

PLUMBING NOTES

- COORDINATE ALL PIPING ROUTING WITH ALL OTHER TRADES PRIOR TO INSTALLATION. ROUTE ALL PIPING TO AVOID DUCTWORK, ELECTRICAL RACEWAYS, AND BUILDING STRUCTURE. IF PENETRATIONS THROUGH STRUCTURAL MEMBERS ARE REQUIRED FOR PLUMBING INSTALLATIONS, NOTIFY ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO INSTALLATION TO INSURE THAT STRUCTURAL INTEGRITY IS MAINTAINED.
- THIS CONTRACTOR SHALL BASE HIS PROPOSAL UPON THE EQUIPMENT AS SCHEDULED OR SPECIFIED, USING THE MANUFACTURERS AND MODEL NUMBERS AS CALLED FOR IN THE SPECIFICATIONS AND SCHEDULED ON THE DRAWINGS.
- THE CONTRACTOR IS EXPECTED TO ORDER ALL MATERIALS IN SUFFICIENT TIME TO AVOID DELAYING THE COMPLETION OF THE PROJECT. DELAY IN DELIVERIES WILL NOT BE CONSIDERED A JUSTIFIABLE REASON FOR SUBMISSION OF SUBSTITUTE MATERIALS.
- SLEEVE AND FIRE STOP ALL PENETRATIONS OF RATED WALLS, CEILING, FLOORS, ETC. IN ACCORDANCE WITH APPLICABLE UL STANDARDS AND LOCAL CODES TO MAINTAIN RATINGS. SEE SPECIFICATION. SEE ARCHITECTURAL DRAWINGS FOR RATED WALLS AND FLOORS.
- PIPE ROUTING SHOWN IS SCHEMATIC AND IS INTENDED TO INDICATE GENERAL ROUTING. PLUMBING CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN FIELD. THIS SHALL RESULT IN NO ADDITIONAL COST TO THE OWNER.
- ALL PLUMBING INSTALLATION AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES AND APPLICABLE STANDARDS, REGULATIONS, AND AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.
- PROVIDE ACCESS PANELS TO ALL VALVES AND OTHER DEVICES WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILING. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- INSTALL WATER HAMMER SHOCK ARRESTORS AT EACH FIXTURE OR BATTERY OF FIXTURES WHERE REQUIRED. ARRESTORS SHALL BE FACTORY-FABRICATED. INSTALL ARRESTORS AND SIZE PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I.
- SITE CONNECTIONS SHALL BE PROVIDED ON CIVIL SITE UTILITIES DRAWINGS. CIVIL CONTRACTOR SHALL MAKE ALL FINAL PLUMBING SERVICE CONNECTIONS TO SITE WORK UTILITIES AS SHOWN ON THESE DRAWINGS.
- DRAINAGE PIPING SHALL SLOPE NO LESS THAN 1/8" FALL PER FOOT. SEE SPECIFICATION.
- FURNISH AND INSTALL HOSE BIBBS AND HYDRANTS 24" ABOVE FINISHED GRADE/FLOOR AT LOCATIONS INDICATED ON PLANS.
- ALL VENTS THROUGH ROOF SHALL BE LOCATED AWAY FROM AIR INTAKES AS REQUIRED BY CODE.
- SUBMIT SHOP DRAWINGS (INCLUDING PIPE ROUTING AND EQUIPMENT LOCATION) TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO THE INSTALLATION OR PURCHASING OF ANY PIPING AND/OR EQUIPMENT. REFER TO SPECIFICATIONS ON THIS REQUIREMENT.
- ANY PIPING IN UNCONDITIONED SPACES SHALL BE FULLY INSULATED AND PROTECTED FROM FREEZING TEMPERATURES. INSULATION SHALL BE 1" THICK FIBERGLASS.
- ABSOLUTELY NO UNDERGROUND AND ABOVE GROUND PLASTIC PIPING OF ANY KIND WILL BE PERMITTED TO USE. SEE SPECIFICATIONS.
- KEEP INSTALLED PIPE CLEAN AND PROTECT ENDS FROM FOREIGN MATTER BY CAPPING OR PLUGGING THEM. INSTALL PIPE SO THAT IT DOES NOT INTERFERE WITH ANY OPENING OR ACCESS TO EQUIPMENT; ANY PORTION OF ELECTRICAL EQUIPMENT, RUN PIPES IN STRAIGHT LINES AND SQUARE WITH BUILDING. INSTALL RISERS VERTICALLY PLUMB.
- FIELD VERIFY ALL POINTS OF CONNECTIONS TO ALL SITE UTILITY SERVICES.
- VALVES LOCATIONS: LOCATE SHUT OFF AND CONTROL VALVES FOR EASY ACCESS AND OPERATION, WHERE VALVES ARE LOCATED IN ENCLOSED SPACES, ACCESS DOORS SHALL BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR DESCRIBED IN SPECIFICATIONS.
- REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT SIZE AND LOCATION.
- REFER TO ELECTRICAL DRAWINGS FOR PANEL LOCATIONS TO MAINTAIN CLEARANCES AROUND PANELS AS REQUIRED BY CODE.
- EQUIPMENT SIZES AND SERVICE SPACE REQUIREMENTS VARY BETWEEN DIFFERENT MANUFACTURERS. CONSULT MANUFACTURER AS SUBMITTED AND APPROVED FOR COMPARABILITY WITH PLUMBING DRAWINGS.
- CLEANING: BEFORE PIPING IS ACCEPTED BY THE ARCHITECT, CLEAN AND STERILIZE THE PIPING SYSTEMS AS DESCRIBED IN SPECIFICATIONS.
- ALL EQUIPMENT SHALL COMPLY WITH RFP NO. NS9450-07-R-0062 REQUIREMENTS.

PLUMBING ABBREVIATIONS

CW	COLD WATER	M.H.	MANHOLE
H.W.	HOT WATER	E.C.O.	EXTERIOR CLEANOUT
VTR	VENT THRU ROOF	F.H.	FIRE HYDRANT
W	WASTE (INTERIOR)	R.D.	ROOF DRAIN
RWL	RAIN WATER LEADER	F.D.	FLOOR DRAIN
STM	STORM WATER	P.R.V.	PRESSURE REDUCING VALVE
IE	INVERT ELEVATION	R.P.B.P.	REDUCED PRESS. BACKFLOW PREVENTER
G/FH	CUBIC FEET PER HOUR	A.F.G.	ABOVE FINISHED FLOOR
A/S	AUTOMATIC SPRINKLER	A.F.G.	ABOVE FINISHED GRADE
FSP	FIRE STANDPIPE	A.P.	ACCESS PANEL
CTB	CONCRETE THRUST BLOCK	W.C.O.	WALL CLEANOUT
FF	FINISHED FLOOR	S.S.	SANITARY SEWER
BLDG.	BUILDING	C.O.	CLEANOUT
CL	CENTER LINE	P.R.S.	PRESSURE REDUCING STATION
CV	CHECK VALVE	G.P.W.	GALLONS PER MINUTE
CONT.	CONTINUATION	H.B.	HOSE BIBB
COND.	CONDENSATE	W.H.	WALL HYDRANT
CLG	CEILING	I.W.	INDIRECT WASTE
CW	COLD WATER	M.H.	MANHOLE
DN.	DOWN	R.D.	ROOF DRAIN
DR.	DRAIN	RED.	REDUCER
DET.	DETAIL	RED.	REDUCER
DIAG.	DIAGRAM	MO	MOTOR OIL
DIAM.	DIAMETER	AF	ANTI FREEZE
DOM.	DOMESTIC	CG	CHASSIS GREASE
DMG.	DRAWING	SM.	SANITARY
EA.	EACH	SOH.	SCHEDULE
FL.	FLOOR	SECT.	SECTION
FT.	FOOT	SHT.	SHEET
F.U.	FIXTURE UNIT	SPECS.	SPECIFICATIONS
G.V.	GATE VALVE	SPKR.	SPRINKLER
GAL.	GALLONS	TEMP.	TEMPERATURE
G.P.H.	GALLONS PER HOUR	TYP.	TYPICAL
F.D.C.	FIRE DEPARTMENT CONNECTION	V.	VENT
B.F.F.	BELOW FINISHED FLOOR	VS.	VENT STACK

PLUMBING LEGEND

CW	COLD WATER	_____
HW	HOT WATER	_____
HWR	HOT WATER RETURN	_____
G	GAS	_____
V	VENT	_____
W	WASTE LINE	_____
S	SEWER	_____
A	AIR	_____

EXISTING AIR COMPRESSOR SCHEDULE

SYSTEM DESIGN	MANUF. MODEL NO.	TYPE	HP	GAL./CFM @ 90 PSIG	MAX. RECEIVER PRESSURE	OUTLET SIZE	VOLTAGE	WEIGHT	RECEIVER
EA-C-1	CARBELL HAUSFELD V16329090AL	SINGLE STAGE	7	10.3	135	3/4"	240V/15A 60HZ/1PH	600 LBS	60 GAL
RD-1	INGERSOLL RAND D251N	REFRIGERATED AIR DRYER	1/10	15	MAX. PRESSURE 203 PSI		115V, 1PH 2.8 AMP	20 LBS	DIMENSIONS 18LX12WX16H

- PROVIDE DRYER PACKAGE INCORPORATES A REFRIGERATED DRYER AND BYPASS, MOISTURE SEPARATOR, PREFILTER AND AFTER FILTER.
- FILTERS SHALL BE INGERSSOLL RAND MODEL NO. F3SH WITH 3/4" CONNECTION AND ONE SET OF SPARE FILTERS. SEE DETAIL SHEET P.06.1

WATER HEATER SCHEDULE

SYSTEM DESIGN	TYPE	MFG.	MODEL NO.	ENT. W/ 80° RISE	RECOVERY TANK SIZE	SIMULTANEOUS OPERATION. 2 WIRE CONFIG.	POWER	SHIPPING WT	LOCATION
EWHT-1	ELECTRIC	RUUD	ELD66	40	120	61 GPH	2 ELEMENTS 6kW/6KW	480V, 1PH 250/12KW	BOILER ROOM
EWHT-2	ELECTRIC	EEMAX	EGE WASH UNIT EX60T	40	80	---	---	277V/1PH/60H 22A/6KW	DRP WORK ROOM

NOTES:

- PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PAD AND 1 1/2" HIGH, 18 GA. STAINLESS STEEL SAFE PAN WITH 3/4" DRAIN OUTLET.
- EWHT-1 SHALL BE COMMERCIAL WATER HEATER.
- EWHT-2 DO NOT REDUCE TO 208V.

EXPANSION TANK

MARK	MANUF	MODEL NO.	CAPACITY GALLONS	TYPE
XT-1	ELBI	DTS-30	8	ASME BLADDER THERMAL EXPANSION TANK.

THERMOSTATIC MIXING VALVE

MARK	MIN FLOW GPM	MAX FLOW GPM	MAX. PRESS. DROP	MANUFACTURER - MODEL NUMBER
TW-1	1	10	10 PSI	LEONARD MODEL TW-554-26-E-RF HIGH/LOW THERMOSTATIC MIXING VALVE

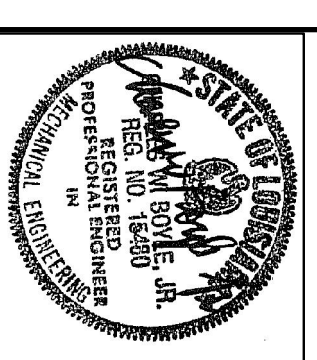
PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	SIZE, CW	SIZE, HW	WALL	WASTE
P-1	WATER CLOSET: WALL HUNG, KOHLER MODEL "KINGSSTON" WATER GUARD® K-4330, SIPHON JET, TOP SPUD, 1.6 G.P.F. ELONGATED BOWL, WHITE, VITREOUS CHINA, FLUSH VALVE-SLOAN ECOS 8111-1-6/1-1, DUAL FLUSH, BATTERY-POWER CHROME PLATED W/ANGLE STOP AND VACUUM BREAKER & TRAP PRIMER ADAPTER AS REQUIRED. OLSONITE 95 WHITE OPEN FRONT SEAT LESS COVER. PROVIDE FLOOR MOUNTED CARRIER SUPPORTS.	1"	---	4"	
P-1A ADA	WATER CLOSET: WALL HUNG, KOHLER MODEL "KINGSSTON" WATER GUARD® K-4330, SIPHON JET, TOP SPUD, 1.6 G.P.F. ELONGATED BOWL, WHITE, VITREOUS CHINA, FLUSH VALVE-SLOAN ECOS 8111-1-6/1-1, DUAL FLUSH, BATTERY-POWER CHROME PLATED W/ANGLE STOP AND VACUUM BREAKER & TRAP PRIMER ADAPTER AS REQUIRED. OLSONITE 95 WHITE OPEN FRONT SEAT LESS COVER. PROVIDE FLOOR MOUNTED CARRIER SUPPORTS. ADA ROUGH-IN COMPLIANT.	1"	---	4"	
P-2	LAVATORY: KOHLER MODEL "PENNINGTON" K-2196-4L, COUNTER MOUNTED SELF-RIMMING, 20" X 18", WHITE, VITREOUS CHINA, FAUCET: CHICAGO MODEL NO. 116.21.21.1 WITH 4" BASE PLATE, BATTERY POWERED, CHROME PLATE, DECK MOUNTED, PROVIDE WITH GRID DRAIN & TAILPIECE CHROME PLATED. ADJUSTABLE 17 GA. TWO PIECE 1 1/2" X 1 1/4" CAST-BRASS P-P-TRAP WITH CLEANOUT WITH ESCUTCHEON 1/2" /P/S. X 3/8" O.D. LOOSE KEY ANGLE STOP WITH STAINLESS STEEL FLEXIBLE BRAIDED HOSE CONNECTIONS. FOR ADA COMPLIANCE FIXTURES INSULATED DRAIN AND WATER SUPPLIES WITH HAND LAV-GUARD INSULATION KIT EQUIVALENT TO PLUMBEREX CO.	1/2"	---	2"	
P-3	URINAL: WALL HUNG, KOHLER MODEL "BARBON" K-4960-1, WHITE 3/4" TOP SPUD, 1.0 G.P.F., WHITE, VITREOUS CHINA, 14" ELONGATED RIM, FLUSH VALVE-SLOAN OPTIMA G2 PLUS 8166, BATTERY-POWER CHROME PLATED W/ANGLE STOP AND VACUUM BREAKER PROVIDE FLOOR MOUNTED CARRIER SUPPORTS.	3/4"	---	2"	
P-3A ADA	URINAL: ADA : WALL HUNG, KOHLER MODEL "BARBON" K-4960-1, WHITE 3/4" TOP SPUD, 1.0 G.P.F., WHITE, VITREOUS CHINA, 14" ELONGATED RIM, FLUSH VALVE-SLOAN OPTIMA G2 PLUS 8166, BATTERY-POWER CHROME PLATED W/ANGLE STOP AND VACUUM BREAKER PROVIDE FLOOR MOUNTED CARRIER SUPPORTS. ADA ROUGH-IN COMPLIANT.	3/4"	---	2"	
P-4	ELECTRIC WATER COOLERS - B-I-LEVEL VANILA RESISTANT, HALSEY TAYLOR MODEL H4GGBL-VR-Q, STAINLESS STEEL BASIN AND LOWER SHROUDS FINISH, SHALL BE 8.0 GPH OF 80°F.	1/2	---	2"	
SK-1	SINGLE COMPARTMENT STAINLESS STEEL SINK, ELKAY MODEL P5R 3122-7 1/8" DEEP, 3 FAUCET HOLES, 18 GAUGE SELF-RIMMING, FAUCET CHICAGO MODEL 682-80P, DECK MOUNTED BATTERY POWERED, RIGID SWING GOOSENECK SPOUT 8" CENTER SET, ST. STL. 1 1/2" CUP STRAINER, W/CHROME PLATED TAIL PIECE, EASTMAN FLEXIBLE RISER LOOSE KEY STOP WALL SUPPLIES, ADJUSTABLE 1 1/2" TWO PIECE, 17 GA. P-TRAP WITH C.O. AND ESCUTCHEON.	1/2	1/2	2"	
EW	EMERGENCY EYEWASH-BRQULEY MODEL S19-2300C, STAINLESS STEEL WITH DUST COVER, PROVIDED WITH WALL MOUNTED BRACKET AND VALVE. EYE/WASH LOCATED IN ENTRANCE TO DRP WORK AREA. PROVIDE RECOMMENDED MANGINATOR S19-2000 EYE THERMOSTATIC MIXING VALVE.	1"	1"	3"	
MB-1	MOP BASIN FLORESTONE MODEL 95, 32 X 32 X 12", NEO ANGLE DROP FRONT, TERRAZO RECEPTOR WITH 3" DRAIN, TAN COLOR, STAINLESS STEEL CAP. FAUCET-CHICAGO MODEL 897 SUPPLY MIXING VALVE WITH VACUUM BREAKER AND 3/4" HOSE THREADED ON SPOUT, FLAT 832-AA, 30" LONG HEAVY-DUTY REINFORCE MOP HANGER WITH THREE RUBBER GRIPS.	1/2	1/2	3"	
FD-1	JR SMITH 2005F-1 FLOOR DRAIN W/SQUARE TOP, 4" CAST IRON BODY W/ FLUSHING COLLAR AND ADJUSTABLE STRAINER HEAD WITH FRAMER.	---	---	3"	
FD-2	JR SMITH 2210C, FLOOR DRAIN W/DUOCO CAST IRON BODY WITH CAST IRON GRATE AND SEDIMENT BUCKET.	---	---	3"	
ECO	EXTERIOR CLEANOUT-JR SMITH 4020SFC, ROUND NICKEL BRONZE TOP, DUOCO CAST IRON CLEANOUT W/ ROUND ADJUSTABLE SCORATED SECURED TOP, FLOOR MOUNTED.	---	---	4"	
FOO	JR SMITH ROUND NICKEL BRONZE TOP, DUOCO CAST IRON 2-WAY CLEANOUT W/ ROUND ADJUSTABLE SCORATED SECURED TOP, FLOOR MOUNTED.	3/4	---	---	
HB-1	HOSE BIBB WOODFORD MODEL 26, ROUGH BRASS FINISH WITH BACKFLOW PROTECTED.	3/4"	---	---	
FPWH-1	FREEZE PROOF WALL HYDRANT- 3/4" INLET AND 3/4" HOSE CONNECTION, JR SMITH FIG. 5609GT-HC1-C1, INTEGRAL VACUUM BREAKER AND EXPOSED HOSE CONNECTION. BRONZE NICKEL PLATED QUARTER TURN NON-FREEZE.	3/4"	---	---	
IMB-1	ICE MAKER VALVE BOX. SEE DETAIL.				

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 SHEET 1 OF 11
 P-01



NAVFAC
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 Southeast Division, Jacksonville, FL

NAS JRB New Orleans Belle Chasse, Louisiana
NAVAIRSEFAC CALIBRATION BLDG.
 PLUMBING NOTES & SCHEDULES
 APPROVED DATE: AUGUST 22, 2008 EFD FOR COMMANDER, NAVFAC

REV.	DESCRIPTION	PREP BY	DATE	APPRD.
0	FINAL DESIGN	RM	10/29/09	CB

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