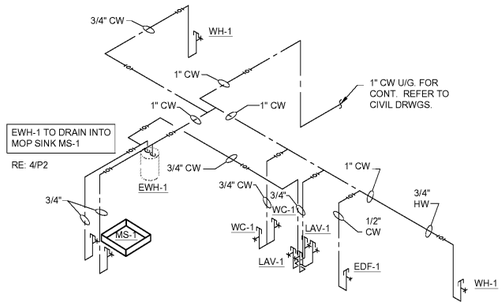
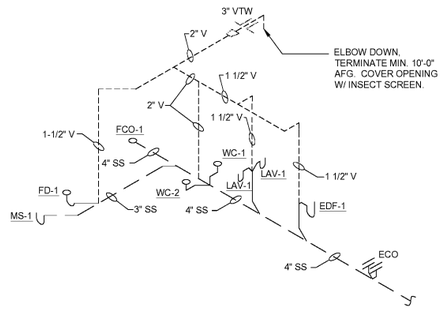



1 COLD & HOT WATER DIAGRAM

Scale: No Scale




2 SANITARY & VENT DIAGRAM

Scale: No Scale

## 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 | 2 | 2.0 | 4.00 |
| 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 |
| TOTAL FIXTURE UNITS: | | | | 19.50 |
| TOTAL GPM: | | | | 19.6 |
| EQUIPMENT MAKE-UP WATER: | | | | 0 |
| MINIMUM SERVICE SIZE: | | | | 1" |

## SANITARY SEWER CALCULATIONS

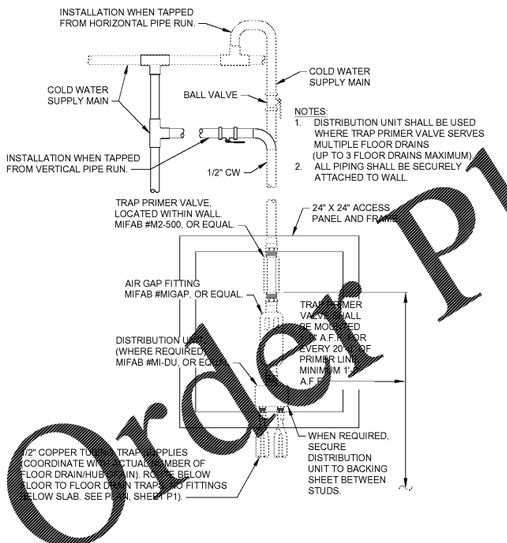
| TAG | FIXTURE TYPE | QUANTITY | FIXTURE UNIT | SUB-TOTAL FIXTURE UNITS |
|---|---|---|---|---|
| EDF-1 | ELECTRIC DRINKING FOUNTAIN | 2.0 | 0.5 | 1.00 |
| FD-1 | FLOOR DRAIN | 1.0 | 2.0 | 2.00 |
| LAV-1 | LAVATORY | 2.0 | 1.0 | 2.00 |
| MS-1 | MOP SERVICE BASIN | 1.0 | 2.0 | 2.00 |
| WC-1 | WATER CLOSET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

## PLUMBING FIXTURE PIPING SCHEDULE

| TAG | FIXTURE TYPE | LINE SIZES | | | | |
|---|---|---|---|---|---|---|
| | | WASTE | TRAP | VENT | COLD | |
| 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 |

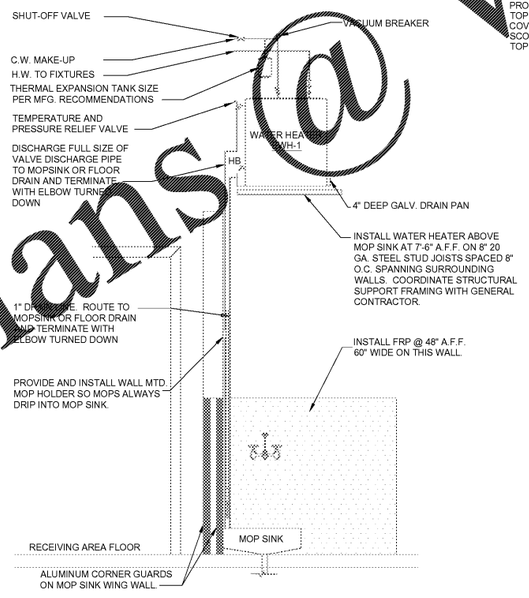
## GENERAL PLUMBING NOTES & SPECIFICATIONS

1. GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING WORKING DRAWINGS.
2. THE WORK SHALL BE EXECUTED IN STRICT CONFORMITY WITH BASE BUILDING SPECIFICATION AND WITH THE LATEST EDITION OF THE PREVAILING 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.
3. ALL PLUMBING WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE PROCEEDING WITH INSTALLATION.
4. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
5. ROUGH-IN DIMENSIONS OF TOILET FIXTURES MUST BE COORDINATED WITH GENERAL CONTRACTOR AND FIELD SUPERVISOR.
6. INSTALL BALL VALVES ON ALL BRANCH SUPPLY LINES.
7. 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.
8. ALL WORK SHALL BE PROPERLY TESTED, BALANCED AND CLEANED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
9. FOLLOW PDI STANDARDS FOR WATER HAMMER ARRESTORS.
10. ALL FIXTURES TO BE SUPPLIED & INSTALLED BY PLUMBING CONTRACTOR.
11. GENERAL CONTRACTOR SHALL COORDINATE WATER METER LOCATION AND INSTALLATION WITH LOCAL AUTHORITIES AS CIVIL DRAWINGS.
12. PROVIDE BUILDING SERVICE LINE 5'-0" FROM BUILDING LINE, OR INSIDE BUILDING FROM OUTLET SIDE 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.
13. SANITARY SEWER PIPING SHOWN IS BASED ON 0.125% SLOPE FOR 3"-6" & 0.25% SLOPE FOR 2 1/2" OR LESS FOR ALL PIPING. COORDINATE BUILDING SEWER LOCATION AND INVERT ELEVATION WITH CIVIL DRAWINGS.
14. TRAP SEAL PRIMERS ARE TO BE PROVIDED AT NO ADDITIONAL COST TO OWNER IF REQUIRED BY LOCAL BUILDING CODE OFFICIALS.
15. VTR'S SHALL BE LOCATED A MINIMUM OF 5' FROM ANY PARAPET WALL AND 10' FROM ANY RTU AIR INTAKE.
16. 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.
17. SANITARY SEWERS
    a. INSTALL SANITARY SEWERS, STACKS, VENTS, DRAINS, CLEANOUTS, ETC., AS INDICATED ON THE DRAWINGS.
    b. SEWERS TO BE GRADED A MINIMUM OF 1/4" PER FOOT FOR 3" SIZES AND UNDER AND 1/8" PER FOOT FOR 4" SIZES AND LARGER OR TO GRADES INDICATED ON DRAWINGS.
    c. CHANGES IN DIRECTION AND BRANCH CONNECTIONS SHALL BE MADE WITH APPROVED DRAINAGE FITTINGS COMPATIBLE WITH THE PIPING SYSTEM MATERIAL IN WHICH IT IS INSTALLED.
    d. ALL WASTES AND SANITARY DRAINS SHALL BE VENTED AS INDICATED ON DRAWINGS AND IN ACCORDANCE WITH CODE.
    e. VENTS ARE TO BE EXTENDED THROUGH ROOF AS INDICATED ON DRAINS AND FLASHED WITH 4 LB. LEAD WITH VENT FLASHING TURNED DOWN TWO (2) INCHES MINIMUM INSIDE PIPE.
18. BELOW GRADE SANITARY INSIDE BUILDING
    a. SERVICE WEIGHT CAST IRON PIPE ASTM A74-82 WITH ASTM C564-70 NEOPRENE COMPRESSION JOINTS OR NO-HUB WITH CLAMPS.
    b. PVC-DWV PLASTIC ASTM D1785 WITH ASTM D2665 DWV SOLVENT WELD SOCKET FITTINGS.
19. ABOVE GRADE SANITARY SEWER AND VENT
    a. NO-HUB CAST IRON PIPE CISPI 1-301-78
    b. PVC-DWV PLASTIC ASTM D1785 WITH ASTM D2665 DWV SOLVENT WELD SOCKET FITTINGS (IN CONCEALED AREAS ONLY, PVC MAY NOT BE INSTALLED IN CEILING PLENUMS).
    c. SCHEDULE 40 GALVANIZED STEEL PIPE, ASTM A53-83 WITH CAST IRON SCREWED FITTINGS ANSI B16.22 1983.
20. DOMESTIC WATER PIPING
    a. 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.
    b. 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.
    c. 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 CHIEF, AMTROL, JOSAM OR ZURN.
    d. HANGERS ON INSULATED PIPE TO BE OUTSIDE OF INSULATION, SIZED ACCORDINGLY AND WITH A SUFFICIENT SADDLE TO PROTECT INSULATION.
21. DOMESTIC WATER PIPING SHALL BE AS FOLLOWS:
    a. ABOVE GRADE - TYPE "L" HARD COPPER ASTM B88-832 WITH WROUGHT COPPER FITTINGS ASTM B16.22 1980 AND NON-LEAD OR ANTIMONY SOLDER JOINTS.
    b. BELOW GRADE - TYPE "K" SOFT COPPER WITHOUT SPLICES OR FITTINGS.
    c. FLUSH, VENT AND SANITIZE ALL WATER PIPING WITH CHLORINE AS REQUIRED PER AWWA, LOCAL BUILDING DEPARTMENT AND HEALTH DEPARTMENT CODES.
    d. 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.
    e. ALL PIPING UNDER CONCRETE FLOOR SHALL BE TYPE "K" SOFT COPPER, CONTINUOUS. NO SPLICES OR FITTINGS WILL BE ALLOWED.
    f. 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.



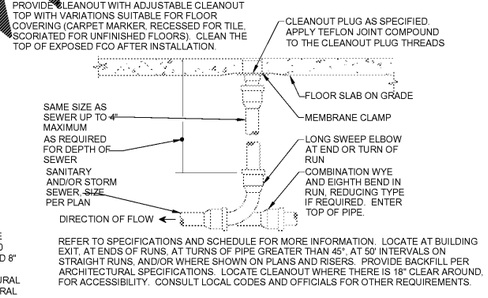

3 TYPICAL TRAP PRIMER DETAIL

Scale: No Scale



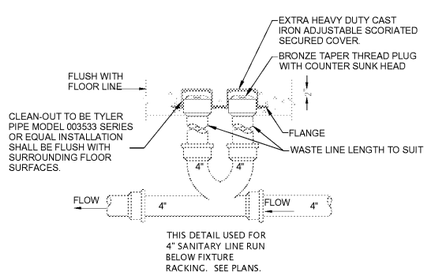

4 MOP SINK DETAIL @ RECEIVING

Scale: No Scale




5 FLOOR CLEAN OUT DETAIL

Scale: No Scale




6 2-WAY YARD CLEAN OUT DETAIL

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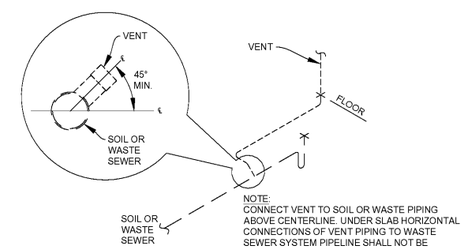


7 VENT PIPE INSTALLATION DETAIL

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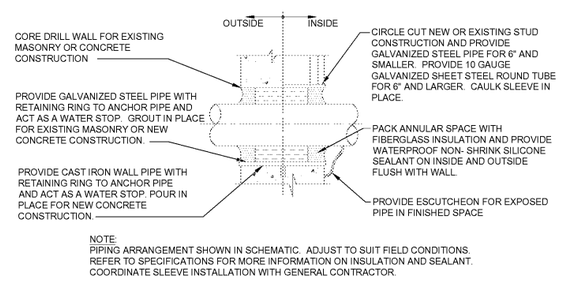


8 PIPING WALL PENETRATION DETAIL

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CONSULTANT:

SEAL: HENRY D MONTAGUE, PE 78172

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| DATE | ISSUED FOR | REV |
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| 12/01/2017 | PEMB COORDINATION | |
| 01/17/2018 | PERMIT SUBMITTAL | |

| Project Manager | Drawn |
|---|---|
| B.COLBURN | T. PATTERSON |
| **Project Leader** | **Checked** |
| B.COLBURN | H. MONTAGUE |
| **Date** | **Dept Mgr Approval** |
| 11/20/2017 | H. MONTAGUE |

**Client**

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Office: (229) 226-1177

Contact: Jeff Lazenby

**Project**

DOLLAR GENERAL

US 19 & Pine Forest Dr.
Spring Hill (Hernando County), FL

**Drawing Title**

PLUMBING DETAILS AND RISER DIAGRAMS

DO NOT SCALE DRAWING

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|---|---|
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