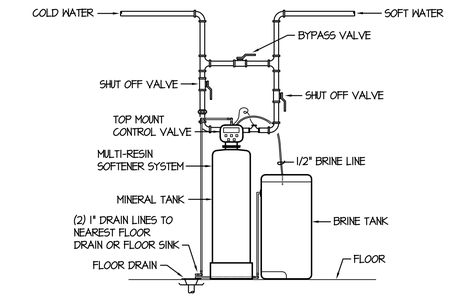
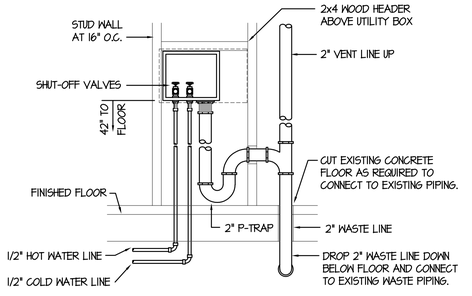
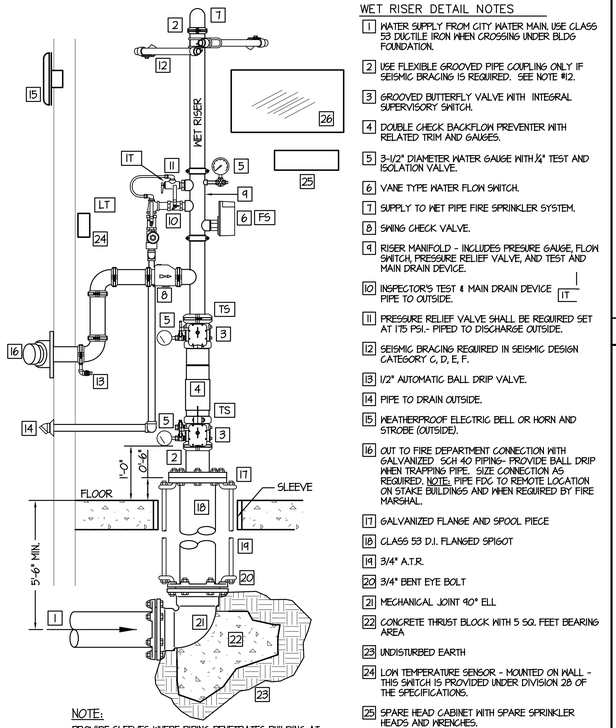


A | WATER SOFTENER PIPING DIAGRAM | NO SCALE



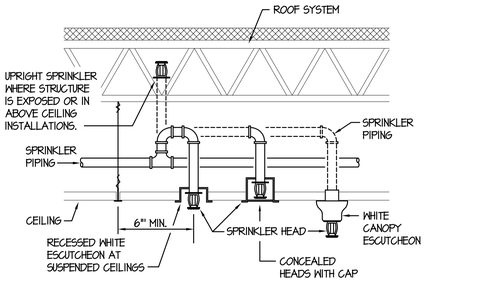
B | WASHER BOX PIPING DETAIL | NO SCALE



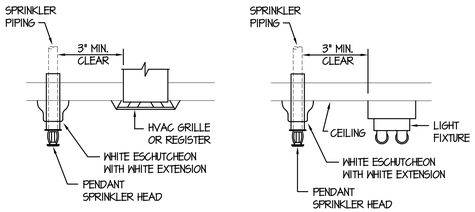
WET RISER DETAIL NOTES

1. WATER SUPPLY FROM CITY WATER MAIN. USE CLASS 53 DUCTILE IRON WHEN CROSSING UNDER BLDG FOUNDATION.
2. USE FLEXIBLE GROOVED PIPE COUPLING ONLY IF SEISMIC BRACING IS REQUIRED. SEE NOTE #12.
3. GROOVED BUTTERFLY VALVE WITH INTEGRAL SUPERVISORY SWITCH.
4. DOUBLE CHECK BACKFLOW PREVENTER WITH RELATED TRIM AND GAUGES.
5. 3-1/2" DIAMETER WATER GAUGE WITH ¼" TEST AND ISOLATION VALVE.
6. VANE TYPE WATER FLOW SWITCH.
7. SUPPLY TO WET PIPE FIRE SPRINKLER SYSTEM.
8. SWING CHECK VALVE.
9. RISER MANIFOLD - INCLUDES PRESSURE GAUGE, FLOW SWITCH, PRESSURE RELIEF VALVE, AND TEST AND MAIN DRAIN DEVICE.
10. INSPECTOR'S TEST & MAIN DRAIN DEVICE - PIPE TO OUTSIDE. (IT)
11. PRESSURE RELIEF VALVE SHALL BE REQUIRED SET AT 175 PSI.- PIPED TO DISCHARGE OUTSIDE.
12. SEISMIC BRACING REQUIRED IN SEISMIC DESIGN CATEGORY C, D, E, F.
13. 1/2" AUTOMATIC BALL DRIP VALVE.
14. PIPE TO DRAIN OUTSIDE.
15. WEATHERPROOF ELECTRIC BELL OR HORN AND STROBE (OUTSIDE).
16. CUT TO FIRE DEPARTMENT CONNECTION WITH GALVANIZED SCH 40 PIPING- PROVIDE BALL DRIP WHEN TRAPPING PIPE. SIZE CONNECTION AS REQUIRED. NOTE: PIPE FDC TO REMOTE LOCATION ON STAKE BUILDINGS AND WHEN REQUIRED BY FIRE MARSHAL.
17. GALVANIZED FLANGE AND SPOOL PIECE
18. CLASS 53 D.I. FLANGED SPIGOT
19. 3/4" A.T.R.
20. 3/4" BENT EYE BOLT
21. MECHANICAL JOINT 90° ELL
22. CONCRETE THRUST BLOCK WITH 5 SQ. FEET BEARING AREA
23. UNDISTURBED EARTH
24. LOW TEMPERATURE SENSOR - MOUNTED ON WALL - THIS SWITCH IS PROVIDED UNDER DIVISION 28 OF THE SPECIFICATIONS.
25. SPARE HEAD CABINET WITH SPARE SPRINKLER HEADS AND WRENCHES.
26. LAMINATED SYSTEM MAP WITH SYSTEM START-UP AND SHUT-DOWN INSTRUCTIONS.

D | FIRE RISER DIAGRAM | NO SCALE



C | SPRINKLER HEAD PLACEMENT DETAIL | NO SCALE



E | SPRINKLER HEAD COORDINATION DETAILS

F | - | NO SCALE

G | -

FIXTURE SCHEDULE

SYM.	DESCRIPTION	HOT	COLD	WASTE	VENT
DF-1	BI-LEVEL DRINKING FOUNTAIN - ELKAY MODEL LZSTL8WSLK WITH BOTTLE FILLER STATION AND FILTER, FRONT BAR OPERATORS, 1/2" STOP, 1-1/2" P-TRAP, AND FLEX-GUARD SAFETY BUBBLER.	---	1/2"	1-1/2"	1-1/2"
EW-1	WALL MOUNTED EYE WASH STATION - HAWS MODEL 7260BT WITH PUSH-OPEN BALL VALVE, EYE WASH BOWL, 1/2" SUPPLY LINE AND 1-1/2" WASTE LINE PIPED TO ADJACENT SERVICE SINK. REFER TO DETAIL D/P3.1 FOR TYPICAL INSTALLATION.	---	1/2"	TO (JS-1)	---
FD-1	2" FLOOR DRAIN - ZURN Z-400-5 WITH 5"ø NICKEL-BRONZE STRAINER AND 2" DEEP SEAL P-TRAP. RUN 1/2" COLD WATER LINE TO TRAP PRIMER. REFER TO DETAIL J/P3.1 FOR TYPICAL INSTALLATION.	---	---	2"	2"
FS-1	FLOOR SINK - ZURN Z-1900-3 WITH 3/4" GRATE WHITE ENAMEL FINISH, DOME STRAINER AND 4" DEEP SEAL P-TRAP. RUN 1/2" COLD WATER LINE TO TRAP PRIMER. REFER TO DETAIL M/P3.1 FOR TYPICAL INSTALLATION.	---	---	4"	2"
GM-1	COMPRESSED GAS TANK MANIFOLD - PROVIDE AND INSTALL GAS TANK MANIFOLD WITH (2) BOTTLE CONNECTIONS. (SEE DETAIL D/P3.1) MANIFOLD PIPING IS TO BE 3/4".	---	---	---	---
HB-1	EXTERIOR HOSE BIBB - ZURN Z-1310 "ECOLOTROL" WITH REMOVABLE HANDLE AND VACUUM BREAKER. LENGTH TO SUIT WALL THICKNESS. REFER TO DETAIL H/P3.1 FOR TYPICAL INSTALLATION.	---	3/4"	---	---
JS-1	FLOOR SERVICE SINK - KOHLER K-6710 "WHITBY" WITH K-8940 WIRE RIM GUARD, K-8142 STRAINER AND 2" DEEP SEAL P-TRAP; MOUNT K-8408-CP FAUCET ON WALL WITH VACUUM BREAKER, WALL BRACE, AND PAIL HOOK. PROVIDE 5'-0" RUBBER HOSE AND WALL CLIP.	1/2"	1/2"	2"	2"
L-1	WALL MOUNTED LAVATORY - KOHLER K-20382-N (SIZE 20x18) "GREENWICH" WITH K-7115 STRAINER, SLOAN EBF-85 INFRARED FAUCET (BATTERY), 1/2" STOPS, 1-1/2" P-TRAP, AND WALL CARRIER. PROVIDE INSULATING JACKET ON WASTE AND HOT WATER LINES.	1/2"	1/2"	1-1/2"	1-1/2"
OF-1	3" OVERFLOW DRAIN - JAY R. SMITH MODEL 1080 WITH UNDER DECK CLAMP, DOME STRAINER, 2" HIGH WATER DAM, AND 3" DRAIN LINE CONNECTION. REFER TO DETAIL C/P3.1 FOR TYPICAL INSTALLATION.	---	---	3"	---
OF-2	4" OVERFLOW DRAIN - JAY R. SMITH MODEL 1080 WITH UNDER DECK CLAMP, DOME STRAINER, 2" HIGH WATER DAM, AND 4" DRAIN LINE CONNECTION. REFER TO DETAIL C/P3.1 FOR TYPICAL INSTALLATION.	---	---	4"	---
RD-1	3" ROOF DRAIN - JAY R. SMITH MODEL 1010 WITH UNDER DECK CLAMP, DOME STRAINER, AND 3" DRAIN LINE CONNECTION. REFER TO DETAIL C/P3.1 FOR TYPICAL INSTALLATION.	---	---	3"	---
RD-2	4" ROOF DRAIN - JAY R. SMITH MODEL 1010 WITH UNDER DECK CLAMP, DOME STRAINER, AND 4" DRAIN LINE CONNECTION. REFER TO DETAIL C/P3.1 FOR TYPICAL INSTALLATION.	---	---	4"	---
RP-1	HOT WATER RECIRC PUMP - B&G SERIES LR-20BF "LITTLE RD" WITH 4 GPM FLOW AT 8' HEAD AND 3/4" LINE CONNECTIONS. MOUNT NEAR WATER HEATER. REFER TO DETAIL M/P3.1 FOR TYPICAL PIPE CONNECTIONS.	3/4"	---	---	---
S-1	SINGLE COMPARTMENT SINK - ELKAY MODEL LR-1715 WITH LK-4066N0514 GOOSENECK FAUCET WITH WRIST BLADE HANDLES, LK-35 DUO-STRAINER, 1/2" STOPS, AND 1-1/2" P-TRAP.	1/2"	1/2"	1-1/2"	1-1/2"
S-2	UTILITY SINK - ELKAY MODEL LR-1715 WITH LK-4066N0514 GOOSENECK FAUCET WITH WRIST BLADE HANDLES, LK-35 DUO-STRAINER, 1/2" STOPS, AND 1-1/2" P-TRAP.	1/2"	1/2"	1-1/2"	1-1/2"
S-3	TRIPLE COMPARTMENT SINK - ELKAY LTR4622 WITH (2) LK-LK800508T4 SWING FAUCETS WITH WRIST BLADE HANDLES, (3) LK-35 DUO-STRAINER, 1/2" STOPS AND SINGLE 1-1/2" P-TRAP.	1/2"	1/2"	1-1/2"	1-1/2"

FIXTURE SCHEDULE

SYM.	DESCRIPTION	HOT	COLD	WASTE	VENT
S-4	SCRUB SINK - ELKAY LR2522 WITH 8" DEEP BOWL COMPLETE WITH SLOAN ETF-700 GOOSE-NECK FAUCET WITH INFRARED CONTROL, UNDER COUNTER THERMOSTATIC VALVE, CONTROL MODULE AND TRANSFORMER. PROVIDE LK-491 DUO STRAINER, 1/2" STOPS & 1-1/2" P-TRAP.	1/2"	1/2"	2"	2"
S-5	UTILITY SINK - KOHLER K-6676-0 "TYRRELL" WITH K-7394-3-CP WALL MOUNTED WRIST CONTROL FAUCET, K-8435 RIM GUARD. PROVIDE SLOAN ROYAL BPW-1000 FLUSH VALVE WITH BED PAN WASHER.	1/2"	1" & 1/2	4"	2"
S-6	UNDER COUNTER SINK - ELKAY MODEL EFRU3918OT UNDER DECK SINK COMPLETE WITH LK-8005N0416 GOOSENECK FAUCET WITH WRIST BLADE HANDLES, LK-35 DUO-STRAINER, 1/2" STOPS, AND 1-1/2" P-TRAP	1/2"	1/2"	1-1/2"	1-1/2"
SP-1	SUMP PUMP - GROUNDFOS UNILIFT KP250AI AT 12' HEAD. INSTALL IN 18"ø CONCRETE PIPE WITH FLOAT SWITCH OPERATORS AND 2" DISCHARGE LINE WITH CHECK VALVE. PROVIDE 8'-0" LONG CORD (120V-1) 1/3 H.P.	1/2"	1/2"	1-1/2"	1-1/2"
SH-1	ADA PRE-FAB SHOWER STALL - FREEDOM MODEL APF3838BF4P.5, COMPLETE WITH GRAB BARS, FOLD-UP SEAT, HAND-HELD SHOWER ASSEMBLY WITH SLIDE BAR, PRESSURE BALANCING MIXING VALVE, SOAP DISH, CURTAIN ROD AND SHOWER CURTAIN, AND PERFORATED DRAIN WITH 2" DEEP SEAL P-TRAP.	1/2"	1/2"	2"	2"
TP-1	TRAP PRIMER - ZURN Z-1020XL TRAP PRIMER SYSTEM. MOUNT RECESSED IN WALL WITH COVER. RUN 1/2" COLD WATER LINE TO EACH TRAP AS SHOWN ON FLOOR PLANS. REFER TO DETAIL J/P3.1 FOR INSTALLATION.	---	1/2"	---	---
U-1	URINAL - KOHLER MODEL 4484-T "FRESHMAN" WITH SLOAN 8186 OPTIMA PLUS BATTERY POWERED SENSOR FLUSH VALVE AND WALL CARRIER. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT	---	3/4"	2"	2"
W-1	WASHING MACHINE HOOK-UP - GUY GREY MODEL FB200 WITH 1/2" STOPS W/ THREADED HOSE CONNECTIONS AND 2" STAND PIPE WITH 2" P-TRAP. SEE DETAIL B/P3.2 FOR TYPICAL INSTALLATION.	1/2"	1/2"	2"	2"
WC-1	ADA FLUSH VALVE WATER CLOSET - KOHLER K-4368 "HIGHCLIFF" WITH ELONGATED BOWL, K-4670C OPEN FRONT SEAT, SLOAN 8111 OPTIMA PLUS (BATTERY POWERED) SENSOR FLUSH VALVE AND BOLT CAPS.	---	1"	4"	2"
WF-1	3" WALL FLANGE - JAY R. SMITH MODEL 1710 WITH ROUGH-BRONZE FINISH AND WALL FLANGE. MOUNT AS HIGH AS POSSIBLE.	---	---	3"	---
WF-2	4" WALL FLANGE - JAY R. SMITH MODEL 1710 WITH ROUGH-BRONZE FINISH AND WALL FLANGE. MOUNT AS HIGH AS POSSIBLE.	---	---	4"	---
WH-1	WATER HEATER - A.O. SMITH MODEL ECL-50 WITH 50 GALLON CAPACITY, (2) 4.5 KW NON-SIMILTANEOUS ELEMENTS (208/60/1), 3/4" SUPPLIES AND T&P RELIEF VALVE, EXPANSION TANK, HEAT TRAP NIPPLES AND SYMMONS T-200 MIXING VALVE. SEE DETAIL M/P3.1	3/4"	3/4"	---	---
WS-1	WATER SOFTENER - WATER TECH INDUSTIRES RS1805-245204 SIMPLEX UNIT WITH CONTROL SYSTEM WITH METERS 100-150,000 GRAINS EXCHANGE CAPACITY AND 63 GPM CONTIUOUS FLOW RATE AT 15 psi PRESSURE DROP (120/60/1).	2"	2"	---	---

ORIGINAL DRAWING SIGNED BY DIMONE C. SUDWEEKS
DATE ORIGINAL SIGNED: JUNE 2019
ORIGINAL ON FILE AT: ENGINEERED SYSTEMS ASSOCIATES
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PRELIMINARY DRAWING NOT FOR CONSTRUCTION

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DRAWING TITLE: PLUMBING SCHEDULE AND DETAILS

REVISION:

#	DATE	COMMENT

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CHECKED BY: M JENSEN
DATE: AUGUST 2019
PLOT DATE: Aug 12, 2019

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