLAN
1/8" = 1'-0"

- GENERAL NOTES:**
1. DRAWING NOTES ARE INDICATED BY THIS SYMBOL: ○
 2. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND MOUNTING HEIGHTS, REFER TO DRAWING E-01.
 3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL ELECTRICAL AND TELECOMMUNICATION DEVICES WITH THE ARCHITECTURAL PLANS.
 4. ALL FIRE ALARM DEVICES SHALL MATCH VA STANDARDS. PROVIDE POWER SUPPLIES AND REQUIRED BATTERY PACKS TO ACCOMMODATE THE NUMBER OF DEVICES.
 5. COORDINATE PLACEMENT OF ALL ELECTRICAL EQUIPMENT WITH THE ARCHITECTURAL DRAWINGS.
 6. ALL PENETRATION IN SMOKE PARTITIONS SHALL COMPLY WITH CBC SECTION 709.6.
 7. COORDINATE AND VERIFY TELECOMMUNICATIONS AND SECURITY EQUIPMENT REQUIREMENTS AND EXACT LOCATIONS WITH THE VA IT DEPARTMENT PRIOR TO ROUGH-IN AND INSTALLATION.

- SHEET NOTES:**
1. PROVIDE POWER TO NEW CHILLER (CH-1), 480V, 3PH, 33.8KW. VERIFY EXACT LOCATION WITH THE MECHANICAL PLAN.
 2. SEE 3E-610 FOR ENLARGED DATA ROOM POWER LAYOUT.
 3. JUNCTION BOX PROVIDED FOR 1" RACED SWITCH CONNECTION. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX AND WIRING TO DATA ROOM (S). VA IT DEPARTMENT TO PROVIDE DEVICE AND TERMINATION. TYPICAL OF (S). ELECTRICAL CONTRACTOR TO VERIFY EXACT REQUIREMENTS WITH THE VA IT DEPARTMENT PRIOR TO INSTALLATION.
 4. JUNCTION BOX FOR CONNECTION TO ELEVATOR FIRE CURTAIN. VERIFY WITH ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT OF EQUIPMENT.
 5. JUNCTION BOX PROVIDED FOR POWER CONNECTION TO MECHANICAL VARIABLE AIR VOLUME (VAV) BOXES. VERIFY EXACT LOCATION OF BOXES WITH THE MECHANICAL PLANS. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX, CONDUIT AND CONDUCTORS FOR VAV BOXES. CONNECT MAXIMUM OF 3 VAV BOXES PER CIRCUIT.
 6. NEW 18" O.D. FOR COMMUNICATION, FIRE ALARM AND SECURITY SYSTEMS FROM MAIN HOSPITAL BUILDING. SEE SHEET E-010 FOR ROUTING FROM MAIN HOSPITAL BUILDING TO LOCATION SHOWN.
 7. JUNCTION BOX FOR CONNECTION TO PROXIMITY FAULT SYSTEM. VERIFY WITH PLUMBING PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT.
 8. IF TWO COMPARTMENT RACEWAY SYSTEM WHEREBOLD DESIGNER GRAY COLOR. UPPER COMPARTMENT SHALL CONTAIN ALL HEAVY DUTY DISTRIBUTION RACEWAY LOCATED WITHIN 6 FEET OF A SINK SHALL BE GROUND FAULT CIRCUIT INTERRUPTER TYPE. ALTERNATE CIRCUIT ALIGNMENT RECEPTACLE ON MULTI-OUTLET RACEWAY SERVED FROM MULTIPLE BRANCH CIRCUITS AS INDICATED IN THE DRAWINGS. MAXIMUM OF 4 RECEPTACLES PER CIRCUIT. UPPER COMPARTMENT SHALL CONTAIN PROVISIONS FOR TELEDATA OUTLETS ON 36" CENTERS OR PER VA IT DEPARTMENT REQUIREMENTS.
 9. CCTV CAMERA. CONNECT CAMERA TO EXISTING MAIN HOSPITAL SECURITY MONITOR.
 10. PROVIDE POWER CONNECTION TO CARD READER. CONNECT TO BRANCH CIRCUIT "RIA 17". CONNECT NEW CARD READER TO EXISTING HOSPITAL INTRUSION DETECTION SYSTEM ADDRESS ALARMS.
 11. JUNCTION BOX PROVIDED FOR AUTOMATIC DOOR OPENER. PROVIDE CONNECTIONS TO DOOR OPERATOR AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH THE DOOR INSTALLER.
 12. PROVIDE POWER TO FAN COOL UNIT (FCU-1). VERIFY EXACT EQUIPMENT LOCATION WITH THE MECHANICAL PLAN.
 13. PROVIDE POWER TO SECURITY GRILLE MOTOR. VERIFY EXACT POWER REQUIREMENTS WITH THE DOOR/GRILLE INSTALLER.
 14. PROVIDE POWER CONNECTION TO WINDOW SHADE SYSTEM.
 15. CEILING MOUNTED RECEPTACLE FOR CEILING MOUNTED TELEVISION.
 16. PROVIDE POWER CONNECTION TO PHARMACY AUTOMATED EQUIPMENT. VERIFY EXACT POWER REQUIREMENTS WITH THE EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
 17. PROVIDE POWER CONNECTION TO FIRE SMOKE DAMPER. TYPICAL OF (6). CONNECT TO FIRE ALARM SYSTEM ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX, CONDUIT AND DISCONNECTING MEANS. CONNECT ALL FIRE SMOKE DAMPERS IN THIS FLOOR MAX. OF 1" TO TERB-20.
 18. GENERATOR ANNUNCIATOR.
 19. PROVIDE POWER CONNECTION TO PLUMBING ELECTRONIC TRAP SEAL. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH THE PLUMBING PLANS.
 20. PROVIDE INTERFACE MODULE FOR SUPERVISION OF FIRE SPRINKLER SYSTEM. TOTAL OF (4) IN FIRE RISER ROOM. (2) FOR FIRE SPRINKLER TAMPERS AND (2) FOR FLOW SWITCHES.
 21. PROVIDE GROUND ROD AND GROUND WIRE IN THE EQUIPMENT ROOM. CONNECT TO GROUNDING BUS INSIDE THE MAIN ELECTRICAL ROOM.
 22. FEEDER TO UNIT SUBSTATION "US-6A". PROVIDE FEEDER INSIDE NEW BELOW GRADE DUCT BANK. SEE SHEET E-610 FOR FEEDER AND DUCT BANK ROUTING AND SEE SINGLE LINE DIAGRAM FOR FEEDER SIZE.

one eighth inch = one foot
 one quarter inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one inch = one foot
 one and one half inch = one foot
 two inches = one foot
 three inches = one foot
 four inches = one foot
 five inches = one foot
 six inches = one foot
 seven inches = one foot
 eight inches = one foot
 nine inches = one foot
 ten inches = one foot
 eleven inches = one foot
 twelve inches = one foot
 thirteen inches = one foot
 fourteen inches = one foot
 fifteen inches = one foot
 sixteen inches = one foot
 seventeen inches = one foot
 eighteen inches = one foot
 nineteen inches = one foot
 twenty inches = one foot
 twenty one inches = one foot
 twenty two inches = one foot
 twenty three inches = one foot
 twenty four inches = one foot
 twenty five inches = one foot
 twenty six inches = one foot
 twenty seven inches = one foot
 twenty eight inches = one foot
 twenty nine inches = one foot
 thirty inches = one foot
 thirty one inches = one foot
 thirty two inches = one foot
 thirty three inches = one foot
 thirty four inches = one foot
 thirty five inches = one foot
 thirty six inches = one foot
 thirty seven inches = one foot
 thirty eight inches = one foot
 thirty nine inches = one foot
 forty inches = one foot
 forty one inches = one foot
 forty two inches = one foot
 forty three inches = one foot
 forty four inches = one foot
 forty five inches = one foot
 forty six inches = one foot
 forty seven inches = one foot
 forty eight inches = one foot
 forty nine inches = one foot
 fifty inches = one foot
 fifty one inches = one foot
 fifty two inches = one foot
 fifty three inches = one foot
 fifty four inches = one foot
 fifty five inches = one foot
 fifty six inches = one foot
 fifty seven inches = one foot
 fifty eight inches = one foot
 fifty nine inches = one foot
 sixty inches = one foot
 sixty one inches = one foot
 sixty two inches = one foot
 sixty three inches = one foot
 sixty four inches = one foot
 sixty five inches = one foot
 sixty six inches = one foot
 sixty seven inches = one foot
 sixty eight inches = one foot
 sixty nine inches = one foot
 seventy inches = one foot
 seventy one inches = one foot
 seventy two inches = one foot
 seventy three inches = one foot
 seventy four inches = one foot
 seventy five inches = one foot
 seventy six inches = one foot
 seventy seven inches = one foot
 seventy eight inches = one foot
 seventy nine inches = one foot
 eighty inches = one foot
 eighty one inches = one foot
 eighty two inches = one foot
 eighty three inches = one foot
 eighty four inches = one foot
 eighty five inches = one foot
 eighty six inches = one foot
 eighty seven inches = one foot
 eighty eight inches = one foot
 eighty nine inches = one foot
 ninety inches = one foot
 ninety one inches = one foot
 ninety two inches = one foot
 ninety three inches = one foot
 ninety four inches = one foot
 ninety five inches = one foot
 ninety six inches = one foot
 ninety seven inches = one foot
 ninety eight inches = one foot
 ninety nine inches = one foot
 one hundred inches = one foot

Revisions	Date	By	Check
5	08.16.12		
4	08.17.12		
3	07.27.12		
2	08.21.12		
1	08.06.12		

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Approved: VA Project Engineer
 Approved: Chief, Project Section
 Approved: Chief, Maint. & Operations Office
 Approved: Chief, Engineering Dept.

Approved: Chief, Env. of Care Dept.
 Approved: Chief, Env. Management Dept.
 Approved: Dr. Facilities Management
 Approved: Chief, Medical Office

Drawing Title
FIRST FLOOR POWER AND SIGNAL PLAN

Approved: VP, Administration Support
 Approved: C.E.O.

Project Title
VA Loma Linda Healthcare System A/E of Pharmacy

Location
 11201 BENTON STREET
 LOMA LINDA, CA 92358

Date
 08.17.12

Checked
 Author

Project Number
 605-327

Building Number
 24

Drawing Number
E-210

Checked
 Author

Project Designer
 Greg Weimholt

Office of Construction and Facilities Management
 Department of Veterans Affairs

ISSUED FOR 100% SUBMITTAL
 NOT FOR CONSTRUCTION

