## GENERAL PLUMBING NOTES

PLUMBING FIXTURES SHALL COMPLY WITH (F.B.C. 2014 PLUMBING TABLE 604.4)

DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC. THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION.

ALL WORK AND MATERIALS SHALL COMPLY WITH LATEST EDITIONS OF THE NATIONAL, STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.

THE PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE PART OF THIS CONTRACT.

ALL MATERIALS SHALL BE NEW AND FREE OF NOTICEABLE DEFECTS.

ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR AND IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY THE ENGINEER/ARCHITECT AS SUCH.

ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.

VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION. IMMEDIATELY ADVISE THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES. ALL EXISTING PLUMBING SHOWN ON THE PLANS IS ESTIMATED AND MAY NOT BE IN THE SAME LOCATION AS SHOWN, CONTRACTOR MUST VERIFY EXISTING

PLUMBING PRIOR TO COMMENCING WORK. PROVIDE A MINIMUM PITCH OF 1/8" FOR 3" OR LARGER PIPES, 1/4" PITCH FOR LESS THAN 3" PIPES.

PROVIDE A CLEANOUT AT THE BASE OF EACH SOIL AND WASTE STACK. PROVIDE MEANS OF RESEALING ALL FLOOR DRAINS.

AN OPEN VENT TERMINAL FROM A DRAIGAGE SYSTEM SHALL NOT BE LOCATED DIRECTLY BENEATH ANY DOOR, OPENABLE WINDOW, OR OTHER AIR INTAKE OPENING OF THE BUILDING OR OF AN ADJACENT BUILDING, AND ANY SUCH VENT TERMINAL SHALL NOT BE WITHIN 10 FEET HORIZONTALLY OF SUCH AN OPENING UNLESS IT IS AT LEAST 2 FEET ABOVE THE TOP OF SUCH OPENING. (F.B.C. 2014 PLUMBING 904.5)

PROVIDE 1/2" COLD WATER TRAP PRIMER FOR ALL DRAINS FROM THE NEAREST PLUMBING FIXTURE, WHERE APPLICABLE.

SHUTOFF VALVE SHALL BE INSTALLED ON THE WATER SUPPLY PIPE TO EACH APPLIANCE OR MECHANICAL EQUIPMENT AS PER (F.B.C. 2014 PLUMBING 606.2.3)

A WATER HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK - CLOSING VALVES ARE UTILIZED, UNLESS OTHERWISE APPROVED. THE ARRESTOR SHALL BE LOCATED WITHIN AN EFFECTIVE RANGE OF THE QUICK - CLOSING VALVE. ACCESS SHALL BE PROVIDED TO WATER HAMMER ARRESTORS.

<u>CLEVIS HANGER</u> SINGLE HORIZONTAL RUNS NO HOT WATER WITH A TEMPERATURE HIGHER THAN 140° TO DISCHARGE INTO SANITARY. THE DEVELOPED LENGTH OF HOT WATER PIPING FROM THE SOURCE OF HOT WATER SUPPLY TO THE FARTHEST FIXTURE SHALL BE LESS THAN 100 FT.

THE HOT WATER SUPPLY TO ANY FIXTURE REQUIRING HOT WATER SHALL BE INSTALLED ON THE LEFT SIDE OF THE FIXTURE. (F.B.C. 2014 PLUMBING 607.4)

ALL INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP OR AIR BREAK INTO A WASTE RECEPTOR OR STANDPIPE. WASTE RECEPTORS AND STANDPIPES SHALL BE TRAPPED AND VENTED AND SHALL CONNECT TO THE BUILDING DRAINAGE SYSTEM. ALL INDIRECT WASTE PIPING THAT EXCEEDS 2 FT IN DEVELOPED LENGTH MEASURED HORIZONTALLY, OR 4 FT IN TOTAL DEVELOPED LENGTH, SHALL BE TRAPPED. (F.B.C. 2014 PLUMBING 802.2)

ALL DEVICES INTENDED TO SERVE SOME SPECIAL FUNCTION AND THAT CONNECT TO THE WATER SUPPLY SYSTEM SHALL BE PROVIDED WITH PROTECTION AGAINST BACKFLOW AND CONTAMINATION OF THE WATER SUPPLY SYSTEM. (F.B.C. 2014 PLUMBING 608.3)

NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE PURGED OF DELETERIOUS MATTER AND, DISINFECTED PRIOR TO UTILIZATION. (F.B.C. 2014 PLUMBING 610.1)

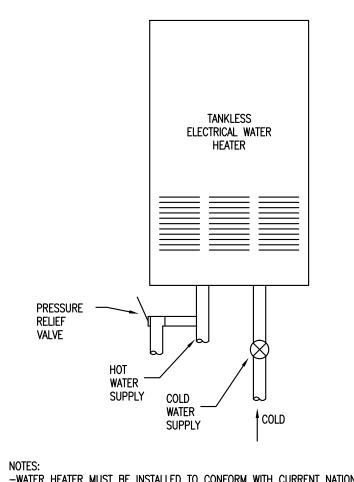
THE WATER SUPPLY CONNECTION TO CARBONATED BEVERAGE DISPENSERS SHALL BE PROTECTED AGAINST BACKFLOW BY A DOUBLE CHECK VALVE WITH AN INTERMEDIATE ATMOSPHERIC VENT CONFORMING TO ASSE 1022 OR BY AN AIR GAP. (F.B.C. 2014) PLUMBING 608.16.1)

DISCHARGE FROM A COMMERCIAL DISHWASHING MACHINE SHALL BE THROUGH AN AIR GAP OR AIR BREAK INTO A STANDPIPE OR WASTE RECEPTOR. (F.B.C. 2014 PLUMBING

HOT WATER AND DRAIN PIPES UNDER SINKS AND/OR LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

PROVIDE BACKFLOW PREVENTER FOR COFFEE AND TEA BREWER, ICE WATER STATION, BAG IN BOX SYSTEM AND HOT FOOD UNIT.

HOT WATER PIPES OF SIZE <1-1/2" TO HAVE MINIMUM 1" INSULATION AND HOT WATER PIPES OF SIZE >1-1/2" TO HAVE 1.5" INSULATION AS PER FLORIDA CONSERVATION CODE 2014 TABLE C403.2.8.



-WATER HEATER MUST BE INSTALLED TO CONFORM WITH CURRENT NATIONAL ELECTRIC CODE, NATIONAL FUEL GAS CODE, AND ANY APPLICABLE LOCAL PLUMBING, ELECTRICAL, HEATING AND AIR CONDITIONING CODES, AND MANUFACTURER INSTALLATION INSTRUCTIONS -PROTECT HEATER FROM FREEZING

TANKLESS ELEC. WATER HEATER

NTS

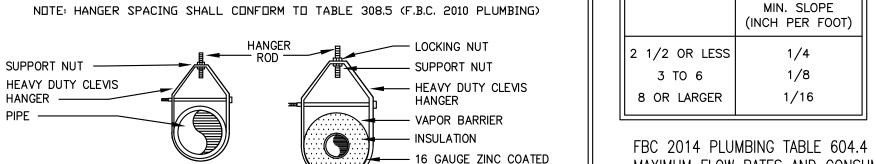
TANKLESS WATER HEATER NOTES:

POTABLE WATER EXPANSION TANK IS <u>NOT</u> REQUIRED FOR TANKLESS WATER HEATER. (F.B.C. 2014 PLUMBING 607.3.2)

SET WATER HEATER TEMP @ 110°

THE RELIEF VALVE SHALL DISCHARGE FULL SIZE TO A SAFE PLACE OF DISPOSAL. THE DISCHARGE PIPE SHALL NOT HAVE ANY TRAPPED SECTIONS AND SHALL HAVE A VISIBLE AIR GAP LOCATED IN THE SAME ROOM AS THE WATER HEATER. (F.B.C. 2014 PLUMBING 504.6.1)

THE MINIMUM DIAMETER OF WATER SERVICE PIPE SHALL BE 3/4 INCH WATER SERVICE SHALL BE SIZED IN ACCORDANCE WITH TABLE 603.1 OR OTHER APPROVED METHODS. (F.B.C. 2014 PLUMBING 603.1)

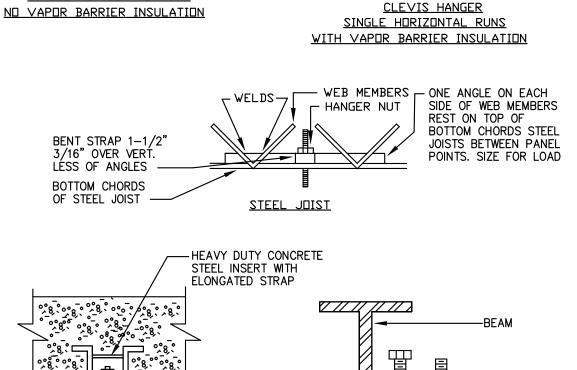


MAXIMUM FLOW RATES AND CONSUMPTION FOR SHEET STEEL SADDLE AT LEAST 8" LONG PLUMBING FIXTURES AND FIXTURE FITTINGS.

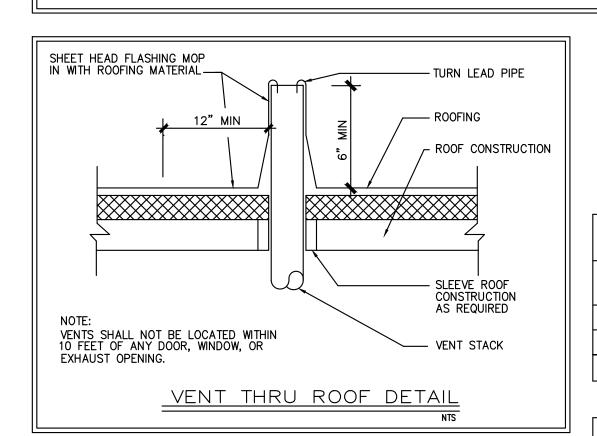
> PLUMBING FIXTURE MAXIMUM FLOW RATE OR FIXTURE FITTING OR QUANTITY LAVATORY, PUBLIC 0.5 GPM AT 60 PSI SINK FAUCET 2.2 GPM AT 60 PSI WATER CLOSET 1.28 GALLON PER FLUSHING CYCLE

> > PIPE MAY EXTEND

AS WASTE OR VENT.



- HANGER ROD CONCRETE INSERT STEEL BEAM ■—HANGER ROD. SIZE AS REG. PIPE SUPPORT DETAIL (FOR SANITARY & WATER PIPING)



<u>PIPING NOTES:</u>
- SANITARY PIPING TO BE SCHEDULE 40 PVC PIPE. ALL VENT PIPING SHALL BE SCH. 40 PVC PIPE. - COLD WATER PIPING OUTSIDE BUILDING SHALL BE TYPE "K" COPPER.

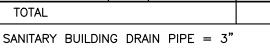
- HOT AND COLD WATER PIPING ABOVE GROUND SHALL BE TYPE "L" COPPER WITH APPROVED CAST BRASS OR WROUGHT COPPER SOLDER JOINT FITTINGS.

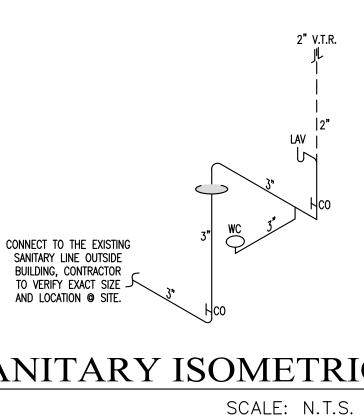
PROVIDE CLEANOUT TEE WITH SCREWED COUNTER-SUNK ABS PLASTIC PLUG: TAPERED-THREAD WITH TFE JOINT COMPOUND. CLEANOUT WHERE CLEANOUT TEE FACE SHALL IS CONCEALED IN A BE WITHIN CHASE OR PARTITION, PROVIDE A ROUND 18
GAUGE STAINLESS STEEL 4" OF WALL SURFACE. PROVIDE COVER WITH BEVELED EDGES AND FLATHEAD **EXTENSION** IF REQUIRED. MACHINE SCREW. — HUB AT FLOOR CONCRETE FLOOR RISER LENGTH SLAB. AS REQUIRED -LONG SWEEP AT END OF LINE OR COMBINATION WYE AND EIGHTH BEND IN DIRECTION RUN OF LINE. | | ∀ ◀ OF FLOW WALL CLEANOUT NTS

11 (>)-/-

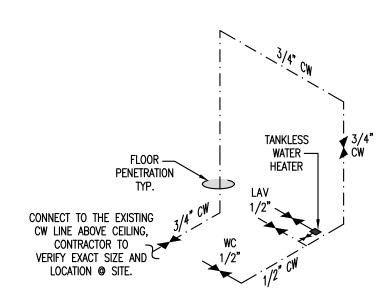
WATER SIZING CALCULATION — FLUSH TANK WC TABLE E103.3(2)						
	NO.	LOAD VALUES IN WATER SUPPLY FIXTURE UNITS			TOTAL	
FIXTURE TYPE		COLD WATER	HOT WATER	TOTAL	TOTAL	
WATER CLOSET	1	5.0	_	5.0	5	
LAVATORY	1	1.5	1.5	2.0	2	
TOTAL					7	
MIN. WATER PIPE DIA	METER R	EQUIRED = 3/4'	,			

SANITARY SIZING CALCULATION TABLE 709.1						
FIXTURE TYPE	NO.	F.U. EACH	TOTAL			
WATER CLOSET	1	6	6			
LAVORATORY	1	1	1			
TOTAL			7			

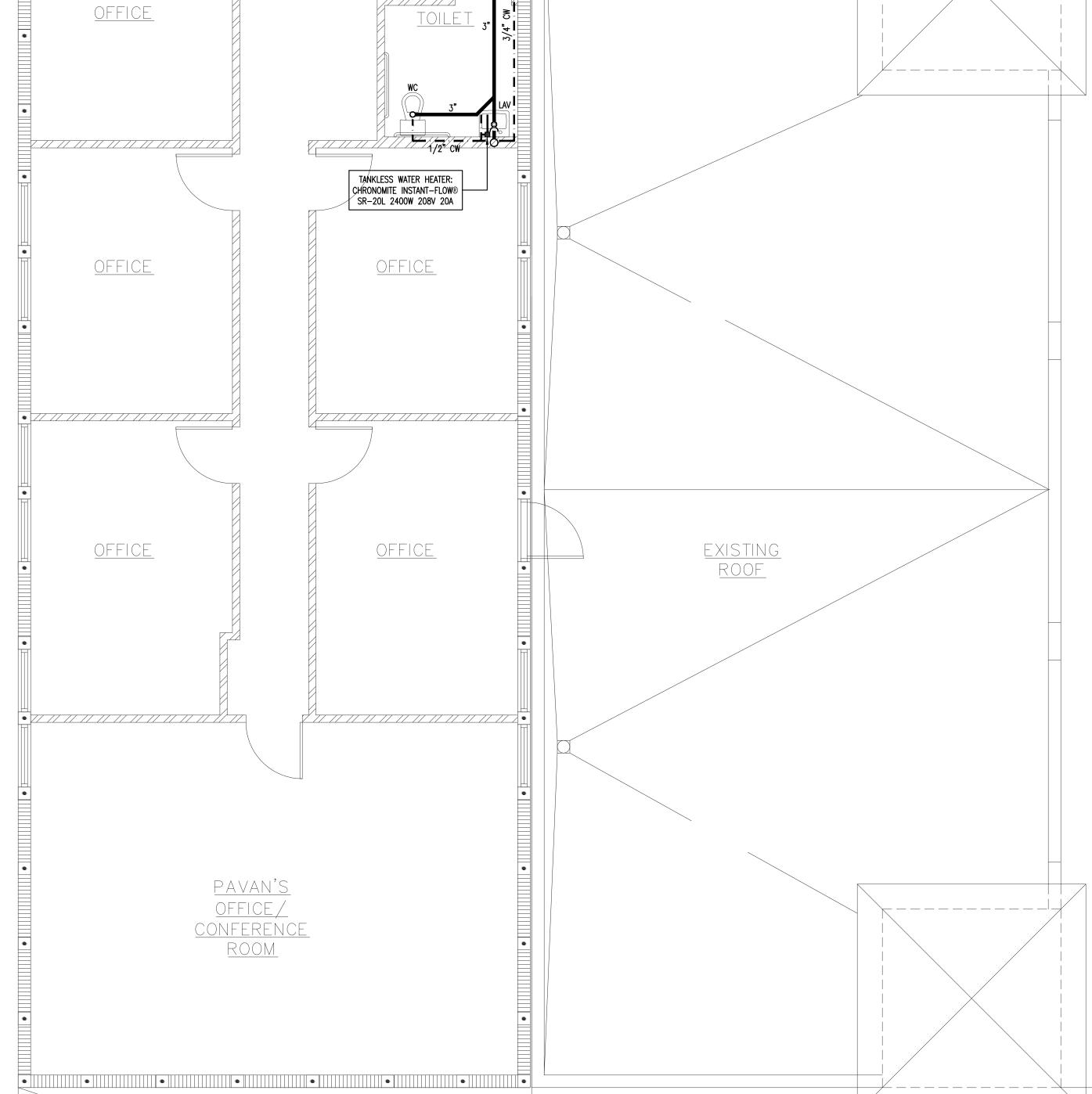




SANITARY ISOMETRIC



WATER ISOMETRIC SCALE: N.T.S.



DOWN TO 1ST FLOOR.

SANITARY LINE, CONTRACTOR

TO VERIFY EXACT SIZE

AND LOCATION O SITE.

CW LINE FROM 1ST FLOOR.

CONNECT TO THE EXISTING

CW LINE, CONTRACTOR TO

VERIFY EXACT SIZE AND

LOCATION @ SITE.

| CONNECT TO THE EXISTING —

2ND FLOOR PLUMBING PLAN SCALE: 1/4" = 1'-0"

AUG. 21, 2015 AS SHOWN project # 15.138

BUCHANAN P.E CONSULTING INC. ELECTRICAL \* MECHANICAL \* PLUMBING ENGINEERING 6191 W. ATLANTIC BLVD, SUITE# 2 MARGATE, FL 33063 Ph: 954-590-3300 Fax: 954-590-2232 Email: BUCHANAN@MEPENGINEERS.COM CERTIFICATE OF AUTHORIZATION # 8842 □RAJA BUCHANAN P.E # 48916 □MAURICE L□RD P.E # 72550 | DATE: \_\_\_\_\_

P-1

H. DeMello

#1

ADDITION

FLOOR

SECOND