



CONSULTANT:

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THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNTIL THE SEAL AND SIGNATURE OF THE RESPONSIBLE REGISTRANT APPEARS ON THE DRAWING, AND PROPER PERMIT FORMS AND RELATED FEES ARE TRANSMITTED BY THE OWNER, OWNER'S AGENT OR CONTRACTOR TO THE AUTHORITY HAVING JURISDICTION.

DATE	ISSUED FOR	REV
10/12/2017	PLANNING SUBMITTAL	
10/27/2017	PEMB COORDINATION	
12/15/2017	PLANNING RE-SUBMITTAL	
12/15/2017	PERMIT	

<b>Project Manager</b> B. COLBURN	<b>Drawn</b> T. PATTERSON
<b>Project Leader</b> B. COLBURN	<b>Checked</b> H. MONTAGUE
<b>Date</b> 10/01/2017	<b>Dept Mgr Approval</b> H. MONTAGUE
<b>Client</b> Palmetto NFM - Hancock Bridge PKWY, LLC.	

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**Project**  
**DOLLAR GENERAL**  
4055 Hancock Bridge Parkway  
North Fort Myers (Lee County), FL  
Section 9, Township 44S., Range 24E.

**Drawing Title**  
**PLUMBING DETAILS AND RISER DIAGRAMS**

DO NOT SCALE DRAWING	
<b>Project No.</b> JCDT17.0313.00	<b>Drawing No.</b> P2

**GENERAL PLUMBING NOTES & SPECIFICATIONS**

- GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING WORKING DRAWINGS.
- THE WORK SHALL BE EXECUTED IN STRICT CONFORMITY WITH BASE BUILDING SPECIFICATION AND WITH THE LATEST EDITION OF THE PREVALING LOCAL PLUMBING AND BUILDING CODES AND ALL LOCAL REGULATIONS THAT MAY APPLY. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE THE MORE STRINGENT STANDARD SHALL APPLY.
- ALL PLUMBING WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE PROCEEDING WITH INSTALLATION.
- PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- ROUGH-IN DIMENSIONS OF TOILET FIXTURES MUST BE COORDINATED WITH GENERAL CONTRACTOR AND FIELD SUPERVISOR.
- INSTALL BALL VALVES ON ALL BRANCH SUPPLY LINES.
- PROVIDE ACCESS PANELS ON ALL INACCESSIBLE VALVES AND CLEANOUTS. ACCESS PANELS SHALL BE PROVIDED BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION. MOUNT SHUT-OFF VALVES NO HIGHER THAN 12'-8" AFF.
- ALL WORK SHALL BE PROPERLY TESTED, BALANCED AND CLEANED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
- FOLLOW PDI STANDARDS FOR WATER HAMMER ARRESTORS.
- ALL FIXTURES TO BE SUPPLIED & INSTALLED BY PLUMBING CONTRACTOR.
- GENERAL CONTRACTOR SHALL COORDINATE WATER METER LOCATION AND INSTALLATION WITH LOCAL AUTHORITIES AND CIVIL DRAWINGS.
- PROVIDE BUILDING SERVICE LINE 5'-0" FROM BUILDING LINE, OR INSIDE BUILDING FROM OUTSIDE OF METER AS SHOWN ON CIVIL SITE PLAN. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS AND AT JOB SITE. LOCAL MUNICIPALITIES REQUIRE BACKFLOW PREVENTION DEVICE, A MINIMUM RPZ TYPE.
- SANITARY SEWER PIPING SHOWN IS BASED ON 0.125" TYP FOR 3"-6" & 0.250" TYP FOR 2" OR LESS FOR ALL PIPING. COORDINATE BUILDING SEWER LOCATION AND INVERT ELEVATION WITH CIVIL DRAWINGS.
- TRAP SEAL PRIMERS ARE TO BE PROVIDED AT NO ADDITIONAL COST TO OWNER. REQUIRE LOCAL BUILDING CODE OFFICIALS.
- VTR'S SHALL BE LOCATED A MINIMUM OF 5' FROM ANY PERMET WALL AND 10' FROM ANY RTU AIR INTAKE.
- FURNISH ALL MATERIAL, LABOR, EQUIPMENT, AND ACCESSORIES AS REQUIRED TO INSTALL COMPLETE PLUMBING AND HVAC PIPING SYSTEMS AS INDICATED ON MECHANICAL DRAWINGS AND IN THESE SPECIFICATIONS.
- SANITARY SEWERS**
  - INSTALL SANITARY SEWERS, STOPS, VENTS, DRAINS, CLEANOUTS, ETC., AS INDICATED ON THE DRAWINGS.
  - SEWERS TO BE PROVIDED A MINIMUM OF 1/4" PER FOOT FOR SIZES AND UNDER AND 1/8" PER FOOT FOR 4" SIZES AND LARGER OR TO GRATES INDICATED ON DRAWINGS.
  - CHANGES IN DIRECTION AND BRANCH CONNECTIONS SHALL BE MADE WITH APPROVED DRAINAGE FITTINGS COMPATIBLE WITH THE PIPING SYSTEM MATERIAL WHICH IT IS INSTALLED.
  - ADDITIONAL SANITARY DRAINS SHALL BE INSTALLED AS INDICATED ON DRAWINGS AND IN ACCORDANCE WITH CODE.
  - VENTS ARE TO BE EXTENDED THROUGH ROOF AS INDICATED ON DRAINS AND FLASHED WITH 4 LB. LEAD WITH VENT FLASHING TO BE EXTENDED THROUGH ROOF TWO (2) INCHES MINIMUM INSIDE PIPE.
  - BELOW GRADE SANITARY INSIDE BUILDING SERVICE WEIGHT POLYESTER REINFORCED CAST IRON PIPE PER ASTM A74-82 WITH ASTM C564-70 NEOPRENE COMPRESSION JOINTS OR NO-HUB WITH CLAMPS.
  - 4" DWV PLASTIC PER ASTM D1785 WITH ASTM D2665 DWV SOLVENT WELD SOCKET FITTINGS.
- ABOVE GRADE SANITARY SEWER AND VENT**
  - 4" RIBBON CAST IRON PIPE CISPI 1-301-78.
  - 4" DWV PLASTIC PER ASTM D1785 WITH ASTM D2665 DWV SOLVENT WELD SOCKET FITTINGS (IN CONCEALED AREAS ONLY).
  - VENTS SHALL NOT BE INSTALLED IN CEILING (PLENUMS) OR UNDER FLOORS.
  - SCHEDULE 40 GALVANIZED STEEL PIPE, ASTM A53-83 WITH CAST IRON SCREWED FITTINGS ANSI B16.22 1983.
- DOMESTIC WATER PIPING**
  - INSTALL DOMESTIC WATER PIPING AS INDICATED ON DRAWINGS. INCLUDE ALL FITTINGS, VALVES, HANGERS AND OTHER ACCESSORIES. EXTEND DOMESTIC WATER PIPING TO ALL FIXTURES AND EQUIPMENT REQUIRED FOR COMPLETE INSTALLATION.
  - INCLUDE UNIONS, OR OTHER DISCONNECT MEANS, STOPS OR VALVES FOR ISOLATION OF FIXTURES AND EQUIPMENT. VALVES TO BE FULLY COMPATIBLE WITH PIPING FOR SERVICE INTENDED AS MANUFACTURED BY NIBCO, CRANE OR MILWAUKEE. INCLUDE HOSE OR DRAIN VALVES AT LOW POINTS WHERE FIXTURES CANNOT BE USED FOR DRAINAGE.
  - PROVIDE WATER HAMMER ARRESTERS OF TYPE AS INDICATED ON THE DOMESTIC WATER RISER DIAGRAM. THESE SHALL BE ASSE 1010 OR PDI-WH201, PISTON TYPE WITH PRESSURIZED METAL-TUBE CUSHIONING CHAMBER AS MANUFACTURED BY SIOUX CHEM. AMTROL, JOSAM OR ZURN.
  - HANGERS ON INSULATED PIPE TO BE OUTSIDE OF INSULATION, SIZED ACCORDINGLY AND WITH A SUFFICIENT SADDLE TO PROTECT INSULATION.
- DOMESTIC WATER PIPING SHALL BE AS FOLLOWS:**
  - ABOVE GRADE - TYPE "L" HARD COPPER PER ASTM B88-832 WITH WROUGHT COPPER FITTINGS PER ASTM B16.22 1980 AND NON-LEAD OR ANTIMONY SOLDER JOINTS.
  - BELOW GRADE - TYPE "K" SOFT COPPER WITHOUT SPLICES OR FITTINGS.
  - FLUSH, VENT AND SANITIZE ALL WATER PIPING WITH CHLORINE AS REQUIRED PER AWWA, LOCAL BUILDING DEPARTMENT AND HEALTH DEPARTMENT CODES.
  - DOMESTIC HOT AND COLD WATER PIPING UNDER CONCRETE FLOOR TO BE COVERED WITH SAND SO THAT PIPING WILL NOT BECOME EMBEDDED IN THE FLOOR SLAB.
  - ALL PIPING UNDER CONCRETE FLOOR SHALL BE TYPE "K" SOFT COPPER, CONTINUOUS. NO SPLICES OR FITTINGS WILL BE ALLOWED.
  - EXTREME CAUTION MUST BE TAKEN SO THAT NO COPPER PIPING AND INSULATION UNDER CONCRETE FLOORS BECOMES CRUSHED, CUT, SPLIT OR DEFORMED DURING THE POURING OF THE FLOOR SLAB.

**DOMESTIC WATER CALCULATIONS**

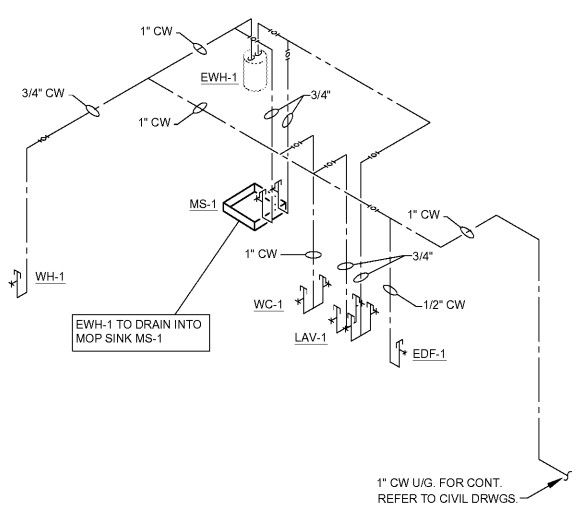
TAG	FIXTURE TYPE	QUANTITY	FIXTURE UNIT	SUB-TOTAL FIXTURE UNITS
EDF-1	ELECTRIC DRINKING FOUNTAIN	1	0.25	0.25
WH-1	WALL HYDRANT	1	2.0	2.00
LAV-1	LAVATORY	2	1.5	3.00
MS-1	MOP SERVICE BASIN	1	2.25	2.25
WC-1	WATER CLOSET	2	5.0	10.00
<b>TOTAL FIXTURE UNITS:</b>				<b>17.50</b>
<b>TOTAL GPM:</b>				<b>19.6</b>
<b>EQUIPMENT MAKE-UP WATER:</b>				<b>0</b>
<b>MINIMUM SERVICE SIZE:</b>				<b>1"</b>

**SANITARY SEWER CALCULATIONS**

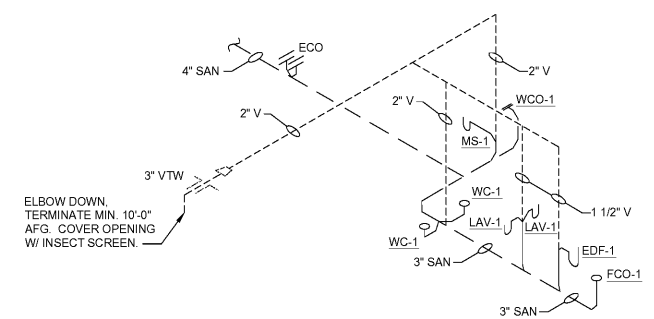
TAG	FIXTURE TYPE	QUANTITY	FIXTURE UNIT	SUB-TOTAL FIXTURE UNITS
EDF-1	ELECTRIC DRINKING FOUNTAIN	2.0	0.5	1.00
FD-1	FLOOR DRAIN	1.0	2.0	2.00
LAV-1	LAVATORY	2.0	1.0	2.00
MS-1	MOP SERVICE BASIN	1.0	2.0	2.00
WC-1	WATER CLOSET	2.0	4.0	8.00
<b>TOTAL FIXTURE UNITS:</b>				<b>15.00</b>
<b>MINIMUM SERVICE SIZE:</b>				<b>4"</b>

**PLUMBING FIXTURE PIPING SCHEDULE**

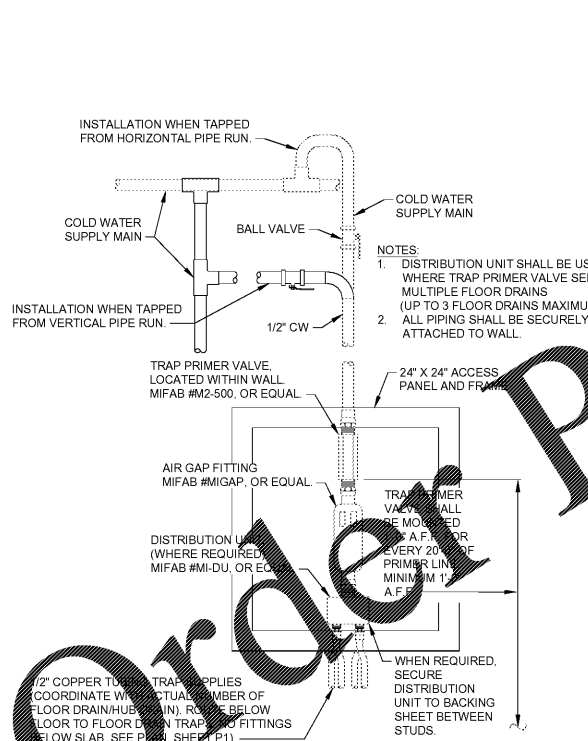
TAG	FIXTURE TYPE	LINE SIZES				
		WASTE	TRAP	VENT	COLD	HOT
WC-1	WATER CLOSET	4	-	2	1 1/4	
LAV-1	LAVATORY	1 1/2	1 1/4	1 1/2	1/2	1/2
EDF-1	ELECTRIC DRINKING FOUNTAIN	1 1/2	1 1/4	1 1/2	1/2	-
MS-1	MOP SERVICE BASIN	1 1/2	1 1/4	1 1/2	1/2	1/2



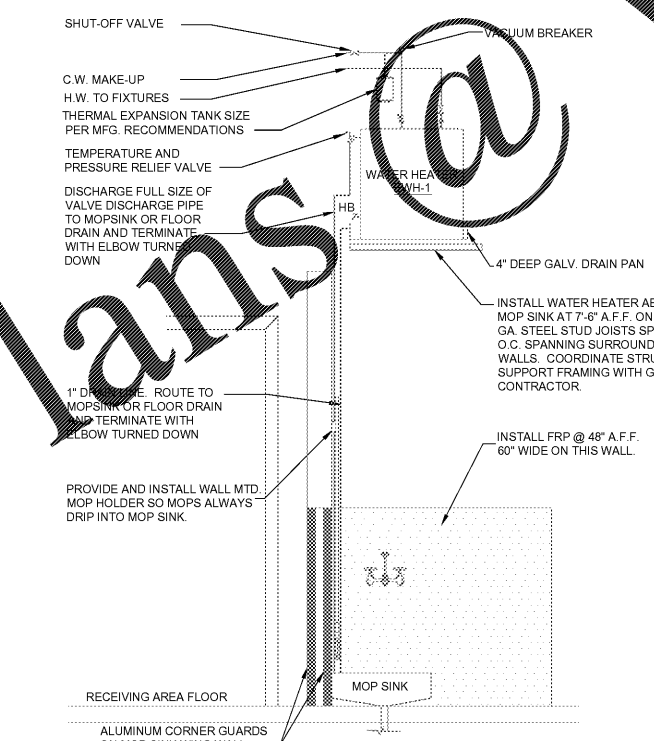
**1 COLD & HOT WATER DIAGRAM**  
Scale: No Scale



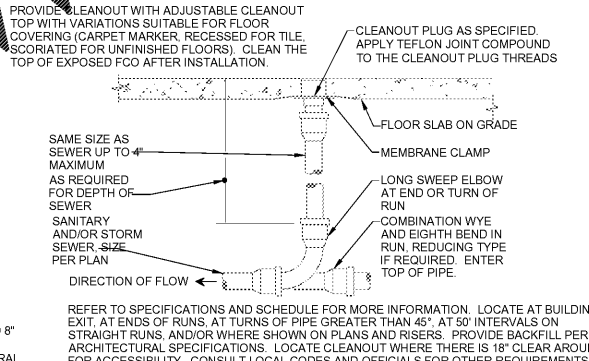
**2 SANITARY & VENT DIAGRAM**  
Scale: No Scale



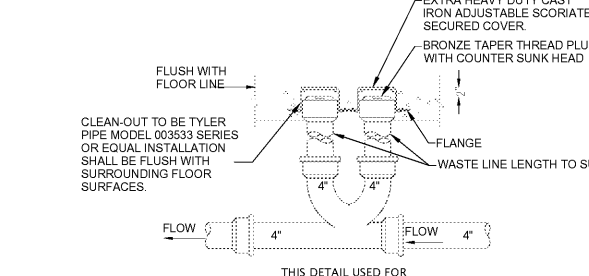
**3 TYPICAL TRAP PRIMER DETAIL**  
Scale: No Scale



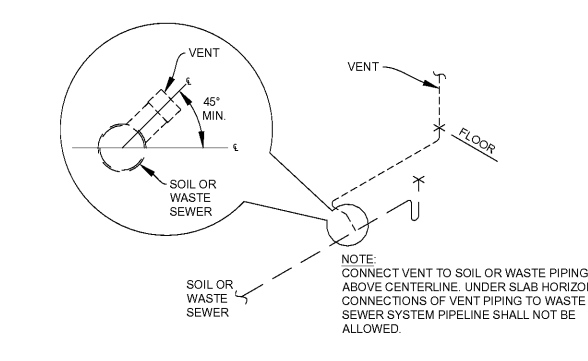
**4 MOP SINK DETAIL @ RECEIVING**  
Scale: No Scale



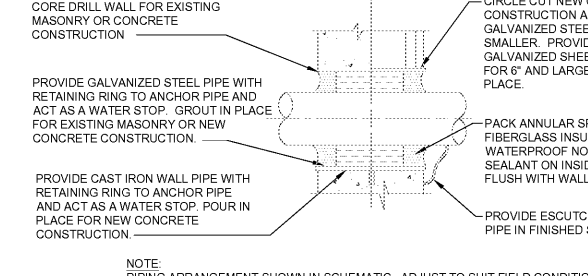
**5 FLOOR CLEAN OUT DETAIL**  
Scale: No Scale



**6 2-WAY YARD CLEAN OUT DETAIL**  
Scale: No Scale



**7 VENT PIPE INSTALLATION DETAIL**  
Scale: No Scale



**8 PIPING WALL PENETRATION DETAIL**  
Scale: No Scale

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