PLUMBING ABBREVIATIONS

ASC	ABOVE SUSPENDED CEILING
AFF	ABOVE FINISHED FLOOR
AG	ABOVE GRADE
AC	AIR COMPRESSOR
AD	AREA DRAIN
BAV	BALANCING VALVE
BC	BALANCING COCK
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BT	BATHTUB
BV	BALL VALVE
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
CB	CATCH BASIN
CEB	CONCRETE EQUIPMENT BASE
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CP	CIRCULATING PUMP
CS	CLINICAL SINK
CO	CLEANOUT
CW	COLD WATER
CV	COMMON VENT
CWV	COMBINATION WASTE AND VENT
CWFU	COLD WATER FIXTURE UNITS
CKV	CHECK VALVE
D	DRAIN LINE
DDCV	DOUBLE DETECTOR CHECK VALVE
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DS	DOWNSPOUT
DTF	DOWN THRU FLOOR
DN	DOWN
DI	DUCTILE IRON
DSN	DOWN SPOUT NOZZLE
DTF	DOWN THROUGH FLOOR
DU	DISTRIBUTION UNIT (TRAP PRIMER)
DWH	DOMESTIC WATER HEATER
DW FRP	DOUBLE WALL FIBERGLASS REINFORCED PIPE
DWV	DRAIN-WASTE-VENT
EC	ELECTRICAL CONTRACTOR
EO	ENGINE OIL
ETP	ELECTRONIC TRAP PRIMING MANIFOLD
EQ	EQUIPMENT
EST	EMERGENCY STORM SEWER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST.	EXISTING
ET	EXPANSION TANK
EW/ES	EYE WASH/EMERGENCY SHOWER
F	FAHRENHEIT DEGREES
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FH	FIRE HYDRANT
FL	FLUID LUBRICATION
FP	FIRE PROTECTION PIPING
FS	FLOOR SINK
FT	FOOTING TILE
FRP	FIBERGLASS REINFORCED PIPE
G	GAS
GC	GENERAL CONTRACTOR
GL,V	GLOBE VALVE
GM	GAS METER
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
GWH	GAS WATER HEATER
GV	GATE VALVE
HB	HOSE BIBB
HC	HVAC CONTRACTOR
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNITS
HWCP	HOT WATER CIRCULATING PUMP
HWR	HOT WATER RECIRCULATI0N
HP	HORSEPOWER
HPHW	HIGH PRESSURE HOT WATER
HWW	HIGH PRESSURE WASTE WATER (REUSE)
IFGC	INTERNATIONAL FUEL GAS CODE
INV	INVERT ELEVATION
IV	INDIVIDUAL VENT
KS	KITCHEN SINK
LAV	LAVATORY
LT	LAUNDRY TUB
LPD	LOW POINT DRAIN
M	METER
MH	MANHOLE
MSB	MOP SERVICE BASIN
MV	MIXING VALVE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OI	OIL INTERCEPTOR
P	PUMP
PCAC	PIPE CONNECTION AT CEILING
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PET	PLUMBING EXPANSION TANK
PRV	PRESSURE REDUCING VALVE
RD	ROOF DRAIN
RV	RELIEF VENT
RWL	RAIN WATER LEADER
SAN	SANITARY SEWER
SD	SCRUBBER DRAIN
SF	SQUARE FOOT
SH	SHOWER
SK	SINK
SP	SUMP PUMP
SS	SERVICE SINK
ST	STORM SEWER
STR	STRAINER
TP	TRAP PRIMER
TPV	TRAP PRIMER VALVE
TMV	THERMOSTATIC MIXING VALVE
TW	TEMPERED WATER
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UST	UNDERGROUND STORAGE TANK
V	VENT
VB	VACUUM BREAKER
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WG	WATER GAUGE
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WM	WATER METER
WSV	WASTE STACK VENT
WV	WET VENT
WW	WASTE WATER (REUSE)
YCO	YARD CLEANOUT
YH	YARD HYDRANT

PLUMBING SYMBOLS - PIPING DESIGNATIONS

CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER CIRCULATING
PHW	PRESSURIZED HOT WATER
TW	TEMPERED WATER
TP	TRAP PRIMER
SAN	SANITARY SEWER
O/W SAN	OIL/ WATER SANITARY SEWER
V	VENT
O/W VENT	OIL/WATER VENT
ST	STORM SEWER
D	DRAIN
PD	PUMP DISCHARGE
GAS	NATURAL GAS

PLUMBING SYMBOLS - VALVES AND SPECIALTIES

	SHUT-OFF VALVE (GATE, BALL, ETC.)
(X)	BALANCING VALVE (X INDICATES GPM)
	SHUT-OFF VALVE IN RISER
	CHECK VALVE
	STRAINER
	GLOBE VALVE
	PRESSURE REDUCING VALVE
	MIXING VALVE
X	RELIEF VALVE (X INDICATES P - PRESSURE; T - TEMPERATURE; PT - COMBINATION PRESS/TEMP)
	BRANCH CONNECTION - BOTTOM
	BRANCH CONNECTION - TOP
	ELBOW - TURNED DOWN
	ELBOW - TURNED UP
	CAP
FCO / WCO	CLEANOUT (FLOOR/WALL)
	FLOOR DRAIN
	ROOF DRAIN
WH	WALL HYDRANT
HB	HOSE BIBB
	REDUCER
	UNION
	PIPE GUIDE (PG)
	PIPE ANCHOR (PA)
WHA-X	WATER HAMMER ARRESTOR (X INDICATES PDI SIZE)
	FLEXIBLE CONNECTOR
	DIRECTION OF FLOW
P	DIRECTION OF DOWNWARD PITCH
P	PRESSURE GAUGE
	THERMOMETER
PT	PRESSURE/TEMPERATURE TAP
M / M	WATER METER/GAS METER
	CIRCULATING PUMP
WC-1	PLUMBING FIXTURE No. (SEE SCHEDULE)
BFP-1	PLUMBING SPECIALITY No. (SEE SCHEDULE)
DWH-1	PLUMBING EQUIPMENT No. (SEE SCHEDULE)
2 / P-1	DRAWING SECTION NUMBER / DWG. WHERE FOUND
2 / P-1	DRAWING DETAIL NUMBER / DWG. WHERE FOUND
105	ROOM NUMBER

GENERAL NOTES

1. THIS LEGEND SHEET IS FOR THE PLUMBING CONTRACTOR REFERENCE ONLY. NOT ALL SYMBOLS AND/OR ABBREVIATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/OR EXCLUSION OF ANY PARTICULAR ITEM FROM THE PROJECT.
2. THE PLANS ARE DIAGRAMMATIC AND INDICATE ONLY THE SIZE AND GENERAL ARRANGEMENT OF PIPING AND EQUIPMENT. EXACT LOCATION OF ALL ELEMENTS SHALL BE DETERMINED AS WORK PROGRESSES, IN COOPERATION AND COORDINATION WITH THE WORK OF ALL OTHER TRADES. IT IS NOT INTENDED TO SHOW EVERY ITEM OF WORK OR MINOR PIECE OF EQUIPMENT, BUT THE CONTRACTOR SHALL FURNISH AND INSTALL WITHOUT ADDITIONAL REMUNERATION ANY COMPONENT NECESSARY TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.
3. ITEMS OF WORK OR EQUIPMENT SHOWN ON THE DRAWINGS ONLY, OR CALLED FOR IN THE SPECIFICATIONS ONLY, SHALL BE FURNISHED AND INSTALLED IN THE SAME MANNER AS IF THEY APPEARED ON BOTH THE DRAWINGS AND SPECIFICATIONS.
4. DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATIONS, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES IN PIPING AND LOCATION OF EQUIPMENT, ETC. TO ACCOMMODATE WORK WITH THAT OF OTHER CONTRACTORS.
5. INSTALL EQUIPMENT AND PIPING TO AVOID INTERFERENCE WITH THE OPERATION OR SERVICING AND MAINTENANCE OF EQUIPMENT.
6. PIPES PENETRATING FIRE WALLS AND FLOORS SHALL BE FIRESTOPPED AS SPECIFIED. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE WALL AND FLOOR LOCATIONS.
7. ALL PHYSICAL ATTRIBUTES OF EQUIPMENT AND DEVICES ARE BASED ON THOSE MANUFACTURERS LISTED IN THE SPECIFICATIONS AND/OR THE EQUIPMENT SCHEDULES. THE RESPECTIVE CONTRACTORS ARE RESPONSIBLE FOR ALL CHANGES BROUGHT ABOUT BY USE OF ITEMS BY OTHER MANUFACTURERS. THE ARCHITECT/ENGINEER HAS RESERVED THE RIGHT TO REJECT ITEMS BY OTHER MANUFACTURERS IF THOSE ITEMS DO NOT MATCH THE PHYSICAL ATTRIBUTES OF THE MANUFACTURERS LISTED.
8. COMPLY WITH THE VIRGINIA IPC 2009 PLUMBING CODE, VIRGINIA BUILDING CODES, VIRGINIA STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND OTHER APPLICABLE CODES.
9. PROVIDE ACCESS DOORS IN GYPSUM BOARD CEILINGS AT ALL ISOLATION VALVES FOR VALVE ACCESS.

GLTC

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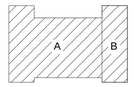

KEY PLAN

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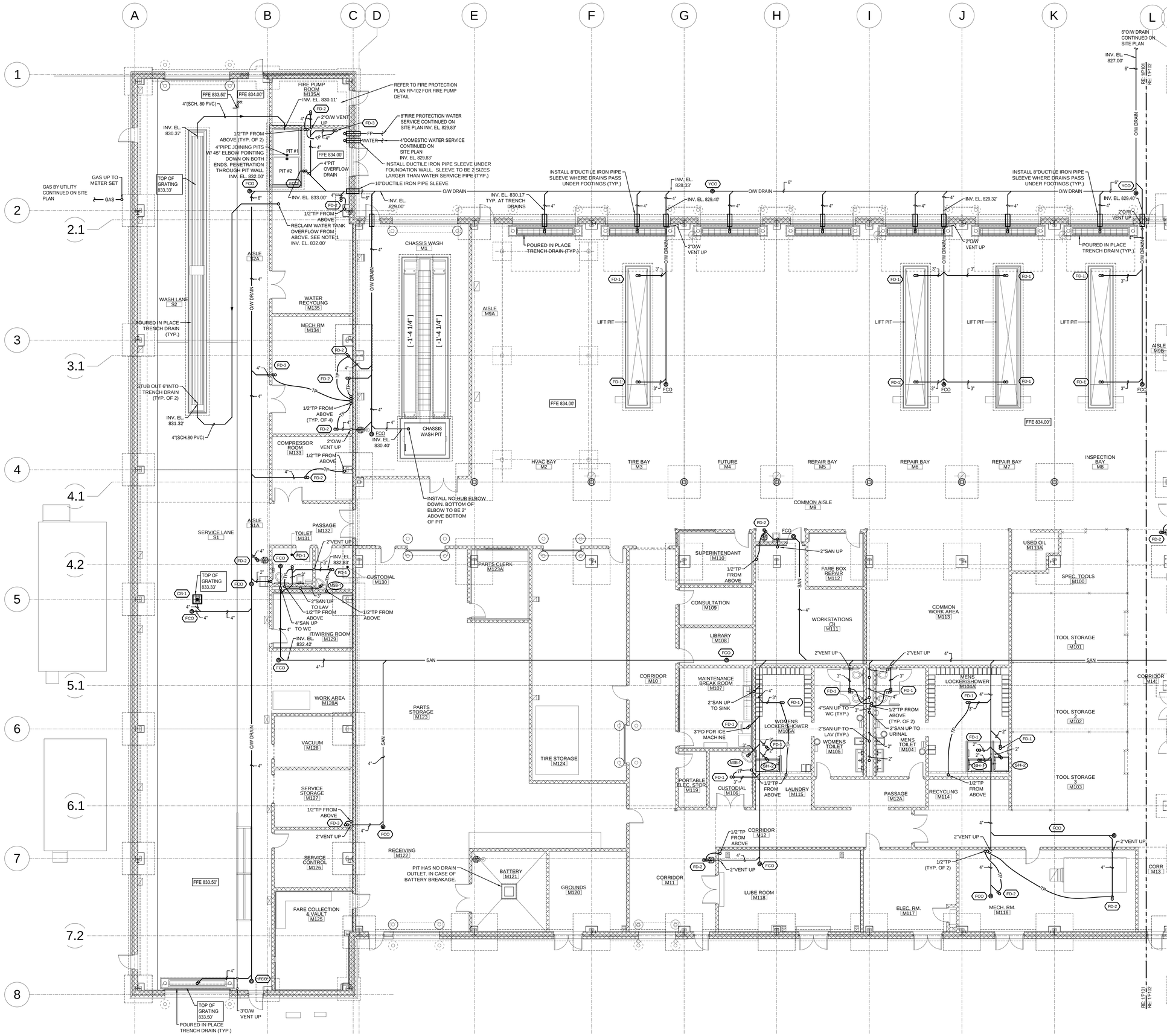
COMMONWEALTH OF VIRGINIA
RAYMOND F. JOHNSON, II
Lic. No. 0402012235
PROFESSIONAL ENGINEER

Revision Number	Issued by	Revision Description	Revision Date

DWG. TITLE

PLUMBING SYMBOLS, NOTES AND ABBREVIATIONS

DATE	09/24/2014
SCALE	AS NOTED
DWN.	TIP
CHK.	CRL
PROJ. No.	444505
DWG. No.	P001



1 PARTIAL FLOOR PLUMBING PLAN - AREA A
SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES:

1. BUS WASH EQUIPMENT AND ABOVEGROUND PIPING TO BE INSTALLED BY BUS WASH MANUFACTURE TANK OVERFLOW DRAIN LOCATIONS TO BE COORDINATED WITH FINAL EQUIPMENT LAYOUT.

2. WATER SUPPLY TO BUS WASH EQUIPMENT FROM OUTLET OF RPZ INSTALLED BY BUS WASH MANUFACTURE.

GLTC

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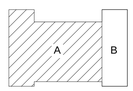

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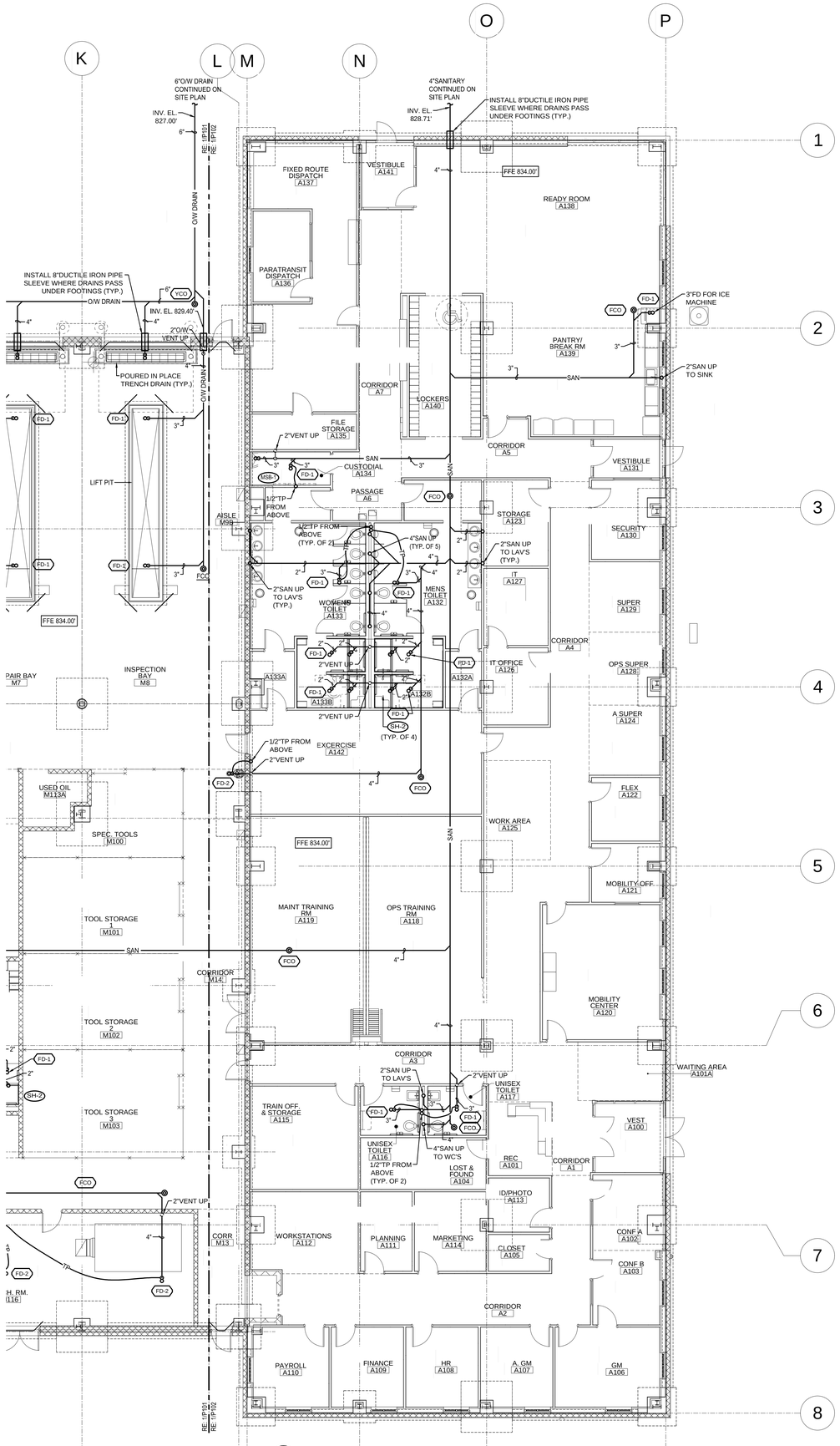
Revision Number	Issued by	Revision Description	Revision Date

DWG. TITLE

PARTIAL FLOOR UNDER SLAB PLUMBING PLAN AREA A

DATE	09/24/2014
SCALE	AS NOTED
DWN.	TIP
CHK.	CRL
PROJ. No.	444505
DWG. No.	P101



1 PARTIAL FLOOR PLUMBING PLAN - AREA B
SCALE: 1/8" = 1'-0"

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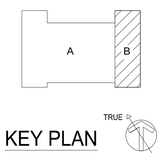
KEY PLAN



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COMMONWEALTH OF VIRGINIA
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Lic. No. 0402035
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Revision Number	Issued by	Revision Description	Revision Date

DWG. TITLE

PARTIAL FLOOR UNDER SLAB PLUMBING PLAN AREA B

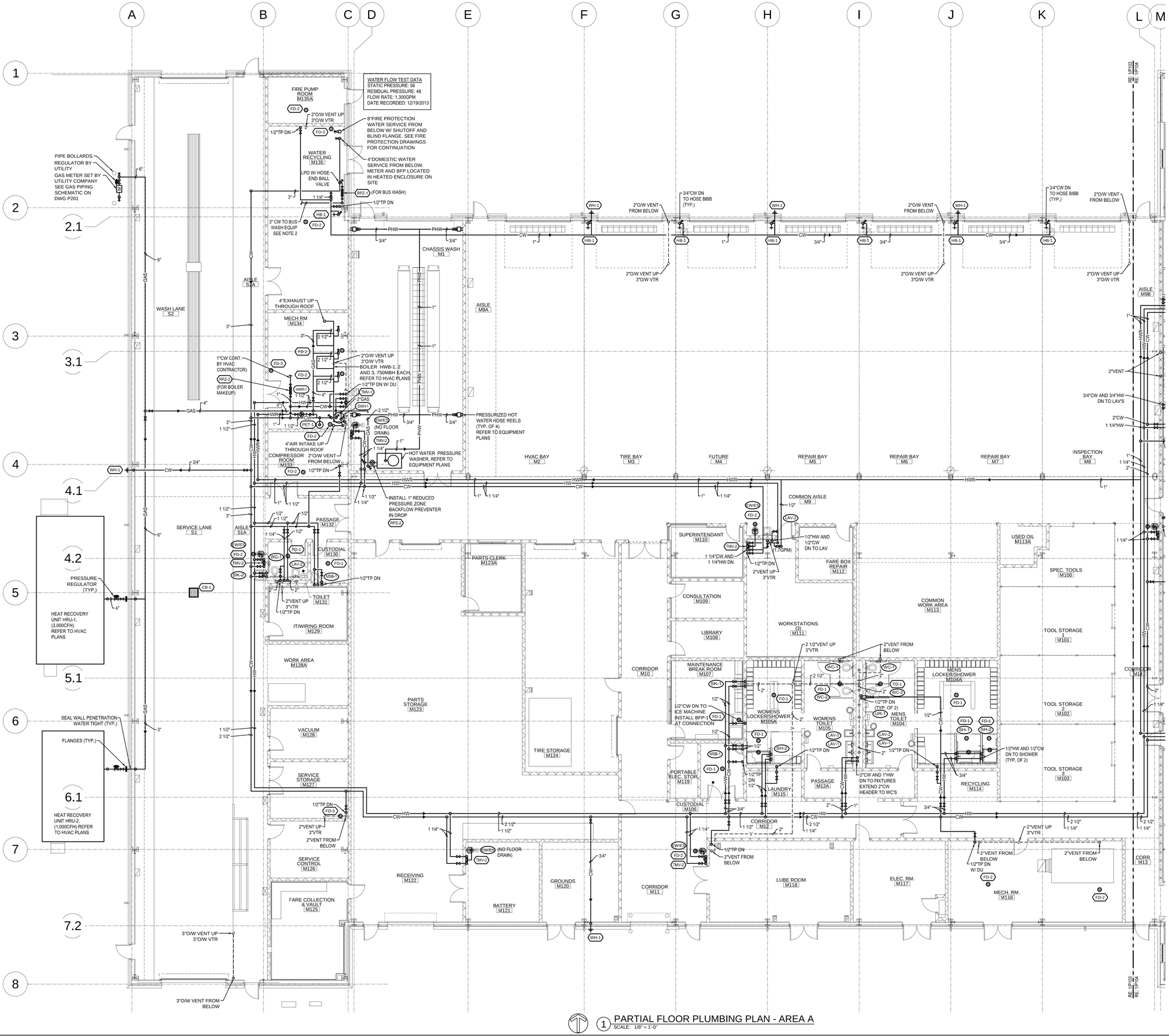
DATE	09/24/2014
SCALE	AS NOTED
DWN.	TIP
CHK.	CRL
PROJ. No.	444505
DWG. No.	P102

CONSTRUCTION NOTES:

1. BUS WASH EQUIPMENT AND ABOVEGROUND PIPING TO BE INSTALLED BY BUS WASH MANUFACTURE TANK OVERFLOW DRAIN LOCATIONS TO BE COORDINATED WITH FINAL EQUIPMENT LAYOUT.

2. WATER SUPPLY TO BUS WASH EQUIPMENT FROM OUTLET OF RPZ INSTALLED BY BUS WASH MANUFACTURE.

3. INSTALL ACCESS DOORS IN WALLS OR CEILINGS FOR ISOLATION VALVES AND TRAP PRIMER VALVES.



1 PARTIAL FLOOR PLUMBING PLAN - AREA A
SCALE: 1/8" = 1'-0"

GLTC

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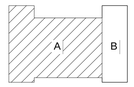

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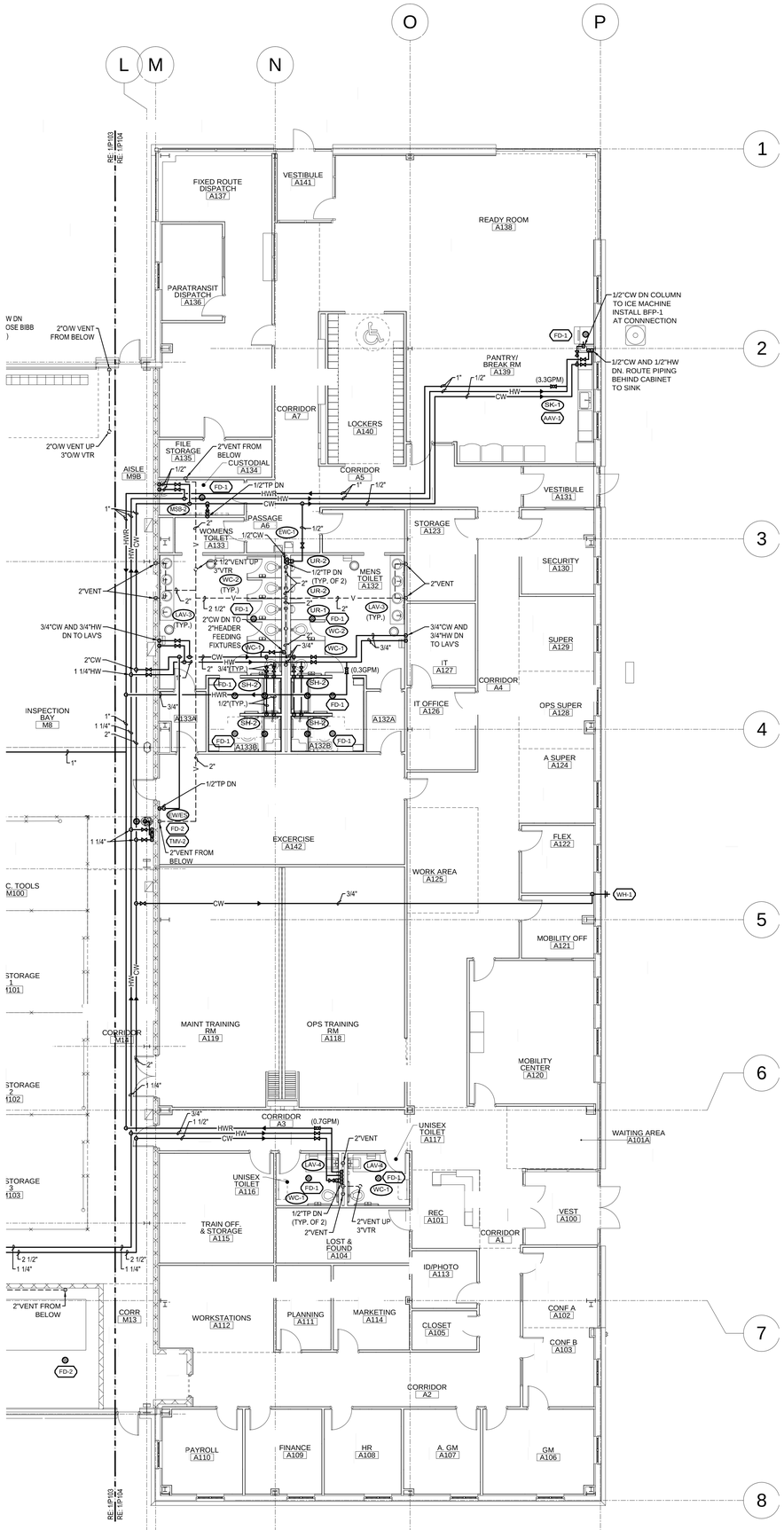
PARTIAL FLOOR PLUMBING PLAN AREA A

DATE	09/24/2014
SCALE	AS NOTED
DWN.	TIP
CHK.	CRL
PROJ. No.	444505
DWG. No.	P103



1 PARTIAL FLOOR PLUMBING PLAN - AREA B
SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES:

1. INSTALL ACCESS DOORS IN WALLS OR CEILINGS FOR ISOLATION VALVES AND TRAP PRIMER VALVES.

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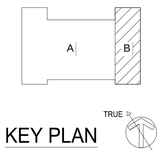

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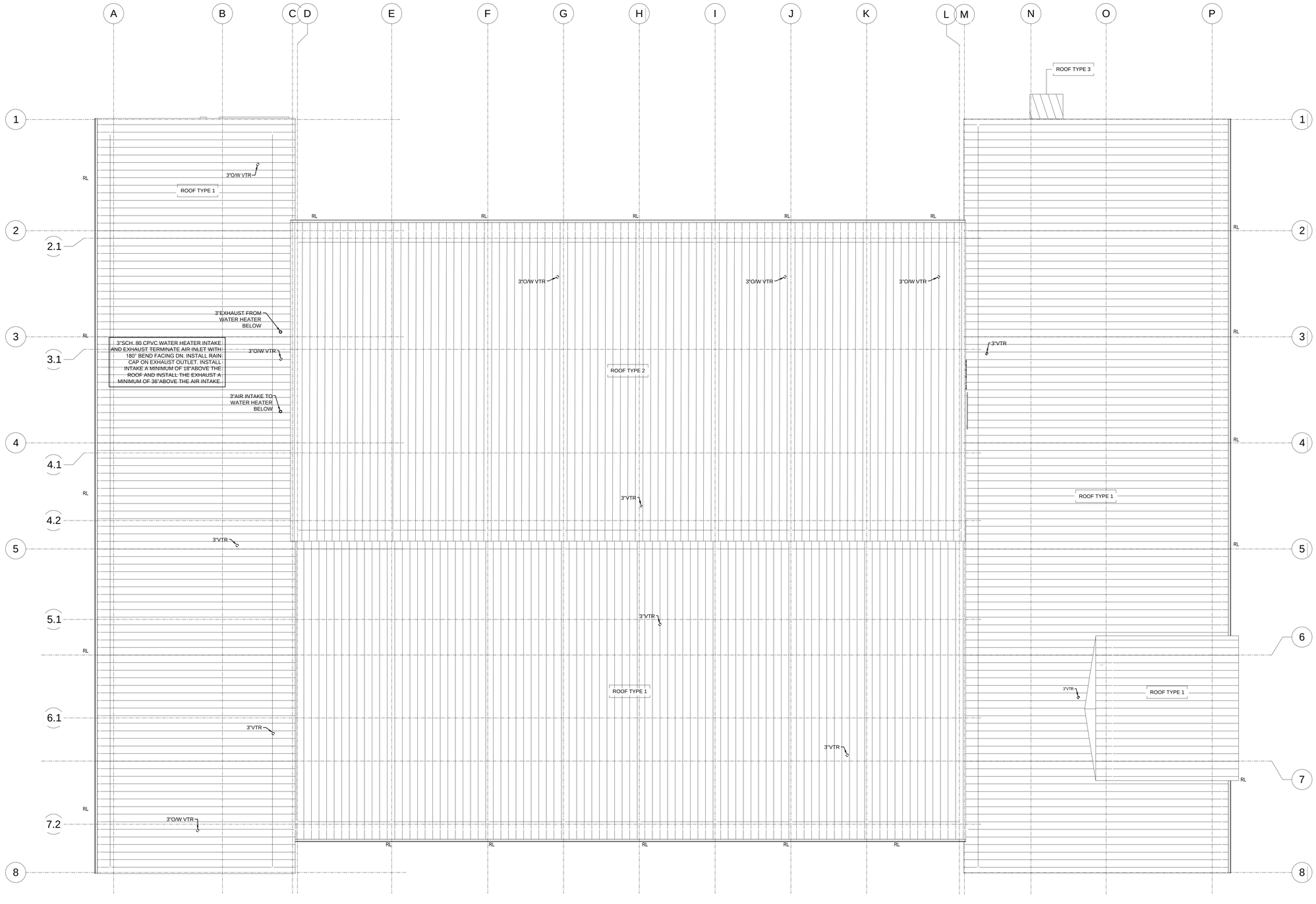
PARTIAL FLOOR PLUMBING PLAN AREA B

DATE	09/24/2014		
SCALE	AS NOTED		
DWN.	TIP	CHK.	CRL
PROJ. No.	444505		
DWG. No.	P104		



1 ROOF PLUMBING PLAN
SCALE: 3/32" = 1'-0"

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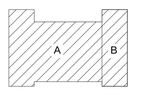

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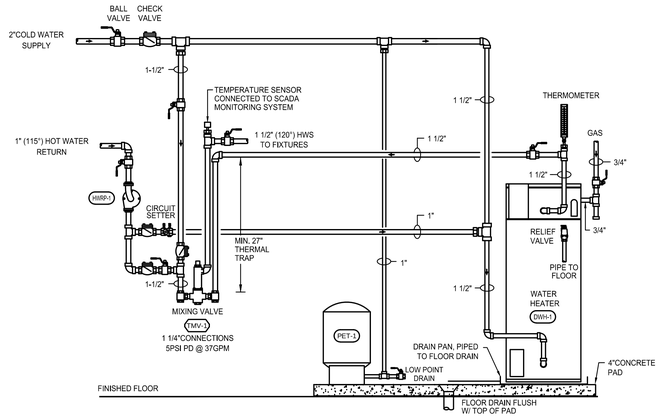
Revision Number	Issued by	Revision Description	Revision Date

DWG. TITLE

ROOF
PLUMBING PLAN

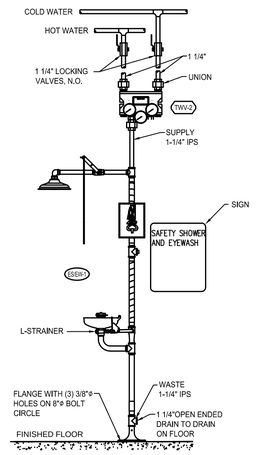
DATE	09/24/2014		
SCALE	AS NOTED		
DWN.	TIP	CHK.	CRL
PROJ. No.	444505		
DWG. No.			

P105

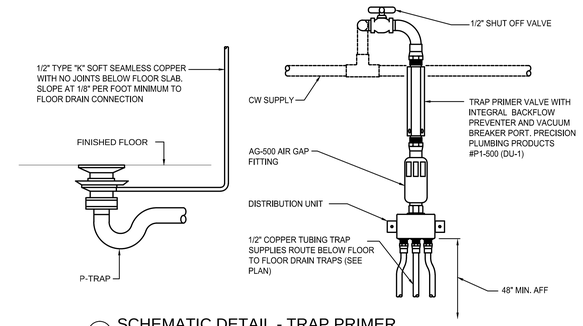


NOTE: INSTALL 4"SCHEDULE 80 CPVC INTAKE AND EXHAUST PIPE UP THROUGH ROOF

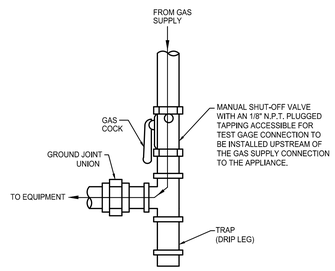
1 OPERATION AND MAINTENANCE BUILDING - GAS WATER HEATER DETAIL
SCALE: NONE



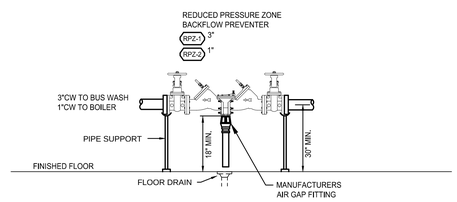
2 EYE WASH/ EMERGENCY SHOWER DETAIL
SCALE: NONE



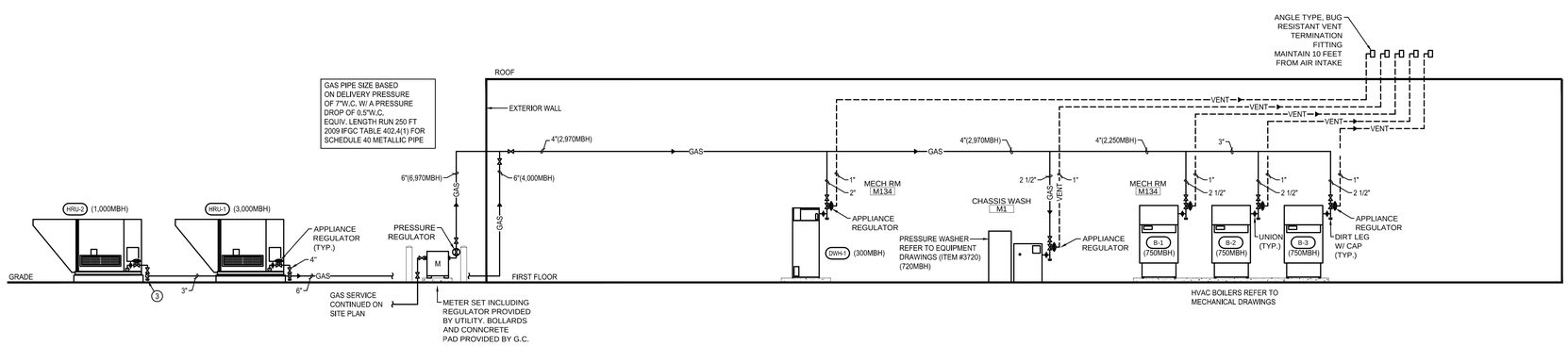
3 SCHEMATIC DETAIL - TRAP PRIMER
SCALE: NONE



4 GAS CONNECTION TO EQUIPMENT DETAIL
SCALE: NONE



5 BACKFLOW PREVENTER DETAIL
SCALE: NONE



6 NATURAL GAS PIPING SCHEMATIC
SCALE: NONE

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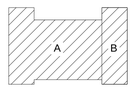

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KEY PLAN

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COMMONWEALTH OF VIRGINIA
CHARLES R. LAWSON, II
Lic. No. 042235
PROFESSIONAL ENGINEER

Revision Number	Issued by	Revision Description	Revision Date

DWG. TITLE

PLUMBING DETAILS

DATE	09/24/2014		
SCALE	AS NOTED		
DWN.	TIP	CHK.	CRL
PROJ. No.	444505		
DWG. No.	P201		

PLUMBING FIXTURE / SPECIALTY SCHEDULE

FIXTURE NO.	DESCRIPTION	MANUFACTURER & MODEL	PIPING CONNECTIONS				ACCESSORIES	REMARKS
			S/W	VENT	C.W.	H.W.		
BFP-1	BACKFLOW PREVENTER, LEAD FREE, DUAL CHECK WITH ATMOPHERIC PORT PIPED TO FLOOR DRAIN (INSTALL AT ICE MACHINE)	WATTS SD-3	-	-	3/8"	-	WYE STRAINER	ASSE 1022 CERTIFIED
CB-1	CATCH BASIN, HEAVY DUTY, EPOXY COATED STEEL BODY, DUCTILE IRON GRATE, DEEP SEAL TRAP ON OUTLET, 18"BODY DEPTH.	MIFAB F1570-4-T	4"	-	-	-	-	RATED FOR H20 LOADING
ES/EW-1	EMERGENCY SHOWER AND EYEWASH COMBINATION UNIT, 20GPM SHOWER FLOW CONTROL, SS PULL ROD, SS BALL VALVE FLOOR MOUNTED	SPEAKMAN SE-603-SPV-SPR-SSBV	-	-	-	1 -1/4" (80°F)	TEMPERED WATER MIXING VALVE, STRAINER ON EYEWASH INLET, SIGN	TEMPERED WATER MIXING (MV-2) VALVE SPEAKMAN MODEL SE-360
EWC-1	ADA COMPLIANT TWO LEVEL, ELECTRIC WATER COOLER AND FILTERED BOTTLE FILLING STATION #14 GAUGE, TYPE 304 SS	ELKAY EZH20 LZSTL8WSLK	2"	1-1/2"	1/2"	-	WALL MOUNTING PLATE, VANDAL RESISTANT BUBBLER, 3 PACK REPLACEMENT FILTERS	15AMP MINIMUM DUAL RECEPTOR 115V
FCO	FLOOR CLEAN OUT W/ ROUND ADJUSTABLE NICKEL BRONZE TOP & SECONDARY PLUG	MIFAB C1100-R	VARIES	-	-	-	- -	SIZE TO MATCH SANITARY LINE SIZE, MAXIMUM 4"
FD-1	FLOOR DRAIN, 6"ϕ NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION	MIFAB F1100-7-1	VARIES	-	-	-	TRAP PRIMER	-
FD-2	FLOOR DRAIN, 7"ϕ DUCTILE IRON STRAINER AND SEDIMENT BUCKET TRAP PRIMER CONNECTION	MIFAB F1300C-5-7	VARIES	-	-	-	TRAP PRIMER	-
FD-3	FLOOR DRAIN, 4"x9" FUNNEL, TRAP PRIMER CONNECTION	MIFAB F1100-1-G	VARIES	-	-	-	TRAP PRIMER	-
HB-1	HOSE BIBB, ROUGH BRASS FINISH, ANTI-SIPHON VACUUM BREAKER, CAST IRON WHEEL	MIFAB MHY-9031	-	-	3/4"	-	-	-
LAV-1	THREE STATION WASH SINK, WALL MOUNTED, 14 GUAGE STAINLESS STEEL, WITH SENSOR FAUCETS, AC BATTERY POWERED, THERMOSTATIC MIXING VALVE, AND WALL HANGER, 72"x20"WIDE	ELKAY EWMA7220SACTMC	2"	1-1/2"	1/2"	1/2"	FAUCETS, SS STRAINER, SUPPLIES, STOPS, TRAP, & ESCUTCHEON PLATE	
LAV-2	ADA COMPLIANT WALL MOUNTED 18 GAUGE STAINLESS STEEL LAVATORY,OVERFLOW, 4"CENTER FAUCET HOLES, 22"X19"WIDE	ELKAY ELVWO2219	2"	1-1/2"	1/2"	1/2"	FAUCETS, SS STRAINER, SUPPLIES, STOPS, TRAP, OFFSET TAILPIECE ESCUTCHEON PLATE, AND WALL HANGER	ELECTRONIC FAUCET, BATTERY POWERED ELKAY MODEL LKB721C W/ MIXING VALVE ELKAY MODEL LK723
LAV-3	OVAL LAVATORY, VITREOUS CHINA, DROP-IN, OVERFLOW, 4"CENTER FAUCET HOLES, 20 1/8"x16 1/2"WIDE	KOHLER K-2699	2"	1-1/2"	1/2"	1/2"	FAUCETS, SS STRAINER, SUPPLIES, STOPS, TRAP, OFFSET TAILPIECE ESCUTCHEON PLATE	ELECTRONIC FAUCET, BATTERY POWERED CHICAGO MODEL 116757.AB.1 W/ MIXING VALVE CHICAGO MODEL 122-ABNF
LAV-4	ADA COMPLIANT WALL MOUNTED, VITREOUS CHINA,OVERFLOW, 4"CENTER FAUCET HOLES, 20 3/4"x18 1/4"WIDE	KOHLER K-2032	2"	1-1/2"	1/2"	1/2"	FAUCETS, SS STRAINER, SUPPLIES, STOPS, TRAP, OFFSET TAILPIECE ESCUTCHEON PLATE, AND CONCEALED ARM CARRIER	ELECTRONIC FAUCET, BATTERY POWERED CHICAGO MODEL 116757.AB.1 W/ MIXING VALVE CHICAGO MODEL 122-ABNF
MSB-1	MOP SINK FLOOR MOUNTED, TERRAZZO 24"x24"x12" WITH 6" DROP FRONT AND SS CAP ON DROP THRESHOLD	FIAT TSB3010	3"	1-1/2"	1/2"	1/2"	FAUCET, HOSE AND HOSE BRACKET	EXPOSED PIPE CONNECTIONS, TWO LEVER FAUCET W/ INTERNAL STOPS AND VACUUM BREAKER, CHICAGO MODEL 835-369CP
MSB-2	MOP SINK FLOOR MOUNTED, TERRAZZO 24"x24"x12" WITH 6" DROP FRONT AND SS CAP ON DROP THRESHOLD	FIAT TSB3010	3"	1-1/2"	1/2"	1/2"	FAUCET, HOSE AND HOSE BRACKET	TWO LEVER FAUCET W/ INTERNAL STOPS AND VACUUM BREAKER, CHICAGO MODEL 445-897SRCXKCP
RPZ-1	REDUCED PRESSURE ZONE BACKFLOW PREVENTER W/ QUARTER TURN BALL VALVES, LEAD FREE (INSTALL AT BUS WASH EQUIP)	WATTS LF957-QT	-	-	3"	-	AIR GAP FITTING, WILKINS AG	BUS WASH SERVICE
RPZ-2	REDUCED PRESSURE ZONE BACKFLOW PREVENTER W/ QUARTER TURN BALL VALVES, LEAD FREE (INSTALL AT BUS WASH EQUIP)	WATTS LF009-QT	-	-	1"	-	AIR GAP FITTING, WILKINS AG	BOILER MAKEUP WATER
SH-1	ADA COMPLIANT SHOWER, SOLID SURFACE SHOWER RECEPTOR WITH INTEGRAL TRENCH DRAIN, 36"x36", COLOR: GREY GRANITE	WILLOUGHBY INDUSTRIES AQUASURF AS-S3840FA	2"	1-1/2"	1/2"	1/2"	SHOWER VALVE (1.5GPM), STANDARD HEAD, SLIDE BAR W/ HEAD, AND HOSE,	SHOWER SYSTEM MOEN 8342EP15
SH-2	ADA COMPLIANT SHOWER, SOLID SURFACE SHOWER RECEPTOR WITH INTEGRAL TRENCH DRAIN, 36"x60", COLOR: GREY GRANITE	WILLOUGHBY INDUSTRIES AQUASURF AS-S3462FA	2"	1-1/2"	1/2"	1/2"	SHOWER VALVE (1.5GPM), STANDARD HEAD	SHOWER SYSTEM MOEN 8375EP15
SK-1	TWO BOWL STAINLESS STEEL DROP-IN SINK, 3 HOLES 4"OC, 29"x22"x5 1/2" DEEP OVERALL LENGTH	ELKAY LRAD2922	1-1/2"	1-1/2"	1/2"	1/2"	FAUCET, SS STRAINERS, SUPPLIES, STOPS, TRAP, TAILPIECE, AND ESCUTCHEON PLATE	FAUCETS: SINGLE LEVER, 1.5GPM CHICAGO MODEL 2300-8E34VPABCP
SK-2	STAINLESS STEEL SERVICE SINK, 1-5/8"ϕ TUBULAR LEGS, 33"X30"X14" DEEP, 3 HOLES 4"OC,	ELKAY SS8130	1-1/2"	1-1/2"	1/2"	1/2"	FAUCET, SS STRAINERS, SUPPLIES, STOPS, TRAP, TAILPIECE, AND ESCUTCHEON PLATE	FAUCETS WITH VACUUM BREAKER: TWO LEVER, BACKSLASH MOUNTED CHICAGO MODEL 305-VBCP
TMV-1	THERMOSTATIC MIXING VALVE, HI/LO MASTER, ROUGH BRONZE BODY	POWERS SH1434	-	-	1-1/4"	1-1/4"	INSTALL COMBINATION PRESSURE AND TEMPERATURE GAUGE ON HW INLET AND OUTLET	5PSI DROP @42 GPM
TMV-2	THERMOSTATIC MIXING VALVE, ROUGH BRONZE BODY	POWERS ETV200	-	-	3/4"	3/4"	INSTALL COMBINATION PRESSURE AND TEMPERATURE GAUGE ON HW INLET AND OUTLET	5PSI DROP @13.4 GPM
TPV	TRAP PRIMER VALVE	PPP P1-500	-	-	1/2"	-	-	-
UR-1	ADA COMPLIANT, URINAL, WALL MOUNTED, VITREOUS CHINA, 0.125GPF	KOHLER BARDON K-4904-ET	2"	2"	3/4"	-	BATTERY OPERATED SENSOR FLUSH VALVE, CARRIER	FLUSH VALVE SLOAN ECOS 8186 WITH MANUAL OVERRIDE
UR-2	URINAL, WALL MOUNTED, VITREOUS CHINA, 0.125GPF	KOHLER BARDON K-4904-ET	2"	2"	3/4"	-	BATTERY OPERATED SENSOR FLUSH VALVE, CARRIER	FLUSH VALVE SLOAN ECOS 8186 WITH MANUAL OVERRIDE
WC-1	ADA COMPLIANT, WATER CLOSET, FLUSH VALVE, WALL MOUNTED, TOP SPUD, VITREOUS CHINA, 1.28GPF	KOHLER KINGSTON K-4325	4"	2"	1"	-	BATTERY OPERATED SENSOR FLUSH VALVE & OPEN FRONT SEAT, CARRIER	FLUSH VALVE SLOAN ECOS 8111-1.28 WITH MANUAL OVERRIDE
WC-2	WATER CLOSET, FLUSH VALVE, WALL MOUNTED, TOP SPUD, VITREOUS CHINA, 1.28GPF	KOHLER KINGSTON K-4325	4"	2"	1"	-	BATTERY OPERATED SENSOR FLUSH VALVE & OPEN FRONT SEAT, CARRIER	FLUSH VALVE SLOAN ECOS 8111-1.28 WITH MANUAL OVERRIDE
WCO	WALL CLEANOUT, BRONZE PLUG AND SS ACCESS COVER	MIFAB C1430	VARIES	-	-	-	-	SIZE TO MATCH SANITARY LINE SIZE, MAXIMUM 4"
WH-1	WALL HYDRANT, ENCASED NON-FREEZE, SATIN NICKEL BRONZE BOX, HINGED WITH LOCKING COVER	MIFAB MHY-20	-	-	3/4"	-	-	-
WHA	WATER HAMMER ARRESTOR, PISTON OPERATED	MIFAB MWH	-	-	VARIES	-	-	NO ACCESS DOOR REQUIRED

DOMESTIC WATER HEATER SCHEDULE (DWH)

PLAN DESIGNATION	MANUFACTURER MODEL NO.	TYPE	LOCATION	STORAGE CAPACITY (GAL)	THERMAL EFFICIENCY	CAPACITY		ELECTRICAL DATA			NOTES
						INPUT (MBH)	OUTPUT	AMPS	VOLTS/ PHASE	HERTZ	
DWH-1	A.O SMITH CYCLONE BTH-300	GAS FIRED HW TANK	MECH RM	130	95	300	285	6.2	120/1⌀	60	1

NOTES:

1. PROVIDE THE FOLLOWING STANDARD AND OPTIONAL EQUIPMENT:
   - -PIPE MOUNTED TEMPERATURE GAUGES
   - -COPPER FINNED WATER TUBES
   - -REDUNDANT GAS VALVES
   - -ADJUSTABLE AQUASTAT WITH ADJUSTABLE DIFFERENTIAL
   - -ASME PRESSURE/TEMPERATURE RELIEF VALVE
   - -LOW GAS PRESSURE SWITCH
   - -MAIN GAS PRESSURE REGULATOR
   - -WATER FLOW SWITCH
   - -REMOTE MANIFOLD GAS PRESSURE TAP
   - -STAINLESS STEEL BURNER
   - -ELECTRONIC CONTROLS, 24 VOLT, INTERMITTENT ELECTRONIC IGNITION
   - -ELECTRIC DISCONNECT SWTTCH

HOT WATER RETURN PUMP SCHEDULE (HWRP)

PLAN DESIGNATION	MANUFACTURER MODEL NO.	SERVICE	LOCATION	TEMPERATURE (DEG. °F)	TOTAL HEAD (FT)	FLOW (GPM)	POWER (HP)	RPM	ELECTRICAL DATA				NOTES
									VOLTS	PHASE	HERTZ	F.L.AMPS	
HWRP-1	TACO 008-BC6	DOMESTIC WATER	MECH M&O BLDG	120	12	6	1/25	3250	115	1	60	0.84	1,2,3

NOTES:

1. BRONZE BODY CONSTRUCTION, NON FERROUS IMPELLER, 225°F MAX OPERATING TEMPERATURE, 125 PSI MAX WORKING PRESSURE.
2. PROVIDE AQUASTAT AND AUTOMATIC TIMER KIT.
3. PROVIDE ELECTRICAL DISCONNECT.

PLUMBING EXPANSION TANK SCHEDULE (PET)

PLAN DESIGNATION	MANUFACTURER MODEL NO.	LOCATION	TANK TYPE	TANK VOLUME (GAL.)	ACCEPTANCE VOLUME (GAL.)	LENGTH (IN.)	DIAMETER (IN.)	INLET (IN.)	FULL WEIGHT (LBS)	NOTES
PET-1	WILKINS WTTA-20	MECH. ROOM O&M BLDG	BLADDER	8	3.1	20	12	3/4	34	ASME RATED

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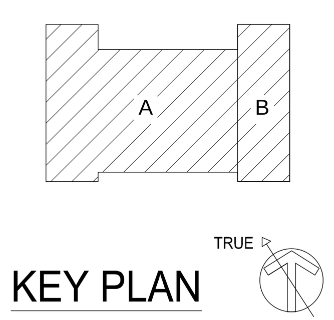

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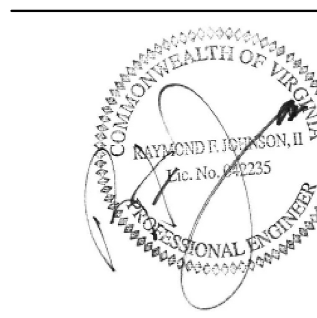

Revision Number	Issued by	Revision Description	Revision Date

DWG. TITLE

PLUMBING SCHEDULES

DATE	09/24/2014		
SCALE	AS NOTED		
DWN.	TIP	CHK.	CRL
PROJ. No.	444505		
DWG. No.	P301		

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