

PLUMBING NOTES & SPECIFICATIONS

- GENERAL**
 - THE PLUMBING PLAN SHALL COMPLY WITH INDICATED BUILDING, ENERGY CODE, AND ALL OTHER LOCALLY ADOPTED STANDARDS OR AMENDMENTS.
 - THESE DRAWINGS WILL NOT BE UPDATED FOR FIELD CHANGES NOT PREVIOUSLY DISCUSSED WITH ENGINEER AND LETTERS TO PASS INSPECTION AS A RESULT OF SUCH DEVIATIONS WILL NOT BE PROVIDED. THESE DRAWINGS REPRESENT THE ENGINEER'S INTERPRETATION OF THE APPLICABLE CODES, HAVE BEEN REVIEWED BY THE LOCAL AHJ FOR CODE CONFORMANCE, AND ARE CONSIDERED CONTRACT DOCUMENTS.
 - THESE DRAWINGS ARE INTENDED TO INDICATE CAPACITY, SIZE, LOCATION, DIRECTION AND GENERAL ARRANGEMENT, BUT NOT EXACT DETAILS OF CONSTRUCTION. THE FACT THAT ONLY CERTAIN FEATURES OF THE INSTALLATION ARE INDICATED MUST NOT BE TAKEN TO MEAN THAT OTHER SIMILAR OR DIFFERENT FEATURES WILL NOT BE REQUIRED.
 - THIS CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS TO INSURE THAT EACH TRADE SHALL HAVE SUFFICIENT SPACE TO INSTALL THEIR EQUIPMENT (DUCTWORK, PIPING, ELECTRICAL WORK, ETC.).
 - WORK SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS AND OTHER COSTS AS ARE NECESSARY FOR THE INSTALLATION OF A COMPLETE AND SATISFACTORY OPERATIONAL PLUMBING SYSTEM.
 - ALL EQUIPMENT FIXTURES, ETC. SHALL BE TESTED, ADJUSTED AND OPERATED AS INDICATED ON THE PLANS AND PLACED IN SATISFACTORY OPERATIONAL CONDITION BY THE PLUMBING CONTRACTOR. THIS CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, MATERIALS AND EQUIPMENT TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY. THIS IS IN ADDITION TO ANY WARRANTY OR GUARANTEE FROM THE EQUIPMENT MANUFACTURER. FURNISH THE OWNER WITH THE MANUFACTURER'S WRITTEN CERTIFICATES.
 - PLUMBING OR PIPING SYSTEMS INDICATED AS BEING UNDER "SEPARATE PERMIT" SHALL BE INTERPRETED AS A SEPARATE PERMIT PULLED BY THE PLUMBING CONTRACTOR WHICH INCLUDES DESIGN / PERMIT FEES, ENGINEERING FEES, UNLESS OTHERWISE DISCUSSED WITH THE GENERAL CONTRACTOR OR ENGINEER.
 - UNLESS NOTED OTHERWISE, ALL MATERIALS SHALL BE NEW, COMPLETE, INCLUDE MANUFACTURER'S WARRANTY AND SHALL BE U.L. APPROVED IF APPLICABLE. ALL WORK SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
 - IN GENERAL, ALL PIPING SHALL BE RUN CONCEALED IN CEILING AND PIPE SPACES PROVIDED UNLESS NOTED OTHERWISE.
 - VERIFY ALL DIMENSIONS FROM ARCHITECTURAL PLANS FOR FIELD DIMENSIONS. DO NOT SCALE CONSTRUCTION DOCUMENTS.
 - PROVIDE STOP VALVES OR ANGLE STOP VALVES ON EACH WATER CONNECTION TO EACH PLUMBING FIXTURE. PROVIDE UNIONS TO REMOVE, SERVICE, AND REPLACE PLUMBING EQUIPMENT.
 - BURIED PIPING NEAR FOUNDATIONS OR BEARING WALLS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLUMBING CODE INSTRUCTIONS ON PROTECTION OF PIPES, AND SHALL BE SLEEVED WITH APPROVED MATERIALS.
 - PLUMBING SYSTEM INSTALLER SHALL PROVIDE ALL STRUCTURAL MEMBERS, SUPPORT BRACKETS, FLASHING, HARDWARE, ETC., REQUIRED TO INSTALL A COMPLETE SYSTEM.
 - THESE DRAWINGS ARE DIAGRAMMATIC, ALL RISES, DROPS, OR OFFSETS IN PIPING NOT NECESSARILY SHOWN, ALL UNDERGROUND PIPING SHALL BE INSTALLED WITHIN 1'-0" INCHES (MAX).
 - DO NOT ROUTE ANY PIPING ABOVE ELECTRIC PANELS, SWITCHGEAR, OR EQUIPMENT - OR WITHIN THE MINIMUM CLEAR SPACE FOR SWITCH GEAR REQUIRED BY ARTICLE 110 OF THE NEC. THIS INCLUDES INSTALLATIONS WITH A DROPPED (LAY-IN) OR DRYWALL CEILING. COORDINATION WITH ELECTRICAL CONTRACTOR REQUIRED.
- SUBMITTALS AND SHOP DRAWINGS**
 - SUBMITTALS OR SHOP DRAWINGS SHALL BE PROVIDED TO THE GENERAL CONTRACTOR AND ENGINEER FOR REVIEW. THESE SUBMITTALS OR SHOP DRAWINGS SHALL INCLUDE ALL EQUIPMENT, MATERIALS, FIXTURES, APPLIANCES, PIPING MATERIALS, ETC. THE SHOP DRAWINGS WILL BE REVIEWED BY THE ENGINEER ON BEHALF OF THE OWNER AND/OR CLIENT, AND APPROVAL OF SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF COMPLIANCE WITH THESE DRAWINGS.
 - THE SHOP DRAWINGS SHALL BE HIGHLIGHTED OR MARKED WITH CONSPICUOUS AND OBVIOUS NOTATIONS IDENTIFYING THE SPECIFIC EQUIPMENT, MATERIALS, FIXTURES, APPLIANCES, PIPING MATERIALS, ETC. PROPOSED TO BE USED. SHOP DRAWINGS SUBMITTED TO ENGINEER THAT INCLUDE NON APPLICABLE INFORMATION, OR WHICH DO NOT INCLUDE SPECIFIC NOTATIONS AND/OR HIGHLIGHTING WILL NOT BE REVIEWED.
- UTILITY CONNECTIONS**
 - CONTRACTOR SHALL VERIFY ELEVATIONS OF UTILITY CONNECTIONS ON SITE PRIOR TO COMMENCING WORK. THIS SHALL INCLUDE FIELD MEASURING EXISTING INVERT ELEVATIONS TO ENSURE AN SUFFICIENT PIPING DEPTH FOR GRAVITY SYSTEMS.
 - PLUMBING CONTRACTOR RESPONSIBILITY TO BE TO 5' BEYOND BUILDING LINE FINAL CONNECTION TO SITE UTILITIES TO BE PLUMBERS RESPONSIBILITY.
- DOMESTIC / POTABLE WATER SYSTEMS**
 - INSULATE ALL DOMESTIC HOT WATER LINES IN ACCORDANCE WITH THE FLORIDA ENERGY CODE (3" ARMAFLEX RUBBER INSULATION MINIMUM), FINAL INSULATION THICKNESS TO BE IN ACCORDANCE WITH SYSTEM TYPE AND TEMPERATURE.
 - PROVIDE MAIN SHUTOFF VALVE, RUBBER FACED CHECK VALVE, VACUUM BREAKER AND HOSE BIB ON COLD WATER MAIN ENTERING THE BUILDING. PROVIDE SHUTOFF VALVE ON THE WATER SUPPLY PIPE TO EVERY WATER HEATER.
 - SILCOCKS, HOSE BIBS, AND OTHER OPENINGS WITH A HOSE CONNECTION SHALL BE PROTECTED BY AN ATMOSPHERIC-TYPE VACUUM BREAKER OR PERMANENTLY ATTACHED HOSE CONNECTION VACUUM BREAKER.
 - ALL REFRIGERATOR OR ICE MAKER LOCATIONS TO BE PROVIDED WITH A MINIMUM 1/2" C.W. LINE TO 1/4" PETCOCK 6" ABOVE FLOOR. PROVIDE WITH ICE MAKER BOX WITH 1/4 TURN VALVE AND HAMMER ARRESTOR VALVE.
 - AN AIR CHAMBER/SHOCK ABSORBER WATER HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK-CLOSING VALVES ARE USED TO PREVENT WATER HAMMER, SUCH AS ON WASHING MACHINES, ICE MAKERS, DISHWASHERS, AND DRINKING FOUNTAINS. THE ARRESTOR SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, BE ACCESSIBLE, AND SHALL CONFORM TO ASSE 1010.
- DWV, STORM, AND CONDENSATE SYSTEM PIPING**
 - PROVIDE CLEAN OUTS AT THE BASE OF EACH STACK, AT EACH 90 DEGREE CHANGE IN HORIZONTAL DIRECTION, AND AT EACH EXIT FROM BUILDING. CLEANOUT COVERS TO BE PROVIDED WHERE INSTALLED IN FINISHED AREA OR CONCEALED BY DRYWALL. NOT ALL CLEANOUTS INDICATED ON DRAWINGS.
 - ALL PRIMARY ROOF DRAINS SHALL BE PROVIDED WITH A SECONDARY STORM DRAIN PIPING SYSTEM IN CASE OF PRIMARY DRAIN BLOCKAGE. THE SECONDARY STORM DRAIN SHALL DISCHARGE ABOVE GRADE IN A CONSPICUOUS LOCATION OR AS INDICATED. SECONDARY STORM DRAIN PIPING SHALL NOT BE COMBINED WITH PRIMARY STORM WATER SYSTEM AND MINIMUM SIZE SHALL BE EQUAL TO PRIMARY DRAIN PIPING SERVICE RESPECTIVE PORTION OF SYSTEM.
 - ALL SANITARY & STORM SYSTEM PIPING WITH OUTLETS LOCATED BELOW BASE FLOOD ELEVATION SHALL BE PROVIDED WITH AN ACCESSIBLE BACKWATER VALVE.
 - ALL CONDENSATE PIPING SHALL BE SLOPED AT 1/8" MINIMUM, AND 1/4" MAXIMUM. CONDENSATE PIPE SHALL BE DISCHARGED INTO AN INDIRECT WASTE RECEPTOR OR AIR GAP. CONDENSATE PIPING SYSTEMS DISCHARGING INTO VERTICAL STORM LEADER TO BE PROVIDED WITH AN INLINE BACK-WATER VALVE.
 - ALL ABOVE GRADE CONDENSATE PIPING TO BE INSULATED WITH 3/4" (MINIMUM) ARMAFLEX RUBBER INSULATION. SANITARY PIPING 2" OR LESS IN DIAMETER TO BE SLOPED AT 1/4" PER LINEAR FOOT, 3" THRU 8" IN DIAMETER AT 1/8"
- GAS PIPING SYSTEMS AND EQUIPMENT**
 - THE GAS SYSTEM PIPING AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE FUEL-GAS CODE, NFPA 54, 55, 56, 57, 68, 69, 96, 715. IN ADDITION TO ANY OTHER APPLICABLE STANDARDS OR AMENDMENTS. DISTANCES INDICATED ON GAS PLAN ARE FOR SIZING PURPOSES ONLY.
 - GAS PIPING SCOPE SHALL INCLUDE THE INSTALLATION OF GAS DISTRIBUTION SYSTEM, ALL REQUIRED SHUT-OFF & CONTROL VALVES, FIRST & SECOND STAGE REGULATORS, FINAL CONNECTIONS TO GAS EQUIPMENT.
 - GAS PIPING SHALL BE STEEL OR WROUGHT-IRON PIPE AND SHALL BE AT LEAST OF STANDARD WEIGHT (SCHEDULE 40). GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE ASTM / ASME STANDARDS.
 - ALL GAS PIPING SHALL BE FINISHED WITH A RUST INHIBITING PRIMER, COLOR CODED FINISH, AND PROVIDED WITH IDENTIFICATION LABELS.
 - PROVIDE SEDIMENT TRAP AS CLOSE AS POSSIBLE TO EACH GAS APPLIANCE IN ACCORDANCE WITH NFPA 54. A DRIP OR DIRT LEG SHALL BE PROVIDED AT ANY POINT IN THE SYSTEM.
 - ALL APPLIANCES CONNECTED TO GAS SYSTEM SHALL BE PROVIDED WITH A GAS PRESSURE REGULATOR IF REQUIRED BY MANUFACTURER'S INSTRUCTIONS OR WHERE GAS DESIGN SYSTEM PRESSURE IS IN EXCESS OF 7"WC. ALL REGULATORS SHALL BE VENTED TO OUTDOORS UNLESS A LISTED AND APPROVED VENTLESS REGULATOR IS UTILIZED.
 - FINAL CONNECTIONS FOR FLOOR MOUNTED GAS APPLIANCES SHALL BE PROVIDED WITH FLEXIBLE GAS PIPING CONNECTION, STRAIN RELIEF, AND PERMANENT CHAIN OR CABLE. THE GAS FLEXIBLE GAS CONNECTION PIPING AND CHAIN/CABLE SHALL BE OF SUFFICIENT LENGTH TO INSPECT, SERVICE, AND DISCONNECT APPLIANCE.
 - WHERE GAS PIPING IS PASSING THROUGH AN OUTSIDE WALL, THE PIPING SHALL ALSO BE PROTECTED AGAINST CORROSION BY COATING OR WRAPPING WITH AN INERT MATERIAL, WHERE PIPING IS ENCASED IN A PROTECTIVE PIPE SLEEVE, THE ANNULAR SPACE BETWEEN THE PIPING AND THE SLEEVE SHALL BE SEALED.
- PLENUM SPACES**
 - THE NOTES BELOW SHALL APPLY TO ALL PLENUM SPACES AND MATERIALS WHETHER THEY ARE NEW OR EXISTING. THESE NOTES SHALL SUPERCEDE ALL OTHER NOTES LOCATED ON THESE DRAWINGS OR OTHER DRAWINGS INCLUDED FOR THIS PERMIT.
 - ALL MATERIALS, EQUIPMENT, OR PIPING SHALL BE APPROVED FOR PLENUM USE IF INSTALLED WITHIN RETURN AIR PLENUMS OR PLENUM CLOSETS. PLENUM WRAPS MAY BE USED IF APPROVED BY AHJ PRIOR TO INSTALL.
 - MATERIALS AND WRAPS SHALL MEET THE FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
 - ALL PLENUM SPACES SHALL COMPLY WITH THE BUILDING CODE, THE MECHANICAL CODE (SECTION 602 IN ITS ENTIRETY), THE PLUMBING CODE, AND THE NATIONAL ELECTRIC CODE IN ADDITION TO ANY APPLICABLE NFPA STANDARDS OR LOCALLY ADOPTED CODES, AMENDMENTS OR ORDINANCES.

PLUMBING SYMBOL LEGEND

DWV PIPING SYSTEM

- SAN SANITARY PIPING
- (E)SAN SANITARY PIPING, EXISTING
- V VENT PIPING
- GW GREASE / WASTE PIPING
- CD CONDENSATE PIPING

DOMESTIC WATER PIPING

- CW COLD WATER PIPING
- (E)CW COLD WATER PIPING
- HW HOT WATER PIPING
- HWR HOT WATER RE-CIRCULATION LINE
- 140° HOT WATER, 140°

STORM PIPING

- ST STORM PIPING (BELOW GRADE)
- PRL PRIMARY ROOF LEADER (ABOVE GRADE)
- SRL SECONDARY ROOF LEADER (ABOVE GRADE)

GAS PIPING

- G GAS PIPING, NATURAL GAS OR LP
- NG GAS PIPING, NATURAL GAS
- LP GAS PIPING, LP GAS

PIPING ROUTING SYMBOLS

- PIPE RISE, INLINE
- PIPE DROP, INLINE
- PIPE RISE, INLINE
- RISE R DROP
- PIPE BOTTOM CONNECTION, 45° OR 90°
- TOP CONNECTION, 45° OR 90° DEG.
- SIDE CONNECTION, TEE
- DWV WYE AND 1/8 BEND
- SANITARY WYE + 1/8 BEND
- CAPPED OUTLET

PIPING SYSTEM ACCESSORIES

- FLOOR DRAIN, ROUND
 - FLOOR DRAIN, SQUARE
 - ROOF/STORM DRAIN
 - FLOOR SINK WITH GRATE
 - BACKWATER VALVE WITH ACCESS, INLINE
 - PIPE UNION
 - ECCENTRIC REDUCER
 - CENTRIC REDUCER
 - DIRECTION OF FLOW
 - HOSE BIB WITH VACUUM BREAKER
 - WALL HYDRANT, ENCLOSED, WITH VACUUM BREAKER
 - BALL VALVE, ACCESSIBLE
 - GATE VALVE
 - BALL VALVE, VERTICAL, ON RISE
 - BACKFLOW PREVENTER, DOUBLE CHECK
 - PRESSURE REDUCING VALVE (PRV)
 - TEMPERATURE GAUGE
 - MANUAL AIR VENT (A) INDICATES AUTOMATIC
 - FLOOR CLEANOUT, END OF LINE
 - FLOOR CLEANOUT, INLINE, DUAL (TWO WAY)
 - GRADE CLEANOUT, INLINE, DUAL (TWO WAY)
 - DUAL GRADE CLEANOUT
 - CHECK VALVE, LISTED FOR SYSTEM OR FLUID TYPE
 - INLINE PUMP, SHOWN WITH MOTOR
 - INLINE PUMP
 - WATER METER, UTILITY
 - WATER METER, PRIVATE, RADIO FREQUENCY (RF), UTILITY GRADE
- ### GAS VALVES & EQUIPMENT
- GAS COCK
 - GAS REGULATOR WITH UNIONS, ACCESSIBLE
 - GAS METER

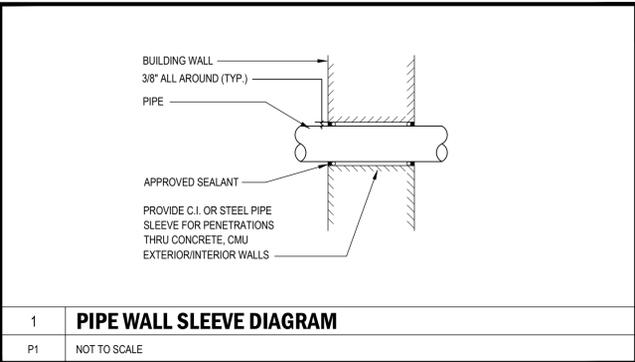
PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	COMPONENTS	PROTOTYPE MANUFACTURER MODEL	TRIM & ACCESSORIES	FIXTURE CONNECTION SIZES					REMARKS
					DRAIN WASTE	VENT	C.W.	H.W.	OTHER	
WC	WATER CLOSET ELONGATED COMFORT HEIGHT	COMPLETE WITH ALL REQUIRED COMPONENTS FOR INSTALLATION	AMERICAN STANDARD EDGEMERE 204AA, 104	PROVIDE WITH OPEN FRONT SEAT, ANGLE SUPPLY WITH STOP.	3"	--	1/2"	--	--	ADA COMPLIANT
LAV	LAVATORY UNDERMOUNT BASIN 24x24	COMPLETE WITH ALL REQUIRED COMPONENTS FOR INSTALLATION	ELKAY QUARTZ WHITE CLASSIC NIDEK ELG2522WH0	PROVIDE WITH PROFLO PFGD100 GRID DRAIN. PROFLO PFXCAZ32CL12 SUPPLY KIT AND PROFLO PFPBT107 P-TRAP.	2"	1-1/2"	1/2"	1/2"	--	ADA COMPLIANT PROVIDE WITH ASSE 1070 LISTED MIXING VALVE SET TO 105 DEGREES
FD	ROUND ADJUSTABLE FLOOR DRAIN 8-1/2" ROUND TOP	COMPLETE WITH ALL REQUIRED ACCESSORIES	JR SMITH 2110Y	TRAP PRIMER SURESEAL #97042 OR APPROVED EQUAL	2"	--	1/2"	--	--	18"x18" AREA AROUND DRAIN TO BE DEPRESSED SLOPE (1/8" PER FOOT) RUBBER BOOT TYPE SEALS ARE UNACCEPTABLE
HB	HOSE BIB (WALL HYDRANT)	COMPLETE WITH ALL REQUIRED ACCESSORIES	WOODFORD MODEL 24B	PROVIDE WITH WALL BOX, ANTI SIPHON VACUUM BREAKER AND LOOSE KEY HANDLE. 3/4" MPT HOSE CONNECTION, WALL FLANGE	--	--	1/2"	--	--	CONFIRM WALL THICKNESS AT INSTALLATION POINTS

ELECTRIC TANKLESS WATER HEATER SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	CAPACITY (GAL.)	ELEMENTS	CW	HW	ENERGY FACTOR	NOTES
EWH	ELECTRIC TANKLESS WATER HEATER	EEMAX - SERIES ONE	EX2412 - SINGLE POINT FLOW CONTROLLED	0 GAL. TANKLESS	2.4 KW @ 120 VOLT, 1 PH. 20 AMPS	1/2"	1/2"	0.99	

NOTES:
ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE RHEEM, A. O. SMITH, AND STIEBEL ELTRON. UNITS SHALL HAVE ABS-UL 94VO RATED COVER, ELEMENT SHALL BE REPLACEABLE CARTRIDGE INSERT, ELEMENT SHALL BE IRON FREE, NICKEL CHROME MATERIAL. UNIT SHALL BE SUPPLIED WITH COMPRESSION FITTINGS. MAXIMUM OPERATING PRESSURE OF 150 PSI



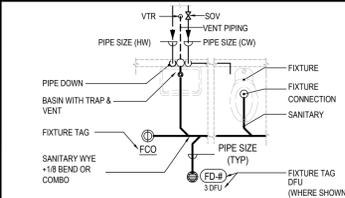
1 PIPE WALL SLEEVE DIAGRAM

P1 NOT TO SCALE

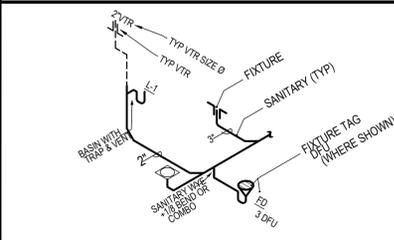
ANNOTATION & SYMBOL LEGEND

- CONNECT TO EXISTING
- POINT OF INTERFACE BETWEEN CONTRACTORS
- CONTINUATION OF PIPING OR SYSTEM, ANNOTATION BREAK
- DIRECTION OF FLOW
- KEYED NOTE
- EQUIPPED TO BE REMOVED / DEMOLISHED
- PIPING TO BE DEMOLISHED
- ASSE 1070 THERMOSTATIC MIXING VALVE AT FIXTURE, 108°F
- ISOMETRIC IDENTITY (NUMBER / SHEET NUMBER)
- DETAIL BUBBLE (DETAIL # / SHEET)
- ELEVATION BUBBLE
- REVISION CLOUD, DELTA / CHANGE MARK

GRAPHIC FLOOR PLAN LEGEND



GRAPHIC ISOMETRIC LEGEND



ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE	HB	HOSE BIBB
AD	AREA DRAIN	HD	HUB DRAIN
AFF	ABOVE FINISHED FLOOR	HW	HOT WATER
AFG	ABOVE FINISHED GRADE	HWR	HOT WATER RETURN
AP	ACCESS PANEL	IN	INCH OR INCHES
APPROX	APPROXIMATE	INV	INVERT
ARCH	ARCHITECTURAL	KW	KILOWATT
BLDG	BUILDING	LAV	LAVATORY
BTUH	BRITISH THERMAL UNIT HOUR	LBS	POUNDS
CA	COMPRESSED AIR	MAX	MAXIMUM
CD	CONDENSATE DRAIN	MFR	MANUFACTURER
CFH	CUBIC FEET PER HOUR	MN	MINIMUM
CFM	CUBIC FEET PER MINUTE	MTD	MOUNTED
CLG	CEILING	NIC	NOT IN CONTRACT
CO	CLEANOUT	NO	NORMALLY OPENED
CONC	CONCRETE	No. or #	NUMBER
CONN	CONNECTION	OC	ON CENTER
COORD	COORDINATE	OSAY	OUTSIDE SCREW AND YOKE
CW	COLD WATER	P#	PUMP NUMBER
DEG	DEGREES	PD	PRESSURE DROP
DFU	DRAINAGE FIXTURE UNITS	PVC	POLY-VINYL CHLORIDE
DA	DIAMETER	PC	PLUMBING CONTRACTOR
DN	DOWN	RD	ROOF DRAIN
DP	DIFFERENTIAL PRESSURE	RM	ROOM
DWG	DRAWING	RWL	RAIN WATER LEADER
EC	ELECTRICAL CONTRACTOR	SAN	SANITARY
EL	ELEVATION	SF	SQUARE FEET
ELEC	ELECTRICAL EQUIPMENT	ST	STORM
EQUIP	EQUIPMENT	TD	TRENCH DRAIN
ETC	ETCETERAS	TEMP	TEMPERATURE
EWG	ELECTRIC WATER COOLER	TYP	TYPICAL
EWH	ELECTRIC WATER HEATER	UG	UNDER GROUND
EWT	ENTERING WATER TEMPERATURE	UNON	UNLESS OTHERWISE NOTED
EX	EXISTING	UR	URNAL
FCD	FLOOR CLEANOUT	VAC	VACUUM
FD	FLOOR DRAIN	VFD	VARIABLE FREQUENCY DRIVE
FFD	FUNNEL FLOOR DRAIN	VF	VERIFY IN FIELD
FL	FLOOR	VOL	VOLUME
FS	FLOOR SINK	VTR	VENT THROUGH ROOF
FT	FEET	WC	WATER CLOSET
FU	FIXTURE UNITS	WCO	WALL CLEANOUT
FURN	FURNISHED	WH	WALL HYDRANT
GC	GENERAL CONTRACTOR	WHA	WATER HAMMER ARRESTOR
GCO	GRADE CLEANOUT	WHP	WEATHER PROOF
GPH	GALLONS PER HOUR	WSFU	WATER SUPPLY FIXTURE UNITS
GPM	GALLONS PER MINUTE	YBS	YARD VALVE BOX

CODE COMPLIANCE STATEMENT

ENTIRE INSTALLATION SHALL COMPLY WITH CODES BELOW, IN ADDITION TO ALL REFERENCED STANDARDS OR ANY OTHER LOCALLY ADOPTED AMENDMENTS.

FLORIDA BUILDING CODE:	2023 EDITION
FLORIDA ENERGY CODE:	2023 EDITION
FLORIDA FIRE CODE:	2023 EDITION
FLORIDA FUEL GAS CODE:	2023 EDITION
FLORIDA MECHANICAL CODE:	2023 EDITION
FLORIDA PLUMBING CODE:	2023 EDITION
FLORIDA FIRE PREVENTION CODE:	2023 EDITION
NATIONAL ELECTRICAL CODE:	2020 EDITION

TO THE BEST OF OUR KNOWLEDGE, THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE ABOVE INDICATED CODES.

SHOCK ARRESTOR SCHEDULE

DESIGNATION	MANUFACTURER	SERIES TYPE	FIXTURE UNITS	ASSE TEST STANDARD	MAX PSIG / TEMP
A	SILOUX CHIEF	A	01 - 11	ANSI/ASSE 1010-2004	250 PSIG / 250° F
B	SILOUX CHIEF	B	12 - 32		
C	SILOUX CHIEF	C	33 - 60		
D	SILOUX CHIEF	D	61 - 113		
E	SILOUX CHIEF	E	114 - 154		
F	SILOUX CHIEF	F	155 - 230		

PIPE SCHEDULE

DESCRIPTION	LOCATION	MATERIAL WEIGHT (NOTE)	ASTM
SANITARY PIPING	ABOVE GRADE	PVC, SCHEDULE 40	ASTM, D2846, F441, F442, CSA B137.6
	BELOW GRADE	PVC, SCHEDULE 40	ASTM, D2846, F441, F442, CSA B137.6
	PLENUM SPACES	CAST IRON, SCHEDULE 40	ASTM, A74-21
	ALL WASTE TEMP > 140°	CAST IRON, SCHEDULE 40	
GREASE WASTE PIPING	ABOVE GRADE	PVC, SCHEDULE 40	ASTM, D2846, F441, F442, CSA B137.6
	BELOW GRADE	PVC, SCHEDULE 40	ASTM, D2846, F441, F442, CSA B137.6
	PLENUM SPACES	CAST IRON, SCHEDULE 40	---
	ALL WASTE TEMP > 140°	CAST IRON, SCHEDULE 40	---
STORM PIPING	ABOVE GRADE	PVC, SCHEDULE 40	ASTM D2846, F441, F442, CSA B137.6
	BELOW GRADE	PVC, SCHEDULE 40	ASTM D2846, F441, F442, CSA B137.6
	PLENUM SPACE	CAST IRON, SCHEDULE 40	---
DOMESTIC WATER PIPING	CONCEALED	CPVC, SCHEDULE 40 (OR) UPONOR PEX TYPE A	ASTM, D2846, F441, F442, CSA B137.6
	EXPOSED	CPVC, SCHEDULE 40	ASTM, D2846, F441, F442, CSA B137.6
	PLENUM	CPVC, SCHEDULE 40 (FLAMESPREAD 20, SDI 50) TESTED PER ASTM E84 / UL723	ASTM, D2846, F441, F442, CSA B137.6
CONDENSATE PIPING	ABOVE / BELOW GRADE	CPVC, SCHEDULE 40 OR PVC SCHEDULE 40	ASTM, D2846, F441, F442, CSA B137.6
	PLENUM	CPVC, SCHEDULE 40 (FLAMESPREAD 20, SDI 50) TESTED PER ASTM E84 / UL723	ASTM, D2846, F441, F442, CSA B137.6

CLEANOUT SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER
FCD	FLOOR CLEANOUT	WATTS	CO-200-R
WCO	WALL CLEANOUT (INTERIOR)	WATTS	CO-590-RD
GCO	GRADE CLEANOUT (EXTERIOR)	WATTS	CO-300-MF

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AA 26003303
(239) 549-0997

DRAWN BY ---
CHECKED BY ---
ISSUED FOR:
PERMIT/BID SET 05/09/25
REV-1 BLDG COM 08/20/25

ARCHITECT/ENGINEER STAMP

DRAWING NAME:

SHEET

P1

ST. JAMES CITY FIRE STATION
STORAGE BUILDING
5015 STRINGFELLOW ROAD
ST. JAMES CITY, FL 33956

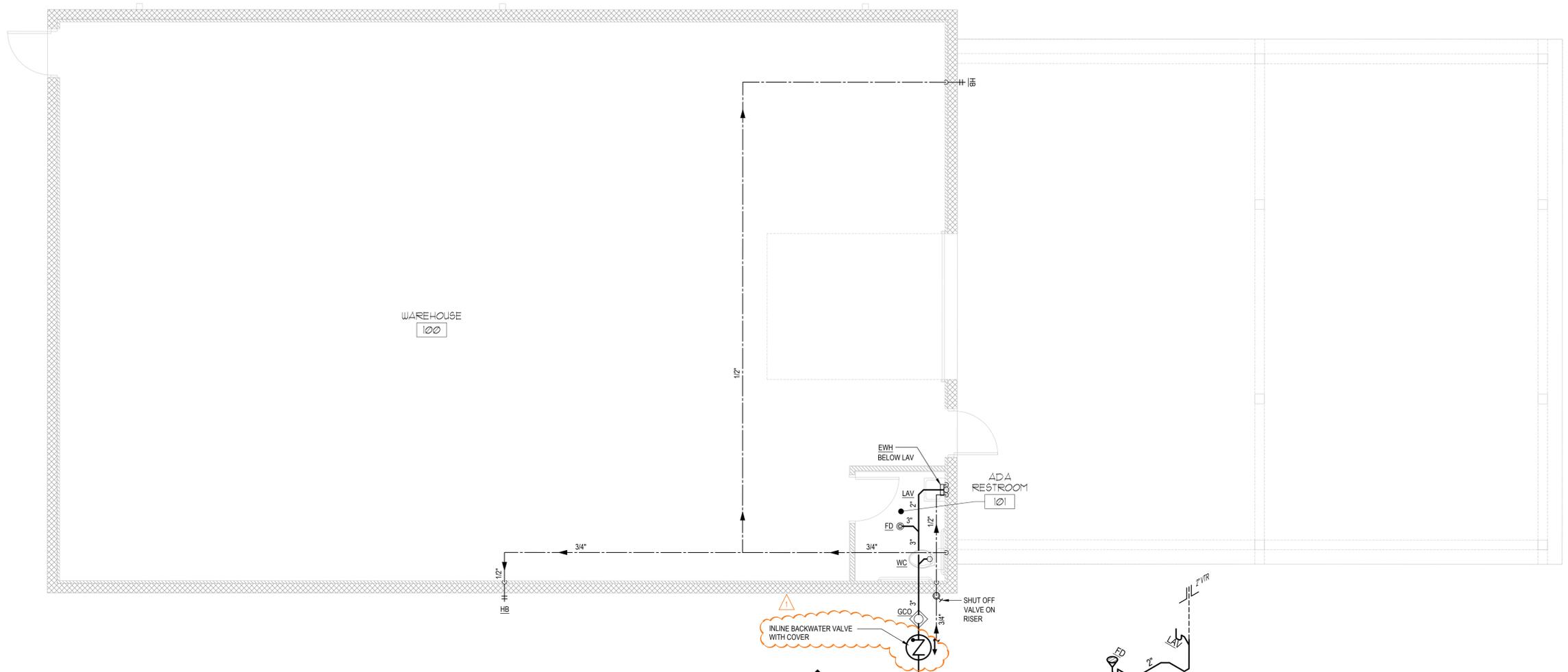
CASTELLANOS + TRAMONTE
ARCHITECTS
1228 LAFAYETTE STREET SUITE #1 CAPE CORAL, FLORIDA 33904
(239) 549-0997

DRAWN BY	---
CHECKED BY	---
ISSUED FOR:	
PERMIT/BID SET	05/09/25
REV-1 BLDG COM	08/20/25

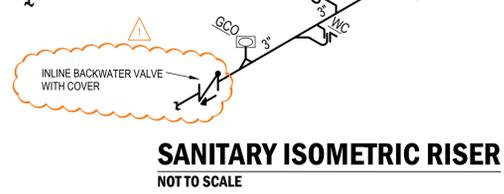
ARCHITECT/ENGINEER STAMP

DRAWING NAME:

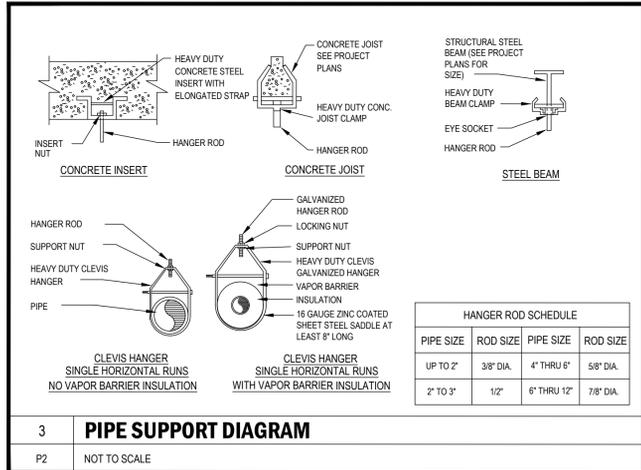
SHEET
P2



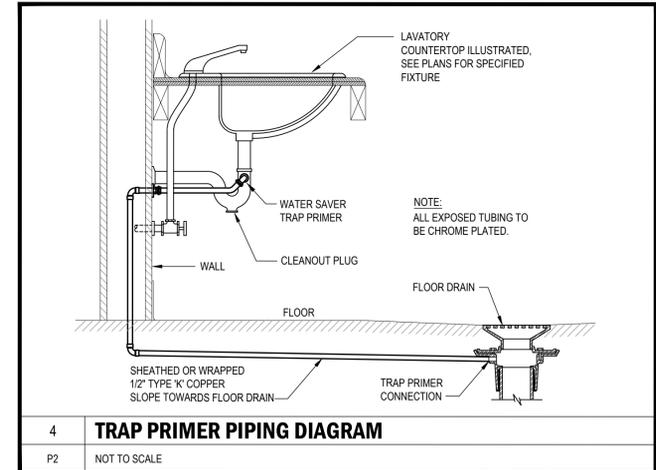
PLUMBING FLOOR PLAN
SCALE: 1/4" = 1'-0"



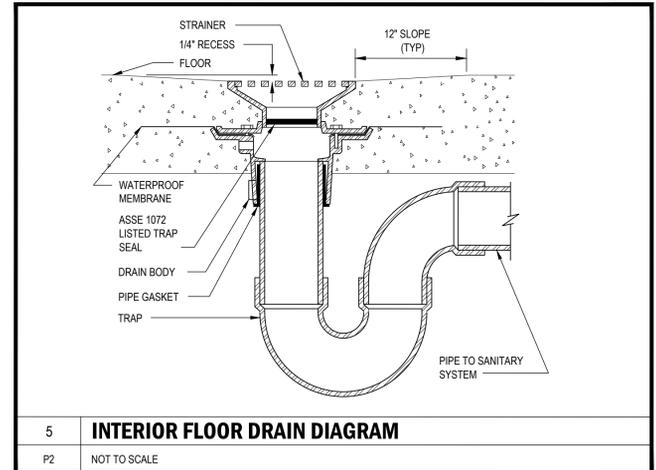
SANITARY ISOMETRIC RISER
NOT TO SCALE



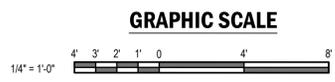
3 PIPE SUPPORT DIAGRAM
P2 NOT TO SCALE



4 TRAP PRIMER PIPING DIAGRAM
P2 NOT TO SCALE



5 INTERIOR FLOOR DRAIN DIAGRAM
P2 NOT TO SCALE



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