CAN YOU SEE THE AIRPLANES? THE ADJACENT SAMPLES SHOW THREE DIFFERENT LEVELS OF SHADING. SETTINGS FOR VIEWING AND PRINTING DRAWING CONTENT ARE OPTIMIZED WHEN ALL THREE PLANES ARE VISIBLE. THIS GUIDANCE IS PROVIDED FOR REFERENCE ONLY.

light gray · dark gray · black

MISC. VALVES & COCKS

- SHUTOFF VALVE
- GLOBE VALVE
- GATE VALVE OS&Y
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- WYE STRAINER
- WYE STRAINER WITH BLOWDOWN
- DRAIN VALVE
- BALANCING VALVE
- FC — AUTOMATIC FLOW CONTROL VALVE
- PRESSURE REDUCING VALVE
- RELIEF VALVE
- TRIPLE DUTY VALVE
- TWO-WAY CONTROL VALVE
- THREE-WAY CONTROL VALVE
- THREE-WAY BALANCING VALVE
- GAS COCK VALVE
- PLUG VALVE
- BOILER BLOWDOWN VALVE, QUICK OPENING
- BOILER BLOWDOWN VALVE, Y-PATTERN
- NON-RETURN STOP VALVE
- F&T — FLOAT AND THERMOSTATIC STEAM TRAP
- IB — INVERTED BUCKET STEAM TRAP
- DOUBLE CHECK VALVE ASSEMBLY (DCVA)
- REDUCED PRESSURE BACKFLOW PREVENTER (RPBP)
- BWV — BACKWATER VALVE
- PIV — POST INDICATOR VALVE
- UG — UNDERGROUND GATE VALVE WITH VALVE BOX
- WATER FLOW METER

- THERMOMETER
- PRESSURE GAUGE
- PRESSURE-TEMPERATURE TEST PLUG
- MAV — MANUAL AIR VENT
- AAV — AUTOMATIC AIR VENT
- F — FLOW SWITCH
- T — TEMPERATURE SENSOR
- S (SIZE) — SHOCK ARRESTOR
- V — VACUUM BREAKER
- S — SHUTOFF VALVE WITH TAMPER SWITCH
- S — SOLENOID VALVE
- P — PRESSURE SENSOR
- A — AQUASTAT

STANDARD ABBREVIATIONS

AD	AREA DRAIN	EEW	EMERGENCY EYE WASH
ADA	AMERICANS WITH DISABILITIES ACT	EFF	EFFICIENCY
AF	AIRFOIL	EFT	ENTERING FLUID TEMPERATURE
AFF	ABOVE FINISHED FLOOR	ELEC	ELECTRIC, ELECTRICAL
AHP	APPARATUS HOUSING PLENUM	ELEV	ELEVATION
AL	ALUMINUM	ENGR	ENGINEER
ALT	ALTERNATIVE	EQ	EQUAL
AP	ACCESS PANEL	EQUIP	EQUIPMENT
APD	AIR PRSSURE DROP	ES	EMERGENCY SHOWER
APPROX	APPROXIMATELY	ESP	EXTERNAL STATIC PRESSURE
ARCH	ARCHITECT, ARCHITECTURAL	ET	EXPANSION TANK
AS	AUTOMATIC SPRINKLER	EWB	ENTERING WET BULB
AUTO	AUTOMATIC	EWC	ELECTRIC WATER COOLER
BDD	BACKDRAFT DAMPER	EWH	ELECTRIC WATER HEATER
BFF	BELOW FINISHED FLOOR	EWT	ENTERING WATER TEMPERATURE
BHP	BREAK HORESPOWER	EX	EXTRACTOR
BI	BACKWARD INCLINED	EXP	EXPANSION
BLDG	BUILDING	EXH	EXHAUST OR EXHAUST AIR
BOP	BOTTOM OF PIPE	F	DEGREES FAHRENHEIT
BOS	BOTTOM OF STRUCTURE	FC	FORWARD CURVED
BSMT	BASEMENT	FCO	FLOOR CLEANOUT
BTU	BRITISH THERMAL UNIT	FD	FIRE DAMPER (MECHANICAL)
BTUH	BRITISH THERMAL UNITS PER HOUR	FD	FLOOR DRAIN (PLUMBING)
BTV	BUTTERFLY VALVE	FDC	FIRE DEPARTMENT CONNECTION
BV	BALANCING VALVE	FFE	FINISHED FLOOR ELEVATION
CALC	CALCULATION	FIG	FIGURE
CB	CATCH BASIN	FL	FLOOR
CFH	CUBIC FEET PER HOUR	FLA	FULL LOAD AMPACITY
CFM	CUBIC FEET PER MINUTE	FLEX	FLEXIBLE
CFS	CUBIC FEET PER SECOND	FP	FIRE PUMP
CI	CAST IRON	FPD	FLUID PRESSURE DROP
CL	CENTERLINE	FPM	FEET PER MINUTE
CLG	CEILING OR COOLING	FPS	FEET PER SECOND
CO	CARBON MONOXIDE	FS	FLOOR SINK
CO	CLEANOUT	FSD	FIRE SMOKE DAMPER
CONC	CONCRETE	FT	FEET/FOOT
CONN	CONNECT, CONNECTION	FTR	FINNED TUBE RADIATOR
CONT	CONTINUED, CONTINUATION	FLT	FLUSH TANK
CP	CIRCULATING PUMP	FU	FIXTURE UNIT
CTG	CLEANOUT TO GRADE	FV	FLUSH VALVE
CV	CHECK VALVE	(F)	FUTURE
DB	DRY BULB	G	GRADE
DDC	DIRECT DIGITAL CONTROL	GA	GAGE/GAUGE
DEFL	DEFLECTION	GAL	GALLON
DF	DRINKING FOUNTAIN	GALV	GALVANIZED
DFU	DRAINAGE FIXTURE UNIT	GLY	GLYCOL
DI	DEIONIZED	GH	GROUND HYDRANT
DIA	DIAMETER	GPH	GALLONS PER HOUR
DIP	DUCTILE IRON PIPE	GPM	GALLONS PER MINUTE
DN	DOWN (PENETRATES FLOOR)	GV	GATE VALVE
DP	DEW POINT	H	HEIGHT
DR	DRAIN	HB	HOSE BIBB
DV	DRAIN VALVE	HD	HUB DRAIN
DROP	DROP (WITHIN FLOOR)	HORIZ	HORIZONTAL
DWDI	DOUBLE WIDTH DOUBLE INLET	HP	HORSEPOWER
DWG	DRAWING	HR	HOUR
(E), EXIST	EXISTING	HSW	HORIZONTAL SIDE WALL
EAT	ENTERING AIR TEMPERATURE	HT	HEAT TRACE
EC	EXTENDED COVERAGE	HTG	HEATING
ECM	ELECTRONICALLY COMMUTATED MOTOR	HV	HOSE VALVE
EDB	ENTERING DRY BULB	HVC	HOSE VALVE CABINET

STANDARD ABBREVIATIONS

RM	ROOF MANIFOLD	ID	INSIDE DIAMETER, INSIDE DIMENSION
RN	RISER NIPPLE	IE	INVERT ELEVATION
RPM	REVOLUTIONS PER MINUTE	IN	INCH, INCHES
S	SINK	INSUL	INSULATION
SA	SUPPLY AIR	IPS	IRON PIPE SIZE
SB	SWAY BRACE	ISO	ISOMETRIC
SCFM	STANDARD CUBIC FEET PER MINUTE	ISOL	ISOLATOR, ISOLATION
SD	SHOWER DRAIN (PLUMBING)	JP	JOCKEY PUMP
SD	SMOKE DAMPER (MECHANICAL)	KW	KILOWATT
SE	SEWAGE EJECTOR	KWH	KILOWATT HOUR
SECT	SECTION	L	LENGTH
SENS	SENSIBLE	LAT	LEAVING AIR TEMP
SF	SQUARE FOOT, SQUARE FEET	LAV	LAVATORY
SH	SHOWER	LB	POUND
SIM	SIMILAR	LDB	LEAVING DRY BULB
SOV	SHUTOFF VALVE	LF	LINEAR FEET
SP	STATIC PRESSURE	LFT	LEAVING FLUID TEMPERATURE
SPEC	SPECIFICATION	LVG	LEAVING
SQ	SQUARE	LWB	LEAVING WET BULB
SQ IN	SQUARE INCH, SQUARE INCHES	LWT	LEAVING WATER TEMPERATURE
SS	STAINLESS STEEL (ALL)	MAX	MAXIMUM
SSP	STANDARD SPRAY PENDENT	MBH	THOUSAND BTU PER HOUR
SSU	STANDARD SPRAY UPRIGHT	MCA	MINIMUM CIRCUIT AMPACITY
STL	STEEL	MECH	MECHANICAL
STRUCT	STRUCTURE, STRUCTURAL	MERV	MINIMUM EFFICIENCY REPORTING VALUE
SWP	SINGLE WALL PLENUM	MFR	MANUFACTURER
SWSI	SINGLE WIDTH SINGLE INLET	MIN	MINIMUM
TD	TRENCH DRAIN	MISC	MISCELLANEOUS
TDH	TOTAL DISCHARGE HEAD	MOCP	MAXIMUM OVERCURRENT PROTECTION
TDL	TOTAL DEVELOPED LENGTH	MS	MOP SINK
TEMP	TEMPERATURE	MTD	MOUNTED
TMV	THERMOSTATIC MIXING VALVE	NC	NORMALLY CLOSED
TOP	TOP OF PIPE	NIC	NOT IN CONTRACT
TP	TRAP PRIMER VALVE	NO	NORMALLY OPEN
TS	TAMPER SWITCH	NPS	NOMINAL PIPE SIZE
TSP	TOTAL STATIC PRESSURE	NRS	NON-RISING STEM
TYP	TYPICAL	NTS	NOT TO SCALE
U	URINAL	OAT	OUTSIDE AIR TEMPERATURE
UG	UNDERGROUND	OC	ON CENTER DISTANCE
UP	UP (PENETRATES FLOOR SLAB)	OD	OVERFLOW DRAIN
UON	UNLESS OTHERWISE NOTED	OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
V	VOLTS	OSA	OUTSIDE AIR
VB	VACUUM BREAKER	PD	PLANTER DRAIN
VD	VOLUME DAMPER	P/FT	PITCH PER FOOT
VEL	VELOCITY	PG	PRESSURE GAUGE
VERT	VERTICAL	PH	PHASE
VFD	VARIABLE FREQUENCY DRIVE	PIV	POST INDICATING VALVE
VTR	VENT THROUGH ROOF	PP	POLYPROPYLENE
W	WIDTH	PRV	PRESSURE REDUCING VALVE
WB	WET BULB	PS	PRESSURE SWITCH
WC	WATER CLOSET	PSI	POUNDS PER SQUARE INCH
WCO	WALL CLEANOUT	PSIG	POUNDS PER SQUARE INCH (GAUGE)
WFU	WATER FIXTURE UNITS	PVC	POLYVINYL CHLORIDE
WG	WATER GAUGE	PVS	PVC COATED STEEL
WH	WALL HYDRANT	R, RAD	RADIUS
WHA	WATER HAMMER ARRESTOR	RA	RELIEF AIR
WPD	WATER PRESSURE DROP	RD	ROOF DRAIN
WTD	WATER TEMPERATURE DROP	RET	RETURN AIR
WTR	WATER TEMPERATURE RISE	REV	REVISION
W/	WITH	RH	RELATIVE HUMIDITY
W/O	WITHOUT	RISE	RISE (WITHIN FLOOR)

DEMOLITION LEGEND

- REMOVE EXISTING PIPE
- REMOVE EXISTING EQUIPMENT

NEW, EXISTING, & FUTURE WORK

EXISTING PIPING	NEW PIPING	FUTURE PIPING
EXISTING EQUIPMENT	NEW EQUIPMENT	FUTURE EQUIPMENT
EXISTING EQUIPMENT CLEARANCES	NEW EQUIPMENT CLEARANCES	FUTURE EQUIPMENT CLEARANCES

PLUMBING PIPING

W	WASTE ABOVE GRADE
W	WASTE BELOW GRADE
PW	PUMPED WASTE ABOVE GRADE
PW	PUMPED WASTE BELOW GRADE
GW	GREASE WASTE ABOVE GRADE
GW	GREASE WASTE BELOW GRADE
D	DRAIN (CONDENSATE/INDIRECT)
V	VENT
CW	COLD WATER
HW	HOT WATER
RHW	RECIRCULATING HOT WATER
TW	TEMPERED WATER
ICW	INDUSTRIAL COLD WATER
IHW	INDUSTRIAL HOT WATER
WW	WELL WATER

PLUMBING SPECIALITIES

- CLEANOUT
- FLOOR CLEANOUT
- CLEANOUT TO GRADE
- WALL CLEANOUT
- AREA DRAIN
- CATCH BASIN
- FLOOR DRAIN
- OVERFLOW ROOF DRAIN
- ROOF DRAIN
- TRENCH SHOWER DRAIN
- TRENCH DRAIN
- HOSE BIBB
- G — GROUND HYDRANT
- WALL HYDRANT
- WALL BOX
- FLOOR SINK
- THRUST BLOCK

GENERAL NOTES:

A. THIS IS A STANDARD LEGEND SHEET, THEREFORE, SOME SYMBOLS MAY APPEAR ON THIS SHEET THAT DO NOT APPEAR ON THE DRAWINGS.

SYMBOLS

A	ACCESS PANEL	#	NUMBERED NOTE
	POINT OF CONNECTION	X	REMOVE EXISTING
E	EXISTING TO REMAIN	K	CAP EXISTING / CAP FOR FUTURE
B	BELOW GRADE / FLOOR	R	RELOCATE EXISTING
1	REVISION NUMBER	F	FUTURE

XX-XXX — UNIT NUMBER; FLOOR UNIT IS LOCATED ON; EQUIPMENT TYPE

XXXX-XX-XXXXX — UNIT NUMBER; FLOOR UNIT IS LOCATED ON; EQUIPMENT TYPE

EQUIPMENT

XXX — TAG NUMBER

EQUIPMENT PROVIDED BY OTHERS

XX-XXX / XXX — FIXTURE NUMBER; FIXTURE UNITS; FIXTURE TYPE

FIXTURES

DETAIL NUMBER; SHEET NUMBER; X / XX.XX

DETAIL CALLOUT

SYSTEM TYPE; RISER NUMBER; X / XX

RISER TAG

MISC. FITTINGS & SYMBOLS

- DIRECTION OF FLOW
- DIRECTION OF SLOPE
- PIPE SLEEVE
- REDUCER
- ANCHOR
- ELBOW (90 DEGREE)
- ELBOW (45 DEGREE)
- PIPING CONNECTIONS
- TEE
- JOINT OR COUPLING POINT
- UNION
- FLANGED CONNECTION
- CAP
- PLUG OR BLIND FLANGE
- RISER
- ELBOW UP
- ELBOW DOWN
- TEE UP
- TEE DOWN
- FLEXIBLE HOSE CONNECTOR
- MC — MECHANICAL COUPLING
- HEAT TRACE
- PIPE CONTINUATION

DRAWING SCALE IS REDUCED 50% WHEN SHEET SIZE IS 11" x 17". GRAPHIC SCALE-FOR REFERENCE ONLY. 0 1/4" 1/2" 1" 2"

NO.	DATE	BY	REVISIONS	APP

NO.	DATE	BY	REVISIONS	APP

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TERMINAL RESTROOM REHABILITATION 2026

SYMBOLS, LEGENDS, & ABBREVIATIONS - PLUMBING

SUBMITTED BY	BRIAN FRANCIS
DESIGNED BY	E. WALCZYK
DRAWN BY	C. RICHARDS
CHECKED BY	T. LEWIS
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SHEET NO.	80
TYPE	CD
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DISC. SHT. NO.	P0.01