

MULTI ZONE HEAT PUMP SCHEDULE

INDOOR UNIT											CONDENSING UNIT											REMARKS					
NO.	MAKE & MODEL	LOCATION	COOLING CAPACITY (BTU/HR)	HEATING CAPACITY (BTU/HR)	CFM	ESP	V	φ	RATED AMPS (A)	HZ	WT (LBS.)	NO.	MAKE & MODEL	COOLING CAPACITY (BTU/HR)	HEATING CAPACITY (BTU/HR)	SEER	HSPF	V	φ	HZ	COMPRESSOR AMPS (A)		FAN MOTOR AMPS (A)	MCA (A)	MOP (A)	WT (LBS.)	
FC 1	LG ARNU483BRA4	FOYER/ MUD ROOM/OFFICE	48,100	51,200	1582	0.55	208-230	1	3.5	60	115	HP 1	LG ARUM192BTE5	192,000	216,000	-	-	208-230	3	60	COMP (A) 23.3 COMP (B) 20.8	8.0	57.9	80	660	W/ PROGRAMMABLE THERMOSTAT, W/ SELF DIAGNOSIS SETTING W/ MERV-8 FILTER, W/ CONDENSATE OVERFLOW SWITCH TO SHUT OFF FAN COIL UNIT.	
FC 2	LG ARNU303NJA4	MASTER/ LIVING	30,000	34,000	880	0.5	208-230	1	1.12	60	120																
FC 3	LG ARNU363NJA4	KITCHEN	36,000	40,000	990	0.5	208-230	1	1.12	60	121																
FC 4	LG ARNU483BRA4	LIVING/ FAMILY	48,100	51,200	1582	0.55	208-230	1	3.5	60	115																
FC 5	LG ARNU283BGA45	BASEMENT	28,000	31,500	915	0.39	208-230	1	2.65	60	85																

* REFRIGERATION PIPE SIZES SHALL BE COORDINATED WITH MANUFACTURE BASED ON EXACT REFRIGERATION PIPE LENGTHS AND ELBOWS IN THE SYSTEM.
 ** VERIFY EXACT AVAILABLE VOLTAGE & PHASE, W/ ELECTRICAL ENG. PRIOR TO ORDERING THE AC UNITS, ELECTRICIAN TO VERIFY WITH MANUFACTURER FOR FUSE SIZE & FEEDER SIZE.

EXHAUST FANS SCHEDULE

SYMBOL	MAKE	MODEL	CFM	S.P.	ELECTRICAL			WT.(LBS)	SERVICE	REMARKS	
					POWER	V	φ				
EF 1	BROAN	XB110	110	0.25	0.3 AMPS	120	1	60	20	POWDER ROOM	ENERGY STAR COMPLIANT EXHAUST FAN W/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, RUN CONTINUOUS TO MEET ASHRAE 62.2 COMPLIANCE.
EF 2	BROAN	XB110H	110	0.25"	0.3 AMPS	120	1	60	20	BATHROOM	ENERGY STAR COMPLIANT EXHAUST FAN, W/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, CONTROLLED BY LIGHT SWITCH AND BUILT-IN HUMIDISTAT.
EF 3	GREENHECK	BCF-106	200	0.25"	1/10 HP	120	1	60	80	MASTER BATH	W/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, CONTROLLED BY LIGHT SWITCH AND HUMIDISTAT.
EF 4	BROAN	QTXE150	150	0.25"	0.5 AMPS	120	1	60	20	LAUNDRY	W/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, CONTROLLED BY LIGHT SWITCH.
EF 5	BROAN	XB110	110	0.25"	0.3 AMPS	120	1	60	20	TOILET ROOM	W/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, CONTROLLED BY LIGHT SWITCH.
EF 6	GREENHECK	BCF-106	300	0.25"	1/10 HP	120	1	60	80	GENERAL EXHAUST	W/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, CONTROLLED BY LIGHT SWITCH.

WHOLE-BUILDING VENTILATION REQUIREMENTS (FROM ASHRAE 62.2)
 AT LEAST ONE MECHANICAL VENTILATION SYSTEM IN THE BUILDING MUST BE DESIGNATED FOR USE IN COMPLIANCE WITH THE WHOLE-BUILDING VENTILATION REQUIREMENT. ALTERNATIVELY, THE SUM OF THE RATED AIRFLOWS FROM MULTIPLE FANS CAN BE UTILIZED TO MEET THE REQUIRED WHOLE-BUILDING VENTILATION AIRFLOW. THE SYSTEM(S) MUST DELIVER CONTINUOUS VENTILATION AIRFLOW AT A RATE GREATER THAN OR EQUAL TO THE RATE SPECIFIED IN EQUATION 4.1 AND FAN SONE RATINGS MUST NOT EXCEED 1.0. FOR DWELLING OCCUPANT DENSITIES KNOWN TO BE GREATER THAN (Nbr + 1), THE RATE SHALL BE INCREASED BY 7.5 CFM FOR EACH ADDITIONAL PERSON.

Where:
 A_{adj} = conditioned floor area, ft²
 N_{br} = number of bedrooms; not to be less than one
 Q_{req} = ventilation air requirement = fan flow rate, (cfm)

Eq 4.1a Calculation:
 A_{adj} = 4,885
 N_{br} = 5
 Q_{req} = 192

(Eq 4.1a) Q_{req} = 0.03A_{adj} + 7.5(N_{br} + 1)

H.V.A.C. LEGEND

SYMBOL	ABBREV.	DESCRIPTION
		DUCT RISER
		DUCT DROP
		DUCT SECTION (SUPPLY)
		DUCT SECTION (RETURN)
		DUCT SECTION (EXHAUST)
	C.D.	CEILING DIFFUSER
	R.A.R.	RETURN AIR REGISTER
	E.G.	EXHAUST AIR GRILLE
	S.W.S.	SIDE WALL SUPPLY
	S.W.R.	SIDE WALL RETURN
	S.W.E.	SIDE WALL EXHAUST
	R.G.	RELIEF GRILLE
	M.V.D.	MANUAL VOLUME DAMPER
	B.D.D.	BACK DRAFT DAMPER
	A.V.D.	AUTOMATIC VOLUME DAMPER
	D.L.	DOOR LOUVER
	STAT	ROOM THERMOSTAT
	D.H.	DUCT HEATER
	U.C.	UNDER-CUT
	C.W.S.	COND. WATER SUPPLY
	C.W.R.	COND. WATER RETURN
	H.W.S.	HOT WATER SUPPLY
	H.W.R.	HOT WATER RETURN
	CH.W.S.	CHILLED WATER SUPPLY
	CH.W.R.	CHILLED WATER RETURN
		DIRECTION OF FLOW
	G.V.	GATE VALVE
	B.V.	BUTTERFLY VALVE
	RED.	REDUCER
	STR.	STRAINER
	U	UNION
	P.G.	PRESSURE GAUGE
	A.D.	ACCESS DOOR
	A.P.	ACCESS PANEL
	S.A.	SUPPLY AIR
	R.A.	RETURN AIR
	E.A.	EXHAUST AIR
	C.A.	COMBUSTION AIR
	O.S.A.	OUTSIDE AIR
	DN.	DOWN
	CLG.	CEILING
	S.W.S.	SIDEWALL SUPPLY
	S.W.R.	SIDEWALL RETURN
	N.C.	NORMALLY CLOSED
	N.O.	NORMALLY OPEN
	N.I.C.	NOT IN CONTRACT
	P.O.C.	POINT OF CONNECTION
	G.C.	GENERAL CONTRACTOR
	P.C.	PLUMBING CONTRACTOR
	E.C.	ELECTRICAL CONTRACTOR
	U.T.R.	UP THRU ROOF
		FLEX. CONN. IN DUCT
		TURNING VANES
		EXTRACTORS
		FURN. & INST. BY ELEC.
		FURN. & INST. BY MECH.
		EXPANSION VALVE
	C.A.	CONTROL AIR
		DUCT LINING
	M.C.A.	MAX. CIRCUIT AMPACITY
	T.S.P.	TOTAL STATIC PRESSURE
	F.L.A.	FULL LOAD AMP
	B.D.D.	BACK DRAFT DAMPER
	M.BH	THOUSAND BTUH
	E.R.	EXHAUST REGISTER
	SFD	SMOKE AND FIRE DAMPER
	SD	SMOKE DUCT DETECTOR
		POINT OF CONNECTION
		THERMOSTAT SENSOR
	FSD	FLOOR SUPPLY DIFFUSER
	FRD	FLOOR RETURN DIFFUSER
	LSD	LINEAR SLOT SUPPLY DIFFUSER
	LRD	LINEAR SLOT RETURN DIFFUSER
	O.B.D.	OPPOSED BLADE DAMPER

PLAN REVIEW ACCEPTANCE
 FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

BUILDING STRUCTURAL
 MECHANICAL PLUMBING
 ELECTRICAL ENERGY
 ACCESSIBILITY FIRE

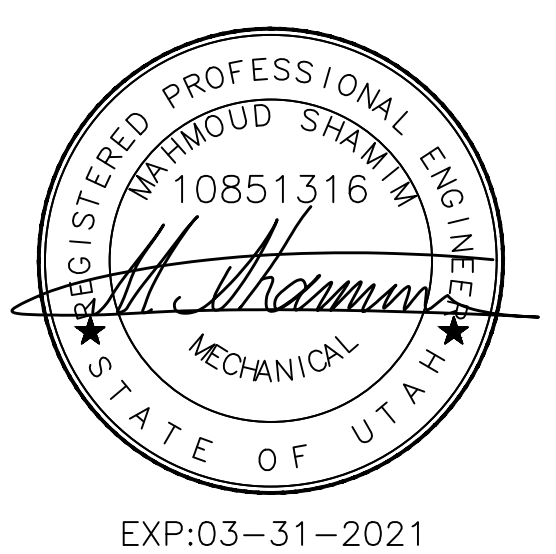
PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS.

BY: MEM DATE: 03/08/19
 WEST COAST CODE CONSULTANTS, INC.

POWDER MOUNTAIN HOUSE

OWNER: **TOM BUTTGENBACH**
 8645 EASET COPPER CREST
 EDEN, UT 84310

ARCHITECT: TOM WISCOMBE ARCHITECTURE 2454 WILSHIRE BLVD., SUITE 48 LOS ANGELES, CA 90007 (213) 674-2238 WWW.TOMWISCOMBE.COM	STRUCTURAL ENGINEER: NOUS 527 W 7TH STREET LOS ANGELES, CA 90014 (213) 627-6887 WWW.NOUSENGINEERING.COM	CIVIL ENGINEER: TALISMAN 527 W 7TH STREET MURRAY, UT 84107 (801) 745-1300 WWW.TALISMANCIVIL.COM	MECHANICAL / PLUMBING: SHAMIM 5520 CORBIN AVE., SUITE 300 IRVING, CA 91356 (916) 786-7894 WWW.SHAMIMENGINEERING.COM	ELECTRICAL: ABRARI ENGINEERING CLENDALE, CA (714) 456-7894 WWW.ABRARI.COM	NGBS CONSULTING: ARGENTO/GRAHAM 811 WEST 7TH STREET, 10TH FLOOR LOS ANGELES, CA 90017 (323) 536-2578 WWW.ARGENTOGRAHAM.COM	GEOTECHNICAL: IGES 2702 SOUTH 1030 WEST SUITE 10 SALT LAKE CITY, UT 84020 (801) 270-9400 WWW.IGESINC.COM	LANDSCAPE ARCHITECT: LDG 328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1255	LIGHTING DESIGNER: KGM 328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1255 WWW.KGMLIGHTING.COM
----------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------



SCHEDULES, NOTES, & LEGEND

REVISIONS:	BY:	DATE:	DATE:
			05/05/2018
			SCALE: 1/4" = 1'-0"
			DRAWN: K.S.
			SHEET: M1.0

GENERAL NOTES:

- 1. CODES, RULES AND REGULATIONS- DESIGN OF SYSTEM
A) ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES AND CODES.
B) WHEN THE DRAWINGS CALL FOR MATERIALS OR CONSTRUCTION OF A BETTER QUALITY OR LARGER SIZES THAN REQUIRED BY THE ABOVE MENTIONED CODES AND RULES, WORK SHALL BE AS SPECIFIED OR SHOWN RATHER THAN AS REQUIRED BY CODE. ALL ITEMS OR FEATURES OF THE MECHANICAL SYSTEMS REQUIRED BY CODE SHALL BE INCLUDED, EVEN THOUGH NOT SPECIFIED HEREIN.
C) INSTALLATION OF THE SYSTEMS SHALL BE IN ACCORDANCE WITH THE ABOVE MENTIONED CODES AND REGULATIONS AND ALSO SHALL CONFORM TO GOOD, ACCEPTED MECHANICAL PRACTICES.
2. FLEXIBLE CONNECTIONS AT SUPPLY AND RETURN AIR OPENINGS OF ALL AIR CONDITIONING UNITS.
3. OBTAIN APPROVAL FROM ARCHITECT FOR ALL FLOOR REGISTERS AND SIDE WALL REGISTERS PRIOR TO PURCHASE.
4. CEILING DIFFUSERS TO BE EQUAL TO TITUS SERIES CC WITH O.B.D. FLUSH MOUNTED FOR SUSPENDED T-BAR CEILING AND SURFACE MOUNTED FOR GYPSUM BOARD CEILING, SEE PLAN FOR LINEAR DIFFUSERS. LINEAR DIFFUSERS SHALL BE CARNES
5. COORDINATE EXACT LOCATION OF ALL AIR OUTLETS AND INLETS
6. SIDEWALL SUPPLY AND RETURN REGISTERS TO BE EQUAL TO TITUS LINEAR BAR.
7. COORDINATE EXACT LOCATION OF ALL AIR OUTLETS AND INLETS (DIFFUSERS AND REGISTERS) WITH APPROPRIATE ARCHITECTURAL PLANS (REFLECTED CEILING, ELEVATIONS, ETC). COLOR AS DIRECTED BY ARCHITECT.

- 8. PROVIDE DUCT LINING TO SUPPLY DUCT OF EACH AC UNIT FOR MINIMUM OF 10 FT. DUCT LINING TO BE EQUAL TO JOINS-MANVILLE, 1" THICK X 1-1/2 PCF DENSITY DUCT LINER. DUCTWORK TO BE INCREASED IN EACH DIMENSION TO INCORPORATE THICKNESS OF LINING.
9. DUCT INSULATION TO CONFORM TO CALIFORNIA ENERGY CONSERVATION STANDARDS (TITLE 24).
10. WIRING DIAGRAM IS INTENDED TO INDICATE SEQUENCE OF CONTROL AND DOES NOT NECESSARILY SHOW ALL CONNECTIONS REQUIRED BY LOCAL CODES.
11. AUTOMATIC TEMPERATURE CONTROL DEVICE FOR REGULATION OF SPACE TEMPERATURE SHALL BE CAPABLE OF BEING SET FROM 55 TO 85°F, AND HAVE THE ABILITY TO OPERATE THE HEATING AND COOLING IN SEQUENCE. CONTROL SHALL BE ADJUSTABLE TO PROVIDE A RANGE OF UP TO 10°F BETWEEN FULL HEATING AND FULL COOLING AND HAVE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70°F, AND COOLING AT A TEMPERATURE NOT LESS THAN 78°F.
12. ALL EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES.
13. APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE FASTENED IN PLACE.
14. PROVIDE SEISMIC BRACING FOR ALL MECHANICAL EQUIPMENT STRUCTURE MOUNTED, 400 LBS. OR HEAVIER.
15. A MAINTENANCE LABEL SHALL BE AFFIXED TO MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNERS USE.
16. PROVIDE VOLUME DAMPER FOR ALL DUCT WORK BRANCHES.
17. PROVIDE CEILING & ROOF ACCESS FOR ALL CEILING & ROOF MOUNTED EQUIPMENT & VOLUME DAMPERS.

- 18. TRANSVERSE JOINTS FOR ALL AIR SUPPLY DUCTS INSTALLED WHERE AIR LEAKAGE WOULD BE NON-BENEFICIAL TO THE OCCUPIED AREA, TEMPERATURE REQUIREMENTS SHALL BE SEAL TO CITY OF LOS ANGELES APPROVED MASTIC OR TAPE.
19. PROVIDE GALVANIZED SHEET METAL DUCTS FABRICATED AND INSTALLED TO UMC 2014 EDITION.
20. REFRIGERANT PIPING TO BE TYPE "L" COPPER, REFRIGERATION GRADE. FITTINGS TO BE WROUGHT COPPER WITH JOINTS MADE UP WITH "SOLDFLO" OR EQUAL HARD SOLDER. ALL JOINTS TO BE ROUGHLY CLEANED PRIOR TO SOLDERING.
21. REFRIGERANT SUCTION
A) INSULATE WITH PERFORMED FIBERGLASS SNAP-ON INSULATION SUCH AS 25 ASL/SSL.
B) FOR PIPES UP TO 1" DIAMETER, PROVIDE 1" THICK INSULATION.
C) FOR PIPES 1" DIAMETER AND LARGER, PROVIDE 1-1/2" THICK INSULATION.
D) WHERE INSULATION IS EXPOSED TO WEATHER, PROTECT WITH WATER PROOF CORRUGATED ALUMINUM TO BE INTACT WITH NO GAPS OR TEARS.
E) INSTALL INSULATION IN ACCORDANCE WITH INSULATION MANUFACTURER'S RECOMMENDATION SEAL TRANSMISSION WITH SSL BUTT STRIPS, VAPORSEAL COVER.
22. MAINTAIN 10" SEPARATION BETWEEN AIR INTAKE TO THE BUILDING AND ANY EXHAUST OR VENT EXCEEDING THE OSA. IF REQUIRED.
23. PROVIDE FIRE DAMPER OR SMOKE FIRE DAMPER WHERE DUCT PENETRATES FIRE RATED CEILING OR WALL IF APPLICABLE.

Table with 2 columns: CFM, DUCT SIZE. Lists CFM ranges and corresponding duct sizes (e.g., 0-110 to 6", 110-240 to 8", etc.).

- 24. RECTANGULAR DUCTS CAN BE SUBSTITUTED WITH EQUIVALENT ROUND DUCTS WHERE APPLICABLE PER FOLLOWING SCHEDULE.
25. THE PROJECT SHALL BE AIR BALANCED BY AN AIR BALANCE CONTRACTOR AND A COPY OF THE FINAL REPORT SHALL BE PRESENTED TO THE TENANT AND OWNER.
26. THE MECHANICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND FEES.
27. MECHANICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND VERIFY EXISTING LOCATION OF ALL EQUIPMENT AND THEIR WORKING CONDITION PRIOR TO WORK. ANY DISCREPANCY SHALL BE REPORTED TO ARCHITECT.
28. ENERGY CONSERVATION STANDARDS FOR NEW RESIDENTIAL BUILDINGS HAVE BEEN REVIEWED AND DESIGNED SUBSTANTIALLY CONFORMS TO THEM.
29. ALL DUCT SIZES SHOWN ON THE FLOOR PLANS ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL ENLARGE THE DUCT IN ORDER TO ACCOMMODATE LINING INSIDE OF DUCT IF REQUIRED.
30. SUCTION AND LIQUID LINE SIZES INDICATED ON THE SCHEDULE ABOVE ARE BASED ON 25' OF RUN, INCREASE PIPE SIZE FOR RUNS MORE THAN 25' AND CONSULT WITH MANUFACTURER FOR SIZING.

- 31. PRIOR TO ANY DUCT OR PIPING FABRICATION, EQUIPMENT INSTALLATION OR DUCT AND PIPE INSTALLATION, MECHANICAL CONTRACTOR SHALL COORDINATION WITH ALL OTHER TRADES AND CEILING CLEARANCES AND PROVIDE COMPLETE SHOP DRAWING. OBTAIN APPROVAL FOR SHOP DRAWING FROM ARCHITECT/ENGINEER. DUCT MAY BE RESIZED TO EQUIPMENT SIZES IN ORDER TO ACCOMMODATE AVAILABLE SPACE, VERIFY WITH ENGINEER. NO EXTRA COST IS ALLOWABLE FOR LACK OF COORDINATION AFTER SHOP DRAWINGS ARE SUBMITTED.
32. SITE INSPECTION: CONTRACTORS SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF HIS BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND EXACT NATURE OF THE WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY SUBMISSION WHICH RESULTS FROM A FAILURE TO THOROUGHLY MAKE THE EXAMINATION.
33. IN BATHROOMS CONTAINING BATHTUBS, SHOWERS, SPAS AND SIMILAR BATHING, FIXTURES SHALL BE MECHANICALLY VENTILATED IN ACCORDANCE WITH CALIFORNIA MECHANICAL CODE 2007 CBC 1203.4.2.1.
34. TOILET EXHAUST DUCTS SHALL BE MADE OF METAL.
35. ALL DUCTWORK IN GARAGE EXHAUST SYSTEM & MAKE UP SHALL BE GALVANIZED SHEET METAL.
36. FLEXIBLE DUCT MAY BE USED FOR THE RESIDENTIAL UNITS WITH NO KINK AND BEND. ALL THE TURNS AND 90° ELBOWS SHALL BE SHEET METAL. FLEXIBLE DUCT MAY BE USED FOR STRAIGHT RUNS ONLY.
37. FOR NON-RESIDENTIAL AREAS ALL EXHAUST DUCTS AND OUTSIDE AIR SHALL BE SHEET METAL. THE STRAIGHT SUPPLY & RETURN RUNS MAY BE FLEXIBLE IF THEY ARE NOT EXPOSED. VERIFY WITH ARCHITECT FOR AVAILABLE CEILING HEIGHT.

DRYER NOTES

- 1- THE MAXIMUM LENGTH OF 6" DUCT SHALL NOT EXCEED 44' (FT.). DEDUCT 4' (FT.) FOR EACH 90° ELBOW.
2- PROVIDE CLEANOUTS THAT ARE ACCESSIBLE AND ARE SPACED NOT MORE THAN 20' (FT.) APART, THEY SHALL ALSO BE LOCATED AT BASE OF EACH VERTICAL RISER.
3- THE TERMINATION OF THE DUCT SHALL NOT BE RESTRICTED BY ANY LOUVERS OR SCREEN SAND THE FREE AREA OF THE DUCT SHALL NOT BE REDUCED.
4- THE DUCT SYSTEM DESIGN SHALL BE SUCH THAT THE SCREWS OR OTHER FASTENERS WILL NOT OBSTRUCT THE FLOW THROUGH THE DUCT SYSTEM.
5- THE LAP JOINTS ARE TO BE IN THE DIRECTION OF THE AIR FLOW.
6- DUCTS INSTALLED WITHIN A WALL SHALL NOT BE INSTALLED WHERE THE FREE AREA OF THE DUCT WILL BE REDUCED IN AREA.
7- DUCT SHALL HAVE BACK DRAFT DAMPER, EXHAUST DUCT LIMITED TO 14'-0" WITH 2 ELBOWS. (UMC 504.3)

DUCT SUPPORT table with columns for A. VERTICAL DUCTS and B. HORIZONTAL DUCTS. Includes sub-tables for MAXIMUM SIZE OF RECTANGULAR DUCT and HORIZONTAL SUPPORT ANGLE.

RESIDENTIAL DUCT SIZING table with columns for AIR VOLUME CFM, DUCT HEIGHT INCHES (4", 6", 8", 10", 12"), and EQUIVALENT ROUND DUCT. Includes notes on following sizes and rectangular and round duct.

CONSTRUCTION DETAILS FOR ROUND AND FLAT-OVAL DUCTS table with columns for DUCT DIAMETER, ALUMINUM B. & S. GAGE, STEEL THICKNESS, SPIRAL SEAM, WELDED FITTINGS, and GIRTH JOINTS.

SIDEWALL DIFFUSERS and SUPPLY DIFFUSER & CEILING RETURN CFM TABLE. Includes columns for SIZE IN., QUILET VELOCITY, THROW FEET, CFM, and CEILING SUPPLY/DIFFUSER/RETURN.

LINEAR SLOT DIFFUSER SCHEDULE (SUPPLY) table with columns for MARK, MANUFACTURER, MODEL, FACE SIZE, NUMBER OF SLOTS, CFM/FT., TOTAL CFM, PLENUM MODEL, NC (NOISE CRITERIA), and NOTES.

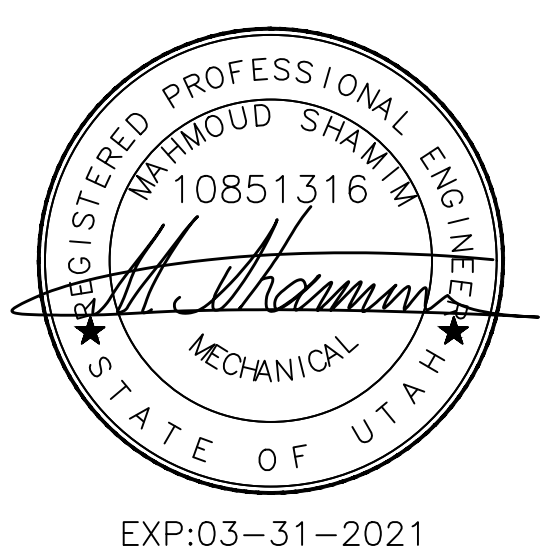
LINEAR REGISTER SCHEDULE (RETURN) table with columns for MARK, MANUFACTURER, MODEL, FACE SIZE, NUMBER OF SLOTS, CFM/FT., TOTAL CFM, PLENUM MODEL, NC (NOISE CRITERIA), and NOTES.

LINEAR REGISTER SCHEDULE (EXHAUST) table with columns for MARK, MANUFACTURER, MODEL, FACE SIZE, NUMBER OF SLOTS, CFM/FT., TOTAL CFM, PLENUM MODEL, NC (NOISE CRITERIA), and NOTES.

FLOOR LINEAR BAR REGISTER SCHEDULE table with columns for MARK, MANUFACTURER, MODEL, TYPE, SLOT #, FACE SIZE, CFM/FT., PLENUM MODEL, and NOTES.

PLAN REVIEW ACCEPTANCE stamp with checkboxes for Building, Mechanical, Electrical, Plumbing, Energy, Accessibility, and Fire. Includes MEM logo and date 03/08/19.

POWDER MOUNTAIN HOUSE logo and contact information for various professionals: ARCHITECT (Tom Wiscombe Architecture), STRUCTURAL ENGINEER (N.O.U.S.), CIVIL ENGINEER (TALISMAN), MECHANICAL/PLUMBING (SHAMIM), ELECTRICAL (ABRARI ENGINEERING), NGBS CONSULTING (ARGENTO/GRAHAM), GEOTECHNICAL (IGES), LANDSCAPE ARCHITECT (LDG), LIGHTING DESIGNER (KGM).

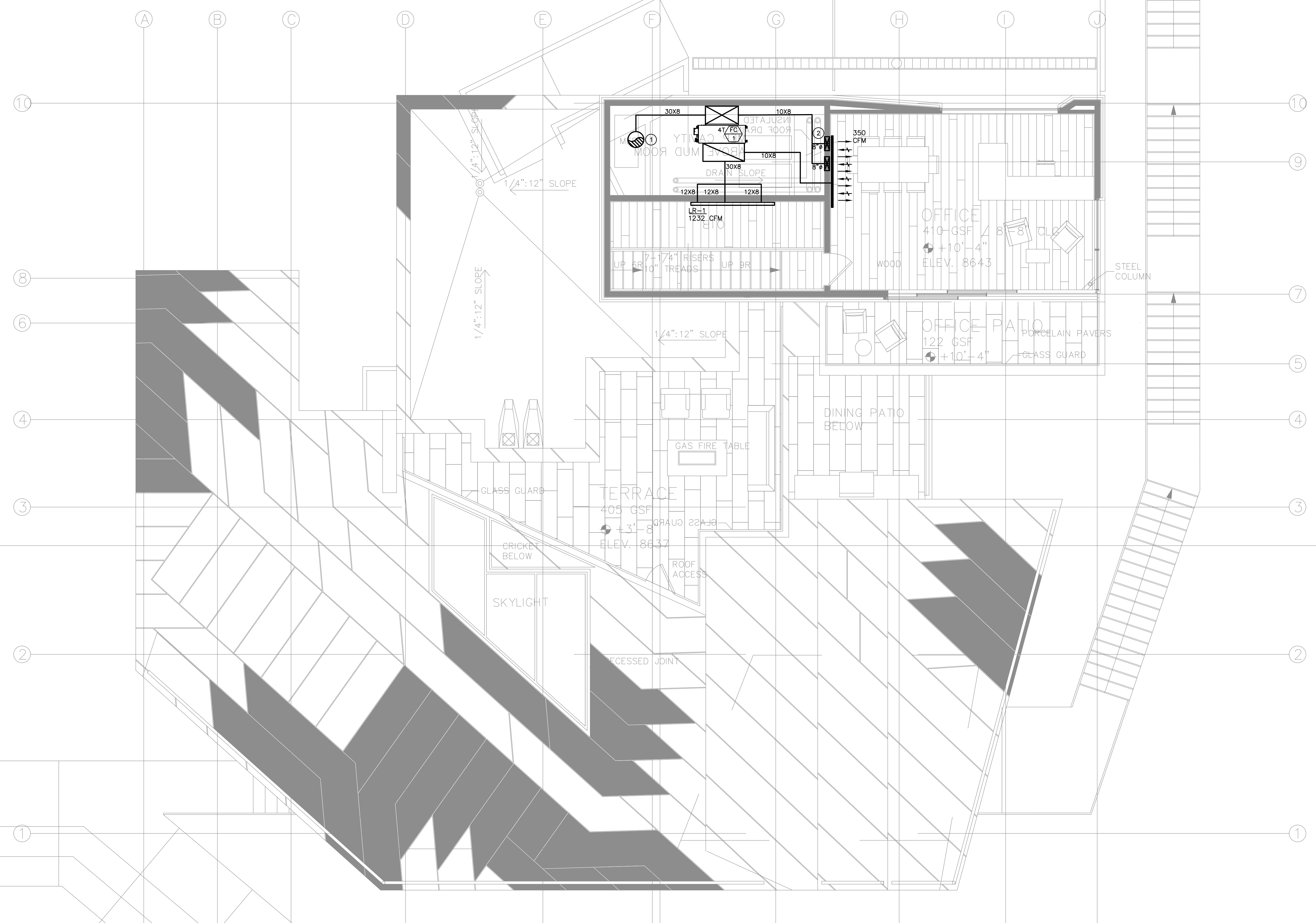


SCHEDULES, NOTES, & LEGEND table with columns for REVISIONS, BY, DATE, DATE: 05/05/2018, SCALE: 1/4" = 1'-0", DRAWN: K.S., SHEET: M1.1.

- NOTES:**
- AIR INLETS THAT ARE PART OF THE VENTILATION DESIGN SHALL BE LOCATED A MINIMUM OF 10 FEET FROM KNOWN SOURCES OF CONTAMINATION SUCH AS A STACK VENT AND EXHAUST TERMINATION. THE INTAKE SHALL BE PLACED SO THAT ENTERING AIR IS NOT OBSTRUCTED. FORCED AIR INLETS SHALL BE PROVIDED WITH RODENT/INSECT SCREENS (MESH NOT LARGER THAN 1/2 INCH).
 - PROVIDE LINED SUPPLY AIR AND RETURN AIR PLENUM.

NUMBERED NOTES:

- 16"Ø SUPPLY DUCT DOWN.
- (2) 14X5 SUPPLY DUCTS DOWN TO LOWER WALL. GRILLE TO BE 12" ABOVE FROM FLOOR. WALL RETURN TO BE 10" FROM CEILING.



PLAN REVIEW ACCEPTANCE
 FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

<input checked="" type="checkbox"/> BUILDING	<input checked="" type="checkbox"/> STRUCTURAL
<input checked="" type="checkbox"/> MECHANICAL	<input checked="" type="checkbox"/> PLUMBING
<input checked="" type="checkbox"/> ELECTRICAL	<input checked="" type="checkbox"/> ENERGY
<input checked="" type="checkbox"/> ACCESSIBILITY	<input checked="" type="checkbox"/> FIRE

PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS.

BY: **MEM** DATE: 03/08/19
WEST COAST CODE CONSULTANTS, INC.

POWDER MOUNTAIN HOUSE

OWNER: **TOM BUTTGENBACH**
 8645 EASET COPPER CREST
 EDEN, UT 84310

ARCHITECT: TOM WISCOMBE ARCHITECTURE <small>2454 WILSHIRE BLVD., SUITE 48 LOS ANGELES, CA 90057 (213) 674-2238 WWW.TOMWISCOMBE.COM</small>	STRUCTURAL ENGINEER: NOUS <small>527 W 7TH STREET LOS ANGELES, CA 90014 (213) 627-6887 WWW.NOUSENGINEERING.COM</small>	CIVIL ENGINEER: TALISMAN <small>527 W 7TH STREET MURRAY, UT 84107 (801) 745-1300 WWW.TALISMANOVILL.COM</small>	MECHANICAL / PLUMBING: SHAMIM <small>5520 CORBIN AVE., SUITE 300 IRVINE, CA 92618 (949) 788-6778 WWW.SHAMIMENGINEERING.COM</small>	ELECTRICAL: ABRARI ENGINEERING <small>CLENDALE, CA (714) 456-7894 WWW.ABRARI.COM</small>	NGBS CONSULTING: ARGENTO/GRAHAM <small>911 WEST 7TH STREET, 10TH FLOOR LOS ANGELES, CA 90017 (323) 536-2578 WWW.ARGENTOGRAHAM.COM</small>	GEOTECHNICAL: IGES <small>2702 SOUTH 1030 WEST SUITE 10 SALT LAKE CITY, UT 84120 (801) 270-9400 WWW.IGESINC.COM</small>	LANDSCAPE ARCHITECT: LDG <small>328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1255 WWW.KGMLIGHTING.COM</small>	LIGHTING DESIGNER: KGM <small>328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1255 WWW.KGMLIGHTING.COM</small>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



PENTHOUSE LEVEL

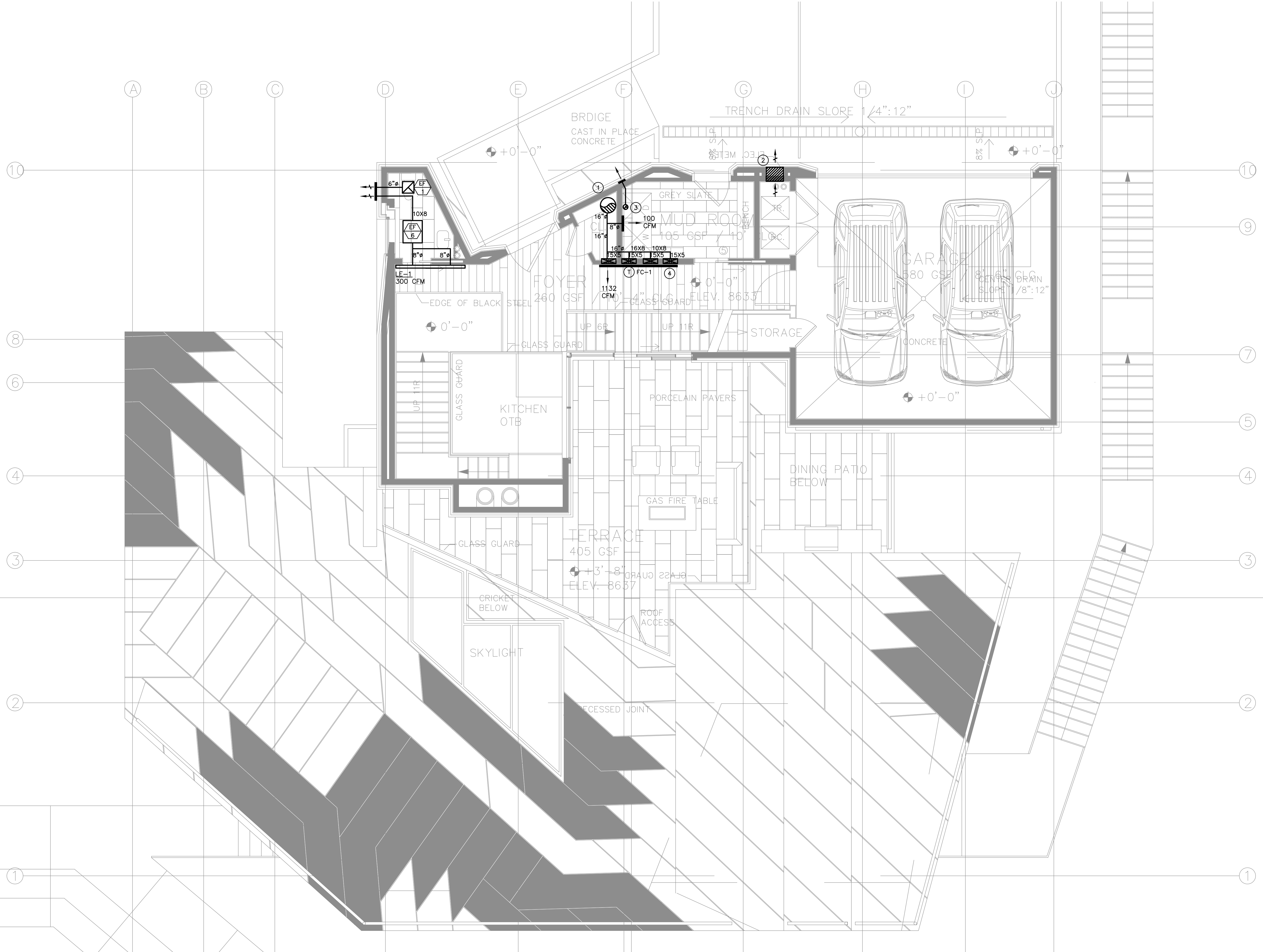
REVISIONS:	BY:	DATE:	DATE:
			05/05/2018
			SCALE: 1/4" = 1'-0"
			DRAWN: K.S.
			SHEET: M2.0

NOTES:

- 1- AIR INLETS THAT ARE PART OF THE VENTILATION DESIGN SHALL BE LOCATED A MINIMUM OF 10 FEET FROM KNOWN SOURCES OF CONTAMINATION SUCH AS A STACK VENT AND EXHAUST TERMINATION. THE INTAKE SHALL BE PLACED SO THAT ENTERING AIR IS NOT OBSTRUCTED. FORCED AIR INLETS SHALL BE PROVIDED WITH RODENT/INSECT SCREENS (MESH NOT LARGER THAN 1/8" INCH).
- 2- PROVIDE LINED SUPPLY AIR AND RETURN AIR PLENUM.

NUMBERED NOTES:

- ① 16"Ø SUPPLY DUCT FROM ABOVE.
- ② 18X18 LOUVER.
- ③ 4"Ø DRYER EXHAUST DUCT UP.
- ④ (4) 15X5 SUPPLY DUCTS DOWN. GRILLE TO BE 12" ABOVE FLOOR.



PLAN REVIEW ACCEPTANCE
 FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

<input checked="" type="checkbox"/> BUILDING	<input checked="" type="checkbox"/> STRUCTURAL
<input checked="" type="checkbox"/> MECHANICAL	<input checked="" type="checkbox"/> PLUMBING
<input checked="" type="checkbox"/> ELECTRICAL	<input checked="" type="checkbox"/> ENERGY
<input type="checkbox"/> ACCESSIBILITY	<input type="checkbox"/> FIRE

PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS.

BY: **MEM** DATE: 03/08/19
WEST COAST CODE CONSULTANTS, INC.

POWDER MOUNTAIN HOUSE

OWNER:
TOM BUTTGENBACH
 8645 EASET COPPER CREST
 EDEN, UT 84310

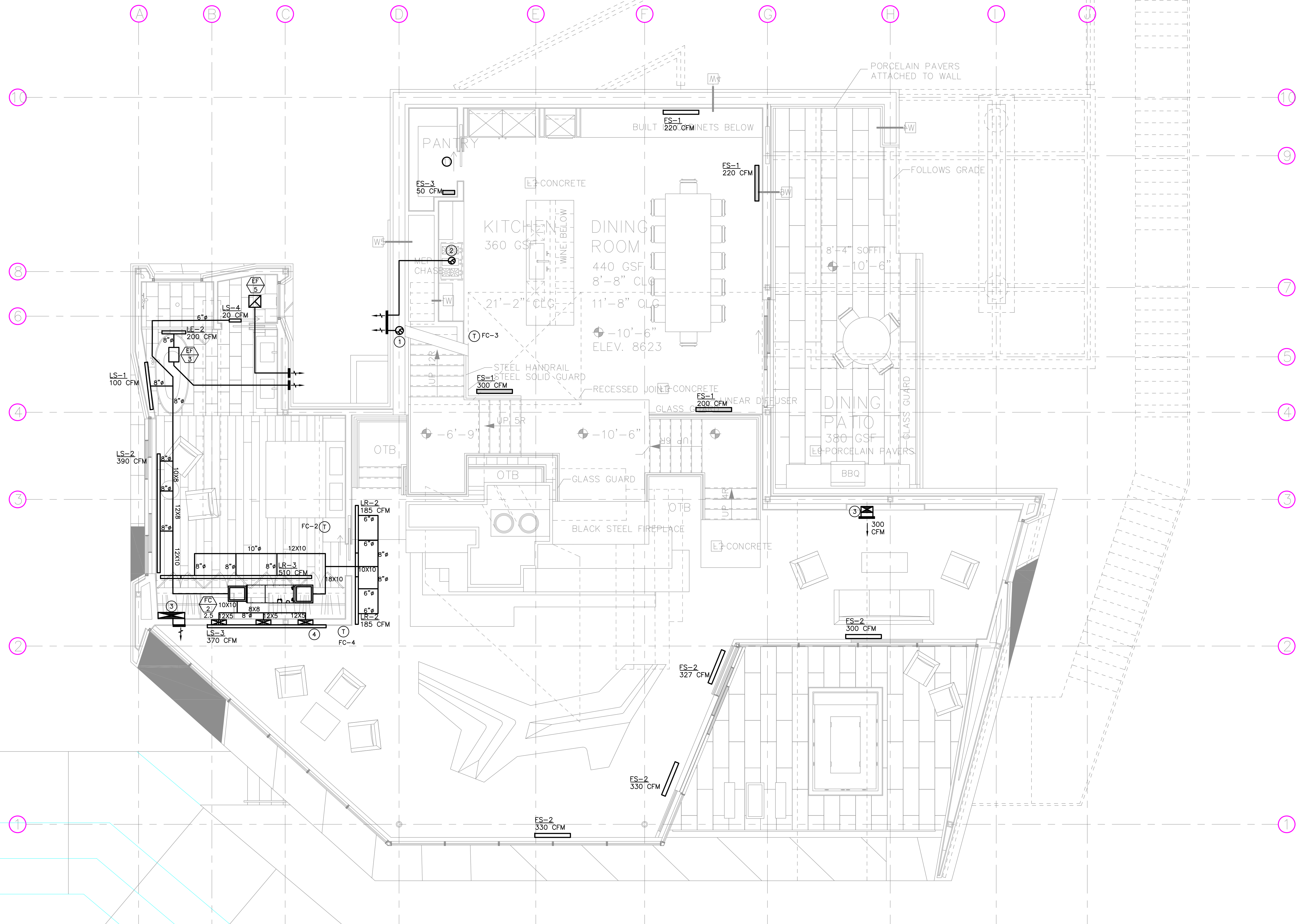
<p>ARCHITECT: TOM WISCOMBE ARCHITECTURE 2454 WILSHIRE BLVD., SUITE 4B LOS ANGELES, CA 90027 (213) 674-2238 WWW.TOMWISCOMBE.COM</p>	<p>STRUCTURAL ENGINEER: NOUS 527 W 7TH STREET LOS ANGELES, CA 90014 (213) 627-6887 WWW.NOUSENGINEERING.COM</p>	<p>CIVIL ENGINEER: TALISMAN CIVIL CONSULTANTS 527 W 7TH STREET MURRAY, UT 84107 (801) 745-1300 WWW.TALISMANCIVIL.COM</p>	<p>MECHANICAL / PLUMBING: SHAMIM ENGINEERING CONSULTANTS INC. 3530 CORBIN AVE, SUITE 300 FRODOVA, CA 91356 (916) 788-6778 WWW.SHAMIMENGINEERING.COM</p>	<p>ELECTRICAL: ABRARI ENGINEERING (ARMA & ASSOCIATES) CLENDALE, CA (714) 456-7894 WWW.ABRARI.COM</p>	<p>NGBS CONSULTING: ARGENTO/GRAHAM 911 WEST 7TH STREET, 10TH FLOOR LOS ANGELES, CA 90017 (323) 536-2578 WWW.ARGENTOGRAHAM.COM</p>	<p>GEOTECHNICAL: IGES 2702 SOUTH 1030 WEST SUITE 10 SALT LAKE CITY, UT 84020 (801) 270-9400 WWW.IGESINC.COM</p>	<p>LANDSCAPE ARCHITECT: LDG 328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1255</p>	<p>LIGHTING DESIGNER: KGM 328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1255 WWW.KGMLIGHTING.COM</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



EXP-03-31-2021

ENTRY LEVEL

REVISIONS:	BY:	DATE:	DATE:
			05/05/2018
			SCALE: 1/4" = 1'-0"
			DRAWN: K.S.
			SHEET: M2.1



- NOTES:**
- AIR INLETS THAT ARE PART OF THE VENTILATION DESIGN SHALL BE LOCATED A MINIMUM OF 10 FEET FROM KNOWN SOURCES OF CONTAMINATION SUCH AS A STACK VENT AND EXHAUST TERMINATION. THE INTAKE SHALL BE PLACED SO THAT ENTERING AIR IS NOT OBSTRUCTED. FORCED AIR INLETS SHALL BE PROVIDED WITH RODENT/INSECT SCREENS (MESH NOT LARGER THAN 1/2 INCH).
 - PROVIDE LINED SUPPLY AIR AND RETURN AIR PLENUM.
 - DRYER EXHAUSTS SHALL TERMINATE AT LEAST 3 FEET FROM PROPERTY LINE AND THREE FEET FROM OPENINGS IN ANY BUILDING.
 - NO LOUVERS ALLOWED ON DRYER DISCHARGE.
 - CONCENTRIC WATER HEATER COMBUSTION INTAKE AND EXHAUST FLUE TO EXTERIOR WALL. VERIFY EXACT SIZE WITH MANUFACTURER.

- NUMBERED NOTES:**
- 8" EXHAUST DUCT FROM BELOW TO TERMINATE WITH WEATHERCAP.
 - 7" (OR 3-1/4"x10") KITCHEN HOOD EXHAUST DUCT UTR WITH ROOF CAP OR TO SIDE WALL WITH WALL CAP. VERIFY DUCT SIZES PER MANUFACTURER'S REQUIREMENTS.
 - 12X6 DUCT FROM BELOW TO TERMINATE UNDER SHELVING WITH TOE KICK.
 - (3) 14X5 SUPPLY DUCTS DOWN. GRILLE TO BE 12" ABOVE FLOOR.

PLAN REVIEW ACCEPTANCE
 FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

<input checked="" type="checkbox"/> BUILDING	<input checked="" type="checkbox"/> STRUCTURAL
<input checked="" type="checkbox"/> MECHANICAL	<input checked="" type="checkbox"/> PLUMBING
<input checked="" type="checkbox"/> ELECTRICAL	<input checked="" type="checkbox"/> ENERGY
<input checked="" type="checkbox"/> ACCESSIBILITY	<input checked="" type="checkbox"/> FIRE

PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS.

BY: **MEM** DATE: 03/08/19
WEST COAST CODE CONSULTANTS, INC.

POWDER MOUNTAIN HOUSE

OWNER: TOM BUTTGENBACH
 8645 EASET COPPER CREST
 EDEN, UT 84310

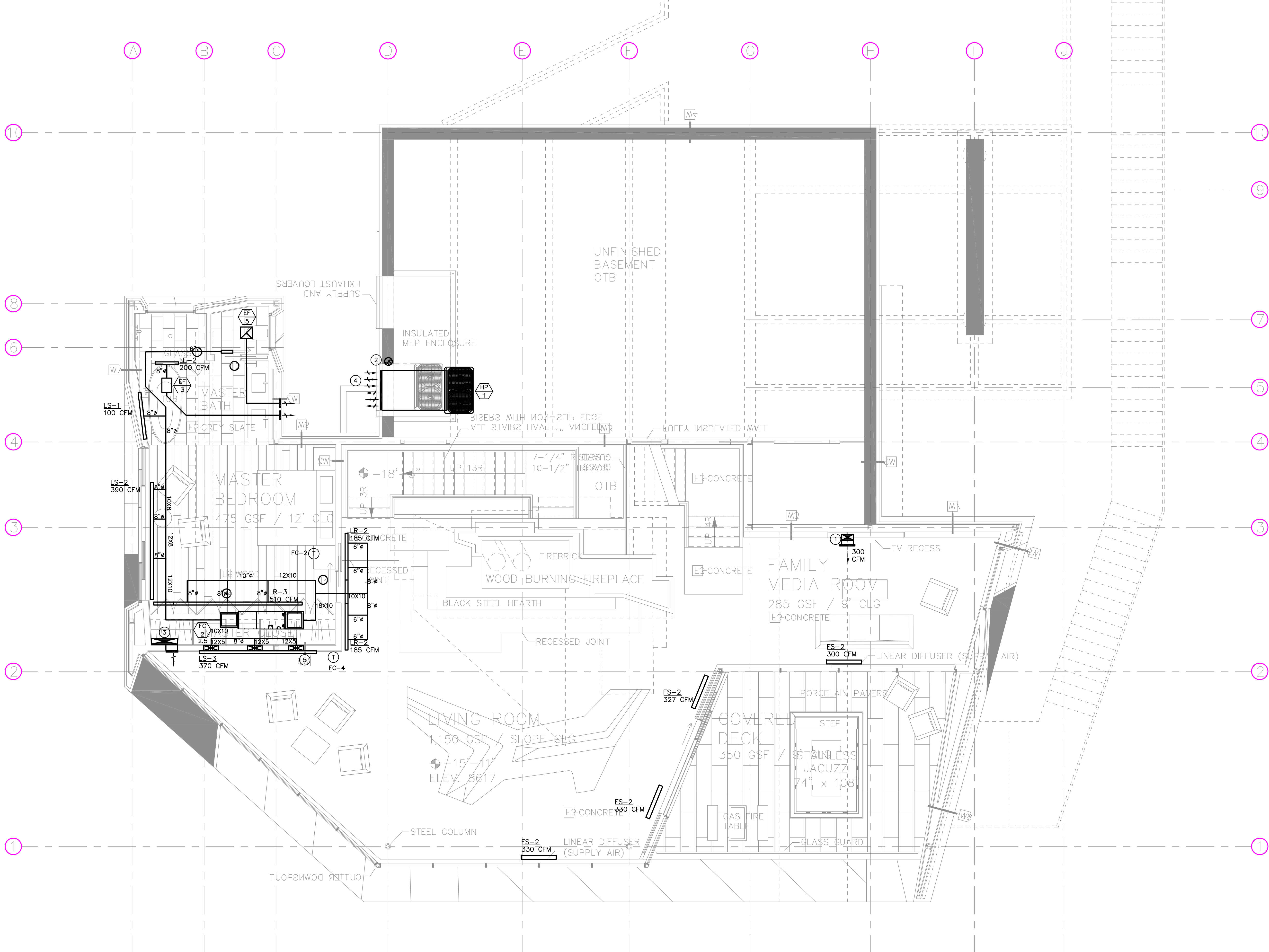
ARCHITECT: TOM WISCOMBE ARCHITECTURE <small>2414 WILSHIRE BLVD., SUITE 4B LOS ANGELES, CA 90067 (213) 674-2238 WWW.TOMWISCOMBE.COM</small>	STRUCTURAL ENGINEER: NOUS <small>527 W 7TH STREET LOS ANGELES, CA 90014 (213) 627-6927 WWW.NOUSENGINEERING.COM</small>	CIVIL ENGINEER: TALISMAN <small>527 W 7TH STREET HUNTERY, UT 84017 (801) 743-1303 WWW.TALISMANCIVIL.COM</small>	MECHANICAL / PLUMBING: SHAMIM <small>5530 CORBIN AVE., SUITE 300 IRVINE, CA 92618 (949) 788-6778 WWW.SHAMIMENGINEERING.COM</small>	ELECTRICAL: ABRARI <small>OLENDALE, CA (714) 458-7894 WWW.ABRARI.COM</small>	NGBS CONSULTING: ARGENTO/GRAHAM <small>911 WEST 7TH STREET, 10TH FLOOR LOS ANGELES, CA 90017 (323) 535-2578 WWW.ARGENTOGRAHAM.COM</small>	GEOTECHNICAL: IGES <small>2702 SOUTH 1030 WEST SUITE 10 SALT LAKE CITY, UT 84020 (801) 270-9400 WWW.IGESINC.COM</small>	LANDSCAPE ARCHITECT: LDG <small>328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1255 WWW.WALSHLIGHTING.COM</small>	LIGHTING DESIGNER: KGM <small>328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1255 WWW.WALSHLIGHTING.COM</small>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



EXP-03-31-2021

MEZZANINE LEVEL

REVISIONS:	BY:	DATE:	DATE:
			05/05/2018
			SCALE: 1/4" = 1'-0"
			DRAWN: K.S.
			SHEET: M2.2



- NOTES:**
- AIR INLETS THAT ARE PART OF THE VENTILATION DESIGN SHALL BE LOCATED A MINIMUM OF 10 FEET FROM KNOWN SOURCES OF CONTAMINATION SUCH AS A STACK VENT AND EXHAUST TERMINATION. THE INTAKE SHALL BE PLACED SO THAT ENTERING AIR IS NOT OBSTRUCTED. FORCED AIR INLETS SHALL BE PROVIDED WITH RODENT/INSECT SCREENS (MESH NOT LARGER THAN 1/8 INCH).
 - PROVIDE LINED SUPPLY AIR AND RETURN AIR PLENUM.
 - DRYER EXHAUSTS SHALL TERMINATE AT LEAST 3 FEET FROM PROPERTY LINE AND THREE FEET FROM OPENINGS INTO ANY BUILDING.
 - NO LOUVERS ALLOWED ON DRYER DISCHARGE.
 - CONCENTRIC WATER HEATER COMBUSTION INTAKE AND EXHAUST FLUE TO EXTERIOR WALL. VERIFY EXACT SIZE WITH MANUFACTURER.

- NUMBERED NOTES:**
- 12X6 DUCT FROM BELOW TO TERMINATE UNDER SHELVING WITH TOE KICK.
 - 8" EXHAUST DUCT FROM BELOW TO TERMINATE WITH WEATHERCAP.
 - 2 SQ. FT. FREE AREA LOUVERED FOR OUTSIDE AIR.
 - 46 SQ. FT. LOUVER FOR CONDENSER UNIT EXHAUST AND FRESH AIR. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER.
 - (3) 14X5 SUPPLY DUCTS DOWN. GRILLE TO BE 12" ABOVE FLOOR.

PLAN REVIEW ACCEPTANCE
 FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

<input checked="" type="checkbox"/> BUILDING	<input checked="" type="checkbox"/> STRUCTURAL
<input checked="" type="checkbox"/> MECHANICAL	<input checked="" type="checkbox"/> PLUMBING
<input checked="" type="checkbox"/> ELECTRICAL	<input checked="" type="checkbox"/> ENERGY
<input checked="" type="checkbox"/> ACCESSIBILITY	<input checked="" type="checkbox"/> FIRE

PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS.

BY: **MEM** DATE: 03/08/19
WEST COAST CODE CONSULTANTS, INC.

POWDER MOUNTAIN HOUSE

OWNER:
TOM BUTTGENBACH
 8645 EASET COPPER CREST
 EDEN, UT 84310

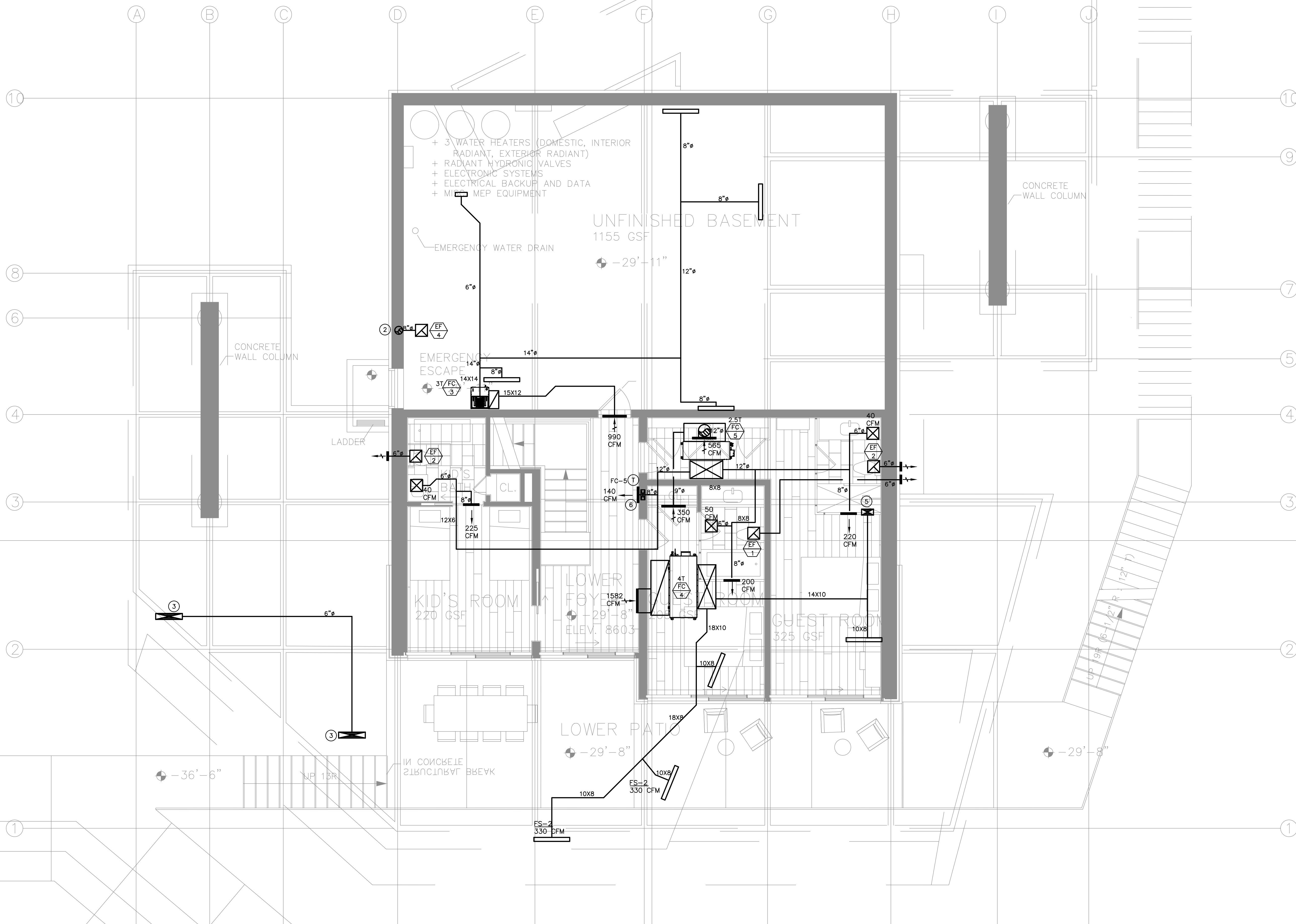
ARCHITECT: TOM WISCOMBE ARCHITECTURE <small>2414 WILSHIRE BLVD., SUITE 40 LOS ANGELES, CA 90067 (213) 874-2238 WWW.TOMWISCOMBE.COM</small>	STRUCTURAL ENGINEER: NOUS <small>5217 SOUTH STATE STREET HAWAII, HI 96707 (813) 627-6927 WWW.NOUSENGINEERING.COM</small>	CIVIL ENGINEER: TALISMAN <small>5217 SOUTH STATE STREET HAWAII, HI 96707 (813) 627-6927 WWW.TALISMANCIVIL.COM</small>	MECHANICAL / PLUMBING: SHAMIM <small>5530 CORBIN AVE., SUITE 300 IRVINE, CA 92618 (949) 788-6778 WWW.SHAMIMENGINEERING.COM</small>	ELECTRICAL: ABRARI ENGINEERING <small>OLENDLE, CA (725) 458-7894 WWW.ABRARI.COM</small>	NGBS CONSULTING: ARGENTO/GRAHAM <small>911 WEST 7TH STREET, 10TH FLOOR LOS ANGELES, CA 90017 (323) 535-2578 WWW.ARGENTOGRAHAM.COM</small>	GEOTECHNICAL: IGES <small>2702 SOUTH 1030 WEST SUITE 10 SALT LAKE CITY, UT 84120 (801) 270-9400 WWW.IGESINC.COM</small>	LANDSCAPE ARCHITECT: LDG <small>328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1295 WWW.LDGLIGHTING.COM</small>	LIGHTING DESIGNER: KGM <small>328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1295 WWW.KGMLIGHTING.COM</small>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



EXP-03-31-2021

LIVING ROOM LEVEL

REVISIONS:	BY:	DATE:	DATE:
			05/05/2018
			SCALE: 1/4" = 1'-0"
			DRAWN: K.S.
			SHEET: M2.3



NOTES:

- 1- AIR INLETS THAT ARE PART OF THE VENTILATION DESIGN SHALL BE LOCATED A MINIMUM OF 10 FEET FROM KNOWN SOURCES OF CONTAMINATION SUCH AS A STACK VENT AND EXHAUST TERMINATION. THE INTAKE SHALL BE PLACED SO THAT ENTERING AIR IS NOT OBSTRUCTED. FORCED AIR INLETS SHALL BE PROVIDED WITH RODENT/INSECT SCREENS (MESH NOT LARGER THAN 1/8 INCH).
- 2- PROVIDE LINED SUPPLY AIR AND RETURN AIR PLENUM.
- 3- DRYER EXHAUSTS SHALL TERMINATE AT LEAST 3 FEET FROM PROPERTY LINE AND THREE FEET FROM OPENINGS INTO ANY BUILDING.
- 4- NO LOUVERS ALLOWED ON DRYER DISCHARGE.
- 5- CONCENTRIC WATER HEATER COMBUSTION INTAKE AND EXHAUST FLUE TO EXTERIOR WALL. VERIFY EXACT SIZE WITH MANUFACTURER.

NUMBERED NOTES:

- 1 VOID.
- 2 8" EXHAUST DUCT UP.
- 3 2 SQ. FT. FREE AREA LOUVER FOR OUTSIDE AIR TO BE DUCTED TO THE UNIT AND OUTSIDE AIR CHASE..
- 4 VOID.
- 5 12X6 SUPPLY DUCT UP TO TOE KICK UNDER SHELVING.
- 6 (1) 10X4 SUPPLY DUCTS DOWN. GRILLE TO BE 12" ABOVE FLOOR.

PLAN REVIEW ACCEPTANCE
 FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

<input checked="" type="checkbox"/> BUILDING	<input checked="" type="checkbox"/> STRUCTURAL
<input checked="" type="checkbox"/> MECHANICAL	<input checked="" type="checkbox"/> PLUMBING
<input checked="" type="checkbox"/> ELECTRICAL	<input checked="" type="checkbox"/> ENERGY
<input checked="" type="checkbox"/> ACCESSIBILITY	<input checked="" type="checkbox"/> FIRE

PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS.

BY: **MEM** DATE: 03/08/19
WEST COAST CODE CONSULTANTS, INC.

POWDER MOUNTAIN HOUSE

OWNER:
TOM BUTTGENBACH
 8645 EASET COPPER CREST
 EDEN, UT 84310

ARCHITECT: TOM WISCOMBE ARCHITECTURE <small>2454 WILSHIRE BLVD., SUITE 48 LOS ANGELES, CA 90007 (213) 674-2238 WWW.TOMWISCOMBE.COM</small>	STRUCTURAL ENGINEER: NOUS <small>527 W 7TH STREET LOS ANGELES, CA 90014 (213) 627-6887 WWW.NOUSENGINEERING.COM</small>	CIVIL ENGINEER: TALISMAN <small>527 W 7TH STREET MURRAY, UT 84107 (801) 745-1300 WWW.TALISMANCIVIL.COM</small>	MECHANICAL / PLUMBING: SHAMIM <small>5520 CORBIN AVE, SUITE 300 FRODOBA, CA 91326 (916) 788-6778 WWW.SHAMIMENGINEERING.COM</small>	ELECTRICAL: ABRARI ENGINEERING <small>CLENDALE, CA (714) 456-7894 WWW.ABRARI.COM</small>	NGBS CONSULTING: ARGENTO/GRAHAM <small>811 WEST 7TH STREET, 10TH FLOOR LOS ANGELES, CA 90017 (323) 536-2578 WWW.ARGENTOGRAHAM.COM</small>	GEOTECHNICAL: IGES <small>2702 SOUTH 1030 WEST SUITE 10 SALT LAKE CITY, UT 84120 (801) 270-9400 WWW.IGESINC.COM</small>	LANDSCAPE ARCHITECT: LDG <small>328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1255</small>	LIGHTING DESIGNER: KGM <small>328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1255 WWW.KGMLIGHTING.COM</small>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



BASEMENT LEVEL			
REVISIONS:	BY:	DATE:	DATE:
			05/05/2018
			SCALE: 1/4" = 1'-0"
			DRAWN: K.S.
			SHEET: M2.4

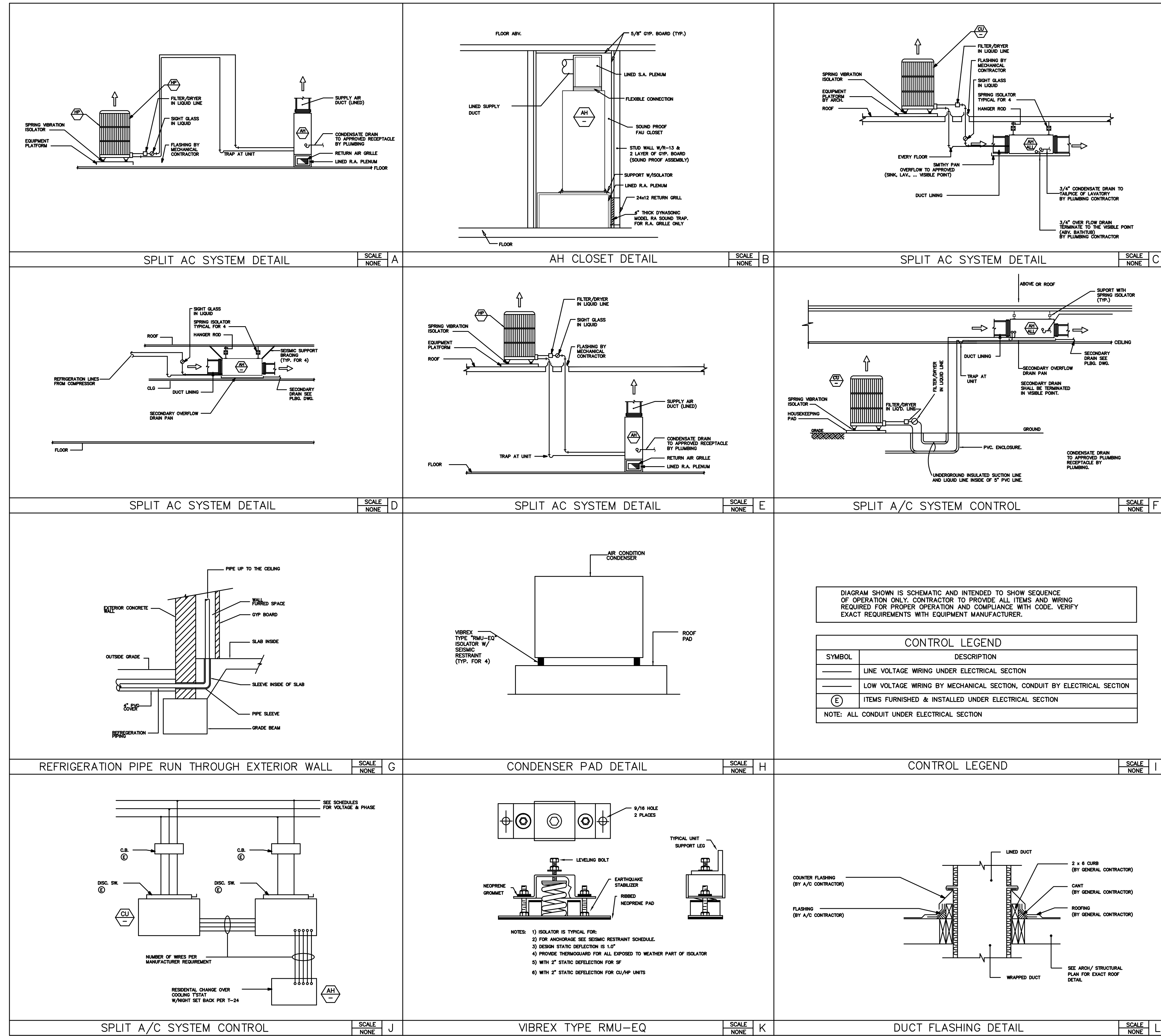


DIAGRAM SHOWN IS SCHEMATIC AND INTENDED TO SHOW SEQUENCE OF OPERATION ONLY. CONTRACTOR TO PROVIDE ALL ITEMS AND WIRING REQUIRED FOR PROPER OPERATION AND COMPLIANCE WITH CODE. VERIFY EXACT REQUIREMENTS WITH EQUIPMENT MANUFACTURER.

CONTROL LEGEND	
SYMBOL	DESCRIPTION
—	LINE VOLTAGE WIRING UNDER ELECTRICAL SECTION
—	LOW VOLTAGE WIRING BY MECHANICAL SECTION, CONDUIT BY ELECTRICAL SECTION
(E)	ITEMS FURNISHED & INSTALLED UNDER ELECTRICAL SECTION

NOTE: ALL CONDUIT UNDER ELECTRICAL SECTION

PLAN REVIEW ACCEPTANCE
 FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

BUILDING STRUCTURAL
 MECHANICAL PLUMBING
 ELECTRICAL ENERGY
 ACCESSIBILITY FIRE

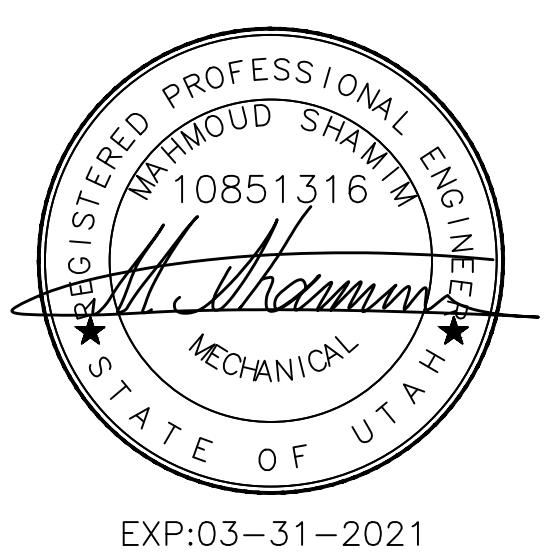
PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS.

BY: MEM DATE: 03/08/19
 WEST COAST CODE CONSULTANTS, INC.

POWDER MOUNTAIN HOUSE

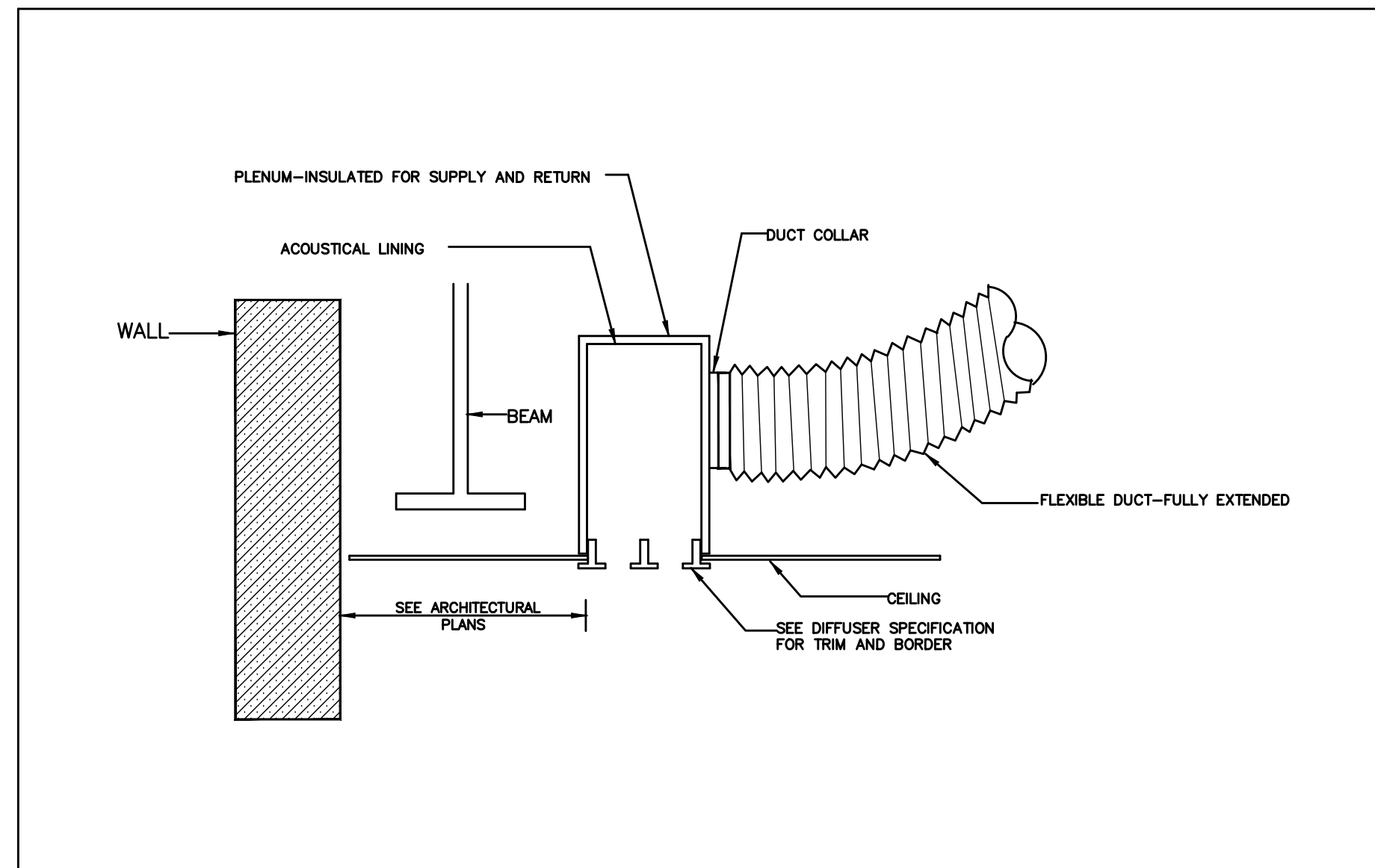
OWNER: TOM BUTTGENBACH
 8645 EASET COPPER CREST
 EDEN, UT 84310

ARCHITECT: TOM WISCOMBE ARCHITECTURE	STRUCTURAL ENGINEER: NOUS	CIVIL ENGINEER: TALISMAN	MECHANICAL / PLUMBING: SHAMIM	ELECTRICAL: ABRARI ENGINEERING	NGBS CONSULTING: ARGENTO/GRAHAM	GEOTECHNICAL: IGES	LANDSCAPE ARCHITECT: LDG	LIGHTING DESIGNER: KGM
2454 WILSHIRE BLVD., SUITE 48 LOS ANGELES, CA 90057 (213) 674-2238 WWW.TOMWISCOMBE.COM	527 W 7TH STREET MURRAY, UT 84107 (213) 627-6987 WWW.NOUSENGINEERING.COM	527 W 7TH STREET MURRAY, UT 84107 (801) 745-1300 WWW.TALISMANCIVIL.COM	5520 CORBIN AVE, SUITE 300 TRUCKEE, CA 95959 (916) 788-6778 WWW.SHAMIMENGINEERING.COM	CLENDALE, CA (213) 458-7894 WWW.ABRARI.COM	911 WEST 7TH STREET, 10TH FLOOR LOS ANGELES, CA 90017 (323) 536-2578 WWW.ARGENTOGRAHAM.COM	2702 SOUTH 1030 WEST SUITE 10 SALT LAKE CITY, UT 84120 (801) 270-9400 WWW.IGESINC.COM	328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1255	3529 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1255 WWW.KGMLIGHTING.COM



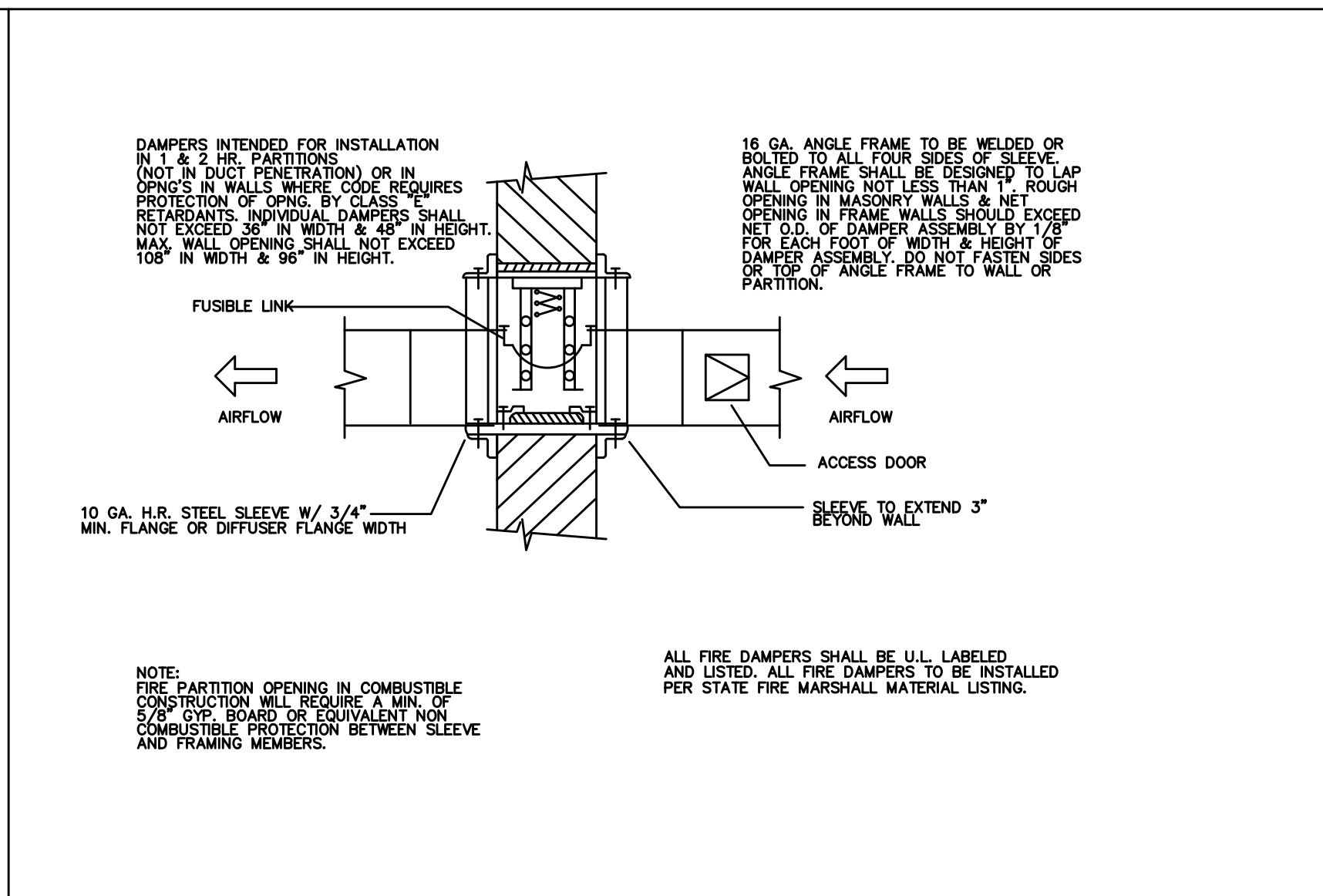
DETAIL SHEET

REVISIONS:	BY:	DATE:	DATE: 05/05/2018
			SCALE: 1/4" = 1'-0"
			DRAWN: K.S.
			SHEET: M3.0



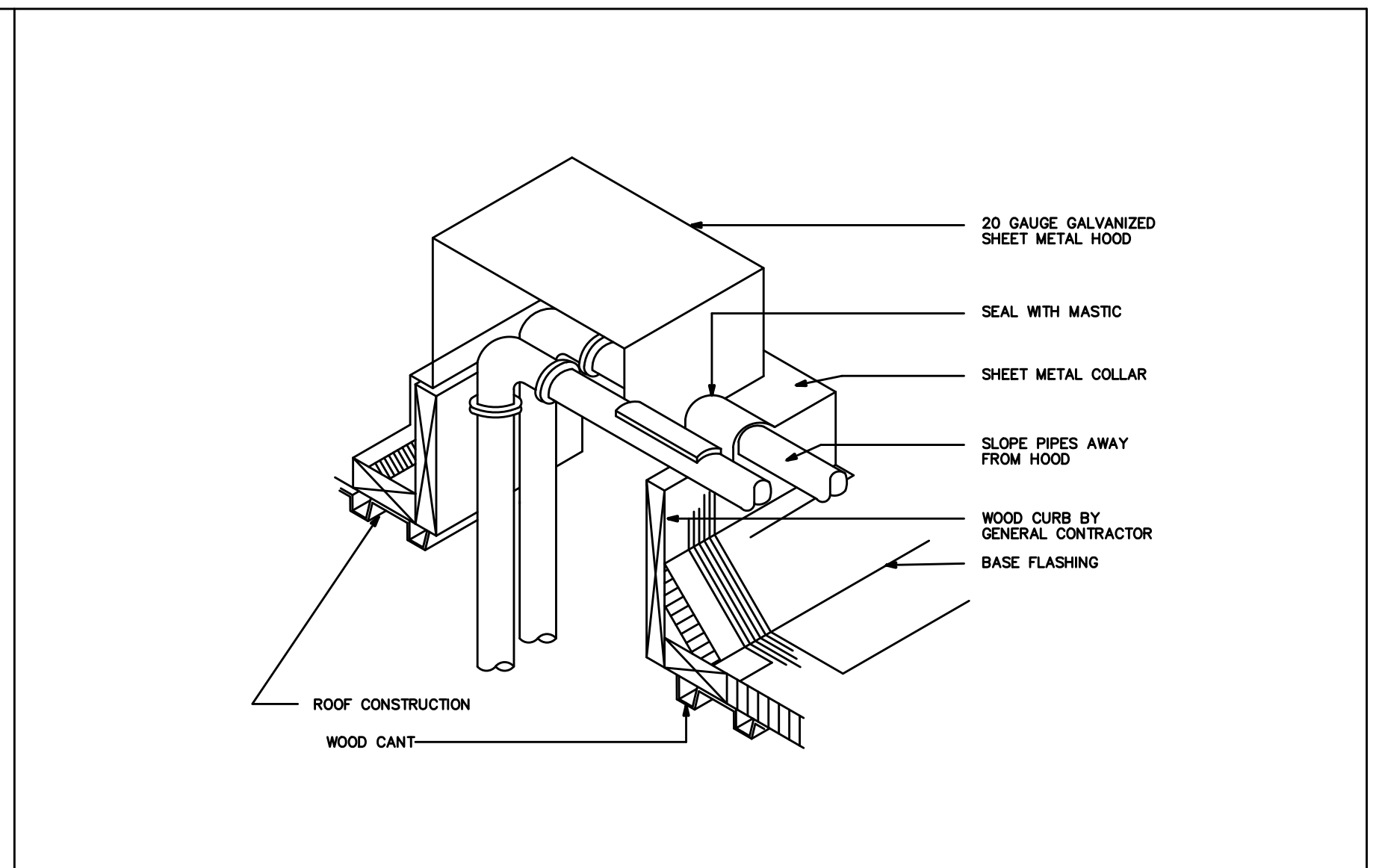
SCHEMATIC LINEAR DIFFUSER CONNECTION DETAIL

SCALE NONE A



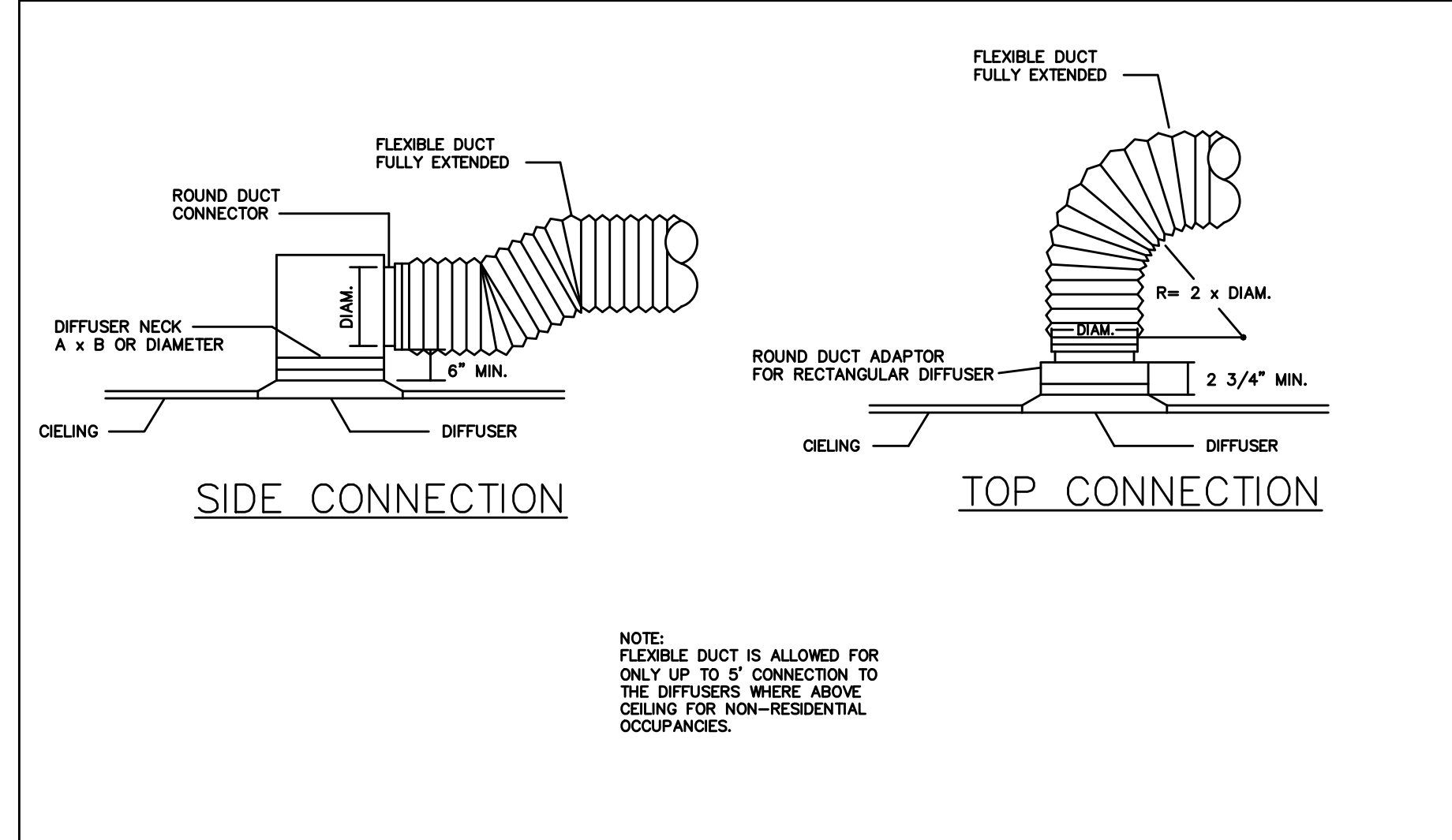
FIRE DAMPER DETAIL

SCALE NONE B



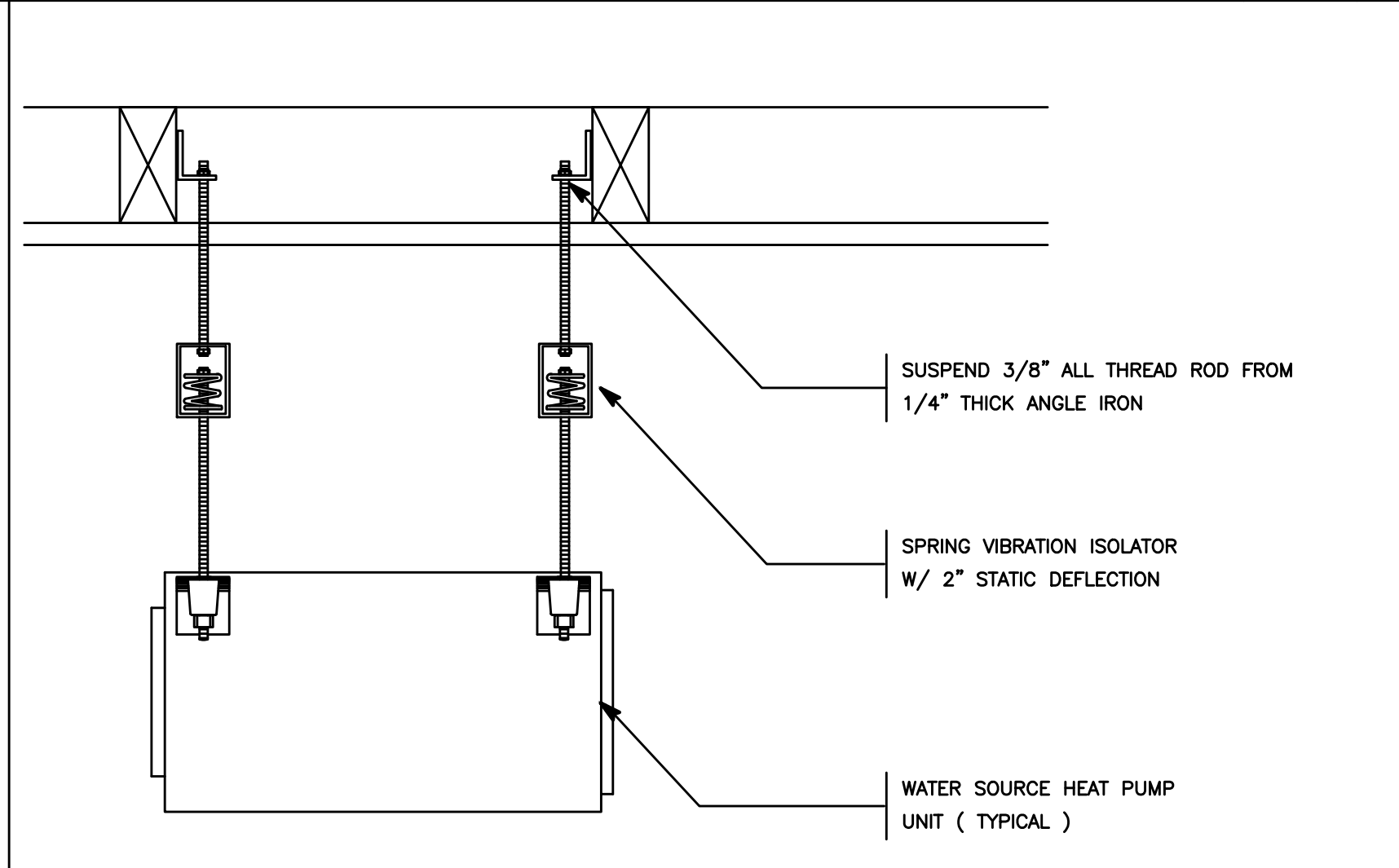
PIPE THRU ROOF DETAIL

SCALE NONE C



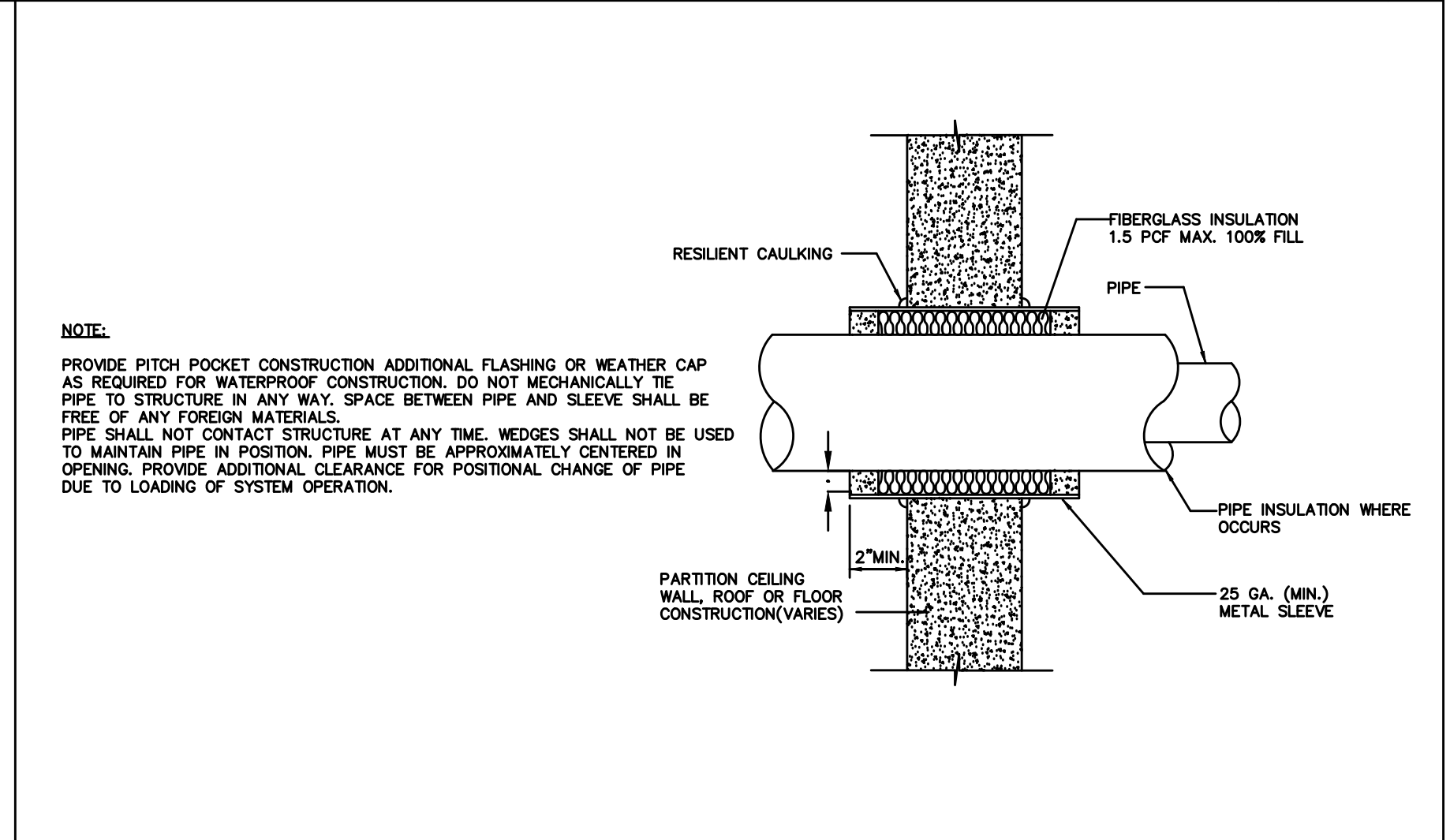
DIFFUSER CONNECTION

SCALE NONE D



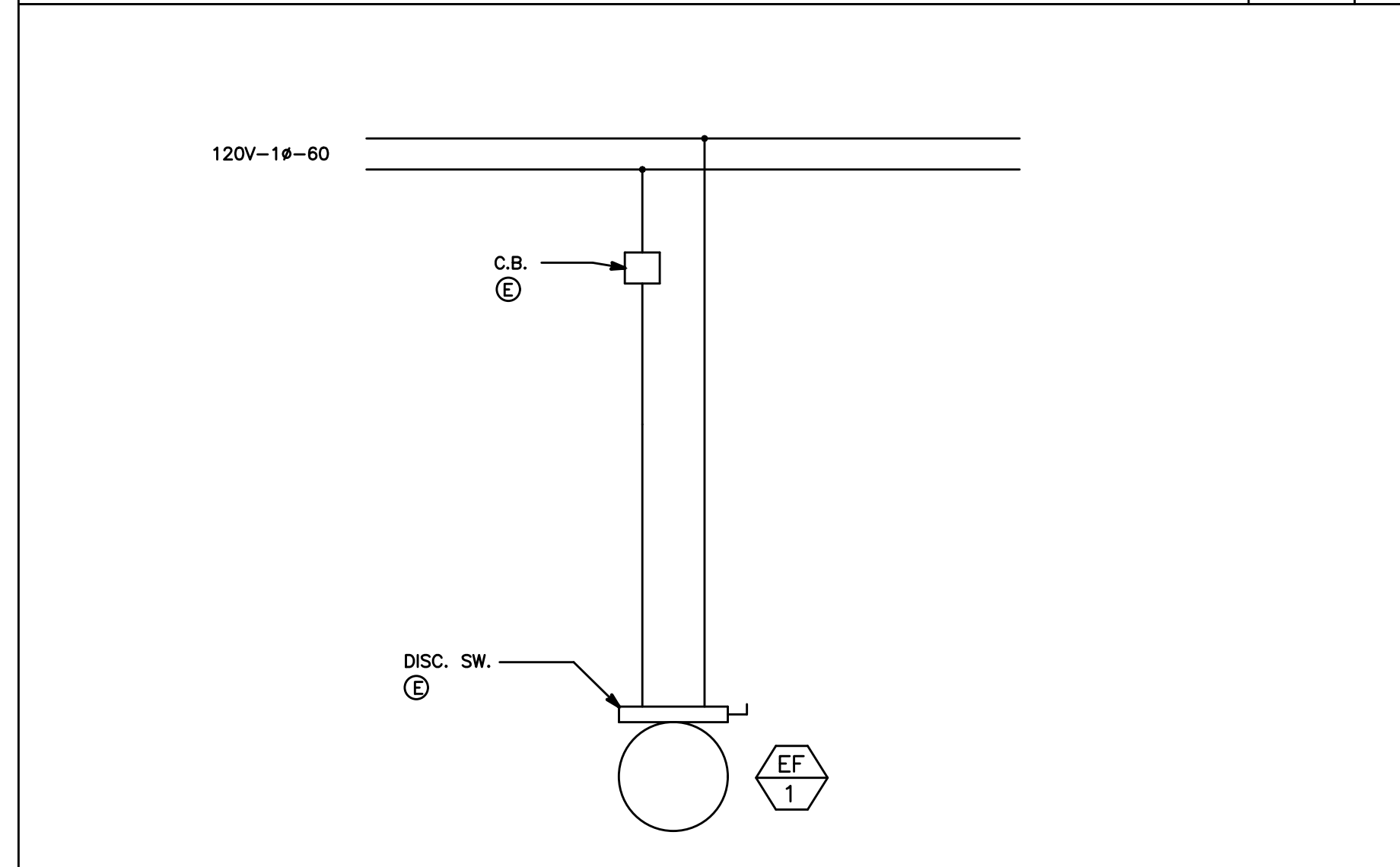
EXHAUST FAN W/ SPRING VIBRATION ISOLATOR

SCALE NONE E



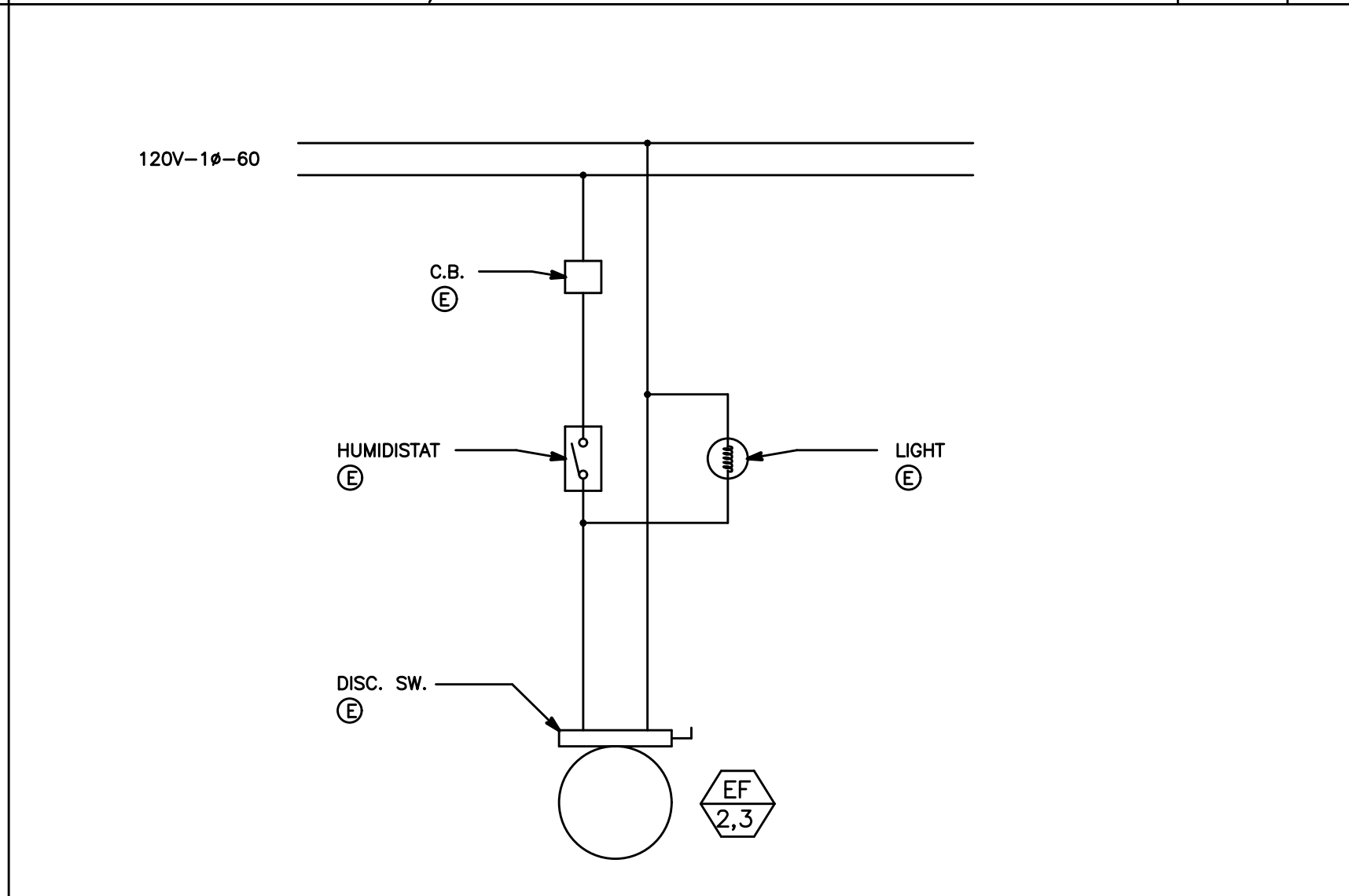
PIPE PENETRATION DETAIL

SCALE NONE F



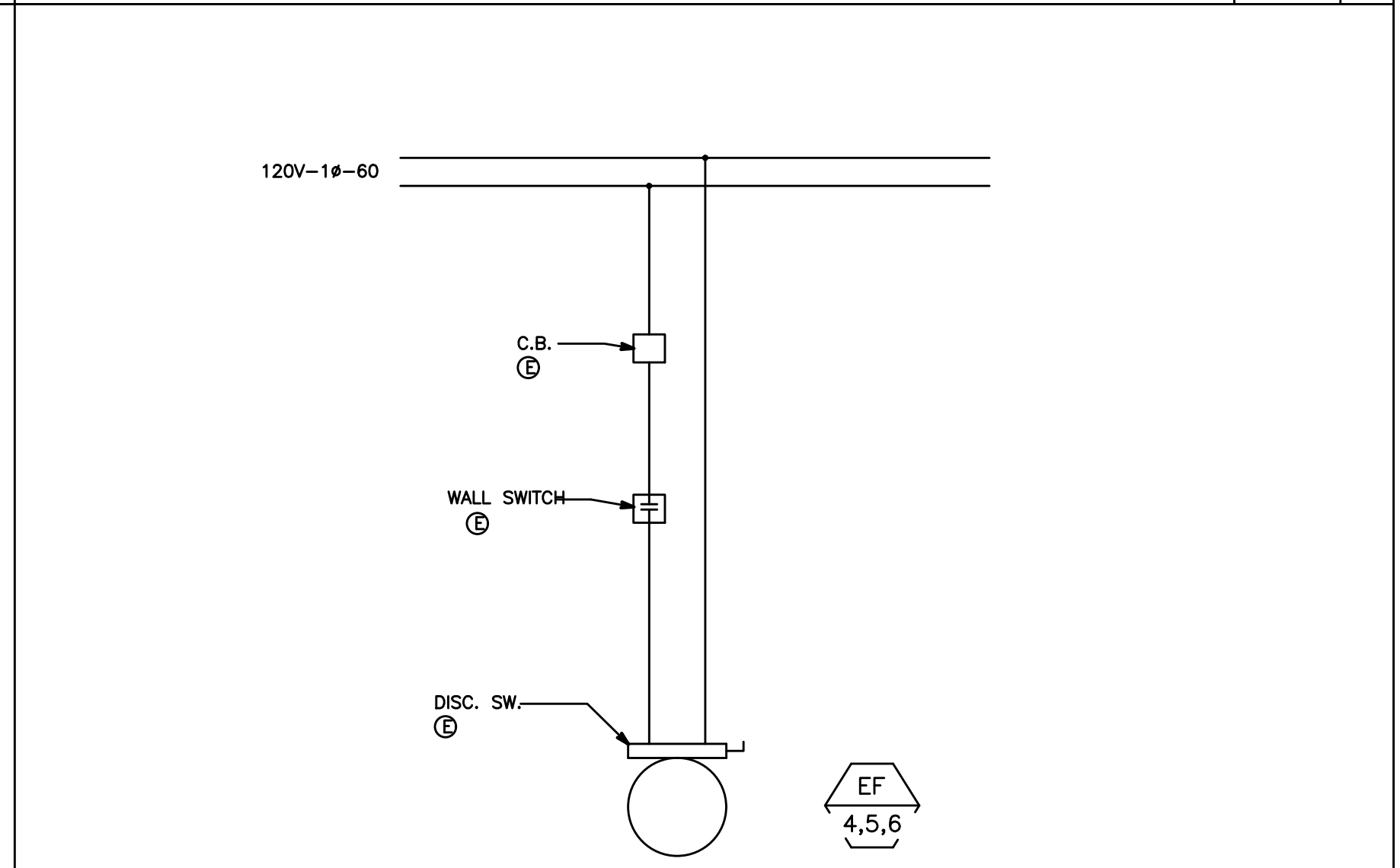
EXHAUST FAN CONTROL DIAGRAM

SCALE NONE G



EXHAUST FAN CONTROL DIAGRAM

SCALE NONE H



EXHAUST FAN CONTROL DIAGRAM

SCALE NONE I

PLAN REVIEW ACCEPTANCE
FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

<input checked="" type="checkbox"/> BUILDING	<input checked="" type="checkbox"/> STRUCTURAL
<input checked="" type="checkbox"/> MECHANICAL	<input checked="" type="checkbox"/> PLUMBING
<input checked="" type="checkbox"/> ELECTRICAL	<input checked="" type="checkbox"/> ENERGY
<input type="checkbox"/> ACCESSIBILITY	<input type="checkbox"/> FIRE

PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS.

BY: MEM DATE: 03/08/19
WEST COAST CODE CONSULTANTS, INC.

POWDER MOUNTAIN HOUSE

OWNER:
TOM BUTTGENBACH
8645 EASET COPPER CREST
EDEN, UT 84310

ARCHITECT:
TOM WISCOMBE ARCHITECTURE
2454 WILSHIRE BLVD., SUITE 4B
LOS ANGELES, CA 90027
(213) 674-2238
WWW.TOMWISCOMBE.COM

STRUCTURAL ENGINEER:
NOUS
527 W 7TH STREET
LOS ANGELES, CA 90014
(213) 627-6887
WWW.NOUSENGINEERING.COM

CIVIL ENGINEER:
TALISMAN
527 W 7TH STREET
MURRAY, UT 84107
(801) 745-1300
WWW.TALISMANCIVIL.COM

MECHANICAL / PLUMBING:
SHAMIM
5520 CORBIN AVE, SUITE 300
PASADENA, CA 91356
(818) 798-6778
WWW.SHAMIMENGINEERING.COM

ELECTRICAL:
ABRARI ENGINEERING
CLEVELAND, CA
(424) 456-7894
WWW.ABRARI.COM

NGBS CONSULTING:
ARGENTO/GRAHAM
911 WEST 7TH STREET, 10TH FLOOR
LOS ANGELES, CA 90017
(323) 536-2578
WWW.ARGENTOGRAHAM.COM

GEOTECHNICAL:
IGES
2702 SOUTH 1030 WEST SUITE 10
SALT LAKE CITY, UT 84120
(801) 270-9400
WWW.IGESINC.COM

LANDSCAPE ARCHITECT:
LDG
328 W 200 S SUITE 102
SALT LAKE CITY, UT 84101
(801) 593-1255

LIGHTING DESIGNER:
KGM
328 W 200 S SUITE 102
SALT LAKE CITY, UT 84101
(801) 593-1255
WWW.KGMLIGHTING.COM



EXP-03-31-2021

DETAIL SHEET

REVISIONS:	BY:	DATE:	DATE:
			05/05/2018
			SCALE: 1/4" = 1'-0"
			DRAWN: K.S.
			SHEET: M3.1