#### WATER HEATER SCHEDULE MANUFACTURER & MODEL VOLT PHASE CYCLE (LBS) MBH SYMBOL SERVICE LOCATION BRADFORD WHIT W/ P&T VALVE PROVIDE EXPANSION TANK (AMTROL ST-5V. BASEMENT HOT WATER 120 60 GAS 199 1500 EF-100T-199 RR#5204) W/ 6 YEAR WARRANTY, W/ RE-CIRCULATION PUMP MECH. ROOM

	WATER HEATER SCHEDULE											
S	SYMBOL	SERVICE	LOCATION	TYPE	MANUFACTURER & MODEL	EFFICENCY	BTUH INPUT		PHASE		OPER. WEIGHT (LBS)	REMARK
•	WH 3	FLOOR RADIANT HEATER	BASEMENT MECH. ROOM	GAS	RINNAI RUR98i	95%	200,000	120	1	60	~ ~	W/ P&T VALVE, PROVIDE EXPANSION TANK (AMTROL ST-5V, RR#5204), W/ 6 YEAR WARRANTY. W/ INLET COLD WATER FILTER CARTRIDGE, W/ RECIRCULATION PUMP.

F	PLUMBING	G F	FIXTU	JRE	SC	HE]	DULE
SYMB.	DESCRIPTION	W.	TRAP	V.	C.W.	H.W.	REMARKS
<u>wc</u>	WATER CLOSET	3"	INT	2"	3/4"	1	1.28 GPF @ 80 PSI. SEE ARCHITECTURAL PLANS FOR SPECIFICATIONS.
L	LAVATORY	2"	1 1/2 X	1 1/2"	3/4"	3/4"	FAUCETS TO BE MAXIMUM 1.2 GPM @ 80 PSI. SEE ARCHITECTURAL PLANS FOR SPECIFICATIONS.
SH	SHOWER	2"	2"	2"	3/4"	3/4"	SHOWER SHALL BE PROVIDED WITH SHOWER CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE. SHOWERHEADS SHALL BE 1.8 GPM @ 80PSI
MSH	MASTER SHOWER	2"	2"	2"	1"	1"	SHOWER SHALL BE PROVIDED WITH SHOWER CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE. SHOWERHEADS SHALL BE 1.8 GPM @ 80PSI
<u>w</u>	CLOTHES WASHER	2"	2"	2"	3/4"	3/4"	SEE ARCHITECTURAL PLANS FOR SPECIFICATIONS.
<u>IP</u>	TRAP PRIMER	-	_	_	1/2"	1	TRAP PRIMER AS MANUFACTURED BY PPP, MODEL NO. RR-500
<u>KS</u>	KITCHEN SINK	2"	2"	2"	3/4"	3/4"	1.5 GPM @ 80 PSI. W/ GARBAGE DISPOSAL. SEE ARCHITECTURAL PLANS FOR SPECIFICATIONS.
<u>DW</u>	DISH WASHER	2"	2"	2"	3/4"	3/4"	SEE ARCHITECTURAL PLANS FOR SPECIFICATIONS.
<u>wco</u>	WALL CLEANOUT	SEE PLANS	_	_	-	-	JR SMITH #4402C SERIES. STAINLESS STEEL. (OR APPROVED EQUAL)
JAC	JACUZZI	2"	2"	2"	1"	1"	W/INTEGRATED SHUT-OFF AND WITH APPROVED MIXING VALVE. SPECIFICATION BY ARCHITECT, SEE ARCHITECTURAL PLANS
I	BATH TUB	2"	2"	2"	3/4"	3/4"	W/INTEGRATED SHUT-OFF AND WITH APPROVED MIXING VALVE. SEE ARCHITECTURAL PLANS FOR SPECIFICATIONS.
<u>HB</u>	HOSE BIBB	_	_	_	3/4"	1	W/ VACUUM BREAKER. SEE ARCHITECTURAL PLANS FOR SPECIFICATIONS.
<u>FS</u>	FLOOR SINK	2"	1 1/2"	1 1/2"	-	1	W/ TRAP PRIMER. SEE ARCHITECTURAL PLANS FOR SPECIFICATIONS.
<u>FD</u>	FLOOR DRAIN	2"	1 1/2"	1 1/2"	_	ı	W/ TRAP PRIMER. SEE ARCHITECTURAL PLANS FOR SPECIFICATIONS.
PRV-1	PRESSURE REDUCING VALVE	_	_	_	_	-	2" PRV MODEL WILKINS 500XLYSBR FOR MAIN HOUSE. PRV SHALL BE LEAD FREE. PRV SHALL BE SET AT 80 PSI FOR PROTECTION ONLY.

	SHEET INDEX
P0.1	SCHEDULE, NOTES & LEGEND
P0.2	SCHEDULE, NOTES & LEGEND
P1.0	SITE PLAN
P2.0	ROOF PLAN
P3.0	PENTHOUSE LEVEL (WATER & GAS)
P3.1	PENTHOUSE LEVEL (WASTE & VENT)
P4.0	ENTRY LEVEL (WATER & GAS)
P4.1	ENTRY LEVEL (WASTE & VENT)
P5.0	MEZZANINE LEVEL (WATER & GAS)
P5.1	MEZZANINE LEVEL (WASTE & VENT)
P6.0	LIVING ROOM LEVEL (WATER & GAS)
P6.1	LIVING ROOM LEVEL (WASTE & VENT)
P7.0	BASEMENT LEVEL (WATER & GAS)
P7.1	BASEMENT LEVEL (WASTE & VENT)
P8.0	COLD WATER RISER DIAGRAM
P8.1	HOT WATER & GAS RISER DIAGRAM
P8.2	WASTE & VENT RISER DIAGRAM
P9.0	DETAIL SHEET
P9.1	DETAIL SHEET

	SEWER	FIXTURE	COUNT
NO.	FIXTURE	FU	TOTAL F
5	<u>WC</u>	3.0	15.0
6	<u>L</u>	1.0	6.0
1	<u>BT</u>	2.0	2.0
1	<u>JAC</u>	2.0	2.0
4	<u>SH</u>	2.0	8.0
1	<u>IS/DW</u>	2.0	2.0
3	<u>w</u>	3.0	3.0
1	SPA	2.0	2.0
1	<u>FS</u>	2.0	2.0
7	<u>FD</u>	2.0	14.0
			56.0 FU

<u>N</u> [	<u>J. FIXTURE</u>	FU	TOTAL FU					
5	<u>WC</u>	2.5	12.5					
6	<u>L</u>	1.0	6.0					
3	<u>SH</u>	2.0	6.0					
1	<u>MSH</u>	2.0	2.0					
1	<u>BT</u>	4.0	4.0					
1	<u>JAC</u>	10.0	10.0					
1	<u>IS</u>	1.5	1.5					
1	<u>DW</u>	1.5	1.5					
1	<u>w</u>	4.0	4.0					
1	<u>HB</u>	2.5	2.5					
		TOTA	AL FU = 50.0					
<u> </u>								
COLD WATER DESIGN REQUIREMENTS								

WATER FIXTURE COUNT

(A) PRESSURE AVAILABLE MINIMUM 70 PSI, MAXIMUM 9	N I S 90 PSI	
(B) TOTAL FIXTURE UNIT FLUSH TANK 51.0 F.U.  (C) WATER DEMAND: 1. DOMESTIC  2. MAKE UP AIR UNITS.  3. TOTAL	30 0 30	GPM GPM GPM
(D) RESIDUAL PRESSURE REQUIRED AT FARTHEST OUTLET:		
( )	3.66	
(F) PRESSURE LOSS THRU WATER SOFTNER:	15	
(G) PRESSURE LOSS THRU — BACK FLOW PREVENTER  (H) PRESSURE LOSS THRU 2" WATER METER:	N/A 0	
<ul><li>(H) PRESSURE LOSS THRU 2" WATER METER:</li><li>(I) PRESSURE LOSS THRU 2" PRESSURE REDUCING STATION (SET © 70 PSI):</li></ul>		
(J) TOTAL PRESSURE LOSS FROM ABOVE (ITEMS D THRU I):	53.66	PSI
(6) 101/12 11/2000/12 2000 11/0/1/2002 (11/2/1/2007)	00.00	
(K) PRESSURE AVAILABLE:	70.0	
(L) PRESSURE AVAILABLE FOR FRICTION LOSS (K MINUS J):	16.34	PSI
•	55 275	FT. FT.
COLD WATER SIZING		
PIPE SIZES BASED ON TYPE "L" COPPER @ 5.9 PSI/100 FT, 8 F	PS MAX	IMUM.
FIXTURE UNITS FIXTURE UNITS		
•		
FIXTURE UNITS FIXTURE UNITS		
FIXTURE UNITS  FT.  FT.  FT.		
FIXTURE UNITS  FT. $1/2$ "= 0  FIXTURE UNITS  FT. $1/4$ "= 39		
FIXTURE UNITS       FIXTURE UNITS         FT.       FT. $1/2" = 0$ $1 1/4" = 39$ $3/4" = 8$ $1 1/2" = 78$ $1" = 20$ $2" = 254$		
FIXTURE UNITS  FI.  1/2"= 0  1 1/4"= 39  3/4"= 8  1 1/2"= 78  1" = 20  HIT WATER SIZING	PS MAY	IMIM
FIXTURE UNITS       FIXTURE UNITS         FT.       FT. $1/2" = 0$ $1 1/4" = 39$ $3/4" = 8$ $1 1/2" = 78$ $1" = 20$ $2" = 254$	PS MAX	IMUM.
FIXTURE UNITS  FI.  1/2"= 0  1 1/4"= 39  3/4"= 8  1 1/2"= 78  1" = 20  2" = 254  HIT WATER SIZING  PIPE SIZES BASED ON TYPE "L" COPPER © 5.9 PSI/100 FT, 5 F	PS MAX	IMUM.
FIXTURE UNITS  FIX.  FT.  1/2"= 0  1 1/4"= 39  3/4"= 8  1 1/2"= 78  1" = 20  2" = 254  HIT WATER SIZING  PIPE SIZES BASED ON TYPE "L" COPPER © 5.9 PSI/100 FT, 5 F  FIXTURE UNITS  FIXTURE UNITS	PS MAX	IMUM.

2" = 119

1" = 16

PLAN REVIEW ACCEPTANCE OR COMPLIANCE WITH THE APPLICABLE MECHANICAL PLUMBING XELECTRICAL XENERGY ACCESSIBILITY FIRE MEM

ST COAST CODE CONSULTANTS, II

#### GENERAL NOTES

- CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND DEPTH OF EXISTING LINES, LATERALS AND WYES BEFORE STARTING. SHOULD IT BE NECESSARY TO REROUTE LINES DUE TO CONDITIONS FOUND ON THE THE SITE OR IF INDICATED POINTS OF CONNECTIONS CANNOT BE MADE TO THE LINES AS FOUND, THE CONTRACTOR SHALL, BEFORE CONTINUING, NOTIFY THE ARCHITECT PRIOR TO INSTALLING ANY WORK WHICH MAY BE AFFECTED.
- . PLUMBING DRAWINGS AND LAYOUTS ARE DIAGRAMMATIC TO SHOW DESIGN INTENT AND FINISHED CONDITIONS CONTRACTOR SHALL COORDINATE PIPING WITH EXISTING CONDITIONS. IF FIELD CONDITIONS DIFFER SIGNIFANTLY FROM THOSE SHOWN ON THE DRAWINGS AND AFFECT PLUMBING WORK, INFORM ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH THAT AREA.
- 3. INSTALL SHUT-OFF VALVES AT EACH COLD AND HOT WATER SUPPLY BRANCH RISER.
- 4. INSTALL WATER HAMMER ARRESTERS ON EACH COLD AND HOT WATER FIXTURE BRANCH AS RECOMMENDED BY PLUMBING AND DRAINAGE INSTITUTE WH-210 STANDARD. DEVICES SHALL BE FACTORY MADE WITH PERMANENT CUSHION OF GAS OR AIR. PROVIDE ACCESS PANEL. (OR APPROVED ON-SITE FABRICATED WATER HAMMER ARRESTOER)
- 5. a) SEWER, WASTE, STORM DRAIN AND VENT PIPES TO BE CAST IRON, NO HUB, AND AS SPECIFIED. b) HOT AND COLD WATER TO BE COPPER TYPE "L" FOR ABOVE GRADE AND TYPE "K" FOR BELOW GRADE AND AS SPECIFIED.

c) CONDENSATE PIPE TO BE COPPER TUBING TYPE "M" FOR AIR CONDITIONING UNITS WITH

- 1/8" SLOPE PER FOOT. d) GATE VALVE SHALL BE BRONZE WITH ENDS TO SUITE PIPE, NON-RISING STEM FOR 150 PSI WORKING PRESSURE. e) GAS PIPE TO BE BLACK STEEL. SCHEDULE 40
- 6. PRIOR TO INSTALLATION OR FABRICATION OF ANY EQUIPMENT OR PIPING, PLUMBING CONTRACTOR TO PREPARE SHOP DRAWINGS SHOWING ALL BEAMS, FOOTINGS OR FOOTING STEMS PENETRATIONS, OPENINGS OR PIPE SLEEVES REQUIRED FOR PLUMBING INSTALLATIONS. SUBMIT SHOP DRAWINGS TO GENERAL CONTRACTOR AND ARCHITECT FOR COORDINATION 30 DAYS PRIOR TO POURING OF FOOTINGS AND GRADE BEAMS. SHOP DRAWING INFORMATION SHALL INCLUDE:
- a. ELEVATIONS, SIZES, LOCATIONS AND NUMBER OF PIPE SLEEVES, PENETRATIONS AND OPENINGS. 7. ALL WORK SHALL COMPLY WITH APPLICABLE LOCAL, STATE AND HEALTH CODES.
- 8. VENTS SHALL BE 10'-0" AWAY OR 3'-0" ABOVE A/C AIR INTAKES, WINDOW OR DOOR OPENINGS AND OSA INTAKE. 9. PROVIDE ACCESS PANELS IN WALLS OR CEILING FOR SHUT-OFF VALVES, TRAP PRIMERS AND WATER HAMMER ARRESTERS. CONTRACTOR IS ADVISED THAT ITEMS REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE AREAS OF GYPSUM BOARD CEILING WITHOUT CONSENT OF ARCHITECT. COORDINATE ACCESS PANEL LOCATION WITH ARCHITECT.
- 10. ALL PIPING SYSTEMS SHALL BE PRESSURE TESTED.
- 11. PROVIDE 1" THICK INSULATION FOR ALL CONDENSATE DRAIN LINES LOCATED ABOVE CEILING. 12. HORIZONTAL SEWER DRAINAGE PIPING SHALL HAVE A UNIFORM SLOPE OF NOT LESS THAN 2% TOWARD THE POINT OF DISPOSAL.
- 13. ALL CLEANOUTS SHALL BE ACCESSIBLE AND INSTALLED PER UPC SECTION 707.0 AND 719.0 14. PROVIDE TRAP ARM, TAIL PIECE AND HOT WATER PIPING PROTECTION FOR HANDICAP ACCESSIBLE SINKS AND LAVATORIES
- ALL SEWERS AND WATER PIPING SHALL BE PROPERLY TESTED TO THE SATISFACTION OF THE ARCHITECT AND THE LOCAL BUILDING INSPECTOR.
- 16. EXCAVATION AND BACK FILLING TRENCHES SHALL BE BACK FILLED IN 6" LIFTS & COMPACTED TO 30% MIN. DENSITY PER SOILS REPORT RECOMMENDATIONS. NO PIPE SHALL BE LESS THAN 12" BELOW FINISH GRADE.
- 17. THESE DRAWINGS ARE FOR BIDDING PURPOSE ONLY. THEY ARE ESSENTIALLY DIAGRAMMATIC TO THE EXTENT THAT MANY OFFSETS, BONDS, UNIONS, SPECIFIC FITTINGS AND EXACT LOCATIONS ARE NOT INDICATED.
- 18. SUBMITTALS AND SHOP DRAWINGS SHALL BE MADE. AS SOON AS POSSIBLE BUT WITHIN 21 DAYS AFTER AWARD OF THE CONTRACT, AND BEFORE PURCHASING MATERIALS, THE CONTRACTOR SHALL SUBMIT TO ARCHITECT 6 BOUND BOOKLETS FOR APPROVAL AND CONTAINING A COMPLETE LIST OF MATERIALS, SPECIALTIES AND EQUIPMENT TO BE FURNISHED FOR INSTALLATION. ALL SUBMITTALS SHALL BE MADE AT ONE TIME NO DEVIATION OF PLUMBING FIXTURES WILL BE ACCEPTED.
- 19. PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BASE BID. HE SHALL FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS AND FUTURE WORK TO BE DONE. HE SHALL INCLUDE ALL HIS SITE INFORMATION AND CONDITIONS WITHIN HIS BASE BID. HE SHALL BE RESPONSIBLE FOR COMPLETE AND FULLY FUNCTIONING PLUMBING SYSTEMS.
- 20. PLUMBING CONTRACTOR SHALL COORDINATE COMPLETE PLUMBING INSTALLATION AND REQUIREMENTS PRIOR TO BASE BID WITH ALL LOCAL DISTRICTS AND GOVERNING AUTHORITIES. INCLUDE ALL FINDINGS WITHIN THE BASE BID 21. ALL PLUMBING SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL
- EQUIPMENT AND STRUCTURAL FRAMING. 22. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING ACCESS PANELS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELECTRICAL LIGHTING PLAN.
- 23. CONNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH TWO DIELECTRIC UNIONS SEPARATED BY A 12" SECTION OF RED BRASS PIPE 24. CONTRACTOR SHALL PROVIDE ALL VALVES, GAS COCKS, BACKFLOW PREVENTION DEVICES AND
- INDIRECT WASTE LINES AS REQUIRED. 25. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATION OF EQUIPMENT, CABINET, ETC., WITH THE ARCHITECT PRIOR TO ANY INSTALLATION. 26. HOT WATER PIPE INSULATION MUST BE BASED ON INSULATION OF R VALUES BETWEEN 4.0 AND 4.6.
- a) AT 1" OR SMALLER PIPES, 1" INSULATION THICKNESS. b) AT 1 1/4" TO 6" PIPES, 1 1/2" INSULATION THICKNESS.
- 27. COLD WATER PIPE SHALL BE INSULATED USING 1" THICK INSULATION. 28. CONTRACTOR SHALL COORDINATE WITH GAS COMPANY FOR LOCATION OF GAS METERS.
- 29. CONTRACTOR SHALL COMPLY WITH ALL THE SOUND CONSULTANT REQUIREMENTS. OBTAIN A SOUND CONSULTANT REQUIREMENT PACKAGE FROM OWNER PRIOR TO BID. 30. PROVIDE CLEANOUT EVERY 100' AND AT EVERY 90° BEND FOR THE SUB-SURFACE DRAIN.
- 31. PROVIDE CLEANOUT WHERE THE PIPE SIZE INCREASES IN THE HORIZONTAL SEWER & STORM DRAIN
- 32. PRIOR TO PIPING FABRICATION, EQUIPMENT INSTALLATION OR PIPE INSTALLATION, PLUMBING CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND CEILING CLEARANCES AND PROVIDE COMPLETE SHOP DRAWINGS. OBTAIN APPROVAL FOR SHOP DRAWING FROM ARCHITECT/ENGINEER. PIPE MAY BE RE-ROUTED IN ORDER TO MAINTAIN REQUIRED SPACE, VERIFY WITH ENGINEER. NO EXTRA COST IS ALLOWABLE FOR LACK OF COORDINATION AFTER SHOP DRAWINGS ARE SUBMITTED.
- 33. SITE INSPECTION: CONTRACTORS SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF HIS BID AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE WORKING CONDITIONS AND EXACT 34. 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
- 35. CONTRACTOR SHALL PROVIDE SHOP DRAWING FOR BEAM PENETRATION FOR STRUCTURE ENGINEER APPROVAL PRIOR TO ANY PIPE FABRICATION AND INSTALLATION.
- 36. INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 118 ENERGY EFFICIENCY STANDARDS (E.E.S.)
- 37. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT. ( OTHER THAN THOSE LISTED IN INFORMATION BULLETIN 103).
- 38. COMBUSTION AIR FOR FUEL BURNING WATER HEATER WILL BE PROVIDED IN ACCORDANCE WITH UPC SECTION 507 AND TABLE 5-1.
- 39. COORDINATE WITH ARCHITECT FOR FIXTURES SPECIFICATION

FAILURE TO THOROUGHLY MAKE THE EXAMINATION.

SIMBUL	ADDREV.	DESCRIPTION
	S. OR W.	SOIL OR WASTE ABOVE FLOO
	S. OR W.	SOIL OR WASTE BELOW FLOO
— SD—	S.D.	STORM DRAIN
— OD—	0.D.	OVERFLOW DRAIN
	V.	VENT
	C.W.	COLD WATER
		· · · · · - · ·
	H.W.	HOT WATER
···	H.W.R.	HOT WATER RETURN
— IW —	I.W.	INDIRECT WASTE
— F—	F.	FIRE LINE
— G—	G.	GAS LINE LOW PRESSURE
<b>D</b>	F.C.O.	FLOOR CLEANOUT
-	W.C.O.	WALL CLEANOUT
1		
	H.B.	HOSE BIBB
$-\!$	S.O.V.	SHUT-OFF VALVE
<u> </u>	G.L.V.	GLOBE VALVE
<b>──</b> ₩──	B.C.	BALANCING COCK
~~	CH.V.	CHECK VALVE
	P.R.V.	PRESSURE REDUCING VALVE
	P.REL.V.	PRESSURE RELIEF VALVE
—————————————————————————————————————	P.T.R.V.	PRESS. TEMP. RELIEF VALVE
<u> </u>		
	G.C.	GAS COCK
<u>O</u> +	DN.	DOWN
O+		RISE
— CD—		CONDENSATE DRAIN
	A.B.	ACCESS BOX
	A.P.	ACCESS PANEL
	BEL.	BELOW
	B.F.P.	BACKFLOW PREVENTER
	C.F.H.	CUBIC FEET PER HOUR
		CAST IRON
	C.I.	
	CLG.	CEILING
	CONT.	CONTINUATION
	C.O.T.G.	CLEANOUT TO GRADE
	D.S.	DOWNSPOUT
	E.	PREFIX "E" DENOTES EXIST.
	EXIST.	EXISTING
	FLR.	FLOOR
	FIN.FLR.	FINISHED FLOOR
	FIN.GR.	
		FINISHED GRADE
	F.U.	FIXTURE UNIT
	G.H.V.	GARDEN HOSE VALVE
	G.P.M.	GALLONS PER MINUTE
	G.P.H.	GALLONS PER HOUR
	HDR.	HEADER
	I.E.	INVERT ELEVATION
	M.H.	MANHOLE
	N.I.C.	NOT IN CONTRACT
	V.T.R.	VENT THRU ROOF
	W.H.A.	WATER HAMMER ARRESTER
<b>•</b>	P.O.C.	NEW AND EXISTING
	PD	PLANTER DRAIN
	OD	OVERFLOW DRAIN
	SD	STORM DRAIN
	RD	ROOF DRAIN
F.S.	F.S.	FLOOR SINK
F.D.	F.D.	FLOOR DRAIN
	TP	TRAP PRIMER
TP	1 ''	1104   1400
D.D.	D.D.	DECK DRAIN

PLUMBING LEGEND

DESCRIPTION

SYMBOL | ABBREV.

### PIPE RISER LEGEND

= COLD WATER RISER



= HOT WATER RETURN RISER

= GAS RISER

SANITARY WASTE RISER

= VENT RISER

### POWDER MOUNTAIN HOUSE TOM BUTTGENBACH 8645 EASET COPPER CREST EDEN, UT 84310

818) 788-6778

WWW.SHAMIMENGINEERING.COM

**TOM WISCOMBE ARCHITECTURE** 

2404 WILSHIRE BLVD., SUITE 4B

LOS ANGELES, CA 90057

WWW.TOMWISCOMBE.COM

(213) 674-7238

STRUCTURAL ENGINEER: 527 W 7TH STREET OS ANGELES, CA 90014

(801) 743-1300

WWW.TALISMANCIVIL.COM

13) 627-6687

WWW.NOUSENGINEERING.COM

TALISMAN SHAMIN 17 SOUTH STATE STREET MURRAY, UT 84107

530 CORBIN AVE. SUITE 300 ARZANA, CA 91356

GLENDALE, CA

(123) 456-7894

WWW.ABRARI.COM

ARGENTO/GRAHAM B11 WEST 7TH STREET, 10TH FLOOR OS ANGELES, CA 90017 (323) 536-2578 (801) 270-9400

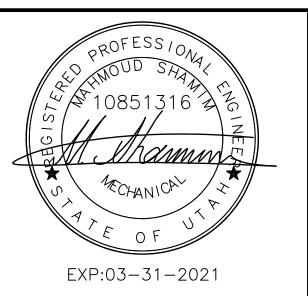
WWW.ARGENTOGRAHAM.COM

WWW.IGESINC.COM

'02 SOUTH 1030 WEST SUITE 10 28 W 200 S SUITE 102 OUTH SALT LAKE, UT 84020 SALT LAKE CITY, UT 84101 (801) 583-1295

LIGHTING DESIGNER: KGM 328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1295

WWW.KGMLIGHTING.COM



#### SCHEDULES, NOTES, & LEGEND |REVISIONS: |BY: | DATE: | DATE: 02/15/2019

SCALE: DRAWN: AS SHOWN G.F. SHEET:

PUMP SCHEDULE														
	1 0 1 1 1 1			CATAL	OG DATA	SELE	CTION	DISCHARGE	BASIN SIZE		MO	TOR	OPFR	
SYMBOL	SERVICE	LOCATION	TYPE	MANUFACTURER	MODEL TYPE	FLOW (GPM)	HEAD	PIPE SIZE (IN)	(DIA.xH)		RPM	VOLT/PH/HZ	OPER. WEIGHT EACH (LBS)	REMARK
SE 1,2	BASEMENT SEWAGE	BASEMENT	DUPLEX SEWAGE EJECTOR	ZOELLER	4293	42	40	2"	48"x60"	1	3450	230/1/60	96	1234
							-					-		

(6) PROVIDE PUMP RAIL REMOVAL SYSTEM.

2 2" CAST IRON-UNICHECK VALVE FEMALE N.P.T. ENDS

(3) VERIFY VOLTAGE & PHASE WITH ELECTRICAL ENGINEER/CONTRACTOR.

	PIPE MATE	RIAL SCH	EDULE	
SERVICE	PIPE	FITTINGS	LOCATION	REMARKS
WASTE & VENT WASTE	CAST IRON HUBLESS	CAST IRON HUBLESS ABS	ABOVE GRADE BELOW GRADE/ CRAWL SPACE	
HOT AND COLD WATER	COPPER TYPE "L" HARD DRAWN	WROUGHT COPPER	ABOVE GRADE	
COLD WATER	COPPER TYPE "K" HARD DRAWN	WROUGHT COPPER	BELOW GRADE	
CONDENSATE DRAIN	COPPER TYPE "M" HARD DRAWN	WROUGHT COPPER	ABOVE GRADE	
ROOF DRAIN	CAST IRON HUBLESS	CAST IRON HUBLESS	ABOVE GRADE BELOW GRADE	
OVERFLOW DRAIN	ABS	ABS	ABOVE GRADE	
GAS	BLACK STEEL SCH. 40 YELLOW POLY PIPE	MALLABLE IRON YELLOW POLY PIPE	ABOVE GRADE BELOW GRADE	OBTAIN APPROVAL FROM INSPECTOR FOR THE USE OF YELLOW POLY PIPE PIPE OUTSIDE THE BLDG.
PUMP DISCHARGE	PVC SCH40	PVC SCH40	ABOVE GRADE BELOW GRADE	

NOTE: ALL MATERIALS SHALL BE IAPMO LISTED OR LEAD FREE.

#### PIPING SOUND ISOLATION NOTES

1. FOR SUPPLY WATER PIPING 1" DIAMETER OR SMALLER, USE THE "ACOUSTO-PLUMB" SYSTEM OF ORANGE AND BLUE PLASTIC PIPE ISOLATORS, HOLDERS, AND GUIDES AS MANUFACTURED BY "SPECIALTY PRODUCTS" COMPANY OR EQUAL

MOST COMMONLY USED ISOLATORS BY "SPECIALTY PRODUCTS":

- A. TYPE "AE" CHROME OR PLASTIC SCUTCHEON, "ACOUSTO—SCUTCHEON".
  B. TYPE "AC" ISOLATED CLAMP WITH SCREW ATTACHMENT, "ACOUSTO—CLAMP."
  C. TYPE "AL" ISOLATED SPLITTED PIPE SLEEVE, "ACOUSTO—LATOR."
- D. TYPE "AS" ISOLATED PIPE SLEEVE. "ACOUSTO-SLEEVE".
- 2. ISOLATE WASTE PIPES AND SUPPLY WATER PIPES MORE THAN 1" IN DIAMETER WITH THE "STONEMAN TRISOLATOR SYSTEM" OF PIPE ISOLATORS, AS MANUFACTURED BY "STONEMAN ENGINEERING AND MANUFACTURING" OR EQUAL.
- 3. USE ISOLATED PIPE CLEVIS HANGER, SIMILAR TO "TOLCO" CLEVIS HANGER WITH FELT LINING.
- 4. THIN-WALLED COPPER WASTE AND DRAIN PIPING MUST BE COMPLETELY WRAPPED USING ACOUSTICAL PIPE WRAP.
- 5. DO NOT ALLOW THE PIPING, PIPE CONNECTORS, PIPE HANGERS, OR VALVES TO DIRECTLY TOUCH THE STRUCTURE, STUDS, GYPSUM BOARD, OR OTHER PIPES.
- 6. INSTALL 3-1/2" BATT INSULATION IN OTHERWISE UNINSULATED STUD AND JOIST SPACES CONTAINING WATER PIPING.
- 7. DO NOT LOCATE SUPPLY OR WASTE WATER PIPES CLOSER THAN 2" FROM GYPSUM BOARD IN WALLS OR CEILINGS OF ACOUSTICALLY SENSITIVE ROOMS, SUCH AS LIVING ROOMS, DINNING ROOMS AND BEDROOMS.
- 8. IN NO CASE SHOULD THE PLUMBING PIPING OF ONE UNIT BE CLOSER THAN 1" OF ANOTHER UNIT. 9. NO STRAP HANGERS, PUNCHED TAPE OR WIRES WILL BE ACCEPTED.
- 10.BRANCH WATER PIPING IN PARTITIONS AND CHASES SHALL BE ADEQUATELY SUPPORTED USING SPECIFIED HANGERS AND CLAMPS. PROVIDE NECESSARY STEEL BACKING PLATES OR CHANNELS ANCHORED TO STUDS, FLOORS, OR PLUMBING VENTS, IN AN APPROVED MANNER. ISOLATE PIPING FROM STRUCTURE AND OTHER PIPING AND BUILDING COMPONENTS WITH "ACOUSTO-PLUMB" PRODUCTS.

PLAN REVIEW ACCEPTANCE FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW MECHANICAL PLUMBING XELECTRICAL XENERGY ACCESSIBILITY FIRE PLAN REVIEW ACCEPTANCE OF DOCUMENT DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS. EST COAST CODE CONSULTANTS, IN

## POWDER MOUNTAIN HOUSE TOM BUTTGEN BACH 8645 EASET COPPER CREST EDEN, UT 84310

**TOM WISCOMBE ARCHITECTURE** 2404 WILSHIRE BLVD., SUITE 4B LOS ANGELES, CA 90057

(213) 674-7238

WWW.TOMWISCOMBE.COM

STRUCTURAL ENGINEER: 1000 527 W 7TH STREET LOS ANGELES, CA 90014 13) 627-6687

WWW.TALISMANCIVIL.COM

WWW.NOUSENGINEERING.COM

TALISMAN SHAMIN 217 SOUTH STATE STREET 530 CORBIN AVE. SUITE 300 MURRAY, UT 84107 TARZANA, CA 91356 (801) 743-1300 818) 788-6778

WWW.SHAMIMENGINEERING.COM

GLENDALE, CA (123) 456-7894

WWW.ABRARI.COM

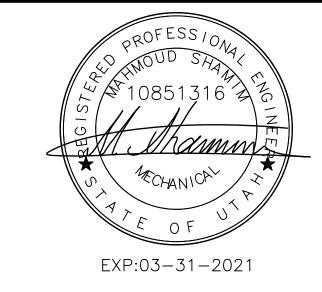
ARGENTO/GRAHAM B11 WEST 7TH STREET, 10TH FLOOR LOS ANGELES, CA 90017 (323) 536-2578

WWW.ARGENTOGRAHAM.COM

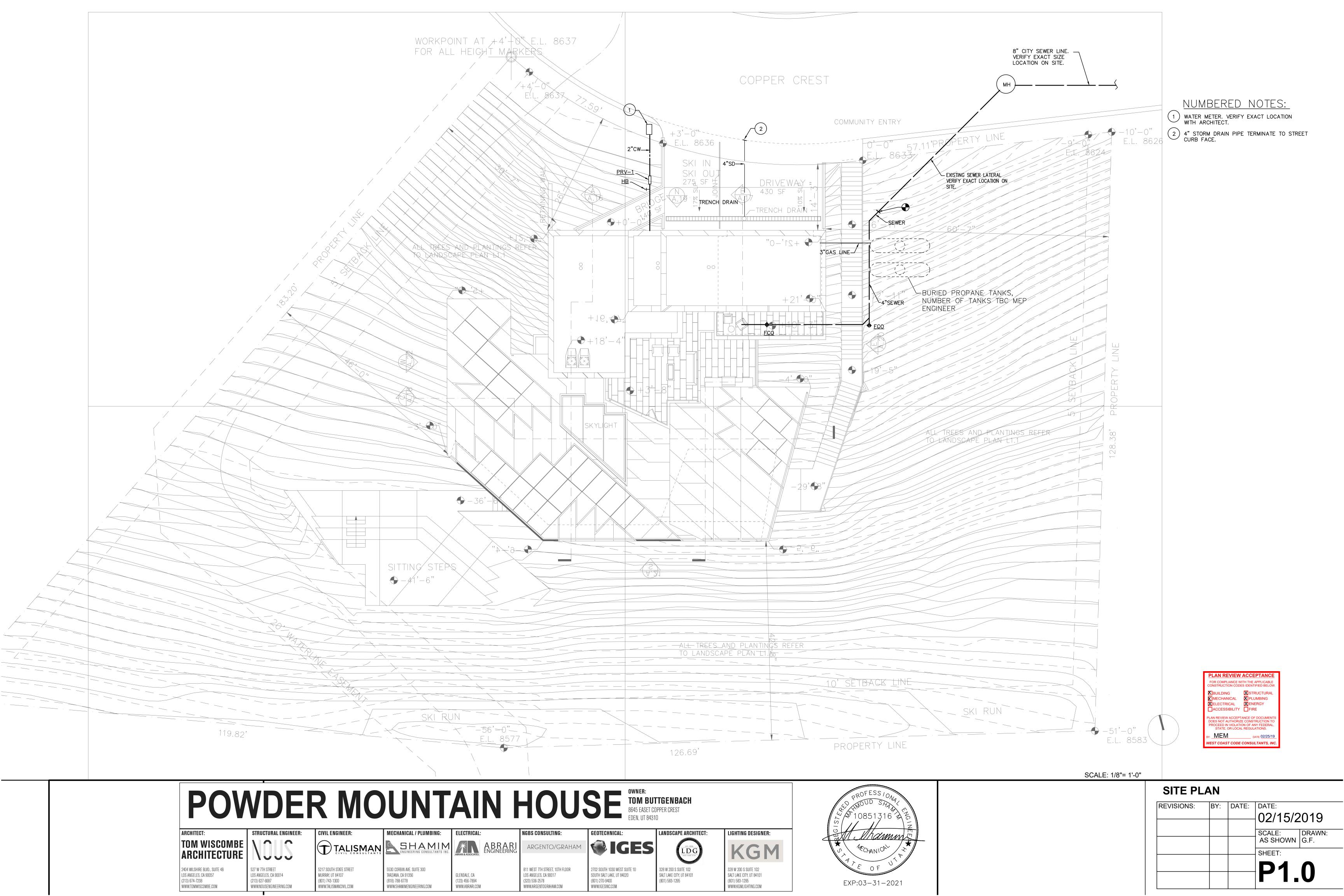
**GES** 2702 SOUTH 1030 WEST SUITE 10 328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 SOUTH SALT LAKE, UT 84020 (801) 270-9400 (801) 583-1295

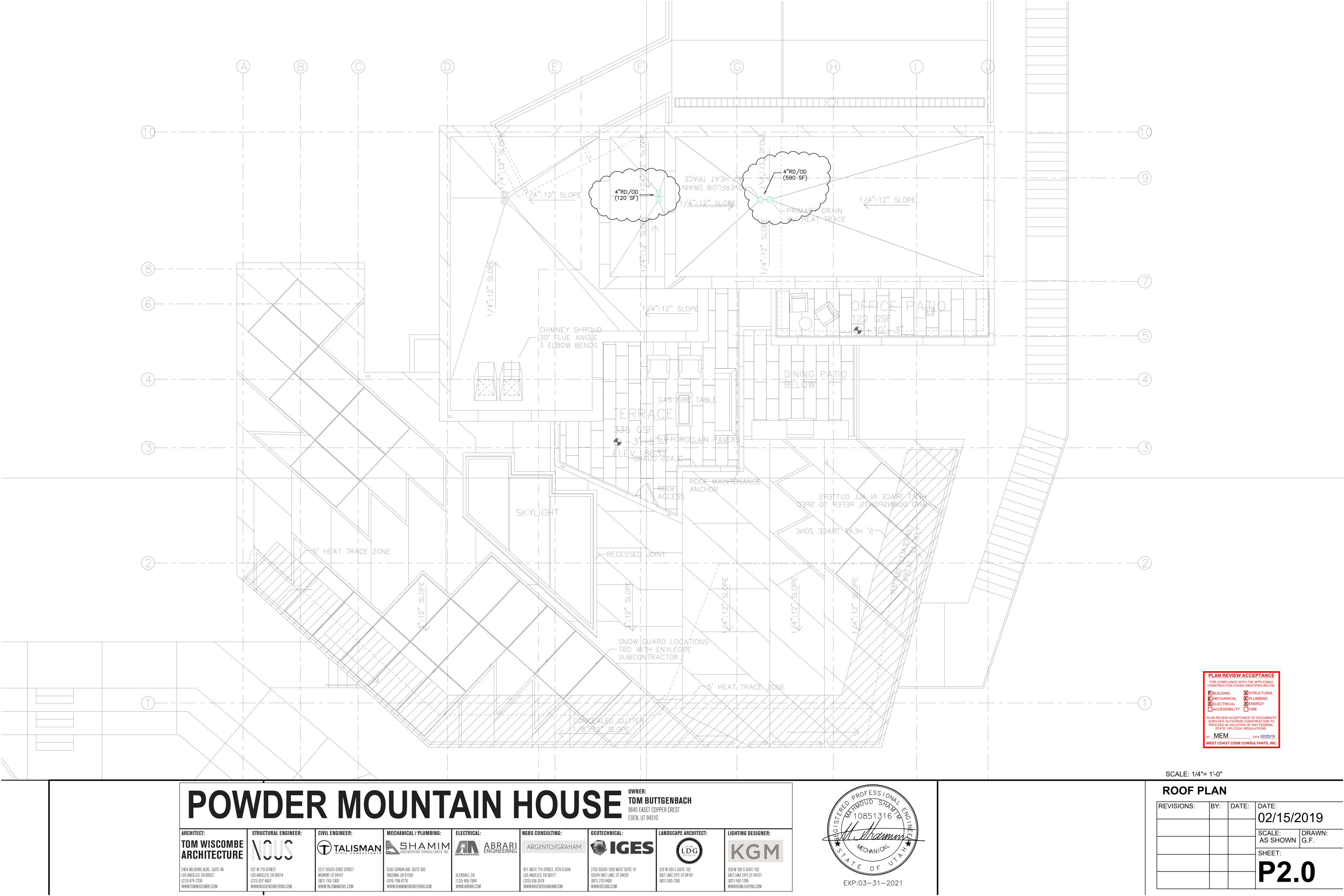
WWW.IGESINC.COM

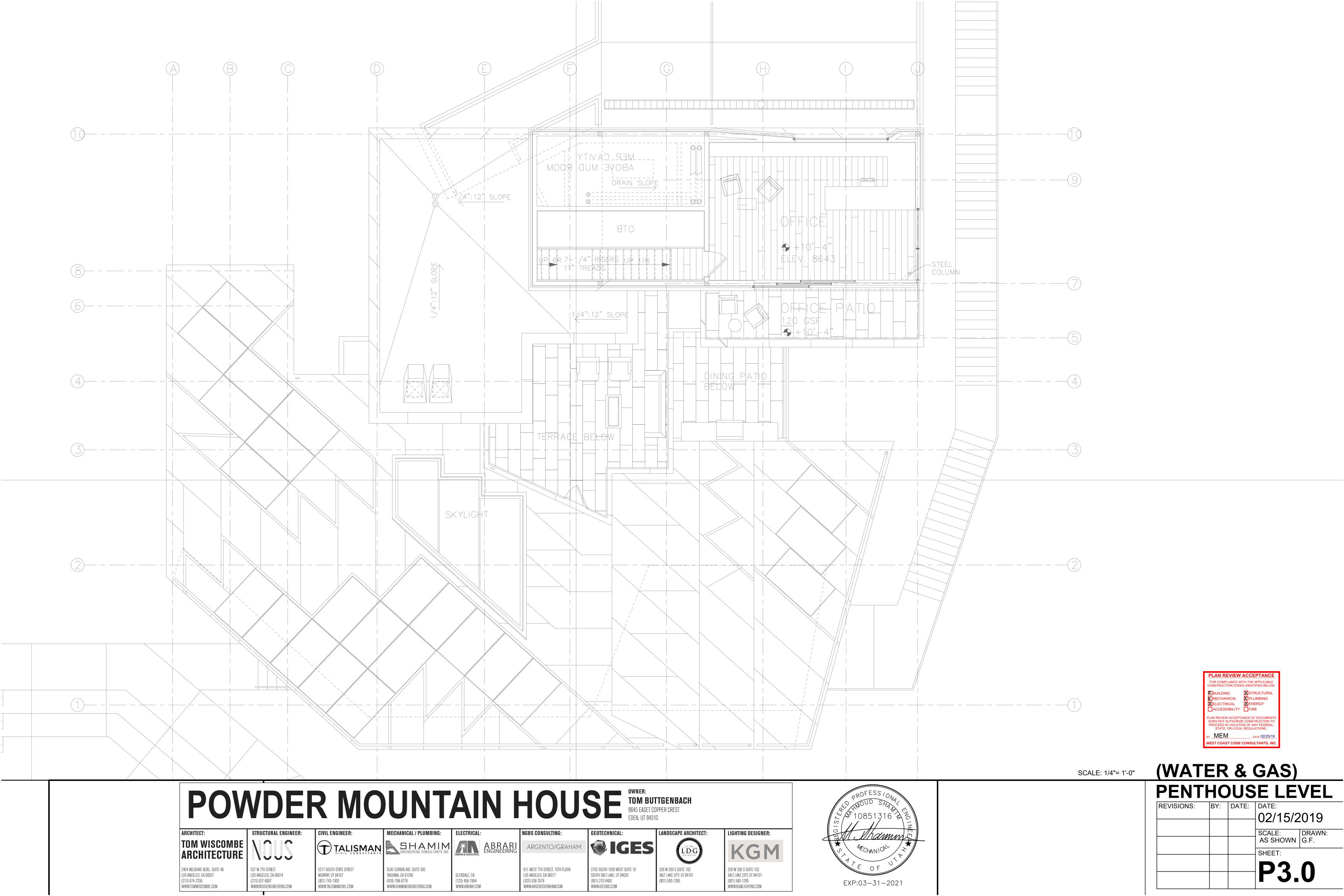
LIGHTING DESIGNER: KGM 328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1295 WWW.KGMLIGHTING.COM

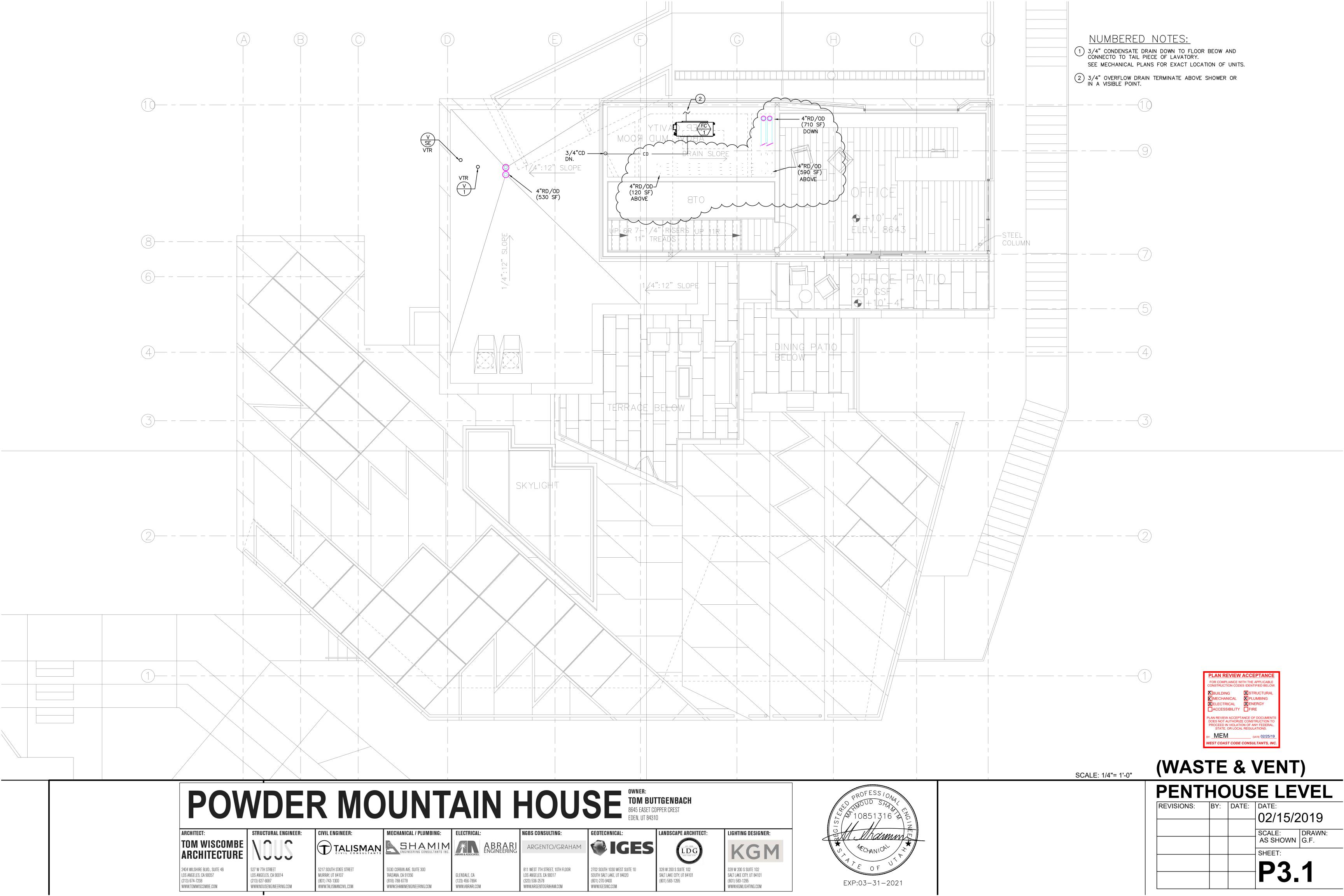


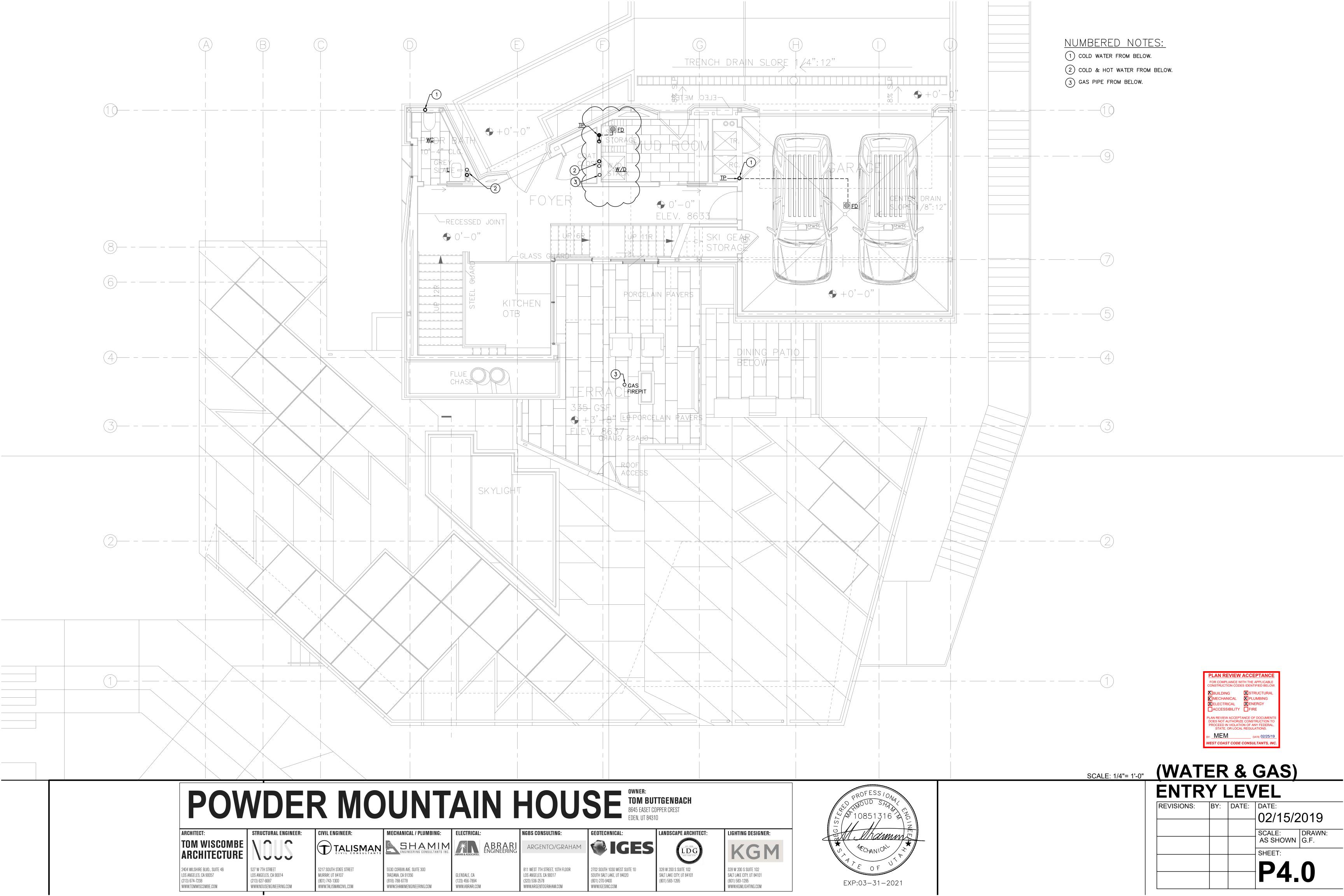
SCHEDULES, NOTES, & LEGEND **REVISIONS:** 02/15/2019 SCALE: DRAWN: AS SHOWN G.F. SHEET:

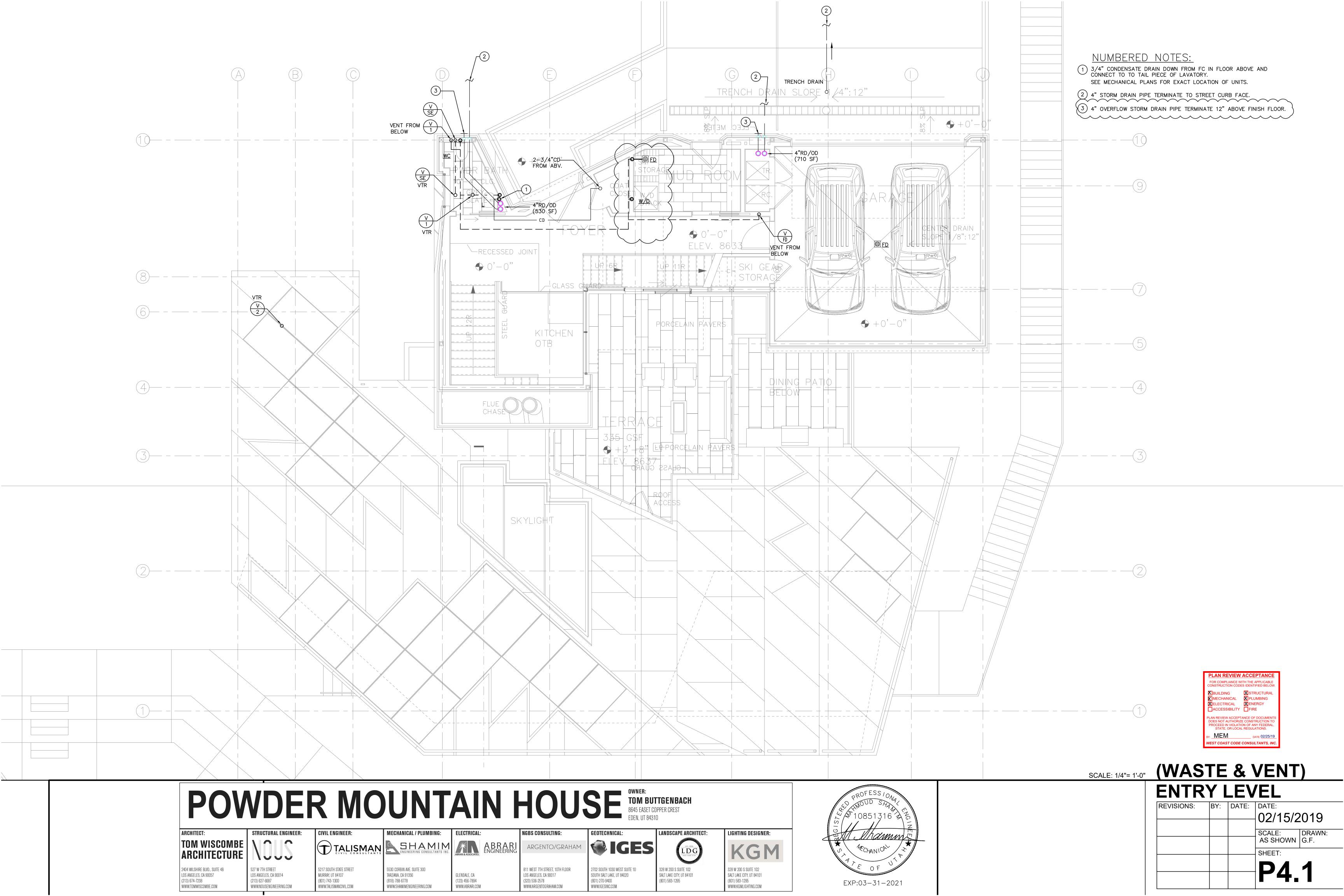


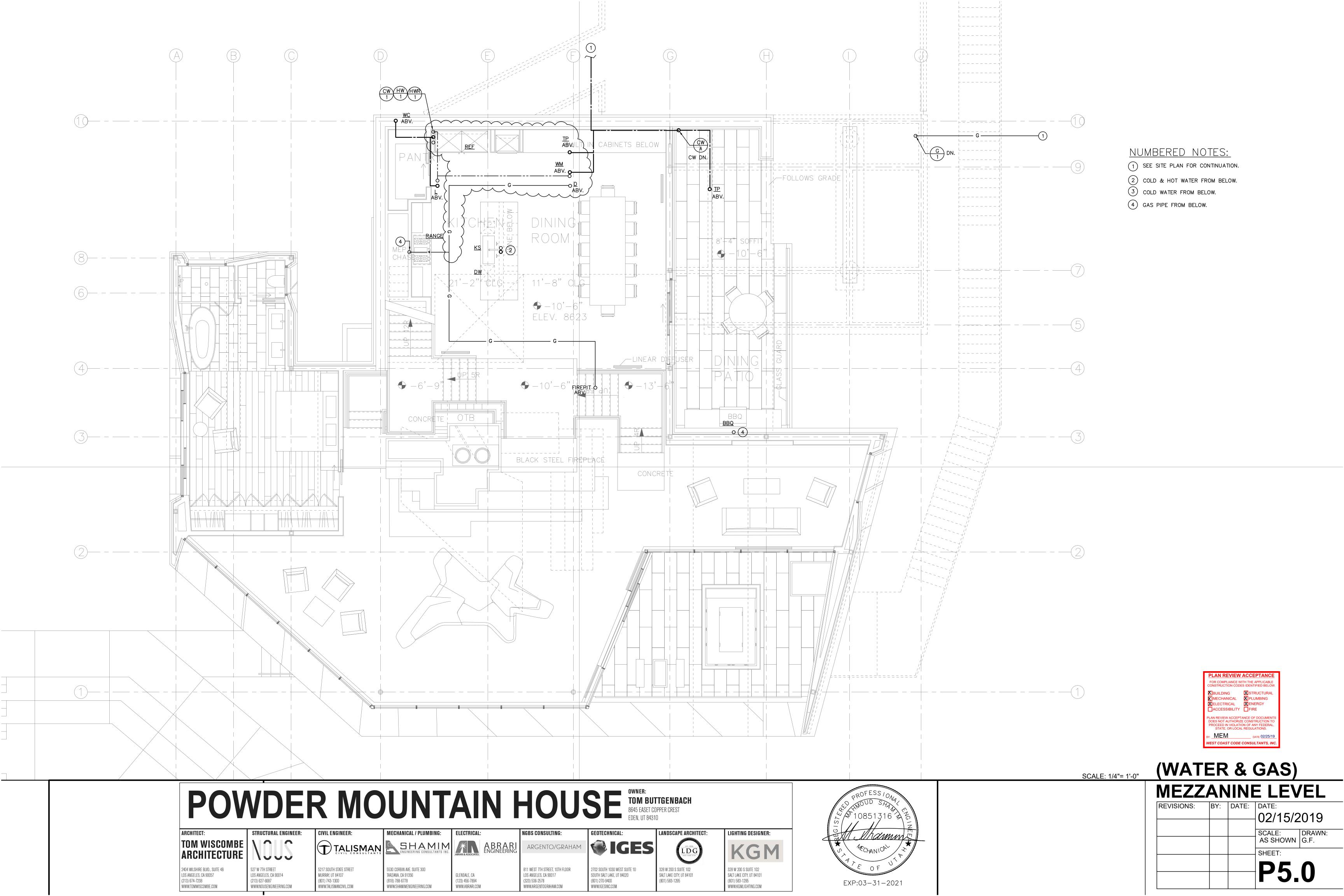


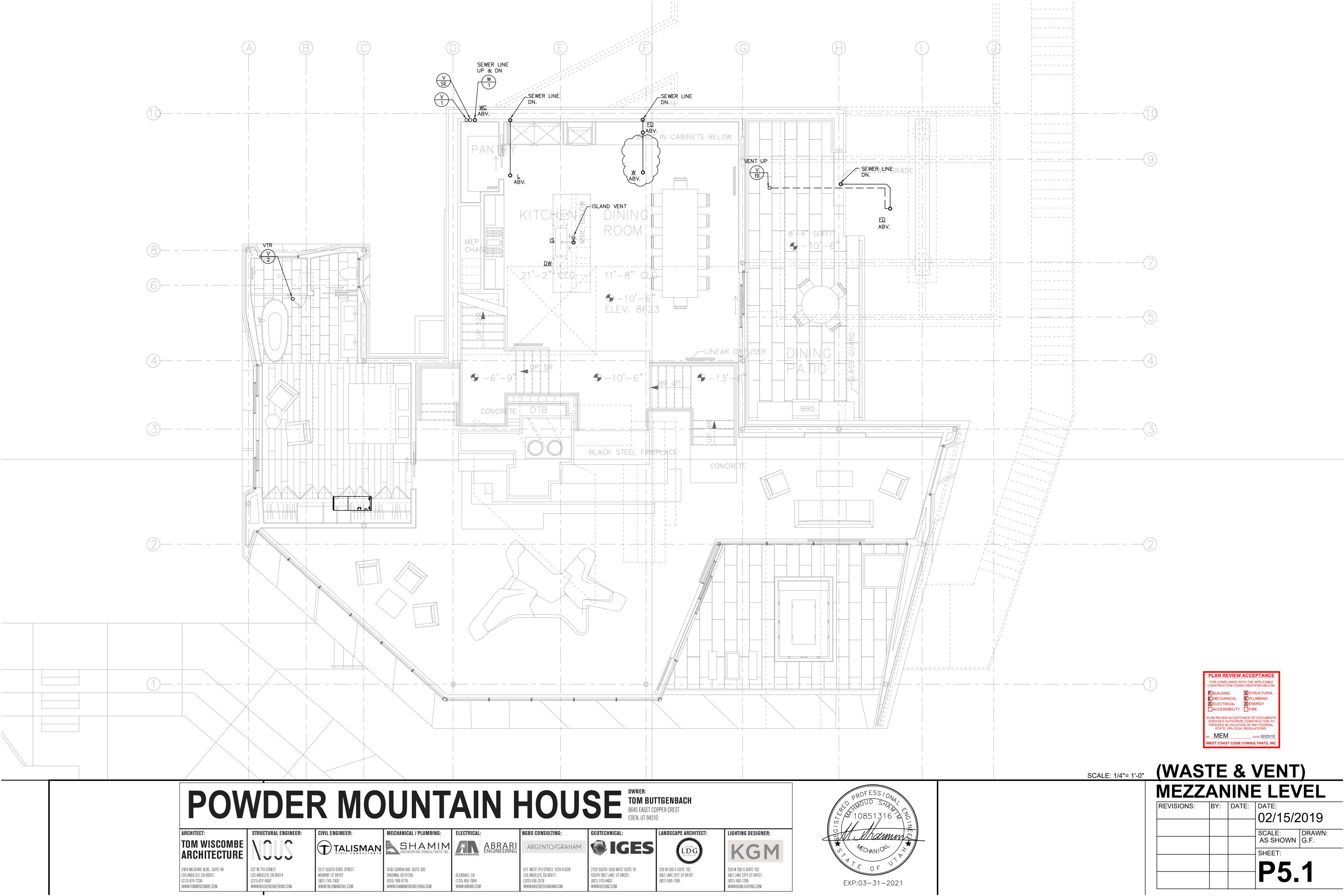


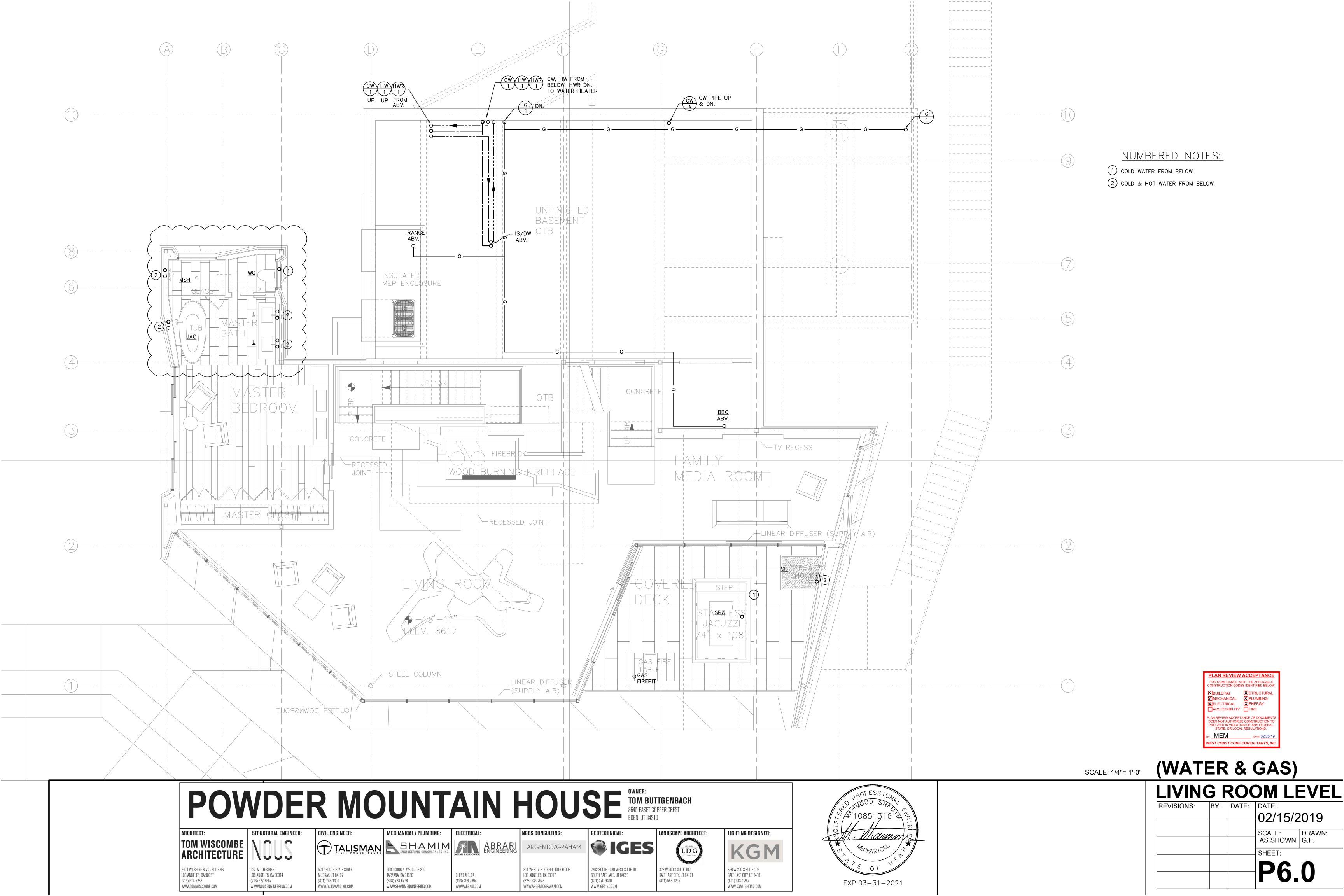


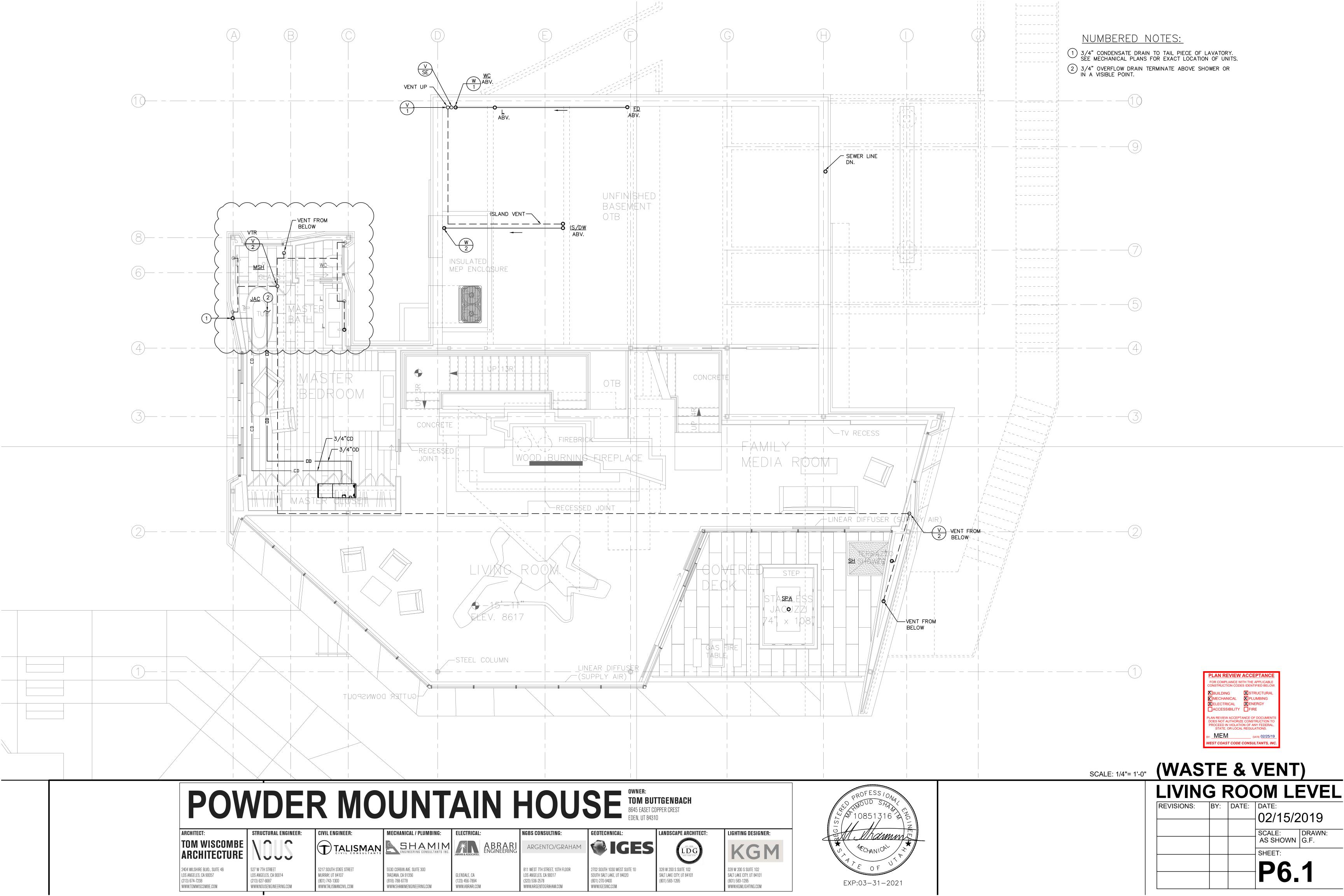


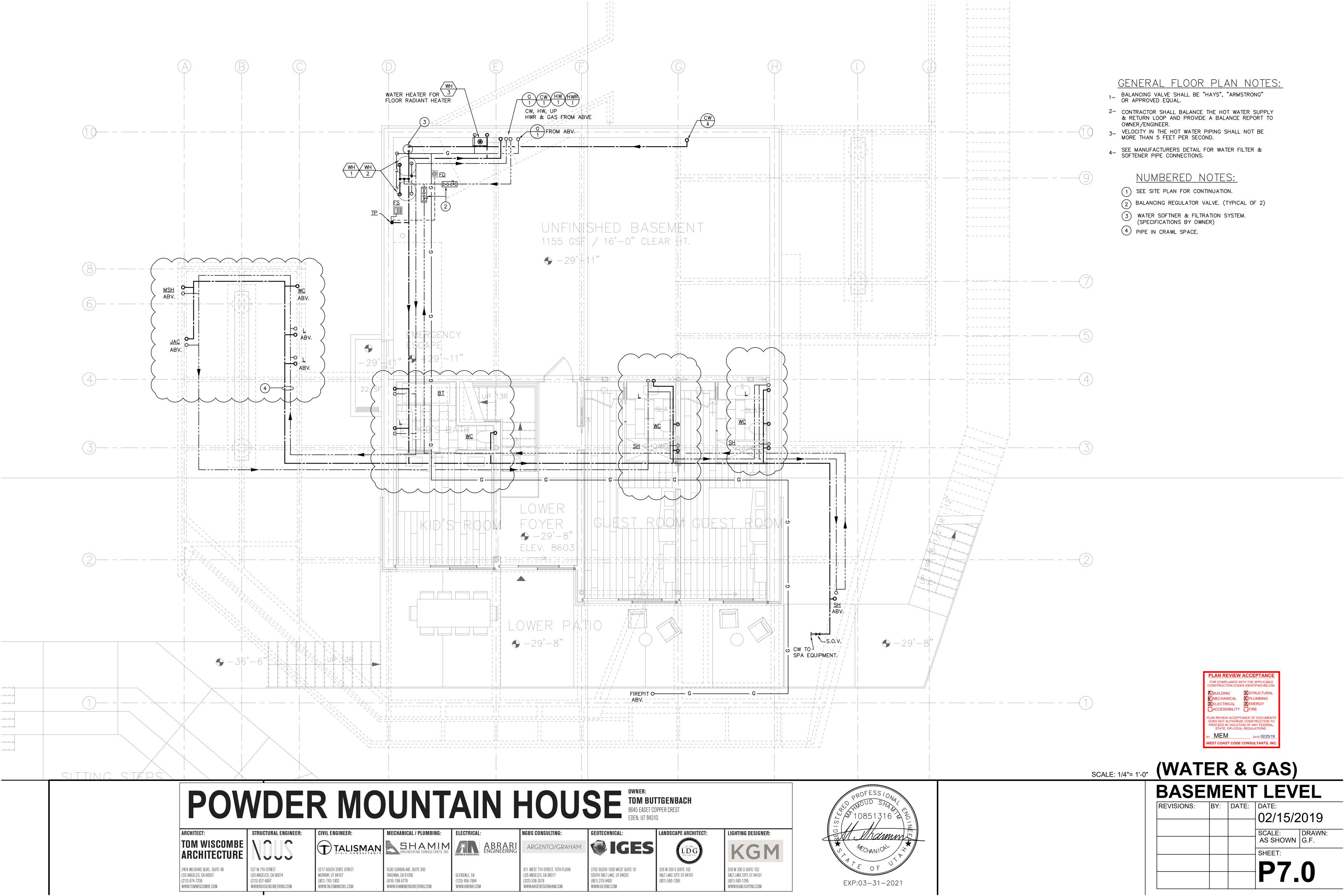


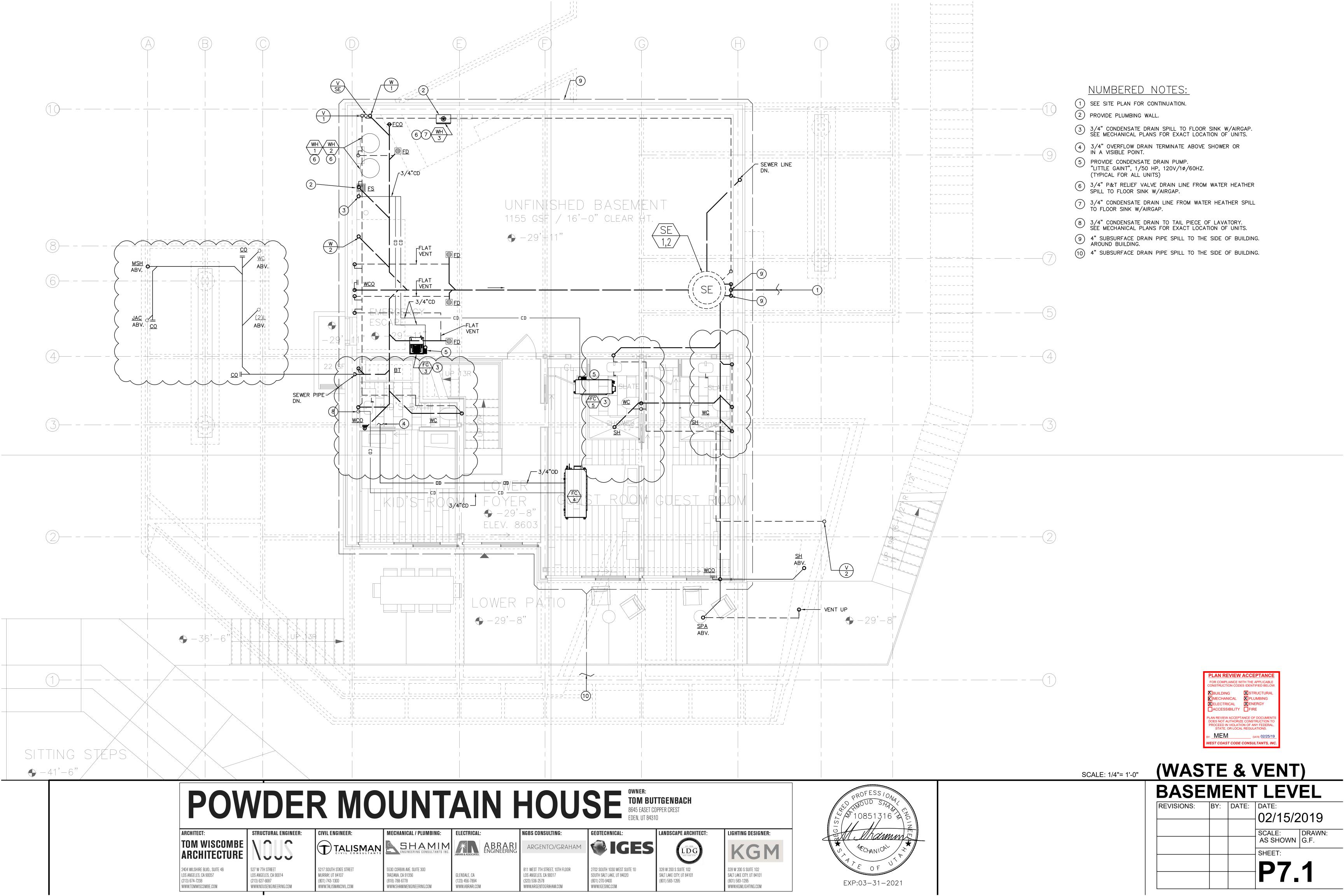












ROOF

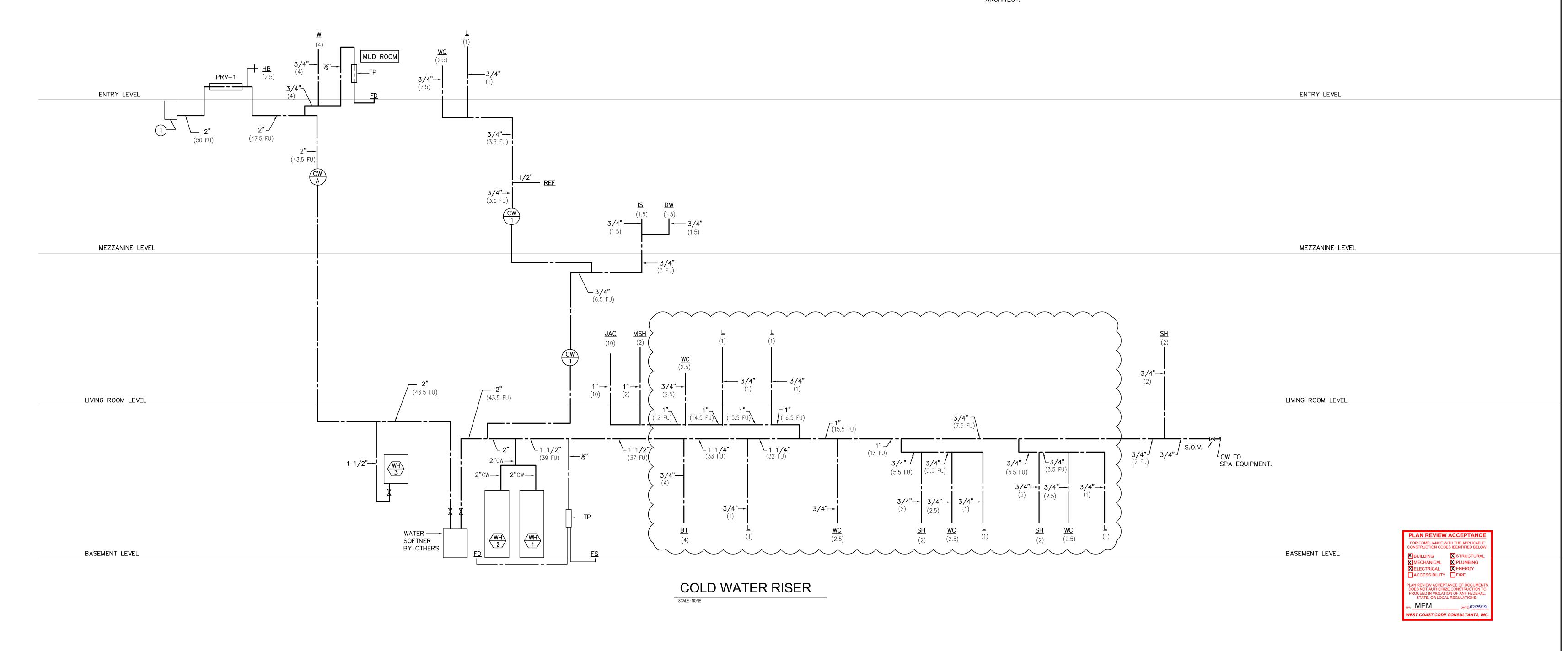
COLD WATER SIZING PIPE SIZES BASED ON TYPE "L" COPPER @ 5.9 PSI/100 FT, 8 FPS MAXIMUM. FIXTURE UNITS FIXTURE UNITS <u>FT.</u> 1/2"= 0 1 1/4"= 39 3/4"= 8 1 1/2"= 78 2" = 254

PENTHOUSE

PENTHOUSE

#### KEY NOTES:

1) 2" WATER METER. VERIFY EXACT LOCATION WITH ARCHITECT.



# POWDER MOUNTAIN HOUSE TOM BUTTGEN BACH 8645 EASET COPPER CREST EDEN, UT 84310

STRUCTURAL ENGINEER: TOM WISCOMBE **ARCHITECTURE** 2404 WILSHIRE BLVD., SUITE 4B LOS ANGELES, CA 90057

(213) 674-7238

WWW.TOMWISCOMBE.COM

1000 527 W 7TH STREET LOS ANGELES, CA 90014 (213) 627-6687 WWW.NOUSENGINEERING.COM

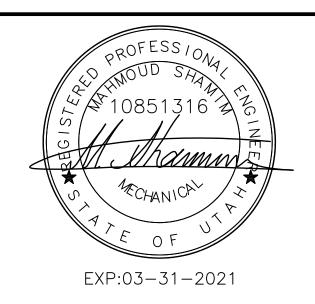
**CIVIL ENGINEER:** TALISMAN SINGERING CONSULTANTS INC. 17 SOUTH STATE STREET 5530 CORBIN AVE. SUITE 300 MURRAY, UT 84107 TARZANA, CA 91356 (818) 788-6778 (801) 743-1300 WWW.TALISMANCIVIL.COM WWW.SHAMIMENGINEERING.COM

GLENDALE, CA (123) 456-7894

NGBS CONSULTING: ARGENTO/GRAHAM 811 WEST 7TH STREET, 10TH FLOOR LOS ANGELES, CA 90017 (323) 536-2578 WWW.ABRARI.COM WWW.ARGENTOGRAHAM.COM



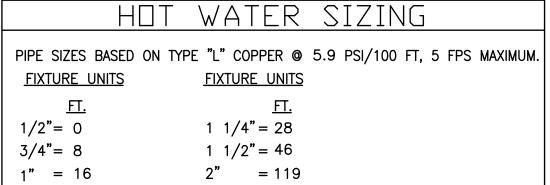
LIGHTING DESIGNER: KGM 328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1295 WWW.KGMLIGHTING.COM

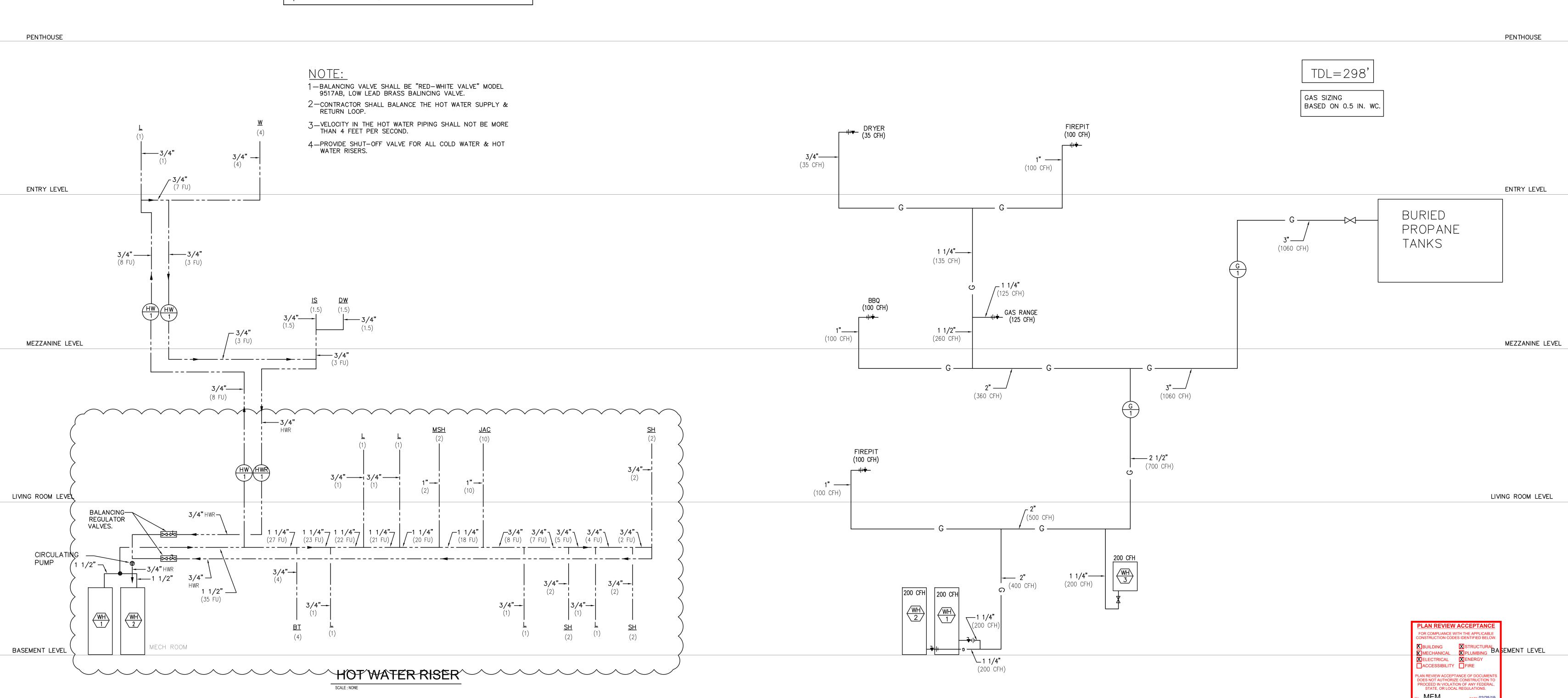


#### **RISER DIAGRAM**

REVISIONS: BY: DATE: DATE: 02/15/2019 SCALE: AS SHOWN G.F. SHEET:

ROOF





328 W 200 S SUITE 102

SALT LAKE CITY, UT 84101

(801) 583-1295

328 W 200 S SUITE 102

SALT LAKE CITY, UT 84101

WWW.KGMLIGHTING.COM

(801) 583-1295

2702 SOUTH 1030 WEST SUITE 10

SOUTH SALT LAKE, UT 84020

(801) 270-9400

WWW.IGESINC.COM



GLENDALE, CA

(123) 456-7894

WWW.ABRARI.COM

811 WEST 7TH STREET, 10TH FLOOR

LOS ANGELES, CA 90017

WWW.ARGENTOGRAHAM.COM

(323) 536-2578

527 W 7TH STREET

(213) 627-6687

LOS ANGELES, CA 90014

WWW.NOUSENGINEERING.COM

2404 WILSHIRE BLVD., SUITE 4B

LOS ANGELES, CA 90057

WWW.TOMWISCOMBE.COM

(213) 674-7238

17 SOUTH STATE STREET

WWW.TALISMANCIVIL.COM

MURRAY, UT 84107

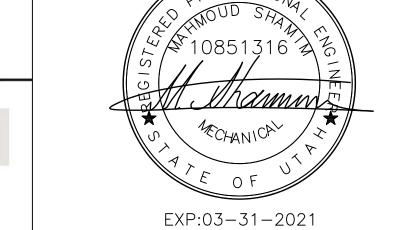
(801) 743-1300

5530 CORBIN AVE. SUITE 300

WWW.SHAMIMENGINEERING.COM

TARZANA, CA 91356

(818) 788-6778



RISER DIAGRAM								
REVISIONS:	BY:	DATE:	DATE:					
			02/15/2019					
			SCALE: AS SHOWN	DRAWN:				
			SHEET:	0.1 .				
			DO	A				
			P8.					

WEST COAST CODE CONSULTANTS, IN

**ARCHITECTURE** 

2404 WILSHIRE BLVD., SUITE 4B

LOS ANGELES, CA 90057

WWW.TOMWISCOMBE.COM

(213) 674-7238

1000

217 SOUTH STATE STREET

WWW.TALISMANCIVIL.COM

MURRAY, UT 84107

(801) 743-1300

5530 CORBIN AVE. SUITE 300 TARZANA, CA 91356

WWW.SHAMIMENGINEERING.COM

(818) 788-6778

GLENDALE, CA

(123) 456-7894

811 WEST 7TH STREET, 10TH FLOOR

LOS ANGELES, CA 90017

WWW.ARGENTOGRAHAM.COM

(323) 536-2578

2702 SOUTH 1030 WEST SUITE 10

SOUTH SALT LAKE, UT 84020

(801) 270-9400

WWW.IGESINC.COM

328 W 200 S SUITE 102

SALT LAKE CITY, UT 84101 (801) 583-1295

328 W 200 S SUITE 102

SALT LAKE CITY, UT 84101

WWW.KGMLIGHTING.COM

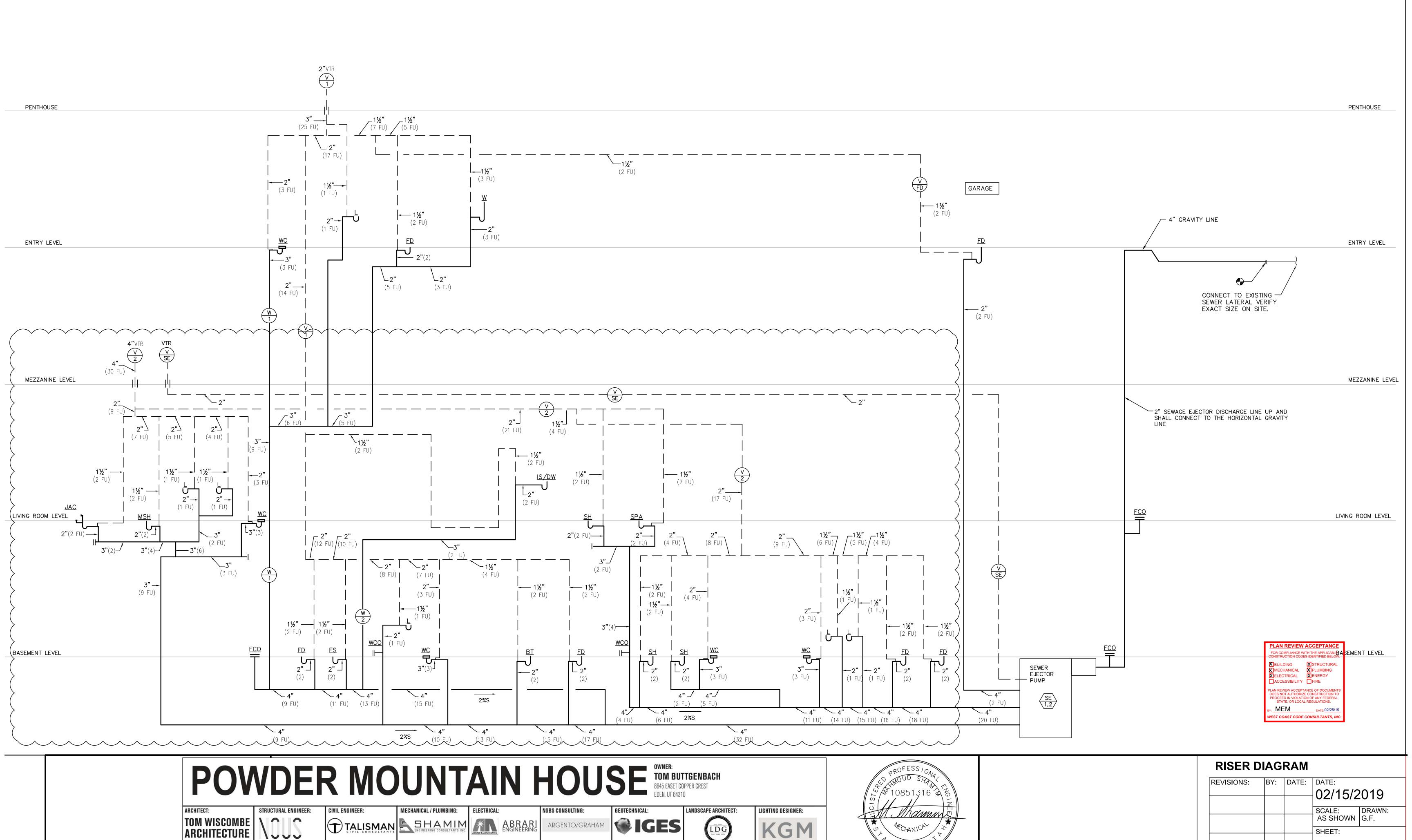
EXP:03-31-2021

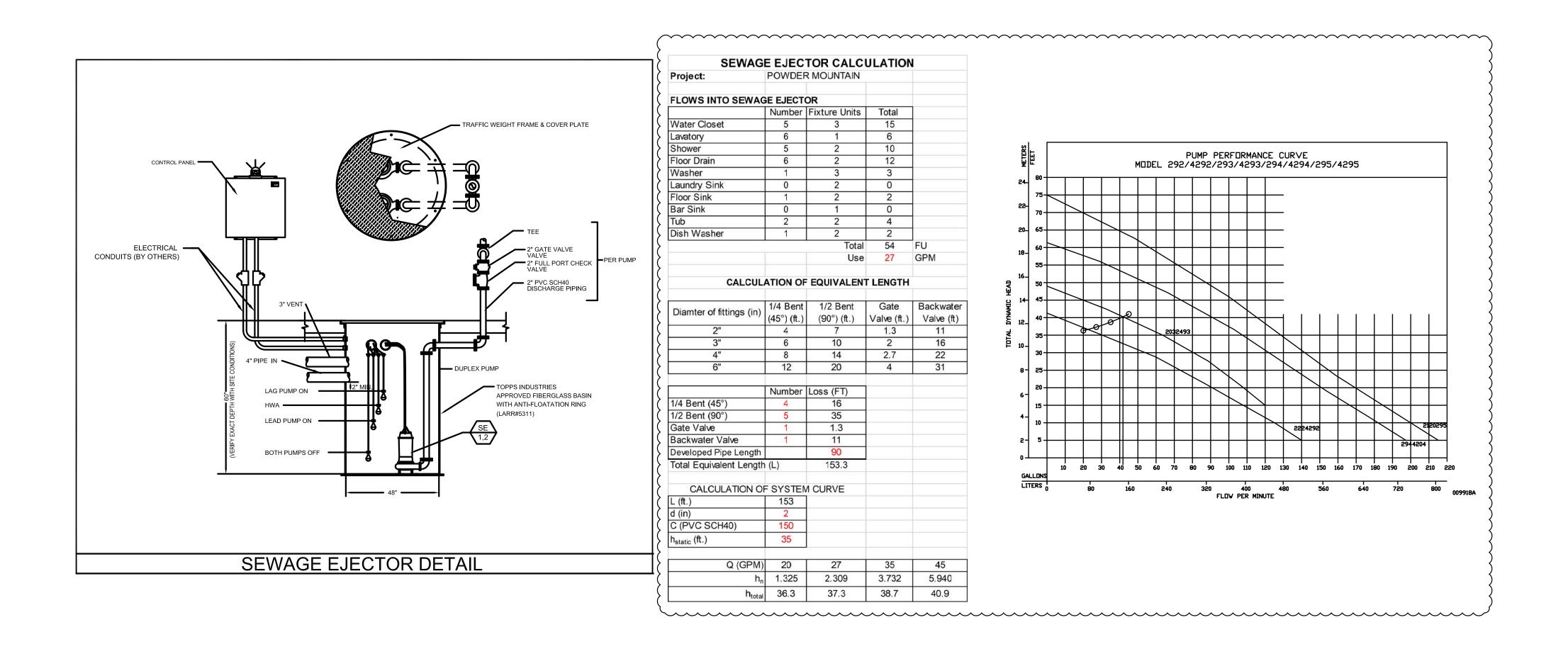
(801) 583-1295

527 W 7TH STREET LOS ANGELES, CA 90014

WWW.NOUSENGINEERING.COM

(213) 627-6687









**ARCHITECTURE** 2404 WILSHIRE BLVD., SUITE 4B LOS ANGELES, CA 90057 (213) 674-7238 WWW.TOMWISCOMBE.COM

527 W 7TH STREET LOS ANGELES, CA 90014 (213) 627-6687 WWW.NOUSENGINEERING.COM WWW.TALISMANCIVIL.COM

217 SOUTH STATE STREET MURRAY, UT 84107 (801) 743-1300

5530 CORBIN AVE. SUITE 300 TARZANA, CA 91356 (818) 788-6778 WWW.SHAMIMENGINEERING.COM

GLENDALE, CA (123) 456-7894

WWW.ABRARI.COM

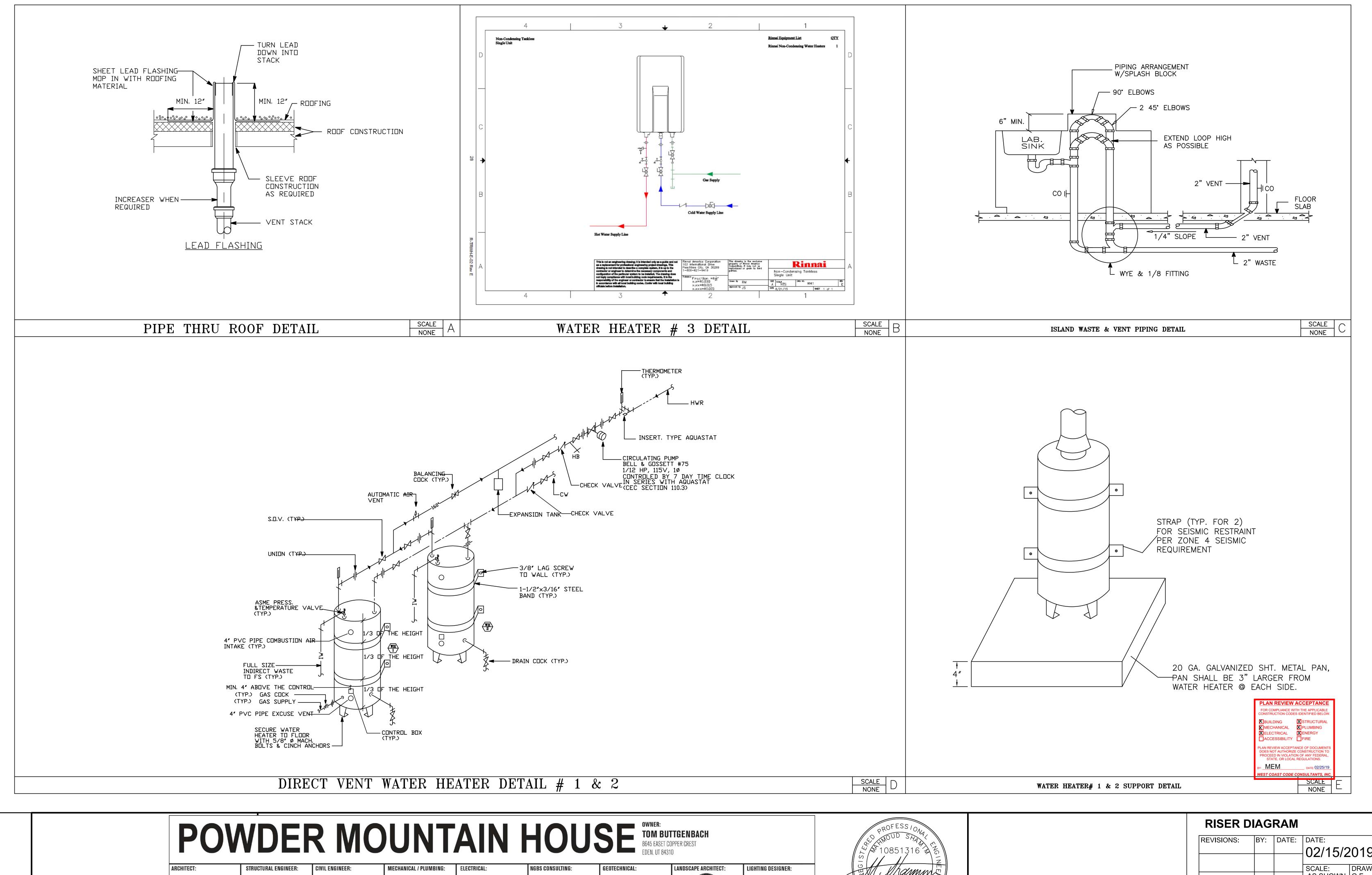
811 WEST 7TH STREET, 10TH FLOOR 2702 SOUTH 1030 WEST SUITE 10 LOS ANGELES, CA 90017 SOUTH SALT LAKE, UT 84020 (323) 536-2578 (801) 270-9400 WWW.ARGENTOGRAHAM.COM WWW.IGESINC.COM

328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1295

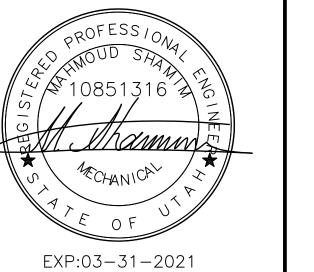
KGM 328 W 200 S SUITE 102 SALT LAKE CITY, UT 84101 (801) 583-1295 WWW.KGMLIGHTING.COM

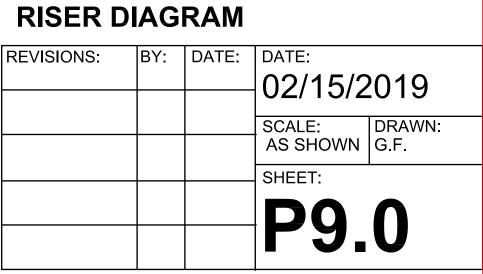
EXP:03-31-2021

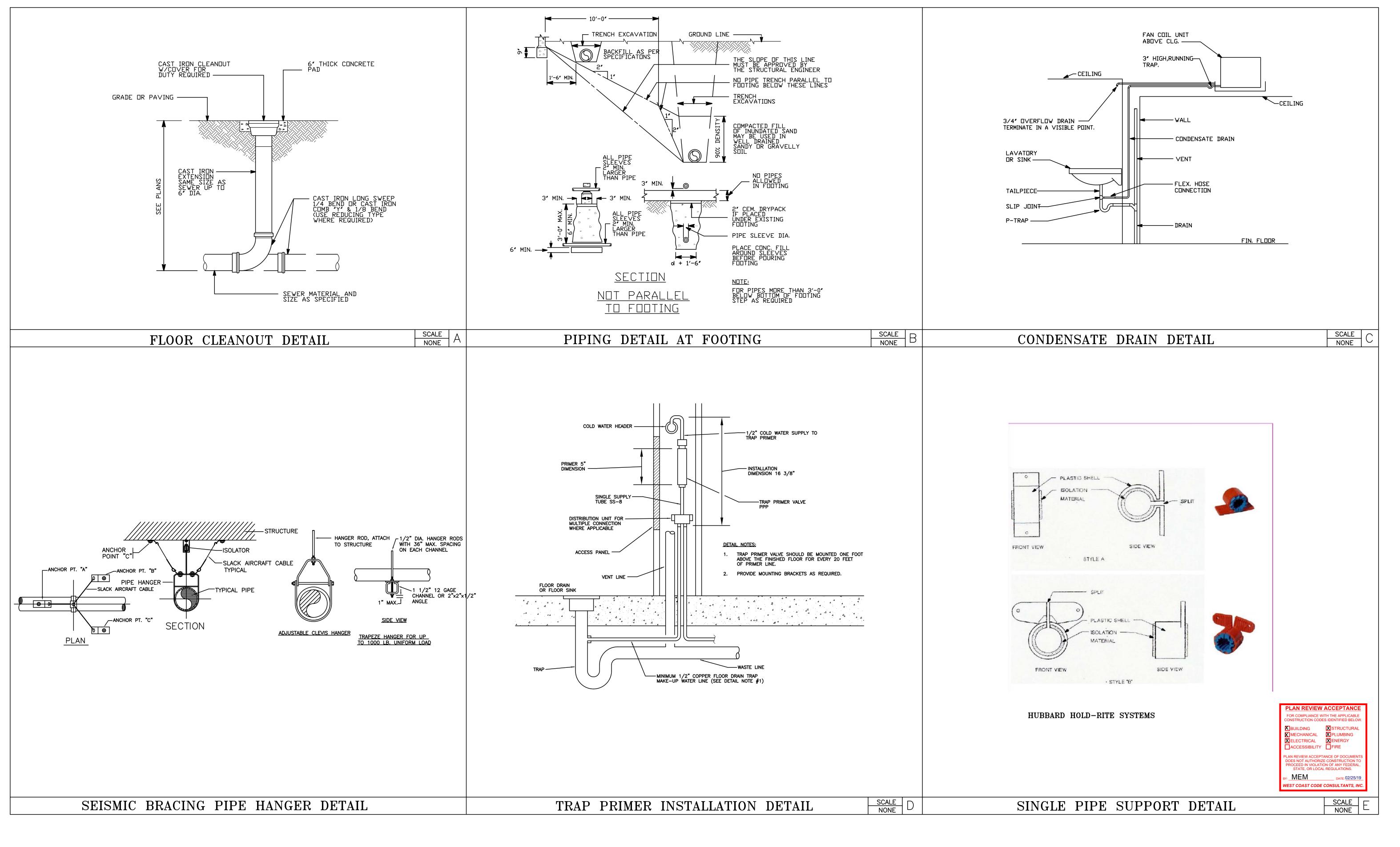
SEWAGE EJECTOR DETAIL SHEET REVISIONS: BY: DATE: DATE: 02/15/2019 AS SHOWN G.F.













WWW.ARGENTOGRAHAM.COM

WWW.IGESINC.COM

WWW.KGMLIGHTING.COM

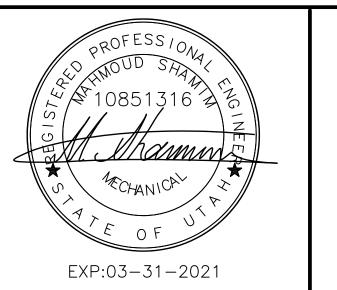
WWW.ABRARI.COM

WWW.TOMWISCOMBE.COM

WWW.NOUSENGINEERING.COM

WWW.TALISMANCIVIL.COM

WWW.SHAMIMENGINEERING.COM



RISER DIAGRAM									
REVISIONS:	BY:	DATE:	DATE:						
			02/15/2	2019					
			SCALE: AS SHOWN	DRAWN: G.F.					
			SHEET:						
			<b>P9</b>	4					
			ΓJ.						