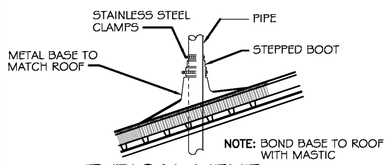
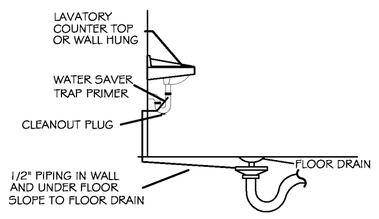


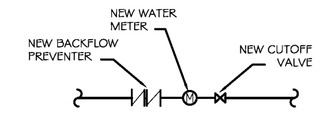
TYPICAL VENT THRU ROOF DETAIL

N.T.S.



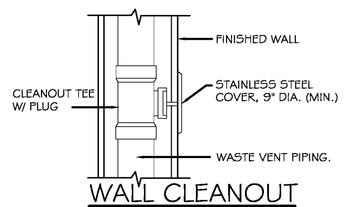
FLOOR DRAIN DETAIL

N.T.S.



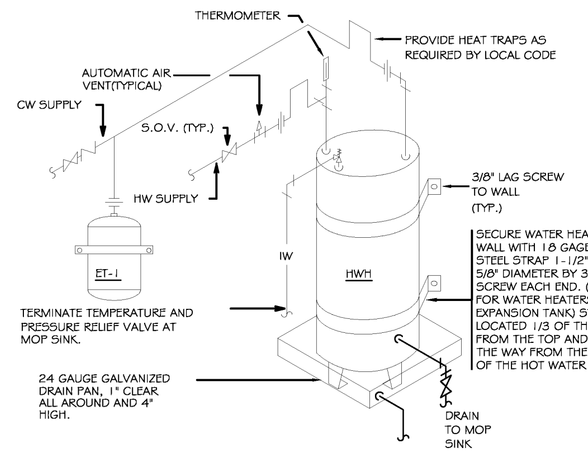
TYPICAL WATER CONNECTION DETAIL

N.T.S.



WALL CLEANOUT DETAIL

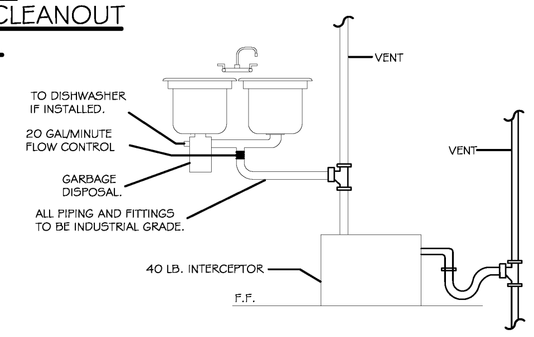
N.T.S.



1. A WATERTIGHT PAN WITH 1" DRAIN SHALL BE PROVIDED UNDER WATER HEATER.

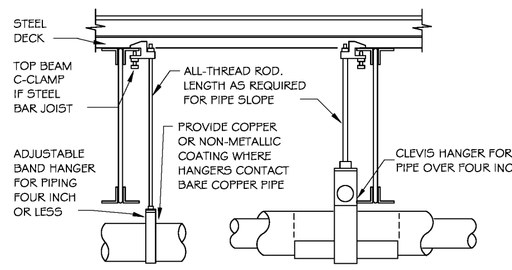
ELECTRIC WATER HEATER DETAIL

N.T.S.



TWO COMP SINK WITH INTERCEPTOR

N.T.S.



DO NOT HANG PIPE LARGER THAN 3" FROM BOTTOM OF JOISTS.

PROVIDE GALVANIZED STEEL SADDLE FOR ALL INSULATED PIPE LARGER THAN 3/4". VERIFY INSULATION THICKNESS WHEN SIZING HANGERS.

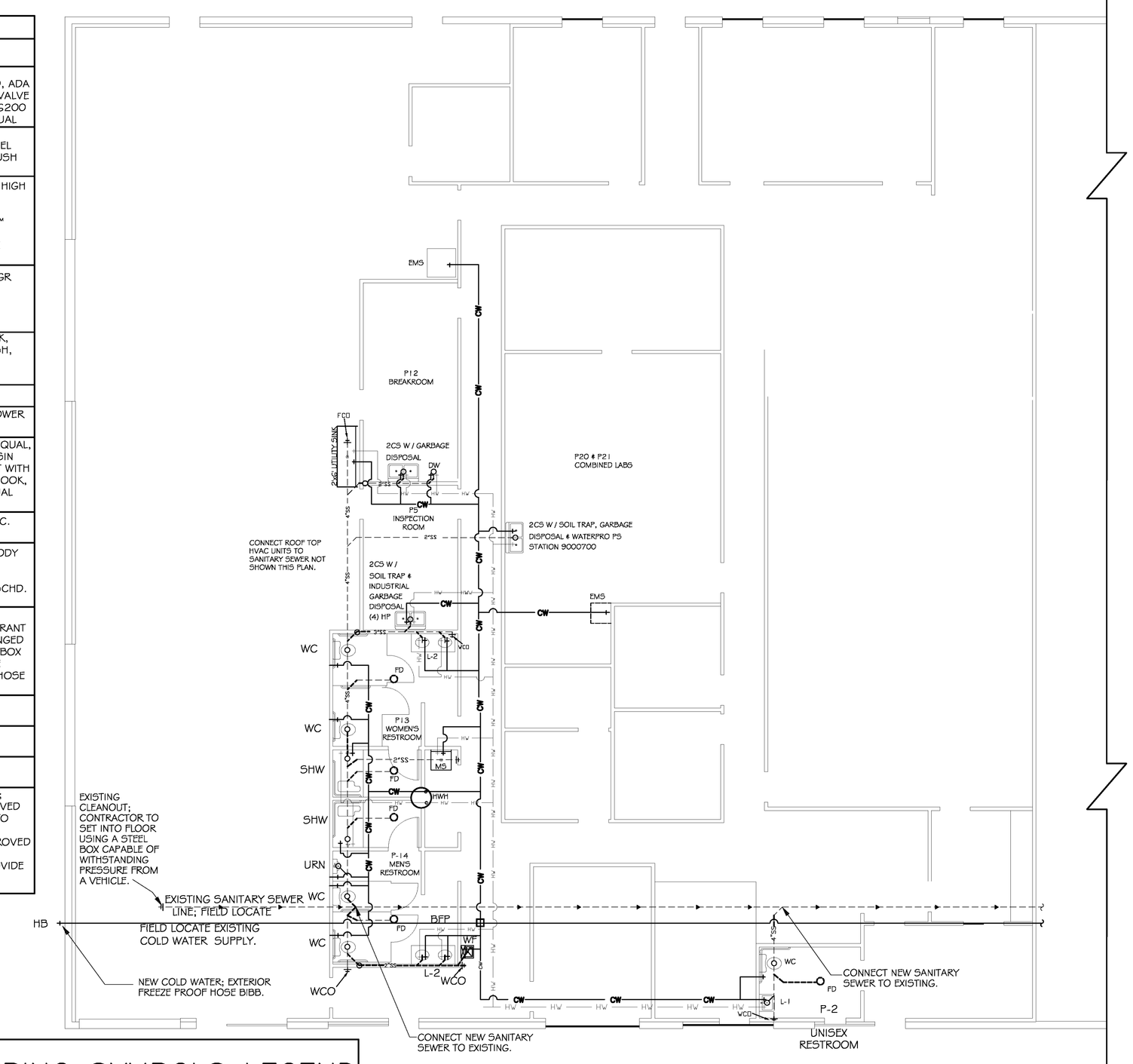
PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4"=12' 3"=11' 2-1/2"=10' 2"=9' 1-1/2"=8' 1-1/4"=7' 1"=6' 3/4"=6' 1/2"=5'. CAST IRON: 10' AND ONE NEAR ALL JOINTS. STEEL: 4"=14' 3"=12' 2-1/2"=11' 2"=10' 1-1/2"=9' 1"=7' 3/4"=6' 1/2"=5'. LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED.LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. PROVIDE SEISMIC BRACING IT'AS REQUIRED BY LOCAL AUTHORITIES. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE. REFER TO CODES FOR FURTHER INFORMATION.

PIPE HANGERS

N.T.S.

FIXTURE SCHEDULE						
FIXTURE	SYMBOL	WASTE	VENT	COLD WATER	HOT WATER	DESCRIPTION
WATER CLOSET	WC	4"	4"	1"	----	"ZURN" Z5665 HET SERIES ELONGATED FLOOR MOUNTED, ADA HEIGHT ECOVANTAGE FLUSH VALVE TOILET SYSTEM "ZURN" ZEMS6200 METROFLUSH MODEL, OR EQUAL
URINAL	URN	2"	1½"	½"	½"	"ZURN" Z5798 THE PINT, ADA HEIGHT ECOVANTAGE EV MODEL "ZURN" Z56003EV METROFLUSH MODEL, OR EQUAL
HANDICAP LAVATORY	L-1	1½"	1½"	½"	½"	"ZURN" Z5360-PED 20" X 18" HIGH BACK WALL HUNG LAVATORY W/ HALF PEDESTAL "BRADLEY" 553-315 AERADA™ 1200 SERIES CS FAUCET ADA COMPLIANT HANDS-FREE ACTIVATION
LAVATORY	L-2	1½"	1½"	½"	½"	"JUST MFR" SL-ADA-1921-A-GR 14"x18"x6.5" BOWL "JUST MFR" JSGN-G-AC SENSOR OPERATED FAUCET, GOOSENECK
2 COMP SINK	2CS	2"	1½"	½"	½"	STAINLESS STEEL DOUBLE SINK, BASINS 12" DEEP, BACKSPLASH, GOOSENECK FAUCET WITH WRISTBLADE.
DISHWASHER	DW	2"	1½"	½"	½"	RESIDENTIAL GRADE.
ADA SHOWER	SHW	2"	1½"	½"	½"	ADA ROLL-IN ACCESSIBLE SHOWER STALL
MOP SINK	MS	2"	1½"	½"	½"	FIAT MODEL #MSB 2424 OR EQUAL, 24"X24"X10" FIBERGLASS BASIN WITH MODEL #830-AA FAUCET WITH VACUUM BREAKER AND PAIL HOOK, AND MODEL #889-CC OR EQUAL MOP HANGER.
ELECTRIC WATERHEATER	HW1	---	---	¾"	¾"	"RHEEM" ELDS40 40 GAL. ELEC. WATER HEATER
FLOOR DRAIN AT RESTROOM	FD	3"	2"	----	----	"SMITH" 2010-A-P050 C.I. BODY WITH ROUND NICKEL BRONZE STRAINER AND PRIMER TRAP INSTALL WITH RIM FLUSH W/ SCHD. FLOOR
HOSE BIB	HB	---	---	½"	----	"JOSAM" No.71950-80 CAST BRONZE, BOX TYPE, WALL HYDRANT 3/4" SIZE, POLISHED FACE, HINGED LOCKING COVER, EXTRA DEEP BOX W/ INTEGRAL NON-REMOVABLE VACUUM BREAKER WITH 3/4" HOSE PIPE THREADED OUTLET
WATER FOUNTAIN	WF	2"	1½"	½"	----	----
WALL CLEAN OUT	WCO	----	----	----	----	----
FLOOR CLEAN OUT	FCO	----	----	----	----	----
BACKFLOW PREVENTER	BFP	----	----	1"	----	EQUAL TO WATTS NO. 909QT; CONFIRM MODEL # IS APPROVED BY LOCAL AUTHORITY PRIOR TO INSTALLATION. ASSE 1013 VERTICAL INSTALLATION APPROVED REDUCED PRESSURE ZONE BACK-FLOW PREVENTER. PROVIDE WITH STRAINER.

NOTES:
1. INSULATE PIPING FOR HANDICAP FIXTURE.
2. PROVIDE CHAIR CARRIER FOR WALL HUNG FIXTURE.
3. INSTALL CONTINUOUS DRIP VALVE ON ALL FLOOR DRAINS.

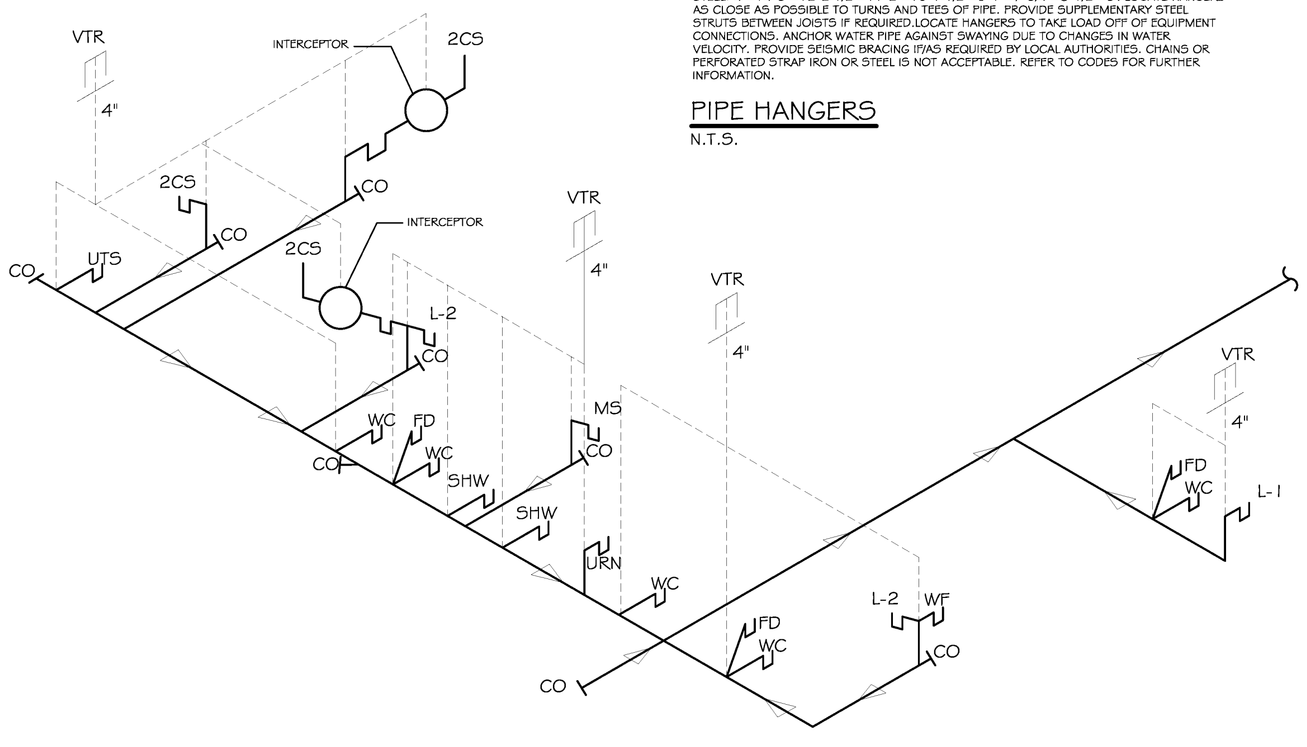


WATER & SANITARY SEWER PLAN

SCALE: 1/8" = 1'-0"

PLUMBING SYMBOLS LEGEND

- SANITARY SEWER
- HW — HOT WATER
- CW—CW—CW—CW—CW—CW — COLD WATER



PLUMBING RISER DIAGRAM

N.T.S.

GENERAL NOTES:

A. PLUMBING CONTRACTOR IS TO FURNISH AND INSTALL ALL FIXTURES COMPLETE AS LISTED IN "PLUMBING FIXTURE SCHEDULE". PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE OPERATING SYSTEM. THE SYSTEM SHALL INCLUDE HOT AND COLD WATER PIPING, SEWER AND VENT PIPING, INSULATION, WATER HEATER, HANGERS, VALVES, SUPPORTS WITHOUT ANY RESTRICTIONS TO VOLUME.
B. ALL HANDICAP PLUMBING FIXTURES SHALL BE INSTALLED TO COMPLY WITH STATE AND LOCAL CODES. P.C. SHALL FURNISH AND INSTALL CODE COMPLIANT TRAP WRAP ON ALL EXPOSED WATER & WASTE LINES FOR ALL HANDICAP ACCESSIBLE LAVATORIES.
C. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS, ELEVATIONS AND SIZES PRIOR TO COMMENCING ANY WORK. PLUMBER TO VERIFY SLAB CONDITIONS (POST TENSION OR CONVENTIONAL) BEFORE COMMENCING WORK. WHERE A RENOVATION IS TO OCCUR; THE PLUMBING CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED, PRIOR TO SUBMITTING BID.
D. PLUMBING CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO THE GENERAL CONTRACTOR PRIOR TO FINAL PAYMENT
E. ALL WORK SHALL BE INSTALLED TO COMPLY WITH LOCAL AND STATE PLUMBING CODE REQUIREMENTS, AND PER LOCAL HEALTH DEPARTMENT REQUIREMENTS.
F. HOT WATER CAPACITY SHALL BE A MINIMUM OF 40 GAL. WITH QUICK RECOVERY. THE PRESSURE RELIEF MUST BE CONNECTED EITHER INDIRECTLY TO THE SANITARY SEWER OR DIRECTLY OUTSIDE.
G. TEST ALL PIPING AT REQUIRED PRESSURE.
H. ALL PLUMBING SHALL BE CLOSELY COORDINATED WITH STRUCTURAL SYSTEM, MECHANICAL SYSTEM AND ELECTRICAL TO INSURE NO TRADES WILL CONFLICT WITH EACH OTHER.
I. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DOORS, WINDOWS, WALLS, FIXTURES, ETC.
J. ALL WATER MAINS AND PIPING NOT SHOWN FOR CLARITY, ALL LOCATIONS SHALL BE FIELD VERIFIED.
K. ALL ELECTRICAL, MECHANICAL & PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)

WASTE AND VENT PIPING:

A. PLUMBING CONTRACTOR SHALL USE SCHEDULE 40 POLYVINYL CHLORIDE PIPE FOR ALL SOIL, WASTE AND VENT PIPING WHERE PERMITTED BY LOCAL CODES. WHERE PVC PIPING IS NOT PERMITTED BY LOCAL CODES, USE STANDARD WEIGHT CAST IRON PIPING. ALL PIPING ABOVE GRADE MAY HAVE HUBLESS FITTINGS. PLASTIC PIPING SHALL NOT BE USED IN RETURN AIR PLENUM. COORDINATE THIS REQUIREMENT WITH HVAC CONTRACTOR PRIOR TO INSTALLATION.
B. CONTRACTOR SHALL FIELD VERIFY INVERT ELEVATIONS OF ALL NEW AND EXISTING SANITARY SEWERS PRIOR TO ROUGH-IN.
C. NEW SEWERAGE LINES 3-INCH AND SMALLER SHALL BE SLOPED 1/4" PER FOOT AND LINES 4-INCH AND LARGER SHALL BE SLOPED 1/8" PER FOOT.
D. ELEVATION OF ALL FLOOR DRAINS SHALL BE HELD 1/2" BELOW FINISH FLOOR TILE.
E. ALL CLEANOUTS SHALL BE INSTALLED FLUSH WITH FINISHED GRADE/FINISHED FLOORS.
F. HOLD ALL PLUMBING VENTS A MINIMUM OF 15'-0" FROM OUTSIDE FRESH AIR INTAKES.
G. WHERE HVAC UNITS ARE LOCATED IN MECHANICAL CLOSETS, P.C. SHALL COORDINATE PLACEMENT OF DRAINS WITH M.C. & HVAC EQUIPMENT PRIOR TO ROUGH-IN OF UNDERGROUND PLUMBING.

WATER PIPING:

A. ALL WATER PIPING BELOW GRADE SHALL BE TYPE "L" SOFT TEMPERED COPPER AND ALL WATER PIPING ABOVE GRADE SHALL BE TYPE "L" HARD TEMPERED COPPER.
B. INSTALL 1" FOAM RUBBER INSULATION ON ALL HOT AND COLD WATER PIPING BELOW AND ABOVE GRADE. ALL JOINTS IN INSULATION ARE TO BE TAPED.
C. ALL DOMESTIC WATER PIPING SHALL BE DISINFECTED PRIOR TO USE BY BUILDING OCCUPANT. PLUMBING CONTRACTOR SHALL DISINFECT PER REQUIREMENTS OF LOCAL HEALTH DEPT., STATE/LOCAL PLUMBING CODE.
D. ALL PLUMBING HOSE BIBBS OR VALVES WITH THREADED CONNECTIONS SHALL BE PROVIDED WITH VACUUM BREAKERS AND APPROVED MEANS OF BACK-FLOW PREVENTION AS REQUIRED BY STATE AND LOCAL CODES.
E. PROVIDE SHUT-OFF VALVES ON ALL EQUIPMENT AND STOP COCKS IN HOT AND COLD WATER PIPING FIXTURES.
F. PLUMBING CONTRACTOR SHALL PROVIDE DIELICTRIC UNIONS AT ALL PIPING CONNECTIONS WHERE DISSIMILAR PIPING IS JOINED.
G. ALL HOT AND COLD WATER, WASTE, AND VENT PIPING TO BE SUPPORTED PER LOCAL PLUMBING CODE.

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PLUMBING PLAN

REV:

SCALE: AS NOTED

JOB#:

DATE: 1/15/2012

SHEET

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OF