## PLUMBING SYMBOLS LIST

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|---|---|---|---|
| CW | COLD WATER LINE | AFF | ABOVE FINISHED FLOOR |
| A | COMPRESSED AIR LINE | AHJ | AUTHORITY HAVING JURISDICTION |
| G | GAS LINE | CONT | CONTRACTOR |
| HW | HOT WATER LINE | EWC | ELECTRIC WATER COOLER |
| CON | MECHANICAL EQUIPMENT CONDENSATE LINE | FDC | FIRE DEPARTMENT CONNECTION |
| O | OIL LINE | GCO | GROUND CLEAN OUT |
| | PLUMBING VENT LINE | L | LAVATORY |
| OW | UNDERGROUND OIL WASTE LINE | MS | MOP SINK |
| SAN | UNDERGROUND SANITARY DRAIN LINE | NTS | NOT TO SCALE |
| FCO | FCO-FLOOR CLEAN OUT | TP | TRAP PRIMER |
| FD | FD-FLOOR DRAIN | UNO | UNLESS NOTED OTHERWISE |
| HB | HOSE BIBB | UR | URINAL |
| WCO | WALL CLEAN OUT | VIF | VERIFY IN FIELD |
| | SHUT-OFF VALVE | VTR | VENT THROUGH ROOF |
| | | WC | WATER CLOSET |

## CIVIL ENGINEERING DESIGN COORDINATION NOTICE

NOTICE TO ALL PARTIES HAVING AN INTEREST IN THIS CONSTRUCTION PROJECT

1.) CIVIL ENGINEERING FOR THIS PROJECT IS BEING PERFORMED BY OTHERS.

2.) CONTRACTORS RELYING ON DOCUMENTS NOT COORDINATED WITH THE CIVIL ENGINEERING WORK SHALL DO SO AT THEIR OWN RISK.

3.) COORDINATION WITH THE CIVIL ENGINEERING DOCUMENTS HAS BEEN COMPLETED ONLY AS SHOWN BELOW.

CIVIL ENGINEERING CONSULTANT IS: CEI ENGINEERING ASSOCIATES, INC.
BENTONVILLE, AR

| CIVIL SHT. DWG. NO. | CIVIL SHEET DWG. TITLE | REV. NO. | REV. DATE | REV. NO. | REV. DATE | REV. NO. | REV. DATE |
|---|---|---|---|---|---|---|---|
| C5 | UTILITY PLAN | | | | | | |

| COORDINATION CHECKED BY | INITIAL | DATE | INITIAL | DATE | INITIAL | DATE |
|---|---|---|---|---|---|---|
| DISCIPLINE: | RMC | 08/04/17 | | | | |

**NOTE:**
**CONTRACTOR SHALL REFER TO SHEET A3 - ROOF PLAN FOR ACCEPTABLE APPROXIMATE LOCATIONS OF ROOF PENETRATIONS.**

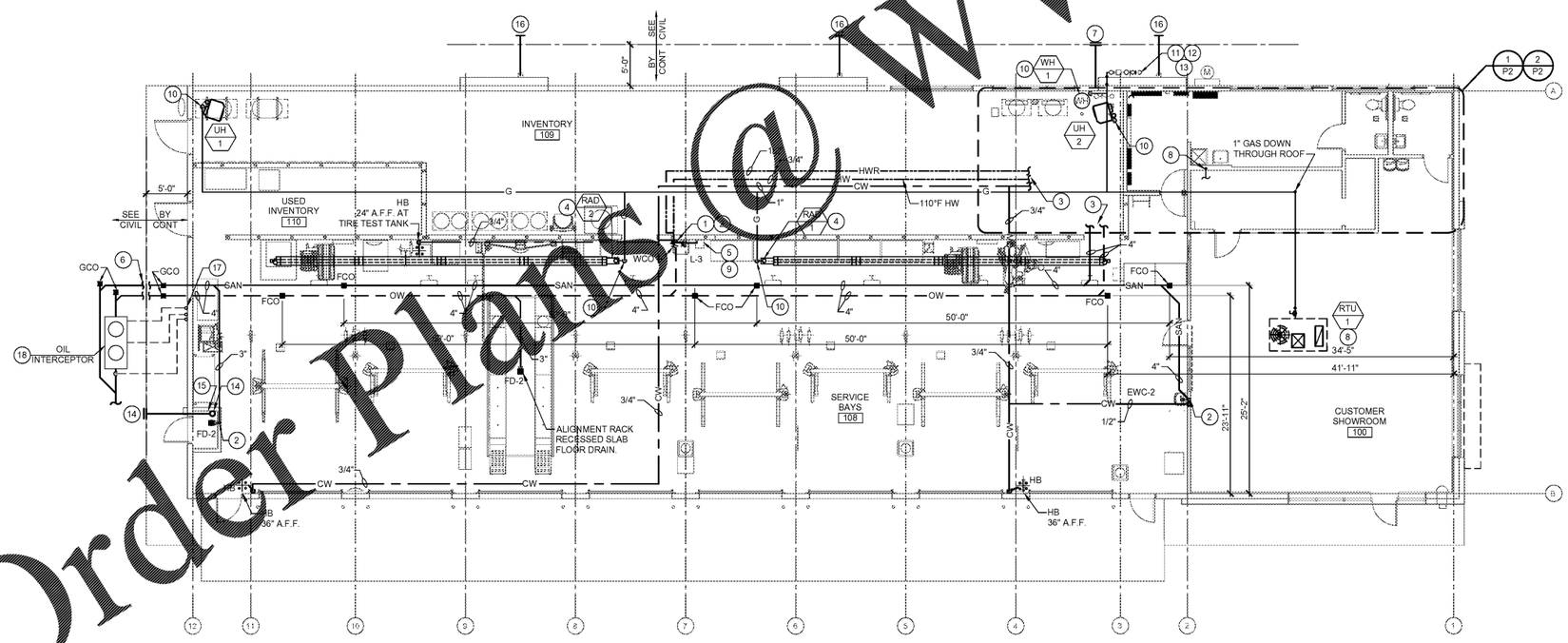
NOTE:
ROUTE ALL WATER AND GAS PIPING TIGHT TO CEILING AND WALLS WHERE POSSIBLE. NO PIPING SHALL BE ROUTED IN UNCONDITIONED SPACES. ALL EXPOSED PIPING SHALL BE INSULATED AND LABELED.

NOTE:
SANITARY AND DOMESTIC WATER PIPE ROUTING ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT ROUTING WITH FIELD CONDITIONS. REFER TO PIPING DIAGRAMS ON SHEET P6.

| SLOPE OF HORIZONTAL DRAINAGE PIPE | |
|---|---|
| SIZE | MINIMUM SLOPE |
| 2-1/2" OR LESS | 1/4 / ft OR 2 |
| 3" TO 6" | 1/8 / ft OR 1 |

NOTE:
SCHEDULE BASED ON VIRGINIA PLUMBING CODE, SECTION 704 - TABLE 704.1.

**PLUMBING INVERTS:**
STARTING POINT: 0' - FINISHED FLOOR
ENDING POINT: 5'-0" OUTSIDE BUILDING
SANITARY: 43.8"
OIL: 40.0"




1 / P1 PLUMBING PLAN
SCALE: 1/8" = 1'-0"

## KEYED PLAN NOTES - THIS SHEET

1. COLD HOT WATER PIPING EXPOSED ON SERVICE BAY WALL. ROUTE PIPING AS REQUIRED TO SINK AND EYEWASH BELOW. ALL PIPING SHALL BE INSULATED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. 2" VENT UP TO 3" VENT THRU ROOF.
3. SEE ENLARGED RESTROOMS SHEET P2 FOR CONTINUATION.
4. INFRA-RED HEATER BURNER CONTROL BOX. REFER TO DETAIL ON SHEET M4.
5. EYEWASH PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. PROVIDE 3/4" INSULATED WATER LINE TO FIXTURE. MOUNT EYEWASH AT 41" A.F.F. TO THE CENTERLINE OF THE SPOUT. REFER TO FIXTURE PLAN FOR LOCATION. REFERENCE DETAIL 5 ON SHEET P5.
6. SANITARY LINE. EXTEND 5'-0" OUT FROM BUILDING. SEE CIVIL PLANS FOR CONTINUATION.
7. DOMESTIC WATER SERVICE TO MAIN. EXTEND 5'-0" OUT FROM BUILDING. SEE CIVIL PLANS FOR CONTINUATION.
8. ROUTE CONDENSATE LINE FROM SIZE OF EQUIPMENT CONNECTION TO MOP SINK OR NEAREST APPROVED DRAINAGE POINT AT 1/4" PER FOOT SLOPE HORIZONTALLY AND TIGHT TO WALL VERTICALLY. PROVIDE CODE REQUIRED AIR GAP. SEE ENLARGED PLANS ON SHEET P2 FOR ROUTING.
9. EYEWASH DRAIN PIPE SHALL BE CONNECTED FULL SIZE OF FIXTURE TO SERVICE SINK DRAIN TAILPIECE FITTING. PROVIDE P-TRAP. REFERENCE DETAIL 5 ON SHEET P5.
10. GAS DROP TO GAS FIRED EQUIPMENT. PROVIDE GAS COCK, DIRT LEG, AND FLEXIBLE CONNECTOR (WHERE APPROVED). ALL GAS PIPING AND ACCESSORIES TO BE KEPT BETWEEN UNIT AND NEAREST WALL AND SHALL NOT EXTEND BELOW THE BOTTOM OF THE UNIT.
11. GAS METER BY UTILITY. CONTRACTOR SHALL VERIFY THAT NEW GAS SERVICE IS REGULATED FOR 7 IN. W.C. AND THE GAS METER HAS A MINIMUM CAPACITY OF 484 CFH. ANY DISCREPANCIES IN THIS INFORMATION SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND/OR PROJECT ENGINEER.
12. ROUTE GAS PIPE TIGHT TO WALL AND AS REQUIRED TO GAS METER. COORDINATE LOCATION OF ROUGH IN AND OR INSTALLATION OF GAS PIPE. GAS PIPING IS SIZED BASED ON 7 IN. W.C PRESSURE AND A 0.5 W.C. PRESSURE DROP PER THE 2012 VIRGINIA FUEL GAS CODE, TABLE 402.02.
13. CONTRACTOR SHALL PROVIDE GAS PRESSURE REGULATOR ON CUSTOMER SIDE OF METER TO SUPPLY BUILDING EQUIPMENT WITH 7" W.C. PRESSURE. REFER TO PRESSURE REGULATOR SCHEDULE ON SHEET P6 FOR SIZING REQUIREMENTS. REFER TO REGULATOR MANUFACTURER'S INSTALLATION INSTRUCTION.
14. FIRE RISER INLET. REFER TO SPECIFICATIONS, FIRE PROTECTION AND CIVIL DRAWINGS FOR MORE INFORMATION.
15. FIRE RISER FLOOR AREA. REFER TO SPECIFICATIONS AND FIRE PROTECTION DRAWINGS FOR MORE INFORMATION.
16. CONNECT 4" STORM PIPE TO DOWNSPOUT (DS) AND EXTEND TO UNDERGROUND STORM PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR DOWNSPOUT SIZE.
17. 2" UNDERGROUND VENTS UP IN WALL. EXTEND UP 6" ABOVE FIXTURE RIM LEVEL. COMBINE VENTS INTO (1) 3" VENT AND ROUTE UP IN WALL TO ROOF. PROVIDE 3" VENT THROUGH ROOF.
18. MINIMUM TWO COMPARTMENT OIL INTERCEPTOR. MINIMUM BASIN SIZE: 350 GALLON STATIC HOLDING CAPACITY. BASINS SHALL BE CONSTRUCTED OF PRECAST CONCRETE WITH BOLTED AND GASKETED TRAFFIC RATED CAST IRON COVERS. EXTEND 2" VENT LINE FROM EACH COMPARTMENT OR PER MANUFACTURER'S INSTRUCTIONS. INSURE THAT ALL UNDERGROUND PIPING AND OIL INTERCEPTOR PRESERVES THE ADJACENT BUILDING'S FOOTING. MAINTAIN A 6' MINIMUM DISTANCE FROM ADJACENT BUILDING'S FOOTING TO PRESERVE STRUCTURAL INTEGRITY. OIL INTERCEPTOR AND OIL INTERCEPTOR INSTALLATION SHALL COMPLY WITH 2012 VIRGINIA PLUMBING CODE AND ALL LOCAL AMENDMENTS.

## PLUMBING GENERAL NOTES

1. SANITARY AND DOMESTIC WATER PIPE ROUTING ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT ROUTING OF PIPING WITH FIELD CONDITIONS.
2. PROVIDE SHUTOFF VALVES IN EACH BRANCH USING BALL VALVES FOR WATER SUPPLY.
3. ROUTE ALL PIPING TIGHT TO CEILING AND WALLS WHERE POSSIBLE. ALL PIPING SHALL BE ABOVE GROUND ONCE ENTERING BUILDING. NO PIPING SHALL BE ROUTED IN UNCONDITIONED SPACES. ALL PIPING SHALL BE INSULATED.
4. MAKE FINAL CONNECTIONS TO ALL EQUIPMENT FURNISHED BY OTHERS PER MANUFACTURER INSTALLATION INSTRUCTIONS.
5. ALL EQUIPMENT, MATERIAL AND LABOR NECESSARY FOR COMPLETION OF PLUMBING SYSTEMS SHOWN ON DRAWINGS OR REFERRED TO IN SPECIFICATIONS TO BE FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE.
6. WHERE DRAWINGS OR SPECIFICATIONS EXCEED GOVERNING CODE REQUIREMENTS, DESIGN SHALL GOVERN. INSTALL NO WORK CONTRARY TO OR BELOW MINIMUM LEGAL STANDARDS, WHETHER DRAWINGS AND SPECIFICATION FULLY COMPLY OR NOT.
7. ALL PLUMBING FIXTURES, EXCEPT RESTROOM FIXTURES, SHALL DISCHARGE INTO OIL WASTE LINES. COORDINATE WITH PLUMBING PLAN.
8. VERIFY FINAL LOCATIONS OF WATER SUPPLIES WITH FIXTURE PLAN AND CIVIL DRAWINGS
9. VERIFY THAT ALL PLUMBING PIPING DOES NOT AFFECT ALIGNMENT RACK PADS. VERIFY LOCATION OF ALL PLUMBING PIPING WITH ALIGNMENT RACK MANUFACTURER PRIOR TO INSTALLATION. COORDINATE ALL PLUMBING PIPING AND ALIGNMENT RACK INSTALLATION WITH ALL DISCIPLINES PRIOR TO INSTALLATION.
10. REFERENCE FIXTURE PLAN SHEET F1 FOR EQUIPMENT QUANTITIES AND LOCATIONS.


Randall A. Nelson, P. E.
Chief Engineer of Record
14800 West 95th Street
Lenexa, Kansas 66215
Phone 913 322 5150


Firestone COMPLETE AUTO CARE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08/08/17

ISSUE BLOCK

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| PROPERTY NO.: | 167739 |
| 6 DIGIT NO.: | 785533 |
| 4 DIGIT NO.: | 6868 |
| AOR PROJECT NUMBER: | 1655B14 |
| TO PERMIT: DATE: | 08/10/17 |
| TO BID: DATE: | TBD |
| DRAWN BY: | ZS,MJ,RC |
| CHECKED BY: | CF,AR |

SHEET TITLE:
PLUMBING PLAN AND NOTES

SHEET NUMBER:
**P1**


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