	SYMBOL	ABBREVIATION DESCRIPTION	THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK.	ABV	ABOVE			BACK FLOW PREVENTOR	
	Ø	DIA DIAMETER	DUCTWORK, PIPING, AND EQUIPMENT, AS SHOWN, ARE SCHEMATIC. FABRICATE AND INSTALL BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER	AFF	AMERICANS WITH DISABILITIES ACT ABOVE FINISHED FLOOR			REDUCED PRESSURE BACK FLOW PREVENTOR	SANTA MONICA-MALIBU UNIFIED SCHOOL DISTRICT
			TRADES. ADHERE TO LOCATIONS AS CLOSELY AS POSSIBLE, VARY RUNS OR SHAPE OF DUCTWORK AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCES AS	AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY AUTHORITY HAVING JURISDICTION	LÁI	BFV	BUTTERFLY VALVE	2828 4th Street, Santa Monica, CA 90405
	ф	PH ELECTRICAL PHASE	REQUIRED BY THE ARCHITECT. PROVIDE A COMPLETE SET OF SHOP DRAWINGS REFLECTING ACTUAL DIMENSIONS, ACCESS REQUIREMENTS, AND DETAILS BASED	ALUM	ALUMINUM	<u> </u>	ООТО	CAP CLEAN OUT THROUGH GRADE	310.399.5865
	5 2		UPON THE ACTUAL EQUIPMENT PROCURED. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.	AMB	AMBIENT AMPERAGE	— — — — — — — — — — — — — — — — — — —	COTG FCO	FLOOR CLEAN OJUT	
		CEILING MOUNTED SUPPLY AIR DIFFUSER	2 THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL ITEMS RELATED TO	ARCH	ARCHITECT, ARCHITECTURAL	+			
		CEILING MOUNTED RETURN AIR GRILLE	MECHANICAL SYSTEMS WITH THE WORK OF OTHER TRADES BEFORE PROCEEDING WITH PROCURING OR FABRICATION OF EQUIPMENT, DUCTWORK, PIPING ETC. ITEMS	ARI	AMERICAN REFRIGERATION INSTITUTE AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR	ເກ	HB	RECESSED HOSE BIBB	dal
			TO BE COORDINATED SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:	ASHKAL	CONDITIONING ENGINEERS	<u>, </u>	НВ	HOSE BIBB	OSK
		CEILING MOUNTED EXHAUST AIR GRILLE	GRILLS, REGISTERS AND DIFFUSERS SHALL BE COORDINATED WITH THE REFLECTED	BOD	BACK DRAFT DAMPER BASIS OF DESIGN	D	RHB	PIPE REDUCER	architects 926 Natoma Street. Suite 200, San Francisco, CA 94103
		SIDEWALL MOUNTED SUPPLY AIR DIFFUSER, RETURN AIR GRILLE,	CEILING PLAN.	BEL	BELOW	₩-∅		PRESSURE GAGE	415.839.6418 / Fax 415.839.7584
		LOUVER	DUCTWORK LOCATIONS AND POTENTIAL INTERFERENCES WITH STRUCTURAL MEMBERS, FRAMING, FIRE SPRINKLER LINES, PLUMING WASTE LINES, CABLE TRAYS	BG BG	BELOW FLOOR BELOW GRADE	<u> </u>	TPV	TRAP PRIMER VALVE	1539 Sawtelle Blvd, Suite 14, Los Angeles, CA 90025 310.254.2263
	1	RECTANGULAR DUCT	AND CONDUIT.	ВНР	BREAK HORSE POWER			BALL VALVE	310.234.2203
		RECTANGULAR DUCT	OPENINGS REQUIRED IN WALLS, FLOORS OR CEILINGS SHALL BE COORDINATED WITH		BUILDING BRITISH THERMAL UNIT PER HOUR	⋈		VALVE IN PIPE DROP OR PIPE RISER	OFFSS
		RECTANGULAR SUPPLY / OA, RETURN, EXHAUST / RELIEF DUCT	THE GENERAL CONTRACTOR AND/OR FRAMING CONTRACTOR PRIOR TO THE START OF CONSTRUCTION TO AVOID REWORK. ANY REWORK REQUIRED SHALL BE AT NO	F CD	CONDENSATE DRAIN	———— c		STRAINER	P. STARRE
ere and a second of the control of t		PASSING THROUGH PLAIN OF VIEW	ADDITIONAL COST TO THE OWNER.	CFM	CUBIC FEET PER MINUTE CONTINUATION	ŧ	<u> </u>		M34968 1 6
		RECTANGULAR SUPPLY / OA, RETURN, EXHAUST / RELIEF DUCT	PRIOR TO BIDDING THE PROJECT THE MECHANICAL CONTRACTOR SHALL COORDINATE	E DFU	DRAINAGE FIXTURE UNITS	₹ I	T&P	TEMPERATURE AND PRESSURE RELIEF VALVE	State P
		TURNING DOWN	WITH THE ELECTRICAL CONTRACTOR TO DETERMINE WHO WILL BE RESPONSIBLE FOR PROCURING AND INSTALLING MOTOR STARTERS, CONDUIT FOR LOW VOLTAGE	R DN (E)	DOWN EXISTING	ıl ı		UNION	EXP. 6/30/20
			CONTROLS AND LINE VOLTAGE CONTROL DEVICES, SUCH AS SINGLE POLE SWITCHES.	· EA	EXHAUST AIR	\otimes	YB	SOV IN YARD BOX	OF CALIFORN
[8	<u> </u>	ROUND DUCT	ACCESS TO VOLUME DAMPERS FOR BALANCING. ACCESS TO ALL EQUIPMENT, AS	EFF	EFFICIENCY ELECTRICAL	4		CHECKVALVE	
			WELL AS PLATFORM AND CURB LOCATIONS.	I	EXTERNAL STATIC PRESSURE	烃		GAS VALVE	CONSULTANT BY 3C Engineering, Inc., ALL COMMON LAW
[8		ROUND DUCT TURNING DOWN, ROUND DUCT TURNING UP	CONSTRUCTION OF PLATFORMS AND SHAPED RUNNERS OR OTHER MEANS TO MOUNT CURBS LEVEL. ALL PLATFORMS AND CURBS SHALL BE LEVEL UNLESS OTHERWISE	FA FC	FROM ABOVE FLEXIBLE CONNECTION	×		GLOBE VALVE	BY 3C Engineering, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED
	<u></u>		NOTED OR DETAILED ON THE MECHANICAL PLANS.	FLA	FULL LOAD AMPS	171		PLUG VALVE ELEVATION VIEW	SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT
		90° ELBOW WITH TURNING VAINS	3 COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING CODES:	FLR	FLOOR FEET PER MINUTE	N	PV	PLUG VALVE PLAN VIEW	FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN
			2016 CALIFORNIA ADMINISTRATIVE CODE (CAC): PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)	FT	FLUSH TANK	M	PRV	PRESSURE REDUCING OR REGULATOR VALVE	CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF
4	**************************************	FLEXIBLE DUCT 60" MAX LENGTH	2016 CALIFORNIA BUILDING CODE (CBC): PART 2, TITLE 24 CCR	FV	FLUSH VALVE GAGE, GAUGE	WM	VM	WATER METER	(O) 805/340/3363 (F) 805/340/3364 ACCEPTANCE OF THESE RESTRICTIONS.
			2016 CALIFORNIA ELECTRICAL CODE (CEC): PART 3, TITLE 24 CCR 2016 CALIFORNIA MECHANICAL CODE (CMC): PART 4, TITLE 24 CCR	GALV	GALVANIZED	W <u>C</u> O	WCO	WALL CLEANOUT	PROJECT NAME
		FC FLEXIBLE CONNECTION	2016 CALIFORNIA PLUMBING CODE (CPC): PART 5, TITLE 24 CCR 2016 CALIFORNIA ENERGY CODE (CEnC): PART 6, TITLE 24 CCR	GPF	GALLONS PER FLUSH		WHA	WATER HAMMER ARRESTOR	POINT DUME E.S.
	<u>, </u>	VD MANUAL VOLUME DAMPER	2016 CALIFORNIA FIRE CODE (CFC): PART 9, TITLE 24 CCR 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN): PART 11, TITLE 24	GYP	GALLONS PER MINUTE GYPSUM	<u>e</u>		PIPE DOWN	TEMPORARY HOUSING
		VD INIVIAL VOLUME DAMIFER	CCR	HD	HEAD	0—		PIPE UP	PROJECT
	Д	WALL CAP	REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.	HZ	HORSE POWER HERTZ		·	PIPE TEE DOWN	FACILITY INFO
			4 REVIEW ALL DRAWINGS AND SPECIFICATIONS INCLUDING ARCHITECTURAL,	IE	INVERT ELEVATION	<u> </u>	POC OR POD	POINT OF CONNECTION OR POINT OF DISCONNECT	POINT DUME ELEMENTARY SCHOOL 6955 Fernhill Dr, Malibu, CA 90265
		CEILING EXHAUST FAN	STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY QUESTIONS SHALL BE BROUGHT UP, IN WRITING, TO THE ATTENTION OF THE ENGINEER BEFORE	KW	INCHES OF WATER COLUMN KILOWATT		S/W	SOIL OR WASTE	AGENCY STAMP
	E3		THE START OF CONSTRUCTION.	LAV	LAVATORY				
		POC OR POD POINT OF CONNECTION, POINT OF DISCONNECTION	5 ALL EQUIPMENT SHALL BE INSTALLED WITH SUFFICIENT ACCESS TO CONTROLS, FILTERS, ELECTRIC MOTORS, ETC. ACCESS CLEARANCE SHALL BE 30" OR AS	LBS MBH	POUNDS 1000 BRITISH THERMAL UNITS PER HOUR		s/w	EXISTING SOIL OR WASTE	FILE NUMBER: 19-96
			REQUIRED BY THE EQUIPMENT MANUFACTURER, WHICH EVER IS GREATER. CONTRACTORS SHALL PROVIDE ACCESS PANELS WHERE REQUIRED. WHERE	MCA	MINIMUM CIRCUIT AMPS				FILE NUMBER: 19-96 IDENTIFICATION STAMP
		ITEMS RELATED TO THE MECHANICAL SYSTEM TO BE REMOVED	VERTICAL SPACE ALLOWS, INSTALL DUCTWORK THAT IS IN CLOSE PROXIMITY TO	MFGR MIN	MANUFACTURE OR MANUFACTURER MINIMUM		cw	COLD WATER	DIVISION OF THE STATE ARCHITECT
	PLUMBING MATER	RIAL SPECIFICATIONS	MECHANICAL, ELECTRICAL OR ANY OTHER ITEM THAT REQUIRES ACCESS HIGH IN THE SPACE FOR EASE OF ACCESS.	MU	MAKE UP				03-119266
DOMESTIC WATER PIPING	I LONDING WITTE	FIXTURE TRAPS	6 HANDLE, STORE AND INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.	(N)	NEW NOT LISTED	CD	CD	CONDENSATE DRAIN	The second second
1. PIPE: TYPE L COPPER, HARD DRAWN, AS		1. P-TRAPS, EXPOSED LOCATIONS:	7 BRACE AND SUPPORT PIPES, CONDUIT, AND DUCTWORK IN ACCORDANCE TO SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING	NOM	NOMINAL		HW	HOT WATER	AC8 FLS 7C SSS 77 Date: DEC 2 2018
 FITTINGS: WROUGHT COPPER, ANSI B-16 INSULATION: PROVIDE INSULATION FOR 		A. TRAP BODY: CAST BRASS, POLISHED CHROME FINISH, ZINC CLEANOUT PLUG.	SYSTEM.	NTS NPS	NOT TO SCALE NOMINAL PIPE SIZE		1177	TIOT WITEIN	
DISTRIBUTION SYSTEMS. SEE PIPE INSU 4. JOINTS:	ULATION SIZING TABLE.	B. WALL BEND: 17 GAUGE BRASS, POLISHED CHROME FINISH. C. FLANGE: CHROME-PLATED STEEL.	8 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS, REGISTERS, GRILLES, AND ACCESS PANELS.	OBD	OPPOSED BLADE DAMPER		HWR	HOT WATER RETURN	
A. 2-1/2 INCH DIAMETER & SMALLER: LE SOLDER OR SILVER/COPPER-ALLOY		D. MANUFACTURER: AMERICAN STANDARD, KOHLER, DEARBORN BRASS, MCGUIRE, ZURN, EBC, OR APPROVED. SIMILAR TO MCGUIRE C8912.	9 ALL DUCT DIMENSIONS, AS SHOWN ON MECHANICAL DRAWINGS ARE CLEAR INSIDE	PD PSI	PRESSURE DROP POUNDS PER SQUARE INCH				
	BNAZED.	2. P-TRAPS, CONCEALED WITHIN CHASES, WALLS, OR UNDERFLOOR:	DIMENSIONS. INCREASE OUTER DUCT DIMENSION AS REQUIRED TO ACCOUNT FOR THE THICKENESS OF INTERNAL LINING WHERE APPLICABLE.	RM	ROOM	TPTPTP	TP	TRAP PRIMER	KEY PLAN
SANITARY WASTE AND VENT PIPING 1. BELOW GRADE OPTION #1		A. MATERIALS: ONE PIECE CAST IRON. B. JOINTS: NO-HUB.	10 INSULATION AND FLEXIBLE DUCT SHALL COMPLY WITH STATE FIRE MARSHALL	RPM	REVOLUTIONS PER MINUTE SHEET				K A C
A. PIPE: PVC DWV, ASTM D-2665. B. FITTINGS: PVC DWV, ASTM D-2665 AN	ND D-3311	TRAP AND SUPPLY INSULATION KITS	CRITERIA AND SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 PER ASTM-84, NFPA-223, AND UL 723.	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS	TW-	TW	TEMPERED WATER	
C. JOINTS: SOLVENT-CEMENTED, IN ACC	CORDANCE WITH ASTM D-2855,	COMPLIES WITH ADA REQUIREMENTS FOR INSULATING PIPES AND FITTINGS	11 INSULATE PIPING AND DUCTWORK IN ACCORDANCE TO THE GOVERNING CODES.	SOV	NATIONAL ASSOCIATION SHUT OFF VALVE			SANITARY VENT	
USING ASTM D-2564 SOLVENT CEMEN	NT AND ASTM F-656 PRIMER.	UNDER HANDICAPPED ACCESSIBLE FIXTURES.	12 COMMISSION AND START-UP THE MECHANICAL SYSTEMS TO ASSURE A COMPLETE	SP	STATIC PRESSURE		V	SANITARY VENT	
1. BELOW GRADE OPTION #2: A. PIPE: ABS DWV, ASTM D-2661.		 MATERIAL: MOLDED CLOSED CELL VINYL. COMPONENTS: PRE-MOLDED TO FIT TRAP, TAIL PIECE, WALL BEND, 	AND OPERATIONAL HVAC SYSTEM IN ACCORDANCE TO ASHRAE AND NEBB. 13 ALL SQUARE ELBOWS IN SUPPLY DUCTWORK SHALL HAVE TURNING VANES. PROVIDE	SOV	SHUT OFF VALVE STAINLESS STEEL			ITEMS RELATED TO THE PLUMBING SYSTEM TO BE	
B. FITTINGS: ABS DWV, ASTM D-2661 AN C. JOINTS: SOLVENT-CEMENTED, USING		SUPPLIES, AND STOPS. 4. BURNING CHARACTERISTICS: SELF-EXTINGUISHING WHEN TESTED IN	MANUAL VOLUME DAMPER AT EACH BRANCH DUCT TAKE- OFF SERVING EACH AIR	TEMP	TEMPORARY, TEMPERATURE		<u> </u>	REMOVE	
	G ASTM D-2233 SOLVENT CEMENT.	ACCORDANCE WITH ASTM D635.	TERMINAL DEVICE. PROVIDE BALANCING DAMPERS FOR EACH MAIN DUCT TAKE-OFF IN ACCORDANCE TO SMACNA IN ORDER TO ASSURE A COMPLETELY BALANCED SYSTEM.		TOTAL STATIC PRESSURE TYPICAL	PLU	MBING (SENERAL NOTES	PROJECT NORTH
ABOVE GRADE: A. SERVICE WEIGHT CAST IRON NO-HUI	IB WITH NEOPRENE GASKETS AND	 COLOR: WHITE. MANUFACTURER: MCGUIRE, TRUEBRO, EBC, OR APPROVED. SIMILAR TO 	14 CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR	UON	UNLESS OTHERWISE NOTED			REQUIRED PLUMBING PLAN CHECK PERMITS AND	PROJECT ISSUE DATE: 2018/12/20
TYPE301 4 BAND STAINLESS STEEL O BY THE CAST-IRON SOIL PIPE INSTITU		MCGUIRE "PROWRAP".	AREA TO CONTROL COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE MOUNTED AT THE HEIGHTS GIVEN BY SECTION 11B-308.1 OF THE 2016 CBC. NOTIFY	V	UP TO OR UP THROUGH ROOF VENT	APPROVALS HAVE BEEN OBTA 2 LAVATORY FAUCETS, SINK FAL		LUDING SERVICE SINK FAUCETS OR FAUCETS DESIGNATED	DATE NO. REVISIONS 2018/12/20 DSA BACKCHECK
	OTE.	PIPING SPECIALTIES 1. ESCUTCHEONS	THE ARCHITECT IMMEDIATELY IF THE MOUNTING HEIGHTS REQUIRED BY THE 2016 CBC CANNOT BE OBTAINED AT THE LOCATION WHERE THE CONTROL DEVICE IS SHOWN ON	IVID	VENT THROUGH ROOF			QUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY	2010/12/20 BOA BAOROTILOR
PIPE SUPPORTS 1. RING HANGERS FOR PIPE SIZES 3 INCH.	·	A. CONSTRUCTION: 2" DIAMETER OPENING AND SMALLER: CAST BRASS	THE MECHANICAL FLOOR PLANS.	WC WG	WATER CLOSET WATER GAUGE		TECTURAL DRA	WINGS FOR EXACT LOCATION OF PLUMBING FIXTURES AND	
A. TYPE: CARBON STEEL BAND, ADJUST B. FINISH: ZINC PLATED.	TABLE, WITH KNURLED SWIVEL NUT	T. NICKEL-PLATED WITH SET SCREW. B. SIZE: SUFFICIENT TO COVER SLEEVES AND OPENINGS.	15 ALL EQUIPMENT SHALL BE LABELED AS TO THE SPACE THEY ARE SERVING.	WSFU	WATER SUPPLY FIXTURE UNIT	DRAINS.			
C. APPROVALS: UL AND FM. D. FOR UNINSULATED COPPER PIPING:	FOUIVALENT TO MODEL	CLEANOUTS AND CLEANOUT COVERS	NATIONAL MATERIAL O	WT ODEOU	WEIGHT EXPRESSED IN POUNDS	4 PROVIDE ALL TAILPIECES, TRA WITH PREFORMED INSULATION		PLY PIPES TO LAVATORIES DESIGNED AS ACCESSIBLE,	
SPECIFIED, WITH ADDITION OF COPPI			MECHANICAL MATERIAL S	SPECIF	-ICATIONS:	5 COORDINATE AND SCHEDULE	TIMING FOR UTI	LITY SERVICE CONNECTION.	
OR PVC COATING. 2. HANGER RODS: ALL RODS ON TRAPEZE	HANGERS SHALL BE ½" MINIMUM	B. COVER: ROUND NICKEL BRONZE FRAME WITH COVER, PERIMETER	RECTANGULAR AND ROUND DUCTS:			*		ATED AWAY FROM ALL LOAD BEARING FOOTINGS.	
SIZE. A. MATERIAL: CARBON STEEL.		VANDAL PROOF SCREWS, ANCHORING LUGS. C. MANUFACTURER: JAY R. SMITH, JOSAM, JONESPEC, MIFAB, WADE,	 MATERIAL: GALVANIZED STEEL FABRICATE AND SUPPORT IN ACCORDANCE WITH: CA CONSTRUCTION STANDARDS, CURRENT EDITION. 	CALIFORNIA I	MECHANICAL CODE, CURRENT EDITION, SMACNA HVAC DUCT			F 18 INCHES VERTICAL AND 10 FEET HORIZONTAL AWAY KES AND PROVIDED WITH VANDAL PROOF HOODS.	
B. FINISH: INDOORS: ZINC PLATED.		WATTS, ZURN, OR APPROVED. SIMILAR TO JAY R. SMITH 4436-U-NB.	TRANSVERSE JOINTS: IN ACCORDANCE WITH DETAILS IN SMACNA HVAC DUCT CONS					LL CUTTING AND PATCHING OF WALLS, ROOFS, FOOTINGS,	
3. HANGER SUPPORT SPACING: (PER TABL	LE 313.3 CPC 2016)	WALL CLEANOUTS, INTERIOR UNFINISHED AREAS AND CONCEALED: A. PLUG: BRONZE, TAPER THREAD.	 MATERIAL: SUPPLY AIR DUCTS: GALVANIZED STEEL, AND EXHAUST AIR DUCTS: ALUMI CALIFORNIA MECHANICAL CODE, CURRENT EDITION, SMACNA HVAC DUCT CONSTRU 	RUCTION STA	NDARDS, CURRENT EDITION.			ORE DRILLING. COORDINATE ALL SAW CUTTING AND CORE CUTTING AND DRILLING REQUIRED OF STRUCTURAL	
HORIZONTAL:		B. COVER: SHALLOW STAINLESS STEEL OR DEEP CHROME PLATED	 SEAMS: LONGITUDINAL OR SPIRAL, IN ACCORDANCE WITH SMACNA HVAC DUCT CON SNAPLOCK NOT ACCEPTABLE. 	ONSTRUCTIO	N STANDARDS. LONGITUDINAL SEAMS SHALL BE SPOT WELDED.			NON THE PLANS SHALL BE BROUGHT TO THE ARCHITECTS CONTRACTOR SHALL SUBMIT PROPOSED LOCATION AND	
COPPER: EVERY 6' FOR 1 ½" AND SMALL		BRONZE, SECURED TO PLUG WITH COUNTERSUNK, VANDAL PROOF SCREW.	TRANSVERSE JOINTS: IN ACCORDANCE WITH DETAILS IN SMACNA HVAC DUCT CONS	NSTRUCTION	STANDARDS CONFIGURATION.			HE ARCHITECTS AND STRUCTURAL ENGINEERS	
STEEL: 6' FOR ½", 8' FOR ¾" AND 1", 10' SCH 40 PVC: EVERY 4' FOR ALL SIZES, F		C. MANUFACTURER: JAY R. SMITH, JOSAM, JONESPEC, MIFAB, WADE, WATTS, ZURN, OR APPROVED. SIMILAR TO JAY R. SMITH 4472-U	LIQUID DUCT SEALER:				LOCATIONS. PIF	PE PENETRATIONS AND EQUIPMENT PAD LOCATIONS WITH	
VERTICAL:		(SHALLOW) OR 4715-U (DEEP).	UL CLASSIFICATION: FLAME SPREAD RATING NOT TO EXCEED 25; SMOKE DEVELOPED			STRUCTURAL DRAWING PRIOR	R TO WORK.		
COPPER: EVERY FLOOR NOT TO EXCEE STEEL: SAME AS HORIZONTAL SPACING		3. PROVIDE CLEANOUTS WHERE INDICATED ON DRAWINGS AND ADDITIONAL	 ORGANIC COMPOUND (VOC) CONTENT LESS THAN 30GRAMS PER LITER FOR METAL 7 APPLICATION TEMPERATURE LIMITS: 40 TO 110 DEG. F. 			INSULATION. ENSURE THAT AL	L CONTROL DEV	NT AND PIPING WITH OTHER TRADES PRIOR TO /ICES, SHUT-OFF VALVES, ETC. ARE ACCESSIBLE FOR	
SCH 40 PVC: BASE AND EVERY FLOOR		CLEANOUTS AS REQUIRED TO MEET CODE REQUIREMENTS. INSTALL IN ACCORDANCE WITH CLEANOUT DETAILS ON DRAWINGS.	MANUFACTURER: UNITED MCGILL CORP., ACCUMETRIC, VULKEM, CARLISLE HARDCA APPROVED. SIMILAR TO ACCUMETRIC BOSS 350.	CAST, ALCOA,	, DESIGN POLYMERICS, MIRACLE ADHESIVES, DUCTMATE, OR	MAINTENANCE. WHERE ACCES	S PANELS IN FI	NISHED SPACES, OTHER THAN THAT SHOWN, CONTRACTOR CATION OF PANELS WITH ARCHITECT PRIOR TO	
WHEREVER INSULATED PIPE CONTACTS A HA		WATER HAMMER ARRESTORS				INSTALLATION.			
PIPE SHIELD MUST BE USED. B-LINE #B3153 C	UK EQUAL.	TYPE: FACTORY PRESSURIZED AND SEALED, WITH STAINLESS STEEL BELLOWS OR BRASS PISTON.	TAPE AND ADHESIVE SEALER:	NES = -	IOT TO EVOLED TO A THE LOCATION TO THE			DURING INSTALLATION OF PLUMBING EQUIPMENT, PIPING, OWNER. REPAIRS SHALL BE AS DIRECTED BY THE	
SLEEVES AND SEALS 1. MATERIAL: GALVANIZED STEEL.		2. INSTALL IN ACCORDANCE WITH PDI STANDARD WH 201. 3. TESTING AND FIXTURE UNIT RATINGS: IN ACCORDANCE WITH PLUMBING	 UL CLASSIFICATION: FLAME SPREAD RATING NOT TO EXCEED 25; SMOKE DEVELOPED 110 DEG. F. 			ARCHITECT.			
MINIMUM GAUGE: 20 MINIMUM SIZE: 1/2 INCH LARGER THAN [DIAMETER OF PIPE INCLUDING	AND DRAINAGE INSTITUTE (PDI) STANDARD WH 201.	 MANUFACTURER: HARDCAST INC. DT TAPE WITH FTA-20 ADHESIVE, UNITED MCGILL IN MANUFACTURER: UNITED MCGILL CORP., ACCUMETRIC, VULKEM, CARLISLE HARDCA 					ASONRY WALLS AND FLOORS ARE TO BE SLEEVED. S SHALL BE DISINFECTED PRIOR TO USE PER 2016 CPC	
INSULATION. 4. INSTALL SLEEVES AND SEALS AT PIPE P	•	4. MANUFACTURER: JAY R. SMITH, JOSAM, MIFAB, PRECISION PLUMBING PRODUCTS (PPP), SIOUX CHIEF, WADE, WATTS, ZURN, OR APPROVED.	APPROVED. SIMILAR TO ACCUMETRIC BOSS 350.		, ,,,,,	609.9. THE METHOD TO BE FOL	LOWED SHALL E	BE THAT PRESCRIBED BY THE HEALTH AUTHORITY OR, IN	
AND FLOORS. INSULATION SHALL BE CO		SIMILAR TO JAY R. SMITH "HYDROTROL" OR PPP "SC" SERIES.	BACKDRAFT DAMPER:			CASE NO METHOD IS PRESCRI A THE PIPE SYSTEM SHALL BE FI	•	FOLLOWING: LEAN, POTABLE WATER UNTIL POTABLE WATER APPEARS	
PENETRATIONS. 5. CAULK BETWEEN PIPE AND SLEEVE AT	PENETRATIONS OF WALLS AND	BALL VALVES 1. TYPE: FULL PORT, 2-PIECE BODY.	FRAME: EXTRUDED ALUMINUM CHANNEL			AT THE POINTS OF OUTLET.	· ·	· ·	
FLOORS WHICH ARE NOT FIRE-RATED.		2. BODY: BRONZE.	 BLADES: EXTRUDED ALUMINUM SEALS: VINYLE EDGE 					ILLED WITH A WATER-CHLORINE SOLUTION CONTAINING LORINE, AND THE SYSTEM OR PART THEREOF SHALL BE	
STOPS AND SUPPLIES: 1. VALVE: CHROME-PLATED BRASS, ANGLI	E PATTERN LOOSE KEY RDASS	 RATED WORKING PRESSURE: MINIMUM OF 150 PSIG STEAM; 400 PSIG WOG. HANDLE: UNINSULATED PIPE: STANDARD LEVER HANDLE. 	MANUFACTURER: RUSKIN, CESCO, DOWCO, GREENHECK, OR, APPROVED, SIMILAR TO	TO RUSKIN	TYPE BD6	VALVED-OFF AND ALLOWED TO	O STAND FOR 24	HOURS; OR, THE SYSTEM OF PART THEREOF SHALL BE	
STEM.	, 20002 RE1, DIVIGO	5. ENDS: THREADED OR SOLDERED.6. STEM AND BALL: STAINLESS STEEL, OR CHROME-PLATED BRONZE OR	FLEXIBLE DUCT CONNECTORS:			CHLORINE AND ALLOWED TO S	STAND FOR 3 HC	DURS.	
 INLET: 1/2 INCH THREADED, FEMALE. INLET NIPPLE: BRASS. 		BRASS. 7. SEAT AND SEALS: TEFLON, TFE, OR BUNA-N.	ASSEMBLY: TWO 3 INCH WIDE STRIPS OF METAL CONNECTED TO 3 INCH WIDE STRIP METAL CTRIPS: 32 CALLOE ALLIMANUM.	IP OF FABRIC	WITH CONTINUOUS CRIMPED SEAMS		•	HE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE E WATER COMING FROM THE SYSTEM DOES NOT EXCEED	
 FLANGE: CHROME-PLATED STEEL. OUTLET: 3/8 INCH COPPER, COMPRESSI 		8. MANUFACTURER: CRANE, WORCESTER, APOLLO, WATTS, HAMMOND, GRINNELL. MILWAUKEE, WKM, JOMAR, OR APPROVED. SIMILAR TO	 METAL STRIPS: 22 GAUGE ALUMINUM FABRIC STRIP: GLASS FABRIC WITH BLACK DUPONT NEOPRENE COATING, FLAME RE 			THE CHLORINE RESIDUAL IN TI	HE FLUSHING W	ATER.	
6. SUPPLY RISER: 3/8 INCH FLEXIBLE COPF CHROME-PLATED, WITH NOSE PIECE AN	PER, NON-CORRUGATED,	GRINNELL, MILWAUKEE, WKM, JOMAR, OR APPROVED. SIMILAR TO HAMMOND MODEL 8301A (THREADED) OR 8311A (SOLDERED).	MANUFACTURER: VENTFABRICS, DURODYNE OR APPROVED. SIMILAR TO DURODYNE	NE "METAL-FA	AB".	D THE PROCEDURE SHALL BE RE BY AN APPROVED AGENCY THA		E IT IS SHOWN BY BACTERIOLOGICAL EXAMINATION MADE FION PERSISTS IN THE SYSTEM.	
SERVED.	and the second second					PIII	ABING C	AL GREEN NOTES	
7. MANUFACTURER: CHICAGO, MCGUIRE, I TO MCGUIRE "HEAVY" H2165LK OR H216								OMS (NOT INCLUDING SLEEPING ROOM UNITS) SHALL BE	
						THE SELF CLOSING TYPE.	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
						2 LAVATORY FAUCETS: 0.5 GPM		MAV)	
						3 TOILETS: ULTRA LOW FLUSH	1 YPE (1.28 GPF	MAX).	
									SHEET TITLE 3C JOB NO: 17063
									MECHANICAL &
									PLUMBING NOTES,
									ABBREVIATIONS &
									SPECIFICATIONS &
									SHEET NUMBER

MECHANICAL GENERAL NOTES

MECHANICAL LEGEND

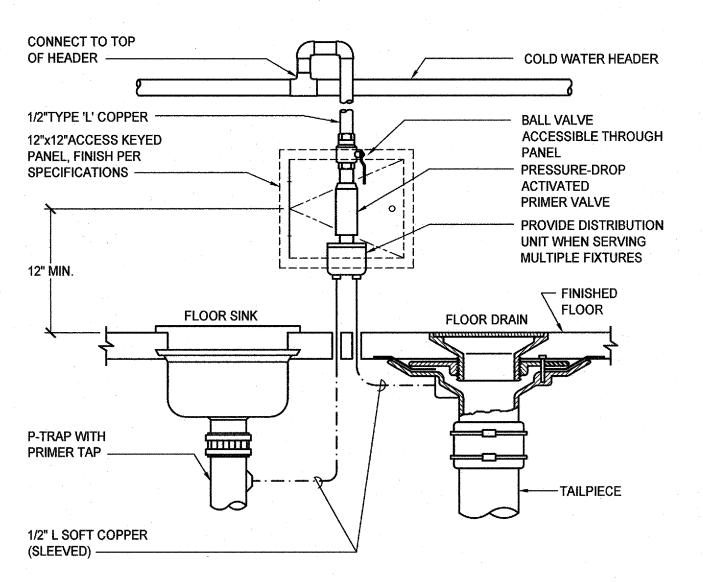
ABBREVIATIONS

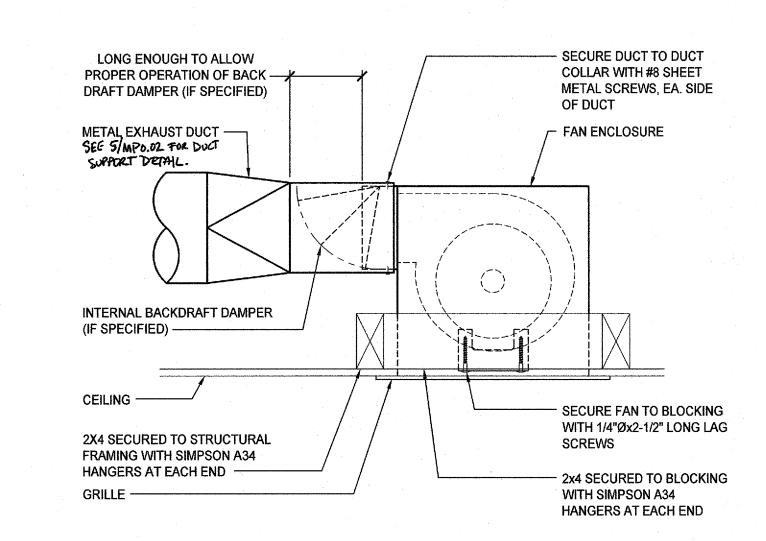
MP0.01

PLUMBING LEGEND

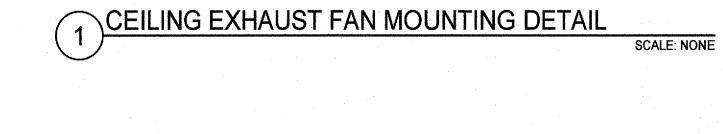
	COMMERCIAL PLUMBING FIXTURE SCHEDULE									
				GH-IN						
SYMBOL	FIXTURE	HW	cw	w	v	REMARKS				
<u>FD-1</u>	FLOOR DRAIN		•	1-1/2"	NA	JR SMITH 20025A OR APPROVED EQUAL.				
LAV-1	LAVATORY - ADA	1/2"	1/2"	2"	1-1/2"	WALL MOUNTED, ADA COMPLIANT LAVATORY, 0.5 GPM AERATOR, PROVIDE POINT OF USE THERMOSTATIC MIXING VALVE (WATTS MINIMIXING OR EQUAL). THERMOSTATIC MIXING VALVES SHALL LIMIT THE OUTLET TEMPERATURE TO 110°F.				
<u>WC-1</u>	WATER CLOSET - ADA	_	1-1/4"	3"	2"	FLOOR MOUNTED, 1.28 GPF, FLUSH VALVE WATER CLOSET WITH ELONGATED BOWL AND OPEN FRONT SEAT. AMERICAN STANDARD MADERA.				
<u>HB-1</u>	HOSE BIB	_	3/4"	_	-	RECESSED IN KEYED WALL BOX. PROVIDE WITH VACUUM BREAKER.				
<u>S-1</u>	SIINK	-	1/2"	2"	1-1/2"	COUNTER MOUNTED, STAINLESS STEEL, SINGLE BASIN, 1.5 GPM AERATOR.				
NOTES:						ID OWNER FOR APPROVAL PRIOR TO PURCHASING FIXTURES. DATA GIVEN IN SCHEDULE S. FIXTURE SELECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.				

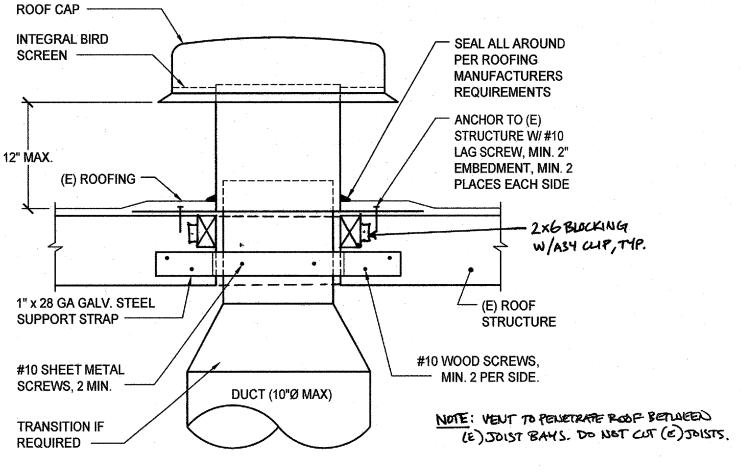
		•				EXH	HAUST FA	AN SCHE	DULE						
					FAN	FAN		MOTOR		A Company of the Comp			DEMARKS	MOUNTING	
TAG	MAKE	MODEL	TYPE	CFM	SP	RPM	SONES	DRIVE	POWER V/ф/HZ	WATT (HP)	BACKDRAFT DAMPER	ROOF CAP	OPERATING WEIGHT LBS	REMARKS SEE BELOW	MOUNTING DETAIL
(EF)	LOREN COOK	GC-166	CEILING	100	0.5	1100	3.0	DIRECT	115/1/60	50	YES	YES	15	C1	1/MP0.02

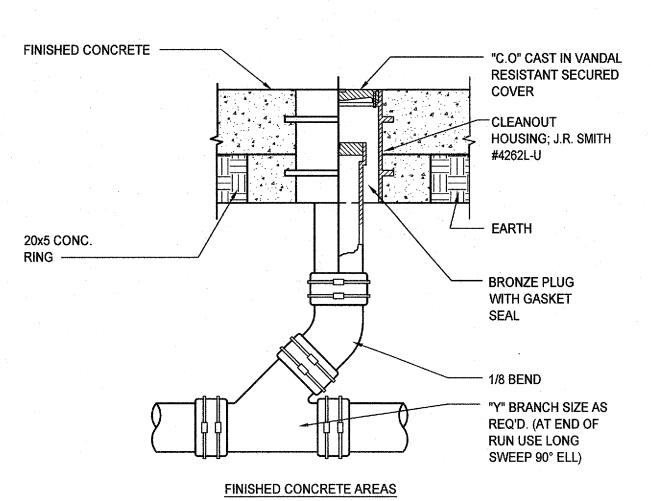




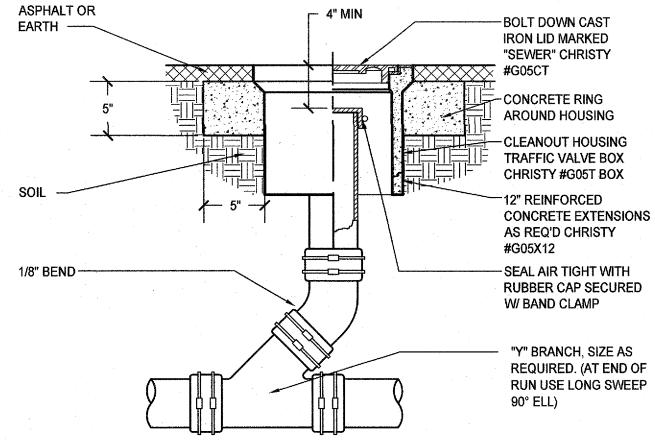
TRAP PRIMER DETAIL SCALE: NONE







ROOF CAP DETAIL SCALE: NONE



(E) STRUCTURE #10 WOOD SCREW, MIN 3 PER SIDE **GALVANIZED STEEL** HORIZONTAL DUCT ASPHALT & LANDSCAPED AREAS

SCALE: NONE

5 EXHAUST DUCT SUPPORT DETAIL

1" x 28 GA GALV. STEEL SUPPORT STRAP (FOR

DIAMETERS UP TO 10") @ 8'-0" O.C. MAX.

CLEANOUT TO GRADE

SCALE: NONE

926 Natoma Street, Suite 200, San Francisco, CA 94103 415.839.6418 / Fax 415.839.7584 1539 Sawtelle Blvd, Suite 14, Los Angeles, CA 90025 310.254.2263

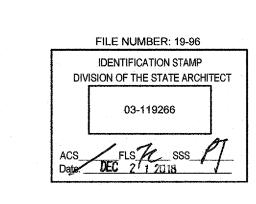
2828 4th Street, Santa Monica, CA 90405 310.399.5865

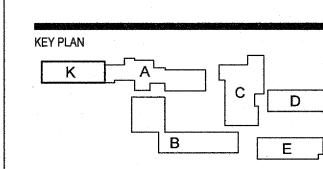
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PROJECT NAME POINT DUME E.S. **TEMPORARY HOUSING**

PROJECT FACILITY INFO POINT DUME ELEMENTARY SCHOOL 6955 Fernhill Dr, Malibu, CA 90265

AGENCY STAMP





PROJECT ISSUE DATE: 2018/12/20

	DATE	NO.	REVISIONS
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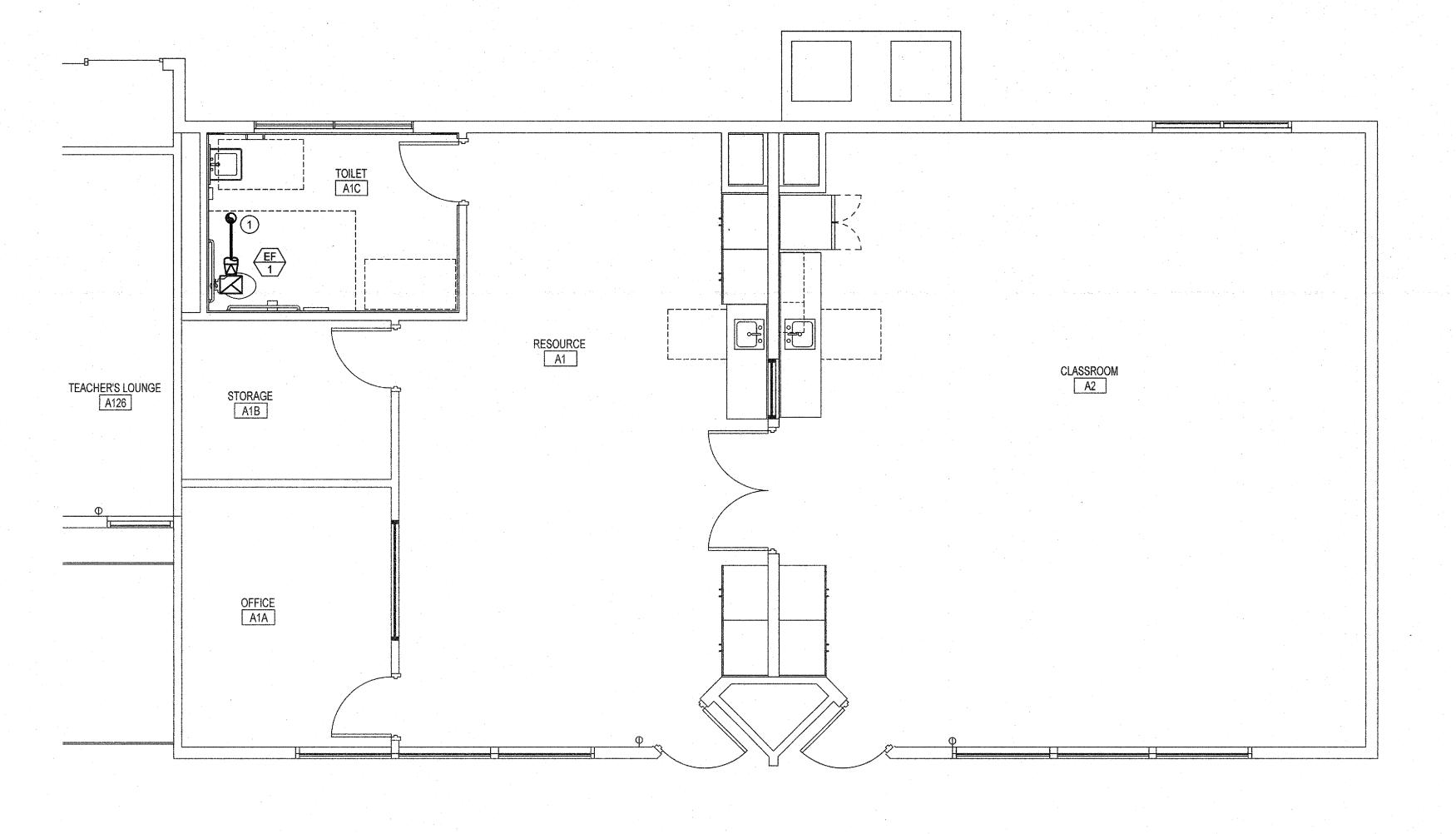
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3C JOB NO: 17063 MECHANICAL & PLUMBING SCHEDULES & DETAILS

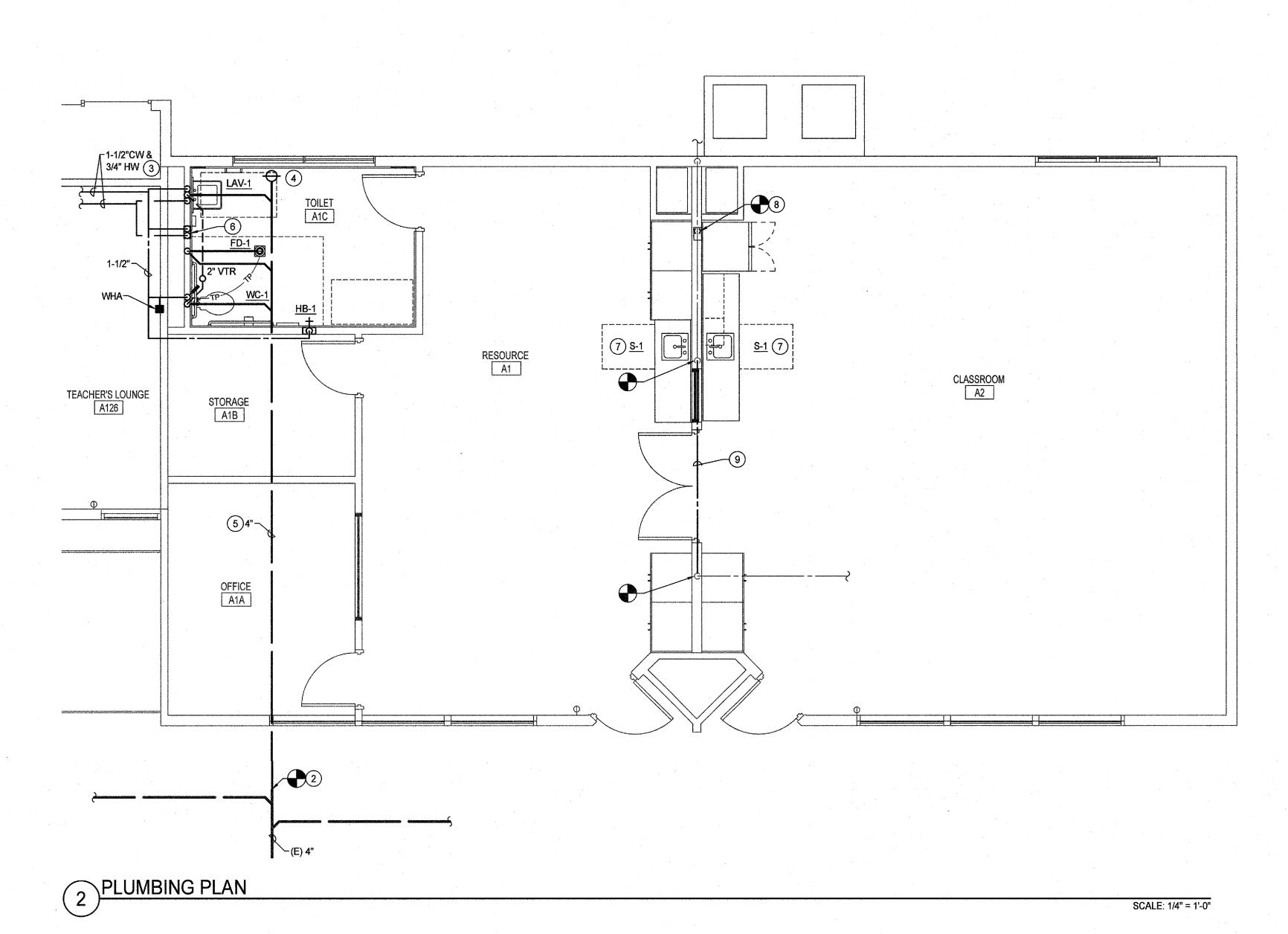
SHEET NUMBER

MP0.02

PM: FB REVIEWER: BS DRAFTER: FB



MECHANICAL PLAN



KEY NOTES

APPLICABLE TO THIS SHEET ONLY

- 1) ROUTE 6"Ø UTR TO ROOF CAP. SEE 4/MP0.02.
- 2) CONNECT (N) 4" WASTE TO (E) 4". FIELD VERIFY EXACT LOCATION.
- CONNECT (N) 1-1/2" CW & 3/4" HW TO (E) 2" CW & 1" HW ABOVE CORRIDOR CEILING. FIELD VERIFY EXACT LOCATION.
- PROVIDE (N) 4" FCO.

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

- 5 SAW CUT (E) CONCRETE SLAB FOR NEW WASTE LINE.
- PROVIDE (N) MIXING VALVE (WATTS LFMMV OR EQUIV.) IN WALL BEHIND ACCESS PANEL. SUPPLY TEMPERED WATER TO (N) LAV. 7) CONNECT (N) SINK TO (E) CW, WASTE & VENT. PROVIDE (N) ANGLE STOPS ON CW.
- 8 PROVIDE (N) REFRIGERATOR ICE MAKER WALL BOX W/ SOV. CONNECT (N) 1/2" CW TO (E) CW LINE IN WALL (FIELD VERIFY).
- 9 RELOCATE/REROUTE (E) CW LINE IN WALL ABOVE (N) DOOR AS NECESSARY (FIELD VERIFY).

WASTE & VENT GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY

- 1 SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH PIPE SIZING.
- 2 SLOPE SANITARY WASTE PIPING MIN 2% IN DIRECTION OF FLOW. 3 | SLOPE VENT PIPING UP TOWARDS VTR MIN 1%.
- PLUMBING VENTS SHALL TERMINATE NOT LESS THAN 6" ABOVE THE ROOF, NOR LESS
 THAN 12" FROM A VERTICAL SURFACE. MAINTAIN 10'-0" CLEARANCE FROM BUILDING AIR

WATER & GAS GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY

- 1 SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH PIPE SIZING.
- 2 PROVIDE ANGLE STOPS FOR ALL PLUMBING FIXTURE BRANCH PIPING LINES.

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310.399.5865



310.254.2263

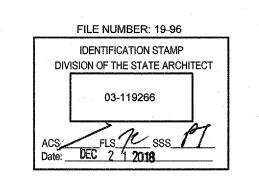
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PROJECT NAME

POINT DUME E.S. TEMPORARY HOUSING PROJECT

FACILITY INFO
POINT DUME ELEMENTARY SCHOOL 6955 Fernhill Dr, Malibu, CA 90265 AGENCY STAMP



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PLUMBING PLANS

SHEET NUMBER

MP1.01