PLUMBING SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

ABBREVIATIONS

(A)	ABANDON IN PLACE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
&	AND
A	AQUASTAT, ARCHITECT, ANCHOR, AMPHERE
@	AT
BFP	BACKFLOW PREVENTER
BFF	BELOW FINISHED FLOOR
BTUH	BRITISH THERMAL UNITS PER HOUR
BLDG	BUILDING
CV	CHECK VALVE
CO	CLEANOUT
CW	COLD WATER
CD	CONDENSATE DRAIN
CONT.	CONTINUATION
CFH	CUBIC FEET PER HOUR
CFS	CUBIC FEET PER SECOND
(X)	DEMOLISH
DW	DISHWASHER, DOMESTIC WATER
DET	DOMESTIC EXPANSION TANK
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DN	DOWN
DS	DOWNSPOUT
DSN	DOWNSPOUT NOZZLE
D	DRAIN
DFU	DRAINAGE FIXTURE UNIT
DWV	DRAINAGE, WASTE AND VENT
DF	DRINKING FOUNTAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
(E)	EXISTING
FT	FEET
FFE	FINISHED FLOOR ELEVATION
F	FIRE, FAHRENHEIT
FL	FLOOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FV	FLUSH VALVE
'	FOOT, FEET
(F)	FUTURE
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ
HB	HOSE BIBB
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNIT
HWR	HOT WATER RETURN
IN, "	INCHES
IW	INDIRECT WASTE
INV	INVERT ELEVATION
L	LAVATORY
MIN	MINIMUM
MX	MIXING VALVE
MS	MOP SINK
(N)	NEW
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
#	NUMBER
NO.	NUMBER
OD	OVERFLOW DRAIN, OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PLBG	PLUMBING
P	PLUMBING, PUMP
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP, PLUMBING DEMOLITION, PUMPED DISCHARGE
PRV	PRESSURE REDUCING VALVE
QTY	QUANTITY
RWL	RAINWATER LEADER
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
(R)	RELOCATE / RELOCATED LOCATION
RD	ROOF DRAIN
SAN	SANITARY
SB	SERVICE BOX
SHT	SHEET
SA	SHOCK ARRESTOR
SOV	SHUT OFF VALVE
S, SK	SINK
SF	SQUARE FEET
SD	STORM DRAIN
SP	SUMP PUMP, STATIC PRESSURE
TEMP	TEMPERATURE
TP	TRAP PRIMER, TOTAL PRESSURE
TYP	TYPICAL
U, UR	URINAL
V	VACUUM, VENT, VOLT
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
W	WASTE
WC	WATER COLUMN, WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WH	WATER HEATER, WALL HYDRANT
WSFU	WATER SUPPLY FIXTURE UNIT
W/	WITH

GENERAL

- CONTINUATION
- XX-X / LOCATION — EQUIPMENT IDENTIFICATION
- EXTENT OF DEMOLITION
- X — FIXTURE TAG (LEVEL BELOW FIXTURE)
- (X) — KEYED NOTE
- POINT OF CONNECTION
- DEMOLISH
- EXISTING WORK
- NEW WORK
- PIPE OR CONDUIT BELOW GRADE

PIPING FITTINGS

- AP — ACCESS PANEL
- AQUASTAT
- BLIND FLANGE
- CAP
- COTG — CLEANOUT TO GRADE
- CONCENTRIC REDUCER
- DSN — DOWNSPOUT NOZZLE
- ECCENTRIC REDUCER
- FCO — FLOOR CLEANOUT
- FD — FLOOR DRAIN
- FS — FLOOR SINK
- FLOW DIRECTION
- HOSE BIBB / WALL HYDRANT
- OD — OVERFLOW ROOF DRAIN
- PIPE DROP
- PIPE RISE
- PUMP
- RD — ROOF DRAIN
- SHOCK ABSORBER / WATER HAMMER ARRESTOR
- STRAINER
- T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- VTR — VENT THROUGH ROOF
- WCO — WALL CLEANOUT

PIPING SYSTEMS

- COLD WATER PIPING
- CA — COMPRESSED AIR PIPING
- D — CONDENSATE / INDIRECT DRAIN PIPING
- HOT WATER PIPING
- HOT WATER RETURN PIPING
- 2#G — NATURAL GAS PIPING, 2 LB
- G — NATURAL GAS PIPING, 7" WC PRESSURE
- OD — OVERFLOW DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
- SANITARY VENT PIPING
- SANITARY WASTE OR SOIL PIPING ABOVE GRADE OR FINISHED FLOOR
- SANITARY WASTE OR SOIL PIPING BELOW GRADE OR FINISHED FLOOR
- SD — STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
- SD — STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR
- TP — TRAP PRIMER PIPING

VALVES

- BFP — BACKFLOW PREVENTER
- CHECK VALVE
- SHUTOFF VALVE, GENERAL

SHEET INDEX

P0.01	COVER SHEET - PLUMBING
P0.02	SCHEDULES - PLUMBING
P1.10A	LEVEL 01 FLOOR PLAN SECTORS - PLUMBING
P1.11A	ROOF PLAN SECTORS - PLUMBING
P6.01	DETAILS - PLUMBING

PROJECT 2016-0289
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COVER SHEET - PLUMBING
Urban Forestry Maintenance Facility

PROJECT MANAGER: Robin Laughlin
DRAWN BY: **Author**
SCALE: REFERENCE DETAILS
DATE: **10.04.2019**

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DATE	DESCRIPTION	BY

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P0.01

Job No. **4655-01**

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PLUMBING FIXTURE SCHEDULE

			BASIS OF DESIGN			CONNECTION				
SYMBOL	FIXTURE TYPE	DESCRIPTION	MFR	MODEL	ACCESSORIES	W	V	CW	HW	NOTES
DF-1	DRINKING FOUNTAIN	WALL MOUNTED, DOUBLE BOWL, 18 GAUGE STAINLESS STEEL, SATIN FINISH, VANDAL RESISTANT BUBBLER, FRONT BUSHBUTTON. PROVIDE WITH WALL PLATE AND BOTTLE FILLER.	ELKAY	LZSTLDDWSSK		2"	1-1/2"	1/2"	--	BOTTLE FILLER, VERIFY RIGHT OR LEFT HAND LOW BOWL CONFIGURATION
DSB-1	DOWNSPOUT BOOT	CAST IRON BODY AND STRAP, 5-INCH X 4-INCH RECTANGULAR	JR SMITH	1786		5X4"*	--	--	--	
EEW-1	EMERGENCY EYEWASH	WALL MOUNTED, ABS PLASTIC BOWL, IN-LINE STRAINER, CHROME PLATED TRAP AND TAILPIECE	HAWS	7260BT-7270BT	MIXING VALVE: SEE PLUMBING DEVICES SCHEDULE	2"	1-1/2"	1/2"	1/2"	
EEW/ESH-1	EMERGENCY SHOWER / EYEWASH	BARRIER FREE, FLOOR MOUNTED, ABS PLASTIC EYEWASH BOWL, SHOWER HEAD, WATER STRAINER FOR EYEWASH	HAWS	8309WC	MIXING VALVE: SEE PLUMBING DEVICES SCHEDULE ALARM	3"	2"	1"	1"	
FD-1	FLOOR DRAIN (FINISHED FLOORS / SHOWERS)	CAST IRON BODY, FLASHING COLLAR, 6-INCH ADJUSTABLE NICKEL BRONZE STRAINER HEAD, TRAP PRIMER	JR SMITH	2005Y-A-06--NB	PRIMER TAP ON P-TRAP.	3"	2"	--	--	
FD-2	FLOOR DRAIN (UNFINISHED FLOORS / MECHANICAL ROOMS)	CAST IRON BODY, FLASHING COLLAR, 8-1/2-INCH ROUND ADJUSTABLE TOP, BAR GRATE, SEDIMENT BUCKET, TRAP PRIMER	JR SMITH	2350Y-MGB	PRIMER TAP ON P-TRAP.	3"	2"	--	--	
FS-1	FLOOR SINK	CAST IRON FLANGED RECEPTOR, SEEPAGE HOLES, ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM, 3/4-GRATE, ALUMINUM DOME BOTTOM STRAINER, 6-INCH DEEP	JR SMITH	3140Y-13	PRIMER TAP ON P-TRAP.	3"	2"	--	--	
HB-1	HOSE BIBB	EXPOSED, MILD CLIMATE, ANTI-SIPHON, CHROME PLATED, DOUBLE CHECK BACKFLOW PREVENTER	WOODFORD	79		--	--	3/4"	--	
L-1	LAVATORY	SINK BASIN INTEGRAL WITH COUNTERTOP		0476.028	FAUCET (GOOSENECK WRISTBLADE): CHICAGO 895-317E2805-5ABCP	2"	1-1/2"	1/2"	1/2"	
SH-1	SHOWER	BARRIER FREE, ONE PIECE, 60-INCHES X 32-INCHES INSIDE DIMENSIONS, 71-3/4-INCHES HIGH, GEL-COAT FINISH, ANTI-SLIP FLOOR, CURTAIN ROD, GRAB BARS, FOLD DOWN SEAT.	COMFORT DESIGNS	SSS6037BF 3P L-BAR	SHOWER VALVE (ADA, SINGLE HANDLE, HAND SHOWER, 1.6-GPM, INTEGRAL CHECKS, INTEGRAL STOPS): ZURN Z7300-SS-MT-HW-H9	2"	1-1/2"	1/2"	1/2"	PROVIDE RECESSED SLAB. SHOWER FLOOR SHALL BE 1/4" ABOVE FINISHED FLOOR MAXIMUM
TD-1	TRENCH DRAIN	MODULAR POLYMER CONCRETE PRE-CAST SECTIONS WITH HEAVY-DUTY LOCK-IN-PLACE FRAME AND ADA COMPLIANT GRATE.	JR SMITH	9877-ADA	GRATE (EXTRA HEAVY DUTY - SLOTTED DUCTILE IRON GRATE WITH LOCKING DEVICE): JR SMITH 9870-478-ADA. PROVIDE PRIMER TAP ON P-TRAP.	4"	2"	---	---	
WB-1	WASHING MACHINE OUTLET BOX	FIRE RATED ABS BOX/FRAME, NO-LEAD VALVES WITH WATER HAMMER ARRESTORS, 1/2" FEMALE SWEAT CONNECTIONS	SIOUX CHIEF	696RG2313MF		2"	1-1/2"	1/2"	1/2"	
WC-1	WATER CLOSET	WALL MOUNTED, VITREOUS CHINA, TOP SPUD, FLUSHOMETER BARRIER FREE, MOUNTING HEIGHT	AMERICAN STANDARD	2257.101	FLUSH VALVE (MANUAL, 1.28 GPF, PISTON): SLOAN CROWN 111-1.28 SEAT (BARRIER FREE, COMMERCIAL WEIGHT, EXTRA HEAVY-DUTY SOLID PLASTIC WITH STAINLESS STEEL CHECK HINGE): BEMIS 1655SSC-000	4"	2"	1"	--	
WH-1	HOSE BIBB	EXPOSED, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING, CHROME PLATED ASSEMBLY, DOUBLE CHECK BACKFLOW PREVENTER	WOODFORD	67-P		--	--	3/4"	--	

NOTES:
1 SEE ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS AND LOCATIONS.
* UNLESS NOTED OTHERWISE ON DRAWINGS

PLUMBING DEVICES SCHEDULE

			BASIS OF DESIGN			CONNECTION				
SYMBOL	FIXTURE TYPE	DESCRIPTION	MFR	MODEL	ACCESSORIES	W	V	CW	HW	NOTES
CDT-1	CONDENSATE NEUTRALIZING TUBE	2 GPH, PVC TUBING FILLED WITH 3/8" AGGREGATE AND 100% CALCIUM CARBONATE, SUPPORT BRACKETS, INLET AND OUTLET HOSE BARB FITTING.	JM BOILER WORKS	JM-3		3/4"	---	---	---	
DET-1	DOMESTIC WATER EXPANSION TANK - IAPMO	4.4 GALLON CAPACITY, WELDED STEEL CONSTRUCTION, DIAPHRAGM TYPE, SEPARATE WATER RESERVOIR, PRE-PRESSURIZED, IAPMO CERTIFIED.	AMTROL THERM-X-TROL	ST-12		---	---	3/4"	---	
EMV-1	EMERGENCY MIXING VALVE - EYEWASHES	BRONZE BODY, INTERNAL COLD WATER BYPASS, ADJUSTABLE TEMEPRATURE LIMIT STOP, CHECK STOPS, DIAL THERMOMETER, 4 GPM AT 30 PSI.	ACORN CONTROLS	ET71-1		---	---	1/2"	1/2"	
LMV-1	LAVATORY MIXING VALVE	THERMOSTATIC MIXING VALVE, ASSE 1070 COMPLIANT, INTEGRAL CHECK VALVES, LEAD FREE: WATTS LFMMV	WATTS	LFMMV		---	---	1/2"	1/2"	
MMV-1	MASTER MIXING VALVE	FULL PACKAGE SYSTEM WITH HIGH/LOW FLOW MIXING VALVES, GAUGES, PRV(S), VALVES, UNIONS AND OTHER CONNECTIONS, EXPOSED. .1 GPM TO 15 GPM AT 45 PSI MAX FALLOFF. SYSTEM PEAK = 6 GPM AT 10 PSI FALLOFF.	ACORN CONTROLS	MV17-1		---	---	1/2"	1/2"	

NOTES:

MISCELLANEOUS EQUIPMENT SCHEDULE

			BASIS OF DESIGN			GAS DATA	ELECTRICAL					
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	MFR	MODEL	CAPACITY	INPUT (MBH)	VOLTS	PH	AMPS	WATTS	HP	COMMENTS
AC-1	AIR COMPRESSOR	ALL	QUINCY	2103DS12VCB23	35 ACFM @ 175-PSIG	NA	230	3			10	
AD-1	AIR DRYER	ALL	ZEKS	HIT35	35 ACFM	NA	115	1	15			GROUNDED CORD CONNECTION
PD-1	AUTOMATIC DRAIN	ALL	AIR SYSTEM PRODUCTS	PD7020	NA	NA	110	1				GROUNDED CORD CONNECTION

NOTES:

PUMP SCHEDULE

			BASIS OF DESIGN					ELECTRICAL					
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	MFR	MODEL	FLOW RATE (GPM)	HEAD (FT H2O)	RPM	VOLTS	PH	AMPS	WATTS	HP	COMMENTS
CP-1	CIRCULATION PUMP	ALL	GRUNDFOS	98126808	10	38	VARIES	115	1			1/2	

NOTES:

WATER HEATER SCHEDULE

			BASIS OF DESIGN		TANK CAPACITY (GALLONS)	GAS DATA	ELECTRICAL				
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	MFR	MODEL		INPUT (MBH)	VOLTS	PH	AMPS	KW	COMMENTS
GWH-1	GAS WATER HEATER	ALL	AO SMITH	BTH-150	100	150	120	1	5		

NOTES:

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SCHEDULES - PLUMBING
Urban Forestry Maintenance Facility
PROJECT MANAGER: Robin Laughlin
DRAWN BY: Author
SECTION:
SCALE: REFERENCE DETAILS
DATE: 10.04.2019

REVISIONS

DATE	DESCRIPTION	BY
2	Revision 2	8/7

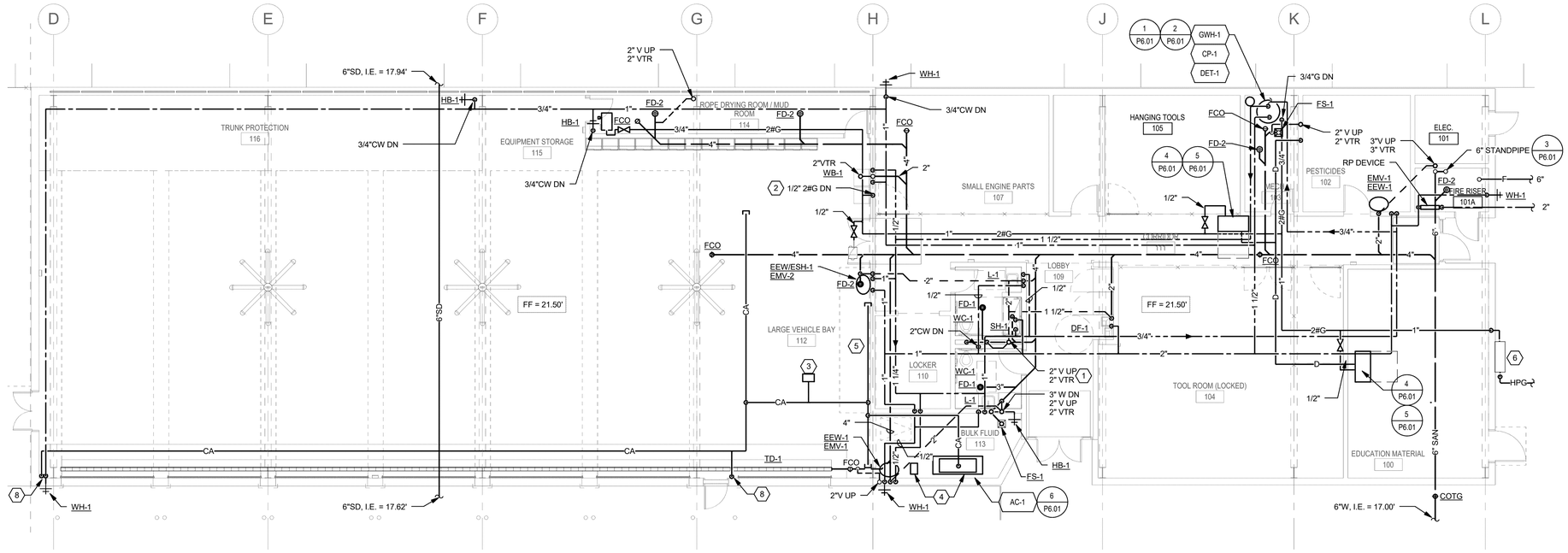
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P0.02

Job No. 4655-01

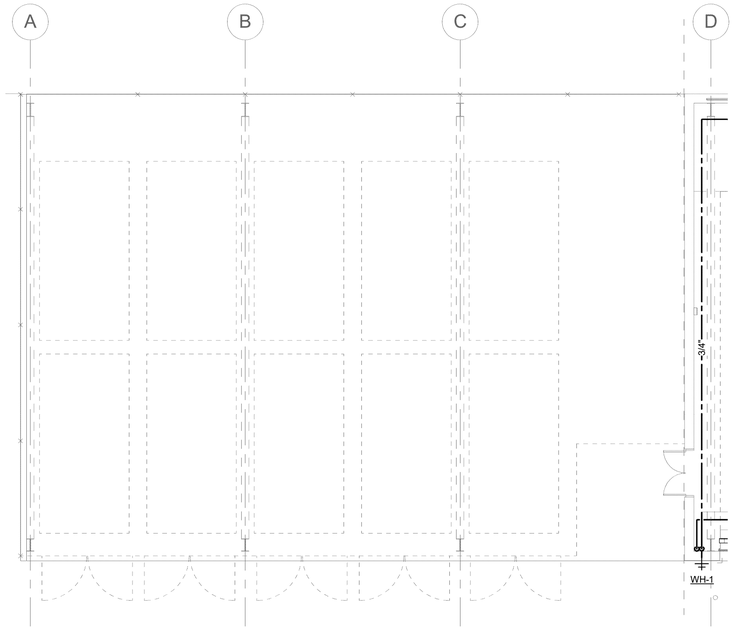
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1 LEVEL 1 PLUMBING PLAN - SECTOR A

0' 4' 8' 16'
1/8" = 1'-0"



2 LEVEL 1 PLUMBING PLAN - SECTOR B

0' 4' 8' 16'
1/8" = 1'-0"

SHEET KEYNOTES

1. MANIFOLD VENTS TO THE EAST WALL. PROVIDE 2" VTR.
2. PROVIDE SOV, REGULATOR, AND GAS FLEX TO DRYER.
3. CEILING-MOUNTED AIR HOSE REELS.
4. 5HP RECIP AIR COMPRESSOR WITH AIR DRYER AT MECHANICAL PLATFORM.
5. PROVIDE 3/4" CA HEADER ABOVE WORK TABLE. PROVIDE 1/2" OUTLET AT 3-FEET INTERVALS.
6. NW NATURAL METER - 2# DELIVERY.
7. CONNECT FS-1 VENT TO 2"VTR ON MEZZANINE LEVEL.
8. PROVIDE AIR OUTLET.

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LEVEL 01 FLOOR PLAN SECTORS - PLUMBING
Urban Forestry Maintenance Facility

PROJECT MANAGER: Robin Laughlin
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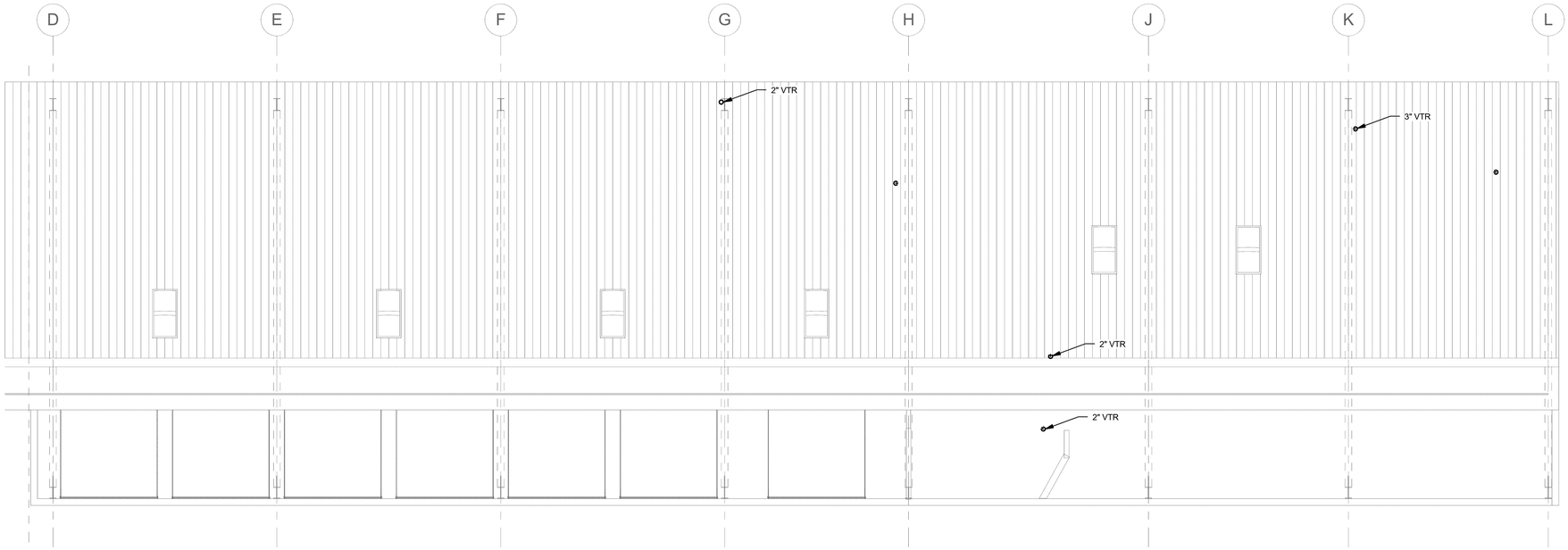
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P1.10A

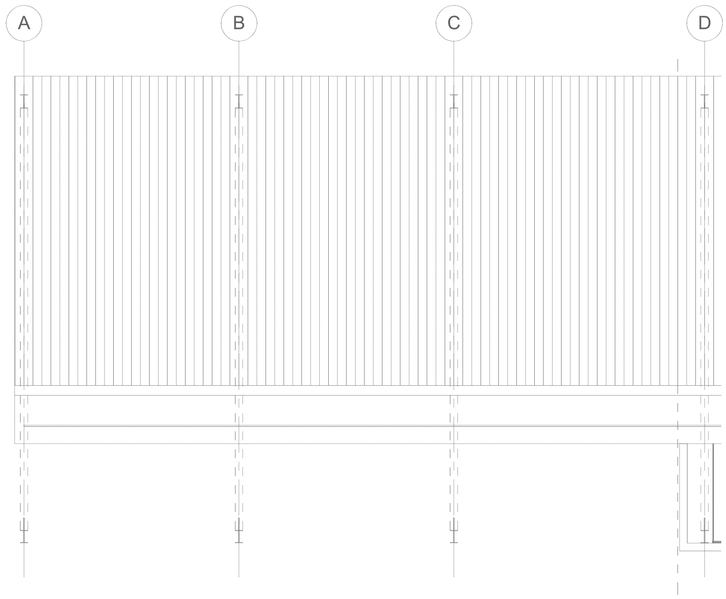
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1 ROOF PLUMBING PLAN - SECTOR A

0' 4' 8' 16'

1/8" = 1'-0"



2 ROOF PLUMBING PLAN - SECTOR B

0' 4' 8' 16'

1/8" = 1'-0"

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ROOF PLAN SECTORS - PLUMBING
Urban Forestry Maintenance Facility

PROJECT MANAGER: Robin Laughlin
DRAWN BY: **Author** SECTION:
DATE: **10.04.2019** SCALE: REFERENCE DETAILS

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P1.11A

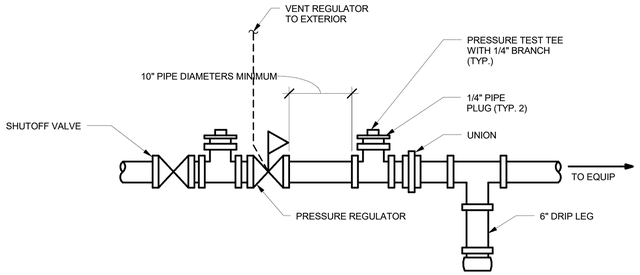
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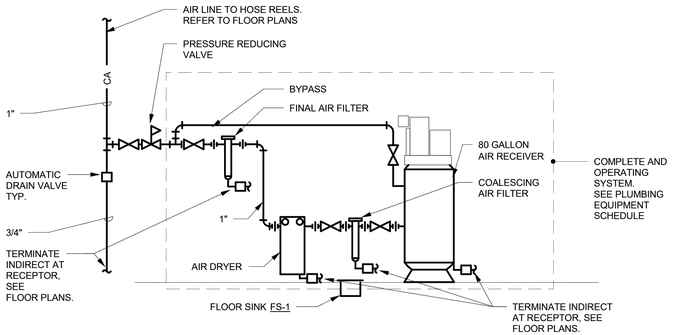


4 GAS CONNECTION

NO SCALE

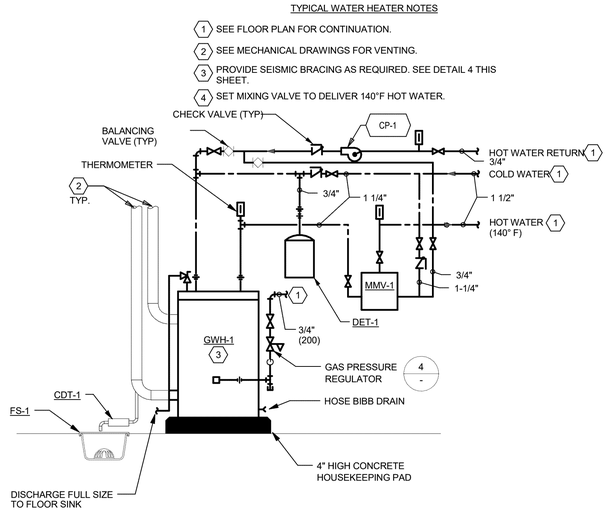
5 NOT USED

NO SCALE



6 COMPRESSED AIR PIPING DIAGRAM

NO SCALE

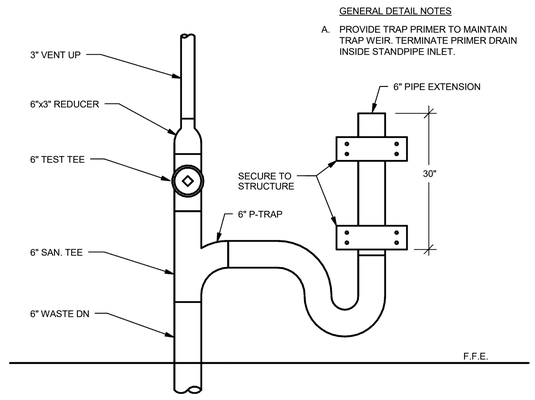


1 WATER HEATER

NO SCALE

2 NOT USED

NO SCALE



3 STANDPIPE DETAIL

NO SCALE

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Urban Forestry Maintenance Facility

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