

ABBREVIATIONS			
A	AMPS OR AMPERES	(N) N	NEW
AFF	ABOVE FINISHED FLOOR	NO/NC	NORMALLY OPEN/NORMALLY CLOSED
CKT	CIRCUIT	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
C	CONDUIT	NTS	NOT TO SCALE
C.O.	CONDUIT ONLY (EMPTY CONDUIT)	OC	ON CENTER
CU	COPPER	OL	OVERLOAD
(D) D	DEMOLISH	PH, Ø	PHASE
DF	DEMAND FACTOR	PNL	PANEL
(E) E	EXISTING	(RL) RL	RELOCATED
EM	EMERGENCY	(R)	REMOVE
FA	FIRE ALARM	(RN)	RENAME
FSD	FIRE SMOKE DAMPER	R	REUSED
FBO	FURNISHED BY OTHERS	SAD	SEE ARCHITECTURAL DRAWINGS
G GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SMD	SEE MECHANICAL DRAWINGS
		SPD	SEE PLUMBING DRAWINGS
HOA	HAND/OFF/AUTO	TTB	TELEPHONE TERMINAL BOARD
JB	JUNCTION BOX	TYP	TYPICAL
		TVSS	TRANSIENT SURGE SUPPRESSOR SYSTEM
LED	LIGHT EMITTING DIODE	T/S TS	TIME SWITCH
L	LOCKABLE	UON	UNLESS OTHERWISE NOTED
MCC	MOTOR CONTROL CENTER	V	VOLTS
MTD	MOUNTED	VIF	VERIFY IN FIELD
MLO	MAIN LUG/S ONLY	W	WIRE
		WP	WEATHERPROOF

LUMINAIRE SCHEDULE							
TYPE	DESCRIPTION	CATALOG NO.	LAMPS	VOLTS	WATTS	MOUNTINGS	REMARKS
L1	2X4 RECESSED MOUNTED DIRECT-INDIRECT FLUORESCENT LUMINAIRE WITH ELECTRONIC BALLAST SUITABLE FOR BI-LEVEL SWITCHING.	LITHONIA # 2AV-G_-28T5-MDR_-MVOLT GEB10PS	2- F028/75/835	120	60	RECESSED	
L2	2X2 RECESSED MOUNTED DIRECT-INDIRECT FLUORESCENT LUMINAIRE WITH ELECTRONIC BALLAST SUITABLE FOR BI-LEVEL SWITCHING.	LITHONIA # 2AV-G_-14T5-MDR_-MVOLT GEB10PS	2- F014/75/835	120	30	RECESSED	
L3	6" APERTURE COMPACT FLUORESCENT DOWNLIGHT WITH ELECTRONIC BALLAST.	LITHONIA # AF-128-DTT-8AR-LD-MVOLT GEB10IS	1- 28D TT	120	30	RECESSED	
L4	6" APERTURE COMPACT FLUORESCENT DOWNLIGHT WITH ELECTRONIC BALLAST. WITH LENS SUITABLE FOR SHOWER ROOM.	LITHONIA # AF-228-DTT-8AR-LD-CGL-MVOLT GEB10IS	2- 28D TT	120	54	RECESSED	
L5	NOT USED.						
L6	NOT USED.						
L7	2-T5 LAMP FLUORESCENT STRIP LUMINAIRE WITH SYMMETRIC REFLECTOR AND WIRE GUARD.	LITHONIA # Z5SMR-46-MVOLT-GEB10PS	2- F028/75/835	120	60	48" CHAIN-HUNG	
L8	NOT USED.						
L9	WALL MOUNTED COMPACT FLUORESCENT LUMINAIRE WITH ELECTRONIC BALLAST. FULL CUT-OFF AND DARK NIGHT TYPE.	LITHONIA # MRW-228-DTT-MD-MVOLT-GEB10_-LPI-	2- 28D TT	120	54	WALL	
LF	52" PADDLE FAN/LIGHT BRUSHED NICKEL FINISH WITH 1-18W CFL LAMP. THREE SPEED WITH REMOTE CONTROL TO INDEPENDENTLY CONTROL FAN AND LIGHT.	HUNTER SONIC # 21585	1- 18W CFL	120	110	SURFACE CEILING	BLACK/MAPLE BLADES
LX	LED-TYPE EXIT SIGNAGE ARROWS, MOUNTING TYPE AND FACES AS SHOWN ON PLAN.	LITHONIA # EDG_-1/2-G-120/277-ELN	INCLUDED	120	5	CEILING/WALL	

NOTES 1. COLOR AND FINISHES BY ARCHITECT.
2. PROVIDE EMERGENCY BATTERY PACK OR BALLAST AS REQUIRED.

LEGEND	
SYMBOL	DESCRIPTION
<u>POWER</u>	
1 G	DUPLEX RECEPTACLE OUTLET, NEMA 5-20R, WALL MOUNTED +18" AFF UON. G (GFCI) =GROUND FAULT CIRCUIT INTERRUPTER TYPE 1=ASSOCIATED CIRCUIT. D=DEDICATED CIRCUIT
	DUPLEX RECEPTACLE - WALL MOUNTED ABOVE COUNTER
	DOUBLE DUPLEX (QUAD) RECEPTACLE, NEMA 5-20R, WALL MTD +18" AFF 1,3 ASSOCIATED CIRCUIT
	DUPLEX RECEPTACLE OUTLET - FLUSH MOUNTED ON CEILING
	DUPLEX RECEPTACLE OUTLET - FLUSH FLOOR MOUNTED
<u>LIGHTING</u>	
	2X4 FLUORESCENT LUMINAIRE - RECESSED MOUNTED
	2X2 FLUORESCENT LUMINAIRE - RECESSED MOUNTED
	FLUORESCENT DOWNLIGHT LUMINAIRE - RECESSED MOUNTED
	FLUORESCENT DOWNLIGHT LUMINAIRE - SURFACE MOUNTED
	FLUORESCENT STRIP - SURFACE OR CEILING MOUNTED
	PADDL FAN/LIGHT - SURFACE CEILING MOUNTED
	COMPACT FLUORESCENT LUMINAIRE - WALL MOUNTED
	POLE MOUNTED PARKING LOT LIGHTING LUMINAIRE - SINGLE OR TWIN HEAD.
<u>SWITCHES</u>	
	SINGLE POLE SWITCH, LOWER CASE LETTER INDICATES CIRCUIT OR LAMPS CONTROLLED BY SWITCH, +48" AFF U.O.N. "L" DENOTES LOCKABLE "PS" PROJECTION SCREEN "3" DENOTES THREE-WAY "D" DIMMER TYPE
	MOTOR RATED SWITCH WITH THERMAL OVERLOAD ELEMENT.
	OCCUPANCY SENSOR SWITCH - WALL MOUNTED: SUITABLE UP TO 300SF BI-LEVEL OR SINGLE LEVEL TYPE
	OCCUPANCY SENSOR SWITCH - CEILING MOUNTED: SUITABLE UP TO 1000SF
<u>MISCELLANEOUS</u>	
	LIGHTING FIXTURE TAG, "L1" = FIXTURE TYPE
	SHEET NOTES TAG
	EQUIPMENT IDENTIFICATION EQUIPMENT NUMBER
<u>CONVENTIONS</u>	
1, 3, 5	INDIVIDUAL CIRCUITS TO INDIVIDUAL OR MULTI-POLE BREAKERS
	PANELBOARD NOMENCLATURE: PANEL SEQUENCE BUILDING VOLTAGE I.D. - = 120/208 VOLTS

DRAWING INDEX		
NO.	DWG. NO.	DESCRIPTION
1	E-0.0	ELECTRICAL LEGEND & DRAWING INDEX
2	E-0.1	ELECTRIC ONE-LINE DIAGRAM, DETAILS AND SCHEDULES
3	E-0.2	ELECTRIC SITE PLAN
4	E-1.1	POWER AND SIGNAL PLAN
5	E-1.2	LIGHTING PLAN
6	E-1.3	ELECTRICAL ROOF PLAN
7	E-2.1	SPECIFICATIONS

LEGEND	
SYMBOL	DESCRIPTION
<u>PANELBOARDS AND TERMINALS</u>	
	DISTRIBUTION BOARD OR MOTOR CONTROL CENTER
	BRANCH CIRCUIT PANEL, FLUSH OR SURFACE MOUNTED, (120/208V, 3Ø, 4W)
	TERMINAL CABINET (TYPE AS INDICATED), FLUSH OR SURFACE MTD.
	TERMINAL BOARD. 3/4" THICK MARINE PLYWOOD
<u>EQUIPMENT CONNECTION</u>	
	MOTOR
	JUNCTION BOX, WALL OR CEILING MOUNTED
	PULLBOX. MOUNTING AND SIZE AS INDICATED P = POWER; T = TELECOMM
	MAGNETIC STARTER
	SAFETY DISCONNECT SWITCH-30A SIZE. LETTER DENOTES OTHER SIZES: A = 30 AMPS 15 = 15 AMP FUSES - = NON-FUSIBLE TYPE B = 60 AMPS 30 = 30 AMP FUSES C = 100 AMPS 40 = 40 AMP FUSES
	COMBINATION STARTER - FVNR HOA, NUMBER INDICATES NEMA SIZE
	PACKAGE CONTROLLER OR STARTER FURNISHED AND INSTALLED UNDER ANOTHER SECTION BUT WIRED UNDER THIS SECTION.
	PHOTO-VOLTAIC INVERTER
	KILOWATT-HOUR METER WITH CURRENT AND POTENTIAL TRANSFORMERS.
	FIRE SMOKE DAMPER, SMD
<u>SIGNAL</u>	
	TELECOMM WALL OUTLET, +18" AFF U.O.N.; RING AND STRING ONLY
	TELECOMM WALL OUTLET, MOUNTED ABOVE COUNTER
	TELECOMM CEILING OUTLET, FACE DOWN
	TELECOMM FLOOR OUTLET
	FIRE ALARM REMOTE ANNUNCIATOR
	FIRE ALARM CONTROL PANEL
	SMOKE DETECTOR, CEILING MOUNTED. "R" DENOTES WITH RELEASING CONTACT
	SMOKE DETECTOR, DUCT MOUNTED. FURNISHED AND WIRED BY DIV 16, INSTALLED BY DIV 15
	HEAT DETECTOR, CEILING MOUNTED.
	FIRE ALARM STROBE UNIT +80" AFF
	FIRE ALARM HORN/STROBE UNIT +80" AFF
	FIRE ALARM MINI-HORN/STROBE UNIT +80" AFF
	FIRE ALARM PULL STATION +48" AFF
	FIRE ALARM TAMPER SWITCH
	FIRE ALARM WATER FLOW SWITCH
<u>RACEWAYS</u>	
	CONDUIT RUN EXPOSED IN CEILING OR WALL
	CONDUIT RUN CONCEALED IN CEILING OR WALL
	CONDUIT RUN CONCEALED IN SLAB, UNDERSLAB OR GROUND
	CONDUIT HOMERUN, CONTINUOUS RUN TO PANEL OR EQUIPMENT CABINET
	CONDUIT UP
	CONDUIT DOWN
	CONDUIT OR DUCT STUB
	GROUND WIRING, SIZE AS INDICATED
	CROSSMARKS (SHOWN IN HOMERUN ONLY) INDICATE THE FOLLOWING: 1. NUMBER ADJACENT TO CROSSMARKS INDICATES WIRE SIZES. NO NUMBER INDICATES SIZE #12 WIRE. 2. NO CROSSMARKS INDICATES 2#12 AWG CONDUCTORS. 3. SHORT CROSSMARK IS PHASE WIRE, LONG CROSSMARK IS NEUTRAL WIRE, AND LONG WITH DOT IS ISOLATED GREEN GROUND CONDUCTOR. NORMAL GROUND WIRE IS USUALLY NOT SHOWN. 4. 3/4" EMT CONDUIT MINIMUM. UPSIZE AS REQUIRED FOR CIRCUITS WITH OVERSIZED NEUTRAL.
	FLEXIBLE WIRING CONNECTION TO LUMINAIRE OR EQUIPMENT

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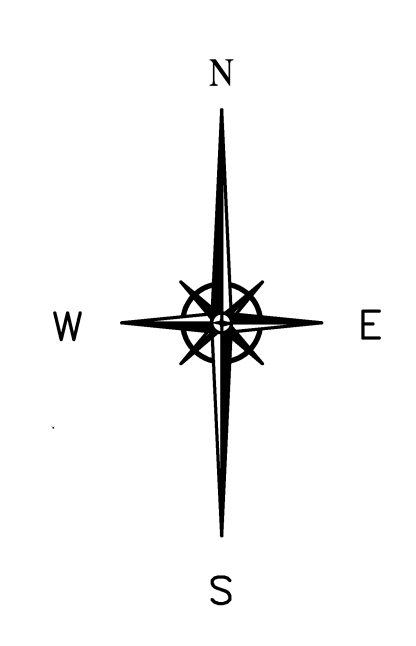
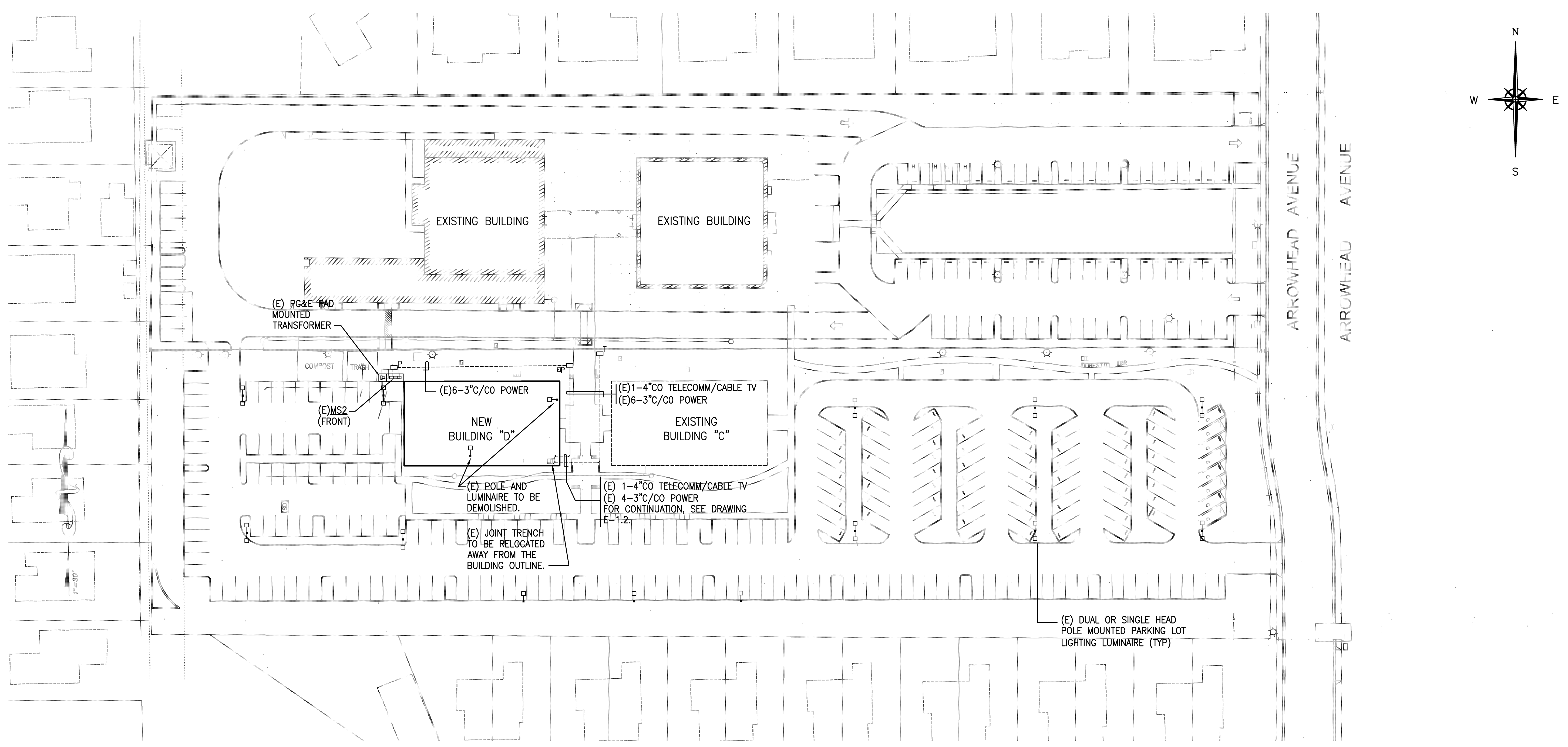
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Om Namah Shivaya Om Namah Narayana

ELECTRICAL LEGEND, DRAWING INDEX, SCHEDULES
BUILDING "D"
HINDU COMMUNITY and CULTURAL CENTER
1200 ARROWHEAD AVE. LIVERMORE, CA 94551

DATE	10/28/11
SCALE	NONE
DRAWN BY:	LA
PROJECT:	ARROWHEAD

E-0.0



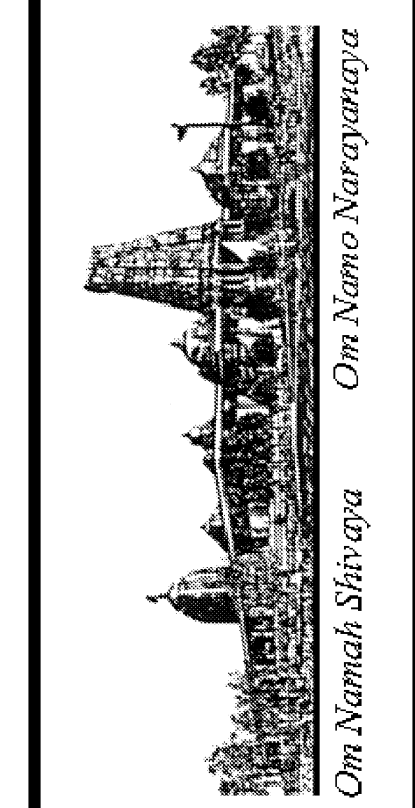
ELECTRICAL SITE PLAN

SCALE: 1"=40'-0"

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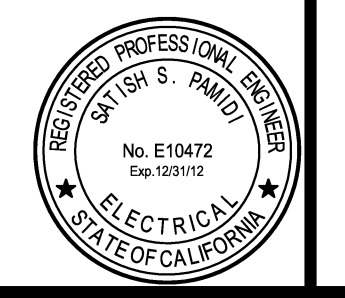
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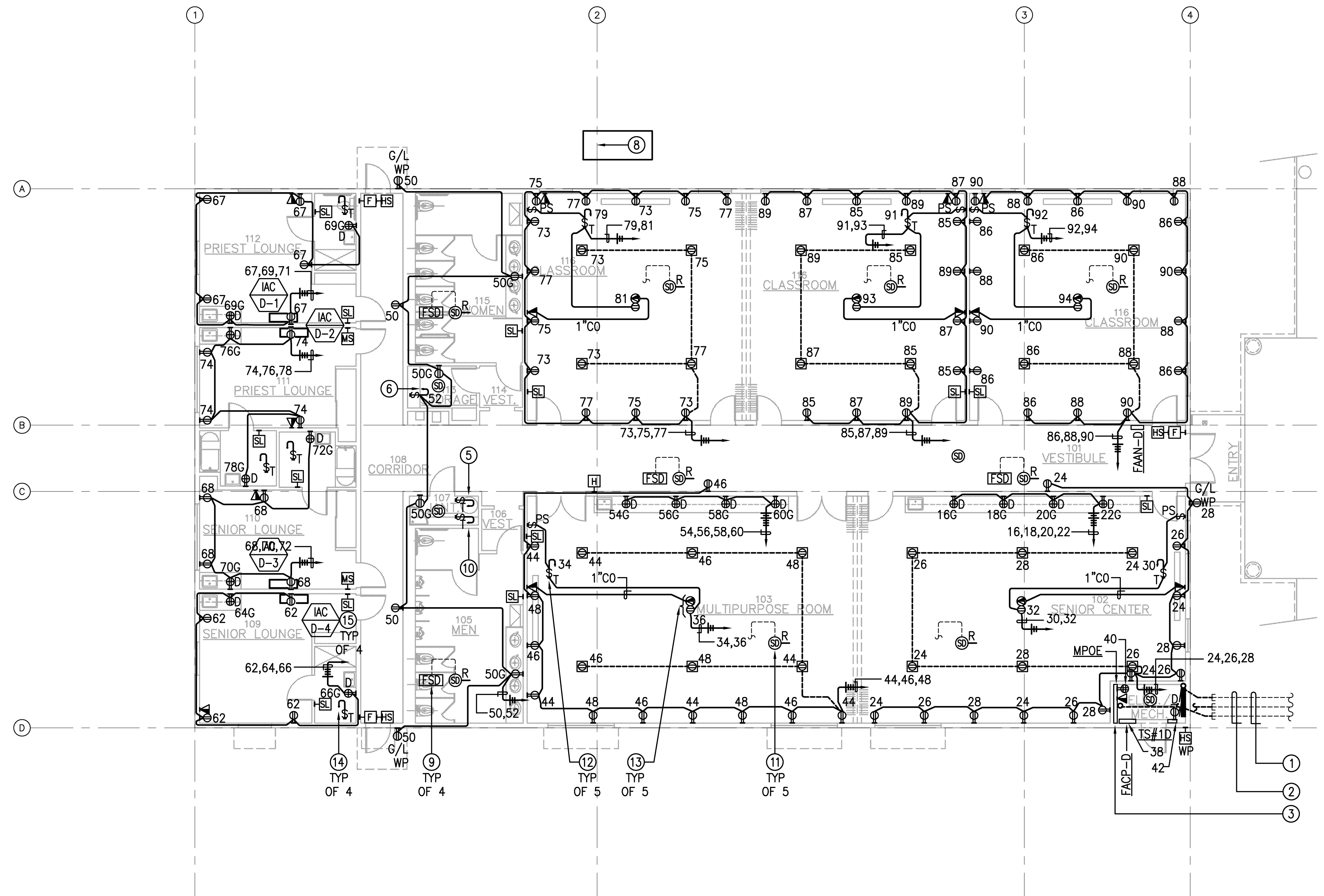
ELECTRICAL SITE PLAN
BUILDING "D"
HINDU COMMUNITY and CULTURAL CENTER
 1200 ARROWHEAD AVE. LIVERMORE, CA 94551

DATE	10/28/11
SCALE	NONE
DRAWN BY:	LA
PROJECT:	ARROWHEAD



SHEET NOTES

- ① (E) 4-2"CO (TELECOMM/CABLE TV) AND (E) 2-3"CO (POWER) PLUS (E) 2-3"CO SPARE CONDUITS. FOR CONTINUATION, SEE DRAWING E-0.2.
- ② EXTEND SYSTEM CONDUITS RESPECTIVELY AS SHOWN.
- ③ FOR MPOE, PROVIDE AS FOLLOWS:
 - PROVIDE 8"X PLYWOOD BACKBOARD (+6" AFF BOTTOM OF PLYWOOD ON WALL AS SHOWN) FIRE RETARDANT-TYPE PAINTED TO MATCH ROOM OR BIEGE. EDGES OF BOARD SHALL BE SMOOTH AND SPLINTER FREE.
 - PROVIDE 2-4"ØCO SLEEVE TO RUN FROM 6" BELOW CEILING TO 6" ABOVE CEILING. COORDINATE EXACT LOCATION WITH TENANT AND CABLING VENDOR
- ④ ALL CIRCUITS ARE SUPPLIED FROM PANEL "D". THE CIRCUITING OF LUMINAIRES, WIRING DEVICES AND CONTROL DEVICES, WITHIN EACH INTENDED CONTROL SCHEME, SHALL BE FULLY IMPLEMENTED USING THE PROPER TYPE AND NUMBER OF WIRES WITH CONNECTIONS AS REQUIRED. "ROUNDHOUSE" METHOD SHALL BE USED FOR ALL MULTI-CIRCUIT RUNS IN COMMON CONDUIT.
- ⑤ FOR HOT WATER HEATER CONTROLS. USE CIRCUIT D-80.
- ⑥ FOR DRINKING FOUNTAIN.
- ⑦ FOR FIRE DOOR OPERATOR. PROVIDE CONNECTION TO RELEASING CONTACT OF NEAREST SMOKE DETECTOR/S.
- ⑧ ALL HOMERUNS TO LEFT OF THIS GRID LINE SHALL BE #10 MIN.
- ⑨ LOOP FIRE/SMOKE DAMPERS INTO ONE 120V CONTROL CIRCUIT. USE D-84. PROVIDE FSD CONNECTION TO RELEASING CONTACT OF ASSOCIATED DUCT MOUNTED SMOKE DETECTOR.
- ⑩ FOR CP-1D, SPD. USE CIRCUIT D-82.
- ⑪ DUCT MOUNTED SMOKE DETECTOR WITH RELEASING CONTACT TO SHUT DOWN ASSOCIATED ROOFTOP UNIT ON ACTIVATION. PROVIDE CONNECTION TO SHUT-DOWN CIRCUIT OF ROOFTOP UNIT.
- ⑫ FOR MOTORIZED PROJECTION SCREEN WITH WALL MOUNTED PROJECTION SCREEN CONTROLLER.
- ⑬ FACE DOWN ON CEILING FOR LCD PROJECTOR.
- ⑭ FOR EXHAUST FAN, BEF-1, SMD. CONNECT TO CIRCUIT FOR LIGHTING IN ROOM.
- ⑮ FOR CIRCUITING AND CONTROLS, SEE DETAIL 3/E-1.3.



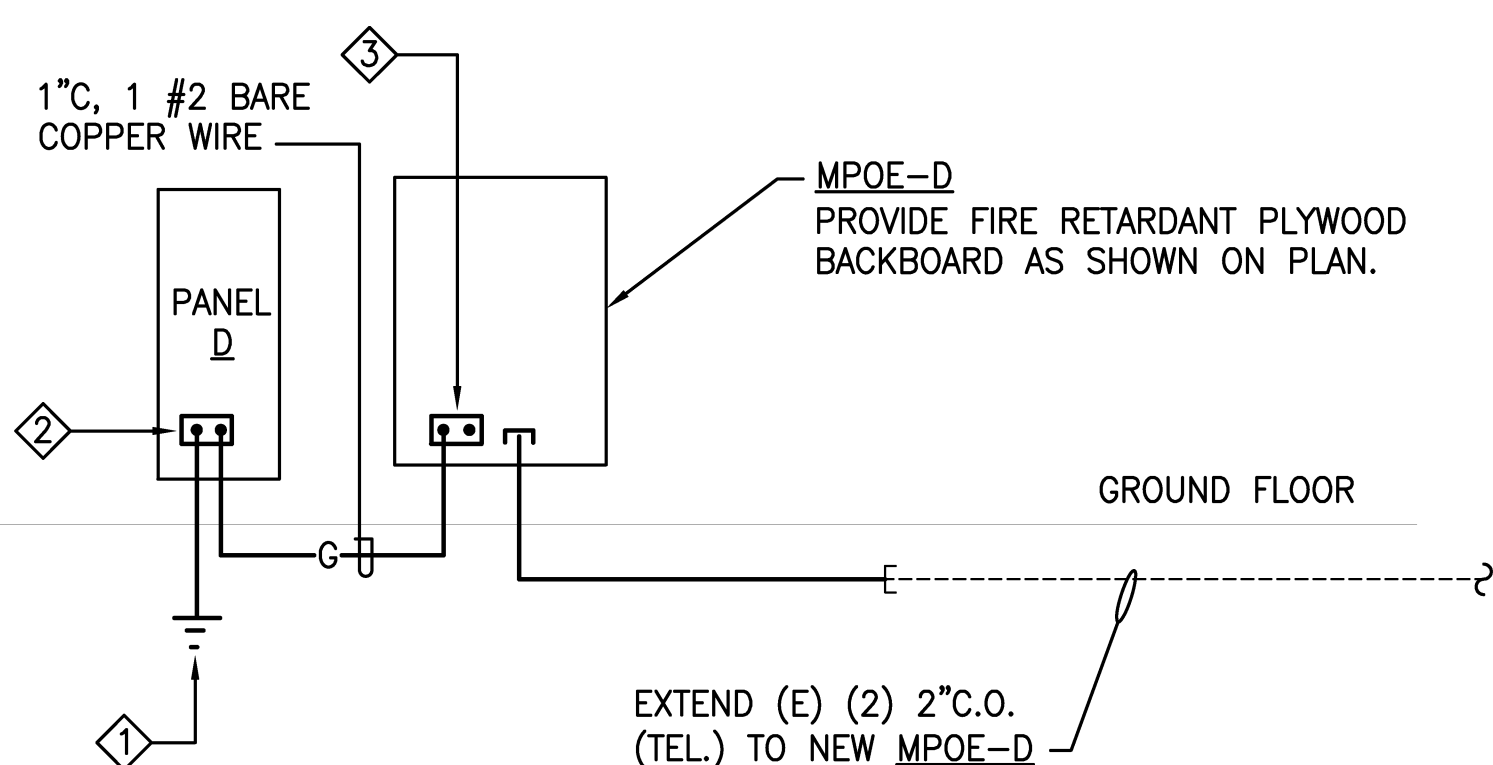
BUILDING D - PHASE 2
POWER AND SIGNAL PLAN

TOTAL 7800 SQ. FT.
SCALE: 1/8" = 1'-0"

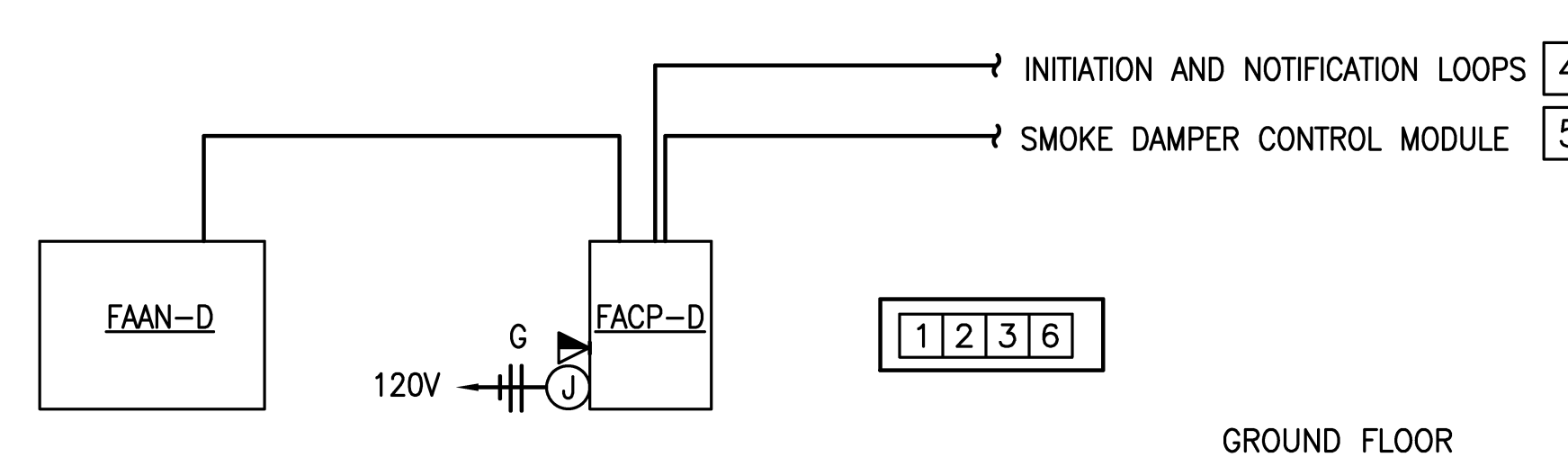


TELECOMM SHEET NOTES:

- ① SYSTEM GROUND. SEE DETAIL 1 SHEET E-0.1.
- ② GROUND BUS IN PANEL.
- ③ EQUIPMENT GROUND BUS. 1/4"x4"x12" COPPER GROUND BUS WITH 20-1/4" PRE-DRILLED HOLES, MOUNTED TO THE BOARD WITH 1" THICK RUBBER/PORCELAIN SPACERS.



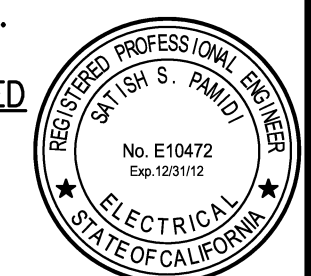
3 TELECOMMUNICATIONS/GROUNDING SYSTEM DIAGRAM
SCALE: NOT TO SCALE



2 FIRE ALARM SYSTEM DIAGRAM
SCALE: NOT TO SCALE

FIRE ALARM SYSTEM SHEET NOTES:

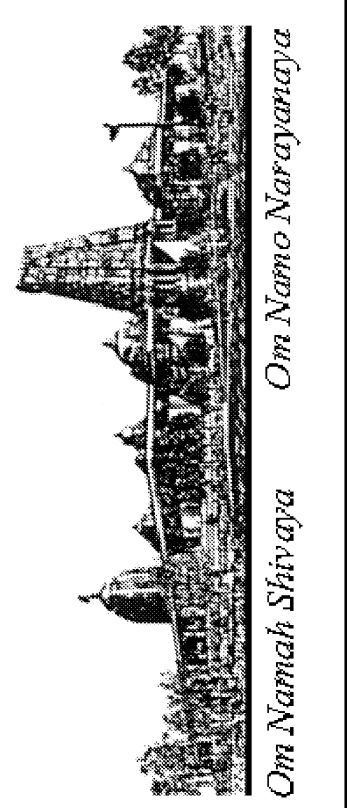
- ① ALL INSTALLATION SHALL BE IN CONDUIT. WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATION. MINIMUM CONDUIT SIZE SHALL BE 3/4".
- ② SUBMIT SHOP DRAWINGS TO LOCAL FIRE MARSHAL FOR APPROVAL PRIOR TO START OF ANY WORK.
- ③ NO WORK SHALL BE STARTED WITHOUT THE APPROVAL OF THE FIRE MARSHAL.
- ④ PROVIDE FIRE ALARM SYSTEM DEVICES AS SHOWN ON PLAN AND REQUIRED BY AUTHORITY HAVING JURISDICTION.
- ⑤ FOR LOCATION AND QUANTITY OF DEVICES, SMD.
- ⑥ FIRE ALARM SYSTEM SHALL BE UNDER DEFERRED PERMITTING.



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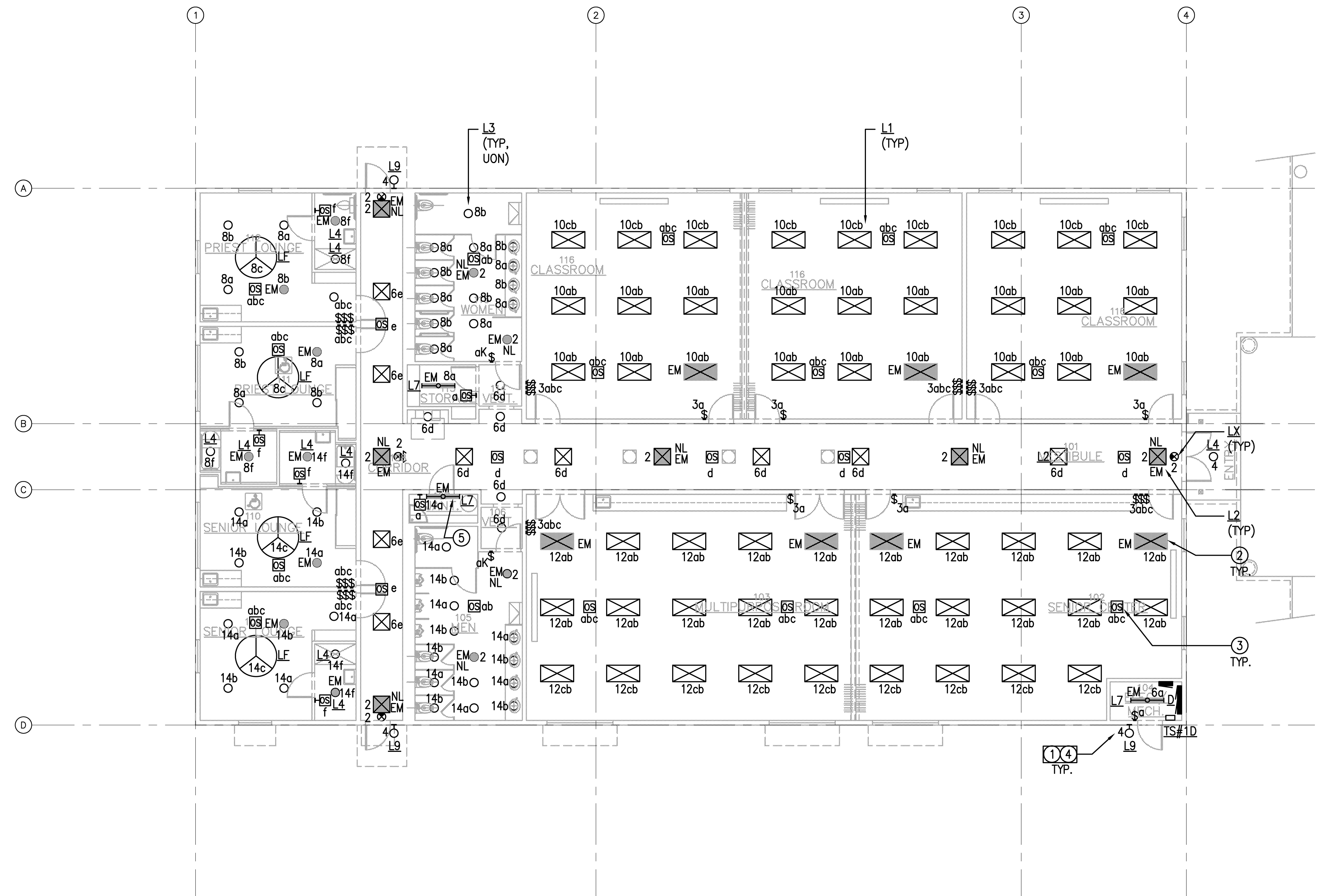


POWER & SIGNAL PLAN
BUILDING "D"
HINDU COMMUNITY and CULTURAL CENTER
1200 ARROWHEAD AVE. LIVERMORE, CA 94551

DATE	10/28/11
SCALE	AS SHOWN
DRAWN BY	LA
PROJECT	ARROWHEAD

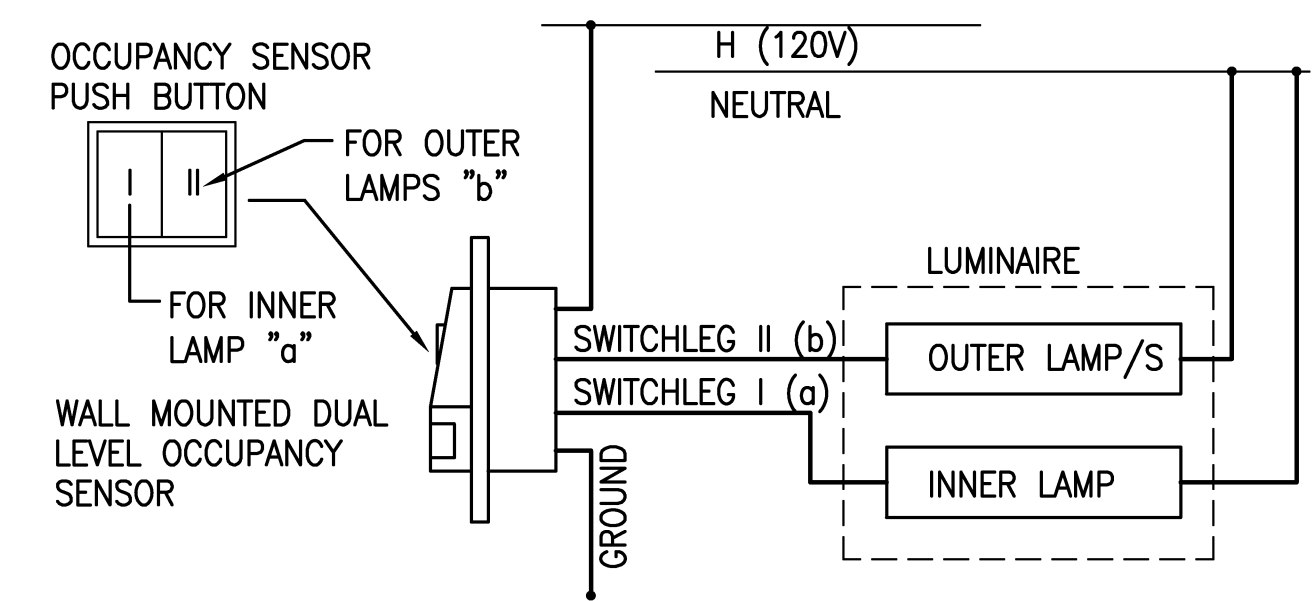
SHEET NOTES

- 1 FOR CONTROLS OF BUILDING MOUNTED EXTERIOR LIGHTING, SEE DETAIL 3 DRAWING E-0.1.
- 2 FOR EGRESS LUMINAIRE WITH BATTERY PACK SHOWN SWITCHED, CONNECT SWITCHLEG AHEAD OF BATTERY CHARGER.
- 3 PROVIDE WALL OR CEILING MOUNTED BI-LEVEL OCCUPANCY SENSOR AS SHOWN. CEILING MOUNTED OCCUPANCY SENSORS SHALL HAVE WALL MOUNTED BI-LEVEL OVERRIDE SWITCHES. SEE DETAIL 2 AND 3 THIS SHEET.
- 4 ALL CIRCUITS ARE SUPPLIED FROM PANEL "D". THE CIRCUITING OF LUMINAIRES, WIRING DEVICES AND CONTROL DEVICES, WITHIN EACH INTENDED CONTROL SCHEME, SHALL BE FULLY IMPLEMENTED USING THE PROPER TYPE AND NUMBER OF WIRES WITH CONNECTIONS AS REQUIRED. "ROUNDHOUSE" METHOD SHALL BE USED FOR ALL MULTI-CIRCUIT RUNS IN COMMON CONDUIT.
- 5 WALL OR CEILING MOUNTED



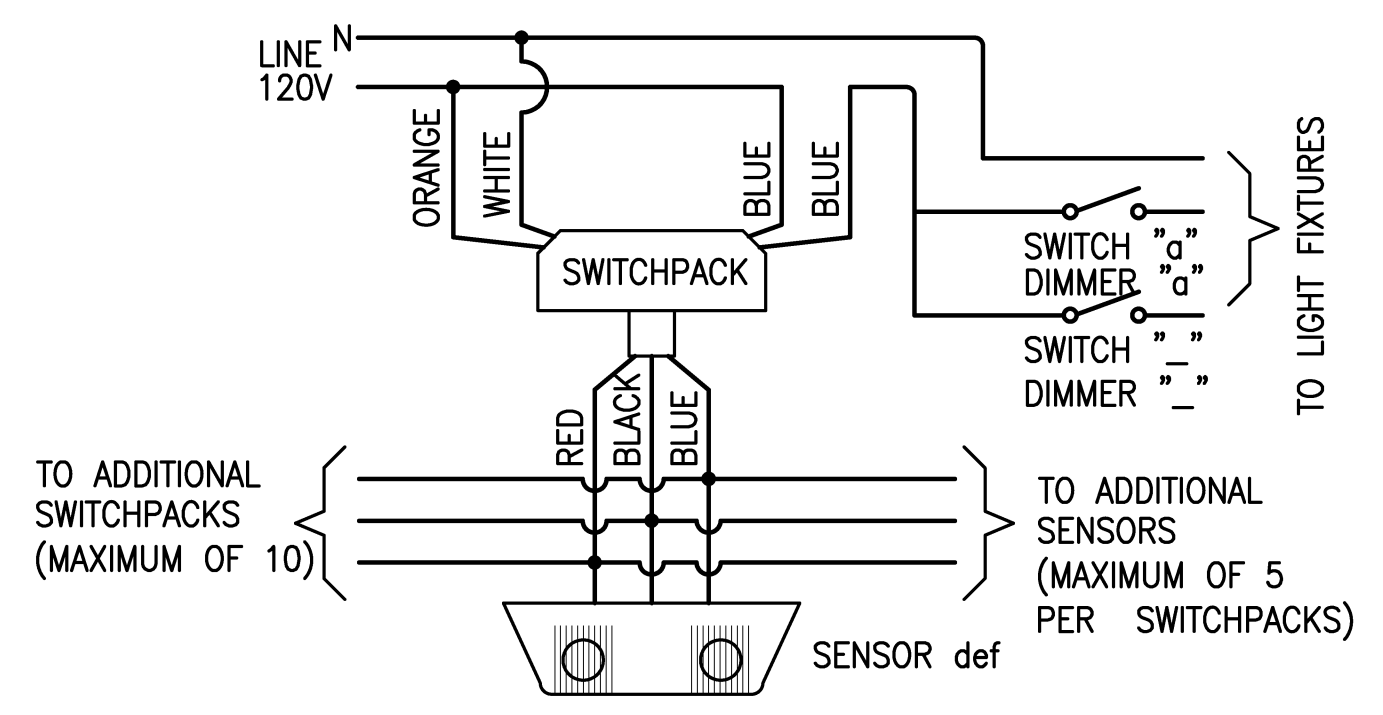
BUILDING D - PHASE 2 LIGHTING PLAN

TOTAL 7800 SQ. FT.
SCALE: 1/8"=1'-0"
GRAPHIC SCALES: 0 5' 10' 20' 25'
1/8" = 1'-0"



2 WALL MOUNTED OCCUPANCY SENSOR WIRING DIAGRAM

SCALE: NOT TO SCALE



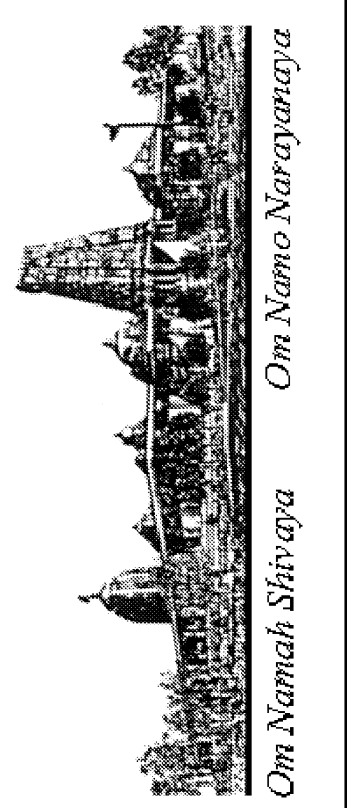
3 CEILING MOUNTED OCCUPANCY SENSOR WIRING DIAGRAM

SCALE: NOT TO SCALE

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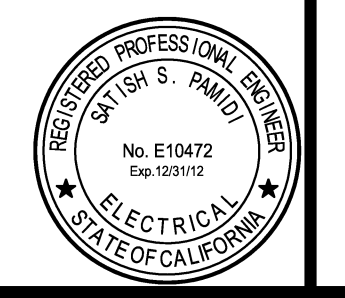


LIGHTING PLAN BUILDING "D" HINDU COMMUNITY and CULTURAL CENTER

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PROJECT:	ARROWHEAD

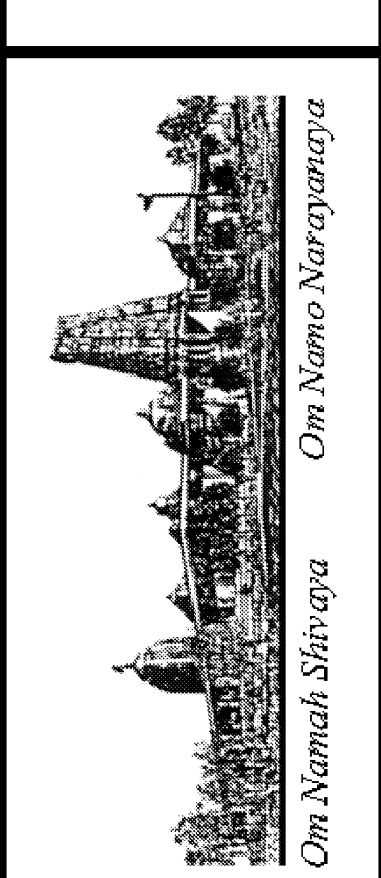
E-1.2



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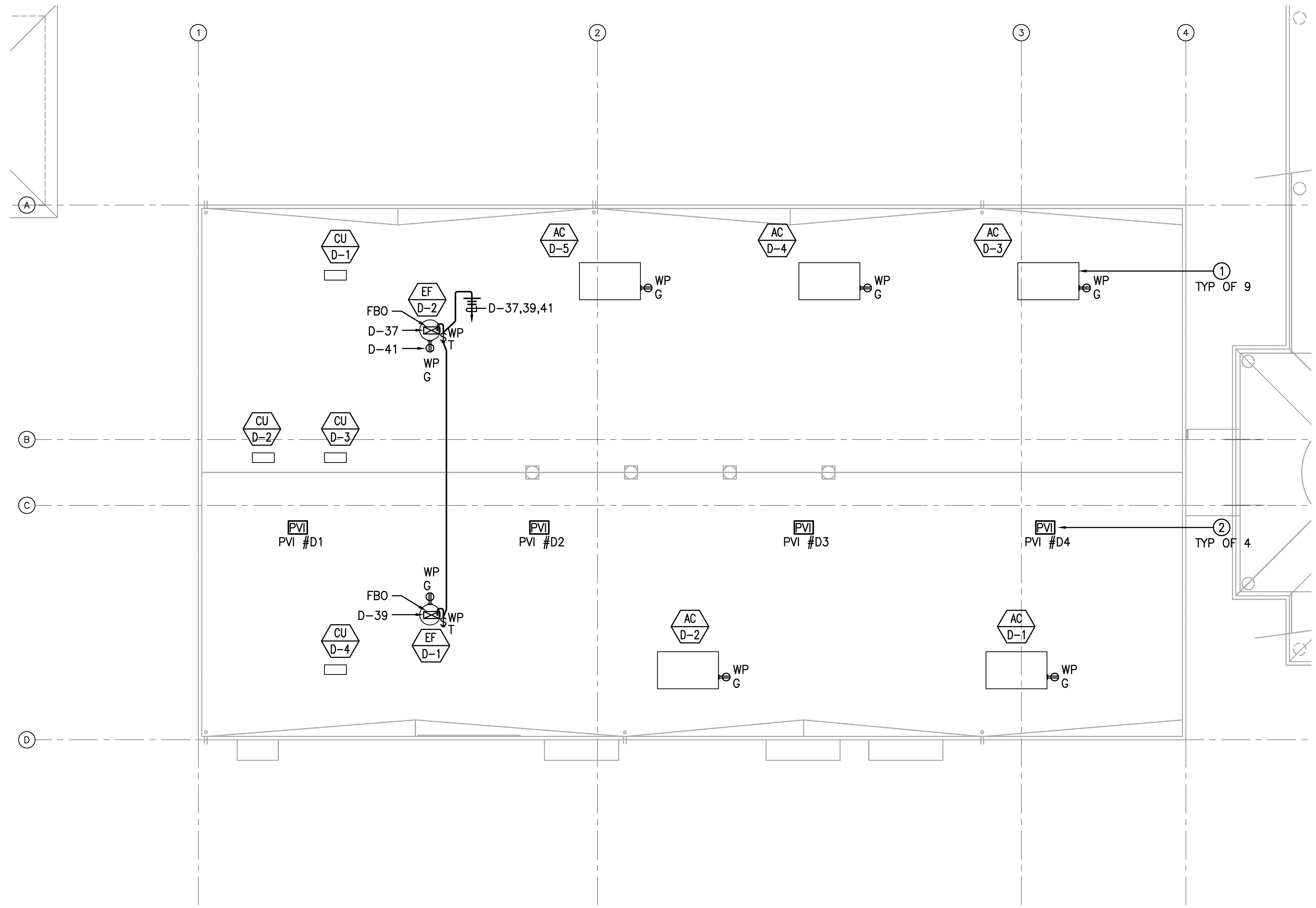
ELECTRICAL ROOF PLAN
BUILDING "D"
HINDU COMMUNITY and CULTURAL CENTER
 1200 ARROWHEAD AVE. LIVERMORE, CA 94551

DATE: 10/28/11
 SCALE: AS SHOWN
 DRAWN BY: LA
 PROJECT: ARROWHEAD

E-1.3

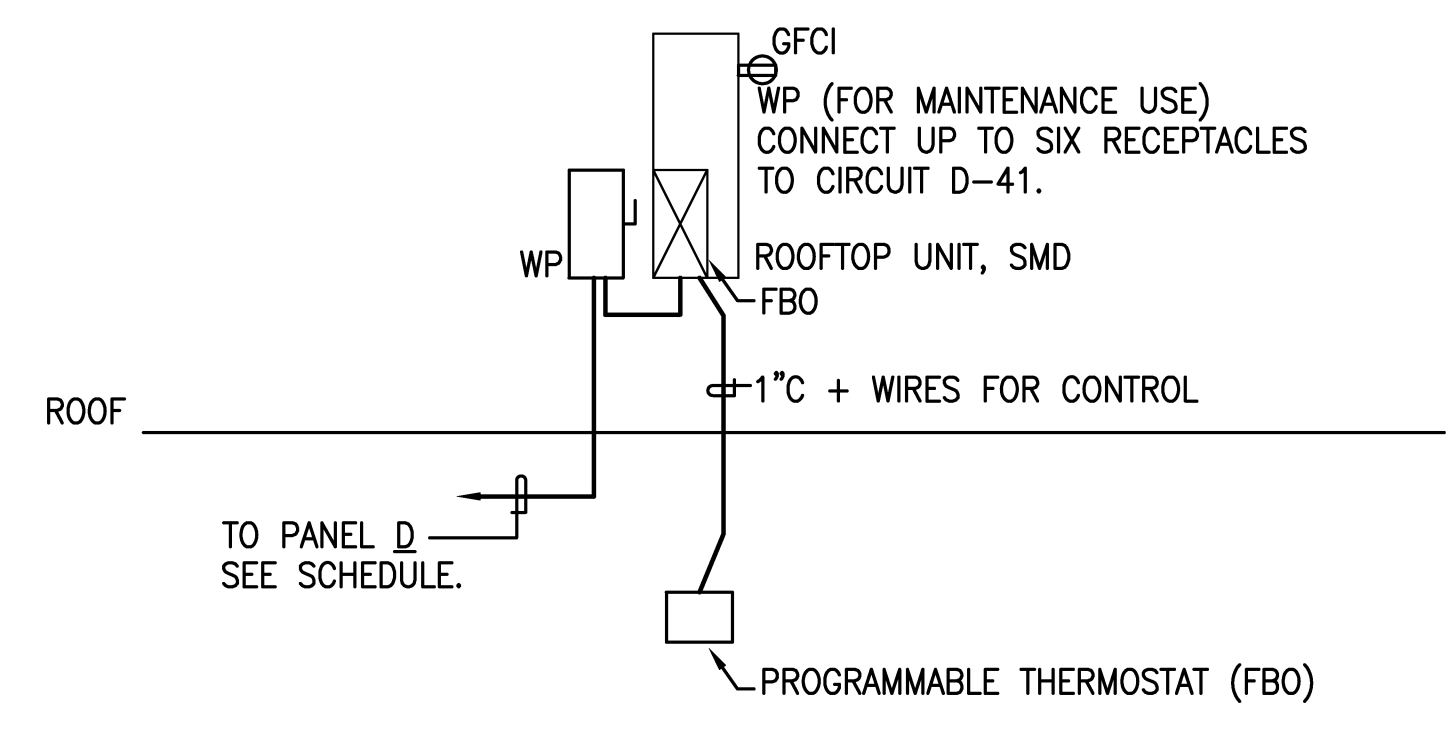
SHEET NOTES

- FOR WIRING AND DISCONNECT SWITCH REQUIREMENTS FOR HVAC ROOF TOP UNITS AND SPLIT SYSTEMS, SEE DETAIL 2 AND 3 THIS SHEET AND SCHEDULE PANEL "D".
- PHOTO-VOLTAIC SYSTEM IS DESIGN-BUILD UNDER SEPARATE PERMIT. LOCATION OF SYSTEM INVERTERS SHALL BE VERIFIED WITH PROVIDER.

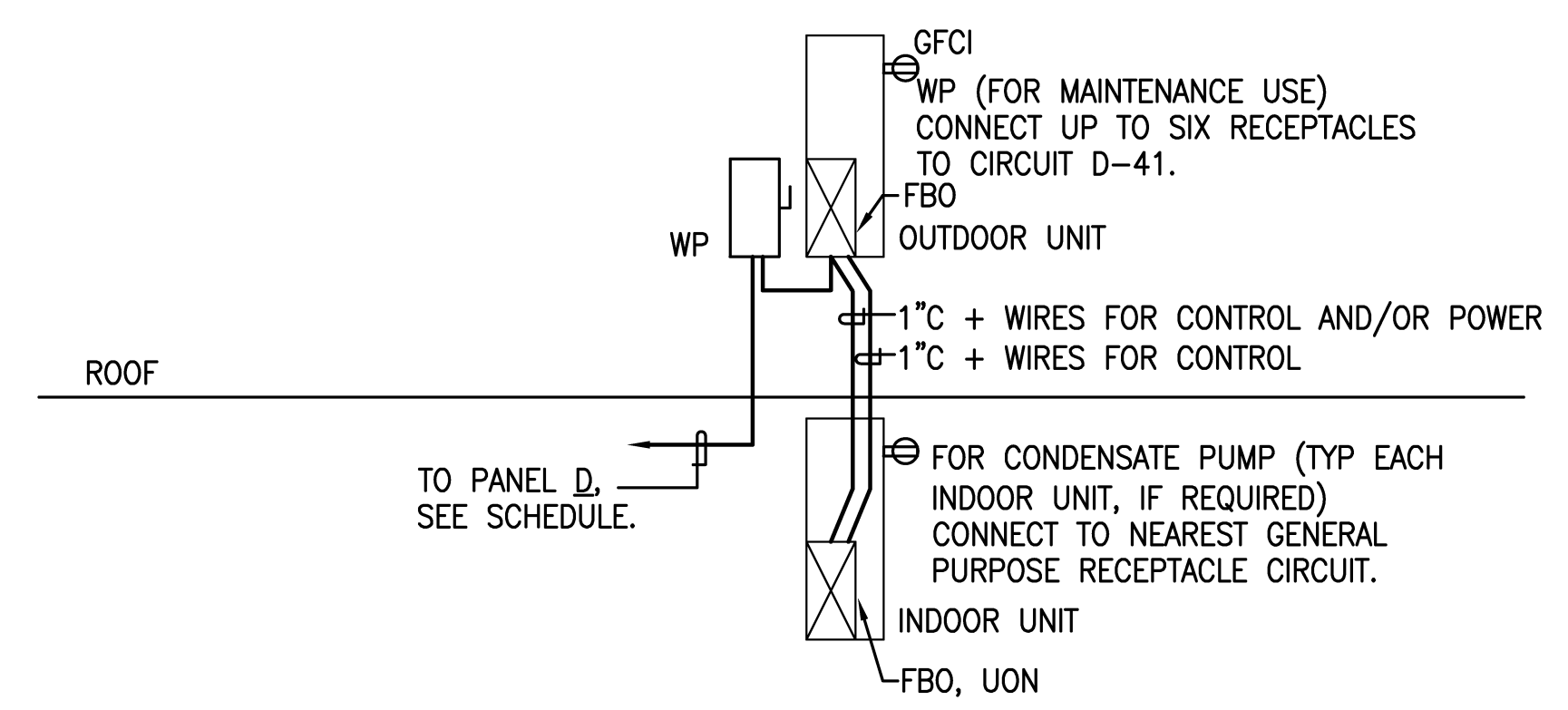


BUILDING D - PHASE 2
ELECTRICAL ROOF PLAN

TOTAL 7800 SQ. FT.
 SCALE: 1/8" = 1'-0"
 GRAPHIC SCALES: 0 5' 10' 20' 25'
 1/8" = 1'-0"



2 ROOFTOP HVAC UNIT WIRING DIAGRAM - TYPICAL
 SCALE: NOT TO SCALE



3 SPLIT SYSTEM HVAC UNIT WIRING DIAGRAM - TYPICAL
 SCALE: NOT TO SCALE



SPECIFICATIONS

- A. GENERAL**
- PRIOR TO SUBMISSION OF BID, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS.
 - ALL ELECTRICAL SERVICE WORK SHALL COMPLY WITH PG&E REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL COMPONENTS, MEANS AND METHODS OF INSTALLATION AS REQUIRED BY PG&E GREENBOOK AND PUC REQUIREMENTS.
 - BRING TO THE ATTENTION OF THE ARCHITECT ANY CONFLICTING INFORMATION, OR MISSING INFORMATION FROM THE DOCUMENTS PRIOR TO START OF CONSTRUCTION.
 - PROVIDE REQUIRED COOPERATION AND COORDINATION WITH OTHER TRADES TO MAXIMIZE CONSTRUCTION EFFICIENCY.
 - ORDINANCES AND REGULATIONS: ALL SYSTEMS SHALL BE INSTALLED WITHIN STRICT ACCORDANCE WITH ALL APPLICABLE CITY, STATE AND NATIONAL CODES AND ORDINANCES.
 - TESTING AND ADJUSTING: UPON COMPLETION OF THE WORK, TEST AND REGULATE ALL SYSTEMS TO THE INTENT OF THEIR DESIGN AND TO THE OWNER'S SATISFACTION.
 - WARRANTEE: ALL MATERIALS, AND EQUIPMENT FURNISHED AND INSTALLED SHALL BE NEW, UNLESS OTHERWISE NOTED, AND FREE OF ALL DEFECTS AND SHALL BE WARRANTED FOR ONE YEAR FROM DATE OF ACCEPTANCE.
 - LICENSES, PERMITS AND FEES: PROVIDE, PROCURE AND PAY FOR ALL PERMITS SERVICES, LICENSES, FEES, ETC., REQUIRED FOR PERFORMANCE OF THIS WORK UPON COMPLETION OF THE WORK, DELIVER TO THE OWNER, ALL CERTIFICATES OF APPROVAL SIGNED BY THE CONTROLLING AUTHORITIES.
 - SUBMITTAL:
 - SIX CATALOG CUTS FOR ALL MATERIALS AND EQUIPMENT.
 - FIRE ALARM: SHOP DRAWINGS AS REQUIRED BY FIRE MARSHALL
 - COORDINATE EXACT HVAC LOCATION AND VERIFY ELECTRICAL LOADS WITH THE MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
 - INSTALL ALL DEVICES AND EQUIPMENT PER MANUFACTURERS' RECOMMENDATIONS.
 - PROVIDE SUPPORTS, VIBRATION ISOLATION, AND SEISMIC BRACING.
 - FIRE ALARM: DEVICES SHOWN ON PLANS TO SHOW MINIMUM REQUIREMENTS FOR THIS BUILDING. IT IS THE RESPONSIBILITY OF THE DESIGN-BUILD CONTRACTOR TO PROVIDE REQUIRED AND COMPLETE DOCUMENTS FOR DEFERRED PERMIT SUBMITTAL.
 - THE TERM PROVIDE AS USED IN THESE DOCUMENTS IS DEFINED AS TO FURNISH AND INSTALL.

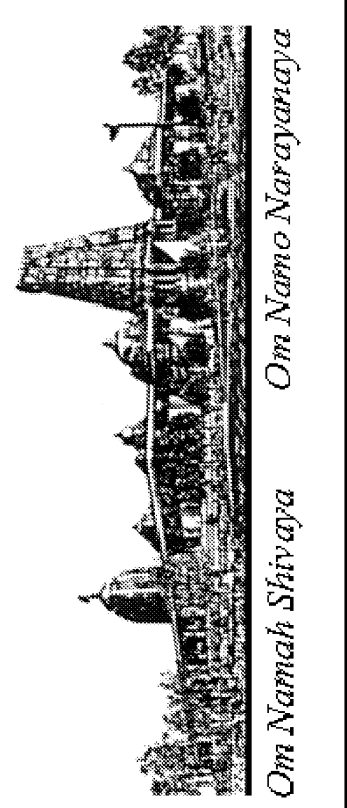
- B. MATERIAL AND METHODS**
- ALL EQUIPMENT SHALL BE LISTED BY AN ACCEPTED TESTING LABORATORY AND SHALL BE INSTALLED PER LISTING OR LABELING.
 - CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR SHALL LAY OUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES.
 - PROVIDE A CODE SIZE GROUND WIRE IN ALL CONDUITS UNLESS OTHERWISE NOTED.
 - ALL OUTLETS AND JUNCTION BOXES MOUNTED IN RATED WALL SHALL BE FIRE RATED.
 - MOUNTING HEIGHT SHOWN ARE FROM FINISHED FLOOR TO CENTERLINE OF THE OUTLET OR RACEWAY. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON THE SYMBOL LIST UNLESS OTHERWISE NOTED.
 - REFER TO ARCHITECTURAL DOCUMENTS FOR CEILING TYPES AND DETAILS. PROVIDE REQUIRED LIGHTING FIXTURE ENCLOSURE, TRIMS AND MOUNTING ACCESSORIES. REFER TO APPLICABLE BUILDING CODES. PROVIDE REQUIRED FIXTURE SUPPORTS. MAINTAIN CEILING FIRE RATINGS.
 - RUN ALL CONDUITS CONCEALED. IF CONDUITS ARE RUN EXPOSED, RUN PARALLEL WITH BUILDING LINES, GROUPED TOGETHER IN ORDERLY AND WORKMANLIKE MANNER, AND FANNED-OUT OF ELECTRICAL ROOM AND OR RESPECTIVE PANELBOARDS TO INDIVIDUAL DEVICES. THE ROUTING SHALL BE APPROVED BY ARCHITECT.
 - ALL WIRES SHALL BE COPPER #12 AWG MINIMUM.
 - ALL WIRING SHALL BE IN CONDUIT. 3/4" MINIMUM.
 - FLEXIBLE CONDUIT: STEEL
 - EMT CONNECTORS: SET SCREW (NO COMPRESSION)
 - PULL CORD IN ALL EMPTY CONDUIT.
 - EMT: STEEL
 - INSULATION BUSHING ON 1-1/4" AND LARGER CONDUITS.
 - EXTERIOR AND CONCRETE EMBEDS" PVC SCH. 40.
 - METALLIC CLAD CABLE MAYBE USED WHERE SUITABLE, EXCEPT FOR FIRE ALARM SYSTEM.
 - THE WIRING OF LUMINAIRES, WIRING DEVICES AND CONTROL DEVICES, WITHIN EACH INTENDED CONTROL SCHEME, SHALL BE FULLY IMPLEMENTED USING THE PROPER TYPE AND NUMBER OF WIRES WITH CONNECTIONS AS REQUIRED.

- C. PRODUCTS**
- MAIN SWITCHBOARD – EXISTING
 - MANUFACTURERS: SQUARE D
 - MAIN BREAKERS: MOLDED CASE 65,000AIC MIN
 - BRANCH BREAKERS: 42,000AIC MIN
 - PANELBOARDS:
 - MANUFACTURERS: SIEMENS, GENERAL ELECTRIC, SQUARE D OR CUTLER-HAMMER.
 - BRANCH BREAKERS: 10,000AIC MIN
 - NEUTRAL BUS: COPPER FULL LENGTH WITH LUGS
 - GROUND BUS: FULL SIZE
 - OTHERS: 60HZ, 10,000AMP BUS BRACINGS
 - CONDUITS:
 - MANUFACTURERS: ALLIED TUBE & CONDUIT CORP., TRIANGLE PWC INC., WHEATLAND TUBE CO., INC. OR APPROVED EQUAL.
 - METALLIC TYPE: RSC, IMC, EMT AND FLEXIBLE.
 - NON-METALLIC TYPE: PVC SCHEDULE 40.
 - CONDUCTORS: COPPER MINIMUM 75-DEG.C INSULATION (THW, THWN). MANUFACTURED BY ROME CABLE, GRAYBAR
 - METALLIC CLAD CABLE: ALUMINUM-CLAD, COPPER MINIMUM 75-DEG.C INSULATION (THW, THWN) MEETS UL STANDARD 1569 AND NEC 334. MANUFACTURED BY ALFLEX CORP.
 - BOXES:
 - MANUFACTURERS: T&B STEEL CITY, WIREMOLD WALKERBOX
 - TYPE: STEEL-STAMPED. SUITABLE FOR ENVIRONMENT.
 - EXTERIOR AND SITE BOXES: CHRISTY OR FORNI.
 - DEVICES:
 - SWITCHES 15A-120V: LUTRON MAESTRO OR EQUAL.
 - RECEPTACLES 15A/20A-120V: LEVITON DECORA PLUS OR EQUAL.
 - WALL PLATES: LEVITON DECORA PLUS OR EQUAL.
 - SPECIALTY TYPE: NEMA CONFIGURATIONS AS SHOWN ON PLANS.
 - OCCUPANCY SENSOR:
 - WALL BI-LEVEL: WATTSTOPPER W1-300
 - CEILING: WATTSTOPPER A-1000/A-2000 WITH RELAY MODULE
 - LUMINAIRES: AS SCHEDULED

REVISIONS	BY
ISSUE FOR PERMIT 10-28-11	

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SPECIFICATIONS
 BUILDING "D"
 HINDU COMMUNITY and CULTURAL CENTER
 1200 ARROWHEAD AVE. LIVERMORE, CA 94551

DATE	10/28/11
SCALE	NONE
DRAWN BY:	LA
PROJECT:	ARROWHEAD



GENERAL NOTES

1. WORK PROVIDED UNDER THIS DIVISION SHALL BE IN CONFORMANCE WITH THE APPLICABLE PORTION OF THE 2007 CBC, CMC, CFC, NEC, 2008 TITLE-24 ENERGY STANDARDS, AND THE CITY OF LIVERMORE AND THE COUNTY REQUIREMENTS.
2. PROVIDE U.L. 555 LISTED FIRE DAMPERS AT ALL DUCT PENETRATION THROUGH THE FIRE RATED ASSEMBLIES. PROVIDE UL-555S LISTED COMBINATION FIRE-SMOKE DAMPERS AT ALL THE OCCUPANCY SEPARATION WALLS AND DUCTS PENETRATING RATED CORRIDOR WALLS & SHAFT ASSEMBLIES IN ACCORDANCE WITH 2007 CBC SECTION 713.10/11. PROVIDE PROPER SLEEVE LENGTHS TO MATCH THE WALL DEPTH. MOUNT ACTUATORS, END SWITCHES, HEAT DETECTOR, SMOKE DETECTORS, ETC. ON ACCESSIBLE SIDE OF FSD.
3. FIRE AND FIRE-SMOKE DAMPERS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. THE MANUFACTURER'S SPECIFICATIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY.
4. ALL PENETRATIONS AT WALLS, CEILINGS, FLOORS, ETC. BY THE DUCTWORK, PIPING, CONDUITS, ETC. SHALL BE SEALED WITH APPROVED U.L. LISTED FIRE STOPPING ASSEMBLIES TO MAINTAIN THE INTEGRITY OF THE FIRE RATING OF THOSE ASSEMBLIES. REFER TO ARCHITECTURAL FLOOR PLANS FOR WALL TYPES & LOCATIONS.
5. ALL MECHANICAL EQUIPMENT, DUCTWORK, PIPING, CONDUITS, TANKS, PACKAGED EQUIPMENT, ETC. SHALL BE SEISMICALLY ANCHORED AND BRACED IN ACCORDANCE WITH CBC, SMACNA REQUIREMENTS.
6. DIVISION-15 CONTRACTOR SHALL COORDINATE THE POWER REQUIREMENT WITH THE DIVISION-16 WORK, INCLUDING THE VOLTAGE, PHASE, AMP REQUIREMENT, OVERLOAD PROTECTION REQUIREMENT, LOCATION OF STARTERS, DISCONNECTS, INTERLOCK WIRING, POWER WIRING TO FSD'S, WIRING TO SMOKE DETECTORS, ACTUATORS, ETC.
7. INSTALL FANS, FIRE DAMPERS & FIRE/SMOKE DAMPERS AND OTHER MECHANICAL COMPONENTS REQUIRING PERIODIC SERVICE & MAINTENANCE ACCESS TO BE COMPLETELY ACCESSIBLE FROM THE CEILING ACCESS PANELS. PROVIDE CODE MANDATED CLEARANCES AT ALL EQUIPMENT & ELECTRICAL PANELS.
8. DIVISION-15 CONTRACTOR SHALL COORDINATE THE LOCATION, SIZE & ELEVATION OF THE CONCRETE HOUSEKEEPING PADS WITH THE CONCRETE WORK BASED ON THE ACTUAL MECHANICAL EQUIPMENT PROPOSED FOR THE PROJECT. CONTRACTOR SHALL ALSO COORDINATE THE LOCATION, SIZE OF THE CONCRETE WALL AND SLAB PENETRATIONS WITH THE RESPECTIVE TRADE CONTRACTORS.
9. THIS DIVISION CONTRACTOR SHALL PROVIDE COMPLETE COOPERATION IN COMMISSIONING OF ALL THE MECHANICAL, ELECTRICAL, PLUMBING AND CONTROL SYSTEMS BY PROVIDING FULLY QUALIFIED PERSONNEL, EQUIPMENT, TESTING TOOLS, MANPOWER AS NECESSARY TO COMPLETE THE COMMISSIONING, TESTING & DOCUMENTATION TASKS AS NECESSARY LEED V2.2 FUNDAMENTAL COMMISSIONING REQUIREMENT.
10. ALL MATERIALS OF CONSTRUCTION INCLUDING SEALANTS; WALL, ROOF, & CEILING ELEMENTS; INSULATION; WIRING & CABLES; DEVICES AND EQUIPMENTS; TUBING, ETC. THAT COMES IN CONTACT WITH SUPPLY AIR, OUTSIDE AIR AND RETURN AIR SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND SMOKE DEVELOPED RATING OF NOT MORE THAN 50.
11. FOR DUCTWORK, PIPING & CONDUIT PENETRATIONS THROUGH SOUND-RATED WALLS REFER TO DETAILS AND LOCATION OF SOUND-RATED WALLS REFER TO ARCHITECTURAL PLANS.
12. AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2,000 CFM TO ENCLOSED SPACES WITHIN THE BUILDING SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF IN COMPLIANCE WITH UMC SECTION 609. THE AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR-MOVING EQUIPMENT WHEN SMOKE IS DETECTED IN THE MAIN SUPPLY DUCT CONNECTED TO THE EQUIPMENT.
13. DIVISION-15 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE T-24 MANDATORY POST-INSTALLATION TESTING AND COMPLIANCE VERIFICATION AND DOCUMENTING, THE ECONOMIZER OPERATION, OUTSIDE AIR MEASUREMENT FOR EACH EACH, DUCT LEAKAGE TESTING AND DOCUMENTATION AND CONTROL SYSTEM OPERATION PER THE 2008 T-24 REQUIREMENTS.
14. LEED COMPLIANCE REQUIREMENTS: COMPLY WITH THE MANDATORY REQUIREMENTS AND OPTIONAL LEED COMPLIANCE REQUIREMENTS AS OUTLINED BELOW FOR MECHANICAL AND PLUMBING SYSTEMS. REFER TO OTHER LEED COMPLIANCE REQUIREMENTS SPECIFIED IN THE LEED CHECKLIST TITLED "LEED FOR NEW CONSTRUCTION v2.2 WORKSHEET FOR HINDU COMMUNITY AND CULTURAL CENTER PHASE-1B BUILDING-C ADMINISTRATION BUILDING, ADDRESS:1232 ARROWHEAD AVENUE".

CREDIT#	POINTS	DESCRIPTION
- WEc3.1	1	WATER USE REDUCTION, 20% REDUCTION
- EAcP1	MANDATORY	FUNDAMENTAL COMMISSIONING OF THE BUILDING ENERGY SYSTEMS
- EAp2	MANDATORY	MINIMUM ENERGY PERFORMANCE 9TITLE-24 COMPLIANCE)
- EAp3	MANDATORY	FUNDAMENTAL REFRIGERANT MANAGEMENT (NO CFC & HCFC)
- EAc1	2	OPTIMIZE ENERGY PERFORMANCE (14% BETTER THAN 2008 TITLE-24)
- EQp1	MANDATORY	MINIMUM IAQ PERFORMANCE. COMPLY WITH ASHRAE 62.1 FOR VENTILATION.
- EQc3.1	1	CONSTRUCTION IAQ MANAGEMENT PLAN, DURING CONSTRUCTION.
- EQc3.2	1	CONSTRUCTION IAQ MANAGEMENT PLAN, BEFORE OCCUPANCY.
- EQc5	1	INDOOR CHEMICAL & POLLUTANT SOURCE CONTROL.

DRAWING LIST - BUILDING "D"

DWG. NO.	DESCRIPTION
M-10.0	MECHANICAL LEGEND, DRAWING INDEX, GENERAL NOTES
M-11.1	MECHANICAL EQUIPMENT SCHEDULES
M-11.2	MECHANICAL EQUIPMENT SCHEDULES
M-11.3	SPECIFICATIONS
M-11.4	SPECIFICATIONS
M-13.0	MECHANICAL PLAN - BUILDING D
M-14.0	MECHANICAL ROOF PLAN - BUILDING D
M-15.0	MECHANICAL DETAILS - BUILDING D
T-24.1	TITLE-24 COMPLIANCE FORMS
T-24.2	TITLE-24 COMPLIANCE FORMS
T-24.3	TITLE-24 COMPLIANCE FORMS
T-24.4	TITLE-24 COMPLIANCE FORMS
T-24.5	TITLE-24 COMPLIANCE FORMS

ABBREVIATIONS

ABBR	DESCRIPTION
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR (DUCT)
AFMD	AIR FLOW MEASURING DEVICE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL (WALL OR CEILING)
ARCH	ARCHITECTURAL
AS	AIR SEPARATOR
ASD	AUTOMATIC SMOKE DAMPER
AVD	AUTOMATIC VOLUME DAMPER
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BAS	BUILDING AUTOMATION SYSTEM
BTUH	BRITISH THERMAL UNITS PER HOUR
CBBDD	COUNTER BALANCED BACKDRAFT DAMPER
CC	COOLING COIL
CFF	CAPPED FOR FUTURE
CFM	CUBIC FEET PER MINUTE
CU	OUTDOOR CONDENSER UNIT
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DEFL	DEFLECTION
E	EXISTING
EA,OA	EXHAUST AIR, OUTSIDE AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
EWT	ENTERING WATER TEMPERATURE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FBM	FEET PER MINUTE
FPS	FEET PER SECOND
FSG	FLOOR SUPPLY GRILLE
FT	FEET
GPM	GALLONS PER MINUTE
HW	HEATING HOT WATER
HC	HEATING COIL
HP	HORSE POWER
HWP	HEATING WATER PUMP
HV	HEATING & VENTILATING
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (USGBC)
LRA	LOCKED ROTOR AMPS
LVL	LEVEL
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CONTROL PANEL
MFR	MANUFACTURER
NC	NORMALLY CLOSED OR NOISE CRITERIA
NIMC	NOT IN MECHANICAL CONTRACT
NO	NORMALLY OPEN
OSD	OPPOSED BLADE DAMPER
OPER WT	OPERATING WEIGHT
OPP	OPPOSITE
PCD	PRIMARY CONDENSATE DRAIN
PD	PRESSURE DROP
PH	PHASE
PRESS	PRESSURE
PSIG	POUNDS PER SQUARE INCH
RA,SA	RETURN AIR, SUPPLY AIR
REF	REFERENCE
RF	RETURN FAN
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
SAD	SEE ARCHITECTURAL DRAWINGS
SCD	SECONDARY CONDENSATE DRAIN
SF	SUPPLY FAN
S.F.	SQUARE FEET
SN	SHEET NOTES
SP	STATIC PRESSURE
ST	SOUND TRAP
STR	STRAINER
TCV	TEMPERATURE CONTROL VALVE
TCP	TEMPERATURE CONTROL PANEL
TD	TEMPERATURE DIFFERENCE
TEF	TOILET EXHAUST FAN
TEMP	TEMPERATURE
TDH	TOTAL DYNAMIC HEAD
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VAV TERMINAL OR VOLT
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VIB	VIBRATION ISOLATOR
WB	WET BULB
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
XFMR	TRANSFORMER
OA	OUTSIDE AIR
SD	DUCT SMOKE DETECTOR

LEGEND

SYMBOL	ABBR	DESCRIPTION
		DETAIL NUMBER DRAWING NUMBER
		SECTION NUMBER DRAWING NUMBER
		EQUIPMENT IDENTIFICATION EQUIPMENT NUMBER
		EXISTING
		NEW
	CSD/CMS	CEILING SUPPLY DIFFUSER
	CER (G)	CEILING EXHAUST REGISTER(GRILLE)
	CRR/CMR (G)	CEILING RETURN REGISTER(GRILLE)
	WSR	WALL SUPPLY REGISTER
	WER (G)	WALL EXHAUST REGISTER (GRILLE)
	WRR (G)	WALL RETURN REGISTER (GRILLE)
		SECTION THRU SUPPLY OR OUTSIDE AIR DUCT
		SECTION THRU RETURN DUCT
		SECTION THRU EXHAUST DUCT
		AIR OUTLET DESIGNATION CODE (SEE SCHEDULE)
	FSR	FLOOR SUPPLY REGISTER
		AIR OUTLET DESIGNATION
		EXHAUST/RETURN OUTLET
		LINEAR DIFFUSER DESIGNATION
		SUPPLY PLENUM LENGTH(FT.)
		SLOT WIDTH
		NO. OF SLOT

LEGEND

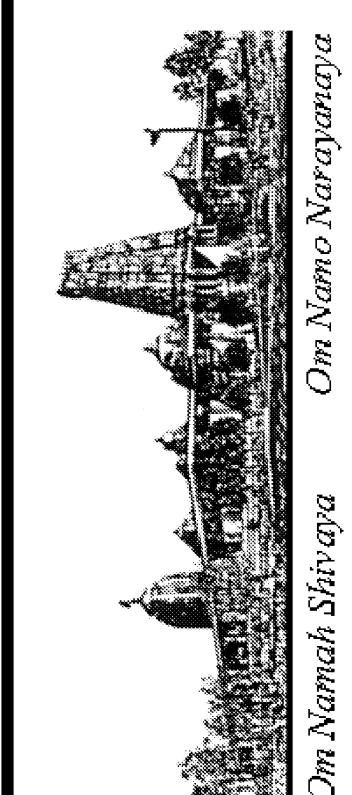
SYMBOL	ABBR	DESCRIPTION
	R (D)	DUCT RISE OR DROP
	AL(PL)	ACOUSTICAL LINING (PLENUM LINING)
		DUCT ENCLOSED IN GYP. BOARD ENCLOSURE (SEE ARCHITECTURAL DWGS)
		DIRECTION OF AIRFLOW
	FC	FLEXIBLE DUCT CONNECTION
		FLEXIBLE DUCT FOR SUPPLY (FLEXIBLE DUCT CONNECTION FOR EXHAUST)
	AVD	AUTOMATIC VOLUME DAMPER
	ASD(SD)	AUTOMATIC SMOKE DAMPER
	CBBDD	COUNTER BALANCED BACK DRAFT DAMPER
	FD	FIRE DAMPER
	BDD	BACK DRAFT DAMPER
	FSD	COMBINATION FIRE/SMOKE DAMPER WITH ACTUATOR
	VD	VOLUME DAMPER
	VD	VOLUME DAMPER WITH REMOTE REGULATOR
	TV	TURNING VANES
	BP	BEAM PENETRATION
		ACCESS PANEL
		SQUARE TO ROUND DUCT
		REDUCING TRANSITION
		REDUCING TRANSITION
		UNDERCUT DOOR - SEE ARCH. DWGS.
		THERMOSTAT
		TEMPERATURE SENSOR
	SD	DUCT SMOKE DETECTOR
		LINE CONTINUED
	CFF	CAPPED FOR FUTURE
	UP	PIPING UP
	DN	PIPING DOWN
	SL	REFRIGERANT SUCTION LINE
	LL	REFRIGERANT LIQUID LINE
	CD	CONDENSATE DRAIN
	G	NATURAL GAS
	D	DRAIN
	TF	TEST FITTING
		UNION
	PG	PRESSURE GAUGE
	TH	THERMOMETER
	GV	GATE VALVE
	BV	BUTTERFLY (2 1/2" OR LARGER), (BALL VALVE 2" OR SMALLER)

REVISIONS	BY
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LEGEND, NOTES & DRAWING INDEX
BUILDING "D"
HINDU COMMUNITY and CULTURAL CENTER
 1200 ARROWHEAD AVE. LIVERMORE, CA 94551

DATE	10/28/11
SCALE	NONE
DRAWN BY	PT
PROJECT	ARROWHEAD



M-10.0

PACKAGED ROOFTOP AIR CONDITIONING UNIT SCHEDULE

MANUFACTURER: Trane, Carrier or Approved Equal

CODE	MODEL	COOLING CAPACITY			COOLING COIL				GAS HEATING CAPACITY		SUPPLY FAN						FILTERS					POWER EXHAUST FAN					UNIT ELECTRICAL			SEER/AFUE	OPER. WEIGHT LBS.	REMARKS	
		TONS	SENS MBH	TOTAL MBH	EAT DB	EAT WB	LAT DB	LAT WB	INPUT (MBH)	OUTPUT (MBH)	CFM	ESP (In.W.G.)	RPM	BHP	HP	MIN. OA CFM	TYPE	QTY	PD		EFF/MERV	TYPE & MODEL NO.	CFM	SP (In.W.G.)	BHP	HP	RPM	MCA	MOCp				V/PH/HZ
																			CLEAN	DIRTY													
AC-D-1	YHC-060	5	48.4	62.4	80	67	60	57.6	60	48	2000	0.6	1057	0.99	1	600	2"	-	0.35	1"	85/MERV-13	TRANE	2000	0.375	0.42	0.31	KW	28.8	45	208/3PH/60	12 / 81	1,300	① THRU ⑬
AC-D-2	YHC-072	6	55.6	72.5	80	67	60	57.6	80	64	2,500	0.6	850	0.95	1	690	2"	-	0.35	1"	85/MERV-13	TRANE	2,500	0.375	0.42	0.31	KW	34.80	50	208/3PH/60	12 / 81	1,750	⑬
AC-D-3	YHC-048	4	39.4	49.4	80	67	60	57.6	60	48	1,600	0.6	973	0.7	1	600	2"	-	0.35	1"	85/MERV-13	TRANE	1,600	0.375	0.42	0.31	KW	22.8	35	208/3PH/60	12 / 81	1,200	
AC-D-4	YHC-060	5	45.4	61.4	80	67	60	57.6	60	48	1850	0.6	1000	0.81	1	630	2"	-	0.35	1"	85/MERV-13	TRANE	1850	0.375	0.42	0.31	KW	28.8	45	208/3PH/60	12 / 81	1,300	⑬
AC-D-5	YHC-060	5	45.4	61.4	80	67	60	57.6	60	48	1850	0.6	1000	0.81	1	660	2"	-	0.35	1"	85/MERV-13	TRANE	1850	0.375	0.42	0.31	KW	28.8	45	208/3PH/60	12 / 81	1,300	⑬

NOTES:

- | | |
|---|---|
| <p>① UNIT LOCATED ON MAIN ROOF ON 14" ROOF CURB.</p> <p>② UNIT WITH R-410A REFRIGERANT, AI/CU COND & EVAP COILS</p> <p>③ SEER LISTED AT STANDARD CONDITIONS.</p> <p>④ UNIT SELECTION BASED ON 95 F AMBEINT.</p> <p>⑤ BOTTOM SUPPLY AND RETURN DISCHARGE.</p> <p>⑥ FACTORY INSTALLED OSA ECONOMIZER CONTROL & POWER EXHAUST & SINGLE-POINT POWER SUPPLY.</p> <p>⑦ PROVIDE 14" TALL WELDED STEEL CURB, 2007 CBC COMPLIANT, MICROMETL CORP. SERIES OR EQUAL TO MATCH THE AC UNIT SIZE.</p> | <p>⑧ PROVIDE HINGED AND INSULATED ACCESS DOOR AND 2-INCH THICK MERV 13 FILTERS.</p> <p>⑨ PROVIDE MATCHING ELECTRONIC PROGRAMMABLE, T-24 COMPLIANT 7-DAY WALL THERMOSTAT.</p> <p>⑩ PROVIDE FACTORY FURNISHED OUTSIDE AIR HOOD AND EXHAUST AIR HOOD AT AC UNIT AIR INLET AND EXHAUST (TYP).</p> <p>⑪ PROVIDE GAS PRESSURE REGULATOR IF REQUIRED.</p> <p>⑫ AC UNITS SHALL BE PROVIDED WITH DEMAND CONTROL VENTILATION OPTIONAL PACKAGE AND ROOM CO2 SENSOR TO MODULATE OPEN THE OUTSIDE AIR DAMPER BETWEEN MINIMUM AND MAX SETTINGS (ADJUSTABLE) TO LIMIT THE AMOUNT OF CO2 LEVEL IN THE OCCUPIED SPACE PER T-24.</p> <p>⑬ PROVIDE SMOKE DETECTOR(S) FOR AUTO SHUT-DOWN OF UNIT.</p> |
|---|---|

EXHAUST FAN SCHEDULE

MFR: GREENHECK

CODE	SYSTEM	SERVICE	LOCATION	CFM	TOTAL SP IN. WC	RPM	BHP	MODEL NO./ SIZE	TYPE	ROOF CURB THROAT SIZE LXWXH	POWER REQUIREMENT			OPER. WT LBS	SOUND CRITERIA (SONE)	REMARKS	
											MTR HP	VFD	V/PH/HZ				
EF-D-1		BLDG-D, MENS TOILET ROOM EXH.	ROOF	625	0.375	1550	0.12	G-95-D	MUSHROOM	14X14	1/8		NO	120V/1Ø	150	8.7	① ② ③
EF-D-2		BLDG-D, WOMENS TOILET ROOM EXH.	ROOF	575	0.375	1500	0.12	G-95-D	MUSHROOM	14X14	1/8		NO	120V/1Ø	150	8.7	① ② ③
BEF-D-1		BLDG-D, LOUNGE TOILET	CEILING	80/30	0.20	-	-	FV-08VKS3	CABINET	-	10 WATTS	-	120V/1Ø	15	0.3	⑤ ⑥ PANASONIC	
BEF-D-2		BLDG-D, LOUNGE TOILET	CEILING	80/30	0.20	-	-	FV-08VKS3	CABINET	-	10 WATTS	-	120V/1Ø	15	0.3	⑤ ⑥ PANASONIC	
BEF-D-3		BLDG-D, LOUNGE TOILET	CEILING	80/30	0.20	-	-	FV-08VKS3	CABINET	-	10 WATTS	-	120V/1Ø	15	0.3	⑤ ⑥ PANASONIC	
BEF-D-4		BLDG-D, LOUNGE TOILET	CEILING	80/30	0.20	-	-	FV-08VKS3	CABINET	-	10 WATTS	-	120V/1Ø	15	0.3	⑤ ⑥ PANASONIC	

REMARKS:

- ① PROVIDE FACTORY MATCHED 8" ROOF CURB, FLASHING AND COUNTERFLASHING. SECURE CURB TO THE ROOF STRUCTURE WITH GALV. STEEL ANCHOR BOLTS.
- ② EXHAUST FANS SHALL BE FACTORY FURNISHED WITH BACKDRAFT DAMPER. FURNISHED SPEED CONTROLLER TO BE MOUNTED IN NEMA 3R ENCLOSURE BY MECHANICAL AND WIRED BY ELECTRICAL CONTRACTOR.
- ③ EXHAUST FANS SHALL BE CONTROLLED FROM A CENTRALLY LOCATED ELECTRONIC PROGRAMMABLE TIME CLOCK.
- ④ EXHAUST FANS SHALL BE CONTROLLED ON/OFF BY LIGHT SWITCH.
- ⑤ PANASONIC "WHISPER GREEN" EXHAUST FAN WITH VARIABLE SPEED CONTROL & INTEGRAL HIGH/LOW DELAY TIMER, ENERGY STAR, UL LISTED FOR TUB/SHOWER ENCLOSURE. EXHAUST FAN WIRED BY ELECTRICAL, SUPPLIED & INSTALLED BY MECHANICAL.
- ⑥ WHEN FAN SWITH IS IN OFF MODE, EXH FAN SHALL RUN AT LOW SPEED TO PROVIDE CONTINUOUS 30 CFM EXH. WHEN SWITCH IS IN "ON" MODE, IT SHALL EXHAUST 100% FULL CAPACITY.

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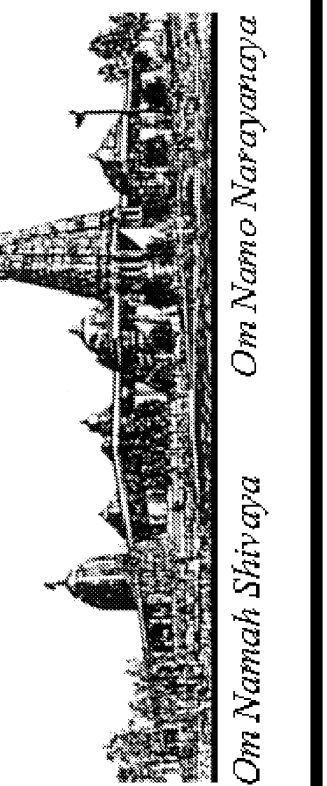
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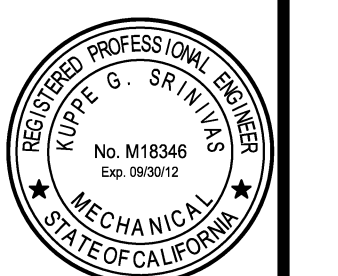


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SCHEDULES
BUILDING "D"
HINDU COMMUNITY and CULTURAL CENTER
1200 ARROWHEAD AVE. LIVERMORE, CA 94551

DATE: 10/28/11
SCALE: NONE
DRAWN BY: PT
PROJECT: ARROWHEAD



M-11.1

VIBRATION ISOLATOR SCHEDULE										MANUF: MASON OR APPROVED EQUAL
EQUIPMENT	TYPE	SERVICE	LOCATION	ISOLATOR		BASE		SEISMIC RESTRAINTS	MODEL NO. ISOLATOR/SEISMIC	REMARKS
				CODE	S.D.	CODE	WT#			
AC-D-1	ROOFTOP ACU	BUILDING D	ROOF	N-1	1/4"	-	-	ANCHOR BOLTS	-	①②③④
AC-D-2	ROOFTOP ACU	BUILDING D	ROOF	N-1						
AC-D-3	ROOFTOP ACU	BUILDING D	ROOF	N-1						
AC-D-4	ROOFTOP ACU	BUILDING D	ROOF	N-1						
AC-D-5	ROOFTOP ACU	BUILDING D	ROOF	N-1						
EF-D-1	MUSHROOM	TOILET EXH	ROOF	N-1	1/8"	-	-	ANCHOR BOLTS		①④
EF-D-2	MUSHROOM	TOILET EXH	ROOF	N-1	1/8"	-	-	ANCHOR BOLTS		①④
						-	-			

NOTES:
 ① FANS LOCATED INSIDE THE EQUIPMENT SHALL BE INTERNALLY ISOLATED.
 ② ANCHOR BOLTS AND ISOLATORS EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED OR PROTECTED WITH EXTERIOR GRADE ENAMEL PAINT.
 ③ NEOPRENE SUPER-W PAD ISOLATORS SHALL BE LOCATED BETWEEN THE ROOF CURB AND THE UNIT BASE TO SEAL AND ISOLATE. INSTALL PER MANUFACTURERS' GUIDELINES.
 ④ UNITS WITH FACTORY FURNISHED MATCHING ROOF CURB. SEE EQUIPMENT SCHEDULE.

AIR OUTLET SCHEDULE			MFR: TITUS U.O.N.
CODE	MODEL ②	DESCRIPTION ①③④	
CSD1	PSS	PERFORATED FACE, MODULAR CORE CEILING SUPPLY DIFFUSER, 24"x24" FACE, STEEL CONSTRUCTION. BORDER TYPE TO MATCH CEILING TYPE. PROVIDE OBD WHERE REQUIRED FOR BALANCING AND AS INDICATED ON DRAWINGS. PROVIDE SQUARE TO ROUND TRANSITION FOR CONNECTION TO ROUND DUCT.	
CSD2	PSS	SAME AS CSD1 EXCEPT 12"x12" FACE.	
CER1, CEG1 CRR1, CRG1	PAR	PERFORATED FACE EXHAUST OR RETURN REGISTER OR GRILLE, 24"x24" FACE, STEEL CONSTRUCTION. BORDER TYPE TO MATCH CEILING TYPE. PROVIDE OBD FOR REGISTERS. PROVIDE LINED PLENUM WITH TOP OR SIDE OUTLET FOR DUCT CONNECTION. PROVIDE ACOUSTICAL BOOT WITH VOLUME DAMPER WHERE SHOWN.	
CER2, CEG2 CRR2, CRG2	PAR	SAME AS CER1, CEG1, CRR1, CRG1, EXCEPT 12"x12" OR 18"x18" FACE.	
WSG1	350FL	LOUVERED WALL SUPPLY GRILLE, 3/4" BLADE SPACING, ALUMINUM CONSTRUCTION.	

NOTES:
 ① FINISHES AS SELECTED BY AND APPROVED BY ARCHITECT.
 ② SUFFIX "-A" DESIGNATES ALUMINUM CONSTRUCTION.
 ③ ALL AIR OUTLETS SHALL BE SELECTED FOR NC-25, UNLESS MENTIONED OTHERWISE.
 ④ ALL BRANCH DUCT INLET CONNECTION SIZES SHALL BE THE SAME SIZE AS THE AIR OUTLET DUCT CONNECTION SIZES UNLESS OTHERWISE NOTED. PROVIDE SQUARE TO ROUND DUCT TRANSITION AS REQUIRED.

SPLIT SYSTEM HEAT PUMP SCHEDULE (INDOOR)													MFR: FUJITSU		
CODE	MODEL/TYPE	TONS	SERVICE	LOCATION	NOM. CAPACITY (MBH)		SUPPLY FAN			INDOOR UNIT ELECTRICAL				WEIGHT	REMARKS
					COOLING	HEATING	MIN. CFM	MAX. CFM	HP	FUSE	WSA	HFCB	VOLT/Ø		
IAC-D-1	12RLS / WALL MOUNTED	1	PRIEST LOUNGE RM # 112	RM. # 112	12.0	16.0	177	430	-	15A	-	-	208/1	50	①②③④
IAC-D-1	12RLS / WALL MOUNTED	1	PRIEST LOUNGE RM # 111	RM. # 111	12.0	16.0	177	430	-	15A	-	-	208/1	50	①②③④
IAC-D-1	12RLS / WALL MOUNTED	1	SENIOR LOUNGE RM # 110	RM. # 112	12.0	16.0	177	430	-	15A	-	-	208/1	50	①②③④
IAC-D-1	12RLS / WALL MOUNTED	1	SENIOR LOUNGE RM # 109	RM. # 112	12.0	16.0	177	430	-	15A	-	-	208/1	50	①②③④

REMARKS:
 ① PROVIDE INDOOR FAN COIL UNIT WITH MATCHING OUTDOOR UNITS.
 ② PROVIDE REFRIGERANT PIPES TO EACH FAN COIL UNIT.
 ③ CONFIRM REFRIGERANT PIPE SIZES WITH FACTORY PRIOR TO INSTALLATION.
 ④ INSULATE SUCTION PIPE WITH FOAM INSULATION (TYP).

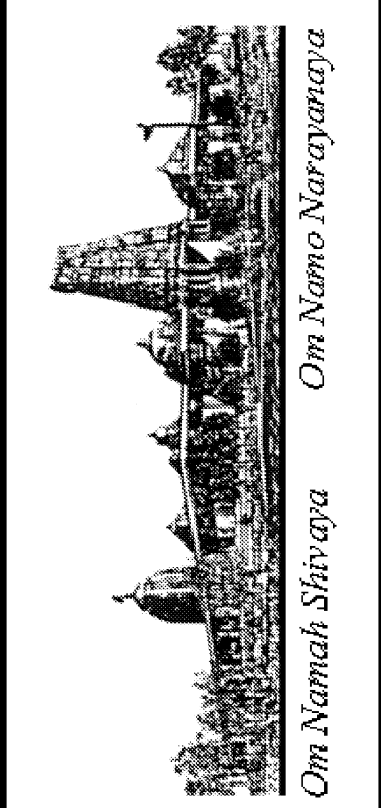
SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OUTDOOR)												MFR: FUJITSU
CODE	SERVICE	LOCATION	MODEL NO.	OUTDOOR UNIT ELECTRICAL							WEIGHT	REMARKS
				VOLT	PHASE	Hz	MCA	FLA	WSA	FUSE		
ACC-D-1	IAC-D-1	ROOF	AOU12RLS	208	1	60	10A	-	-	15A	120 LBS.	EER=14.5, HSPF=12.00
ACC-D-2	IAC-D-2	ROOF	AOU12RLS	208	1	60	10A	-	-	15A	120 LBS.	EER=14.5, HSPF=12.00
ACC-D-3	IAC-D-3	ROOF	AOU12RLS	208	1	60	10A	-	-	15A	120 LBS.	EER=14.5, HSPF=12.00
ACC-D-4	IAC-D-4	ROOF	AOU12RLS	208	1	60	10A	-	-	15A	120 LBS.	EER=14.5, HSPF=12.00

FIRE SMOKE DAMPERS SCHEDULE			MFR: RUSKIN
CODE	MODEL NO.	DESCRIPTION	
FSD-1	FSD-60	COMBINATION FIRE/SMOKE DAMPER UL 555S CLASSIFIED AND CLASS I LEAKAGE RATED AND TESTED. PROVIDE 120V ELECTRIC MOTOR ACTUATOR TS 150 FIRESTAT AND MOUNTING ANGLES. FSD TO HAVE PRIMARY HEAT SENSING DEVICE SET AT 165°F AND SECONDARY HEAT SENSING DEVICE SET AT 350°F. POWER OPEN, FAIL CLOSE TYPE. CALIFORNIA STATE FIRE MARSHAL LISTING NUMBER 3225-245-102. FSD SHALL INCLUDE REMOTE POSITION INDICATOR LIGHT PLATE AFFIXED TO THE CEILING TILE.	

REVISIONS	BY
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SCHEDULES
BUILDING "D"
HINDU COMMUNITY and CULTURAL CENTER
 1200 ARROWHEAD AVE. LIVERMORE, CA 94551

DATE: 10/28/11
 SCALE: AS NOTED
 DRAWN BY: PT
 PROJECT: ARROWHEAD



M-11.2

PLUMBING SPECIFICATIONS:

I. GENERAL

- 1.01 CONDITIONS AND REQUIREMENTS:
- A. THE GENERAL CONDITIONS AND GENERAL REQUIREMENTS OF THE CONTRACT DOCUMENT ARE HEREBY MADE A PART OF THIS SECTION AS FULLY AS IF REPEATED HEREIN.
- 1.02 DESCRIPTION OF WORK:
- A. EXTENT OF PLUMBING SYSTEM WORK REQUIRED BY THIS SECTION IS INDICATED ON DRAWINGS, SCHEDULES AND BY REQUIREMENTS OF THIS SECTION.
- B. TYPE OF WORK SPECIFIED INCLUDE THE FOLLOWING:
- SANITARY DRAINAGE AND VENT SYSTEMS COMPLETE TO POINT OF CONNECTION.
 - POTABLE WATER SYSTEMS COMPLETE TO POINT OF CONNECTION.
 - DOMESTIC HOT WATER SYSTEMS AS SHOWN TO POINT, PIPING, VALVES AND INSULATION.
 - PLUMBING FIXTURES AND TRIM AS SPECIFIED HERE AND THE ARCHITECTURAL DRAWINGS INCLUDING ALL REQUIRED ACCESSORIES.
 - ACCESS PANELS AS REQUIRED FOR WALL, FLOOR AND GRADE CLEANOUTS AND VALVES.
 - SECURE AND PAY FEES FOR PERMIT, LICENSES, INSPECTIONS AND ROYALTIES REQUIRED FOR WORK OF THIS SECTION.
 - OTHER NECESSARY ITEMS REQUIRED AND INCIDENTAL TO COMPLETING ALL PLUMBING WORK AS INDICATED ON THE DRAWINGS AND DESIGNATED HEREIN.
- C. FLASHING REQUIRED IN CONJUNCTION WITH WASTE, VENT AND WATER SYSTEMS ARE INCLUDED AS WORK OF THIS SECTION.
- 1.03 QUALITY ASSURANCE:
- A. MANUFACTURER'S QUALIFICATIONS: FIRMS REGULARLY ENGAGED IN MANUFACTURE OF PLUMBING SYSTEMS, PRODUCTS, OF TYPE, MATERIALS AND SIZES REQUIRED, WHOSE PRODUCTS HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR NOT LESS THAN 5 YEARS.
- B. INSTALLER'S QUALIFICATIONS: FIRM WITH AT LEAST 3 YEARS OF SUCCESSFUL INSTALLATION EXPERIENCE ON PROJECTS WITH PLUMBING SYSTEMS WORK SIMILAR TO THAT REQUIRED FOR THIS PROJECT.
- C. CODES AND STANDARDS:
- 2008 CALIFORNIA PLUMBING CODE COMPLIANCE: COMPLY WITH APPLICABLE PORTIONS OF LOCAL PLUMBING CODE PERTAINING TO SELECTION AND INSTALLATION OF PLUMBING MATERIALS AND PRODUCTS.
 - CCR COMPLIANCE: COMPLY WITH APPLICABLE STATE ENERGY REGULATIONS REQUIREMENTS.
 - AGA COMPLIANCE: ALL GAS APPLIANCES AND EQUIPMENT SHALL COMPLY WITH REQUIREMENTS OF AMERICAN GAS ASSOCIATION.
 - USGBC - LEED v2.2 REQUIREMENTS FOR WATER EFFICIENCY AND WATER SAVINGS.
- 1.04 SUBMITTALS:
- A. OF ALL PLUMBING EQUIPMENT, PLUMBING FIXTURES CUT SHEETS AND PLUMBING MATERIALS FOR OWNER AND OR ARCHITECTS' APPROVAL.
- B. PLUMBING PIPING SHOP DRAWINGS AT 1/4"=1'-0" SCALE MINIMUM.

II. PRODUCTS

- 2.01 PIPING:
- A. DOMESTIC WATER HOT AND COLD: TYPE "L" HARD DRAWN COPPER WITH 95/5 SOLDER JOINTS.
- B. SOIL, WASTE AND VENT ABOVEGROUND: CAST IRON SOIL, PLAIN END (HUBLESS) SERVICE WEIGHT WITH NEOPRENE SLEEVE AND STAINLESS STEEL SHIELD JOINTS.
- 2.02 VALVES:
- A. BALL VALVES: STOCKHAM S-217-BR-R-S, EPT SEAT, THREADED, STOCKHAM FIG. S-214-BR-R-T
- B. CHECK VALVES: THREADED STOCKHAM FIG. B-319 SWEAT, STOCKHAM FIG. B-309
- C. WATER PRESSURE REDUCING VALVES: WATTS, AW CASH, CLAYTON OR APPROVED SUBSTITUTE. CASH FIGURE EB-24U. SET PRESSURE AT 60 PSI.
- 2.03 PIPING INSULATION:
- A. GENERAL IN ACCORDANCE WITH TITLE 24 ENERGY REGULATIONS.
- B. MANUFACTURER: OWEN-CORNING FIBERGLASS, ARMSTRONG, MANVILLE OR CETAIR-TEED.
- C. PRE-MOLDED 1" FIBERGLASS WITH ASJ, R-4 MINIMUM.

2.04 DRAINAGE AND PIPING SPECIALTIES:

- A. MANUFACTURERS: SMITH, JOSAM, WADE, JONESPEC OR ZURN. 100% USA MANUFACTURED COMPONENTS ONLY.
- B. CLEANOUTS: PROVIDE WHERE SHOWN; TYPES AND SIZES AS SCHEDULED.
- C. AIR CHAMBERS: PROVIDE ON ALL COLD AND HOT WATER CONNECTIONS WITHOUT A WATER HAMMER ARRESTOR, 18" HIGH AND DIAMETER SAME SIZE AS SUPPLY. NIBCO MODEL 620L.
- D. TRAP PRIMER: INSTALL WHERE SHOWN OR REQUIRED BY CODE. PRECISION PLUMBING PRODUCTS OR MIFAB; TYPE AND SIZES AS SCHEDULED.
- E. FLOOR DRAINS: PROVIDE WHERE SHOWN; TYPE AND SIZES AS SCHEDULED.
- F. TRAPS: PROVIDE FOR DRAINS, SHOWERS AND SIMILAR TYPE FIXTURES. PROVIDE CLEAN-OUT PLUG IN ALL SINK P-TRAPS.
- G. HOSE BIBBS: WOODFORD OR APPROVED EQUAL HB-1 - MODEL 24P, CHROME FINISH, VACUUM BREAKER HB-2 - MODEL 24P, BRASS FINISH, VACUUM BREAKER
- 2.05 FIXTURE SUPPORTS:
- A. GENERAL: PROVIDE PLUMBING FIXTURE CARRIERS, SUPPORTS, AND DEVICES TO CARRY LOADS INDEPENDENTLY OF WALLS OR PARTITIONS. SECURELY BOLT SUPPORTS TO FLOOR WITH POWDER-DRIVEN OR DRILLED INSERTS OR STUDS.
- B. MANUFACTURER: JOSAM, J.R. SMITH, WADE OR ZURN. SELECTION BASED ON J.R. SMITH.

2.06 ACCESS DOORS AND PANELS: (CEILINGS AND WALLS)

- A. WHERE REQUIRED: WHEREVER A PIECE OF EQUIPMENT OR VALVE AND OPERATOR IS INACCESSIBLE AND REQUIRES ACCESS FOR MAINTENANCE, REPAIR OR ADJUSTMENT.
- B. SIZE: SIZE IS DEPENDENT UPON THE RELATIONSHIP OF THE DOOR TO THE PRODUCT BEING SERVICED; THEREFORE, THE SIZE OF THE DOOR SHALL BE SELECTED TO PROVIDE CONVENIENT ACCESS TO ITS CONTENTS. SUBMIT SIZES FOR REVIEW.
- C. MANUFACTURER: INRYCO/MILCOR, OR EQUAL BILCO, CESCO, KARP OR NYSTROM.

2.07 FIXTURE SUPPLIES AND STOPS

- A. LAVATORIES: SPEEDWAY CRSST-1912-A OR APPROVED SUBSTITUTE.
- B. SINKS: SPEEDWAY CRSST-1912-K OR APPROVED SUBSTITUTE.
- C. WALL MOUNTED FAUCETS: SCREWDRIVER STOPS OR FAUCETS MAY HAVE INTEGRAL STOPS IN LIEU OF SEPARATE STOPS.
- D. TANK WATER CLOSETS: SPEEDWAY CRSST-1912-DL

2.08 FIXTURE FLOW CONTROLS: TO COMPLY WITH TITLE 24 AT EACH FIXTURE AS FOLLOWS: MODEL ARE FOR DOLE:

- A. LAVATORIES: TYPE FMB, 0.5 GPM EXCEPT FAUCETS WITH 0.5 GPM FLOW.
- B. SINKS: TYPE SR, 2.0 GPM.

2.14 PLUMBING FIXTURES:

- A. GENERAL: PROVIDE FACTORY-FABRICATED FIXTURES OF TYPE, STYLE AND MATERIAL. FOR EACH TYPE FIXTURE, PROVIDE MANUFACTURER'S STANDARD TRIM, CARRIER, SEATS AND VALVES AS INDICATED BY THEIR PUBLISHED PRODUCT INFORMATION; EITHER AS DESIGNED AND CONSTRUCTED, OR AS RECOMMENDED BY THE MANUFACTURER, AND AS REQUIRED FOR A COMPLETE INSTALLATION. WHERE MORE THAN ONE TYPE IS INDICATED, SELECTION IS INSTALLER'S OPTION BUT ALL FIXTURE OF THE SAME TYPE MUST BE FURNISHED BY A SINGLE MANUFACTURER OR AS INSTRUCTED BY THE OWNER OR THE ARCHITECT.
- B. OTHER MATERIALS:
- ALL OTHER MATERIALS NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION SHALL BE NEW, FIRST QUALITY OF THEIR RESPECTIVE KINDS, AND SUBJECT TO THE APPROVAL OF THE ARCHITECT.

III. EXECUTION

3.01 GENERAL:

- A. INSPECTIONS:
- PRIOR TO ALL WORK OF THIS SECTION, CAREFULLY INSPECT THE INSTALLED WORK OF ALL OTHER TRADES AND VERIFY THAT ALL SUCH WORK IS COMPLETE TO THE POINT WHERE THIS INSTALLATION MAY PROPERLY COMMENCE.
 - VERIFY THAT ALL PLUMBING MAY BE INSTALLED IN STRICT ACCORDANCE WITH ALL PERTINENT CODES AND REGULATIONS AND THE APPROVED SHOP DRAWINGS.
- B. DISCREPANCIES:
- IN THE EVENT OF DISCREPANCIES, IMMEDIATELY NOTIFY THE ARCHITECT.
 - DO NOT PROCEED WITH INSTALLATION IN AREAS OF DISCREPANCY UNTIL ALL SUCH DISCREPANCIES HAVE BEEN FULLY RESOLVED.
- C. COORDINATION:
- COORDINATE WORK WITH RELATED TRADES TO PREVENT UNDUE DELAY IN JOB PROGRESS.
 - CONTRACTOR SHALL PROVIDE A PERSON TO BE RESPONSIBLE FOR MAINTAINING PROPER POSITIONING AND ALIGNMENT OF ALL ITEMS DURING CONCRETE POURING.
 - PROVIDE MATERIALS IN SUFFICIENT QUANTITIES ON JOB SITE TO COMPLETE THE WORK AND TO ACCOMMODATE MINOR UNFORESEEN CHANGES AND ADDITIONS IN THE SCOPE OF WORK.

3.02 PIPING:

- A. GENERAL:
- SYSTEM LAYOUTS AS INDICATED ON DRAWINGS ARE GENERALLY DIAGRAMMATIC, BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION WILL PERMIT.
- B. PIPING:
- ANY SECTION OF PIPE FOR WHICH SIZE IS NOT SHOWN OR ANY INTERMEDIATE SECTION ERRONEOUSLY SHOWN OBVIOUSLY UNDERSIZED SHALL BE THE SAME SIZE AS THE LARGEST LINE CONNECTING TO IT.
 - INSTALL UNIONS AT CONNECTIONS TO EQUIPMENT, ON SERVICE SIDE OF VALVES AND ELSEWHERE AS REQUIRED OR SHOWN TO FACILITATE MAINTENANCE.
 - INSTALL DIELECTRIC INSULATING CONNECTIONS BETWEEN ALL DISSIMILAR METALS UNLESS OTHERWISE INDICATED.
 - ARRANGE PIPING AND HANGERS TO ALLOW FOR EXPANSION, CONTRACTION AND STRUCTURAL SETTLEMENT. DO NOT INSTALL PIPING IN CONTACT WITH THE BUILDING STRUCTURE.
 - UNLESS SPECIFICALLY INDICATED OTHERWISE, INSTALL PIPING CONCEALED ABOVE CEILINGS, BENEATH THE FLOORS OR IN WALLS.
 - SLOPING, VENTING AND DRAINAGE:
SLOPE PIPING AS INDICATED, TRUE TO LINE AND GRADE FREE OF TRAPS AND AIR POCKETS. UNLESS INDICATED OTHERWISE, SLOPE PING IN DIRECTION OF FLOW AS FOLLOWS:
- | SERVICE | INCLINATION | SLOPE |
|------------------|-------------|--------------------|
| DOMESTIC WATER | LEVEL | |
| SANITARY VENT | UP | 1/8" PER FT (MIN.) |
| SANITARY WASTE | DOWN | 1/4" PER FT (MIN.) |
| CONDENSATE DRAIN | DOWN | 1/4" PER FT (MIN.) |
- RUN ALL PIPING GENERALLY LEVEL, FREE OF UNNECESSARY TRAPS AND BENDS, ARRANGE TO CONFORM TO THE BUILDING REQUIREMENTS AND TO SUIT NECESSITIES OF CLEARANCE FOR OTHER WORK.
 - DOMESTIC WATER: CONNECT COPPER TUBING TO FIXTURES WITH COPPER FITTINGS; CHROME PLATED WHERE EXPOSED. PROVIDE 12" HIGH AIR CHAMBERS AT FIXTURE CONNECTIONS. PREVENT DAMAGE TO FINISHED SURFACES.
 - COPPER: CRIMPING OF COPPER TUBING IS PROHIBITED. ISOLATE COPPER PIPE AND TUBING FROM CONTACT WITH STEEL.
 - THREADED JOINTS: APPLY TEFLON TAPE TO MALE THREADS.
 - SOLDERED JOINTS: CLEAN SURFACES TO BE JOINT OF OIL, GREASE, RUST AND OXIDES. CLEAN SOCKET OF FITTING AND END OF PIPE THOROUGHLY WITH EMERY CLOTH SO AS TO REMOVE RUST AND OXIDES. AFTER CLEANING, APPLY AND END OF PIPE THOROUGHLY WITH EMERY CLOTH SO AS FLUX TO JOINT SURFACE AND SPREAD EVENLY BEFORE ASSEMBLY OR HEATING.

12. DO NOT COVER OR ENCLOSE THE PIPING WORK BEFORE IT HAS BEEN TESTED, INSPECTED AND APPROVED.

13. SEAL ALL PIPING PENETRATING THE ROOF WITH 4 LB. SHEET LEAD FLASHING WITH 8" SKIRT AND COUNTER FLASHING RIM SEALED WITH A NON HARDENING MASTIC.

C. PIPE CLEANING:

- DURING INSTALLATION, PIPING SHALL BE KEPT CLEAN AND DRY. THE PLUMBING CONTRACTOR SHALL PHYSICALLY PRE-CLEAN ALL WATER SYSTEM PIPING TO REMOVE DIRT, DEBRIS, GRASE, OIL AND CORROSION PRODUCTS THAT MAY HAVE ACCUMULATED DURING CONSTRUCTION

D. PIPE TESTING:

- TEST PIPING AS NOTED BELOW WITH NO LEAK OR LOSS OF PRESSURE. REPAIR OR REPLACE DEFECTIVE PIPING UNTIL TESTS ARE ACCOMPLISHED SUCCESSFULLY.

TEST SCHEDULE:

SYSTEM	MEDIUM	PRESSURE	TEST TIME
DOMESTIC WATER	WATER	150 PSIG	4 HOURS
SANITARY VENT	WATER	15 FEET	2 HOURS
SANITARY WASTE	WATER	15 FEET	2 HOURS
PROPANE GAS	AIR	50 PSIG	1 HOUR

E. STERILIZATION OF DOMESTIC WATER PIPING:

- AFTER PRELIMINARY PURGING, CLEANING, AND FLUSHING OF THE SYSTEM, CHLORINATE THE ENTIRE POTABLE DOMESTIC WATER SYSTEM IN ACCORDANCE WITH THE CURRENT RECOMMENDATIONS OF THE AMERICAN WATER WORKS ASSOCIATION AND IN ACCORDANCE WITH ALL PERTINENT STATE AND LOCAL HEALTH CODES AND REGULATIONS.
- CHLORINATE ONLY WHEN PRESCHEDULED AND PROVIDE PROPER WARNING SIGNS AT OUTLETS.
- UPON COMPLETION OF THE STERILIZATION, THOROUGHLY FLUSH THE ENTIRE POTABLE WATER SYSTEM AND IMMEDIATELY FILL THE SYSTEM.
- WHEN STERILIZATION AND FLUSHING ARE COMPLETE, ARRANGE WITH PERTINENT AGENCIES FOR ALL REQUIRED TESTS ON MAINS AND SYSTEMS.

3.03 FIXTURE INSTALLATIONS AND CONNECTIONS:

A. GENERAL:

- SET FIXTURES TO EQUAL HEIGHT, PLUMB OR AT RIGHT ANGLES TO WALL. CONNECT TO WASTE AND WATER SUPPLIES IN NEAT, UNIFORM AND FINISHED MANNER. PROVIDE NECESSARY TRIM AND APPURTENANCES FOR COMPLETE INSTALLATION. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE HEIGHTS, SPACING, ARRANGEMENTS, ETC.

B. CLEANING AND PROTECTION:

- CLEAN PLUMBING FIXTURES OF DIRT AND DEBRIS UPON COMPLETION OF INSTALLATION.
- PROTECT INSTALLED FIXTURES FROM DAMAGE DURING THE REMAINDER OF CONSTRUCTION PERIOD.

C. FIELD QUALITY CONTROL:

- UPON COMPLETION OF INSTALLATION OF PLUMBING FIXTURES AND AFTER UNITS ARE WATER PRESSURIZED, TEST FIXTURES TO DEMONSTRATE CAPABILITY AND COMPLIANCE WITH REQUIREMENTS. WHEN POSSIBLE, CORRECT MALFUNCTIONING UNITS AT SITE, THEN RE-TEST TO DEMONSTRATE COMPLIANCE; OTHERWISE REMOVE AND REPLACE WITH NEW UNITS AND PROCEED WITH RETESTING.
- INSPECT EACH INSTALLED UNIT FOR DAMAGE TO FINISH. IF FEASIBLE, RESTORE AND MATCH FINISH TO ORIGINAL AT SIRE; OTHERWISE, REMOVE FIXTURE AND REPLACE WITH NEW UNIT. FEASIBILITY AND MATCH TO BE JUDGED BY THE ARCHITECT. REMOVE CRACKED OR DENTED UNITS AND REPLACE WITH NEW UNITS.

3.04 CLEANING UP:

- PRIOR TO ACCEPTANCE OF THE BUILDINGS, THOROUGHLY CLEAN ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATION, REMOVING ALL LABELS AND ALL TRACES OF FOREIGN SUBSTANCE, USING ONLY A CLEANING SOLUTION APPROVED BY THE MANUFACTURER OF THE PLUMBING ITEM AND BEING CAREFUL TO AVOID ALL DAMAGE TO FINISHED SURFACES.

- SUBMIT A SIGNED COPY OF ALL TEST REPORTS TO THE ARCHITECTS.

REVISIONS

BY

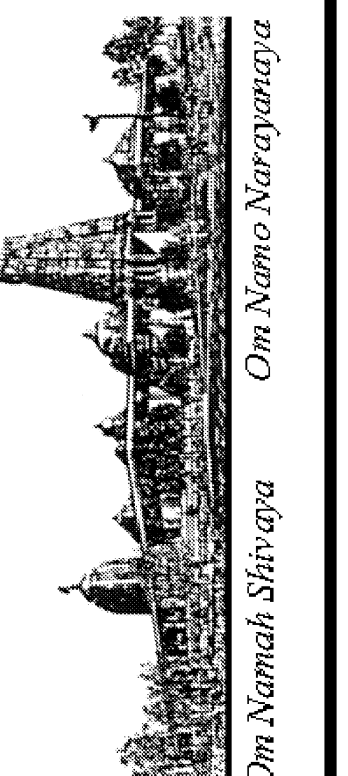
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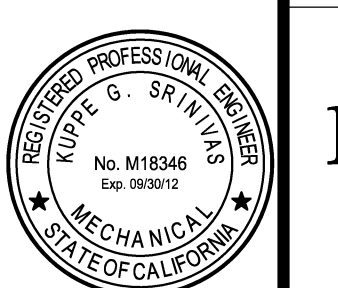
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Om Namah Shivaya
Om Namah Shivaya

PLUMBING SPECIFICATIONS
BUILDING "D"
HINDU COMMUNITY AND CULTURAL CENTER
1200 ARROWHEAD AVE. LIVERMORE, CA 94551

DATE
10/28/11
SCALE:
NONE
DRAWN BY:
KS
PROJECT:
ARROWHEAD

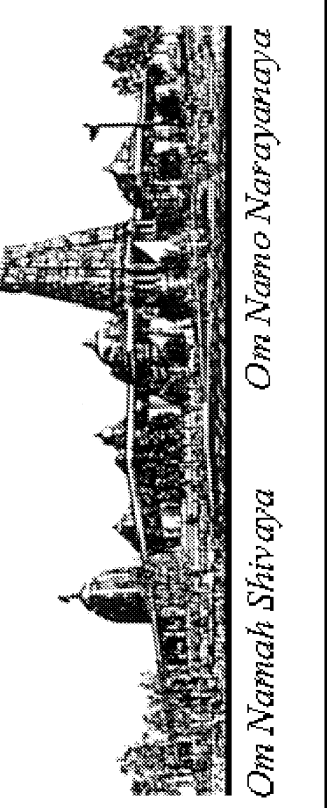


P-11.2D

REVISIONS	BY
ISSUE FOR PERMIT 10-28-11	

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**MECHANICAL PLAN
BUILDING "D"
HINDU COMMUNITY and CULTURAL CENTER**
1200 ARROWHEAD AVE. LIVERMORE, CA 94551

DATE
10/28/11
SCALE:
AS NOTED
DRAWN BY:
PT
PROJECT:
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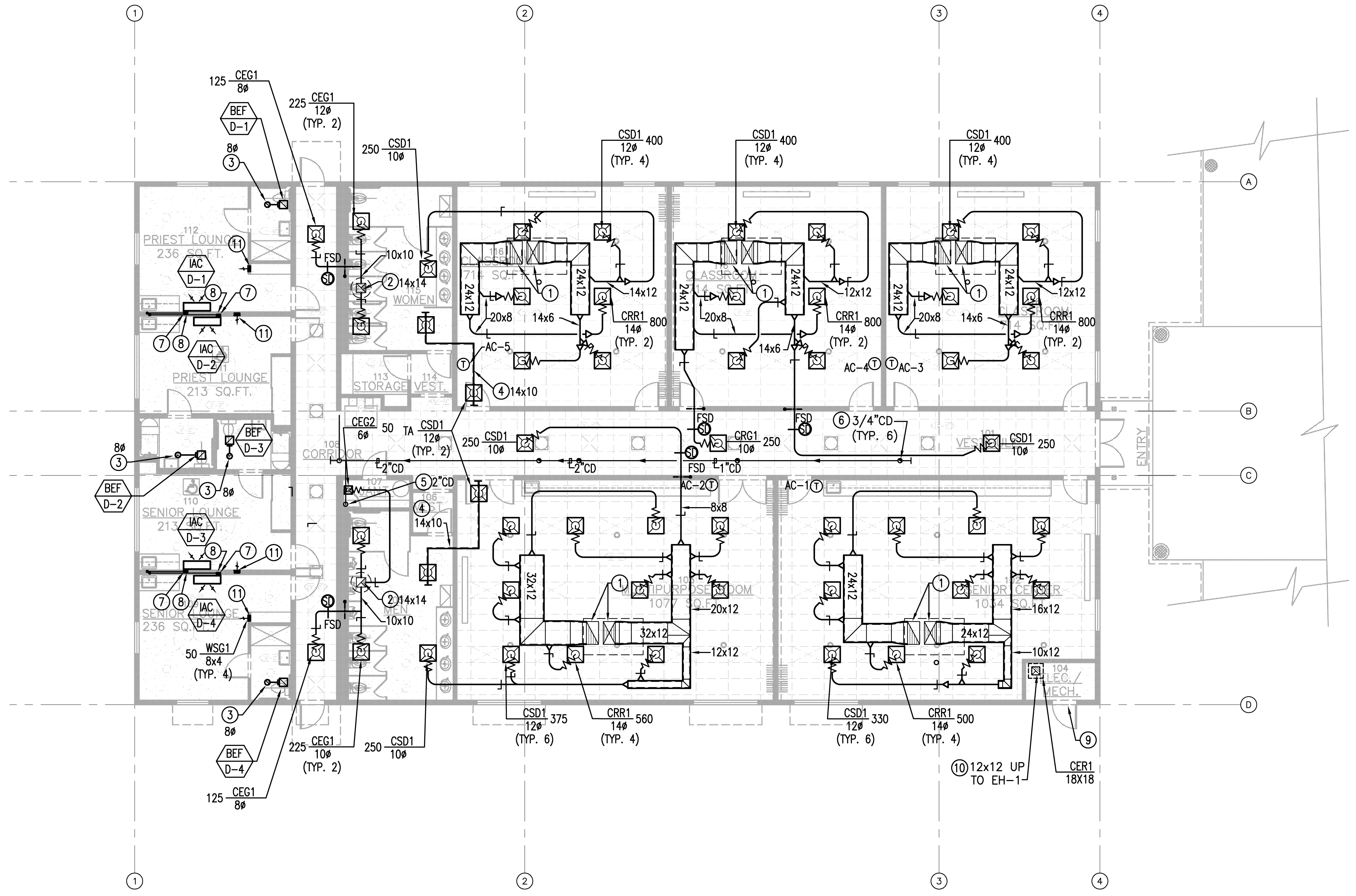
M-13.0

GENERAL NOTES

- A. ALL INSTALLATIONS SHALL COMPLY WITH THE CURRENT TENANT BUILDING STANDARDS AND ALL APPLICABLE CALIFORNIA AND LOCAL CODES.
- B. ALL NEW WORK SHALL COMPLY WITH CURRENT SMACNA DUCT CONSTRUCTION STANDARDS.
- C. PROVIDE VOLUME DAMPERS IN EACH BRANCH DUCTS FOR AIR BALANCING.
- D. PROVIDE TRANSFER AIR BOOT ABOVE CEILING AT ALL FULL-HEIGHT PARTITIONS.

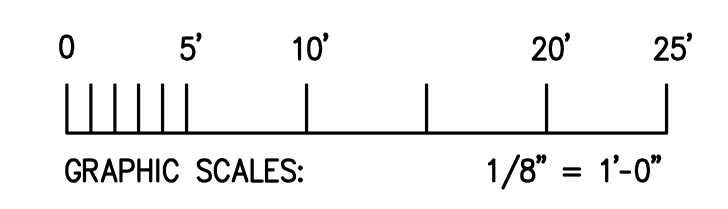
SHEET NOTES

- ① SUPPLY AND RETURN AIR DUCTS WITH ACOUSTICAL LINING FROM ROOFTOP AC UNIT IN THE ROOF. SEE ROOF PLANS FOR CONTINUATION.
- ② 14x14 EXHAUST AIR DUCT UP TO TOILET EXHAUST FANS IN THE ROOF. SEE ROOF PLANS FOR CONTINUATION.
- ③ 6ø EXHAUST DUCT UP TO GOOSENECK EXHAUST IN THE ROOF. (TYPICAL OF 4).
- ④ 14x10 TRANSFER AIR DUCT WITH ACOUSTICAL LINING. (TYPICAL OF 2).
- ⑤ TERMINATE 2" CONDENSATE DRAIN LINE OVER THE JANITOR'S SINK.
- ⑥ 3/4" CONDENSATE DRAIN LINE FROM ROOFTOP AC UNITS IN THE ROOF. TYPICAL OF 6. PROVIDE MINIMUM 1/8" PER FOOT SLOPE DOWN TO THE JANITOR'S SINK IN THE MOP ROOM.
- ⑦ 3/4" CONDENSATE DRAIN LINE FROM INDOOR AC UNIT. TERMINATE DRAIN LINE AT LAVATORY WASTE LINE IN THE ROOM WITH INDIRECT FITTING. INSTALL DRAIN LINE INSIDE WALL SPACE. (TYP.)
- ⑧ REFRIGERANT LINES & CONTROL WIRINGS TO OUTDOOR AIR-COOLED CONDENSING UNIT ON ROOF.(TYP.)
- ⑨ SIGHT-PROOF 18x12 EXTERIOR GRADE DOOR LOUVER WITH INSECT SCREEN.
- ⑩ 12x12 EXHAUST AIR DUCT UP TO EXHAUST HOOD (EH-1) ON THE ROOF FOR GRAVITY EXHAUST VENTILATION. PROVIDE 18X18 EXHAUST GRILLE.
- ⑪ 8x3 SUPPLY DUCT FROM ROOF. INSTALL WSR1 24" ABOVE FINISH FLOOR(TYP)



**BUILDING D - PHASE 2
MECHANICAL PLAN**

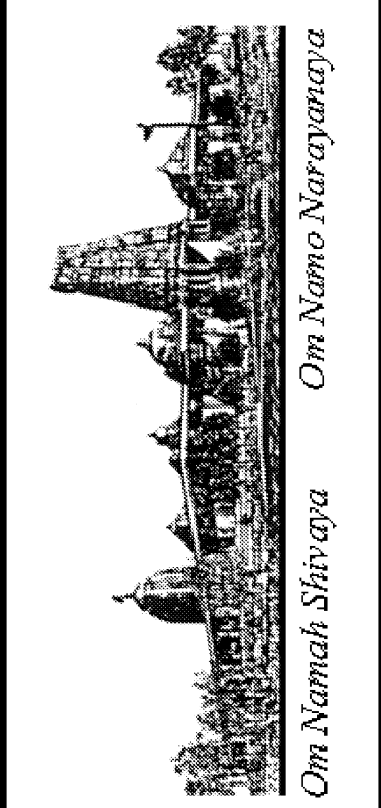
TOTAL 7800 SQ. FT.
SCALE: 1/8" = 1'-0"



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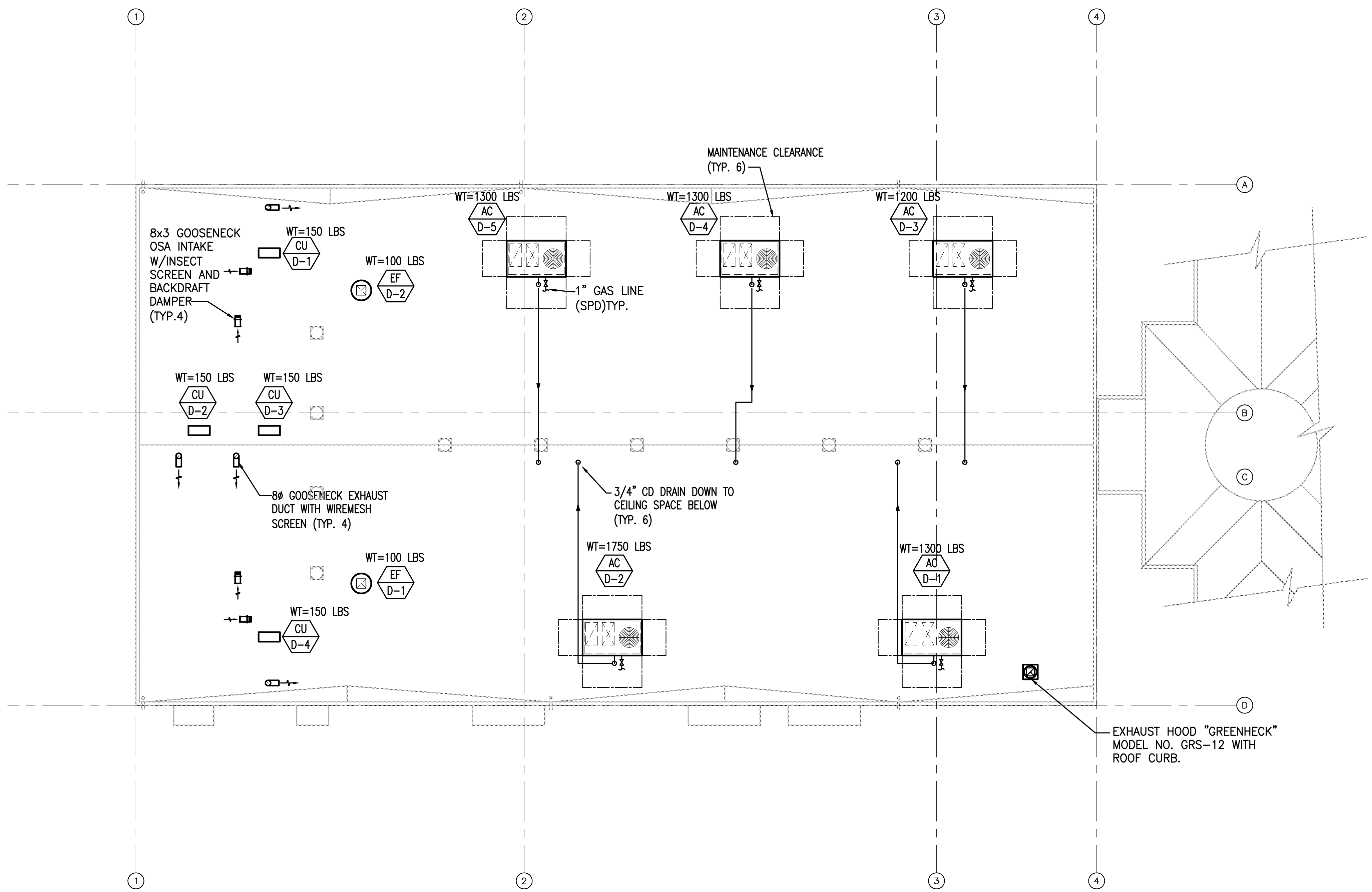
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MECHANICAL ROOF PLAN
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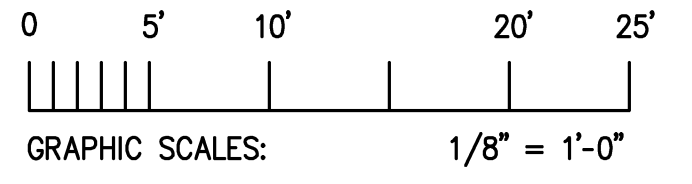
DATE: 10/28/11
 SCALE: AS NOTED
 DRAWN BY: PT
 PROJECT: ARROWHEAD

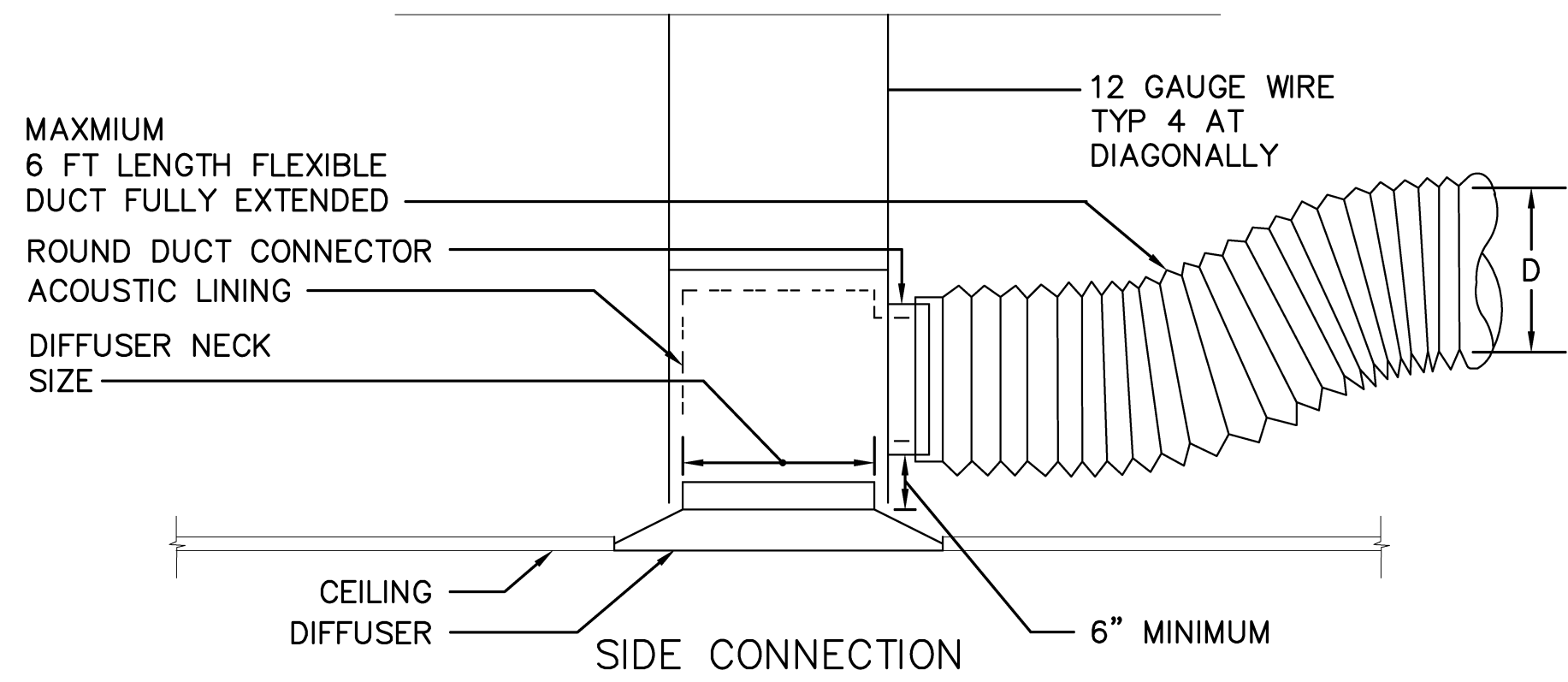
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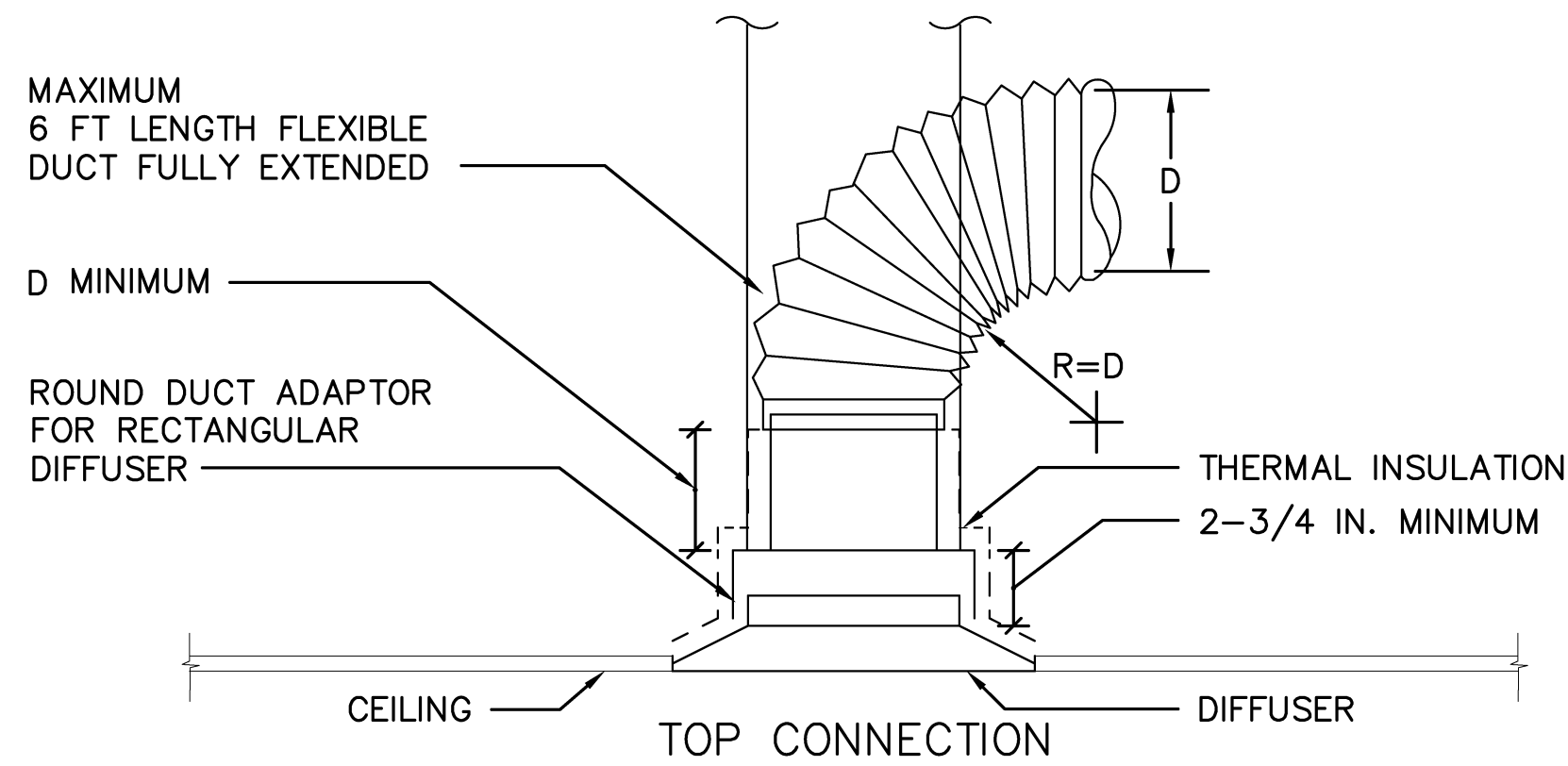
BUILDING D - ROOF PLAN
MECHANICAL PLAN

TOTAL 7800 SQ. FT.
 SCALE: 1/8" = 1'-0"

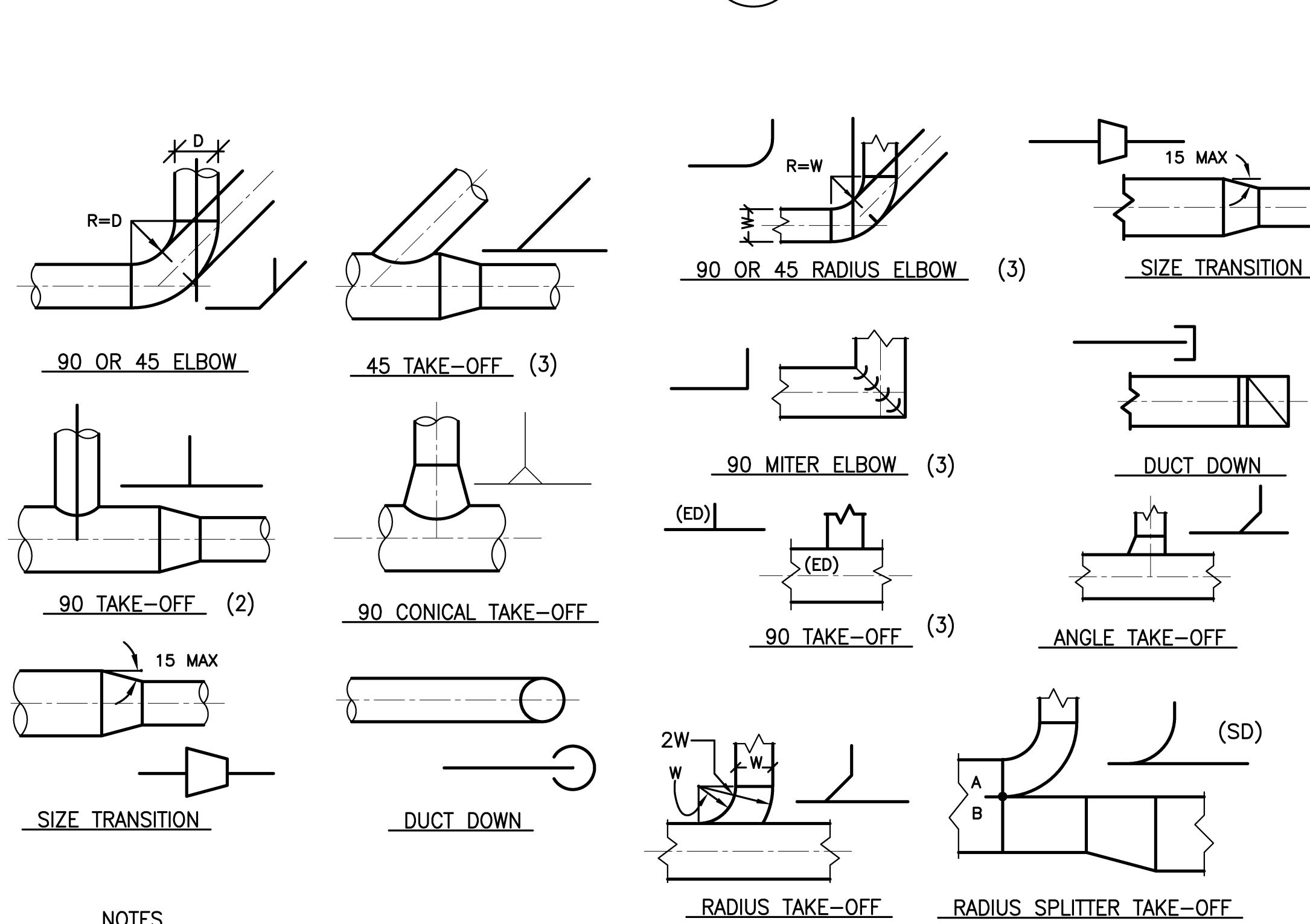




1 DIFFUSER CONNECTION DETAIL
SCALE: NOT TO SCALE



2 ROOFTOP AC UNIT GAS CONNECTION DETAIL
NOT TO SCALE
NOTE:
1. PROVIDE FLEXIBLE CONNECTORS ON UNITS W/ SPRING ISOLATORS.

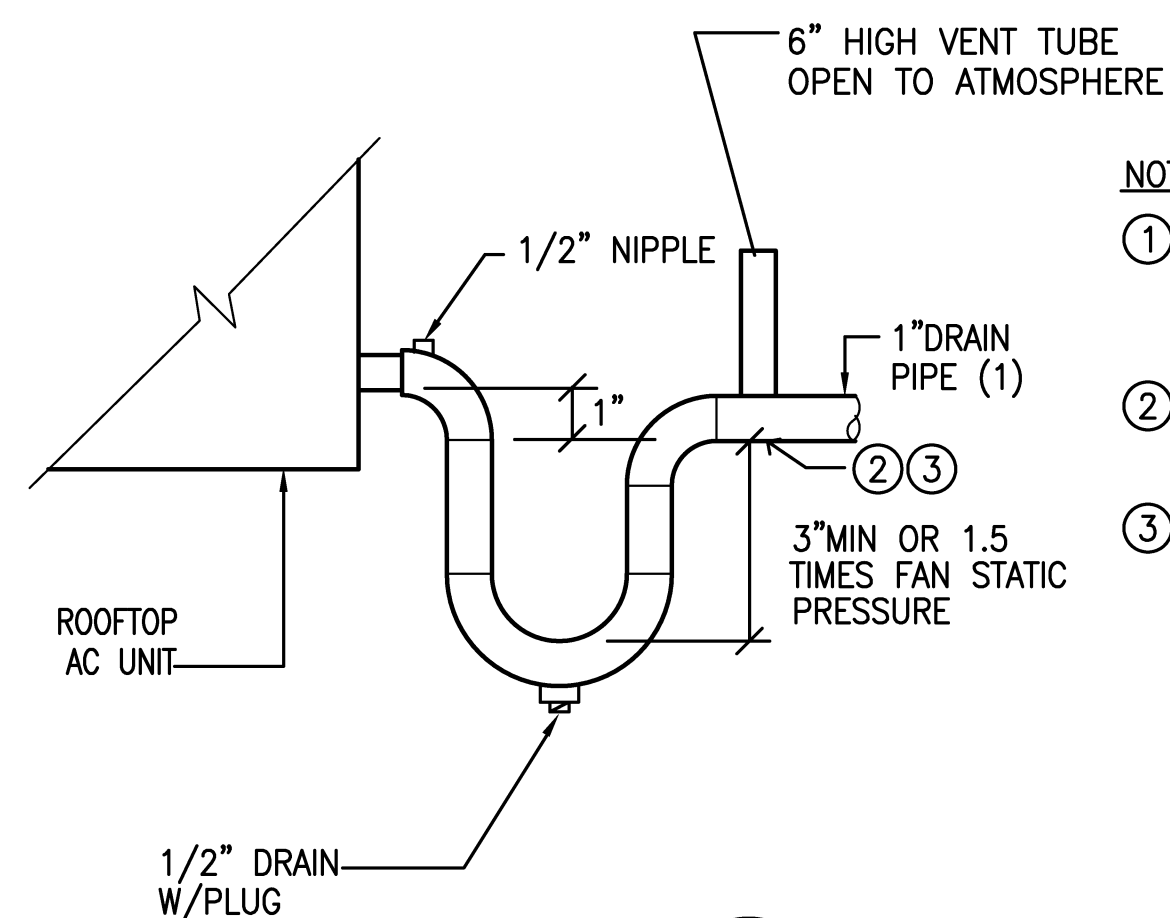


- NOTES**
- (1) SINGLE-LINE ILLUSTRATIONS ARE SYMBOLS USED ON DRAWINGS
 - (2) FOR LOW PRESSURE SYSTEM ONLY.
 - (3) PROVIDE ACOUSTICAL LINING WHERE REQUIRED. OR WHERE SHOWN ON PLANS.

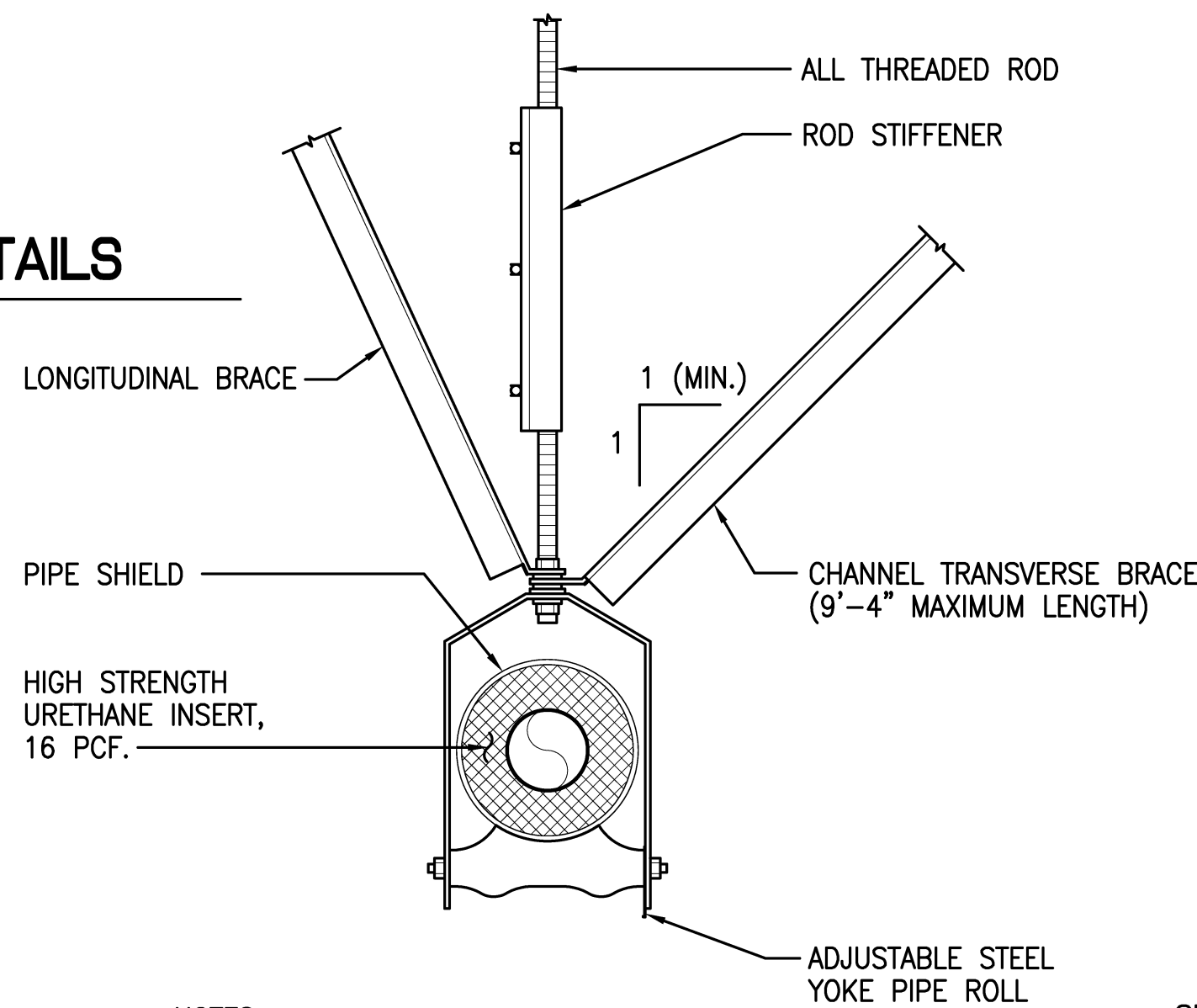
- NOTES**
- (1) SINGLE-LINE ILLUSTRATIONS ARE SYMBOLS USED ON DRAWINGS
 - (2) SIZE A & B DIMENSIONS IN PROPORTION TO AIR QUANTITIES IN EACH LEG SPLIT
 - (3) FOR LOW PRESSURE SYSTEM ONLY.
 - (4) PROVIDE ACOUSTICAL LINING WHERE REQUIRED. OR WHERE SHOWN ON PLANS.

3 RECTANGULAR DUCT DETAILS
SCALE: NOT TO SCALE

4 ROUND DUCT DETAILS
SCALE: NOT TO SCALE

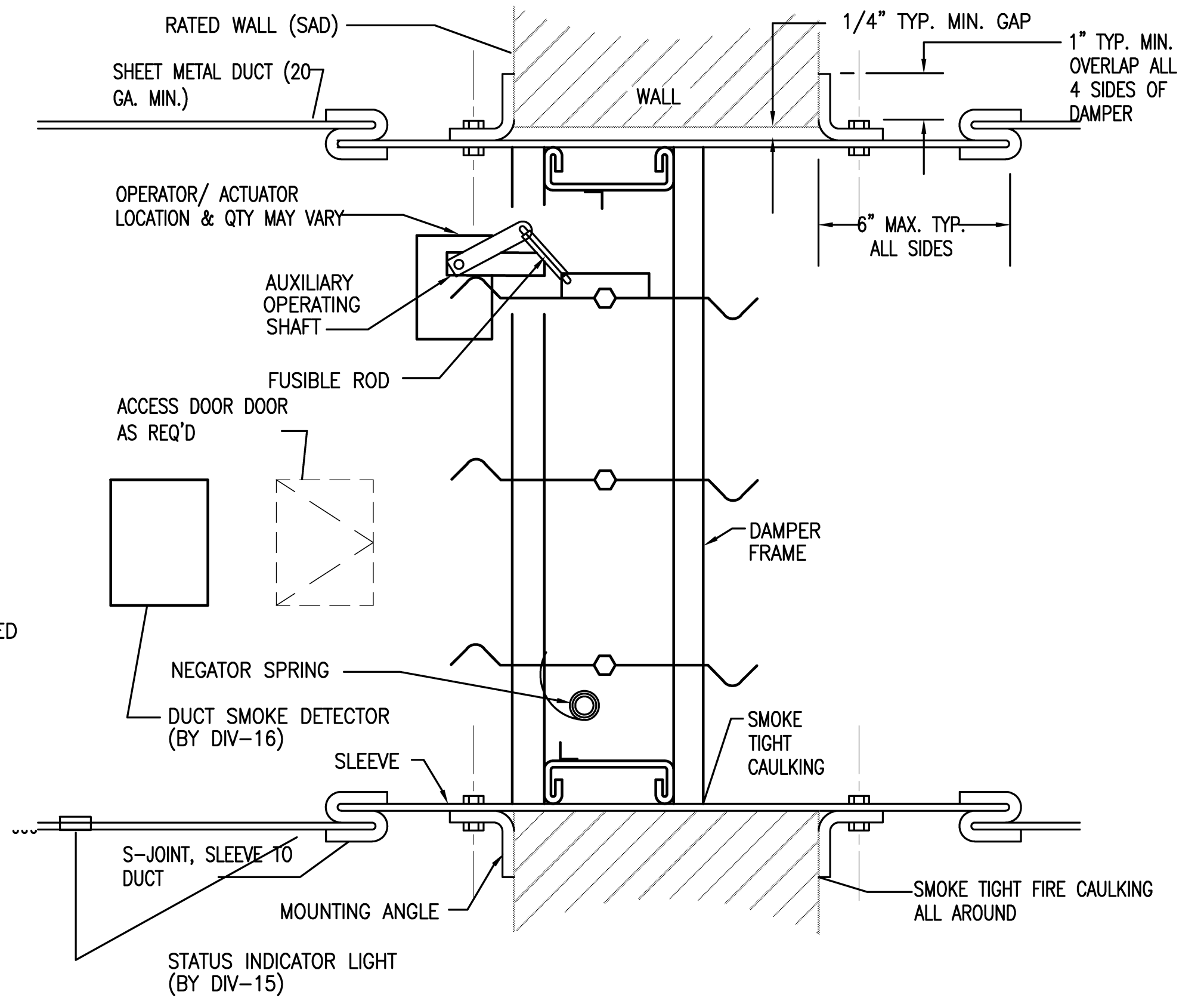


5 COOLING COIL CONDENSATE TRAP (DRAW - THROUGH COIL)
NOT TO SCALE



- NOTES:**
1. PROVIDE BRACING AS REQUIRED BY OSHPD REQUIREMENTS. PROVIDE B-LINE B3110 HANGER OR APPROVED EQUAL.
 2. PROVIDE 360° GALVANIZED PIPE SHIELD PER SPECIFICATION AT ALL HANGER SUPPORT.

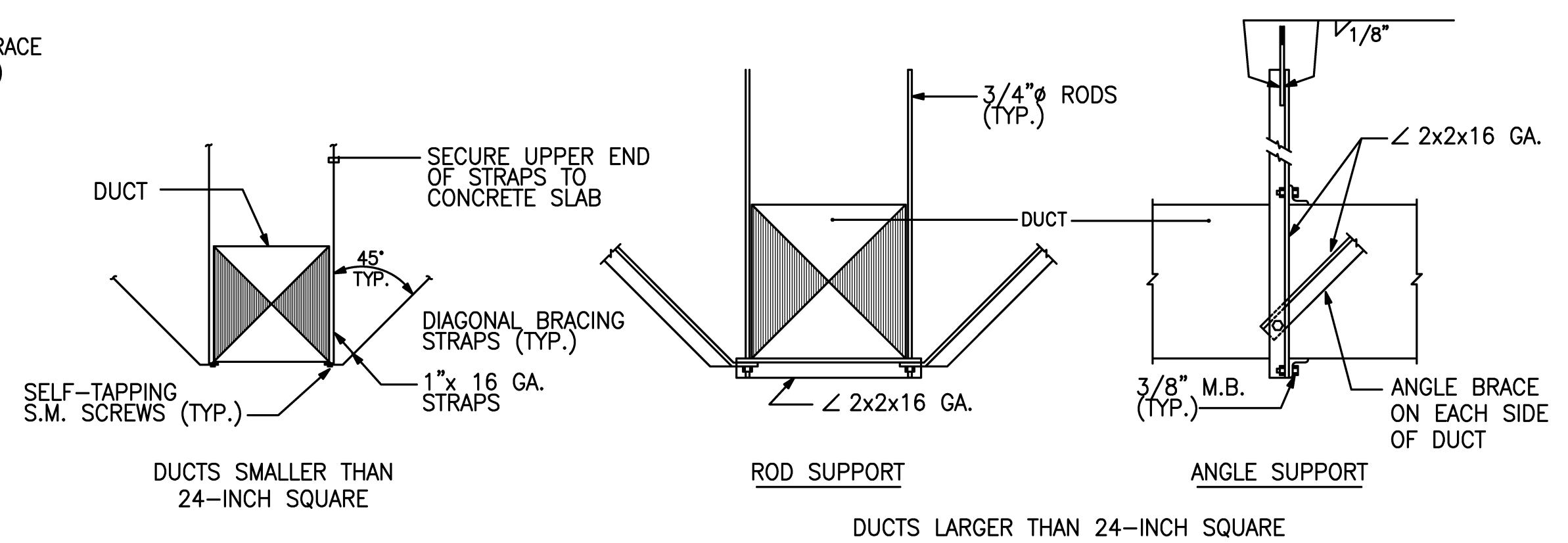
6 PIPE HANGER DETAIL
SCALE: NOT TO SCALE



FSD INSTALLATION & OPERATION NOTES:

1. ENTIRE ASSEMBLY SHALL BE UL LISTED AND FACTORY ASSEMBLED COMPLETE WITH DAMPER, MOTOR, HEAT SWITCH, POSITION SENSORS, INTEGRAL SLEEVE, ETC., ASSEMBLY SHALL BE FACTORY TESTED PRIOR TO SHIPMENT. DAMPER SHALL BE RUSKIN FSD 60 OR APPROVED EQUAL.
2. DAMPER SHALL BE POWER OPEN & NORMALLY CLOSED DAMPER, WHICH CLOSE UPON LOSS OF POWER.
3. MOUNT MOTOR OPERATOR ON EXTERIOR OF DUCTWORK & READILY ACCESSIBLE THROUGH THE CEILING ACCESS PANEL.
4. DAMPER SHALL BE FURNISHED & INSTALLED BY DIVISION-15, MONITORED BY DIVISION-15. DAMPER SHALL BE ACTIVATED BY THE DUCT SMOKE DETECTORS LOCATED WITHIN 5 FEET DISTANCE FROM THE FSD. COORDINATE WITH DIVISION-16 FOR COMPATIBILITY WITH THE BUILDING FIRE ALARM SYSTEM.
5. FURNISH ACCESS DOORS OF ADEQUATE SIZE FOR DAMPER MAINTENANCE.
6. DAMPER SHALL BE CALIF. STATE FIRE MARSHAL APPROVED AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION GUIDELINES, WHICH SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY. DETAILS SHOWN ARE FOR REFERENCE ONLY.
7. DUCT SMOKE DETECTOR SHALL BE FURNISHED BY FIRE ALARM (DIVISION-16). INSTALLED BY DIVISION-15.

8 COMBINATION FIRE & SMOKE DAMPER (FSD) DETAIL
SCALE: NOT TO SCALE



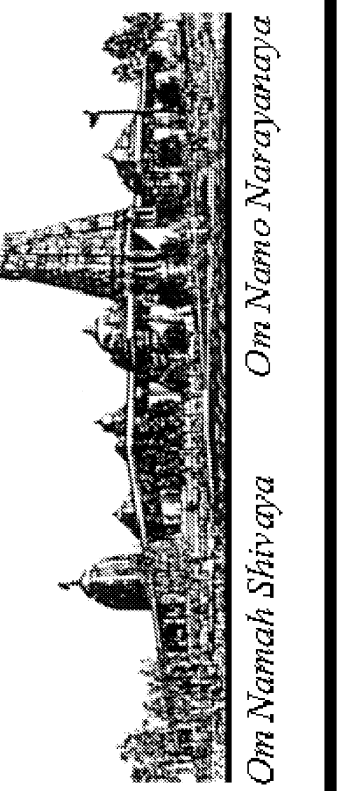
7 DUCT HANGER AND BRACING DETAIL
SCALE: NOT TO SCALE

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