

MECHANICAL LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
∅	DIA	DIAMETER
		CEILING MOUNTED SUPPLY OR OUTSIDE AIR DIFFUSER
		CEILING MOUNTED RETURN AIR GRILLE
		CEILING MOUNTED EXHAUST AIR GRILLE
		SIDEWALL MOUNTED SUPPLY AIR DIFFUSER, RETURN AIR GRILLE, LOUVER
	24X12, 24X12 FO	RECTANGULAR, FLAT OVAL DUCT
		RECTANGULAR SUPPLY / OA, RETURN, EXHAUST / RELIEF DUCT PASSING THROUGH PLAIN OF VIEW
		RECTANGULAR SUPPLY / OA, RETURN, EXHAUST / RELIEF DUCT TURNING DOWN
	12∅	ROUND DUCT
		ROUND DUCT TURNING DOWN, ROUND DUCT TURNING UP
		90° ELBOW WITH TURNING VANES
		FLEXIBLE DUCT 60" MAX LENGTH
	FC	FLEXIBLE CONNECTION
	VD	MANUAL VOLUME DAMPER
	AC-#	THERMOSTAT, SUBSCRIPT INDICATES UNIT CONTROLLED
		TEMPERATURE SENSOR
	POC OR POD	POINT OF CONNECTION, POINT OF DISCONNECTION
		ITEMS RELATED TO THE MECHANICAL SYSTEM TO BE REMOVE

PIPING LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
		3-WAY VALVE
		2-WAY VALVE
		BALL VALVE
		FLOW CONTROL VALVE
		UNION
		FLEXIBLE PIPE CONNECTION
	AAV	AUTOMATIC AIR VENT
	MAV	MANUAL AIR VENT
		TEST PORT
		STRAINER WITH BLOW DOWN VALVE
		PIPE DOWN
		PIPE UP
		PIPE TEE DOWN
	POC OR POD	POINT OF CONNECTION OR POINT OF DISCONNECT
	HHWS	HEATING HOT WATER SUPPLY
	HHWR	HEATING HOT WATER RETURN

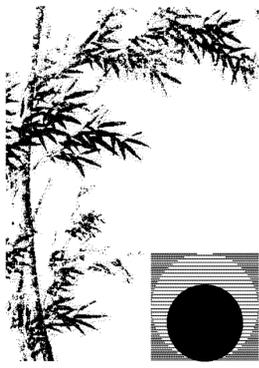
MECHANICAL ABBREVIATIONS			
AC	AIR CONDITION, AIR CONDITIONING, AIR CONDITIONED	HZ	HERTZ
ABV	ABOVE	IDU	INDOOR UNIT
AFB	ABOVE FINISHED FLOOR	IWC	INCHES OF WATER COLUMN
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	KW	KILOWATT
AHJ	AUTHORITY HAVING JURISDICTION	LBS	POUNDS
AHU	AIR HANDLING UNIT	LWT	LEAVING WATER TEMPERATURE
ALUM	ALUMINUM	MBH	1000 BRITISH THERMAL UNITS PER HOUR
AMB	AMBIENT	MCA	MINIMUM CIRCUIT AMPS
ARCH	ARCHITECT, ARCHITECTURAL	MFGR	MANUFACTURE OR MANUFACTURER
ARI	AMERICAN REFRIGERATION INSTITUTE	MIN	MINIMUM
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	MUA	MAKE-UP AIR
BDD	BACK DRAFT DAMPER	(N)	NEW
BOD	BASIS OF DESIGN	NL	NOT LISTED
BEL	BELOW	NOM	NOMINAL
BHP	BREAK HORSE POWER	NTS	NOT TO SCALE
BLDG	BUILDING	OA	OUTSIDE AIR
BTUH	BRITISH THERMAL UNIT PER HOUR	OAI	OUTSIDE AIR INTAKE
CA	COMBUSTION AIR	OB	OPPOSED BLADE DAMPER
CD	CONDENSATE DRAIN	ODU	OUTDOOR UNIT
CFD	CEILING FIRE DAMPER	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
CFM	CUBIC FEET PER MINUTE	PD	PRESSURE DROP
CONT	CONTINUATION	PSI	POUNDS PER SQUARE INCH
CSD	CEILING SMOKE DAMPER	RA	RETURN AIR
DB	DRY BULB TEMPERATURE	REFRIG	REFRIGERANT, REFRIGERATION
DSA	DIVISION OF THE STATE ARCHITECT	DM	DOWN
(E)	EXISTING	RPM	REVOLUTIONS PER MINUTE
EA	EXHAUST AIR	SA	SUPPLY AIR
EC	EVAPORATIVE COOLER	SEER	SEASONAL ENERGY EFFICIENCY RATION
EDB	ENTERING DRY BULB TEMPERATURE	SHT	SHEET
EER	ENERGY EFFICIENCY RATIO	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
EFF	EFFICIENCY	SOV	SHUT OFF VALVE
ELEC	ELECTRICAL	SP	STATIC PRESSURE
ESP	EXTERNAL STATIC PRESSURE	SS	STAINLESS STEEL
EWB	ENTERING WET BULB	SSE	STEADY STATE EFFICIENCY
EWT	ENTERING WATER TEMPERATURE	SST	SATURATED SUCTION TEMPERATURE
FA	FROM ABOVE	TEMP	TEMPORARY, TEMPERATURE
FC	FLEXIBLE CONNECTION	TSP	TOTAL STATIC PRESSURE
FD	FIRE DAMPER	TXV	THERMAL EXPANSION VALVE
FLA	FULL LOAD AMPS	UN	UNLESS OTHERWISE NOTED
FBM	FEET PER MINUTE	UTR	UP TO OR UP THROUGH ROOF
FSC	FAN SPEED CONTROLLER	VD	VOLUME DAMPER
FSD	FIRE/SMOKE DAMPER	VES	VEHICLE EXHAUST SYSTEM
GA	GAGE, GAUGE	VRF	VARIABLE REFRIGERANT VOLUME
GALV	GALVANIZED	WB	WET BULB TEMPERATURE
GPM	GALLONS PER MINUTE	WC	WATER COLUMN
GYP	GYPSPUM	WG	WATER GAUGE
HD	HEAD	WT	WEIGHT EXPRESSED IN POUNDS
HP	HORSE POWER		

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SHEET INDEX	
SHEET NUMBER	SHEET TITLE
M0.0	MECHANICAL GENERAL
M0.1	MECHANICAL SCHEDULES
M0.2	MECHANICAL DETAILS
M0.3	MECHANICAL DETAILS
M2.0	MECHANICAL DEMOLITION FLOOR PLAN
M3.0	MECHANICAL FLOOR PLAN
MC1.0	MECHANICAL CONTROLS

MECHANICAL GENERAL NOTES	
1	THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK. DUCTWORK, PIPING, AND EQUIPMENT, AS SHOWN, ARE SCHEMATIC. FABRICATE AND INSTALL BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES. ADHERE TO LOCATIONS AS CLOSELY AS POSSIBLE. VARY RUNS OR SHAPE OF DUCTWORK AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCES AS REQUIRED BY THE ARCHITECT. PROVIDE A COMPLETE SET OF SHOP DRAWINGS REFLECTING ACTUAL DIMENSIONS, ACCESS REQUIREMENTS, AND DETAILS BASED UPON THE ACTUAL EQUIPMENT PROCURED. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.
2	THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL ITEMS RELATED TO MECHANICAL SYSTEMS WITH THE WORK OF OTHER TRADES BEFORE PROCEEDING WITH PROCURING OR FABRICATION OF EQUIPMENT, DUCTWORK, PIPING ETC. ITEMS TO BE COORDINATED SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:  GRILLES, REGISTERS AND DIFFUSERS SHALL BE COORDINATED WITH THE REFLECTED CEILING PLAN.  DUCTWORK LOCATIONS AND POTENTIAL INTERFERENCES WITH STRUCTURAL MEMBERS, FRAMING, FIRE SINKLER LINES, PLUMBING WASTE LINES, CABLE TRAYS AND CONDUIT.  OPENINGS REQUIRED IN WALLS, FLOORS OR CEILINGS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND/OR FRAMING CONTRACTOR PRIOR TO THE START OF CONSTRUCTION TO AVOID REWORK. ANY REWORK REQUIRED SHALL BE AT NO ADDITIONAL COST TO THE OWNER.  PRIOR TO BIDDING THE PROJECT THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR TO DETERMINE WHO WILL BE RESPONSIBLE FOR PROCURING AND INSTALLING CONDUIT FOR LOW VOLTAGE CONTROLS.  ACCESS TO VOLUME DAMPERS FOR BALANCING. ACCESS TO ALL EQUIPMENT, AS WELL AS PLATFORM AND CURB LOCATIONS.  CONSTRUCTION OF PLATFORMS AND SHAPED RUNNERS OR OTHER MEANS TO MOUNT CURBS LEVEL. ALL PLATFORMS AND CURBS SHALL BE LEVEL UNLESS OTHERWISE NOTED OR DETAILED ON THE MECHANICAL PLANS.
3	COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING CODES:  2016 CALIFORNIA ADMINISTRATIVE CODE (CAC); PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) 2016 CALIFORNIA BUILDING CODE (CBC); PART 2, TITLE 24 CCR 2016 CALIFORNIA ELECTRICAL CODE (CEC); PART 3, TITLE 24 CCR 2016 CALIFORNIA MECHANICAL CODE (CMC); PART 4, TITLE 24 CCR 2016 CALIFORNIA PLUMBING CODE (CPC); PART 5, TITLE 24 CCR 2016 CALIFORNIA ENERGY CODE (CENC); PART 6, TITLE 24 CCR 2016 CALIFORNIA FIRE CODE (CFC); PART 9, TITLE 24 CCR 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN); PART 11, TITLE 24 CCR  REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.
4	REVIEW ALL DRAWINGS AND SPECIFICATIONS INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY QUESTIONS SHALL BE BROUGHT UP, IN WRITING, TO THE ATTENTION OF THE ENGINEER BEFORE THE START OF CONSTRUCTION.
5	ALL EQUIPMENT SHALL BE INSTALLED WITH SUFFICIENT ACCESS TO CONTROLS, FILTERS, ELECTRIC MOTORS, ETC. ACCESS CLEARANCE SHALL BE 30" OR AS REQUIRED BY THE EQUIPMENT MANUFACTURER, WHICH EVER IS GREATER. CONTRACTORS SHALL PROVIDE ACCESS PANELS WHERE REQUIRED. WHERE VERTICAL SPACE ALLOWS, INSTALL DUCTWORK THAT IS IN CLOSE PROXIMITY TO MECHANICAL, ELECTRICAL OR ANY OTHER ITEM THAT REQUIRES ACCESS HIGH IN THE SPACE FOR EASE OF ACCESS.
6	HANDLE, STORE AND INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
7	BRACE AND SUPPORT PIPES, CONDUIT, AND DUCTWORK IN ACCORDANCE TO SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSTEM.
8	REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS, REGISTERS, GRILLES, AND ACCESS PANELS.
9	ALL DUCT DIMENSIONS, AS SHOWN ON MECHANICAL DRAWINGS ARE CLEAR INSIDE DIMENSIONS. INCREASE OUTER DUCT DIMENSION AS REQUIRED TO ACCOUNT FOR THE THICKNESS OF INTERNAL LINING WHERE APPLICABLE.
10	INSULATION AND FLEXIBLE DUCT SHALL COMPLY WITH STATE FIRE MARSHALL CRITERIA AND SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 PER ASTM-84, NFPA-223, AND UL 723.
11	INSULATE PIPING AND DUCTWORK IN ACCORDANCE TO THE GOVERNING CODES.
12	COMMISSION AND START-UP THE MECHANICAL SYSTEMS TO ASSURE A COMPLETE AND OPERATIONAL HVAC SYSTEM IN ACCORDANCE WITH ASHRAE AND NEBB.
13	ALL SQUARE ELBOWS IN SUPPLY DUCTWORK SHALL HAVE TURNING VANES. PROVIDE MANUAL VOLUME DAMPER AT EACH BRANCH DUCT TAKE-OFF SERVING EACH AIR TERMINAL DEVICE. PROVIDE BALANCING DAMPERS FOR EACH MAIN DUCT TAKE-OFF IN ACCORDANCE TO SMACNA IN ORDER TO ASSURE A COMPLETELY BALANCED SYSTEM.
14	CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE MOUNTED AT THE HEIGHTS GIVEN BY SECTION 11B-308.1 OF THE 2016 CBC. NOTIFY THE ARCHITECT IMMEDIATELY IF THE MOUNTING HEIGHTS REQUIRED BY THE 2016 CBC CANNOT BE OBTAINED AT THE LOCATION WHERE THE CONTROL DEVICE IS SHOWN ON THE MECHANICAL FLOOR PLANS.
15	ALL EQUIPMENT SHALL BE LABELED AS TO THE SPACE THEY ARE SERVING.
16	HABITABLE SPACE SHALL BE PROVIDED WITH A HEATING SYSTEM CAPABLE OF MAINTAINING A MINIMUM INDOOR TEMPERATURE OF 68°F AT POINT 3 FEET ABOVE THE FLOOR PER 2016 CBC 1204.
17	MATERIALS EXPOSED WITHIN ANY SPACE BEING USED AS AN AIR PLENUM SHALL BE NON COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50, WHEN TESTED AS A COMPOSITE PRODUCT IN ACCORDANCE WITH ONE OF THE FOLLOWING TEST METHODS: NFPA 255, METHOD OF TEST OF SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS; ASTM E84, SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS, OR UL 723, TEST FOR SURFACE BURNING CHARACTERISTIC OF BUILDING MATERIALS.
18	ANY MECHANICAL EQUIPMENT THAT PROVIDES POWER TO A ENERGIZED ACCESSORY MUST BE PROVIDED WITH A NAMEPLATE THAT REFLECTS THE ELECTRICAL CHARACTERISTICS OF THE COMPLETE SYSTEM AS INSTALLED WITH THE ENERGIZED ACCESSORY. NO EXCEPTIONS.

MECHANICAL TITLE 24 NOTES	
1	DUCTLESS SPLIT SYSTEM DS-1 AND DS-2 ARE SERVING A PROCESS LOAD IN AN EXEMPT PROCESS SPACE. SINCE THE PROCESS SPACE WILL BE KEPT BETWEEN 55°F AND 90°F AND IS NOT CLASSIFIED AS A COVERED PROCESS, IT IS EXEMPT.
ACCEPTANCE TESTING REQUIREMENTS	
BEFORE AN OCCUPANCY PERMIT IS GRANTED THE FOLLOWING EQUIPMENT AND SYSTEMS SHALL BE CERTIFIED AS MEETING THE ACCEPTANCE REQUIREMENTS FOR CODE COMPLIANCE, AS SPECIFIED BY THE REFERENCE NONRESIDENTIAL APPENDIX NA7. A CERTIFICATE OF ACCEPTANCE SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY THAT CERTIFIES THAT THE EQUIPMENT AND SYSTEMS MEET THE ACCEPTANCE REQUIREMENTS:	
1	DUCT SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH NA7.5.3.



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Sheet Description:	MECHANICAL GENERAL

Date:	08/08/20
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Of # sheets	

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DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE																							
TAG	MAKE	NOMINAL TONS	REFRIGERANT	ARI PERFORMANCE				INDOOR UNIT								OUTDOOR UNIT						REMARKS SEE BELOW	
				COOLING BTUH	HEATING BTUH AT 17°F	HEATING BTUH AT 47°F	EER	SEER [IEER]	HSPF [COP]	MODEL	INSTALLATION TYPE	POWERED BY OUTDOOR UNIT	CFM	WATTS	OPERATING WEIGHT LBS	INSTALLATION DETAIL	MODEL	POWER V/Hz	MCA	MOCP	OPERATING WEIGHT LBS		INSTALLATION DETAIL
DS 2	DAIKIN	2	R-410A	21,400	16,400	25,400	12.5	20.0	10.6	FTXS24LVJU	HIGHWALL	YES	700	48	35	10/M0.2	RXS24LVJU	208-230/1/60	17.5	20	160	11/M0.2	1-4.C1.C2

UNIT SPECIFIC NOTES:  
 1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING LINE VOLTAGE WIRING BETWEEN THE INDOOR AND OUTDOOR UNIT.  
 2. UNIT SHALL BE CONFIGURED FOR COOLING ONLY.  
 3. SIZE REFRIGERATION LINES PER THE MANUFACTURERS REQUIREMENTS FOR TOTAL DEVELOPED LINE LENGTH.  
 4. PROVIDE WITH CONDENSATE PUMP WITH SAFETY SWITCH TO SHUTDOWN UNIT WHEN HIGH WATER LEVEL IS DETECTED. PUMP SHALL BE INTERNALLY MOUNTED WITHIN THE INDOOR UNIT AND WIRED TO THE TERMINAL STRIP. NO EXPOSED INSTALLATIONS ALLOWED.

CONTROL NOTES:  
 C1. PROVIDE WITH MANUFACTURERS MODEL BRC9482 WIRED CONTROLLER.  
 C2. EMS SHALL MONITOR TEMPERATURE IN SPACE FOR ALARMING. REFER TO MC1.0.

VARIABLE AIR VOLUME BOX WITH REHEAT COIL SCHEDULE																									
TAG	MAKE	MODEL	SIZE		CFM		STATIC			ELECTRICAL DATA		HOT WATER REHEAT COIL								REMARKS SEE BELOW	INSTALLATION DETAIL				
			UNIT	OUTLET	MAX	MIN	HEATING	INLET	DOWN STREAM	MIN	POWER V/Hz	MAX AMPS	CAPACITY BTUH	AIR TEMP °F		APD	GPM	WATER TEMP °F				WPD	ROWS	FPI	CONTROL VALVE
VAV 1	TITUS	DESV	4	12x8	150	45	45	1.0	0.25	0.06	120/1/60	1	2,900	55	111	0.02	0.3	180.0	161.6	0.07	1	10	2-WAY	C1	1&5/M0.2
VAV 2	TITUS	DESV	12	16x15	1200	360	400	1.0	0.25	0.13	120/1/60	1	18,200	55	95	0.12	3.4	180.0	169.4	1.36	1	10	3-WAY	C1	1&5/M0.2
VAV 3	TITUS	DESV	14	20x17.5	2000	600	600	1.0	0.25	0.18	120/1/60	1	26,000	55	95	0.14	5.7	180.0	170.7	1.56	1	10	2-WAY	C1	1&5/M0.2
VAV 4	TITUS	DESV	9	14x12.5	800	240	240	1.0	0.25	0.14	120/1/60	1	10,400	55	95	0.10	1.2	180.0	162.7	0.17	1	10	2-WAY	C1	1&5/M0.2
VAV 5	TITUS	DESV	4	12x8	150	45	45	1.0	0.25	0.06	120/1/60	1	2,900	55	111	0.02	0.3	180.0	161.6	0.07	1	10	2-WAY	C1	1&5/M0.2

GENERAL NOTES APPLICABLE TO ALL UNITS:  
 1. SEE FLOOR PLAN FOR CONTROL BOX AND COIL CONNECTION SIDE.

CONTROL NOTES:  
 C1. REFER TO 2/MC1.0 FOR CONTROLS.

HEAT PUMP CONDENSING UNIT SCHEDULE																					
TAG	MATCHING UNIT TAG	MAKE	MODEL	NOMINAL TONS	REFRIGERANT	ELECTRICAL DATA			ARI PERFORMANCE					PIPING SIZE		OPERATING WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL			
						POWER V/Hz	MCA	MOCP	COOLING BTUH	SEER [IEER]	EER	HEATING BTUH AT 47°F	HEATING BTUH AT 17°F	HSPF [COP] AT 47°F	LIQUID				SUCTION		
DS 1	DS 1A DS 1B	DAIKIN	5MXS48TVJU	4.0	R-410A	208-230/1/60	33.2	35	47,000	20.2	10.5	48,500	31,000	11.1 [3.9]	NOTE 1	NOTE 1	225	1.2	9/M0.2		

UNIT SPECIFIC NOTES:  
 1. SIZE REFRIGERATION LINES PER MANUFACTURERS REQUIREMENTS FOR TOTAL DEVELOPED LINE LENGTH.  
 2. DISCONNECT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.

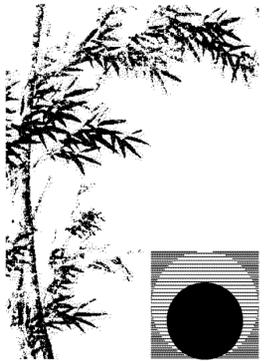
FAN COIL UNIT SCHEDULE																								
TAG	MATCHING UNIT TAG	MAKE	MODEL	NOMINAL TONS	REFRIGERANT	FAN				OAI CFM	ELECTRICAL DATA			ARI PERFORMANCE					MERV 13 FILTER SIZE	OPERATING WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL		
						CFM	SPEED	ESP	WATTS [BHP]		POWER V/Hz	AUXILIARY ELECTRIC HEAT KW	MCA	MOCP	COOLING BTUH	SEER [IEER]	EER	HEATING BTUH AT 47°F					HEATING BTUH AT 17°F	HSPF [COP]
DS 1A	DS 1	DAIKIN	FTXS24LVJU	2.0	R-410A	643	HIGH	NA	69	NA	208-230/1/60	NA	NOTE 5	NOTE 5	23,500	20.2	10.5	24,250	15,500	11.1 [3.9]	NA	35	1-4.C1.C2	10/M0.2
DS 1B	DS 1	DAIKIN	FTXS24LVJU	2.0	R-410A	643	HIGH	NA	69	NA	208-230/1/60	NA	NOTE 5	NOTE 5	23,500	20.2	10.5	24,250	15,500	11.1 [3.9]	NA	35	1-4.C1.C2	10/M0.2

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 5. INDOOR UNITS ARE POWERED BY THE OUTDOOR UNIT.

CONTROL NOTES:  
 C1. PROVIDE WITH MANUFACTURERS MODEL BRC9482 WIRED CONTROLLER. DS-1A AND DS-1B TO BE CONTROLLED BY THE SAME CONTROLLER.  
 C2. EMS SHALL MONITOR TEMPERATURE IN SPACE FOR ALARMING. REFER TO MC1.0.

COMMERCIAL GRILLE, REGISTER, DIFFUSER, LOUVER SCHEDULE										
TAG	TYPE	MAKE	MODEL	BORDER TYPE		CONSTRUCTION	FINISH	IMAGE	REMARKS	INSTALLATION DETAIL
				GYP BOARD CEILING OR WALL	LAY-IN CEILING					
R1	CEILING RETURN	TITUS	PAR	1	3	STEEL	MATTE BLACK		MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO INSURE OPENINGS IN HARD CEILINGS AND WALLS ARE CORRECTLY SIZED TO ACCOMMODATE THE SPECIFIED BORDER TYPE. NO EXCEPTIONS	7/M0.2
R2	CEILING RETURN WITH INTEGRAL FIRE DAMPER	TITUS	PAR-FR	1	3	STEEL	WHITE		MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO INSURE OPENINGS IN HARD CEILINGS AND WALLS ARE CORRECTLY SIZED TO ACCOMMODATE THE SPECIFIED BORDER TYPE. NO EXCEPTIONS	14/M0.3
R3	CEILING OR SIDEWALL RETURN AND EXHAUST	TITUS	355RL	1	3	STEEL	WHITE		ALL RETURN OR EXHAUST GRILLES MOUNTED IN LAY-IN CEILINGS SHALL HAVE 22X22 NECK SIZE FOR AIR FLOW RANGE 0-1875CFM. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO INSURE OPENINGS IN HARD CEILINGS AND WALLS ARE CORRECTLY SIZED TO ACCOMMODATE THE SPECIFIED BORDER TYPE. NO EXCEPTIONS	NA

COMMERCIAL GRILLE, REGISTER, DIFFUSER, LOUVER SCHEDULE										
TAG	TYPE	MAKE	MODEL	BORDER TYPE		CONSTRUCTION	FINISH	IMAGE	REMARKS	INSTALLATION DETAIL
				GYP BOARD CEILING OR WALL	LAY-IN CEILING					
S1	CEILING SUPPLY	TITUS	TDC	1	3	STEEL	MATTE BLACK		MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO INSURE OPENINGS IN HARD CEILINGS AND WALLS ARE CORRECTLY SIZED TO ACCOMMODATE THE SPECIFIED BORDER TYPE. NO EXCEPTIONS	2/M0.2
S2	CEILING SUPPLY WITH INTEGRAL FIRE DAMPER	TITUS	TDC-FR	1	3	STEEL	WHITE		MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO INSURE OPENINGS IN HARD CEILINGS AND WALLS ARE CORRECTLY SIZED TO ACCOMMODATE THE SPECIFIED BORDER TYPE. NO EXCEPTIONS	14/M0.3
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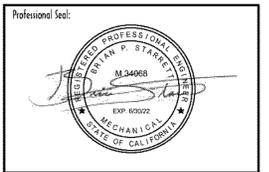


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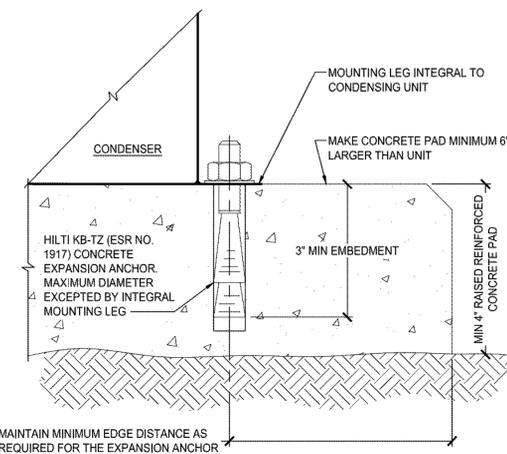


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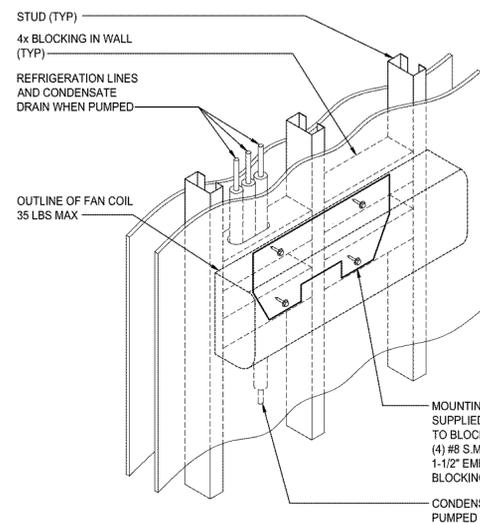
Project:  
**New Dispatch Center**  
**Tulare County Sheriff & Fire**  
**5300 West Tulare Avenue**  
**Visalia, California**

Sheet Description:  
**MECHANICAL SCHEDULES**

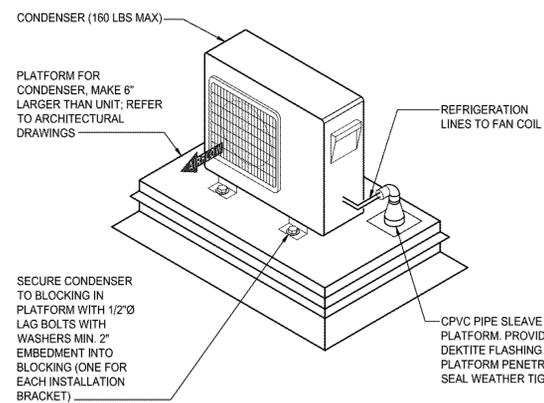
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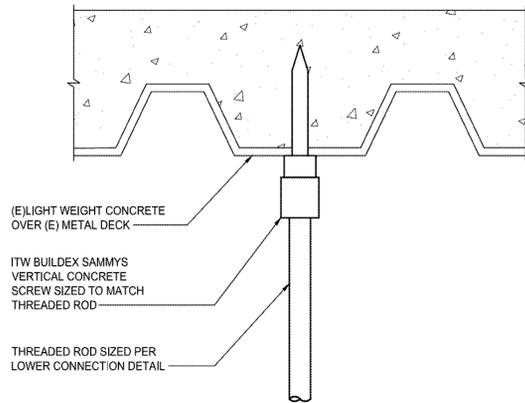
9 CONDENSING UNIT ANCHORAGE  
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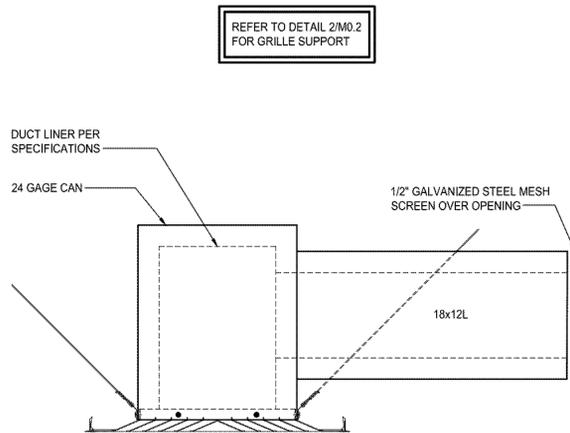
10 HIGH WALL FAN COIL MOUNTING  
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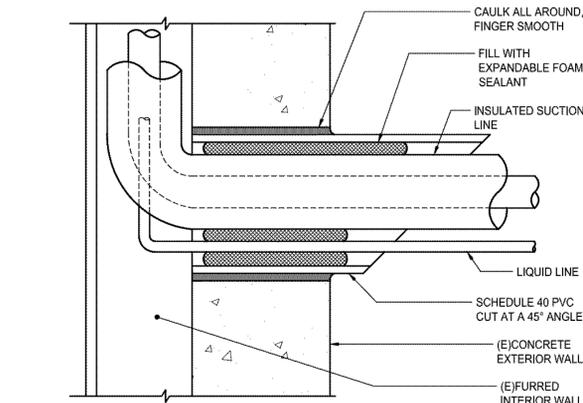
11 CONDENSER INSTALLATION  
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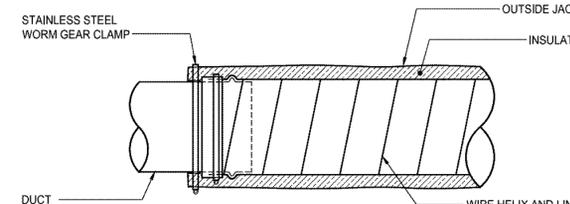
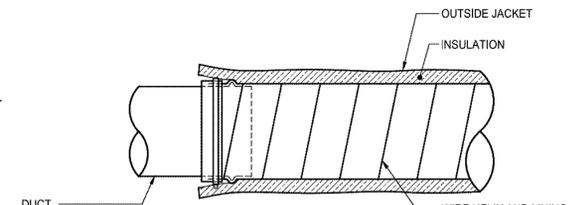
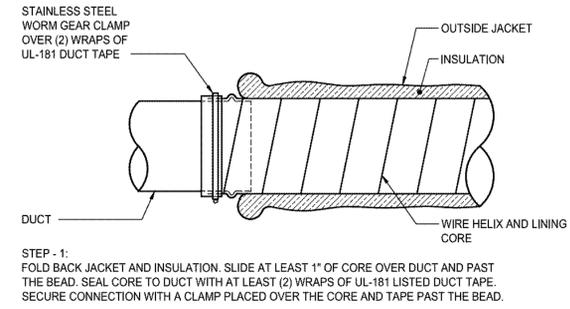
6 UPPER THREADED ROD CONNECTION  
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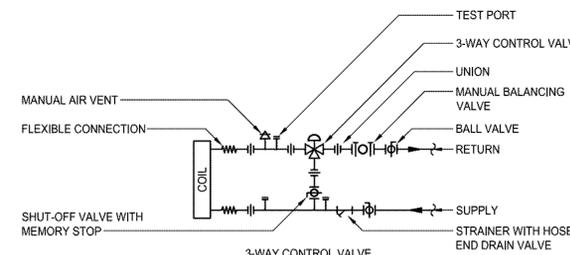
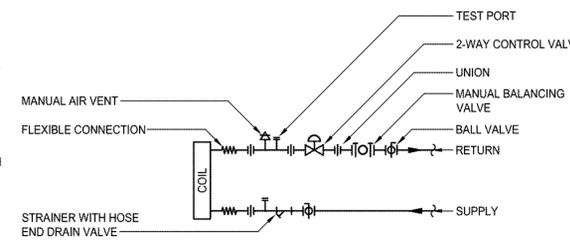
7 RETURN AIR GRILLE INTO PLENUM  
NTS



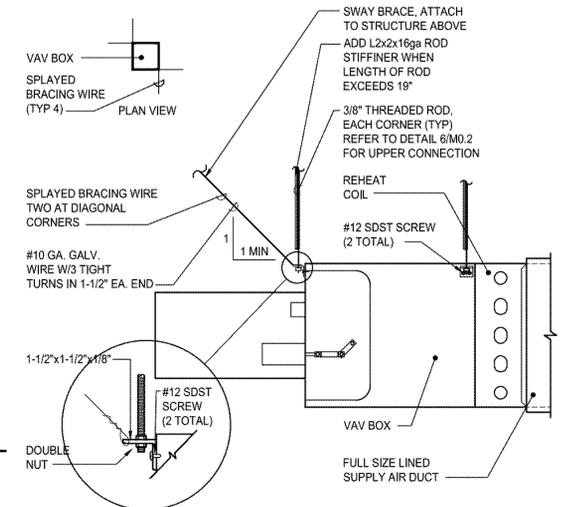
8 REFRIG. PIPE PENETRATION DETAIL  
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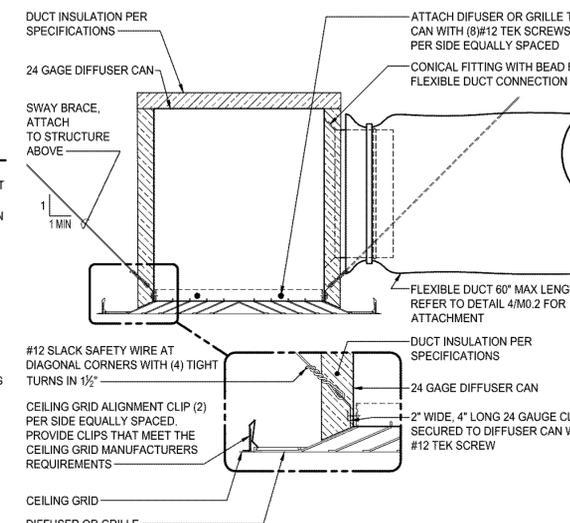
4 FLEXIBLE DUCT CONNECTION  
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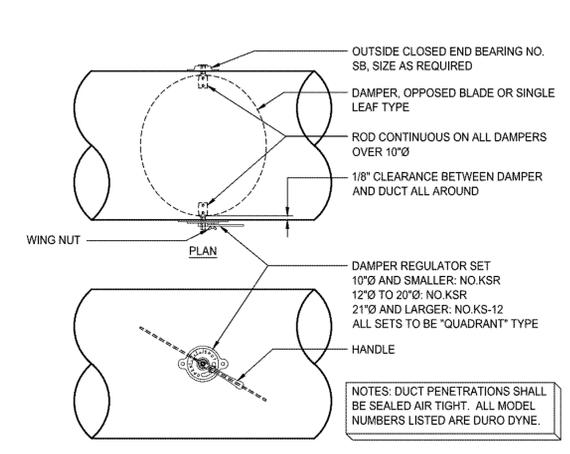
5 HYDRONIC COIL PIPING CONNECTION  
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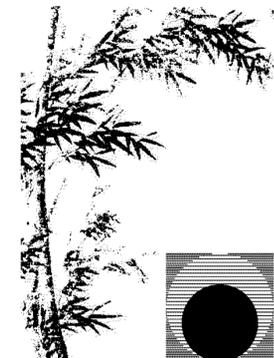
1 VAV BOX SUPPORT DETAIL  
NTS



2 DIFFUSER OR GRILLE INSTALLATION (LAY-IN CEILING)  
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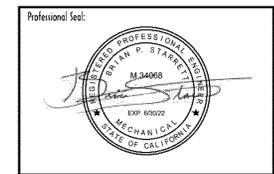


3 ROUND VOLUME DAMPER  
NTS



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**Contract Document**

Revision Summary:

Project:  
**New Dispatch Center  
Tulare County Sheriff & Fire**  
5300 West Tulare Avenue  
Visalia, California

Sheet Description:  
**MECHANICAL DETAILS**

Date: 08/08/20  
Project: 19-700  
Scale: AS NOTED  
Sheet No.: **M0.2**  
Of # sheets

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**System No. W-L-1410**

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Rating — 0 Hr

**SECTION A-A**

1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:  
 A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.  
 B. Gypsum Board\* — One or two layers of nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm).  
 The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly.

2. Through penetrants — One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space shall be 0 in. (point contact) to 1 in. (25 mm). Pipe or conduit to be rigidly supported on the penetrated side of the wall assembly. The following types and sizes of metallic pipes or conduits may be used:  
 A. Steel pipe — Nom 3 in. (76 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.  
 B. Conduit — Nom 3 in. (76 mm) diam (or smaller) steel electrical metallic tubing (EMT), nom 3 in. (76 mm) diam steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.  
 C. Copper Tubing — Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tubing.  
 D. Copper Pipe — Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe.

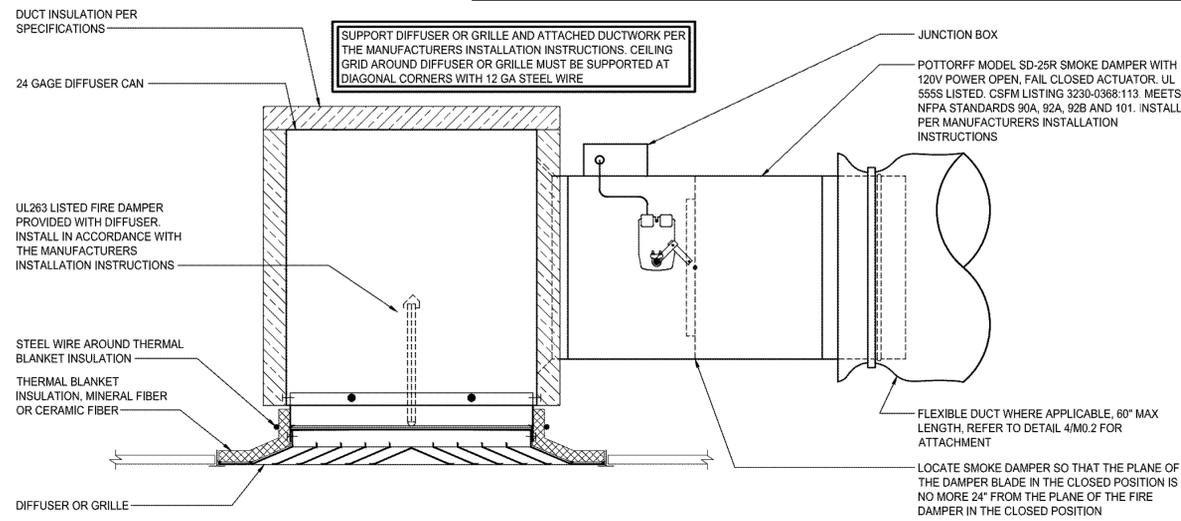
3. Fill, Void or Cavity Material\* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with surface of wall. Min 1/2 in. (13 mm) diam bead of sealant applied at point contact location.  
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, FS-ONE MAX Intumescent Sealant, CFS-S-SIL GG Sealant, CP601S Elastomeric Sealant, CP 606 Sealant, or CP618 Putty.

++ Bearing the UL Classification Mark

**HILTI**  
Hilti Firestop Systems

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**13 COPPER PIPE THRU MEMBRANE**  
NTS



**14 DIFFUSER OR GRILLE WITH FIRE DAMPER AND SMOKE DAMPER**  
NTS

**System No. W-L-5257**

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0 and 1 Hr (See Items 1 and 3)	FT Ratings — 0 and 1 Hr (See Items 1 and 3)
L Rating At Ambient — 4 CFM/sq ft (See Item)	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400 F — Less Than 1 CFM/sq ft (See Item)	FTH Ratings — 0 and 1 Hr (See Items 1 and 3)
	L Rating At Ambient — 4 CFM/sq ft (See Item)
	L Rating At 400 F — Less Than 1 CFM/sq ft (See Item)

1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:  
 A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.  
 B. Gypsum Board\* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide, with square or tapered edges. Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 8 in. (203 mm).  
 The hourly F and FH Ratings of the firestop system are 1 hr for 2 hr fire rated walls and 0 hr for 1 hr fire rated walls.

2. Through Penetrant — One metallic pipe or tube to be installed eccentrically or concentrically within the firestop system. Pipe or tube to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes and tubes may be used:  
 A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.  
 B. Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.  
 C. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.  
 D. Copper Tube — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.

3. Pipe Covering\* — Min 1 in. (25 mm) to max 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (3.5 pcf or 24 kg/m<sup>3</sup>) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the periphery of the opening shall be min 0 in. (point contact) to max 7/8 in. (22 mm). When pipe covering material thickness is less than 1-1/2 in. (38 mm), the T, FT and FTH Ratings are 0 Hr.  
 See Pipe Equipment Covering — Materials — (BRGU) Category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. Fill, Void or Cavity Material\* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At point contact location, min 1/2 in. (13 mm) diam bead of fill material applied at insulated metallic pipe/wall interfaces on both surfaces of wall. L Ratings apply only when FS-One Sealant is used.  
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, CP 606 Sealant or CP 601S Sealant  
 \*Bearing the UL Classification Mark

**HILTI**  
Hilti Firestop Systems

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**System No. W-L-5257**

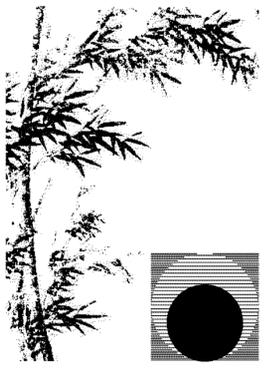
ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0 and 1 Hr (See Items 1 and 3)	FT Ratings — 0 and 1 Hr (See Items 1 and 3)
L Rating At Ambient — 4 CFM/sq ft (See Item)	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400 F — Less Than 1 CFM/sq ft (See Item)	FTH Ratings — 0 and 1 Hr (See Items 1 and 3)
	L Rating At Ambient — 4 CFM/sq ft (See Item)
	L Rating At 400 F — Less Than 1 CFM/sq ft (See Item)

**SECTION A-A**

**HILTI**  
Hilti Firestop Systems

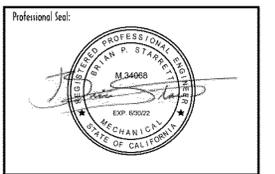
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**12 INSULATED COPPER PIPE THRU FIRE-RATED WALL**  
NTS



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Drawing Status:  
**Contract Document**

Revision Summary:


Project:  
**New Dispatch Center  
Tulare County Sheriff & Fire  
5300 West Tulare Avenue  
Visalia, California**

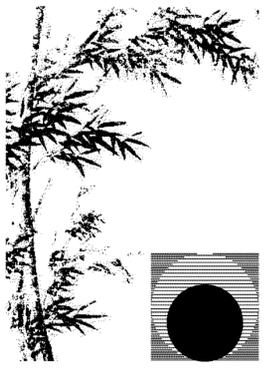
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**MECHANICAL DETAILS**

Date:	08/08/20
Project:	19-700
Scale:	AS NOTED
Sheet No.:	<b>M0.3</b>
Of # sheets:	

DEMOLITION KEY NOTES	
APPLICABLE TO THIS SHEET ONLY	
1	POINT OF DISCONNECT. CAP DUCT AIR TIGHT.
2	ABANDONED DUCT DROPS TO REMAIN.
3	VAV BOX, DDC CONTROLLER, THERMOSTAT AND ALL ASSOCIATED DUCTWORK TO BE REMOVED.
4	GRILLE OR DIFFUSER TO BE REMOVED.
5	POINT OF DISCONNECT. COVER END OF REMAINING DUCT WITH PLASTIC.
6	DISCONNECT HHWS&R FROM VAV BOX. REMOVE ALL COIL CONNECTION ACCESSORIES INCLUDING THE CONTROL VALVES. PREPARE PIPE FOR RECONNECTION.

**DEMOLITION PLAN STATEMENT**

THIS DEMOLITION PLAN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND TO PERFORM ALL DEMOLITION AND RECONSTRUCTION WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. DISPOSE OF ALL EQUIPMENT PER THE OWNER'S DIRECTION WHILE COMPLYING WITH ALL LOCAL CODES AND ORDINANCES.

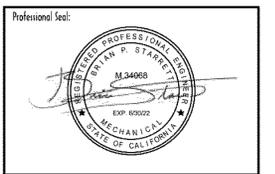


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**Contract Document**

Revision Summary:

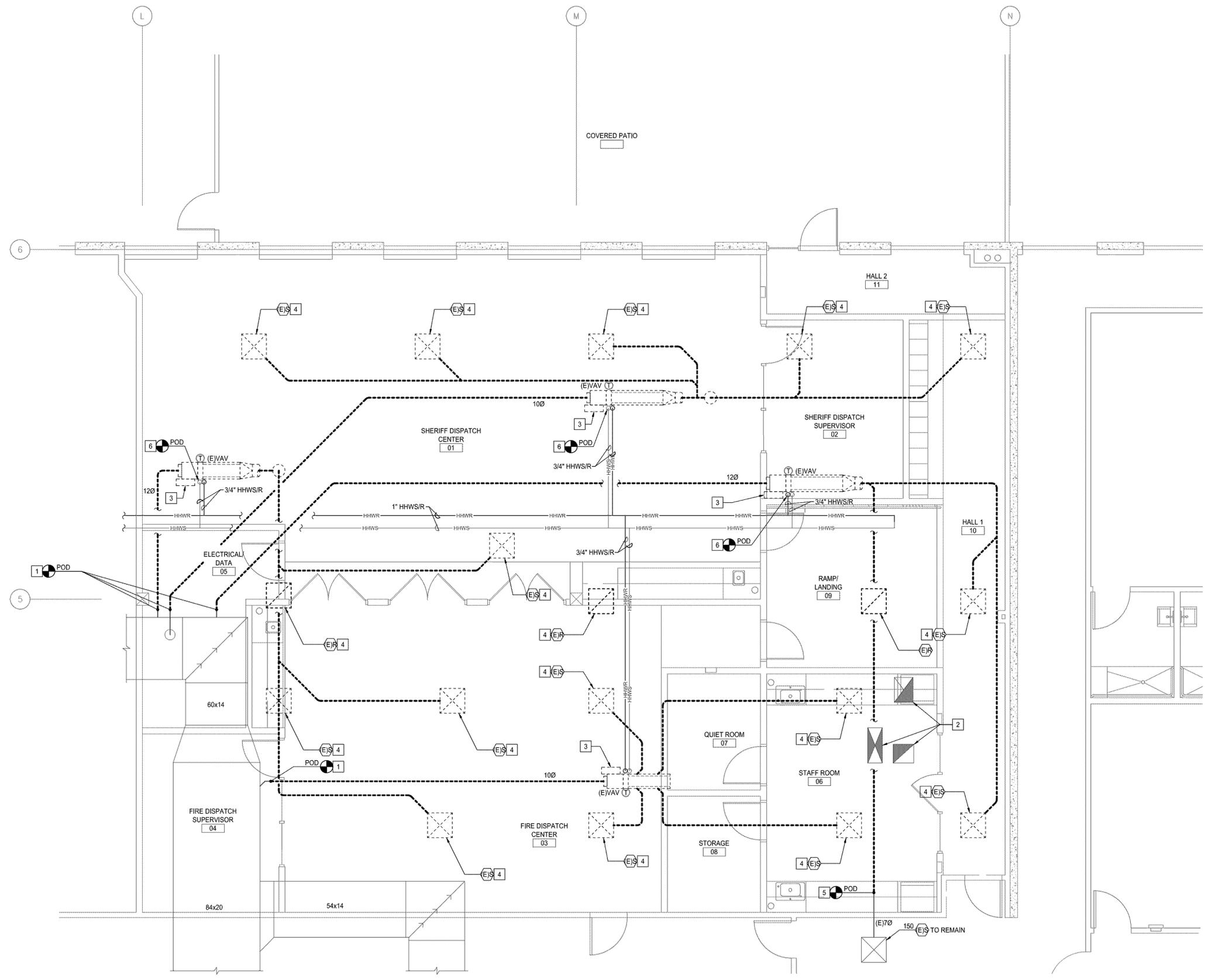

Project:

**New Dispatch Center  
Tulare County Sheriff & Fire  
5300 West Tulare Avenue  
Visalia, California**

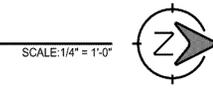
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**MECHANICAL DEMOLITION  
FLOOR PLAN**

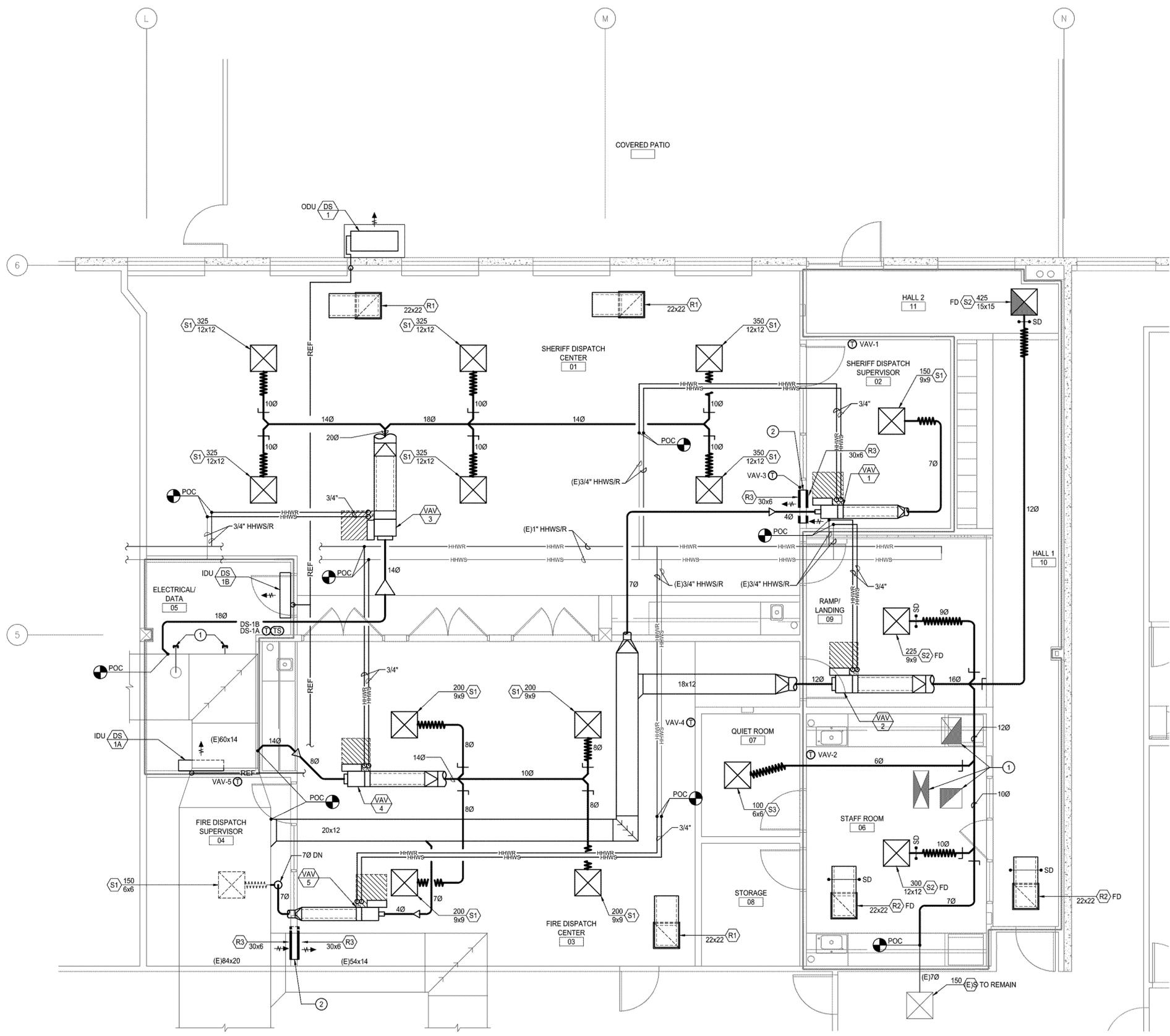
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Project:	19-700
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Sheet No.:	<b>M2.0</b>
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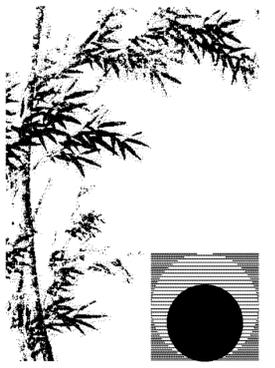
**1 MECHANICAL DEMOLITION FLOOR PLAN**



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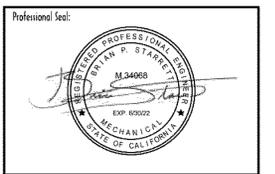


KEY NOTES	
APPLICABLE TO THIS SHEET ONLY	
1	CAP ABANDONED DUCTS AIR TIGHT. SEAL ANNULAR SPACE AROUND DUCTS AIR TIGHT.
2	POTTORFF 4-30 MODEL Z RETURN AIR SILENCER. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
3	LOCATION SHOWN IS APPROXIMATE. CONTRACTOR SHALL DETERMINE EXACT PLACEMENT. LOCATE UNIT SO THAT THE DISCHARGE AIR IS NOT DIRECTED AT CONDENSERS OR OUTSIDE AIR INTAKES.
HVAC GENERAL NOTES	
APPLICABLE TO THIS SHEET ONLY	
1	VERIFY FINAL THERMOSTAT LOCATIONS WITH OWNER PRIOR TO INSTALLATION. IF OWNER INTENDS TO CHANGE LOCATION OF THERMOSTAT, CONTACT ENGINEER OF RECORD PRIOR TO FINALIZING LOCATION.
2	PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH DUCTS TO AIR OUTLETS / INLETS. VOLUME DAMPERS ABOVE HARD LID CEILINGS TO BE CABLE OPERATED UNLESS NOTED OTHERWISE. CABLE TO BE ACCESSED THRU THE FACE OF GRILLE. AFTER BALANCING TUCK CABLE INTO DIFFUSER SO THAT IT IS NOT VISIBLE.
3	MATERIALS EXPOSED WITHIN ANY SPACE BEING USED AS AN AIR PLENUM SHALL BE NON COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50, WHEN TESTED AS A COMPOSITE PRODUCT IN ACCORDANCE WITH ONE OF THE FOLLOWING TEST METHODS: NFPA 255, METHOD OF TEST OF SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS, ASTM E84, SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS, OR UL 723, TEST FOR SURFACE BURNING CHARACTERISTIC OF BUILDING MATERIALS.
4	PENETRATIONS OF FIRE-RESISTIVE WALLS SHALL BE PROTECTED AS REQUIRED IN 2016 CBC SECTION 714. REFER TO DETAILS 12 & 13/M0.3.



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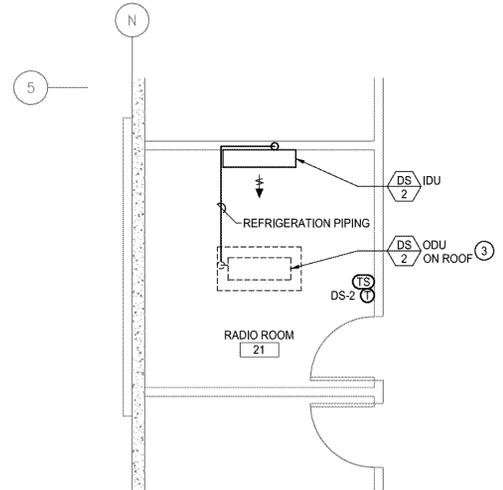


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Revision Summary:	

Project:  
**New Dispatch Center  
Tulare County Sheriff & Fire**  
5300 West Tulare Avenue  
Visalia, California

Sheet Description:  
**MECHANICAL  
FLOOR PLAN**

Date:	08/08/20
Project:	19-700
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Sheet No.:	<b>M3.0</b>
Of # sheets	



1 MECHANICAL FLOOR PLAN

SCALE: 1/4" = 1'-0"



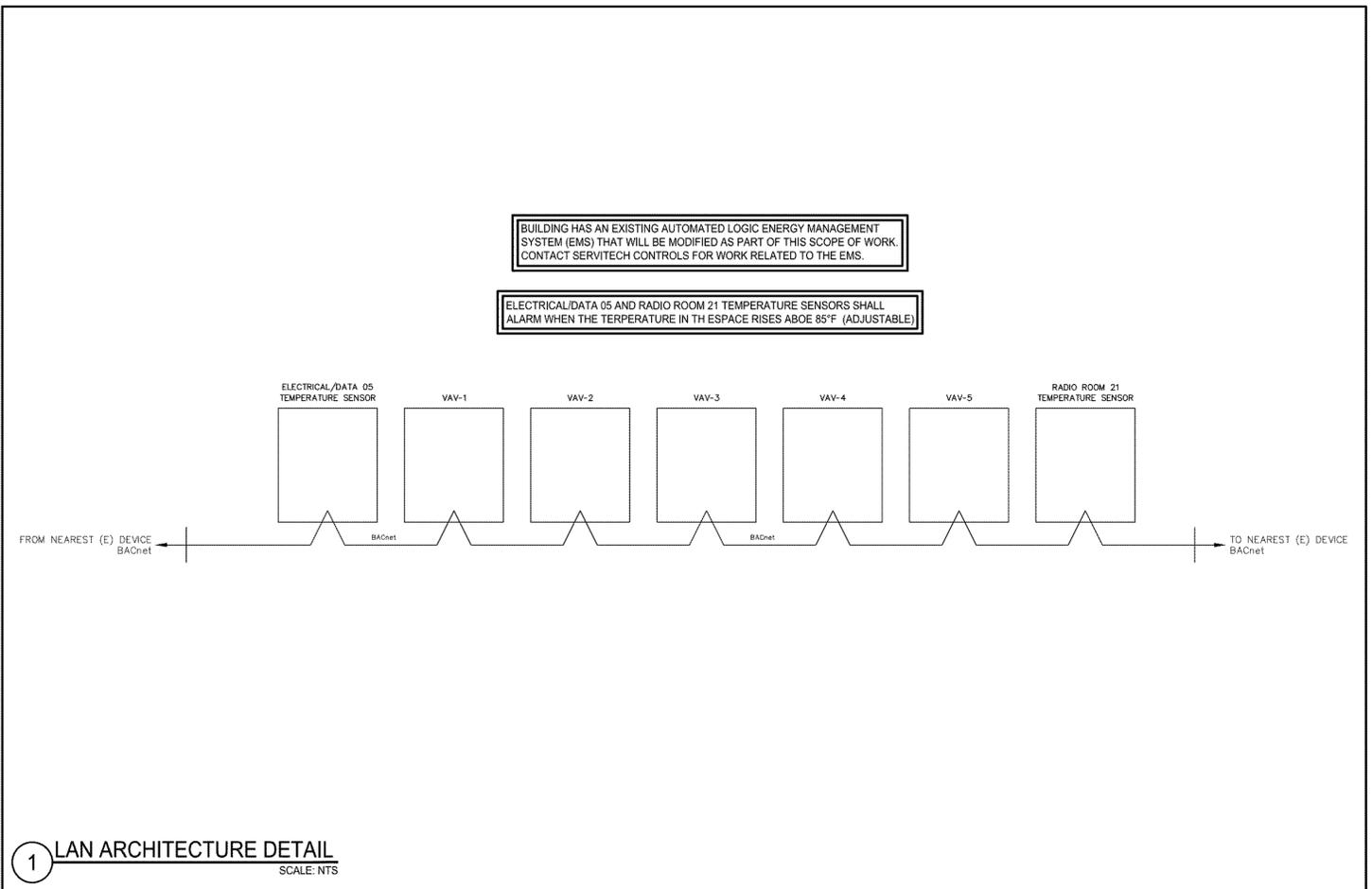
2 MECHANICAL FLOOR PLAN - RADIO ROOM

SCALE: 1/4" = 1'-0"

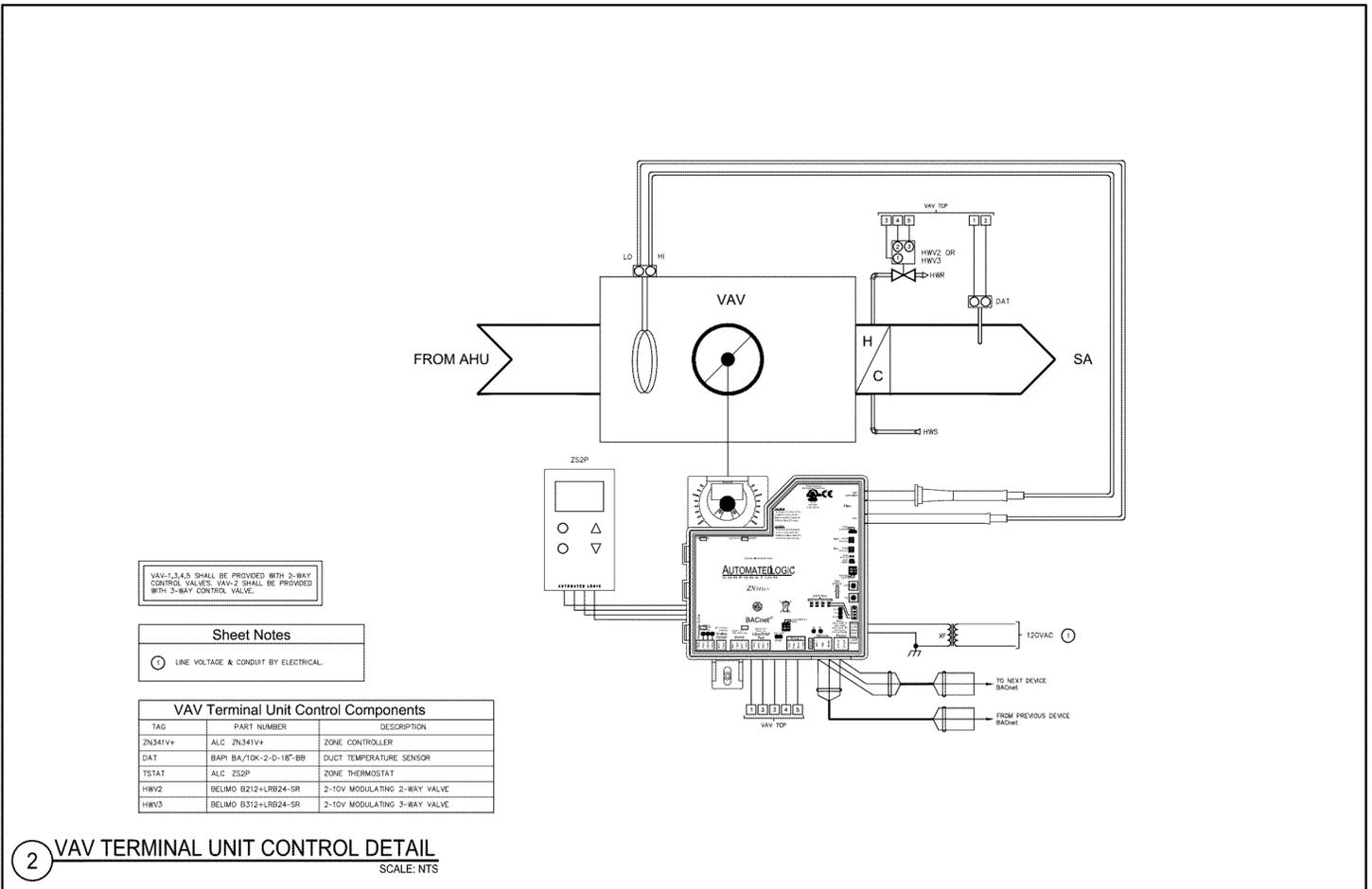


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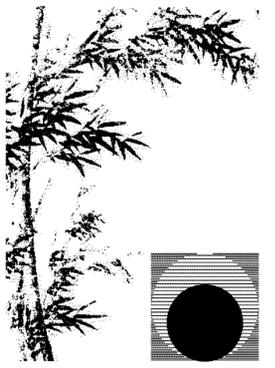
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1 LAN ARCHITECTURE DETAIL  
SCALE: NTS



2 VAV TERMINAL UNIT CONTROL DETAIL  
SCALE: NTS

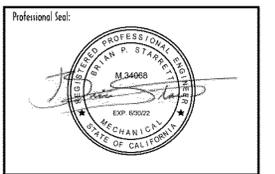


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Consultant:

**SC ENGINEERING**  
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**New Dispatch Center  
Tulare County Sheriff & Fire**

**5300 West Tulare Avenue  
Visalia, California**

Sheet Description:

**MECHANICAL CONTROLS**

Date: 08/08/20

Project: 19-700

Scale: AS NOTED

Sheet No: **MC1.0**

Of # sheets