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PLUMBING NOTES AND SPECIFICATIONS

GENERAL

1. CONTRACTOR SHALL PERFORM ALL WORK SO AS TO CONFORM TO LOCAL, STATE AND NATIONAL CODES AND THE REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.
2. CONTRACTOR SHALL EXAMINE SITE TO DETERMINE THE EXACT CONDITIONS EFFECTING THE PLUMBING WORK.
3. DRAWINGS INDICATE THE GENERAL SCHEME OF THE INSTALLATION AND ARE DIAGRAMMATIC IN SCOPE. THE ENGINEER RESERVES THE RIGHT TO CHANGE THE LOCATION OF PIPING, FIXTURES, ETC. TO A REASONABLE EXTENT AS THE BUILDING CONDITIONS MAY DICTATE, PRIOR TO THEIR INSTALLATION, WITHOUT EXTRA COST TO THE OWNER. THE EXACT LOCATION AND ARRANGEMENT OF ALL EQUIPMENT AND PARTS SHALL BE DETERMINED AS THE WORK PROGRESSES.
4. DETAILS OF CONSTRUCTION AND OF WORKMANSHIP WHERE NOT SPECIFICALLY DESCRIBED HEREIN OR INDICATED ON THE DRAWINGS SHALL BE SUBJECT TO THE ENGINEER'S APPROVALIT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE COMPLETE SYSTEMS, LEFT IN GOOD WORKING ORDER, READY FOR OPERATION.
5. SCRAP AND DEBRIS, EXCEPT AS OTHERWISE SPECIFIED, SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THIS CONTRACTOR.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING AND START-UP OF THE SYSTEM.
7. ALL WORK SHALL BE DONE WITH A MINIMUM OF DUST AND DIRT. PROVIDE SUFFICIENT FIREPROOF TARPAULINS AND COVER ALL EQUIPMENT IN WORK AREA WITH SAME DURING INSTALLATION.
8. CONTRACTOR SHALL FURNISH SHOP DRAWINGS AND EQUIPMENT CUTS TO ARCHITECT FOR APPROVAL (MINIMUM FIVE (5) COPIES).
10. CONTRACTOR SHALL FILE, SECURE AND PAY FOR ALL NECESSARY APPROVALS, PERMITS AND INSPECTIONS.
11. ALL WORK SHALL BE GUARANTEED TO BE FREE FROM DEFECT FOR ONE YEAR AFTER ACCEPTANCE OF THE INSTALLATION BY OWNER.
12. ALL WORK SHALL BE IN ACCORDANCE WITH THE NEW JERSEY UNIFORM CONSTRUCTION CODE AND THE NATIONAL STANDARD PLUMBING CODE.
13. THE PLUMBING SYSTEM SHALL BE TESTED IN ACCORDANCE WITH THE NATIONAL STANDARD PLUMBING CODE. CONTRACTOR TO COORDINATE TESTS WITH LOCAL OFFICIALS.
14. WHERE DEVICES REQUIRING ACCESS (VALVES, CLEANOUTS, ETC.) WOULD OTHERWISE BE RENDERED INACCESSIBLE BY BUILDING CONSTRUCTION, PROVIDE FRAMED ACCESS DOOR. ACCESS DOORS FINISHES SHALL BE COORDINATED WITH ARCHITECT. IN GENERAL, ACCESS DOORS SHALL BE PRIMED, PAINTABLE, STEEL WHEN LOCATED IN DRYWALL CONSTRUCTION. ACCESS DOORS IN TOILET ROOM TILE WAINSCOT SHALL BE STAINLESS STEEL. ACCESS DOORS IN EXTERIOR WALLS SHALL BE PROVIDED WITH INSULATED DOORS. ACCESS DOORS IN COLUMN ENCLOSURES OR FIRE RESISTIVE WALLS SHALL BE FIRE RATED IN ACCORDANCE WITH BOCA ARTICLE 401.

SCOPE OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING AND INSTALLATION OF ALL FIXTURES, MATERIALS, PIPING AND COMPONENTS AS REQUIRED FOR A COMPLETE AND OPERATIONALLY FUNCTIONAL SYSTEM. SCOPE OF WORK SHALL INCLUDE BUT NOT BE LIMITED TO:

7. INSTALLATION OF ABOVE GROUND SANITARY DRAIN WASTE AND VENT PIPING.
8. INSTALLATION OF CLEANOUTS IN SANITARY DRAINAGE SYSTEMS.
9. INSTALLATION OF FLOOR DRAINS AS INDICATED ON THE DRAWINGS.
10. INSTALLATION OF DOMESTIC HOT AND COLD WATER PIPING INCLUDING ANTI-WATER HAMMER SHOCK ABSORBERS, VALVES, STOP VALVES, FLEX-SUPPLIES, DIELECTRIC UNIONS BETWEEN DISSIMILAR PIPING MATERIALS, ETC.
11. INSTALLATION OF DOMESTIC WATER HEATERS INCLUDING ASME APPROVED, ASA RATED TEMPERATURE AND PRESSURE RELIEF VALVES, GATE VALVES, UNIONS, RECIRCULATION PUMPS, CHECK VALVES, CONTROLS, ETC.
12. INSTALLATION OF BACKFLOW PREVENTORS, PRESSURE REDUCING AND RELIEF VALVES AS INDICATED ON THE DRAWINGS.
14. INSTALLATION OF FIXTURES INCLUDING WALL HANGERS, SUPPORTS, STOP VALVES, FLEX-SUPPLIES, DRAINS, TRAPS, STRAINERS, FAUCETS, SOAP DISPENSERS, ESCUTCHEONS, SEATS AND OTHER DEVICES AS SHOWN ON THE DRAWINGS AND INDICATED IN THE SCHEDULE OF PLUMBING FIXTURES.
15. TESTING OF THE PLUMBING SYSTEM INCLUDING AIR OR WATER TEST OF DRAINAGE SYSTEM ROUGHINGS, SMOKE TEST OF FINISHED DRAINAGE SYSTEM AND PRESSURE TEST OF DOMESTIC WATER SYSTEMS.
16. DISINFECTION OF THE DOMESTIC WATER SUPPLY SYSTEM.
18. PIPING SUPPORT INCLUDING SEISMIC RESTRAINT SHAY BRACING IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE.
19. INSTALLATION OF FIBERGLASS INSULATION, FITTING COVERS AND JACKETS ON ALL HOT AND COLD DOMESTIC WATER PIPING.
20. CUTTING AND PATCHING AS REQUIRED.
21. PERMITS, INSPECTIONS, APPROVALS AND CERTIFICATES, INCLUDING FEES.
22. GUARANTEE.

SANITARY DRAINAGE

1. ABOVE GROUND SANITARY WASTE AND VENT DRAIN PIPING SHALL BE CAST IRON, NO-HUB TYPE.
2. VERTICAL, NON-COMBUSTIBLE OCCUPYING AN AREA OF MORE THAN ONE SQUARE FOOT, PIPING ARRANGED IN GROUPS OF TWO OR MORE LINES, WHICH PENETRATE TWO OR MORE FLOORS, SHALL BE ENCLOSED IN SHAFT HAVING A FIRE RESISTANCE RATING IN ACCORDANCE WITH BOCA ARTICLE 401 (MINIMUM 1 HOUR).
4. CLEANOUTS FOR SANITARY DRAINAGE SYSTEMS SHALL BE LOCATED IN ACCORDANCE WITH ARTICLE 34 OF THE NATIONAL STANDARD PLUMBING CODE.
5. FLOORS DRAINS SHALL BE JAY R. SMITH MODEL NO. 2005, ROUND TOP WITH STAINLESS STEEL STRAINER. PROVIDE DEEP SEAL TRAP.
6. ALL VENT PENETRATIONS THROUGH BUILDING ROOF SHALL BE MADE WATER-TIGHT BY THE USE OF PROPER FLASHING MATERIALS. SUBMIT FLASHING DETAILS FOR APPROVAL BY THE ARCHITECT.
7. VENTS THRU ROOF SHALL NOT BE LESS THAN 3" TO PREVENT FROST CLOSURE. WHERE VENTS SMALLER THAN 3" ARE INDICATED ON THE DRAWINGS, INCREASE TO 3" SIZE AT LEAST 12" BELOW ROOF.
8. VENTS SHALL TERMINATE NOT LESS THAN 6" ABOVE ROOF. VENTS SHALL NOT TERMINATE BELOW OR WITHIN 10' HORIZONTALLY OF ANY DOOR, WINDOW, FRESH AIR INTAKE OR OTHER VENTILATION OPENING. WHERE 10' HORIZONTAL CLEARANCE CANNOT BE MAINTAINED, EXTEND VENT TO AT LEAST 2' ABOVE VENTILATION OPENING.

DOMESTIC WATER

1. DOMESTIC COLD AND HOT WATER PIPING SHALL BE COPPER TYPE "L".FITTINGS SHALL BE WROUGHT COPPER, 95%-5% SOLDER SHALL BE USED.
2. ALL POTABLE WATER PIPING SHALL BE DISINFECTED AS PER AWWA STANDARD C601-54 AND AS REQUIRED BY THE LOCAL BUILDING AND HEALTH DEPARTMENT CODES.
3. ANTI WATER-HAMMER SHOCK ABSORBERS SHALL BE JAY R. SMITH "HYDROTROL" SIZED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
4. PROVIDE STOP VALVES FOR ALL DOMESTIC WATER CONNECTIONS TO FIXTURES EXCEPT WHERE GATE VALVES ARE INDICATED ON THE DRAWINGS.
5. ALL HOSE BIBS AND HYDRANTS SHALL BE PROVIDED WITH APPROVED VACUUM BREAKERS.
7. PROVIDE CHROME PLATED, BRASS ANGLED STOP VALVES FOR ALL WATER CLOSETS, LAVS, SINKS, ETC.
8. PROVIDE ASME TEMPERATURES AND PRESSURE RELIEF VALVES FOR ALL DOMESTIC WATER HEATERS.
9. DISCHARGE OF ALL RELIEF VALVES SHALL BE PIPED TO THE FLOOR TO PREVENT ACCIDENTAL SCALDING.
10. PROVIDE TWO (2) GATE VALVES AND TWO (2) UNIONS AND DRAIN VALVE WITH HOSE THREAD FOR EACH DOMESTIC WATER HEATER.

HANGERS AND SUPPORTS

1. ALL FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE PIPING SYSTEM. SEE "FIXTURES" SECTION OF "NOTES AND SPECIFICATIONS" AND FIXTURE SCHEDULE NOTES.
2. MAXIMUM SPACING OF SUPPORTS FOR VERTICAL PIPING SHALL NOT EXCEED:

TYPE OF PIPING	MAXIMUM SPACING
CAST IRON SOIL LINES	AT BASE AND EACH STORY
THREADED STEEL PIPE	AT EVERY OTHER STORY
COPPER TUBE	AT 10'-0" INTERVALS

PROVIDE RISER CLAMPS, WALL BRACKET HANGER, ETC. AS REQUIRED. HANGERS FOR PVC PIPING SHALL BE AS APPROVED BY THE MANUFACTURER.

3. MAXIMUM SPACING OF SUPPORTS FOR HORIZONTAL PIPING SHALL NOT EXCEED:

TYPE OF PIPING	MAXIMUM SPACING
CAST IRON SOIL PIPE	AT 5'-0" (10'-0" FOR 10'LENGTHS)
THREADED STEEL PIPE (3/4" LESS	AT 10'-0" INTERVALS
THREADED STEEL PIPE (1" & LARGER)	AT 12'-0" INTERVALS
COPPER TUBE (1/4" & LESS)	AT 6'-0" INTERVALS
COPPER TUBE (1 1/2" & LARGER)	AT 10'-0" INTERVALS

4. ALL RISERS SHALL BE SUPPORTED AT THE BASE.
5. PROVIDE CAPABILITY FOR EXPANSION AND CONTRACTION IN ALL PIPING AS INDICATED BELOW:

TYPE OF PIPING	TYPE OF PROVISIONS
DRAIN LINES IN UNHEATED AREAS	EXPANSION FITTING @ 125'
DOMESTIC HOT WATER LINES	EXPANSION LOOP @ 100'

INSULATION

1. THE FOLLOWING PIPING SHALL BE INSULATED:
   A. DOMESTIC COLD WATER
   B. DOMESTIC HOT WATER
2. INSULATION SHALL BE 1" RIGID FIBERGLASS AND SHALL BE MANVILLE "MICRO-LOK" OR APPROVED EQUAL. PROVIDE JACKETS AS SPECIFIED BELOW.
3. JACKETS FOR GENERAL PURPOSE, INDOOR USE SHALL BE MANVILLE "AP-T PLUS" PRESSURE SENSITIVE LAP SEALING SYSTEM OR APPROVED EQUAL.
4. JACKETS FOR OUTDOOR USE SHALL BE MANVILLE "ZESTON 2000" PVC WITH "PERMA-WELD" ADHESIVE OR APPROVED EQUAL.
5. VALVES, FLANGES, ELBOWS, TEES, HUBS AND OTHER FITTINGS SHALL BE INSULATED USING MANVILLE "M-LO TEMP" FIBERGLASS INSERTS WITH MANVILLE "ZESTON 2000" PVC FITTING COVERS SECURED WITH MANVILLE "PERMA-WELD" ADHESIVE.
6. ALL INSULATION SYSTEMS, INCLUDING INSULATION, ADHESIVES AND JACKETS SHALL BE CERTIFIED IN ACCORDANCE WITH ASTME84 FOR FLAMESPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPED RATING OF 50 OR LESS.
7. ALL BUT JOINTS OF INSULATION SECTIONS SHALL BE SEALED USING BUTT STRIPS AS RECOMMENDED BY THE MANUFACTURER FOR THE JACKET EMPLOYED.

FIXTURES

1. SEE FIXTURE SCHEDULE FOR FIXTURE TYPES AND CONNECTION SIZES.
2. COORDINATE EXACT FIXTURE LOCATIONS FOR ROUGHING WITH THE ARCHITECTURAL DRAWINGS.
3. WHERE ARCHITECTURAL DRAWINGS INDICATE TOILET ROOMS TO BE HANDICAPPED ACCESSIBLE OR HANDICAPPED ADAPTABLE COORDINATE FIXTURE CLEARANCE WITH N.J.A.C. 5:23-7, "BARRIER - FREE SUBCODE".
4. UNLESS OTHERWISE INDICATED, ALL FIXTURES SHALL BE "WHITE". COORDINATE ALL FIXTURE COLORS WITH THE ARCHITECT.
5. PROVIDE POP-UP DRAIN AND OVERFLOW FOR ALL LAVS.

TESTING AND DISINFECTION

1. ALL NEW PLUMBING SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH THE NSPC.
2. SANITARY DRAINAGE SYSTEMS ROUGHING SHALL BE PRESSURE TESTED AT NOT LESS THAN 5 PSI FOR A PERIOD OF 15 MINUTES. PROVIDE TEST TEES, TEST PLUGS AND COMPRESSOR AS REQUIRED. THE FINAL SANITARY DRAINAGE SYSTEM SHALL BE SMOKE TESTED. WHERE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION, PEPPERMINT MAY BE USED IN LIEU OF SMOKE TESTS.
3. DOMESTIC WATER SYSTEMS SHALL BE HYDROSTATIC TESTED A 150 PSI FOR NOT LESS THAN ONE HOUR.
4. ALL NEW DOMESTIC WATER SYSTEMS SHALL BE DISINFECTED USING A WATER CHLORINE SOLUTION AND IN ACCORDANCE WITH THE REQUIREMENTS OF NSPC ARTICLE #103.

PLUMBING SYMBOLS

PIPING

- UNDERGROUND SANITARY DRAIN
- ABOVE GROUND SANITARY DRAIN
- VENT PIPING
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER SUPPLY (140°F)
- DOMESTIC HOT WATER RETURN (140°F)
- 180° — DOMESTIC HOT WATER (180°F)
- PIPE TURNING DOWN
- PIPE TURNING UP

SANITARY SYSTEMS

- DPCO — DECK PLATE CLEANOUT
- CO — HORIZONTAL CLEANOUT
- VTRo / VTR — VENT THRU ROOF W/FLASHING & COUNTERFLASHING
- TRAP
- AD — ACCESS DOOR
- FD F.D. — FLOOR DRAIN W/TRAP
- FR F.R. — FLOOR RECEPTOR W/SPLASH PROOF RIM
- FFD F.F.D. — FUNNEL FLOOR DRAIN
- TRENCH DRAIN
- F.D., F.R., ETC. W/BACKWATER VALVE

DOMESTIC WATER SYSTEMS

- BALANCING VALVE
- CHECK VALVE
- STOP VALVE (CHROME PLATED)
- GATE VALVE (NORMALLY OPEN)
- GATE VALVE (NORMALLY CLOSED)
- UNION
- FLANGED CONNECTION
- SOLENOID VALVE
- ANGLE VALVE
- ASME APPROVED T & P RELIEF VALVE
- GLOBE VALVE
- THREE-WAY VALVE
- PRESSURE GAUGE W/COCK
- THERMOMETER
- TEMPERATURE SWITCH (AQUASTAT)
- FLOW SWITCH
- PRESSURE SWITCH
- STRAINER
- ANTI-WATER HAMMER DEVICE (PDI RATING AS NOTED)
- BASE MOUNTED PUMP
- AUTOMATIC TRAP PRIMER W/BACKFLOW PREVENTION
- WATER METER W/FLANGED CONNECTIONS
- FLANGED CIRCULATING PUMP W/BRONZE CASING & IMPELLER
- HB — HOSE BIBB W/VACUUM BREAKER
- WA — FREEZE PROOF WALL HYDRANT W/VACUUM BREAKER
- WM — WATER METER ASSEMBLY W/GATE VALVES & UNIONS
- WM — FLANGED WATER METER ASSEMBLY W/ GATE VALVES
- DOUBLE CHECK VALVE BACKFLOW PREVENTER W/DRIP
- REDUCED PRESSURE ZONE BACKFLOW PREVENTER
- THERMOSTATIC MIXING VALVE
- SHOWER HEAD
- SHOWER VALVE (ANTI-SCALD PRESSURE BALANCED TYPE)

MISCELLANEOUS

- CONNECT TO EXISTING

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BTU	BRITISH THERMAL UNITS
CAI	COMBUSTION AIR INTAKE
CI	CAST IRON
CU	COPPER
CU.FT.	CUBIC FEET
CW	COLD WATER
DI	DUCTILE IRON
ELEV	ELEVATION
FPS	FEET PER SECOND
GAL	GALLONS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HORSEPOWER
HW	HOT WATER
ID	INSIDE DIAMETER
IPS	INTERNATIONAL PIPE SIZE
LF	LINEAR FEET
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAUGE
RECIRC	RECIRCULATION
SHCI	SERVICE WEIGHT CAST IRON
VAC	VACUUM
WTR	WATER
XHCI	EXTRA HEAVY CAST IRON

SCHEDULE OF PLUMBING FIXTURES

FIXTURE TAG	FIXTURE TYPE	MANUFACTURER/MODEL & ACCESSORIES: FIXTURE	SEAT	FAUCET/FLUSH VALVE	FIXTURE CONNECTIONS (VALVE INLET): WASTE	VENT	C.W.	H.W.	GPM GPF	FLOOD RIM (A.F.F.)	MATERIALS: VITR. CHINA	STAINLESS	PORC. ON STL.	ENAM. CAST IRON	OTHER	WALL HANGER	SUPPORT CARRIER	STRAINER DRAIN	POP-UP DRAIN	P-TRAP W/ C.O.	OFFSET DRAIN	INSULATION KIT	INTERGRAL STOP(S)	ANGLED STOP(S)	LEVER DRAIN STOP	VACUUM BREAKER	FLEX. SUPPL.(S)	SEE NOTE(S)
FD1	PUBLIC AREA FLOOR DRAIN	JAY R. SMITH #2005-55-P050	N/A	N/A	3"	2"	1/2"	N/A	N/A	N/A	●				●			●										———
WC1	FLOOR MOUNTED WATER CLOSET	KOHLER "WELLWORTH" #K-3987-0	KOHLER CLOSED FRONT #K-4629-0	PRESSURE ASSISTED FLUSH VALVE	4"	2"	1/2"	N/A	1.28 GPF	14-1/2"	●													●				4, 5, 6, 7, 9, 14
MB1	MOP BASIN	FIAT "STOCKTON" #TSBG6010	N/A	FIAT #830-AA (FAUCET) #832-AA (HOSE & BRACKET) #884-CC (MOP HANGER)	3"	2"	1/2"	1/2"	2.5 GPM	28"	●			●			●		●			●						3, 8, 10, 11, 12
LAV1	VANITY TOP W/ INTEGRAL SINKS (4" CENTERS)	VANITY TOP W/ INTEGRAL SINKS (4" CENTERS)	N/A	KOHLER "CORALAIS" #K-15182-F-CP SINGLE LEVER	1 1/4"	1 1/4"	1/2"	1/2"	0.5 GPM	34"					●		●	●			●	●		●			●	1, 2, 3, 7, 9, 11, 12, 13
SI	COUNTERTOP, 1 COMPARTMENT PANTRY SINK (3 HOLE)	L6 HI-MACS SINGLE SINK, ARCTIC WHITE #2315	N/A	KOHLER "BELLERA" #K-5160-VS SINGLE LEVER	1 1/2"	1 1/2"	1/2"	1/2"	2.5 GPM	2'-8"					●			●		●				●			●	1, 4, 7, 11, 12, 13
SH1	SHOWER	VIGO INDUSTRIES #VIGO6049W1T4B532C W/ JAY R. SMITH #2009, SHOWER DRAIN W/ FLASHING CLAMP	N/A	KOHLER "CORALAIS" W/ #K-T15611-4-CP TRIM & #K-2471-K5 PRESSURE BALANCING VALVE	2"	1 1/2"	1/2"	1/2"	2.5 GPM	N/A					●				●				●			●		3, 9, 10

NOTES TO SCHEDULE OF PLUMBING FIXTURES:

1. PROVIDE STRAINER AND OVERFLOW FOR ALL LAVATORIES.
2. ALL EXPOSED WATER & DRAIN LINES BELOW ACCESSIBLE LAVS & SINKS SHALL BE INSULATED IN ACCORDANCE WITH A.N.S.I. #A117.1. INSULATION SHALL BE PREMOLDED, JACKETED TYPE AND SHALL BE TRUEBRO "HANDI-LAV GUARD" WITH H & CH STOP VALVE COVERS OR APPROVED EQUAL.
3. FAUCET CONTROL OPERATING FORCE SHALL NOT EXCEED 5#-FT IN ACCORDANCE WITH ANSI #A117.1.
4. WATER CLOSETS SHALL BE OF THE ROUND FRONT TYPE AND SHALL BE MOUNTED WITH FLOOD RIM AT 1'-2" A.F.F. PER N.S.P.C. #7.7.1.
5. ALL WATER CLOSETS SHALL BE PROVIDED WITH A HINGED, CLOSED FRONT SEAT WITH COVER, UNLESS OTHERWISE NOTED. SEATS SHALL BE PROVIDED WITH CONCEALED HARDWARE.
6. ALL WATER CLOSETS SHALL BE OF THE "ULTRA-LOW FLUSH" TYPE (1.28 GAL./FLUSH OR LESS).
7. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS OF HANDICAPPED ACCESSIBLE URINALS, SINKS, WATER CLOSETS AND LAVS.
8. MOP & SERVICE SINK FAUCETS TO BE PROVIDED WITH TOP WALL BRACE, 3/4" HOSE THREAD SPOUT END, VACUUM BREAKER, BUCKET HOOK, HOSE, HOSE BRACKET AND MOP HANGER.
9. ALL FIXTURE COLOR SELECTIONS SHALL BE BY THE ARCHITECT. BASE BID SHALL BE BASED ON WHITE FIXTURES AND SEATS. PROVIDE AN ALTERNATE BID BASED ON PREMIUM COLOR FIXTURES AND SEATS.
10. ALL FLUSH VALVES, SCULLERY SINK AND SERVICE SINK FAUCETS SHALL BE PROVIDED WITH INTEGRAL SCREWDRIVER STOPS.
11. ALL FAUCETS NOT PROVIDED WITH INTEGRAL STOPS SHALL BE SUPPLIED WITH CHROME PLATED BRASS ANGLED STOP VALVES.
12. ALL SINK FAUCETS SHALL BE PROVIDED WITH 2.5 GPM FLOW RESTRICTOR.
13. PROVIDE BASKET STRAINER, TRAP, TAILPIECE, CONNECTIONS, ETC.
14. ALL TOILETS SHALL BE PROVIDED WITH A STAINLESS STEEL FLOOR FLANGE.

SCHEDULE OF WATER HEATERS

WATER HEATER	SERVICE	TYPE	OUTLET TEMPERATURE (°F)	MANUFACTURER/ MODEL NO.	EFFICIENCY (%)	STORAGE (GAL.)	ELECTRICAL REQUIREMENTS: KW (PER ELEMENT)	VOLTS/PHASES/HZ.	AMPS	GAS REQUIREMENTS: TYPE	MBTU'S	GAS PRESSURE (IN. W.C.)	VENT SIZE (INCHES)	RECOVERY @ 40° (GPH)
WH-1	120° HOT WATER	STORAGE, ELEC.	140	AO SMITH #EGRT-80	100	80	4.5	208/1/60	21.6	N/A	N/A	N/A	N/A	21 GPH

NOTES TO SCHEDULE OF WATER HEATERS:

1. REFER TO PIPING DIAGRAM FOR ADDITIONAL NOTES.
2. REFER TO SCHEDULE OF EXPANSION TANKS FOR BLADDER TYPE EXPANSION TANK.

SCHEDULE OF EXPANSION TANKS

EXPANSION TANK	SERVICE	TYPE	MANUFACTURER/MODEL NO.	VOLUME (GAL.)	ACCEPTANCE FACTOR	HEIGHT (INCHES)	DIAMETER (INCHES)	WATER CONNECTION (N.P.T.)
EXT-1	WH-1	BLADDER TYPE	AMTROL "THERM-X-TROL" #ST-5-C	2.1	0.43	10 3/8"	10"	3/4"

Revisions

Date	Issue	Description
03-06-15	1	ISSUED FOR DCA FILING
03-18-15	2	ISSUED FOR BIDDING

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Date	02-03-15	Scale	AS NOTED
Drawn By	MD	Checked By	SG

Dwg. Title

PLUMBING NOTES, SYMBOLS & SCHEDULES

Work Order No. 4698C

Dwg. No. P001