22038.1 PERMIT SET 10/18/2024			
2 PERM 10/1			DR
			UNLESS OTHERWISE IND ZURN, JOSAM, MIFAB, W
			LAVATORY-WALL HUNG S JAY R. SMITH #700 FOR M ELECTRIC WATER COOLI
E			JAY R. SMITH FIG. 830 SU STEEL STUD WALLS, USE WATER CLOSET-WALL HU
			JAY R. SMITH FIG. 230 VE URINAL-WALL HUNG SUP
			JAT R. SMITH FIG. 609 FL <u>CO</u> - EXPOSED CLEANOU JAY R. SMITH FIG. 4420 C
			WCO - WALL CLEANOUT - JAY R. SMITH FIG. 4436 C
			COVER WITH SECURING <u>FCO</u> - CONCRETE FLOOR JAY R. SMITH FIG. 4220 C
			ROUND CAST IRON TOP <u>FCO</u> - TILE FLOORS JAY R. SMITH FIG. 4151 C
_			ROUND NICKEL BRONZE
			JAY R. SMITH FIG. 4020-Y BRONZE TOP COMPLETE CONNECTION.
			YCO - EXTERIOR PAVED/ JAY R. SMITH FIG. 4261 C THREADED PLUG, V.P. SC
			YCO - EXTERIOR UNSUR JAY R. SMITH FIG. 4261 C THREADED PLUG, V.P. S(
			<u>FD-G</u> - FLOOR DRAINS-GI JAY R. SMITH FIG. 2005-B OUTLET CONNECTION AI
D			<u>FD-M</u> -FLOOR DRAINS-GE JAY R. SMITH FIG. 3715 S FUNNEL, SPEEDI-SET OU
			<u>FD-PD</u> - PARKING DECK I WATTS FD-900-5-D CAST
			BUCKET. <u>FS-1</u> - FLOOR SINK WATTS FS-730 12" SQUAF
			COATED CAST IRON 1/2 (<u>TP-A</u> - AUTOMATIC TRAP PRECISION PLUMBING PI
			UNITS AS REQUIRED. AS <u>TP-L</u> - WATER SAVER TR/
_			ZURN Z1021 CHROME PL SLIP NUT AND WASHERS AND COMPRESSION FITT
SN			WHA - WATER HAMMER A PRECISION PLUMBING PI UPRIGHT POSITION AT A QUICK CLOSING VALVES
CIFICATIC S.			HB - MILD CLIMATE/INTEF
ND SPEC			PUBLIC AREAS. <u>NFRH</u> - NON-FREEZE ROO
WINGS A DAG AR(WOODFORD MODEL SRH SHROUD, MALE HOSE EN DRAIN REQUIRED.
ESE DRA AENT OF O			<u>NFWH</u> - NON-FREEZE EX JAY R. SMITH FIG. 5509-G INTEGRAL VACUUM BRE/
INC. THE AGREEN			<u>NFWH-CWHW</u> - NON-FRE JAY R. SMITH FIG. 5560-G VACUUM BREAKER.
HITECTS, VRITTEN			IMB - ICE MAKER BOX GUY GRAY MODEL MIB1H ARRESTOR. PROVIDE FR
AG ARCH PRIOR V			<u>AAV</u> - AIR ADMITTANCE V STUDOR MINI-VENT, INTE
ON OF D. OUT THE			8-24 DFU PER STACK LI - LINT INTERCEPTOR ZURN 1185-Z, ACID RESIS SECURED COVER, ALUM
PERMISSI 3S, WITH			SECURED COVER, ALUM WITH 3/8" DIA. PERFORA WB-1 WASHING MACHINE
UT WRITTEN PERMISSION OF DAG ARCHITECTS, INC. THESE DRAWINGS AND SPECIFICATIONS THE DRAWINGS, WITHOUT THE PRIOR WRITTEN AGREEMENT OF DAG ARCHITECTS. I			GUY GRAY MODEL B200 ALL FIRE RATED WALLS.
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INDICATED MODEL NUMBERS ARE JAY R. SMITH. APPROVED EQUAL PRODUCTS: , WADE, WATTS, SIOUX CHIEF, PRECISION PLUMBING PRODUCTS.

IG SUPPORT OR MASONRY WALLS AND #700-M31 FOR METAL/WOOD STUD WALLS.

DOLER-WALL HUNG SUPPORT

0 SUPPORT WITH UPRIGHTS OF HIGH STRENGTH STEEL WITH WELDED BASES BOLTED TO FLOOR. FOR USE M31 RECTANGULAR UPRIGHTS.

HUNG SUPPORT 0 VERTICAL OR 210 HORIZONTAL FLOOR MOUNTED SUPPORT.

UPPORT FLOOR MOUNTED SUPPORT.

NOUT - UNFINISHED AREAS 20 CAST BRONZE COUNTERSUNK PLUG WITH SLOT TO RECEIVE 1/2" THICK STEEL BAR STOCK.

OUT - FINISHED AREAS 6 CAST IRON FERRULE FOR NO HUB OR SERVICE WEIGHT PIPE, NICKEL BRONZE ROUND FRAME AND NG SCREWS.

20 CAST IRON CLEANOUT WITH GASKET SEAL THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE TOP WITH SECURING SCREW, SPEEDI-SET OUTLET CONNECTION.

CAST IRON CLEANOUT WITH GASKET SEAL THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE NZE TOP RECESSED FOR TILE WITH SECURING SCREW, SPEEDI-SET OUTLET CONNECTION.

20-Y CAST IRON CLEANOUT WITH GASKET SEAL THREADED PLUG, ADJUSTABLE ROUND NICKEL ETE WITH STAINLESS STEEL CARPET MARKER WITH SECURING SCREW, SPEEDI-SET OUTLET

ED/CONCRETE AREAS 1 CAST IRON FLANGED HOUSING WITH HEAVY DUTY C.I. COVER, LIFTING DEVICE, GASKET SEAL

SCREWS IN COVER. URFACED AREAS

1 CAST IRON FLANGED HOUSING WITH HEAVY DUTY C.I. COVER, LIFTING DEVICE, GASKET SEAL P. SCREWS IN COVER. PROVIDE 24" x 12" CONCRETE PAD FLUSH WITH SURFACE. -GENERAL/RESTROOMS

05-B6 SERIES CAST IRON FLOOR DRAIN WITH 6" SQUARE NICKEL BRONZE STRAINER, SPEEDI-SET AND TRAP PRIMER CONNECTION.

GENERAL PURPOSE/MECHANICAL ROOM 5 SERIES CAST IRON 12" DIAMETER DRAIN WITH SEDIMENT BUCKET, CAST IRON GRATE WITH LOOSE 4" OUTLET CONNECTION AND TRAP PRIMER CONNECTION.

CK DRAIN - PRECAST AST IRON DECK DRAIN WITH 12" ROUND DUCTILE IRON GRATE, COUNTERSUNK FLANGE, AND SEDIMENT

QUARE, 6" DEEP WHITE PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL 1/2 GRATE, ALUMINUM DOME BOTTOM STRAINER, NO HUB OUTLET.

AP PRIMER PRODUCTS PRIME-RITE SERIES AUTOMATIC TRAP PRIMER WITH MULTIPLE OUTLET DISTRIBUTION ASSE 1018 COMPLIANT.

RAP PRIMER PLATED 1-1/2" POLISHED CAST BRASS P-TRAP WITH CLEANOUT, WALL ARM, GROUND JOINT ELBOW. ERS, 1-1/4" SLIP NUT, WASHERS AND LAV/SINK TAILPIECE, ESCUTCHEONS, FLEXIBLE PRIMER TUBING, FITTING. ASSE 1044 COMPLIANT.

R ARRESTORS PRODUCTS SYSTEM RATED PLUS SERIES COPPER WATER HAMMER ARRESTOR. INSTALL IN AN ALL FLUSH VALVES, WASHING MACHINE SUPPLIES, DISHWASHERS, PRV STATIONS, AND OTHER VES, SOLENOIDS AND PLUMBING FIXTURES. LOCATE AND SIZE AS INDICATED ON DRAWINGS. WHERE WINGS, LOCATE AND SIZE IN ACCORDANCE WITH PDI STANDARD WH-201.

ITERIOR HOSE BIBB 24P HOSE BIBB WITH WHEEL HANDLE WITH VACUUM BREAKER, ROUGH BRASS, FOR USE IN NON-

ROOF HYDRANT SRH-MS, ROOF MOUNT PEDESTAL NON-FREEZE HYDRANT COMPLETE WITH MOUNTING FLANGE AND E END OUTLET WITH DUAL CHECK BACKFLOW PREVENTOR, SELF DRAINING VENTURI, 3/4" INLET, NO

EXTERIOR WALL HYDRANT 09-QT NON FREEZE 3/4" CAST BRONZE HYDRANT WITH RECESSED STAINLESS STEEL BOX AND FRAME REAKER, NICKEL BRONZE FACE, AND SIZED IN ACCORDANCE WITH WALL THICKNESS.

FREEZE HW/CW WALL HYDRANT 60-QTH: NON FREEZE 3/4" CAST BRONZE RECESSED BOX WITH HW/CW HYDRANTS WITH INTEGRAL

1HAAB 20 GAUGE WHITE POWDER COATED WITH QUARTER TURN VALVE AND WATER HAMMER

E FR-12 SERIES IN ALL FIRE RATED WALLS. VAI VF

ITERNAL SCREENING, PREVENTS THE RELEASE OF FOUL AIR, WHITE ABS, 1-160 DFU PER BRANCH,

ESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL LINT INTERCEPTOR, NON-SKID LUMINUM LINT INTERCEPTING SECONDARY SCREEN ASSEMBLY, AND PERMANENT STRAINING BAFFLE DRATED HOLES. FURNISHED WITH HIGH INLET AND LOW OUTLET.

HINE UTILITY CONNECTION 200 16 GAUGE UTILITY CONNECTINO WITH 1/2" ANGLE VALVES AND 2" WASTE. PROVIDE FR-12 SERIES IN LS. APPROVED EQUALS ARE SIOUX CHIEF AND IPS.

- THE PLUMBING SYSTEMS INSTALLATION SHALL CONFORM WITH THE REQUIREMENTS OF THE 21. ALL PLUMBING EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT FLORIDA PLUMBING CODE 8TH EDITION (2023), THE FLORIDA BUILDING CODE 8TH EDITION (2023), THE SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH FLORIDA FUEL GAS CODE 8TH EDITION (2023), THE FLORIDA ENERGY CONSERVATION CODE 8TH ELECTRICAL DRAWINGS. EDITION (2023) AND ALL APPLICABLE LOCAL CODES AND ORDINANCES. 22. ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC. INSTALLED IN HVAC PLENUM SPACES SHALL
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL PLUMBING MEET CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOPED. FIXTURES. 23. ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTEF ACCEPTANCE BY THE OWNER.
- ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT REST ON OR BE SUPPORTED FROM CEILING TILES.
- 24. ALL PIPE PENETRATIONS OF FIRE AND/OR SMOKE RATED ASSEMBLIES SHALL BE FIRE STOPPED AS WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE REQUIRED TO RESTORE THE ASSEMBLY TO ITS ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M COMPANY, CP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/SRINK, (UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE) OF WALL INSULATION. TREMCO, HILTI, METACAULK, NELSON, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY ALL PIPING, P-TRAPS, AND CONDENSATE DRAINAGE SUBJECT TO FREEZING SHALL BE INSULATED MANUFACTURER FOR PARTICULAR APPLICATIONS, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS. T-RATINGS SHALL BE MAINTAINED BY DOUBLE WRAPPING PENETRATIONS 4'-0" ABOVE
- AND HEAT TRACED.ALL PIPING, P-TRAPS, AND CONDENSATE DRAINAGE SUBJECT TO FREEZING SHALL BE INSTALLED IN A HEATED PLENUM. REFER TO MECHANICAL DRAWINGS.
- BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE LOCAL AHJ REQUIREMENTS.
- PIPING SHALL BE GRADED BACK TO DRAINAGE PIPE IT SERVES.
- TOPS OF ALL FLOOR DRAINS AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHED FLOOR.
- TRAP PRIMERS ARE TO BE PROVIDED ON ALL FLOOR DRAINS AND HUB DRAINS. TP "A" AUTOMATIC TRAP PRIMERS ARE TO BE PROVIDED IN ALL REQUIRED LOCATIONS. TRAP GUARDS COMPLYING TO 28. PROVIDE AN ASSE 1070 THERMOSTATIC MIXING VALVE FOR EACH SHOWER/BATHTUB WITHOUT AN ASSE 1072, AS MANUFACTURED BY SURSEAL OR EQUAL, MAY BE USED IN LIEU OF TRAP PRIMERS IF ALLOWABLE BY THE AHJ.
- PLUMBING PIPING SHALL NOT TO BE INSTALLED IN ELECTRICAL ROOMS, CLOSETS, TELEPHONE ROOMS. OR ELEVATOR EQUIPMENT ROOMS EXCEPT PIPING SERVING THAT SPECIFIC ROOM, ELECTRICAL EQUIPMENT, ETC. PER THE NATIONAL ELECTRICAL CODE ARTICLE 110.
- ROUTING OF PIPING SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR AND ALL OTHER TRADES DURING THE SUBMITTAL AND LAYOUT PHASE. PIPING SHALL NOT BE ROUTED THROUGH THE DEDICATED ELECTRICAL SPACE ABOVE EACH LOAD CENTER.
- PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS AND IN WALL STRUCTURE TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF EQUIPMENT AND BALANCING OF SYSTEMS. ACCESS PANELS ACCESS VALVES, WATER HAMMER ARRESTORS, TRAP PRIMERS, STRAINERS, ETC. COORDINATE EXACT LOCATION OF ALL ACCESS PANELS WITH THE ARCHITECT DURING THE SHOP DRAWING PROCESS.
- LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1'-0" FROM ACCESS PANELS, CEILING TILES, OR OTHER POINTS OF ACCESS.
- 33. BEFORE BEGINNING EXCAVATIONS OR DEMOLITION OF ANY NATURE WHATSOEVER, THE CONTRACTOR SHALL LOCATE ALL SERVICES AND UTILITIES OCCURRING WITHIN THE BOUNDS OF THE PROJECT. ALL COLD WATER, HOT WATER AND DRAIN PIPING AT HANDICAPPED FIXTURES SHALL BE INSULATED PROCEED WITH CAUTION SO THAT NO UTILITY OR LINE SERVING AREAS THAT ARE TO REMAIN BE DAMAGED WITH A RESULTANT LOSS OF SERVICE. VERIFY THE SOURCE AND SERVICE OF EACH AND WITH ASME A112.18.9 COMPLIANT INSULATION KITS, PLUMBEREX HANDY SHIELD MAXX INSULATION EVERY LINE ENCOUNTERED AND RECORD SERVICE, SIZE AND LOCATION ON THE RECORD DRAWINGS. KITS OR EQUAL.
- PROVIDE ASSE 1010 COMPLIANT WATER HAMMER ARRESTORS SIZED PER PDI STANDARD WH201 ON 34. CONTRACTOR TO VERIFY ALL INVERT ELEVATIONS FOR NEW PIPING CONNECTING TO CIVIL. NOTIFY ALL DOMESTIC WATER SUPPLIES SERVING FLUSH VALVE FIXTURES, AND OTHER INSTALLATIONS WITH ENGINEER OF ANY DISCREPANCIES. QUICK CLOSING VALVES. PROVIDE ACCESS PANELS AS REQUIRED. AIR CHAMBERS ARE 35. COORDINATE INTERRUPTION OF SERVICES AND UTILITIES WITH THE OWNER OR OWNER'S UNACCEPTABLE.
- REPRESENTATIVE, FIRE DEPARTMENT AND UTILITY COMPANIES TO ENSURE MINIMUM SHUTDOWN TIMES THAT ARE ACCEPTABLE TO THE OWNER AND AUTHORITIES. . ALL ICE MAKER BOXES SHALL BE KEPT OUT OF RATED WALLS WHERE PRACTICAL. IF BOXES ARE IN RATED WALLS, THE CONTRACTOR SHALL INSTALL FIRE RATED BOXES. 36. FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, GAUGES, STRAINERS, UNIONS, ETC. FOR EACH PROVIDE REDUCED PRESSURE, DUAL CHECK BACKFLOW PREVENTORS AT ALL DOMESTIC WATER PIECE OF EQUIPMENT HAVING PLUMBING CONNECTIONS TO FACILITATE PROPER FUNCTIONING AND SERVICING. DO NOT INSTALL PIPING AT LOCATIONS THAT INTERFERE WITH SERVICE ACCESSIBILITY TO
- CONNECTIONS TO MECHANICAL EQUIPMENT AND VENDING EQUIPMENT CONNECTIONS AS REQUIRED BY CODE AND AUTHORITIES HAVING JURISDICTION. BACKFLOW PREVENTORS SHALL BE LOCATED WITH A MINIMUM OF 1'-0" CLEARANCE AT THE LOWEST POINT AND AT NO MORE THAN 5'-0" ABOVE FINISHED FLOOR AT THE HIGHEST POINT OF THE DEVICE.
- 8. PROVIDE WATTS #SD-3, ASSE 1022 AT ALL CARBONATED BEVERAGE DISPENSERS.
- . PROVIDE WATTS #LF7C, ASSE 1024 AT ALL ICE MACHINE, COFFEE MACHINE AND NON-CARBONATED BEVERAGE DISPENSERS.
- . PROVIDE MANUFACTIRER EXPANSION DEVICES EQUAL TO METRAFLEX METRALOOP OR FABRICATED EXPANSION LOOPS ON ALL PIPING SYSTEMS CROSSING BUILDING EXPANSION JOINTS.
- THERMAL EXPANSION AND CONTRACTION IN ALL DOMESTIC WATER PIPING SYSTEMS SHALL BE COMPENSATED FOR USING U-BENDS, Z-BENDS OR EXPANSION JOINTS AS INDICATED. U-BENDS (LOOPS) AND Z-BENDS SHALL BE COMPLETE WITH PIPE GUIDES AND ANCHORS. EXPANSION COMPENSATION IN PIPING RISERS OVER 100 FEET IN LENGTH SHALL BE MADE WITH ENGINEERED SYSTEMS; EITHER SPRING TYPE ISOLATORS AND CENTRAL ANCHOR SYSTEM (BY MASON INDUSTRIES) OR FLEXIBLE HOSE EXPANSION LOOPS (METRALOOP AS MANUFACTURED BY THE METRAFLEX COMPANY). REFER TO SPECIFICATION SECTION 22 05 16 FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT 44. PROVIDE CHECK VALVES ON THE HOT AND COLD WATER INLETS AT THERMOSTATIC MIXING VALVES. SELECTED FOR THE VOLTAGES SHOWN THEREIN. THE VOLTAGE COORDINATION STATEMENT IS TO BE COMPLETED AND SUBMITTED WITH THE SHOP DRAWING SUBMITTAL. FAILURE TO SUBMIT THE 45. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET AND SHALL BE EITHER HAND OPERATED OR AUTOMATIC. VOLTAGE COORDINATION STATEMENT WILL BE CAUSE FOR REJECTION.

PLUMBING GENERAL NOTES

- FLOOR PENETRATIONS WITH A FIRE WRAP. WRAP MUST EQUAL T-RATING. ALL PLUMBING EQUIPMENT, CONDENSATE DRAINAGE, SANITARY, STORM, AND WATER PIPING SHALL 25. PROVIDE AN INLINE FILTER ON THE DOMESTIC WATER SUPPLY TO ALL ICE MACHINES; FILTRINE MODEL TM OR ENGINEER APPROVED EQUAL.
- 26. ALL VENT THRU ROOF PENETRATIONS SHALL BE ROUTED TO TERMINATE AT THE LEAST VISIBLE SANITARY DRAINAGE AND STORM DRAINAGE PIPING SHALL BE SLOPED AS REQUIRED BY CODE. VENT LOCATION FROM THE ENTRY VIEW.. VTR'S SHALL BE LOCATED A MINIMUM 10'-0" AWAY FROM FRESH AIR INTAKES AND OPERABLE WINDOWS.
 - 27. PROVIDE AN ASSE 1070 THERMOSTATIC MIXING VALVE FOR EACH PUBLIC AND EMPLOYEE LAVATORY AND HAND SINK SET AT 110°F EQUAL TO LEONARD MODEL 170-LF THERMOSTATIC MIXING VALVE.
 - ASSE 1016 PRESSURE BALANCING SHOWER VALVE SET AT 120°F EQUAL TO LEONARD MODEL 370-LF THERMOSTATIC MIXING VALVE. 29. ALL COMPONENTS OF THE DOMESTIC WATER SYSTEM SHALL COMPLY WITH ANSI/NSF 61, NSF 372, ANI
 - NSF 61-G LEAD FREE REQUIREMENTS. 30. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AS CONSTRUCTION PROGRESSES.. CONTRACTOR SHALL SUBMIT AS-BUILTS TO ARCHITECT/ENGINEER FOR REVIEW AFTER THE FINAL CERTIFICATE OF
 - OCCUPANCY HAS BEEN OBTAINED. 31. CONTRACTOR SHALL PROVIDE SUBMITTALS ON ALL PLUMBING SYSTEM COMPONENTS THAT ARE TO BE INSTALLED.
- IN CEILING AND WALLS SHALL BE PROVIDED WHERE SHOWN ON THE DRAWINGS OR NECESSARY TO 32. CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WITH FINAL GRADING TO ASCERTAIN THE CONDITIONS AND MAKE PROVISIONS BEFORE IMPLEMENTING WORK. THE CONTRACTOR'S COST ESTIMATE SHALL COVER ALL NECESSARY LABOR FOR MATERIALS. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL NOT BE CONSIDERED JUSTIFICATION FOR OMISSIONS OR FAULTY WORK OR FOR THE PAYMENT OF ADDITIONAL COMPENSATION.
 - EQUIPMENT. 37. VERIFY EXACT LOCATION OF EQUIPMENT PRIOR TO INSTALLATION OF FLOOR DRAINS, FLOOR SINKS AND OTHER RECEPTORS. RELOCATION DUE TO MISPLACEMENT SHALL BE AT NO ADDITIONAL COST.
 - 38. SEAL ALL PIPE PENETRATIONS THROUGH BUILDING GRADE BEAMS AND EXTERIOR WALLS WATERTIGHT.
 - 39. CONTRACTOR SHALL NOT ABANDON PLUMBING SYSTEMS IN PLACE, UNLESS SPECIFICALLY NOTED. 40. PROVIDE ALL MATERIAL, EQUIPMENT, LABOR, SUPERVISION, COSTS AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS. INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, INCIDENTAL, REASONABLE OR CUSTOMARILY INCLUDED.
 - 41. PROVIDE A PVC SLEEVE FOR GAS PIPING THAT IS ROUTED UNDER A WALKWAY OR CONCRETE SLAB.
 - 42. ALL UTILITIES TO VENDOR EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
 - 43. COORDINATE ALL FLOOR DRAIN, FLOOR SINK, HUB DRAIN, WALL AND FLOOR CLEANOUT LOCATIONS WITH ARCHITECT, OWNER, AND EQUIPMENT VENDOR PRIOR TO INSTALLATION.

2.01 INSULATION SPECIFICATION:

- A. The following shall be insulated:
- 1. All domestic cold-water (copper) piping and piping subject to freezing.
- 2. All hot water and hot water return piping.
- 3. All horizontal storm drain piping and roof drain bodies.
- 4. All hot and cold-water piping exposed to areas subject to freezing, refer to "Heat Cable for Freeze Protection of Piping" under Part 2 of Section 22 00 00 for additional requirements.
- B. Domestic hot, cold, hot water recirculation, primary storm drainage, and waste drainage piping shall be insulated with 4 lb. density sectional fiberglass insulation with a thermal conductivity not to exceed 0.24 with white all service jacket and vapor barrier. All joints and seams shall be sealed vapor tight. All seams and staples shall then be covered with "All Service Jacket" three-inch wide tape.
- C. All interior horizontal storm drainage piping systems and roof drain bodies are to be insulated with blanket type glass fiber bonded with thermosetting resin with white vinyl vapor retarding facing, 2" wide stapling/taping tab.
- D. Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind. The protection shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall be prohibited.
- E. Materials as specified in this section shall be manufactured by CertainTeed, Johns Manville, Knauf, Owens Corning or equal. Insulation thicknesses shall be as shown in the following table:

PLUME	BING PIPE	INSULATIO	N SC	HED	ULE		
PIPING SYSTEM TYPES	FLU TEMPER RANG	<1"	1" TO 1¼"	1½" TO 3"	4" TO 6"	8" AND LARGER	
DOMESTIC COLD WATER	AMBIENT	AMBIENT	0.5	1.0	1.0	1.0	1.5
DOMESTIC HOT & RETURN WATER	43 - 71	105 - 140	1.0	1.0	1.5	1.5	2
HORIZONTAL STORM DRAINAGE		AMBIENT			1.0	1.0	1.0

	PLUM	BING LEGEND
SYMBOL	ABBREVIATION	DESCRIPTION
	A/C	ABOVE CEILING
	AD	AREA DRAIN
	A/F	ABOVE FLOOR
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
\square	AP	ACCESS PANEL
	B/F	BELOW FLOOR
	B/G	BELOW GRADE
	BFP	BACKFLOW PREVENTOR
	BV	BALANCING VALVE
	CV	CHECK VALVE
ı 	CO	CLEANOUT PLUG
CD	CD	CONDENSATE DRAIN
	CW	COLD WATER PIPING
CWV	CWV	COMBINATION WASTE & VENT
¢	DSN	DOWNSPOUT NOZZLE
O	FCO	FLOOR CLEANOUT
O	FD	FLOOR DRAIN
	FS	FLOOR SINK
G	G	GAS PIPING - LOW PRESSURE (# PSI)
MG	MG	GAS PIPING - MEDIUM PRESSURE (# PSI)
	HC	HANDICAPPED
+++++++	HT	HEAT TRACED PIPING
\$ <u></u>	HB, NFHB, NFRH	HOSE BIBB / NON-FREEZE HOSE BIBB / NON-FREEZE ROOF
"		HYDRANT
	HW	HOT WATER PIPING
	HWR	HOT WATER RETURN PIPING
(<u>0</u>)	HD	HUB DRAIN
	IW	INDIRECT WASTE PIPING (ABOVE GROUND)
	NC	NORMALLY CLOSED
	O/H	OVER HEAD
	-	PIPING TEE
G	DN	PIPING TURNING DOWN
	UP	PIPING TURNING UP
	POC	POINT OF CONNECTION NEW TO EXISTING
	PRV	PRESSURE REDUCING VALVE
PD	PD	PUMPED DISCHARGE
~~~		P-TRAP
	RH, NFRH	NON-FREEZE ROOF HYDRANT
	RPZ	REDUCED PRESSURE BACKFLOW PREVENTOR
<u>0</u> ≯		RISER VALVE
		SHUTOFF VALVE
SAN	S,SAN,W	SOIL, SANITARY, WASTE PIPING (ABOVE GROUND)
	S,SAN,W	SOIL, SANITARY, WASTE PIPING (BELOW GROUND)
GW	GW	GREASE WASTE PIPING
		STRAINER
	TMV	
	TP	
.1.	U/C	UNDER COUNTER
		UNION
	V, GV	VENT PIPING (WASTE VENT, GREASE WASTE)
ļ	VTR	VENT THRU ROOF
	WCO	WALL CLEANOUT
\$ <u> </u>	WH, NFWH	WALL HYDRANT/NON-FREEZE WALL HYDRANT
	WSV	WASTE STACK VENT
I●	WHA	WATER HAMMER ARRESTOR
0	YCO	YARD CLEANOUT

## FLOW TEST DATA SCHEDULE

JPON AWARD OF THE CONTRACT, THE FIRE PROTECTION CONTRACTOR SHALL PERFORM A FLOW TEST ON THE TWO HYDRANTS NEAREST THE SITE AND FORWARD THE TEST DATA TO THE ENGINEER AND ARCHITECT THE FOLLOWING WATER PRESSURE/FLOW DATA WAS OBTAINED FROM: PHOENIX FIRE PROTECTION INC.

STATIC PRESSURE:	80 PSI
RESIDUAL PRESSURE:	45 PSI
FLOW (GPM):	995 GPM
ELEVATION OF TEST HYDRANT:	
LOCATION OF TEST HYDRANT:	TYRON PASS AND TYRON CIRCLE
DATE OF TEST:	NOVEMBER 17TH, 2022
TIME OF DAY OF TEST:	10:00 AM

	PLUMBING SHEET INDEX
P-001	LEGEND, NOTES & SCHEDULES - PLUMBING
P-002	SCHEDULES & DETAILS - PLUMBING
P-110	UNDERGROUND FLOOR PLAN - PLUMBING
P-111	ABOVE GROUND FLOOR PLAN - PLUMBING
P-121	ROOF LEVEL PLAN - PLUMBING
P-401	ENLARGED PLANS & ISOMETRIC VIEWS - PLUMBING
P-402	ENLARGED VIEWS & ISOMETRICS - PLUMBING
P-403	ENLARGED PLANS & ISOMETRIC VIEWS - PLUMBING
P-404	ENLARGED PLANS & ISOMETRIC VIEWS - PLUMBING

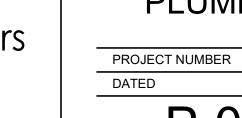


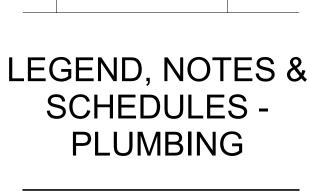
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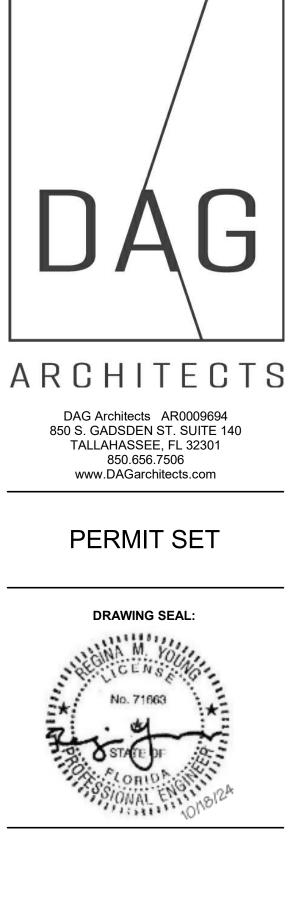
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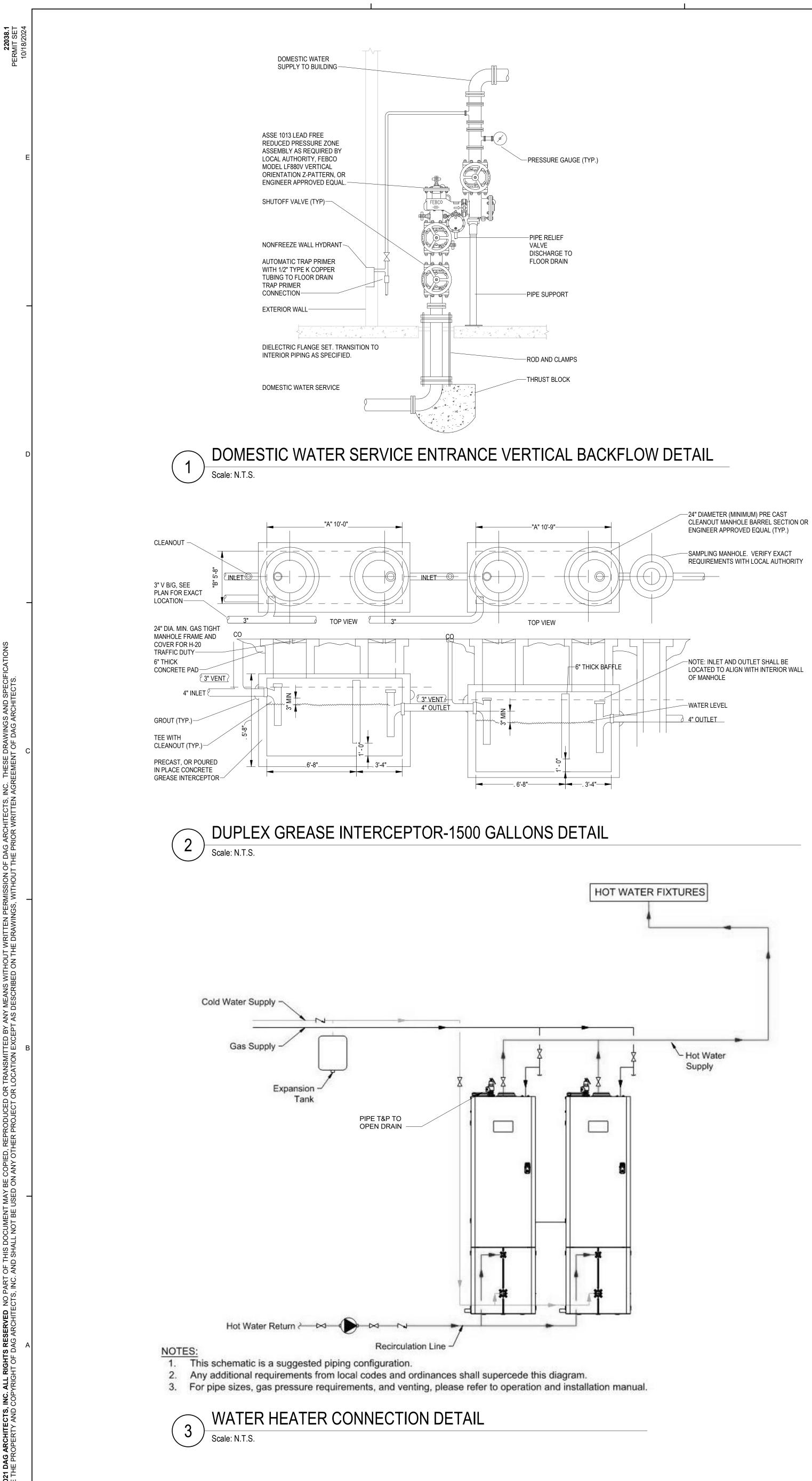
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	GAS FIRED TANKLESS WATER HEATER SCHEDULE											
SYMBOL	MANUFACTURER/ MODEL No./ SERVICE	THERMAL EFF.	MAX BTU INPUT	MAX BTU OUTPUT	FLUE SIZE	TURN DOWN RATIO	GPM @ 100°F TEMP. RISE	OUTLET TEMPERATURE	DIMS (INCHES)	WEIGHT (LBS)	POWER CONSUMPTION	NOTES
WHG-1	INTELLIHOT/ iN501/ RESTROOMS, LAUNDRY	96%	499,99	479,999	4"	16.7:1	9.6	120°F	67.7x20x20	345	9.59 AMPS, 16W	ALL
WHG-2	INTELLIHOT/ iN501/ KITCHEN, BAR, PANTRY	96%	499,99	479,999	4"	16.7:1	9.6	140°F	67.7x20x20	345	9.59 AMPS, 16W	ALL
NOTES	<u>S:</u>					1			· ·			
1.	WATER HEATER(S) SHAL	L MEET ASH	IRAE 90-75.	ASME-HLW	COMPLIA	NCE. ALL L	OCAL CODE R	EQUIREMENTS. A	ND SHALL BE	AGA CERTIF	FIED.	
2.	LOCATE WATER HEATER					,						
3.	PROVIDE MASTERLESS	CASCADING.										
4.	4. PROVIDE POSITIVE LOCK-UP GAS PRESSURE REGULATOR SET TO 2.5" W.C. MIN. AND 14" W.C. MAX (8" W.C. NOMINAL).											
5.												
6.	PROVIDE DIELECTRIC FITTINGS, BALL VALVES, AND UNIONS ON WATER INLET AND OUTLET CONNECTIONS.											
7. 8.		ROVIDE CONDENSATE NEUTRALIZATION KIT EQUAL TO NEUTRASAFE CN4-2000 ON CONDENSATE DISCHARGE PIPING. ROUTE TO FLOOR DRAIN. ROVIDE STRAINER ON WATER INLET CONNECTION.										
9.				HON.								
	I NOTIBE BRONET CONT	OVIDE BACNET CONTACTS FOR BAS/EMCS.										

	PLUMBING PUMP SCHEDULE								
SYMBOL	MANUFACTURER	MODEL NUMBER	SERVICE	TYPE	FLOW PER PUMP (GPM)	HEAD PER PUMP (FT)	RPM	HP	NOTES
HWRP-1	TACO	TACO -0011	HOT WATER RECIRC./ RESTROOMS, LAUNDRY	INLINE	5.40	26	3250	1/8	
HWRP-2	TACO	TACO -0011	HOT WATER RECIRC./ KITCHEN	INLINE	3.20	23	3250	1/8	
A. ALL DOM B. ALL THRE C. REFER T	GENERAL REQUIREMENTS: A. ALL DOMESTIC WATER PUMPS SHALL BE OF LEAD-FREE BRONZE OR STAINLESS STEEL CONSTRUCTION AND ANSI/NSF 61 CERTIFIED. B. ALL THREE-PHASE PUMP MOTORS 1 HP OR LARGER SHALL MEET OR EXCEED EFFICIENCY STANDARDS FOR NEMA PREMIUM MOTORS. C. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. D. ALL PUMPS SHALL BE STARTED AND COMMISSIONED BY FACTORY TRAINED PERSONNEL.								TIONS: ATOR SUMP PUMP WATER ATION PUMP

THERMOSTATIC MIXING VALVE SCHEDULE								
SYMBOL	LOCATION	MODEL NUMBER	INLET TEMPERATURE	OUTLET TEMPERATURE	MIN FLOW (GPM)	DESIGN FLOW (GPM)	PRESSURE DROP (PSI)	NOTES
TMV-1	MECH. ROOM	TM-820B-LF-DT	140°F	120°F	0.5	35	10	1,2
NOTES: 1. BASIS OF DESIGN : LEONARD MXING VALVE 2. USE PIPING METHOD #2								

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MINIMUM ROUGH-IN SIZES							
FIXTURE I.D./ DESCRIPTION	FLOW RATE	WASTE CONNECTION	VENT CONNECTION	COLD WATER SUPPLY	HOT WATER SUPPLY		
<u>WC-1</u> A.D.A. WATER CLOSET FLOOR MOUNTED FLUSH VALVE	1.28 GPF	4"	2"	1"			
<u>UR-1</u> URINAL WALL MOUNTED	0.5 GPF	2"	2"	3/4"			
<u>L-1</u> A.D.A. LAVATORY UNDERCOUNTER	0.5 GPM	2"	2"	1/2"	1/2"		
<u>L-2</u> A.D.A. LAVATORY WALL HUNG	0.5 GPM	2"	2"	1/2"	1/2"		
<u>SH-1</u> SHOWER	1.75 GPF	2"	2"	1/2"	1/2"		
<u>EWC-1</u> ELECTRICAL WATER COOLER BI-LEVEL, WITH BOTTLE FILLER	GPM	1-1/4"	1-1/4"	1/2"			
<u>MS-1</u> MOP SINK - FLOOR MOUNTED	1.5 GPM	3"	2"	1/2"	1/2"		
<u>S-1</u> Single Bowl Sink	1.5 GPM	2"	2"	1/2"	1/2"		
IMB ICE-MAKER BOX	GPM			1/2"			
<ol> <li>NOTES:</li> <li>BATHROOM SINK FAUCETS, WATER CLOSETS, URINALS, SHOWER HEADS, AND PRE-RINSE SPRAY VALVES SHALL BE WATERSENSE LABELED.</li> <li>ADA COMPLIANT PLUMBING FIXTURES SHALL BE INSTALLED PER ALL FEDERAL AND LOCAL REQUIREMENTS.</li> <li>REFER TO ARCHITECTURAL/INTERIOR DESIGNER PLANS FOR PLUMBING FIXTURE LOCATIONS AND MOUNTING HEIGHTS.</li> <li>REFER TO PLUMBING SPECIFICATION SECTION 224000 FOR PLUMBING FIXTURE SPECIFICATIONS.</li> </ol>							

PLUMBING FIXTURE CONNECTION SCHEDULE

## PLUMBING FIXTURE SPECIFICATIONS

WC-1 – WATER	CLOSET - PUBLIC - FLOOR MOUNTED - FLUSH VALVE - ADA:						
FIXTURE: FLUSH SYSTEM SUPPLY:	TOTO MS614124CEF(R)(G) WITH SEAT : TORNADO FLUSH ½" O.D. X 3/8" O.D. ANGLE STOP, WHEEL HANDLE, WALL FLANGE, CHROME PLATED.						
I -1 – LAVATORY	L-1 – LAVATORY (LOCKER ROOM) - RECTANGULAR UNDERMOUNT:						
SINK: FAUCET HEAD: FAUCET HANDL TRAP: SUPPLY:	KOHLER K-2330 KOHLER K-27009-N						
<u>L-2 – LAVATORY</u>	(LOCKER ROOM) - WALL HUNG:						
SINK: FAUCET HEAD: FAUCET HANDL TRAP: SUPPLY:							
<u>L-3 – LAVATORY</u>	′ - WALL HUNG:						
SINK: FAUCET: TRAP: SUPPLY:	KOHLER K-77768-8 KOHLER K-27416-4N 1 ¼" X 1 ½" PP TRAP, WHITE. ½" O.D. X 3/8" O.D. ANGLE STOP, WHEEL HANDLE, WALL FLANGE, CHROME PLATED						
<u>L-4 – LAVATORY</u>	- RECTANGULAR UNDERMOUNT:						
SINK: FAUCET: TRAP: SUPPLY:	KOHLER K-2330 KOHLER K-27416-4N 1 ¼" X 1 ½" PP TRAP, WHITE. ½" O.D. X 3/8" O.D. ANGLE STOP, WHEEL HANDLE, WALL FLANGE, CHROME PLATED						
<u> UR-1 – URINAL -</u>	PUBLIC - WALL MOUNTED - FLUSH VALVE - ADA:						
FIXTURE: FLUSH VALVE: SUPPLY: CARRIER:	KOHLER K-4920-R SLOAN ROYAL 186-1.0 ½" O.D. X 3/8" O.D. ANGLE STOP, WHEEL HANDLE, WALL FLANGE, CHROME PLATED. JAY R. SMITH 635						
<u>SH-1 – SHOWER</u>	R (LOCKER ROOM) - PUBLIC:						
SHOWER HEAD SHOWER VALVE LINEAR DRAIN:	E: KOHLER K-TS27043-4						
<u>S-1 – UNDERMC</u>	UNT PANTRY SINK:						
FAUCET: I TRAP: Z SUPPLY: 2	KOHLER K-8689-5U-0 KOHLER K-22972-BL AMERICAN STANDARD 7783.030 CAST IRON "P" TRAP. ½" O.D. X 3/8" O.D. ANGLE STOP, WHEEL HANDLE, WALL FLANGE, CHROME PLATED.						
<u>EWC-1 – DRINKI</u>	NG FOUNTAIN, DUAL HEIGHT, ADA:						
TRAP:	HALSEY TAYLOR OVL-II KOHLER K-8995 1 ¼" X 1 ½" 17 GA. ADJUSTABLE TRAPWITH CLEANOUT, CHROME. ½" O.D. X 3/8" O.D. WHEEL HANDLE STOP, WALL FLANGE, CHROME PLATED.						
MS-1 - MOP SINI							
SINK:	– KOHLER K-6710 AMERICAN STANDARD 8344.112						

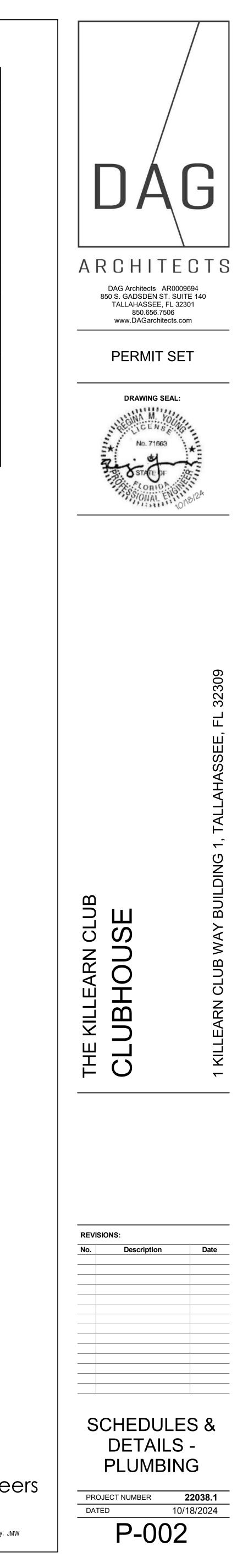


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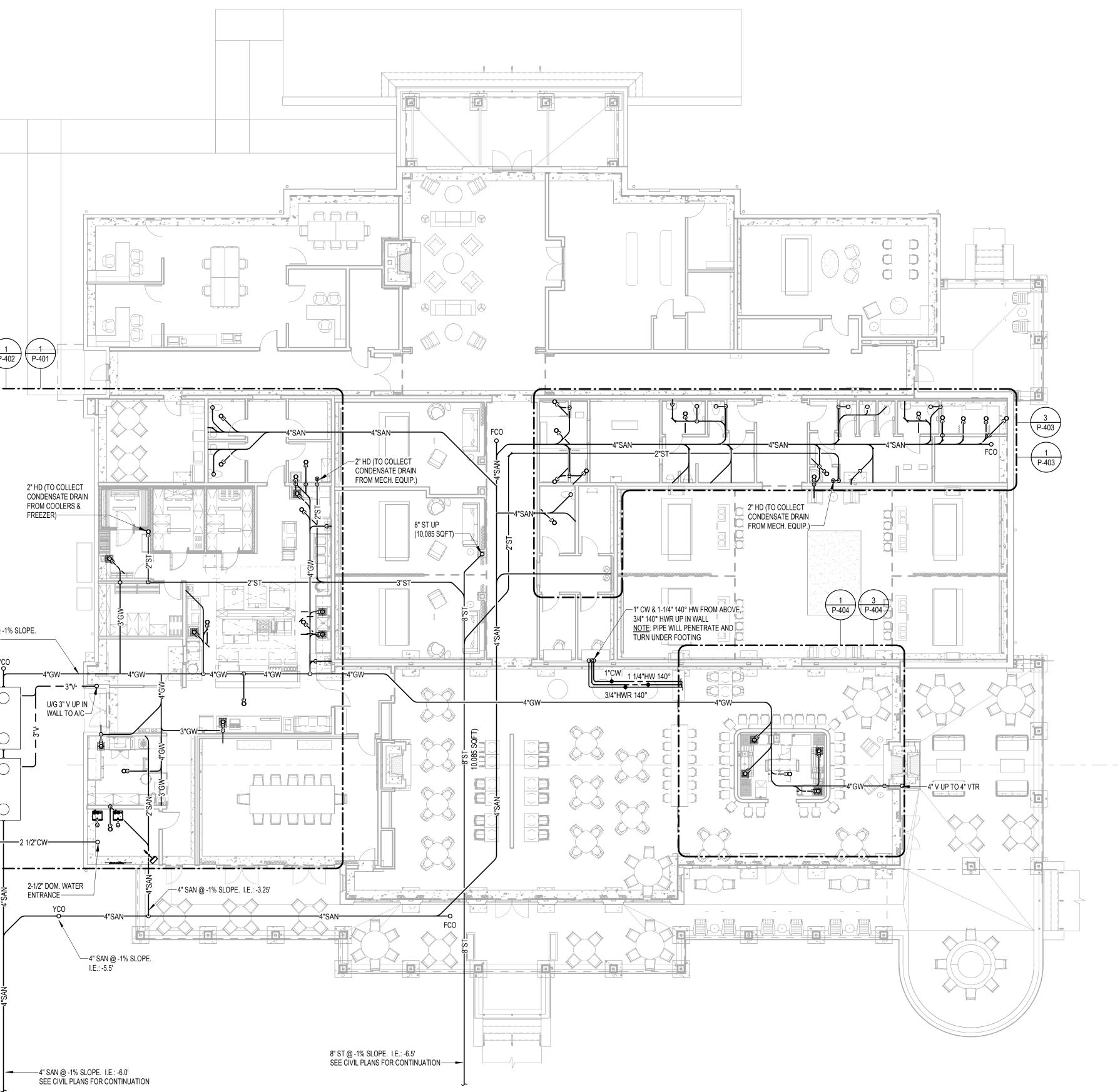
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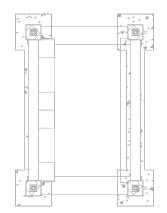
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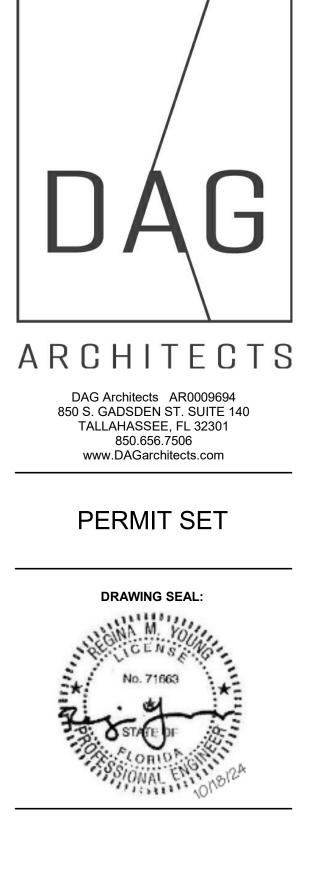
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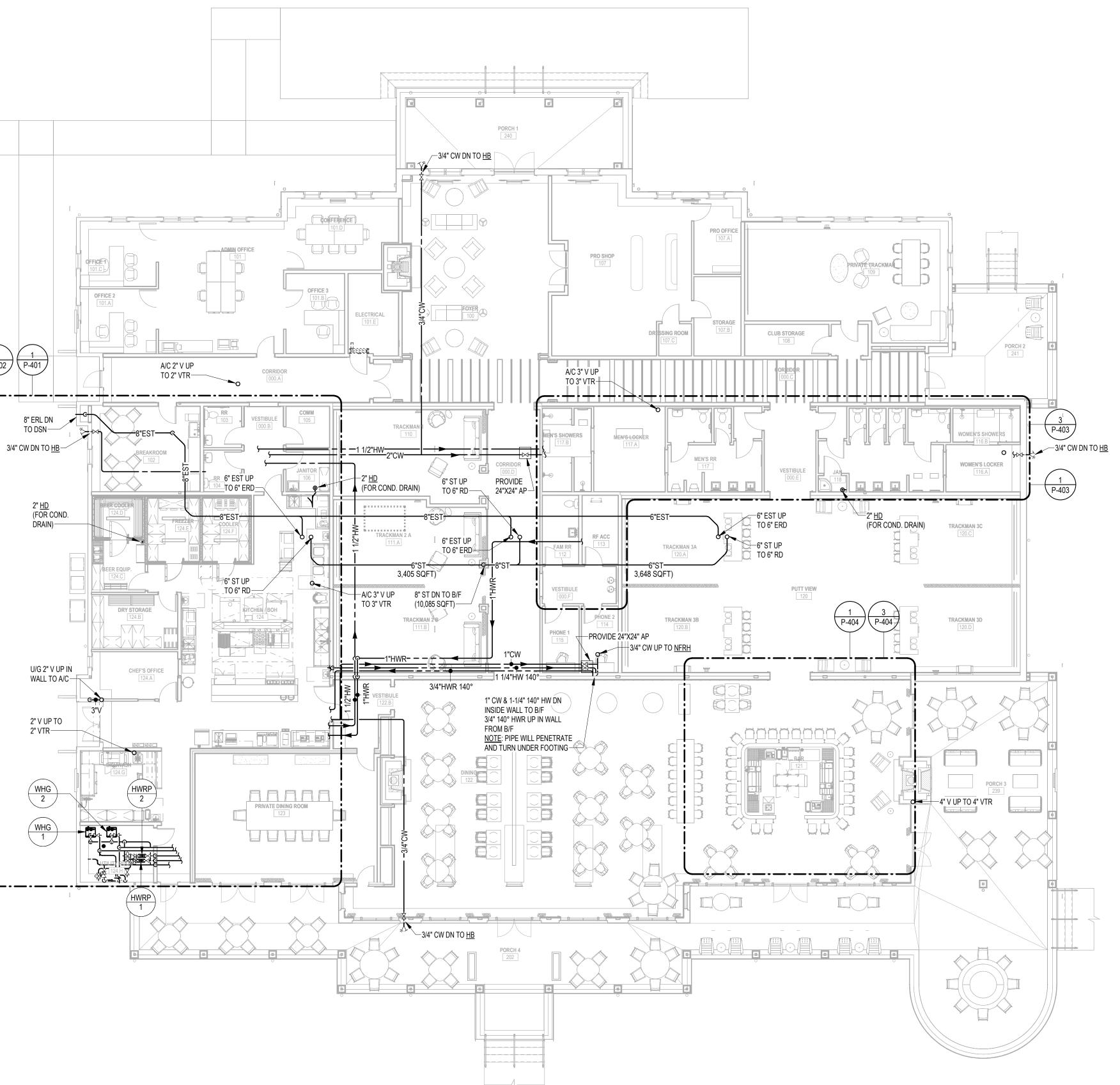




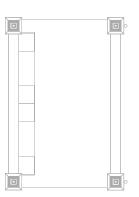




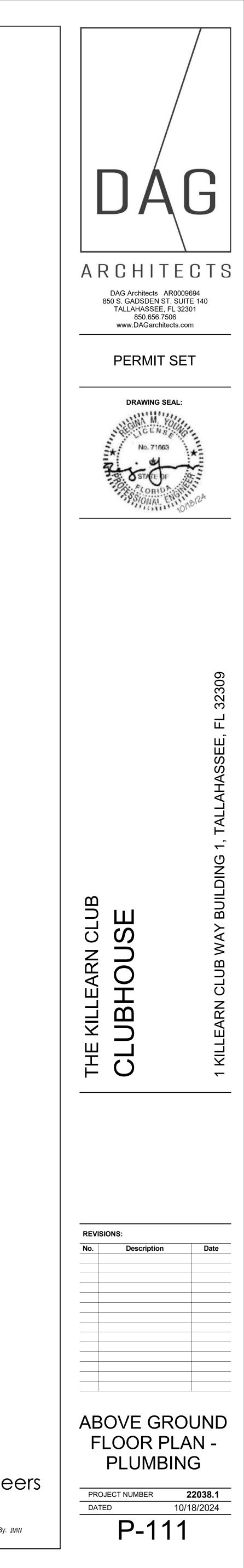
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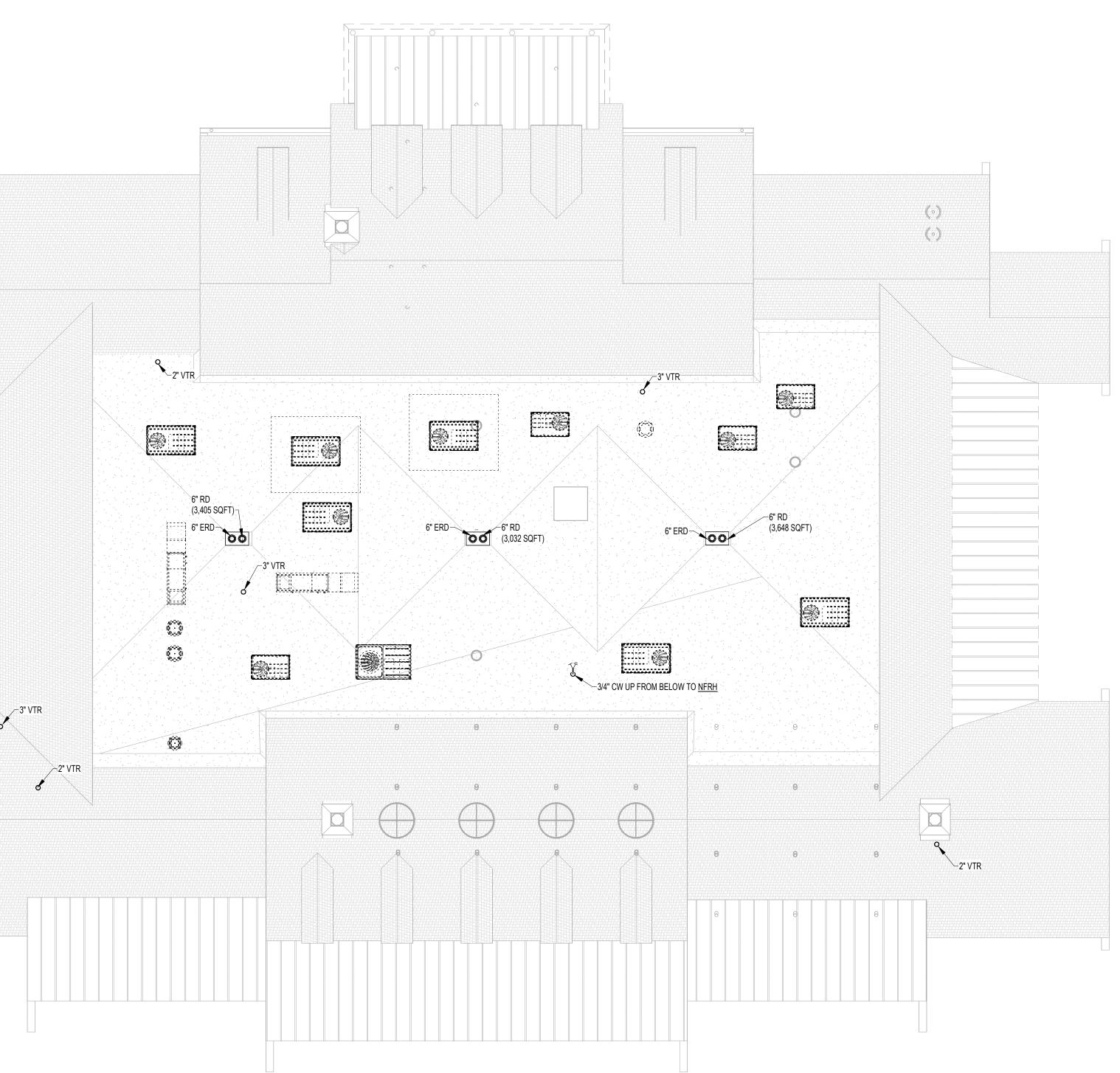
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ROOF LEVEL PLAN - PLUMBING

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