FIXTURE CONNECTION SCHEDULE

SYM.	DESCRIPTION	SOIL OR WASTE	VENT	TRAP	COLD WATER	HOT WATER	GAS	REMARKS
WC-1	WATER CLOSET (FLOOR MTD.)	4"	2"	INTEG	1"	-	-	"KOHLER" K-4350 "WELLCOMME", FLUSH VALVE TOILET, VITREOUS CHINA, 1.6 GPF, ELONGATED BOWL, SIPHON JET, 1-1/2" TOP SPUD. FLUSH VALVE: "SLOAN" OPTIMA 111 ES-S ELECTRONIC SENSOR OPERATED FLUSHOMETER VALVE, SEAT: "OLSONITE" 95CC "COMFORT CURVE" OPEN FRONT SEAT, LESS COVER, INSTALL PER MANUFACTURER'S RECOMMENDATION. PROVIDE EL-154 TRANSFORMER.
WC-2	WATER CLOSET (FLOOR MTD.) (ACC)	4"	2"	INTEG	1"	-		"KOHLER" K-4368 "HIGHCLIFF", FLUSH VALVE TOILET, VITREOUS CHINA, 1.6 GPF, ELONGATED BOWL, SIPHON JET, 1-1/2" TOP SPUD. FLUSH VALVE: "SLOAN" OPTIMA 111 ES-S ELECTRONIC SENSOR OPERATED FLUSHOMETER VALVE, SEAT: "OLSONITE" 95CC "COMFORT CURVE" OPEN FRONT SEAT, LESS COVER, INSTALL PER MANUFACTURER'S RECOMMENDATION. PROVIDE EL-154 TRANSFORMER.
U-1	URINAL	3"	1-1/2"	INTEG	3/4"	-	-	"KOHLER" K-4904-ET "BARDON" HIGH EFFICIENCY URINAL, WALL HUNG, VITREOUS CHINA, 0.125 TO 1 GPF, 2" I.P.S. OUTLET FLANGE AND RUBBER GASKET WITH INTEGRAL TRAP. FLUSH VALVE: "SLOAN" ROYAL OPTIMA 186-1.0 ES-S LOW CONSUMPTION SENSOR ACTIVATED FLUSHOMETER, ¾" TOP SPUD. PROVIDE WITH EL-154 TRANSFORMER. /5
U-2	URINAL (ACC)	3"	1-1/2"	INTEG	3/4"	-	-	"KOHLER" K-4904-ET "BARDON" HIGH EFFICIENCY URINAL, WALL HUNG, VITREOUS CHINA, 0.125 TO 1 GPF, 2" I.P.S. OUTLET FLANGE AND RUBBER GASKET WITH INTEGRAL TRAP. FLUSH VALVE: "SLOAN" ROYAL OPTIMA 186-1.0 ES-S LOW CONSUMPTION SENSOR ACTIVATED FLUSHOMETER, ¾" TOP SPUD. PROVIDE WITH EL-154 TRANSFORMER. MOUNT AT ACCESSABLE HEIGHT. /5
L-1	LAVATORY (COLD WATER (ACC)	2"	1-1/2"	1-1/2"	1/2"	-	-	"KOHLER" K-2210 "CAXTON" UNDERCOUNTER LAVATORY, WITH VITREOUS CHINA, FAUCET LEDGE, 4" CENTER HOLE FAUCET, FAUCET: "SLOAN" FAUCET ETF-80 ELECTRONIC SENSOR OPERATED CONTROL FAUCET, 4" CENTER, 0.5 GPM AERATOR, STRAINER: MCGUIRE 155A GRID STRAINER. "P"TRAP: MCGUIRE #P2150LA "PRO WRAP" SEAMLESS ANTI-MICROBIAL PRE-WRAPPED INSULATED DRAIN FITTING WITH ANGLE STOP AND SUPPLY FLEX RISER, "CHICAGO" # 1017AB-CP ANGLE STOPS. PROVIDE EL-208 TRANSFORMER. /5
L-2	LAVATORY (HOT & COLD WATER (ACC)	2"	1-1/2"	1-1/2"	1/2"	1/2"	-	"KOHLER" K-2210 "CAXTON" UNDERCOUNTER LAVATORY, WITH VITREOUS CHINA, FAUCET LEDGE, 4" CENTER HOLE FAUCET, FAUCET: "SLOAN" FAUCET ETF-80 ELECTRONIC SENSOR OPERATED CONTROL FAUCET, 4" CENTER, 0.5 GPM AERATOR, STRAINER: MCGUIRE 155A GRID STRAINER. "P"TRAP: MCGUIRE #P2150LA "PRO WRAP" SEAMLESS ANTI-MICROBIAL PRE-WRAPPED INSULATED DRAIN FITTING WITH ANGLE STOP AND SUPPLY FLEX RISER, "CHICAGO" # 1017AB-CP ANGLE STOPS, MIXING VALVE : "POWERS" # E480-00. SET TEMPERATURE TO 105°. PROVIDE EL-208 TRANSFORMER. /5
L-3	LAVATORY (HOT & COLD WATER (ACC)	2"	1-1/2"	1-1/2"	1/2"	1/2"	-	"KOHLER" K-2810 "HUDSON" WITH VITREOUS CHINA, FAUCET LEDGE, WALL HANGER, 4" CENTER HOLE FAUCET, FAUCET: "SLOAN" FAUCET ETF-80 ELECTRONIC SENSOR OPERATED CONTROL FAUCET, 4" CENTER, 0.5 GPM AERATOR, STRAINER: MCGUIRE 155A GRID STRAINER. "P" TRAP: MCGUIRE #P2150LA "PRO WRAP" SEAMLESS ANTI-MICROBIAL PRE-WRAPPED INSULATED DRAIN FITTING WITH CHICAGO #1017AB-CP ANGLE STOP AND SUPPLY FLEX RISER, CARRIER: "JAY R. SMITH" # 0727, WALL MOUNTED CONCEALED ARMS. SET TEMPERATURE TO 105°. PROVIDE MIXING VALVE "POWERS" E480-00. PROVIDE EL-208 TRANSFORMER. /5
S-1	SINK (HOT & COLD WATER (ACC)	2"	1-1/2"	1-1/2"	1/2"	1/2"	-	"ELKAY" LRAD1720, 18 GAUGE TYPE 304, STAINLESS STEEL, FAUCET: CHICAGO FAUCET NO. 1100-GN2AE3-317ABCP WITH 4" WRIST BLADE HANDLES, GOOSENECK SPOUT, INTERGRAL 1.6 GPM LAMINAR FLOW CONTROL STRAINERS MOUNTED # 152 WIDE TOP SINK STRAINER. "P" TRAP: MCGUIRE # P#2150LA "PRO WRAP" SEAMLESS ANTI-MICROBIAL PRE-WRAPPED INSULATED DRAIN FITTING WITH ANGLE STOP AND SUPPLY COVER. STOPS AND SUPPLIES: CHICAGO # 1017AB-CP ANGLE STOP WITH 1/2" FEMALE INLET AND 3/8" FLEX RISER. /5
DF-1	DRINKING FOUNTAIN (ACC)	2"	1-1/2"	1-1/2"	1/2"	-	-	"HAWS" #1119.14, STAINLESS STEEL WITH NO.4 SATIN FINISH, TWO DUAL HEIGHT, AND ONE PIECE FOUNTAINS WITH ROUNDED BOWLS, PUSH BUTTON VALVE, POLISH CHROME PLATE BUBBLER HEAD, VANDAL RESISTANT BOTTOM PLATE, WITH ACCESS PANEL. STOPS AND SUPPLIES: CHICAGO #45LK STRAIGHT STOP WITH 1/2" FEMALE INLET AND OUTLET. PROVIDE WITH CARRIER SYSTEM.
FD-1	FLOOR DRAIN	2"	1-1/2"	2"	-	-	-	"MIFAB" F1000-S-3-6-7 (STAINLESS STEEL STRAINER STANDARD), WITH TRAP PRIMER CONNECTIONS.
TP 1	TRAP PRIMER	-	-	-	1/2"	-		"MIFAB" MI-TSP-3 TSP-3 TRAP SEAL PRIMER, FOR USE ON SINGLE DRAIN. USE MI-DU FOR MULTI DRAINS.
HB-1	HOSE BIBB	-	-	-	3/4"	-	-	"ACORN" #8104, CAST CONSTRUCTION, PROVIDE WITH VACUUM BREAKER.
SS-1	SERVICE SINK	3"	2"	3"	1/2"	1/2"	-	"CECO" NO. 871 WITH B71-3 STRAINER, B-872 COATED WIRE RIM GAURD. FAUCET: SPEAKMAN SC-5811-RCP SERVICE SINK FAUCET POLISHED CHROME PLATE FINISH, PAIL HOOK AND WALL SUPPORT, ADJUSTABLE CENTER, VACUUM BREAKER SPOUT, INTEGRAL STOPS.
RD-1 OD-1	ROOF DRAINS OVERFLOW DRAINS	-	-	-	-	-	-	"ZURN" #Z163, ROOF DRAIN OVERFLOW DRAIN COMBINATION, GALVANIZED 5" SIZE.
HB-2	HOSE BIBB EXTERIOR	-	-	-	3/4"	-	-	"ACORN" #8141, CAST CONSTRUCTION, PROVIDE WITH VACUUM BREAKER.

GAS WATER HEATER SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	STORAGE CAPACITY	REC @ 100° △T	INLET TEMP °F	OUTLET TEMP °F	GAS BTUH	GAS FLUE	ELECTRICAL WATTS/VOLTS	OPER WT. LBS.	REMARKS
WH 1	AMERICAN WATER HEATER PGC3-100-199-3NV	ROOF AREA	SINKS AND SERVICES SINKS	100 GALS.	230 GALS.	60	160	199,000	SEE REMARKS	120V/24V	576	UNIT HAS 2" AIR INTAKE AND 2" EXHAUST REFER TO DETAIL 7/P5.00

MISC. PLUMBING EQUIPMENT SCHEDULE

SYM.	DESCRIPTION
XT 1	THERMAL EXPANSION TANK: WILKINS MODEL WXTP-18, OPERATING WEIGHT 10 LBS.
MV 1	"LEONARD" # TM-30-E, MIXING VALVE, MINIMUM FLOW 5 GPM.

NOTE: INSTALL ALL OF THE ABOVE EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

FIRE PROTECTION DEFERRED APPROVAL SUBMITTAL REQUREMENTS

1. SUBMIT DSA APPROVED FIRE WATER SUPPLY PLAN(S).
2. SUBMIT UNDERGROUND PIPING MATERIALS AND TEST CERTIFICATE.
3. SUBMIT CURRENT WATER AVAILABILITY REPORT FROM WATER PURVEYOR (9 MONTHS OF / FROM DEFER SUBMITTAL).
4. SUBMIT MATERIAL LISTS OF ALL COMPONENTS TO BE STAMPED AND SIGNED BY C-16 CONTRACTOR.
5. SUBMIT MANUFACTURE WATER FLOW DATA FOR BACKFLOW DOUBLE DETECTOR CHECK AND / OR WATER METER FOR FIRE SERVICE.
6. ARCHITECT OF RECORDS, MECHANICAL ENGINEER AND FIRE PROTECTION CONTRACTOR (C-16) SHALL SEAL STAMP AND SIGN ALL DRAWINGS.

ROUTING OF M.E.P. AND FIRE PROTECTION

1. ATTENTION TO DETAIL AND CLOSE COORDINATION BETWEEN MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION TRADES SHALL BE REQUIRED DURING ALL PHASES OF CONSTRUCTION.
2. DIVISION 11, 13, 15, AND 16 TRADES SHALL REVIEW AND REFERENCE DRAWINGS AND DOCUMENTS RELATED TO THESE DIVISIONS AS WELL AS ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO GENERATION OF SHOP DRAWINGS AND SUBMITTALS.
3. PIPING, CONDUIT, DUCTWORK AND MISCELLANEOUS SYSTEM COMPONENTS ARE JUXTAPOSED IN VERY CLOSE PROXIMITY TO EACH OTHER. EACH TRADE SHALL PRODUCE SUBMITTAL AND SHOP DRAWINGS CONFIRMING THE ROUTING OF EACH SYSTEM AND COMPONENTS RESPECTIVE TO ITS TRADE AS WELL AS SPACE ALLOCATED TO OTHER TRADES.
4. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY FITTINGS, TRANSITIONS, ELBOWS, AND MATERIALS AS REQUIRED TO AVOID OBSTACLES CREATED BY OTHER TRADES. PIPING, CONDUIT, DUCTWORK AND ASSOCIATED EQUIPMENT ELEVATIONS MAY VARY DUE TO FIELD CONDITIONS.
5. ORDERING, FABRICATION, OR INSTALLATION OF MATERIALS SHALL NOT TAKE PLACE WITHOUT APPROVED SUBMITTAL DRAWINGS CONFIRMING DETAILED INSTALLATION ROUTING AND COORDINATION BETWEEN TRADES.
6. CONFLICTS BETWEEN TRADES AND PROPOSED RESOLUTION SHALL BE IDENTIFIED IN SUBMITTALS AND SHOP DRAWINGS.
7. ANY WORK FOUND TO BE IN CONFLICT WITH OTHER TRADES, NOT DETAILED IN COORDINATION PROCESS DESCRIBED ABOVE, SHALL BE DEMOLISHED AND PROPERLY RE-INSTALLED AT NO ADDITIONAL COST TO THE OWNER.

FIRE SPRINKLER/ SERVICE NOTES:

1. PLANS SHALL BE DESIGNED BY THE "INSTALLING" LICENSED CONTRACTOR (C-16, C-34, C-36, OR GENERAL ENGINEERING CONTRACTOR) OR BY A REGISTERED PROFESSIONAL ENGINEER (CIVIL, MECHANICAL, OR FIRE PROTECTION), LICENSED BY THE STATE OF CALIFORNIA (BOARD OF PROFESSIONAL ENGINEERS). (BUSINESS & PROFESSIONS CODE).
2. INSTALLATION SHALL BE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS "APPROVED" BY THE AUTHORITY HAVE JURISDICTION. (AHJ'S) (NFPA-13, 1-4).
3. INSTALLATION WORK SHALL BE PERFORMED BY FULLY EXPERIENCED AND RESPONSIBLE PERSON. (NFPA-24, 2-6).
4. FIRE DEPARTMENT CONNECTION HOSE CONNECTIONS SHALL BE OF AN APPROVED TYPE, PROPERLY SUPPORTED, AND LOCATED WITHOUT INTERFERENCE FROM NEARBY OBSTRUCTIONS AND ON THE STREET SIDE OF THE BUILDING(S) WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ'S). (NFPA-24, 2-6.10).
5. FIRE DEPARTMENT CONNECTIONS SHALL BE IDENTIFIED BY A SIGN HAVING RAISED LETTERS AT LEAST 1" IN SIZE, CAST ON A PLATE OR FITTING ("AUTO SPKR", "OPEN SPKR", "STANDPIPE"), ETC. (NFPA-24, 2-6.10).
6. PIPING SHALL BE "LISTED" FOR FIRE PROTECTION SERVICE AND COMPLY WITH AWWA STANDARDS, WHERE APPLICABLE. (NFPA-24, 7-1.1)
7. FITTINGS SHALL BE OF AN "APPROVED" TYPE. (NFPA-13, 7-4), REFER TO CIVIL PLANS FOR FIRE SUPPLY PIPING.
8. CONTROL VALVES SHALL BE "LISTED" INDICATING TYPE UNLESS A NON-INDICATING VALVE, SUCH AS AN UNDERGROUND GATE VALVE WITH APPROVED ROADWAY BOX COMPLETE WITH T-WRENCH, IS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION (AHJ'S) (NFPA-24, 8-9.4.2).
9. POST INDICATING VALVES (P.I.V.) SHALL BE TESTED TO ENSURE THAT THE "TARGETS" (OPEN, CLOSED) ARE CLEARLY IDENTIFIED WHEN VALVE IS OPENED AND CLOSED. (NFPA-24, 8-9.4.2).
10. UNDERGROUND PIPING SHALL BE FLUSHED AT THE MINIMUM WATER DEMAND RATE OF THE SYSTEM, OR WHEN SUCH RATE IS NOT VERIFIED OR MET, PIPING SHALL BE FLUSHED AT THE MAXIMUM FLOW RATE AVAILABLE TO THE SYSTEM UNDER FIRE CONDITIONS. (NFPA-24, 8-8.2).
11. PRIVATE FIRE SERVICE MAINS SHALL BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI PRESSURE FOR TWO HOURS, OR AT 50 PSI IN EXCESS OF THE MAXIMUM STATIC PRESSURE WHEN THE MAXIMUM STATIC PRESSURE IS IN EXCESS OF 150 PSI. (NFPA-24, 8-9.3.1) IN ACCORDANCE WITH NFPA 25 - CERTIFICATE OF COMPLETION FOR UNDERGROUND PIPING.
12. TESTS SHALL BE MADE BY THE INSTALLING CONTRACTOR IN THE PRESENCE OF THE AUTHORITY HAVE JURISDICTION (AHJ'S) OR THE REPRESENTATIVE OF THE OWNER. NOTE: AHJ'S SHOULD MAKE KNOWN IF THEY DESIRE TO BE PRESENT. (NFPA-24, 8-9.3.4).
13. PROVIDE A MINIMUM ORDINARY I HAZARD SYSTEM FOR COVERAGE OF MECHANICAL EQUIPMENT ROOM AREAS.
14. PROJECTIONS SHALL BE SPRINKLER PROTECTION. (CANOPY, AND PASSAGEWAYS).

LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	S OR W	SOIL OR WASTE (BELOW GRADE OR FLOOR) PIPING
	S OR W	SOIL OR WASTE (ABOVE GRADE OR FLOOR) PIPING
	V	VENT PIPING
	C/W	DOMESTIC COLD WATER PIPING
	H/W	DOMESTIC HOT WATER PIPING
	H/WR	HOT WATER RETURN PIPING
G	G	LOW PRESSURE GAS PIPING 8 INCH WATER COLUM
CD	CD	CONDENSATE PIPING BELOW ROOF
TP	TP	TRAP PRIMER PIPING BELOW FLOOR
	ASR	AUTOMATIC FIRE SPRINKLER SYSTEM RISER
ASD	ASD	AUTOMATIC FIRE SPRINKLER RISER TEST DRAIN PIPING
AS	AS	AUTOMATIC FIRE SPRINKLER SYSTEM PIPING
RD	RD	ROOF DRAIN PIPING
OD	OD	OVERFLOW DRAIN PIPING
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	FCO	FLOOR CLEANOUT
	W/CO	WALL CLEANOUT
SV	SV	SEISMIC GAS SHUT-OFF VALVE
	COTG	CLEANOUT TO GRADE
	S.O.V.	SHUT-OFF VALVE IN CONCRETE YARD BOX WITH C.I. LID
	TP	TRAP PRIMER IN S.S. VANDAL PROOF ACCESS PANEL
	S.O.V.	SHUT-OFF VALVE IN S.S. VANDAL PROOF ACCESS PANEL
	BV, SOV	SHUT-OFF VALVE OR BALANCING VALVE
	CHV	CHECK VALVE
	GC	GAS COCK, PROVIDE AT EACH GAS SUPPLIED EQUIPMENT
		GAS FLEX CONNECTOR, PROVIDE AT EACH GAS SUPPLIED EQUIPMENT
	HB	HOSE BIBB
	W.H.A.	WATER HAMMER ARRESTOR
100,000		GAS CONSUMPTION, 100,000 BTU/HR INPUT
	POC/POR	POINT OF CONNECTION / POINT OF REMOVAL
	VTR	VENT THRU ROOF
	CFH	CUBIC FOOT PER HOUR
	FLR	FLOOR
	ABV	ABOVE
	BEL	BELOW
	DN	DOWN
	TYP	TYPICAL
	AP	ACCESS PANEL
	GPF	GALLONS PER FLUSH
	CLG	CEILING
	I.E.	INVERT ELEVATION
	N.O.	NORMALLY OPEN
	N.C.	NORMALLY CLOSED
	UTR	UP THRU ROOF
	W/ , W/O	WITH, OR WITHOUT
	NIC	NOT IN CONTRACT
	FFE	FINISHED FLOOR ELEVATION
	A.F.F.	ABOVE FINISH FLOOR
	U.N.O.	UNLESS NOTED OTHERWISE
	BTUH	BRITISH THERMAL UNITS PER HOUR
	CF	CUBIC FOOT
	HDR	PIPE HEADER
//////////////		TO BE DEMOLISHED/ABANDONED. SEE PLANS FOR ADDITIONAL INFORMATION

DRAWING INDEX

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P3.00	PLUMBING ENLARGED FLOOR PLAN
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P5.00	PLUMBING DETAILS
P5.01	PLUMBING DETAILS

UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC TO THE EXTENT THAT SOME ITEMS ARE SHOWN ON PLANS IN A MANNER TO PROVIDE CLARITY. ACTUAL FIELD ROUTING AND INSTALLATION SHALL BE PROVIDED IN COORDINATION WITH OTHER TRADES, FIELD CONDITIONS, AND TO PROPERLY INTERFACE WITH STRUCTURE AND OTHER SYSTEMS TO ACCOMPLISH THE INTENT OF THIS OF THIS DESIGN. LOCATION OF OVERHEAD PIPING MAY VARY, PROVIDED PIPE SIZES INDICATED ARE ADHERED TO. COORDINATE LOCATIONS OF ALL FIXTURES, ACCESS PANELS, AND OTHER VISIBLE ITEMS WITH ARCITECT. FIELD VERIFY ALL DIMENSIONS, LOCATIONS, AND CONDITIONS PRIOR TO COMMENCEMENT OF WORK AND ORDERING OF MATERIALS. MAKE ALL ACCOMMODATIONS NECESSARY TO PROVIDE PROPER AND FULLY FUNCTIONING SYSTEMS AS INTENDED BY THESE DRAWINGS AND SPECIFICATIONS.
2. WORK SHALL CONFORM TO ALL APPLICABLE CODES.
3. SOIL, AND WASTE DRAIN PIPING SHALL HAVE A MINIMUM 1/4" PER FOOT SLOPE. U.N.O.
4. CALORIC VALUES FOR GAS ARE BASED ON 1,000 BTU/CF.
5. COORDINATE WORK SHOWN ON THESE SHEETS WITH MECHANICAL, ELECTRICAL, CIVIL, STRUCTURAL, AND ARCHITECTURAL SHEETS, AS WELL AS ALL OTHER TRADES.
6. THE LOCATION AND ELEVATION OF ALL PLUMBING PIPING SHALL BE VERIFIED AND COORDINATED WITH ALL OTHER TRADES, STRUCTURAL CONDITIONS AND BUILDING CONSTRUCTION PRIOR TO START OF INSTALLATION.
7. BARRIER FREE DIMENSIONS SHALL MEET CURRENT APPLICABLE GOVERNING CODES. LOCATIONS SHOWN ARE APPROXIMATE. REFER TO ARCHITECTURAL PLANS FOR ALL LOCATION AND ROUGH-IN DIMENSIONS.
8. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL PLUMBING FIXTURES, DRAINS AND EQUIPMENT.
9. REFER TO ARCHITECTURAL FINISH SCHEDULE FOR FLOOR FINISHES FOR TYPICAL SETTINGS OF FIXTURES.
10. H/W, H/WR, C/W, VENT AND GAS PIPING SHOWN SHALL BE ROUTED ABOVE CEILING. U.N.O.
11. WASTE PIPING SHOWN SHALL BE ROUTED BELOW FINISHED FLOOR. U.N.O.
12. COORDINATE AND VERIFY WITH STRUCTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL GRADE BEAMS AND FOOTINGS. PROVIDE AND INSTALL SLEEVES THROUGH FOOTINGS AS REQUIRED IN ACCORDANCE WITH ALL REQUIREMENTS OF STRUCTURAL PLANS. OBTAIN STRUCTURAL ENGINEER'S DIVISION OF THE STATE ARCHITECT PRIOR APPROVAL FOR ANY REQUIRED SLEEVING NOT MEETING CONDITIONS INDICATED ON STRUCTURAL PLANS/SLEEVING DETAILS.
13. COORDINATE AND VERIFY ALL LOCATIONS, SIZES AND ELEVATIONS OF ALL SLEEVES THROUGH SLABS AND FOOTINGS WITH STRUCTURAL ENGINEER PRIOR TO STARTING INSTALLATION OF THE PLUMBING SYSTEM.
14. WALL CLEANOUTS, TRAP PRIMERS AND WATER HAMMER ARRESTORS SHALL BE LOCATED ABOVE THE FLOOD RIM LEVEL OF FIXTURES SERVED. U.N.O.
15. VALVES, COCKS, WALL CLEANOUTS, WATER HAMMER ARRESTORS, AND TRAP PRIMERS SHALL BE PROVIDED WITH FLUSH MOUNTED VANDAL PROOF STAINLESS STEEL ACCESS PANELS INSTALLED IN A READILY ACCESSIBLE LOCATION AND HANDICAP STALL WERE IT IS POSSIBLE.
16. WHERE TRAP PRIMERS ARE INDICATED ON PLANS, CONTRACTOR SHALL ROUTE 1/2" TYPE "L" COPPER TUBE FROM TRAP PRIMER, DOWN TO BELOW FINISHED FLOOR AND ACROSS FLOOR AT A MINIMUM 1/4" PER FOOT SLOPE TO CONNECTION TO FLOOR DRAIN.
17. VENTS THROUGH ROOF SHALL BE 10'-0" MINIMUM AWAY FROM ANY FRESH AIR INTAKE OR WINDOW.
18. PROVIDE STOP VALVES ON ALL DOMESTIC WATER SUPPLY PIPING TO FIXTURES AT EACH FIXTURE LOCATION.
19. PROVIDE SHUT-OFF COCK VALVE ON ALL NATURAL GAS SUPPLY PIPING CONNECTIONS TO EQUIPMENT AT EACH EQUIPMENT LOCATION. ALL SUCH CONNECTIONS SHALL TERMINATE WITH AN APPROVED FLEXIBLE CONNECTOR.
20. PROVIDE ALL NECESSARY EQUIPMENT, ACCESSORIES AND INSTALLATION PROCEDURES, PER MANUFACTURER'S RECOMMENDATIONS TO ENSURE FULL AND PROPER FUNCTIONING OF SYSTEMS DESCRIBED IN THESE DRAWINGS, AND MAKE FIELD ADJUSTMENTS AS REQUIRED. ALL SUCH ADJUSTMENTS AND ACCESSORIES SHALL BE PROVIDED AT NO EXTRA COST TO OWNER.
21. VERIFY AND COORDINATE TO ENSURE ADEQUACY OF INVERT ELEVATIONS AT ALL POINTS OF CONNECTION AND AREAS OF INTERFACE WITH STRUCTURE PRIOR TO ORDERING OF MATERIALS AND INSTALLATION.
22. INSTALL ALL ACCESS PANELS WITHIN TOILET ROOMS, SO AS NOT TO CONFLICT WITH ANY TOILET ACCESSORIES, GRAB BARS, ETC.
23. WHENEVER SPECIFICATIONS OR DRAWING ITEMS ARE SPECIFIED, NOTED OR DRAWN WITH MULTIPLE AND/OR CONFLICTING REQUIREMENTS, THE MOST STRINGENT REQUIREMENTS SHALL APPLY. (TYP.)
24. CONTRACTOR SHALL INSTALL ALL NEW PIPING AS INDICATED PER PLANS. ALL SUCH PIPING SHALL BE COORDINATED WITH MECHANICAL DUCT WORK, EQUIPMENT AND AS WELL WITH OTHER TRADES PRIOR TO COMMENCEMENT OF WORK. WHERE CONFLICTS OCCUR WITH MECHANICAL OR OTHER TRADES, CONTRACTOR SHALL PROVIDE AND INSTALL NECESSARY PIPING, FITTINGS, COMPONENTS, AND REROUTE PIPING IN SUCH A MANNER TO AVOID INTERFERENCE WITH ALL TRADES.
25. REFER TO PLUMBING DETAIL SHEETS FOR TYPICAL PIPING HANGER DETAILS, PENETRATIONS THROUGH FLOOR AND WALLS.
26. PROVIDE ADA INSULATION COVERS "MCGUIRE" PRO-WRAP STEAMLESS OR EQUAL FOR ALL FIXTURE P-TRAPS, AND ANGLE STOPS.

ENERGY REQUIREMENTS NOTES:

1. CONTRACTOR SHALL PROVIDE STATEMENTS INDICATING THAT THE INSTALLED DEVICES CONFORM TO THE STATE OF CALIFORNIA APPLIANCE STANDARDS, CHAPTER 2-53 OF THE TITLE 24, AND THESE PLANS AND SPECIFICATIONS.
2. CONTRACTOR SHALL PROVIDE THE OWNER WITH A LIST OF THE DOMESTIC WATER HEATING SYSTEMS AND THE FEATURES, COMPONENTS, AND MECHANICAL DEVICES INSTALLED, AND ALSO PROVIDE INSTRUCTIONS ON HOW TO USE THESE DEVICES EFFICIENTLY.
3. WATER HEATERS SHALL BE CERTIFIED AND LISTED BY THE CALIFORNIA ENERGY COMMISSION.
4. HOT WATER PIPING SHALL BE INSULATED WITH INSULATION HAVING A MINIMUM THERMAL RESISTANCE OF R-3. SUCH INSULATION SHALL BE 1" THICKNESS FOR 2" AND LESS DIAMETER PIPING AND 1-1/2" THICKNESS FOR 2-1/2" AND GREATER DIAMETER PIPING.
5. LAVATORY FAUCETS AND SINKS SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY STANDARDS.
6. CLEARANCES TO BE PER MANUFACTURER'S LISTINGS ON ALL MECHANICAL AND ELECTRICAL EQUIPMENT.
7. SEAL PLUMBING PENETRATIONS BETWEEN WALL SOLEPLATES, FLOORS, AND ALL OTHER PIPE OPENINGS IN THE BUILDING.

MECHANICAL & ELECTRIC EQUIPMENT ANCHORAGE NOTES:

A.) THE SEISMIC ANCHORAGE FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE DESIGNED TO WITHSTAND A LATERAL FORCE:

1. CALCULATED AS SPECIFIED IN SECTION 1632A AND TABLE 16A-O OF THE VOL. 2, TITLE 24 2001 UBC.
2. IN LIEU OF CALCULATIONS PER 1- THE ANCHORAGE SHALL BE CAPABLE OF WITHSTANDING A LATERAL FORCE EQUAL TO 2.2 WP ACTING SIMULTANEOUSLY WITH A VERTICAL FORCE =EQUAL TO 0.72WP (BOTH FORCES AT SERVICE LEVEL, THESE VALUES CORRESPOND TO AN IP=1.15 AND CA=0.66, FOR OTHER VALUES OF IP AND CA, THE LATERAL AND VERTICAL FORCE CAN BE ADJUSTED ACCORDINGLY)

=INCLUSION OF VERTICAL FORCE PER TABLE 16A-O FOOTNOTE 20 (FOR EMERGENCY POWER SUPPLIES AND COMMUNICATIONS EQUIPMENT ONLY)

B.) THE CAPACITY OF THE ANCHORAGE CONNECTORS IN SHEAR AND OR TENSION SHALL BE CLEARLY INDICATED IN THE CALCULATIONS, WHICH INDICATE, ICBO REPORT NO. (IF APPLICABLE) THEIR TOTAL NUMBER, SIZE, GRADE EMBEDMENT, EDGE DISTANCES, AND OTHER FACTORS WHICH AFFECT THE CAPACITY IN SHEAR AND TENSION.

PIPING MATERIALS

1.	SOIL AND WASTE PIPING BELOW GROUND :	SERVICE WEIGHT NO-HUB CAST IRON WITH 4-BAND STAINLESS STEEL COUPLINGS. WRAP ALL UNDERGROUND PIPING WITH POLYETHYLENE ANTI-CORROSIVE PIPE WRAP TAPE.
2.	SOIL , WASTE AND VENT PIPING ABOVE GROUND :	SERVICE WEIGHT NO-HUB CAST IRON PIPE AND FITTINGS WITH 4-BAND STAINLESS STEEL COUPLINGS .
3.	WATER PIPING BELOW GROUND : WATER PIPING BELOW BUILDING	TYPE 'K' COPPER WITH BRAZED JOINTS. TYPE "K" COPPER, NO JOINTS ALLOWED.
4.	WATER PIPING ABOVE GROUND :	TYPE 'L' COPPER WITH SOLDERED JOINTS.
5.	INSULATION OF DOMESTIC HOT WATER	GLASS FIBER PIPE INSULATION WITH FACTORY APPLIED WHITE JACKET, J-M MICRO-LOK 750AP ,1 INCH THICK FOR PIPE SIZES 1 INCH AND BELOW, AND 1-1/2 INCHES THICK FOR PIPE SIZES 1-1/4 INCHES AND LARGER.
6.	GAS FUEL PIPE CONCEALED ABOVE GRADE: GAS FUEL PIPE EXPOSED:	SCHEDULE 40 A-53 BLACK STEEL PIPE W/M.I. SCREWED FITTINGS. SCHEDULE 40 A-53 GALVANIZED STEEL PIPE W/GALVANIZED M.I. SCREWED FITTINGS.
7.	CONDENSATE:	TYPE "L" COPPER.
8.	INSULATION OF DOMESTIC HOT WATER	GLASS FIBER PIPE INSULATION WITH FACTORY APPLIED WHITE JACKET, J-M MICRO-LOK 750AP, 1 INCH THICK FOR PIPE SIZES 1 INCH AND BELOW, 1-1/2" THICK FOR PIPE SIZES 1-1/4 INCHES AND LARGER.
9.	REFER TO SPEC. SECTION 15110 FOR ALL VALVE REQUIREMENTS.	
10.	ALL OF THE ABOVE SHALL COMPLY WITH THE SPECIFICATIONS.	

SADDLEBACK COLLEGE

gkkworks
2355 Main Street Suite 220
Irvine | CA 92614
949 250 1500
949 955 2708 fax

Architect Seal

Consultant and Seal

REGISTERED PROFESSIONAL ENGINEER — JAMES A. FUNDAMENT — No. E4901 — Exp. 9-30-10 — MECHANICAL — STATE OF CALIFORNIA

Fundament & Associates Inc.
Engineering Consultants
28 Executive Park, Suite 100, Irvine CA 92614 (949) 251-1131

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JAMES B. UTT MEMORIAL LEARNING RESOURCE CENTER RENOVATION

28000 Marguerite Parkway
Mission Viejo, California 92692

Checked By | Drawn By

Sheet Title

PLUMBING SCHEDULES, LEGENDS, AND NOTES

Sheet Number

P0.01

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