PLUMBING SYMBOLS						
THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBI STANDARD MOUNTING HEIGHTS	REVIATIONS ARE USE PIPING SYMBOLS	D.		PIPING LINETYPE	S	V2.02
CLINIC SERVICE SINKS (RIM) 30"		OXYGEN OUT		CW	DOMEST	TIC COLD WATER (CW)
HOSE BIBB (CENTERLINE) 36"		NITROUS OXI		SCW		ED COLD WATER (SCW)
CE MAKER OUTLET BOX (CENTER OF BOX) 24"		MEDICAL AIR NITROGEN O		HW		TIC HOT WATER (HW) TIC HOT WATER RECIRC. (HWR)
ANITOR'S SINK FAUCET FITTINGS (CENTERLINE)  42"		MEDICAL VAC		140°		TIC HOT WATER (140°)
AVATORY OR SINK  STANDARD HEIGHT (RIM)  ADA ACCESSIBLE (RIM)  31"  34"			(FS), SIZE & TYPE	——т—		RIMER LINE (T)
CHILD HEIGHT (RIM) 24"	■ ●	FLOOR DRAIN	N (FD), SIZE & TYPE	s	SOIL PIP	ING - ABOVE FLOOR (S)
NON FREEZE WALL HYDRANT (AFG TO CENTERLINE) 18"	(Ĉ)	ROOF DRAIN	(RD), SIZE & TYPE	— -s— —	SOIL PIP	ING - BELOW FLOOR (S)
SHOWER HEAD  MEN (CENTERLINE)  78"	<del></del>	BALL VALVE		W	WASTE F	PIPING - ABOVE FLOOR (W)
WOMEN (CENTERLINE) 72" SHOWER VALVE		CONTROL VA				PIPING - BELOW FLOOR (W)
STANDARD HEIGHT - MEN (CENTERLINE) 48" STANDARD HEIGHT - WOMEN (CENTERLINE) 42"		SHUTOFF VA		——GW——		WASTE - ABOVE FLOOR (GW)
ADA ACCESSIBLE (CENTERLINE) 38" TO 48"		CHECK VALV	E ALVE WITH PRESSURE PORTS	CGWV		WASTE - BELOW FLOOR (GW) ATION GREASE WASTE AND VENT (CGWV)
URGEON'S SCRUB-UP SINK (FRONT RIM) 35"  UB VALVE		WATER METE		CWV		ATION WASTE AND VENT (CWV)
STANDARD HEIGHT (CENTERLINE)  ADA ACCESSIBLE  CENTER BETWEEN GRAB BAR AND TUB RIM		STRAINER		ST	STORM I	DRAIN - ABOVE FLOOR (ST)
RINAL		STRAINER W	TH BLOWOFF	— — ·st· — —	STORM I	DRAIN - BELOW FLOOR (ST)
STANDARD HEIGHT (RIM) 24" ADA ACCESSIBLE (RIM) 17"	<u>&amp;</u>	RELIEF/SAFE	TY VALVE	OST	OVERFL	OW STORM DRAIN - ABOVE FLOOR (OST)
CHILD HEIGHT (RIM) 14"  /ASHING MACHINE OUTLET BOX (RIM) 42"		SOLENOID VA	ALVE	— — VBG — —	VENT BE	ELOW GRADE (VBG)
ATER CLOSET			EDUCING VALVE	— VBF — —		ELOW FLOOR (VBF)
STANDARD HEIGHT (RIM) 15" ADA ACCESSIBLE (TOP OF SEAT) 17" TO 19"			RE REGULATOR	——————————————————————————————————————		T DRAIN (ID)
CHILD HEIGHT (RIM) 10"	——————————————————————————————————————	PIPE ANCHOR	TIC MIXING VALVE	——————————————————————————————————————		ISATE DRAIN - HIGH EFFICIENCY RTU (CDH) ISATE DRAIN (CD)
/ATER COOLER OR DRINKING FOUNTAIN STANDARD HEIGHT (SPOUT) 41"		EXPANSION .		——————————————————————————————————————		RY CONDENSATE DRAIN (ACD)
ADA ACCESSIBLE (SPOUT) 36" CHILD HEIGHT (SPOUT) 30"		BACKFLOW F		——————————————————————————————————————		R SEWAGE PUMP DISCHARGE (SPD)
	φ	PRESSURE G	AUGE	G		L GAS (G)
ISTALL PLUMBING FIXTURES AT THE MOUNTING HEIGHTS SHOWN ABOVE		THERMOMET	ER	— — -G- — —	NATURA	L GAS ON ROOF (G)
NO IN THE ARCHITECTURAL DRAWINGS OR ELSEWHERE IN THE DNSTRUCTION DOCUMENTS. FINAL APPROVAL OF LOCATIONS BY	ф	UNION		———MPG———	MEDIUM	PRESSURE NATURAL GAS (MPG)
RCHITECT. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE DNSTRUCTION DOCUMENTS, ARE AFF, UNO. ALL DEVICES SHALL BE STALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL		FLANGE CON	NECTION	— — MPG — —		PRESSURE NATURAL GAS ON ROOF (MPG)
QUIREMENTS.	<del></del>	HOSE BIBB (H	,	——NPW——		TABLE WATER (NPW)
NOTATION			NG WALL HYDRANT (NW)	——LPG———		ED PETROLEUM GAS (LPG)
1) PLUMBING PLAN NOTE CALLOUT		VALVE	TOMATIC AIR VENT OR VACUUM RELIEF	DFP		SERVICE (WS) OTECTION SPRINKLER DRY (DFP)
DI LIMBINO FOLUDATAT DEGIONATION (CONTRACTOR	<u> </u>	PRESSURE /	VACUUM SWITCH	———FP		OTECTION SPRINKLER WET (FP)
PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR  FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE  OR EQUIPMENT SCHEDULES		CLEANOUT		———DSP———		OTECTION STANDPIPE DRY (DSP)
CIVE QUIL MENT GOINE BULES		CAP		WSP	FIRE PRO	OTECTION STANDPIPE WET (WSP)
EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)	——⇒ <sub>1</sub>	WALL CLEAN FLOOR CLEA	,	———PD———	CONDEN	ISATE PUMP DISCHARGE (PD)
CU\ MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR			EANOUT (ECO)	V	VENT PIF	PING (V)
CU MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)	o	ELBOW UP		———AW———		ASTE - ABOVE FLOOR (AW)
CONNECTION POINT OF NEW WORK TO EXISTING	——	ELBOW DOW	N	— — AW — —		STE - BELOW FLOOR (AW)
	——ю—	TEE UP		AV GWS	ACID VEI	NT (AV) ATER (GWS)
DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER	<del></del>	TEE DOWN		CA		ESSED AIR (CA)
SECTION CUT DESIGNATION	———•Q		TITH SHUT-OFF VALVE (SOV)	MA		_ AIR (MA)
(P1)	<del></del>		N WITH SHUT-OFF VALVE (SOV)	MV	MEDICAL	_ VACUUM (VE)
DEDICATED EQUIPMENT ACCESS TILE			SHUT-OFF VALVE (SOV)	———НЕ	HELIUM	(HE)
ACCESS PANEL			VITH SHUT OFF VALVE (SOV)  MER ARRESTER (WHA) WITH PDI SIZES,	IA	INSTRUM	MENT AIR (IA)
	- <del></del>	(A, B, C, D, &	,	IV	INSTRUM	MENT VACUUM (IV)
BBREVIATIONS	<b>—</b>	RECIRCULAT	ION PUMP	N2	NITROGE	` '
DA AMERICANS WITH MIN MINIMUM DISABILITIES ACT N/C NORMALLY CLOSED		P-TRAP		N2O		S OXIDE (N20)
FF ABOVE FINISHED FLOOR N/O NORMALLY OPEN FG ABOVE FINISHED GRADE NIC NOT IN CONTRACT HU AIR HANDLING UNIT ORD OVERFLOW ROOF DRAIN		GAS COCK TRAP PRIMER	2	——————————————————————————————————————	OXYGEN EVAC/W	I (O2) AGD (EV)
HU AIR HANDLING UNIT ORD OVERFLOW ROOF DRAIN P ACCESS PANEL PDI PLUMBING DRAINAGE AS BUILDING AUTOMATION INSTITUTE			R WITH DISTRIBUTION UNIT	CO2		I DIOXIDE (CO2)
SYSTEM PH/Ø PHASE FF BELOW FINISHED FLOOR PRV PRESSURE REDUCING			- · · <del>-</del> · · · ·	——————————————————————————————————————		_ AIR INTAKE (AI)
FG BELOW FINISHED GRADE VALVE DP BOTTOM OF PIPE PVC POLYVINYL CHLORIDE				VE		_ VACUUM EXHAUST (VE)
OS BOTTOM OF STRUCTURE RCP REINFORCED CONCRETE TU BRITISH THERMAL UNIT PIPE TO CLEAN OUT.				———DA———	DENTAL	AIR (DA)
CLEAN OUT RD ROOF DRAIN CONDENSATE PUMP REVOLUTIONS PER CVC CHLORINATED POLYVINYL MINUTE				DV	DENTAL	VACUUM (DV)
CHLORIDE RTU ROOFTOP UNIT COPPER S SANITARY SEWER				——FW1——		D WATER (FW1)
DUCTILE IRON SF SQUARE FEET SP SUMP				——FW2——		D WATER W/ SCALE INHIBITOR (FW2)
U DRAINAGE FIXTURE UNIT SS STAINLESS STEEL, SOIL STACK				RO		E OSMOSIS (RO)
EXISTING S ENERGY MANAGEMENT SYSTEM  TDH TOTAL DYNAMIC HEAD TFA TO FLOOR ABOVE TFB TO FLOOR BELOW				ROR	KEVERS	E OSMOSIS REMINERALIZATION (ROR)
SYSTEM TFB TO FLOOR BELOW R EXISTING TO REMAIN TYP TYPICAL /C ELECTRIC WATER COOLER UL UNDERWRITERS	LINETYPE LEGENE	)				
FLOOR DRAIN  FROM FLOOR ABOVE  LABORATORIES, INC.  UNO UNLESS NOTED			ENT LINETYPES ARE USED IN INDICATE THE STATUS OF ITEMS AS			
B FROM FLOOR BELOW OTHERWISE FINISHED FLOOR UPS UNINTERRUPTIBLE	EXISTING, TO BE DEMOI AND/OR ITEMS WHICH A	LISHED, TO BE I RE ANTICIPATE	NCLUDED AS PART OF NEW WORK ED TO BE PROVIDED IN THE FUTURE.			
FLOW LINE POWER SUPPLY A FULL LOAD AMPS VCP VITRIFIED CLAY PIPE	VIEW IN WHICH THEY AF	PPEAR. PHASIN	INETYPES ARE RELATIVE TO THE IG SHOWN IN DRAWINGS IS NOT			
R FLOOR VFD VARIABLE FREQUENCY PM GALLONS PER MINUTE DRIVE  VS VENT STACK	WHICH IS DETERMINED	BY THE CONTR	CESSARY CONSTRUCTION PHASING, ACTOR AS PART OF THEIR	0.11. 0		
O HEAD, HUB DRAIN VS VENT STACK Y HERTZ VTR VENT THROUGH ROOF INVERT ELEVATION W/ WITH	DOCUMENTS ARE GENE	RAL AND ONLY	DESCRIBED IN THE CONSTRUCTION INTENDED TO INDICATE A BROAD THE PROJECT. THE FOLLOWING	CALL OUTS		
WC INCHES OF WATER COLUMN W/O WITHOUT			ICE, EQUIPMENT, NOTE, LINE, SHAPE,	ENLARGED PLAN CALL	OUT	
BOX JUNCTION BOX WC WATER COLUMN BOX JUNCTION BOX WS WASTE STACK W KILOWATT WSFU WATER SUPPLY FIXTURE				5 <del></del>		
	LEVICTING		N. (= NA /			KXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
MAKE-UP AIR UNIT  MAX MAXIMUM  WVS WASTE VENT STACK  MBH 1000 BTU PER HOUR	EXISTING — — — — —		NEW ————————————————————————————————————	NOT IN SCOPE		

## **GENERAL NOTES:**

- PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS, REFER TO SPECIFICATIONS.
- 2. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS.
- 3. PROVIDE TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND

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- 4. INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND ALSO MEET ALL REQUIREMENTS OF THE LANDLORD. OBTAIN A COPY OF THE LANDLORD'S
- 6. VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF
- 7. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- 9. INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND
- 10. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
- 12. INSTALL VALVES AND APPURTENANCES A MAXIMUM OF 24" ABOVE CEILING IN ACCESSIBLE LOCATION WITHIN 24" OF
- REQUIRED HEIGHT AND WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES.
- RETURN AIR PLENUM.
- 14. COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- 15. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL
- TURNING BUILDING OVER TO THE OWNER.
- 17. PROVIDE TRAP PIMERS OR TRAP SEALS WHERE REQUIRED BY LOCAL AUTHORITIES.
- 18. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
- 19. PAINT ALL EXPOSED GAS AND WATER PIPING USING RUST INHIBITOR PAINT. PAINT AND COLOR SHALL BE COORDINATED WITH THE ARCHITECT AND / OR OWNER.
- MAINTAIN 10' MINIMUM CLEARANCE FROM ALL AIR INTAKES.
- 21. INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WITH
- PIPING, INCLUDING CONNECTIONS TO ROOF DRAINS AND SOIL
- SEE DIVISION 22 SPECIFICATIONS FOR MORE INFORMATION. 23. PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTION
- 24. PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTION
- 25. PER CITY OF BENTONVILLE REQUIREMENTS ALL CONDENSATE
- 26. FLOW CONTROL VALVES SHALL BE SIZE 1/2" AND SET AT 0.5
- GPM UNLESS NOTED OTHERWISE.
- HOT AND COLD WATER SUPPLIES FOR MOP SINK FAUCETS
- 29. PROVIDE WALL PIPES AT PIPING PENETRATIONS OF ELEVATED WATERPROOF FLOOR SLABS, REFER TO SPECIFICATIONS.
- 30. VERIFY EXISTING EQUIPMENT, INCLUDING ACCESSORIES, IS NOT DAMAGED AND IS IN GOOD WORKING ORDER. REPORT
- 31. PROVIDE SIZE AND LENGTH OF HOT WATER FIXTURE SUPPLY PIPE FROM CIRCULATED HOT WATER BRANCH OR MAIN TO TERMINATION OF HOT WATER FIXTURE SUPPLY PIPE AT EACH FIXTURE PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE, TABLE C404.3.1. FOR ½" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL LAVATORIES, PROVIDE MAXIMUM LENGTH OF TWO FEET. FOR 1/2" HOT WATER FIXTURE SUPPLY
- 32. BELOW GRADE PVC PIPING IS ALLOWABLE AND MUST BE INSTALLED PER LOCAL CODE.
- GENERAL NOTES UPDATED AS PART OF ADDENDUM #2

- NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- STATE INSPECTIONS, REFER TO SPECIFICATIONS.
- REQUIREMENTS AND REVIEW PRIOR TO SUBMITTING BID. 5. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
- CONNECTION BEFORE START OF PIPING INSTALLATION.
- 8. DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
- AS HIGH AS POSSIBLE.
- 11. INSTALL EXPOSED PIPING, WHERE NECESSARY, IN FINISHED AREAS TIGHT TO THE STRUCTURE, WALL OR CEILING AND AS HIGH AS POSSIBLE. INSTALL PIPING PARALLEL AND / OR
- PERPENDICULAR TO WALLS.
- ACCESS DOORS OR ACCESSIBLE CEILING TILES. PROVIDE PIPE AND FITTINGS TO INSTALL VALVES AND APPURTENANCES AT
- 13. INSTALL NO PLASTIC PIPE OF ANY KIND ABOVE SLAB OR INSIDE THE BUILDING. INSTALL NO PLASTIC PIPE IN THE CEILING

- CONTRACTOR BEFORE CONCRETE IS INSTALLED. 16. CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO

- 20. COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 2' CLEARANCE FROM ALL OTHER EQUIPMENT.
- MINIMUM 2" BATT INSULATION TO PREVENT FREEZING.
- 22. PROVIDE "HEAVY-DUTY" NO-HUB COUPLINGS ON STORM STACKS 4" AND LARGER AND CONNECTIONS TO SOIL STACKS.
- OF PVC DWV TO CAST IRON AT SLAB ON GRADE. SEE DIVISION
- 22 SPECIFICATION FOR MORE INFORMATION.
- OF PVC TO CAST IRON STORM PIPE AT SLAB ON GRADE. SEE DIVISION 22 SPECIFICATION SECTION "STORM DRAINAGE PIPING AND SPECIALTIES" FOR MORE INFORMATION.
- DRAIN PIPING MUST DISCHARGE INTO STORM DRAIN SYSTEM.
- 27. WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS NOTED OTHERWISE.
- 28. PROVIDE VERTICAL LIFT SPRING LOADED CHECK VALVES IN
- DOWNSTREAM OF SHUTOFF VALVES.
- ANY DEFICIENCIES TO THE ARCHITECT.
- TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH OF 21 FEET.

PIPE SIZE TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH

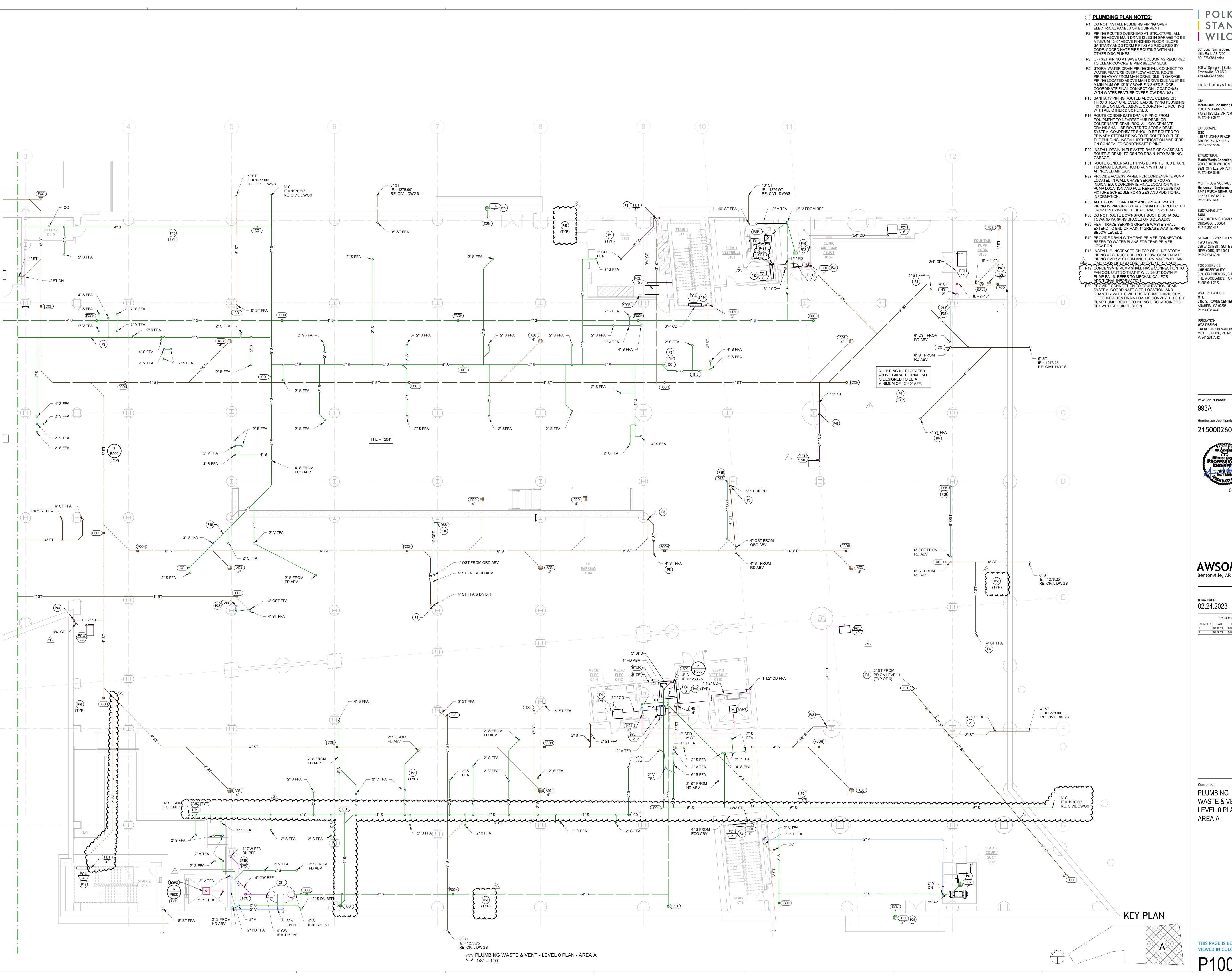
OF 43 FEET. FOR 3/4" HOT WATER FIXTURE SUPPLY PIPE SIZE

**GENERAL NOTES** 

AND LEGEND

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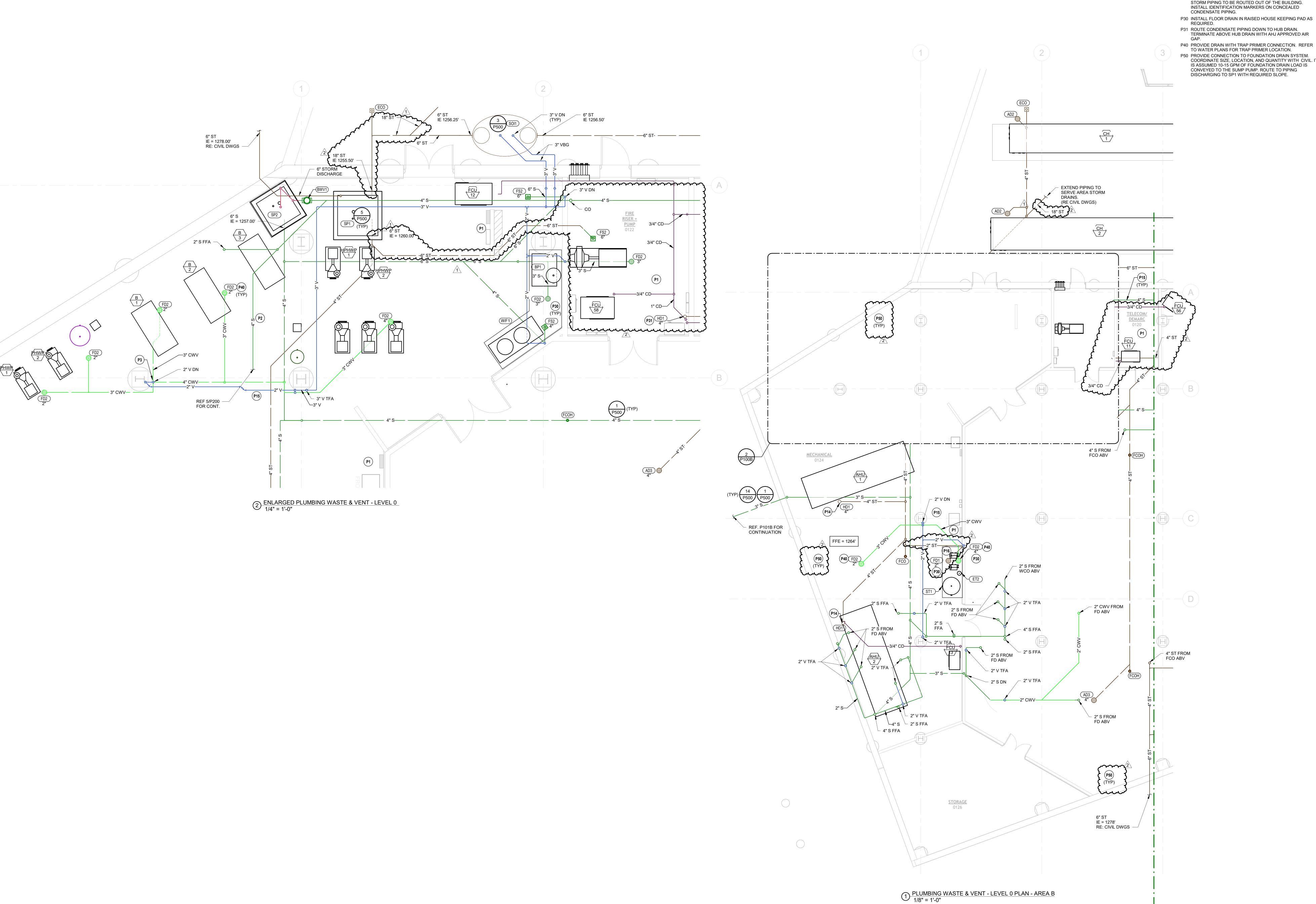
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 Addendum 2

PLUMBING WASTE & VENT -LEVEL 0 PLAN -AREA A

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**PLUMBING PLAN NOTES:** 

- P1 DO NOT INSTALL PLUMBING PIPING OVER ELECTRICAL
- PANELS OR EQUIPMENT. P2 PIPING ROUTED OVERHEAD AT STRUCTURE. ALL PIPING ABOVE MAIN DRIVE ISLES IN GARAGE TO BE MINIMUM 13'-6" ABOVE FINISHED FLOOR. SLOPE SANITARY AND STORM
- PIPING AS REQUIRED BY CODE. COORDINATE PIPE ROUTING WITH ALL OTHER DISCIPLINES. P3 OFFSET PIPING AT BASE OF COLUMN AS REQUIRED TO CLEAR CONCRETE PIER BELOW SLAB. P14 HUB DRAIN TO BE INSTALLED ABOVE FINISHED FLOOR
- LEVEL TO SERVE MECHANICAL UNIT CONDENSATE DRAIN AND PREVENT MAINTENANCE WATER ON FLOOR FROM ENTERING DRAIN. ROUTE CONDENSATE PIPING TO DRAIN AND TERMINATE ABOVE HUB DRAIN WITH AHJ APPROVED
- P15 SANITARY PIPING ROUTED ABOVE CEILING OR THRU STRUCTURE OVERHEAD SERVING PLUMBING FIXTURE ON LEVEL ABOVE. COORDINATE ROUTING WITH ALL OTHER DISCIPLINES.
- P16 ROUTE CONDENSATE DRAIN PIPING FROM EQUIPMENT TO NEAREST HUB DRAIN OR CONDENSATE DRAIN BOX. ALL CONDENSATE DRAINS SHALL BE ROUTED TO STORM DRAIN SYSTEM. CONDENSATE SHOULD BE ROUTED TO PRIMARY
- INSTALL IDENTIFICATION MARKERS ON CONCEALED
- P31 ROUTE CONDENSATE PIPING DOWN TO HUB DRAIN.
- TERMINATE ABOVE HUB DRAIN WITH AHJ APPROVED AIR P40 PROVIDE DRAIN WITH TRAP PRIMER CONNECTION. REFER
- TO WATER PLANS FOR TRAP PRIMER LOCATION. P50 PROVIDE CONNECTION TO FOUNDATION DRAIN SYSTEM. COORDINATE SIZE, LOCATION, AND QUANTITY WITH CIVIL. IT IS ASSUMED 10-15 GPM OF FOUNDATION DRAIN LOAD IS CONVEYED TO THE SUMP PUMP. ROUTE TO PIPING

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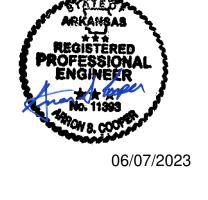
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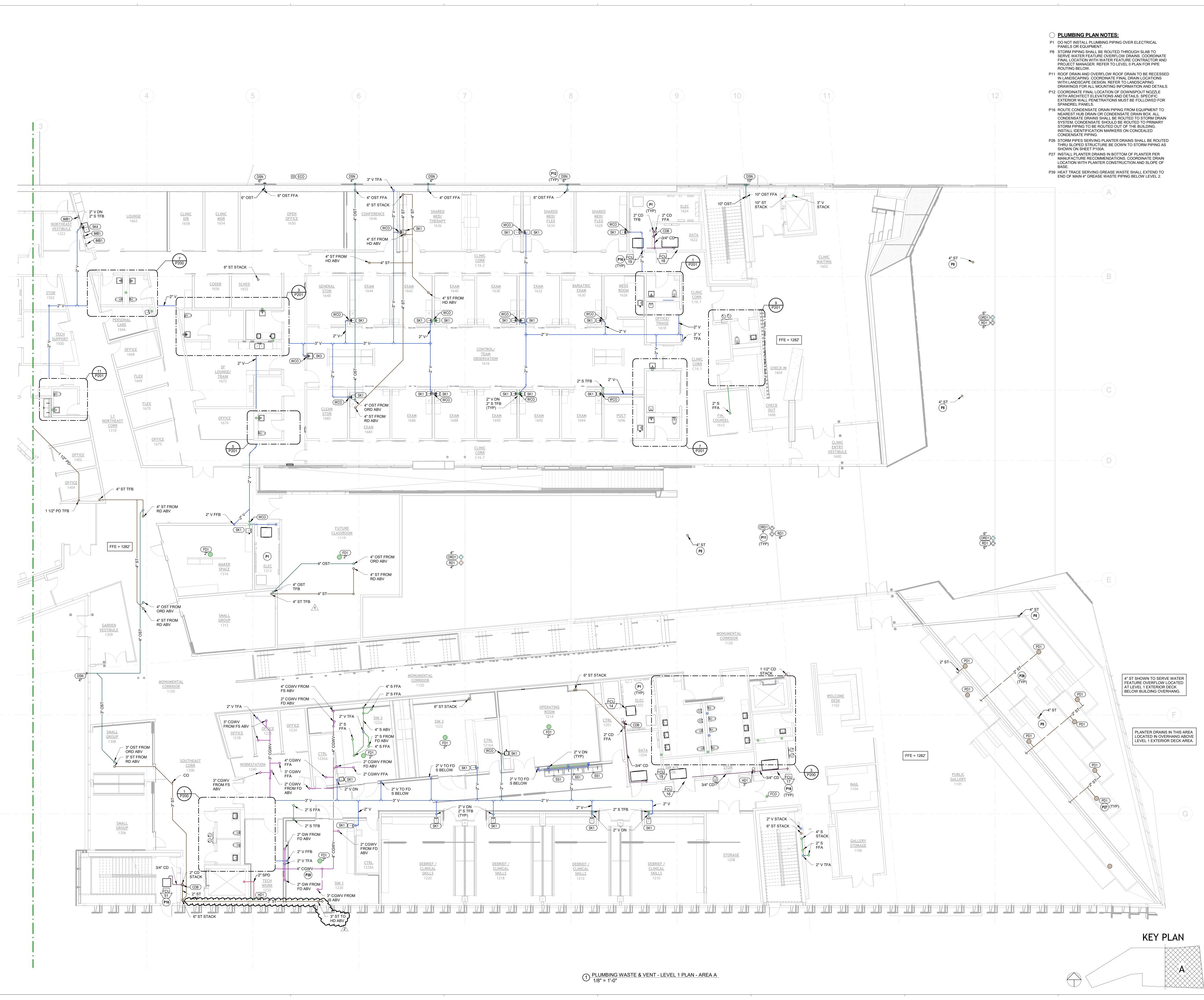
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PLUMBING WASTE & VENT -LEVEL 0 PLAN -AREA B

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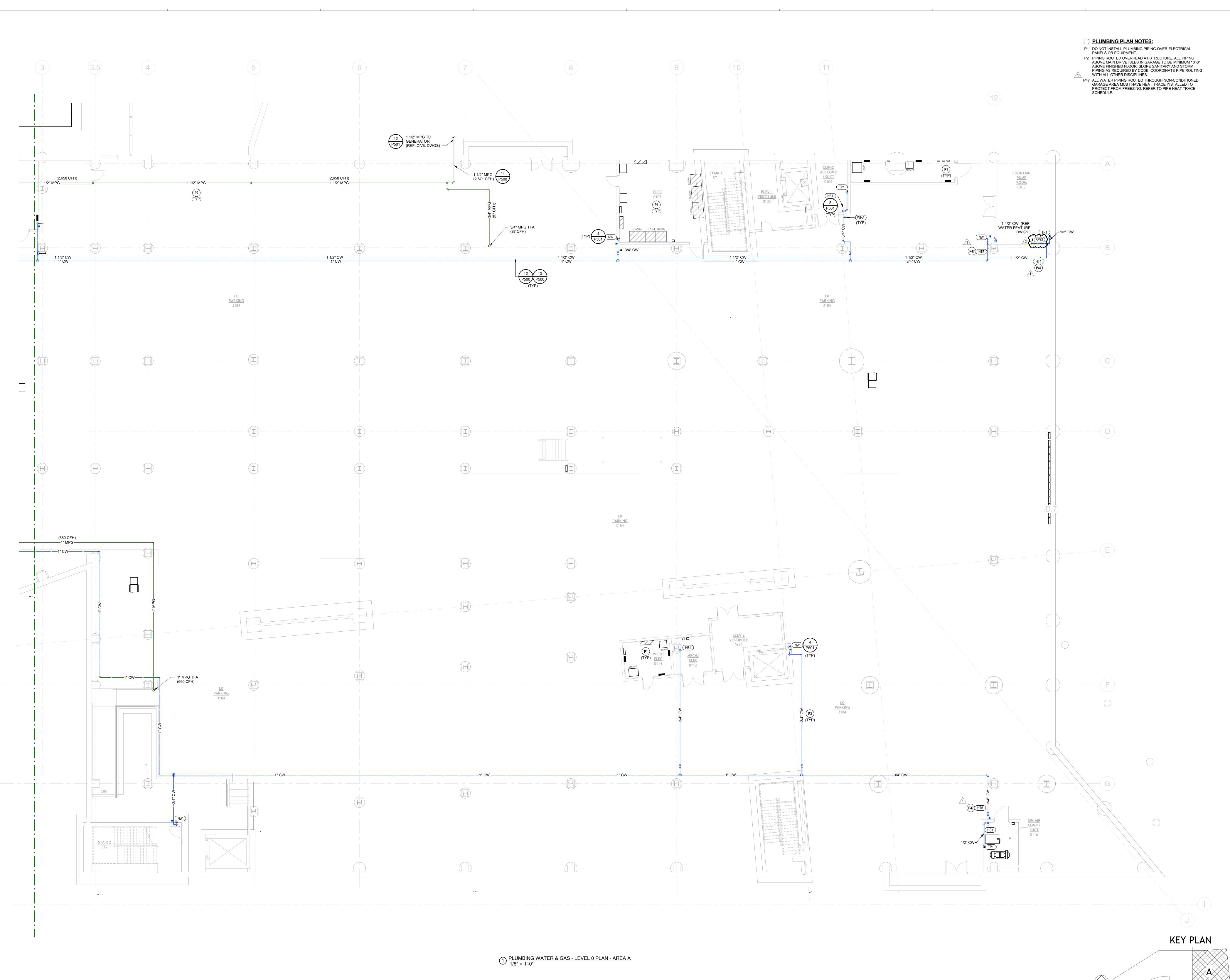
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PLUMBING
WASTE & VENT LEVEL 1 PLAN AREA A

AREA A

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WATER FEATURES
OTL
2150 S. TOWNE CENTER, SUITE 100
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P: 714.637.4747

IRRIGATION
WC3 DESIGN
11A ROBINSON MANOR BLVD.
MCKEES ROCK, PA 14136
P: 844.231.7042

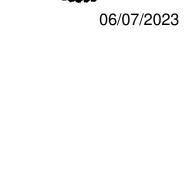
Henderson Job Number:

2150002607

ARKANSAS

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PROFESSIONAL



AWSOM
Bentonville, AR

sue Date: 02.24.2023

 NUMBER
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WATER & GAS LEVEL 0 PLAN AREA A

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## O PLUMBING PLAN NOTES:

- P1 DO NOT INSTALL PLUMBING PIPING OVER ELECTRICAL
- PANELS OR EQUIPMENT. P9 INSTALL BOOSTER PUMP ACCUMULATOR TANK ON WALL MOUNTED PLATFORM ABOVE BOOSTER PUMP ASSEMBLY.
- P22 1-1/4" NON-POTABLE MAKE-UP WATER TO MECHANICAL CHILLED WATER SYSTEMS. REFER TO MECH DWGS FOR CONTINUATION.

ROUTE PIPING AS REQUIRED.

- P23 1-1/4" NON-POTABLE MAKE-UP WATER TO MECHANICAL
- HEATING WATER SYSTEMS. REFER TO MECH DWGS FOR CONTINUATION. P34 MOUNT BACKFLOW PREVENTERS ON WALL IN STACKED POSITION AT MAX HEIGHT OF 5'-0" AFF.
- P36 PROVIDE GAS CONNECTION (SIZE AS SHOWN) TO BOILER. REFER TO MECH DWGS. P47 ALL WATER PIPING ROUTED THROUGH NON-CONDITIONED GARAGE AREA MUST HAVE HEAT TRACE INSTALLED TO
- PROTECT FROM FREEZING. REFER TO PIPE HEAT TRACE SCHEDULE. P48 MINIMUM GAS SUPPLY PIPE LENGTH FROM CONNECTION AT HEADER TO BOILER CONNECTION MUST TOTAL 10'-0" IN

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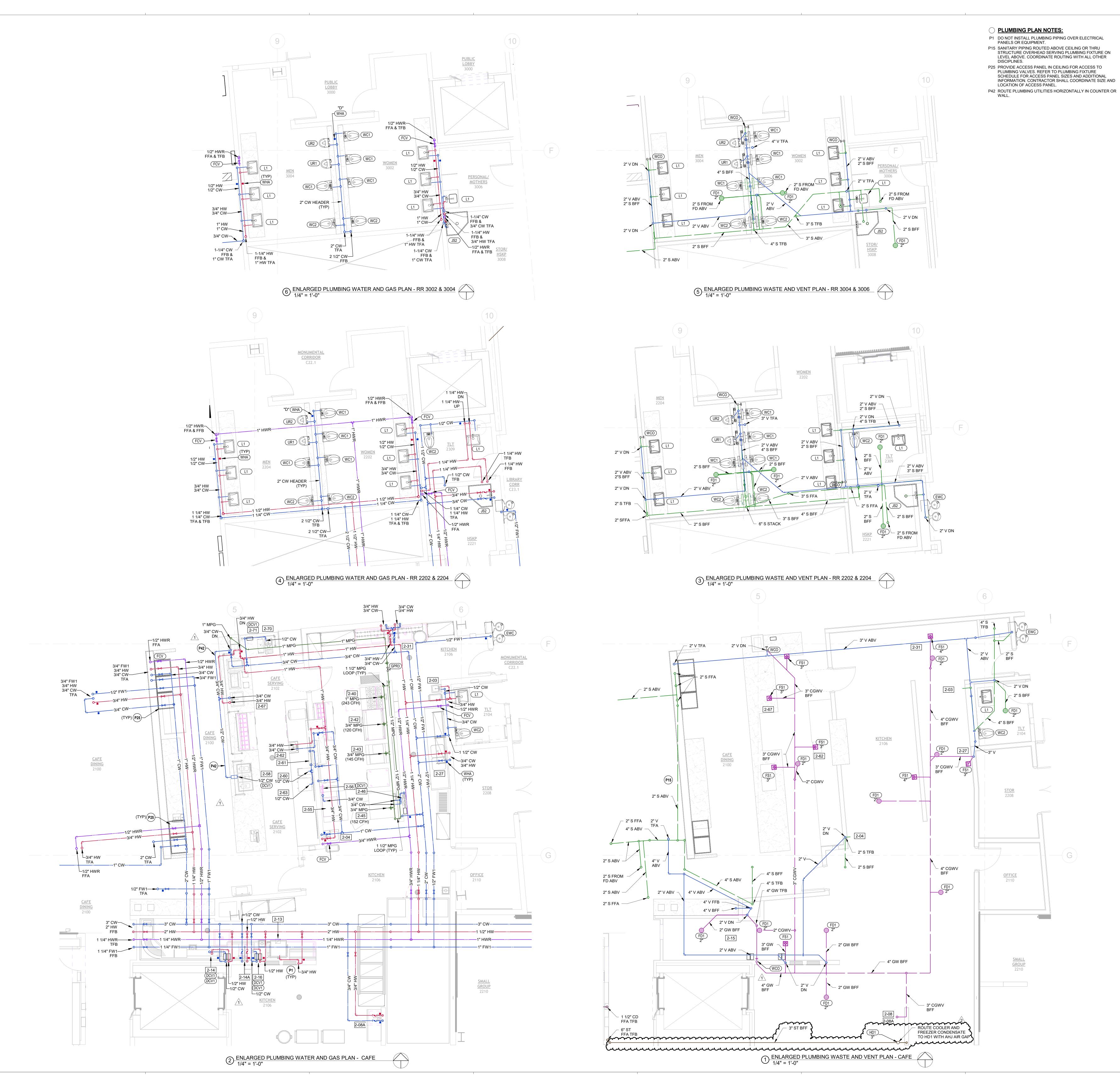
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PLUMBING WATER & GAS -LEVEL 0 PLAN -AREA B

**KEY PLAN** 

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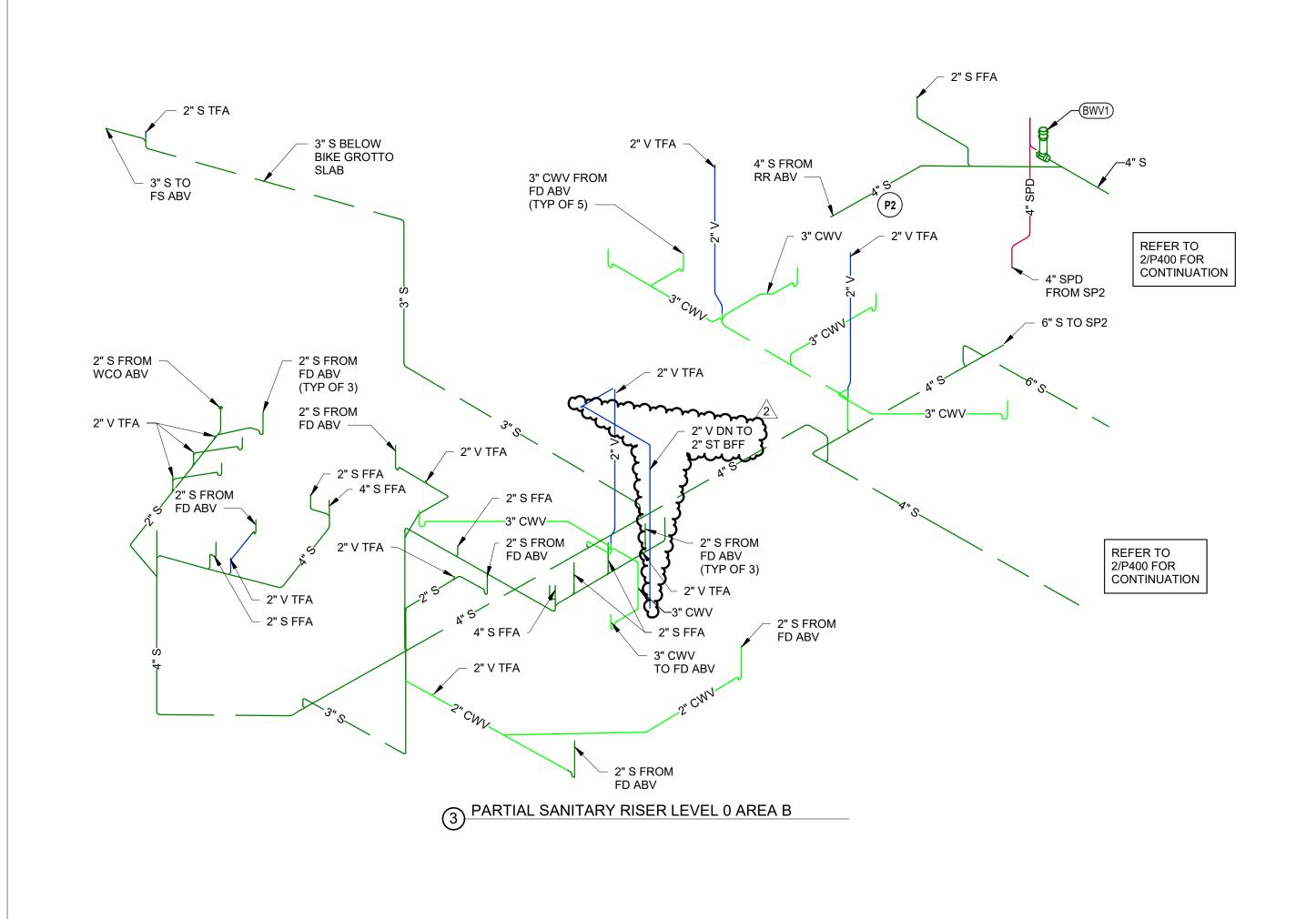
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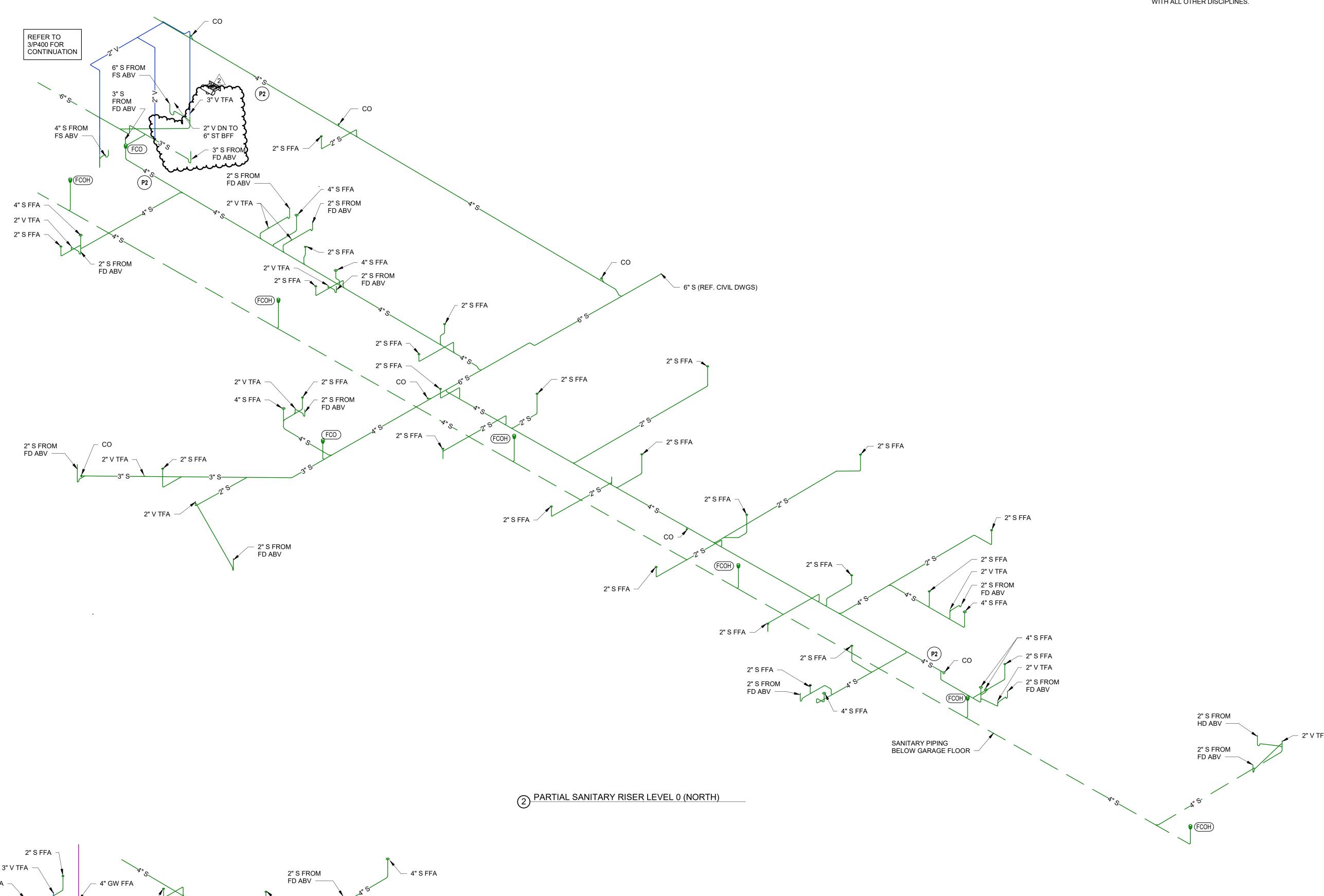
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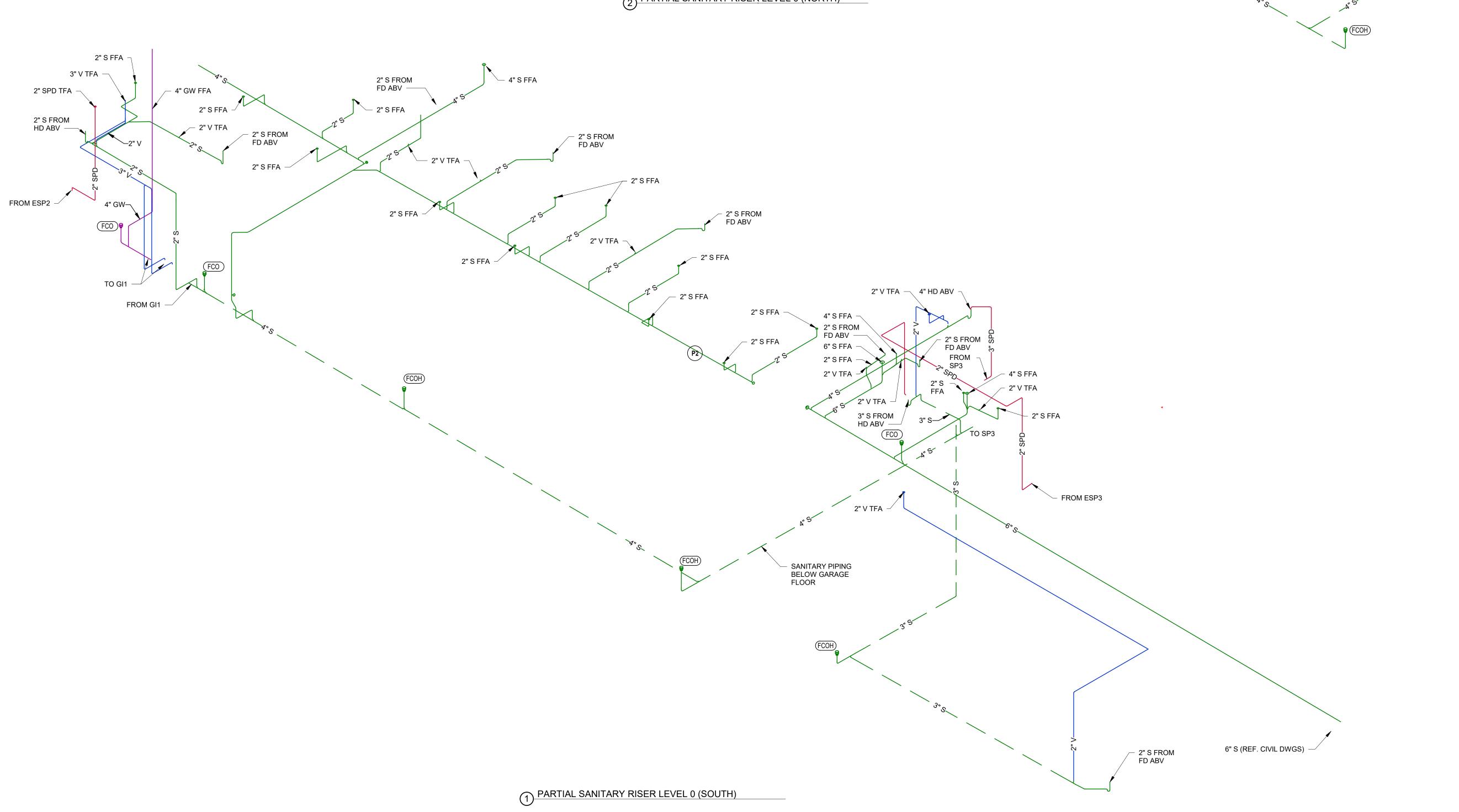
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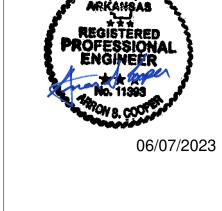
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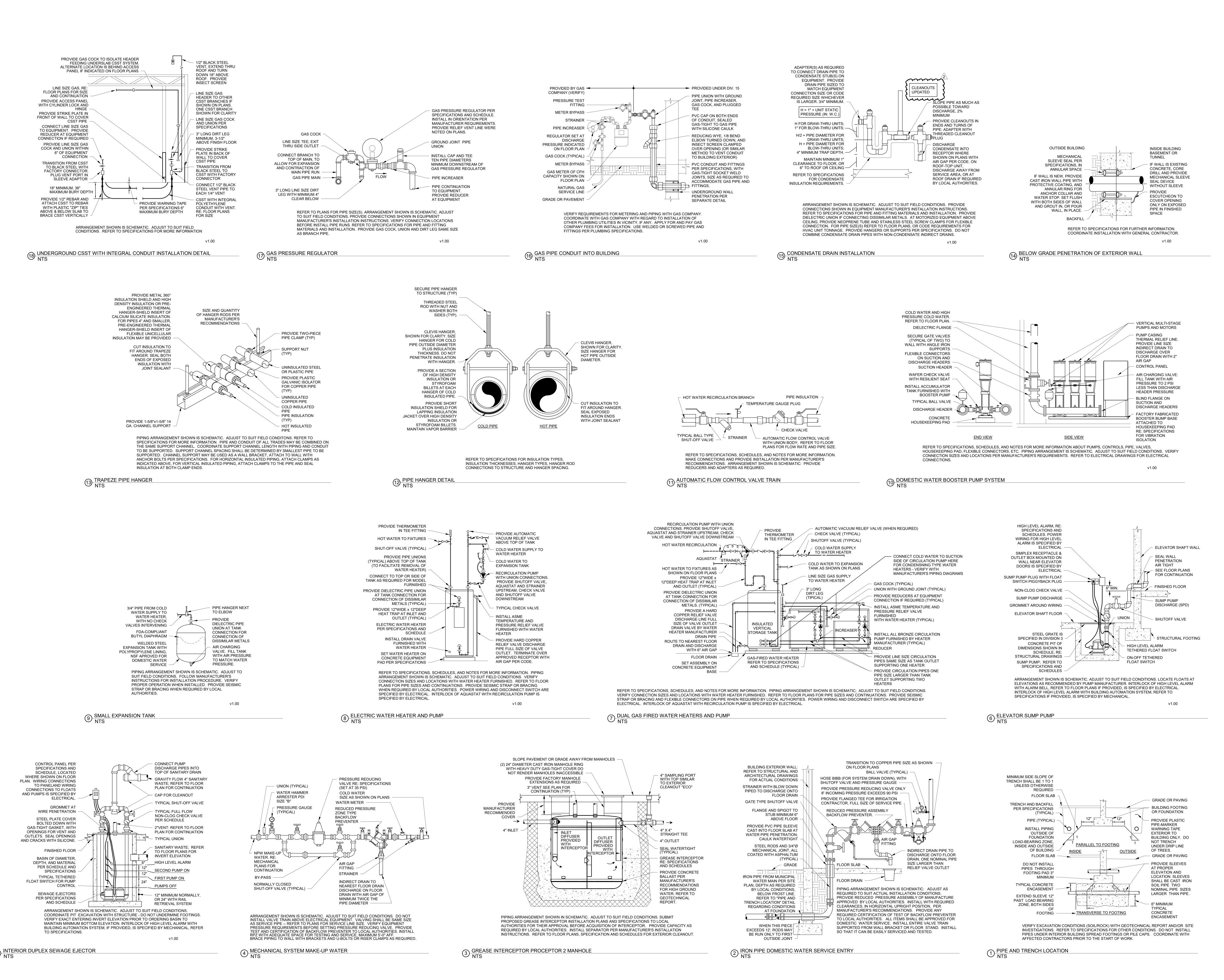
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REVISIONS

06.09.23 Addendum 2

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					DOMESTIC	C BOO	STER P	UMP SCH	EDULE							
MARK	SERVICE	MANUFACTURER /	TYPE	DISCHARGE HEADER	SUCTION HEADER	NUMBER	SYSTEM FLOW	INDIVIDUAL PUMP	SUCTION HEADER	DISCHARGE HEADER	ELECTR	RICAL DATA (N	NOTE B)	ACCUMULATOR	WEIGHT	NOTES
		MODEL #	NOTE A	PRESSURE (PSI)	PRESSURE (PSI)	OF PUMPS	RATE (GPM)	CAPACITY	SIZE (IN.)	SIZE (IN.)	VOLTS	PHASE	HP	TANK SIZE (GAL.)	(LBS)	
BP1	DOMESTIC BOOSTER	GRUNDFOS CRE 15-2	Т	88.9	50.8	3	220	35%	4	4	480	3	5	100	195	A, B, C, D,
JILO.																
B. C. D.	MOTOR HORSEPOWER SHOWN IS F PROVIDE WITH CONTROL PANEL. R MINIMUM DISCHARGE HEADER PRE	EFER TO SPECIFICATIONS FOR MOR	RE INFORMATION				CATIONS FOR MORE	INFORMATION								
A. B. C. D. E.	MOTOR HORSEPOWER SHOWN IS F PROVIDE WITH CONTROL PANEL. R MINIMUM DISCHARGE HEADER PRE	OR ONE PUMP EFER TO SPECIFICATIONS FOR MOF SSURE IS 88.9 PSI	RE INFORMATION				CATIONS FOR MORE			TER PUMP S			·····		سسس	

MARK	MANUFACTURER/ MODEL#	SERVICE FLOW RATE (GPM)	DRAIN FLOW RATE (GPM)	PIPE CONNECTIONS IN/OUT/DRAIN	ELECTRICAL	OPERATING WEIGHT (LBS)	NOTE
WF1	EASYWATER TS-2472-1.5C-TA-NBC-UV-S	30	40	1.5" FNPT CPVC	120 / 7.5A / 60HZ	4,200	A, B
		TO	XINSHIELD FIL	TRATION			
QUANITY	TANK DIMENSIONS	TYPE	VALVE	CONNECTIONS	ELECTRICAL		
2	24" X 72"	TWIN ALTERNATING	1.5" CLACK	1.5" FNPT	SYSTEM SINGLE DISCONNECT		
·		N	O SALT COND	TIONER			
QUANITY	CONTROLLER	TWS			ELECTRICAL		
1	EF-25-IN	TWS-1.5			SYSTEM SINGLE DISCONNECT		
·			UV DISINFEC	TION			
QUANITY	MODEL#	GPM		CONNECTIONS	ELECTRICAL		
1	VIQUA PRO 30	30		1.25" NPT PRE-PIPED	SYSTEM SINGLE DISCONNECT		

\*UTILIZE COLD WATER SIZING CHART

\*UTILIZE COLD WATER SIZING CHART

A. ALL COMPONENTS SHALL BE SKID MOUNTED AS A SINGLE UNIT PRE-PIPED AND PRE-WIRED. PROVIDE ISOLATION VALVES BETWEEN UNIT AND PIPE CONNECTIONS.

		WAT	ER PIPE	SIZING	CHART	(IPC)		
		L	EVEL 0,	LEVEL 1	, LEVEL	. 2		
			FIXTURE	UNITS VS. PRESSUR	RE LOSS			
			IN PSI / 100 F	EET FOR TYPE "L" CO	OPPER TUBE			
		COLD WATER (	@ 5.50 PSI / 100'			НОТ	WATER @ 5.5 PSI	/ 100'
PIPE	INTERNAL	FLUSH TANK	FLUSH VALVE	VELOCITY	FLOW	FLUSH TANK	VELOCITY	FLOW
SIZE	DIAMETER	SFU	SFU	FEET / SEC	GPM	SFU	FEET / SEC	GPM
1/2"	0.545	0.8	N/A	3.5	2.5	*	*	*
3/4"	0.785	3.0	N/A	4.4	6.5	*	*	*
1"	1.025	8.5	N/A	5.2	13.2	8	5	12.8
1-1/4"	1.265	29.4	8.3	5.9	23.1	19.9	5	19.5
1-1/2"	1.505	74.9	22.4	6.6	36.4	45	5	27.7
2"	1.985	252.9	132.9	7.8	75.5	120.9	5	48.2
2-1/2"	2.465	473.6	357.8	8.0	118.9	246.8	5	74.3
3"	2.945	749.1	697.3	8.0	169.8	406	5	106.1
4"	3.905	1764.4	1764.4	8.0	298.6	859.4	5	186.6
6"	5.845	5269.9	5269.9	8.0	669.0	2859.7	5	418.1
8"	7.725	10143.1	10143.1	8.0	1168.6	5653.3	5	730.3

SIZED WITH HAZEN WILLIAMS CONSTANT "C" =

		WAT	ER PIPE	SIZING	CHART	(IPC)		
				LEVEL 3	}			
			FIXTURE	UNITS VS. PRESSUI	RE LOSS			
			IN PSI / 100 F	EET FOR TYPE "L" C	OPPER TUBE			
		COLD WATER (	@ 4.00 PSI / 100'			НОТ	WATER @ 4.0 PS	l / 100'
PIPE	INTERNAL	FLUSH TANK	FLUSH VALVE	VELOCITY	FLOW	FLUSH TANK	VELOCITY	FLOW
SIZE	DIAMETER	SFU	SFU	FEET / SEC	GPM	SFU	FEET / SEC	GPM
1/2"	0.545	0.7	N/A	2.9	2.1	*	*	*
3/4"	0.785	2.3	N/A	3.7	5.5	*	*	*
1"	1.025	6.4	N/A	4.4	11.1	*	*	*
1-1/4"	1.265	19.6	6.8	5.0	19.4	*	*	*
1-1/2"	1.505	55.6	14.6	5.5	30.7	45	5	27.7
2"	1.985	193.1	87.8	6.6	63.6	120.9	5	48.2
2-1/2"	2.465	439.3	323.5	7.6	112.4	246.8	5	74.3
3"	2.945	749.1	697.3	8.0	169.8	406	5	106.1
4"	3.905	1764.4	1764.4	8.0	298.6	859.4	5	186.6
6"	5.845	5269.9	5269.9	8.0	669.0	2859.7	5	418.1
8"	7.725	10143.1	10143.1	8.0	1168.6	5653.3	5	730.3
	,	SIZ	ED WITH HAZEN WILLIA	AMS CONSTANT "C" =	135	*UTILIZE	COLD WATER SIZING	CHART

			WAT	<b>ER PIPE</b>	SIZING	<b>CHART</b>	(IPC)		
					LEVEL 4	1			
İ				FIXTURI	E UNITS VS. PRESSU	RE LOSS			
l				IN PSI / 100 F	EET FOR TYPE "L" C	OPPER TUBE			
			COLD WATER @	0) 3.50 PSI/100'			НОТ	WATER @ 3.5 PSI	/ 100'
Ī	PIPE	INTERNAL	FLUSH TANK	FLUSH VALVE	VELOCITY	FLOW	FLUSH TANK	VELOCITY	FLOW
İ	SIZE	DIAMETER	SFU	SFU	FEET / SEC	GPM	SFU	FEET / SEC	GPM
Ī	1/2"	0.545	0.6	N/A	2.7	1.9	*	*	*
İ	3/4"	0.785	2.1	N/A	3.4	5.1	*	*	*
İ	1"	1.025	5.7	N/A	4.0	10.4	*	*	*
1	1-1/4"	1.265	16.2	6.2	4.6	18.1	*	*	*
	1-1/2"	1.505	48.1	11.9	5.2	28.5	45	5	27.7
1	2"	1.985	171.0	73.7	6.1	59.2	120.9	5	48.2
	2-1/2"	2.465	398.2	276.0	7.0	104.6	246.8	5	74.3
	3"	2.945	734.1	677.1	7.9	167.0	406	5	106.1
	4"	3.905	1764.4	1764.4	8.0	298.6	859.4	5	186.6
	6"	5.845	5269.9	5269.9	8.0	669.0	2859.7	5	418.1
İ	8"	7.725	10143.1	10143.1	8.0	1168.6	5653.3	5	730.3

SIZED WITH HAZEN WILLIAMS CONSTANT "C" =

MEDIUM PRESS	SURE GAS	TOTAL CC	NNECTED NATURAL GAS	LOAD
DIDE CIZINO	CHADT	KITCHEN EQUIPMENT		
PIPE SIZING	CHARI	EQUIPMENT		
PIPE		DESIGNATION	DESCRIPTION	CFH (EACH)
SIZE	LOAD (CFH)	2 40	RANGE/OVEN	243
1/2"	234	2 42	GRIDDLE	120
3/4"	490	2 43	FRYER	145
1"	923	2 45	COMBI STEAMER	152
1-1/4"	1.896		TOTAL =	660
1-1/2"	2.841	MECHANICAL EQUIPMENT		
2"	5,471	EQUIPMENT		
2-1/2"	8.720	DESIGNATION	DESCRIPTION	CFH (EACH)
3"	15,415	B1	HEATING BOILER	1750
4"	31,441	B2	HEATING BOILER	1750
5"	56,881	B3	HEATING BOILER	1750
6"	92.103	WH1	WATER HEATER	199
8"	189.237	WH2	WATER HEATER	199
10"	343,705	GENERATOR	EMERGENCY GENERATOR	2571
12"	544.128	FIREPLACE	FIREPLACE	87
OR SCHEDULE 40 STEEL PIPE	544,120	-	TOTAL =	8306
SPECIFIC GRAVITY OF GAS =	0.60			
UPSTREAM PRESSURE (PSI) =	2		TOTAL CONNECTED LOAD =	8966
DOWNSTREAM PRESSURE (PSI) =	_ 1			
PRESSURE LOSS (PSI) =	1.0	NATURAL GAS SYSTEM OPERATING PF	ESSURE:	2 PSI
TOTAL DEVELOPED	1.0	NATURAL GAS SYSTEM SIZED WITH TO	TAL DEVELOPED LENGTH FROM	
LENGTH (FEET) =	350	GAS METER TO MOST REMOTE PIECE	OF EQUIPMENT:	350 FEET
BASED ON NFPA 54 EQUATION 4-2	550	SYSTEM DESIGN PRESSURE DROP:		1 PSI

		MODEL	VALVE	VALVE BODY	MAX. FLOW	INLET PRESSURE	OUTLET PRESSURE	SERVICE	NOTES
			TYPE	SIZE (INCHES)	RATE (CFH)	(PSI)	(INCHES WATER COLUMN)		
GPR1	PIETRO-FIORENTINI	31051	С	1/2"	552	1	7"	FIREPLACE	A, B, D, E, F, G, H & I
GPR2	PIETRO-FIORENTINI	31151	С	3/4"	1,421	1	7"	WH1 & WH2	A, B, D, E, F, G, H & I
GPR3	PIETRO-FIORENTINI	31053	С	1"	893	1	7"	KITCHEN EQUIPMENT	A, B, D, E, F, G, H & I
GPR4	PIETRO-FIORENTINI	31152	С	1"	1,786	1	7"	BOILERS	A, B, D, E, F, G, H & I
GPR5	PIETRO-FIORENTINI	31153	С	1-1/2"	3,735	1	7"	EMERGENCY GENERATOR	A, B, D, E, F, G, H & I

C = SELF CONTAINED "DIRECT ACTING" DIAPHRAGM TYPE WITH INTERNAL VENT LIMITER DROOP = 1" WATER COLUMN MAXIMUM DROOP = 2" WATER COLUMN MAXIMUM

65# ALUMINUM BODY, SCREWED CONNECTIONS AND OVERPRESSURE PROTECTION TO 25 PSI MAXIMUM FLOW RATE SCHEDULED, MATCH BODY SIZE AND MAXIMUM FLOW RATE TO EQUIPMENT FLOW RATE. REFER TO EQUIPMENT SHOP DRAWINGS FOR EXACT LOADS.

LISTED TO MEET ANSI Z21.80 / CSA 6.22 WITH CSA LISTING STAMP ON REGULATOR BODY GAS PRESSURE REGULATOR INLET PRESSURE = OPERATING PRESSURE - DESIGN FRICTION LOSS

2 PSI MAXIMUM INLET PRESSURE AND 1 PSI MINIMUM INLET PRESSURE

PROVIDE EXTERNAL VENT LIMITER (WHERE APPROVED BY LOCAL AUTHORITIES) FOR INDOOR INSTALLATION AND INSTALL PER SPECIFICATIONS. INSTALL OUTDOORS PER SPECIFICATIONS.

PIPE HEAT TRACE SCHEDULE TOTAL NUMBER OF LENGTH PER PIPE HEAT TEMP. SETTING (°F) MANUFACTURER MODEL# APPLICATION LENGTH (FT) | CIRCUITS | CIRCUIT (FT) | LOSS (W/FT) | ON VOLTS | WATTS FREEZE PROTECTION RAYCHEM 5XL2-CR 5.115 125 FLOW MAINTENANCE 1 B, C, D, E, F RAYCHEM 8XL2-CT RAYCHEM 5XL2-CR FREEZE PROTECTION 3.069 A, C, D, E, F 5XL2-CR FREEZE PROTECTION RAYCHEM A, C, D, E, F A, C, D, E, F RAYCHEM 5XL2-CR FREEZE PROTECTION 2.4 RAYCHEM 5XL2-CR FREEZE PROTECTION 465 40 1 A, C, D, E, F NOTES:

A. POLYOLEFIN OUTER JACKET.

B. FLUOROPOLYMER OUTER JACKET REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. D. REFER TO HEAT TRACE CONTROL PANEL SCHEDULE FOR ADDITIONAL INFORMATION.

COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE WIRING FROM CONTROL PANEL TO JUNCTION BOX ADJACENT TO THE BEGINNING OF THE HEAT TRACE SYSTEM. PRIOR TO BID COORDINATE WITH MANUFACTURER TO DETERMINE REQUIRED COMPONENTS TO COMPLETE THE SYSTEM.

VOLTS PHASE HP MODEL# PRESSURE (PSI) PRESSURE (PSI) | OF PUMPS | RATE (GPM) CAPACITY SIZE (IN.) SIZE (IN.) GRUNDFOS # CRE-PLUS 15-2 80 100% 480 | 3 | 5 ᢧᠬᢇᠬ᠇ᠬ᠇ᠬ᠇ᠬ᠇ᠬ᠇ᠬ᠇ᠬ᠇ᠬ᠇ᠬ᠇ᠬ᠇ᠬ᠇ᠬ᠇ᠬ AMTROL #ST-12 ACCUMULATOR TANK FURNISHED AS PART OF PUMP PACKAGE. FACTORY-MOUNTED DISCONNECT PROVIDED AS PART OF PUMP PACKAGE.

MODEL#         SERVED         MBH         VOLTS         PHASE         FLA         EFFICIENCY (%)         (GPH)         (LBS           WH1         LOCHINVAR #AWN200PM         ENTIRE BUILDING         199         120         1         96         233         181	SHT NO	WEIGHT	RECOVERY	THERMAL	EMENTS	ICAL REQUIR	ELECTR	INPUT	AREA	MANUFACTURER/	MARK
WH1         LOCHINVAR #AWN200PM         ENTIRE BUILDING         199         120         1         96         233         181	3)	(LBS)	(GPH)	EFFICIENCY (%)	FLA	PHASE	VOLTS	MBH	SERVED	MODEL#	
	1 A, (	181	233	96		1	120	199	ENTIRE BUILDING	LOCHINVAR #AWN200PM	WH1
WH2         LOCHINVAR #AWN200PM         ENTIRE BUILDING         199         120         1         96         233         181	1 A, C	181	233	96		1	120	199	ENTIRE BUILDING	LOCHINVAR #AWN200PM	WH2

A. 100° TEMPERATURE RISE WITH 140°F OPERATING TEMPERATURE

C. FURNISHED WITH FACTORY ALL-BRONZE CIRCULATION PUMP D. ULTRA LOW NOx TYPE - RESIDUAL NOX IS LESS THAN 14 ng / joule. COMPLIES WITH SCAQMD RULE 1146.2 E. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT TO MATCH HEATER INPUT.

> **ASME EXPANSION TANK SCHEDULE** MANUFACTURER / MIN. ACCEPTANCE WEIGHT NOTES MODEL# (GALLONS) VOLUME (GALLONS) SETTING (PSI) AMTROL ST-80V-C CHARGE TANK WITH AIR TO IDENTICAL PRESSURE AS STATIC DOMESTIC WATER PRESSURE

1					В.	ASME LABLED							
	E	XPANS	ION TANK S	SCHEDUL	.E				HOT WATER S	TORAGE TA	NK SCH	<b>IEDUL</b>	E
IARK	MANUFACTURER / MODEL #	TANK SIZE (GALLONS)	MIN. ACCEPTANCE VOLUME (GALLONS)	AIR PRESSURE SETTING (PSI)	SERVICE	WEIGHT (LBS)	NOTES	MARK	MANUFACTURER/ MODEL#	AREA SERVED	TANK SIZE (GALLONS)	WEIGHT (LBS)	NOTES
ET1	AMTROL ST-5	2	0.9	60	WHE1	22	Α	ST1	LOCHINVAR # RGA0940	ENTIRE BUILDING	940	2,710	A, B, C, D
ES:								NOTES:					
A.	CHARGE TANK WITH AIR TO	DENTICAL PRESSUF	RE AS STATIC DOMESTIC WAT	ER PRESSURE.				A. B.	REFER TO SPECIFICATIONS FOR MI 150# ASME TANK	ORE INFORMATION			
								С	VERTICAL TANK				

MARK	MANUFACTURER/	AREA	TANK SIZE	ELE	CTRICAL D	ATA	RECOVERY	WEIGHT	NOTE
	MODEL#	SERVED	(GALLONS)	VOLTS	PHASE	KW	(GPH)	(LBS)	
WHE1	A. O. SMITH DRE 52	LEVEL 3 LOCKER RM	50	480	3	36.0	147	665	A,

D WITH FACTORY PROVIDED INSULATION AND METAL JACKET

A. 20° TEMPERATURE RISE WITH 140°F OPERATING TEMPERATURE FED FROM BUILDING HOT WATER SYSTEM. WITH BALANCED THREE PHASE CIRCUIT

			PLENUM RATED	MAX. LOAD SERVED	FLOWRATE	HEAD	SHUTOFF	RESERVOIR		ELEC DATA		
MARK	MANUFACTURER / MODEL#	LOCATION	(Y/N)	(NOMINAL COOLING TONS)	GAL/HR	(FT WG)	HEAD (FT WG)	SIZE (GAL.)	HP	FLA @120V	FLA @230V	NOT
CP1	LITTLE GIANT / VCMA-20ULS	STORAGE RM 2404	N	12	40	12	20	0.5	1/30	1.5	0.5	A,B,C
01 1	ETTTLE GIART / VOINA-200E0	OTOTOTOL RIVI 2404	IV.	12	40	12	20	0.0	1700	1.0	0.0	

REFER TO ELECTRICAL PLANS FOR ELECTRICAL JUNCTION BOX LOCATION. B. PROVIDE WITH HIGH LEVEL SAFETY SWITCH OR PUMP FAILURE SAFETY SWITCH.

E. PUMP SHALL BE TESTED AND LABELLED PER UL STANDARD 2043 FOR USE IN A RETURN AIR PLENUM.

FOR NON-CRITICAL COOLING APPLICATIONS, COORDINATE INTERLOCK OF SAFETY SWITCH WITH MECHANICAL FAN COIL UNIT TO SHUT DOWN UNIT IN THE EVENT OF HIGH LIQUID LEVEL IN RESERVOIR OR PUMP FAILURE.

FOR CRITICAL COOLING APPLICATIONS, COORDINATE INTERLOCK OF SAFETY SWITCH TO SIGNAL AN ALARM AT THE BAS IN THE EVENT OF HIGH LIQUID LEVEL IN RESERVOIR OR PUMP FAILURE. MAXIMUM VOLTAGE FOR SAFETY SWITCH (HIGH LEVEL OR PUMP FAILURE) IS 24 VOLTS (CLASS 2 LOW VOLTAGE CIRCUIT).

D. LOCATE RESERVOIR BELOW THE DRAIN OUTLET OF CDB OR HVAC UNIT SERVED TO ALLOW FREE DRAINAGE BY GRAVITY INTO THE PUMP'S RESERVOIR. LOCATE PUMP IN AN ACCESSIBLE LOCATION PER MANUFACTURER'S INSTRUCTIONS.

> RECIRCULATION PUMP SCHEDULE IMPELLER MANUFACTURER / MODEL# SIZE (IN.) VOLTS PHASE HP NOTES LOCATION SIZE RP1 BELL & GOSSETT # 60 - 1AA MECHANICAL 0124 1 1/4" 120 1 1/3 A, B, C, D 4.84 120 1 1/3 A, B, C, D RP2 BELL & GOSSETT # 60 - 1AA MECHANICAL 0124 1 1/4" N/A 120 1 1/6 A, B, C, D RP3 BELL & GOSSETT # PR PLUMBING 3506

A. ALL LEAD FREE CAST BRONZE BOOSTER. B. PROVIDE WITH STRAINER UPSTREAM OF PUMP

C. PROVIDE ADJUSTABLE. SURFACE MOUNTED AQUASTAT - HONEYWELL L6006C D. SET AQUASTAT TO SHUT OFF RECIRCULATION PUMP AT WATER HEATER SET POINT AND ON AT 10F BELOW SET POINT

SUMP PUMP SCHEDULE										
MARK	MANUFACTURER/	MODEL#	AREA SERVED	GPM	HEAD	DISCHARGE	ELECTRICAL			NOTES
					(FT.)	SIZE (IN.)	VOLTS	PH	HP	
SP1	WEIL	2532-1150	GARAGE & MECH YARD	924	33	6	460	3	20	B, C, D, E, H, I, J
SP2	ZOELLER	14292	LEVEL 0 MECH ROOM	35	30	2	208	1	1/2	A, C, D, F, H, I, J
SP3	ZOELLER	14292	CAFÉ GI1/MECH RM 0112	35	30	2	208	1	1/2	A, C, D, G, H, I, J

A. PROVIDE WITH DUPLEX CONTROL PANEL, REFER TO SPECIFICATIONS FOR MORE INFORMATION. DISCONNECT IS PROVIDED BY DIVISION 26. PROVIDE WITH WEIL #8194V DUPLEX VFD CONTROL PANEL, REFER TO SPECIFICATIONS FOR MORE INFORMATION. PROVIDE DISCHARGE PIPING, FULL PORT BALL VALVE AND NON-CLOG CHECK VALVE.

REFER TO DETAIL FOR MORE INSTALLATION INFORMATION. 5'-0" X 5'-0", 15'-0" DEEP CONCRETE BASIN, RE: STRUCTURAL DRAWINGS

F. 4'-0" X 4'-0", 11'-0" DEEP CONCRETE BASIN, RE: STRUCTURAL DRAWINGS G. 4'-0" X 4'-0". 9'-0" DEEP CONCRETE BASIN, RE: STRUCTURAL DRAWINGS

H. INFORMATION IS FOR ONE PUMP, PROVIDE DUPLEX SYSTEM FURNISH WITH RAIL RETRIEVAL SYSTEM PER PUMP MANUFACTURER'S RECOMMENDATIONS.

PROVIDE BILCO KD-2 48" X 48" DOOR OVER PIT.

MARK	MANUFACTURER	MODEL#	GPM	HEAD (FT.)	DISCHARGE SIZE (IN.)	E	NOTES		
						VOLTS	PH	HP	NOTES
ESP1	ZOELLER	N139	50	11	2"	120	1	1/2	A, B, C, D &
ESP2	ZOELLER	N140	50	25	2"	120	1	1	A, B, C, D &
ESP3	ZOELLER	N140	50	22	2"	120	1	1	A, B, C, D &
NOTES:			<u> </u>	1		1			
A.	PROVIDE ZOELLER VA	RIABLE LEVEL (	CONTROL S	WITCHES.					
B.	PROVIDE ZOELLER CO	NTROL ALARM	SYSTEM.						
C.	PROVIDE 2" DISCHARO	SE PIPING, SHU	TOFF VALVI	E AND ZOELI	ER #30-0030 FLAI	PPER NON-C	CLOG CHEC	CK VALVE.	
D.	REFER TO DETAIL FOR	MODE INICTAL	I ATION INE	ODMATION					

INSTALL IN 24" SQUARE x 24" DEEP SUMP PIT LOCATED IN ELEVATOR PIT, SEE ARCHITECTURAL DRAWINGS.

HEAT TRACE CONTROL PANEL SCHEDULE											
			DEVICE SERVED		E	ELECTRICAL DATA					
MARK	MANUFACTURER	MODEL#	SERVED	QUANTITY	WATTS	VOLTS	PHASE	NOTES			
HTCP1	RAYCHEM	# C910-485	HT1	1	2839	277	1	A-G			
HTCP2	RAYCHEM	# C910-485	HT2	1	864	277	1	A-G			
HTCP3	RAYCHEM	# C910-485	HT3	1	4600	277	1	A-G			
HTCP4	RAYCHEM	# C910-485	HT4	1	3805	277	1	A-G			
HTCP5	RAYCHEM	# C910-485	HT5	1	3805	277	1	A-G			
HTCP6	RAYCHEM	# C910-485	HT6	2	3805	277	1	A-G			
NOTES:											

A. NEMA 4X FRP ENCLOSURE WITH GROUND FAULT CIRCUIT PROTECTION. B. LED DISPLAY AND KEYPAD INTERFACE. . ALARM LIGHTS FOR HIGH AND LOW TEMPERATURE, CURRENT AND GROUND FAULT.

D. DRY ALARM CONTACTS FOR INTERLOCK WITH BUILDING MANAGEMENT SYSTEM.

E. PROVIDE WITH # RTD4AL REMOTE TEMPERATURE DEVICE AND # RTD-200 STAINLESS STEEL CABLE, LENGTH AS REQUIRED. MOUNT REMOTE TEMPERATURE SENSING DEVICE ON PIPE UNDER INSULATION. REFER TO PLANS FOR LOCATION(S) AND QUANTITY. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING FROM CONTROL

PANEL TO JUNCTION BOX WHERE HEAT TAPE SYSTEM BEGINS. G. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

PLUMBING FIXTURE SCHEDULE PLAN MARK AIR ADMITTANCE VALVE; STUDOR "MINI-VENT" # 20301, MEETING ASSE 1051 TYPE "A". POLYSTYRENE PROTECTIVE COVER, ABS VALVE WITH ELASTROMERIC MEMBRANE AND PVC CONNECTOR, 2" INLET, AND ATMOSPHERIC PORT AREA DRAIN: JAY R. SMITH # 2120L (-M), CAST IRON BODY, HEAVY-DUTY, 8" DIAMETER, DUCTILE IRON GRATE. SEEPAGE PAN. AND MEMBRANE FLASHING CLAMP. USE PUSH-ON JOINT OR CAULK OUTLET OF SIZE AS SHOWN ON PLANS. PARKING DECK DRAIN: JAY R. SMITH #1416 (-S) (-M) (-C), CAST IRON BODY. HEAVY-DUTY, 14" SQUARE, DUCTILE IRON GRATE, SEEPAGE PAN, MEMBRANE FLASHING CLAMP, AND FIXED EXTENSION, AND UNDERDECK CLAMP. USE NO-HUB OUTLET OF SIZE AS SHOWN ON PLANS. FIXED EXTENSION SHALL SET TOP OF GRATE AT FINISHED DECK SLAB. REFER TO ARCHITECRUALY AND STRUCTURAL DRAWINGS FOR EXACT THICKNESS OF SLAB. GARAGE FLOOR DRAIN: JAY R. SMITH # 2120, CAST IRON BODY, 8-1/2" ROUND, LOOSE, EXTRA HEAVY DUTY. CAST IRON HEEL PROOF GRATE, SEDIMENT BUCKET, BOTTOM OUTLET. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS. AIR FILTER: HANKISON # HF-7-20-4-G PARTICULATE CARTRIDGE TYPE WITH METAL HOUSING AND DIFFERENTIAL PRESSURE INDICATOR. FILTER SHALL BE CAPABLE OF REMOVING PARTICLES TO 1 MICRON AND OIL TO 1 PPM AT 60 SCFM AT 100PSI. AIR HOSE: LINCOLN # 84606 SELF COILING AIR HOSE OF 25 FEET IN LENGTH WITH 1/4" MNPT INLET AND OUTLET AND A WORKING PRESSURE OF 200 PSIG. PROVIDE ACCESS PANEL: JAY R. SMITH # 4762 - 12" x 12" - CL, TYPE 304 STAINLESS STEEL PANEL AND FRAME WITH CONCEALED HINGE, KEY OPERATED CYLINDER LOCK. PROVIDE WITH NAILER SLOTS FOR INSTALLATION IN STUD WALLS AND ANCHOR STRAPS FOR INSTALLATION IN MASONRY CONSTRUCTION. ACCESS PANEL: JAY R. SMITH # 4767 - 12" x 12" - CL, TYPE 304 STAINLESS STEEL PANEL AND FRAME WITH CONCEALED HINGE, KEY OPERATED CYLINDER LOCK, AND 1/4" SLOTS FOR INSTALLATION IN PLASTER OR WET WALL CONSTRUCTION. ACCESS PANEL: JAY R. SMITH # 4762 - 18" x 18" - CL. TYPE 304 STAINLESS STEEL PANEL AND FRAME WITH CONCEALED HINGE, KEY OPERATED CYLINDER LOCK. PROVIDE WITH NAILER SLOTS FOR INSTALLATION IN STUD WALLS AND ANCHOR STRAPS FOR INSTALLATION IN MASONRY CONSTRUCTION. ACCESS PANEL: JAY R. SMITH # 4767 - 18" x 18" - CL, TYPE 304 STAINLESS STEEL PANEL AND FRAME WITH CONCEALED HINGE, KEY OPERATED CYLINDER LOCK, AND 1/4" SLOTS FOR INSTALLATION IN PLASTER OR WET WALL CONSTRUCTION. ACCESS PANEL: JAY R. SMITH # 4767 - 24" x 24" - CL. TYPE 304 STAINLESS STEEL PANEL AND FRAME WITH CONCEALED HINGE, KEY OPERATED CYLINDER LOCK, AND 1/4" SLOTS FOR INSTALLATION IN PLASTER OR WET WALL CONSTRUCTION. BACK WATER VALVE WITH REMOVABLE FLAPPER: CLEAN CHECK INC. PVC FLAPPER ASSEMBLY TYPE. WITH PVC BODY WITH SOCKET CONNECTIONS, PVC EXTENSION LENGTH AS REQUIRED AND PVC PLUGGED COVER CONNECTION. PROVIDE WITH JAY R. SMITH #4250 SERIES DUCO CAST IRON DOUBLE FLANGED HOUSING WITH SECURED SCORIATED COVER WITH LIFTING DEVICE, LESS CLEANOUT FERRULE. REFER TO DETAIL AND SPECIFICATION FOR INSTALLATION. BACK WATER VALVE: JAY R. SMITH # 7140Y04 AUTOMATIC HYDRAULICALLY ACTUATED TYPE WITH 304 STAINLESS STEEL KNIFE GATE, "O"-RING SEALS, CAST IRON BODY WITH "NO-HUB" CONNECTIONS, PVC BELLOWS WITH POLYETHYLENE COVER, PROVIDE WITH J.R. SMITH # FG36S POLYPROPYLENE VALVE PIT WITH 28" DIAMETER STEEL COVER. CONDENSATE DRAIN BOX: SIOUX CHIEF "OXBOX" MODEL # 696-3 OUTLET BOX, MODEL #696-CF SECONDARY DRAINAGE FUNNEL AND #696-SC SOLID COVER PLATE. DOUBLE CHECK VALVE BACKFLOW PREVENTER: WATTS # LF007QT-S, MEETING ASSE 1015, LEAD FREE CAST BRONZE BODY, SCREW DRIVER SLOTTED TEST COCKS, QUARTER TURN BALL VALVES, AND STRAINER. SLAB. PROVIDE PIPE ADAPTOR AS REQUIRED. DOWNSPOUT NOZZLE: JAY R. SMITH # 1770T, CAST BRONZE BODY AND FLANGE. PROVIDE OUTLET SIZE AS SHOWN ON PLANS. EXTERIOR CLEANOUT: JAY R. SMITH # 4261L SERIES DUCO CAST IRON DOUBLE AND PUSH-ON JOINT. REFER TO SPECIFICATIONS FOR INSTALLATION.

DOWNSPOUT BOOT: NEENAH FOUNDRY 4929 4X6 DOWNSPOUT SHOE WITH 45 DEGREE DISCHARGE SPIGOT. MOUNT TO COLUMN SO THAT DISCHARGE IS ABOVE CONCRETE FLANGED HOUSING WITH HEAVY DUTY SECURED SCORIATED CAST IRON COVER WITH I IFTING DEVICE AND CLEANOUT BODY WITH ABS PLASTIC PLUG WITH GASKET SEAL DECK-MOUNTED EMERGENCY EYE WASH: GUARDIAN # G1805, TWO GS-PLUS SPRAY HEADS WITH SELF REGULATING FLOW CONTROL AND DUST COVERS, REFER TO PLANS FOR RIGHT AND LEFT SIDE MOUNTING, CHROME-PLATED BRASS DECK FLANGE, AND EMERGENCY MIXING VALVE: POWERS # ES150-AF05012, BRONZE BODY WITH ROUGH BRONZE FINISH. MEE IING ASSE 1071. CORROSION RESISTANT INTERNAL PARTS CHECK STOPS WITH REMOVABLE STRAINERS, DUAL INTERNAL COLD WATER BYPASS, PARAFFIN FILLED TEMPERATURE ELEMENT, DIAL THERMOMETER ON OUTLET, CAPABLE OF 4 GPM WITH A 5 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 1.0 GPM. AND STAINLESS STEEL WALL-MOUNTED CABINET. MAXIMUM TEMPERATURE STOP SET FOR EWC ELECTRIC WATER COOLER (ADA ACCESSIBLE): FILTRINE MODEL B103-107-16-MOD-HL RECESSED BOTTLE FILLING STATION WITH HIGH/LOW NON-RECESSED DRINKING FOUNTAINS. SATIN STAINLESS STEEL, WITH HANDS-FREE SENSORS. UNIT SHALL BE CONNECTED TO BUILDING FILTERED WATER SYSTEM. TRIM: McGUIRE # LF2165CC LEAD FREE BRASS COMPRESSION ANGLE STOP VALVE WITH RISER AND ESCUTCHEON, McGUIRE # B8872CF 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ELECTRICAL REQUIREMENTS: 120V RECEPTICLE FOR HANDS FREE POWER

CONVERSION. FLEXIBLE CONNECTOR: UNITED FLEXIBLE #AFBX1, 4" X 12" LONG CORRUGATED 316L STAINLESS STEEL BELLOWS AND 304 STAINLESS STEEL SINGLE BRAID WITH CLASS 150 STAINLESS STEEL WELDED PLATE FLANGE ON EACH PIPE WITH A MAXIMUM OPERATING PRESSURE OF 261 PSI. FC2 FLEXIBLE CONNECTOR: UNITED FLEXIBLE #AFBX1, 2" X 12"LONG CORRUGATED 316L STAINLESS STEEL BELLOWS AND 304 STAINLESS STEEL SINGLE BRAID WITH MALE NPT THREADED CONNECTIONS WITH INTREGRAL HEX AND WITH A MAXIMUM OPERATING PRESSURE OF 425 PSI.

FLOOR CLEANOUT: JAY R. SMITH, CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE, ROUND, SECURED, NICKEL BRONZE TOP. #4031L (-F-C), SCORIATED TOP FOR EXPOSED, FLUSH WITH FINISHED FLOOR. APPLICATION(S), # 4031L (-F-C-Y), STAINLESS STEEL MARKER FOR INSTALLATION IN CARPETED FLOOR AREA(S), # 4151 (-F-C), 1/8" RECESS FOR INSTALLATION IN TILED FLOOR AREA(S), #4191 (-F-C), 1/2" RECESS FOR INSTALLATION IN TERRAZZO AND SIMILAR POURED FLOOR AREA(S). REFER TO SPECIFICATIONS FOR INSTALLATION. FCOH FLOOR CLEANOUT - HEAVY DUTY: JAY R. SMITH # 4111L CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE, ROUND, SECURED. HEAVY DUTY SCORIATED NICKEL BRONZE TOP. REFER TO SPECIFICATIONS FOR INSTALLATION. FLOW CONTROL VALVE: FLOWDESIGN # ICSS "AUTOFLOW", SERIES 300 STAINLESS

UNION BODY WITH NICKEL PLATED UNION NUT, STAINLESS STEEL PRESSURE COMPENSATING CARTRIDGE, MEETING NSF 61 ANNEX G, NAMEPLATE AND 1/2" VALVE BODY SIZE UNLESS SHOWN OTHERWISE ON PLANS. PROVIDE 0.5 GPM FLOW RATE CARTRIDGE UNLESS SHOWN OTHERWISE ON PLANS. FLOOR DRAIN: JAY R .SMITH # 2005L (-A), CAST IRON BODY AND CLAMPING COLLAR, ADJUSTABLE 6" ROUND NICKEL BRONZE STRAINER. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS. TRAP SEAL: PROVIDE TRAP SEAL PER SPECIFICATIONS FOR ACTUAL FLOOR DRAIN MODEL AND SIZE. EQUIPMENT FLOOR DRAIN: JAY R. SMITH # 2220L, CAST IRON BODY AND FLASHING COLLAR, 8-1/2" ROUND, VANDAL PROOF, HEAVY DUTY, DUCTILE IRON GRATE, SEDIMENT BUCKET, BOTTOM OUTLET, SEEPAGE PAN, AND MEMBRANE FLASHING CLAMP. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS. TRAP PRIMER: PROVIDE TRAP PRIMER PER SPECIFICATIONS FOR ACTUAL FLOOR DRAIN MODEL AND SIZE.

FLOOR DRAIN: JAY R. SMITH # 2005L (-A), BRONZE BODY AND CLAMPING COLLAR. ADJUSTABLE 6" SQUARE CHROME PLATED STRAINER. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS TRAP SEAL: PROVIDE TRAP SEAL PER SPECIFICATIONS FOR ACTUAL FLOOR DRAIN MODEL AND SIZE. FS1 FLOOR SINK: JAY R. SMITH # 3141L (-12), 6" DEEP CAST IRON BODY WITH ACID RESISTING ENAMELED INTERIOR, ANCHOR FLANGE WITH SEEPAGE HOLES, CLAMP COLLAR, WHITE ABS SEDIMENT BUCKET, AND 12-1/2" SQUARE NICKEL BRONZE RIM AND HALF GRATE. USEPUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS. PVC FLOOR SINK: SIOUX CHIEF # 861-X-P-C-2-861-UM SERIES WITH 6" DEEP SQUARE PVC BODY WITH PVC SOCKET OUTLET, ANCHOR FLANGE, CLAMP COLLAR, STAINLESS STEEL MESH STRAINER, 12" SQUARE PVC HALF GRATE. PROVIDE A P-TRAP, SIZE OF TRAP AND WASTE ARM AS SHOWN ON PLANS. GAS APPLIANCE CONNECTOR: T & S BRASS # HG-4X-36 SERIES, THREE FOOT LONG BRAIDED STAINLESS STEEL HOSE WITH COATING APPROVED FOR FOOD SERVICE. QUICK DISCONNECT, GAS BALL VALVE, UNION, STREET ELBOW AND RESTRAINING CABLE. GAS APPLIANCE CONNECTOR KIT SHALL BE AGA DESIGN CERTIFIED FOR USE AS A GAS APPLIANCE CONNECTOR AND LINE SIZE AS INDICATED ON THE DRAWINGS. GARBAGF DISPOSER: IN-SINK-ERATOR "BADGER 5" RESIDENTIAL DISPOSER WITH 1/2

CUTTING ELEMENT, AND PERMANENTLY LUBRICATED UPPER AND LOWER BEARINGS. TRIM: WASTE DISCHARGE KIT AND DISHWASHER TAIL PIECE. ELECTRICAL REQUIREMENTS: 120-VOLT, 6.9 FULL LOAD AMPS. GLASS FILLER FAUCET – CHICAGO FAUCETS # 712-ABCP SINGLE HOLE DECK MOUNTED, 1.55 GPM GLASS FILLER HANDLE ASSEMBLY. MOUNT AT RIGHT SIDE OF GREASE INTERCEPTOR: GREENTURTLE PROCEPTOR GMC 2000 UPC, FIBERGLASS REINFORCED PLASTICS BODY, SINGLE BAFFLE DESIGN, 2000 GALLON CAPACITY AND

H.P. MOTOR WITH POWER CORD. PLASTIC GRIND CHAMBER. GALVANIZED STEEL

RATED FOR 1,154 GALLONS OF GREASE STORED, WITH (2) 24" GASKETED, AASHTO

H-20 LOAD RATED COVER WITH EXTENSIONS. TRAPPED INLET AND OUTLET AND (2) 3 VENT CONNECTIONS. EXTEND CLEANOUTS TO GRADE. UNIT SHALL INCLUDE 30 YEAR WARRANTY AGAINST LEAKS AND STRUCTURAL FAILURE. .S SOLENOID VALVE: ASCO # 8214 UL LISTED AND FM APPROVED FOR NATURA SERVICE, ALUMINUM BODY WITH GENERAL PURPOSE ENCLOSURE, FNPT CONNECTIONS, BUNA "N" SEAL, DIAPHRAGM AND DISC, 120V SINGLE PHASE, NORMALLY CLOSED TYPE, MOLDED EPOXY SOLENOID COVER, CLASS "F" COIL FOR Lung CONTINUOUS DUTY management and a continuous and a co HOSE BIBB: PRIER PRODUCTS # C-258CP.75. POLISHED CHROME PLATED BRASS MALE INLET, 3/4" THREADED HOSE CONNECTION, LOOSE KEY HANDLE, AND ASSE 1011 INTEGRAL VACUUM BREAKER.

HUB DRAIN: PROVIDE A P-TRAP BELOW FINISHED FLOOR AND STUB THE BELL END OF PIPE 4" ABOVE FINISHED FLOOR. SIZE AS SHOWN ON FLOOR PLAN(S). ICE MAKER BOX: GUY GRAY MODEL # BIM875, 20 GAUGE GALVANIZED STEEL BOX, 18 GAUGE STEEL FACEPLATE, BOTTOM INLET WATER SUPPLY WITH LEAD FREE 1/2" x 1/4" | COMPRESSION ANGLE STOP VALVE. TRIM: LOOP 4 FEET OF 1/4" TYPE "K" SOFT COPPER TUBING AND PROVIDE EQUIPMENT CONNECTION.

GAUGE STEEL FACEPLATE, BOTTOM INLET WATER SUPPLY WITH LEAD FREE 1/2" x 1/4" COMPRESSION ANGLE STOP VALVE. TRIM: LOOP 4 FEET OF 1/4" TYPE "K" SOFT COPPER TUBING AND PROVIDE EQUIPMENT JANITOR'S SINK: STERN-WILLIAMS # MTB-2424, 24" x 24" x 10" HIGH TERRAZZO BASIN WITH INTEGRAL STAINLESS STEEL DRAIN BODY. FAUCET: ZURN "AQUASPEC" # Z843M4-XL-CS FAUCET WITH WALL BRACE, CHECK STOPS, INTEGRAL VACUUM BREAKER, PAIL HOOK, AND 3/4" MALE HOSE THREADED OUTLET. SECURE FAUCET IN WALL WITH BACKBOARD. TRIM: STERN-WILLIAMS # BP TYPE 304, 20 GAUGE, STAINLESS STEEL WALL SURROUNDS, # T-35 THREE FOOT LONG REINFORCED HOSE WITH 3/4" CHROME COUPLING AND WALL HOOK, # V-70 EXTRUDED VINYL BUMPER GUARD, AND # T-40 24"

ICE MAKER BOX: GUY GRAY MODEL # BIM875, 20 GAUGE GALVANIZED STEEL BOX, 18

STAINLESS STEEL MOP HANGER. JANITOR'S SINK: STERN-WILLIAMS # SBC-1550, 36" x 36" x 12" HIGH, CORNER MODEL. TERRAZZO BASIN WITH ONE PIECE STAINLESS STEEL CAP AND INTEGRAL STAINLESS STEEL DRAIN BODY FAUCET: ZURN "AQUASPEC" # Z843M4-XL-CS FAUCET WITH WALL BRACE. CHECK STOPS, INTEGRAL VACUUM BREAKER, PAIL HOOK, AND 3/4" MALE HOSE THREADED OUTLET. SECURE FAUCET IN WALL WITH BACKBOARD. TRIM: STERN-WILLIAMS # BP TYPE 304, 20 GAUGE, STAINLESS STEEL WALL SURROUNDS, # T-35 THREE FOOT LONG REINFORCED HOSE WITH 3/4" CHROME COUPLING AND WALL HOOK, # V-70 EXTRUDED VINYL BUMPER GUARD, AND # T-40 24"

STAINLESS STEEL MOP HANGER. UNDERCOUNTER LAVATORY (ADA ACCESSIBLE): KOHLER # K-21058 "BRAZN" 21-5/16" X 16-3/8" RECTANGLE WHITE VITREOUS CHINA FIXTURE WITH OVERFLOW BRASS DRAIN AND COLOR-MATCHED BRASS DRAIN COVER FAUCET: STERN CSABA TOUCHLESS DECK MOUNTED FAUCET, SENSOR OPERATED WITH DUAL POWER INPUT BOX WITH 9V BATTERY (BATTERY NOT INCLUDED), POLISHED TRIM: McGUIRE # 155A GRID DRAIN WITH TAILPIECE, McGUIRE # LF2165CCLK LEAD FREE BRASS LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND FSCUTCHEONS, McGUIRE # B8872CF 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, PLUMBEREX "PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES.

WALL-MOUNTED LAVATORY (ADA ACCESSIBLE): KOHLER K-2084 20" X 18" WHITE VITREOUS CHINA FIXTURE WITH SINGLE HOLE FAUCET LEDGE AND OVERFLOW. FAUCET: ZURN AQUASENSE Z6918-XL CHROME PLATED CAST BRASS 1.5 GPM VANDAL RESISTANT AERATOR, BATTERY POWERED TOUCHLESS SENSOR TRIM: McGUIRE # 155A GRID DRAIN WITH TAILPIECE, McGUIRE # LF2165CCLK LEAD FREE BRASS LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # B8872CF 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR, PLUMBEREX

"PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES.

PLUMBING FIXTURE SCHEDULE

PLAN MARK

NON-FREEZE WALL HYDRANT: PRIER PRODUCTS # C-634NBX1, SATIN NICKEL PLATED BRASS 1" MALE INLET BY 3/4" FEMALE INLET, 3/4" THREADED HOSE CONNECTION. LOOSE KEY HANDLE, HYDRANT LENGTH AS REQUIRED FOR INSTALLED WALL THICKNESS, ADJUSTABLE WALL CLAMP, BRASS BOX WITH SATIN NICKEL PLATED FINISH AND INTEGRAL ASSE 1052 DOUBLE CHECK VACUUM BREAKER. OVERFLOW ROOF DRAIN: JAY R. SMITH # 1830Y (-E-C2-CID), 8 1/2" DIAMETER CAST IRON BODY, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, SUMP RECEIVER, HUBLESS OUTLET, FIXED EXTENSION – HEIGHT AS REQUIRED BY INSTALLED INSULATION THICKNESS, CAST IRON DOME BOLTED OR LOCKED DOWN AND 2" HIGH WATER DAM. PROVIDE OUTLET SIZE AS SHOWN ON PLANS OVERFLOW ROOF DRAIN: JAY R. SMITH # 1850Y (-E-C2-CID), 12" DIAMETER CAST IRON BODY, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, SUMP RECEIVER. HUBLESS OUTLET, FIXED EXTENSION - HEIGHT AS REQUIRED BY INSTALLED INSULATION THICKNESS, CAST IRON DOME BOLTED OR LOCKED DOWN AND 2" HIGH WATER DAM. PROVIDE OUTLET SIZE AS SHOWN ON PLANS. PLANTER DRAIN: JAY R. SMITH # 1901Y. 15" DIAMETER CAST IRON BODY. FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, SUMP RECEIVER, HUBLESS OUTLET. FIXED EXTENSION - HEIGHT AS REQUIRED BY INSTALLED INSULATION THICKNESS, AND CAST IRON DOME BOLTED OR LOCKED DOWN. PROVIDE OUTLET SIZE AS SHOWN

AND UNDERDECK CLAMP. USE HUBLESS OUTLET OF SIZE AS SHOWN ON PLANS. PRESSURE REDUCING VALVE: WATTS # LF223. BRONZE BODY. STAINLESS STEEL SEAT. STAINLESS STEEL BOLTS. INLET AND OUTLET SIZE AS SHOWN ON PLANS. 25 - 75 PSI REDUCED PRESSURE RANGE. SET OUTLET PRESSURE TO XX PSI WITH FLOW RATE OF YY GPM AT A FALL OFF PRESSURE OF ZZ PSI DIFFERENTIAL QUICK DISCONNECT: GRACO #110199 FEMALE COUPLER WITH 1/2" FNPT INLET AND GRACO # 168970 MALE NIPPLE WITH 1/2" MNPT OUTLET OF BRASS CONSTRUCTION. ROOF DRAIN: JAY R. SMITH # 1830Y (-E-C2-CID), 8 1/2" DIAMETER CAST IRON BODY. FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, SUMP RECEIVER, HUBLESS OUTLET, FIXED EXTENSION – HEIGHT AS REQUIRED BY INSTALLED INSULATION THICKNESS, CAST IRON DOME BOLTED OR LOCKED DOWN. PROVIDE OUTLET SIZE AS SHOWN ON PLANS.

PROMENADE DECK DRAIN: JAY R. SMITH # 1446Y CAST IRON BODY, 14" SQUARE, CAST IRON SECURED GRATE, FLASHING CLAMP WITH SEEPAGE SLOTS, FIXED EXTENSION

ROOF DRAIN: JAY R. SMITH # 1850Y (-E-C2-CID). 12" DIAMETER CAST IRON BODY. FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, SUMP RECEIVER, HUBLESS OUTLET. FIXED EXTENSION – HEIGHT AS REQUIRED BY INSTALLED INSULATION THICKNESS, CAST IRON DOME BOLTED OR LOCKED DOWN. PROVIDE OUTLET SIZE AS SHOWN ON PLANS. RPZ1 REDUCED PRESSURE ZONE BACKFLOW PREVENTER: WATTS # 957-NRS, 4" MEETING ASSF 1013, 304 STAINLESS STEEL BODY AND SLEEVE, QUARTER TURN TEST COCKS, COATED CAST IRON STRAINER AND # 957AG AIR GAP FITTING

RESILIENT SEATED NON-RISING STEM GATE VALVES AND WATTS #77F-DI-FDA EPOXY REDUCED PRESSURE ZONE BACKFLOW PREVENTER: WATTS # 957-NRS. 3" MEETING ASSE 1013, 304 STAINLESS STEEL BODY AND SLEEVE, QUARTER TURN TEST COCKS, RESILIENT SEATED NON-RISING STEM GATE VALVES AND WATTS #77F-DI-FDA EPOXY COATED CAST IRON STRAINER AND # 957AG AIR GAP FITTING. RPZ3 REDUCED PRESSURE ZONE BACKFLOW PREVENTER: WATTS # LFU009AQT-S, MEETING ASSE 1013, LEAD FREE CAST BRONZE BODY, QUARTER TURN TEST COCKS, 90°D SWIVEL UNIONS, QUARTER TURN BALL VALVES, LEAD FREE BRONZE STRAINER, AND # 909AG AIR GAP FITTING. SINK: SOLID SURFACE COUNTERTOP WITH UNDER COUNTER MOUNTED FORMICA SINGLE BOWL 1815 SINK 102 ARCTIC WHITE 19-1/8" X 16-1/4" FAUCET: AMTC HEALTHFLO AUTOMATIC FAUCET SYSTEM AEF-321HF 1.5 GPM SENSOR OPERATED POLISHE SURGICAL GRADE STAINLESS STEEL, PLUG-IN 6V AC POWER ADAPTER. SINGLE HOLE MOUNT TRIM: McGUIRE # LF2165CC LEAD FREE BRASS WHEEL HANDLE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # 151M CUP STRAINER WITH 1-1/2" 17 GAUGE TAIL PIECE, McGUIRE # B8912CF 1-1/2" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP WITH BRASS CLEANOUT AND ESCUTCHEON, PLUMBEREX

PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES. SINK (ADA ACCESSIBLE): ELKAY LUSTERTONE LRADQ252155, 25" x 21-1/4" x 5-1/2" DEEP, SINGLE COMPARTMENT, CENTER SET 2 HOLE, SELF-RIMMING, 18 GAUGE TYPE 304 STAINLESS STEEL, FIXTURE WITH FAUCET LEDGE. SET IN BED OF PUTTY. FAUCET: ELKAY LK406LGN05T6 4" CENTERSET, EXPOSED DECK LAMINAR FLOW FAUCET. 5" GOOSENECK SPOUT. 6" WRISTBLADE HANDLES, CHROME FINISH, 1.5 GPM QUARTER TURN CERAMIC DISC VALVE. NOTE: WHERE INDICATED WITH PLAN NOTE, INSTALL FOOT PEDAL VALVE ZURN Z85500-XL IN CONJUNCTION WITH MANUAL HAND FRIM: McGUIRE # LF2165CC LEAD FREE BRASS WHEEL HANDLE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # 151M CUP STRAINER WITH 1-1/2" 17 GAUGE TAILPIECE. McGUIRE # B8912CF 1-1/2" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP WITH BRASS CLEANOUT AND ESCUTCHEON. AND PLUMBEREX "PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES. WALL-MOUNTED SINK (ADA ACCESSIBLE): KOHLER K-2084 20" X 18" WHITE VITREOUS CHINA FIXTURE WITH SINGLE HOLE FAUCET LEDGE AND OVERFLOW. FAUCET: AMTC HEALTHFLO AUTOMATIC FAUCET SYSTEM AEF-321HF 1.5 GPM SENSOR OPERATED POLISHE SURGICAL GRADE STAINLESS STEEL, PLUG-IN 6V AC POWER ADAPTER, SINGLE HOLE MOUNT TRIM: McGUIRE # LF2165CC LEAD FREE BRASS WHEEL HANDLE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS. McGUIRE # 151M CUP STRAINER WITH 1-1/2" 17 GAUGE TAILPIECE, McGUIRE # B8912CF 1-1/2" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP WITH BRASS CLEANOUT AND ESCUTCHEON, PLUMBEREX PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES. SINK: KOHLER RIVERBY K-8669-5UA3 33" UNDERMOUNT DOUBLE BOWL KITCHEN SINK. WHITE ENAMELED CAST IRON, 5 OVERSIZED DECK HOLES, 9" DEEP BOWLS FAUCET: KOHLER CRUE K-22973 SEMI-PROFESSIONAL KITCHEN FAUCET, THREE-FUNCTION SPRAYHEAD, VIBRANT BRUSHED MODERNE BRASS FINISH, 1.5 GPM

FLOW RATE WITH BOOST TECHNOLOGY. TRIM: McGUIRE # LF2165CC LEAD FREE BRASS WHEEL HANDLE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS. BRUSHED BRASS STRAINERS WITH 1-1/2" 17 GAUGE TAILPIECE, McGUIRE # 111C16G17 1-1/2" 17 GAUGE CONTINUOUS WASTE, McGUIRE # B8912CF 1-1/2" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP WITH BRASS CLEANOUT AND ESCUTCHEON. SAND/OIL INTERCEPTOR: GREENTURTLE PROCEPTOR OMC 1500, FIBERGLASS REINFORCED PLASTICS BODY, SINGLE BAFFLE DESIGN, 1500 GALLON CAPACITY AND RATED FOR 1133 GALLONS OF OIL STORED, WITH (2) 24" GASKETED, AASHTO H-20 LOAD RATED COVER WITH EXTENSIONS. TRAPPED INLET AND OUTLET AND (2) 3" VENT CONNECTIONS. EXTEND CLEANOUTS TO GRADE. UNIT SHALL INCLUDE 30 YEAR WARRANTY AGAINST LEAKS AND STRUCTURAL FAILURE.

SURGEON'S SCRUB SINK 2-STATION :STERIS "AMSCO FLEXMATIC" SCRUB STATION, 64 x 27-9/32" x 51-1/2" HIGH, WALL MOUNTED, TWO COMPARTMENTS WITH DIVIDER SCREEN, 16 GAUGE TYPE 302 STAINLESS STEEL CONSTRUCTION WITH PAINTED STEEL SKIRT ASSEMBLY, CHROME-PLATED GOOSENECK SPOUTS WITH ROSESPRAYS, SOAP DISPENSER SPOUTS, KNEE CONTROL PANELS FOR WATER AND SOAP ACTIVATION, FHERMOSTATIC MIXING VALVES, CHROME-PLATED BRASS STRAINER WITH TAILPIECE, AND OPTIONAL TIMER. TRIM: (2) McGUIRE #8912-C-F CHROME PLATED TUBULAR BRASS ADJUSTABLE 1-1/2" P-TRAP WITH CLEANOUT PLUG AND ESCUTCHEON, (2) McGUIRE #LF2165CC LEAD FREE BRASS COMPRESSION WHEEL HANDLE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, ALL PARTS CHROME-PLATED; AND SUITABLE CARRIER WITH STANCHIONS SECURED TO FLOOR ELECTRICAL REQUIREMENTS:120 VOLT SINGLE PHASE POWER SUPPLY, 1.0 FULL LOAD

SHOWER VALVE: SYMMONS #9601-X-PLR, PISTON TYPE PRESSURE BALANCING MIXING VALVE WITH BRASS STEM, MEETING ASSE 1016P, SINGLE BLADE LEVER HANDLE. SET ADJUSTABLE LIMIT STOP SCREW TO 110F, INTEGRAL SERVICE STOPS, 2.0 GPM "CLEAR-FLO" SHOWER HEAD WITH ARM AND FLANGE. SHOWER VALVE (ADA ACCESSIBLE): SYMMONS # 9605-X-PLR, PISTON TYPE PRESSURE BALANCING MIXING VALVE WITH BRASS STEM, MEETING ASSE 1016P, SINGLE BLADE LEVER HANDLE, SET ADJUSTABLE LIMIT STOP SCREW TO 110F, INTEGRAL SERVICE STOPS, DIVERTER VALVE, [1.5 GPM][2.0 GPM] "CLEAR-FLO" SHOWER HEAD WITH ARM AND FLANGE, [1.5 GPM][2.0 GPM] WALL / HAND SHOWER WITH FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, WALL CONNECTION AND FLANGE, AND 30" SLIDE BAR. TRAP PRIMER: PRECISION PLUMBING PRODUCTS CHROME PLATED #ULP-500LP "PRIME RITE", CORROSION RESISTANT BRASS BODY, "O" RING SEALS, AND INTEGRAL VACUUM BREAKER. INSTALL THE VALVE AT A MINIMUM OF 12" ABOVE FINISHED FLOOR. ALL EXPOSED PIPING SHALL BE CHROME-PLATED BRASS MEETING ASTM B-43. URINAL: TOTO # UT104E 0.5 GPF, LOW CONSUMPTION URINAL SYSTEM, WHITE VITREOUS CHINA FIXTURE WITH FLUSHING RIM, 3/4" TOP SPUD, AND WASHOUT FLUSHING ACTION. 0.5 GPF UNIVERSAL BOWL, MEETS DEFINITION FOR HIGH EFFICIENCY URINAL (HEU). VALVE- ZURN "AQUASENCE AV" # ZER6003AV-CPM-EWS 0.5 GALLON PER FLUSH EXPOSED. CHROME-PLATED. SIDE MOUNTED CHROME PLATED METAL COVER WITH

OVERRIDE BUTTON, BATTERY POWERED SENSOR OPERATED, DIAPHRAGM TYPE FLUSH VALVE WITH CHLORAMINE RESISTANT DIAPHRAGM WITH PROTECTED ORIFICE. ESCUTCHEON, INTEGRAL SCREWDRIVER STOP WITH VANDAL RESISTANT CAP, VACUUM BREAKER AND 3/4" FLUSH TUBE AND SWEAT ADAPTER KIT. TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR. URINAL (ADA ACCESSIBLE): TOTO # UT104E 0.5 GPF, LOW CONSUMPTION URINAL SYSTEM. WHITE VITREOUS CHINA FIXTURE WITH FLUSHING RIM. 3/4" TOP SPUD. AND WASHOUT FLUSHING ACTION. 0.5 GPF UNIVERSAL BOWL, MEETS DEFINITION FOR HIGH EFFICIENCY URINAL (HEU). VALVE- ZURN "AQUASENCE AV" # ZER6003AV-CPM-EWS 0.5 GALLON PER FLUSH, EXPOSED, CHROME-PLATED, SIDE MOUNTED CHROME PLATED METAL COVER WITH OVERRIDE BUTTON, BATTERY POWERED SENSOR OPERATED, DIAPHRAGM TYPE

FLUSH VALVE WITH CHLORAMINE RESISTANT DIAPHRAGM WITH PROTECTED ORIFICE

ESCUTCHEON, INTEGRAL SCREWDRIVER STOP WITH VANDAL RESISTANT CAP, VACUUM BREAKER AND 3/4" FLUSH TUBE AND SWEAT ADAPTER KIT. TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR. WALL-MOUNTED WATER CLOSET: TOTO # CT708E, WHITW VITREOUS CHINA FIXTURE WITH ELONGATED UNIVERSAL BOWL AND DIRECT-FED SIPHON JET ACTION WITH 1-1/2" TOP SPUD INLET, LESS SEAT VALVE: ZURN "AQUASENSE AV" # ZER6000AV-CPM-HET 1.28 GALLON PER FLUSH. EXPOSED, CHROME-PLATED, BATTERY POWERED, SENSOR OPERATED, SOLENOID TYPE, FLUSH VALVE, WITH CHLORAMINE RESISTANT SEALS, MANUAL OVERRIDE BUTTON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, AND SWEAT ADAPTER TRIM: CHURCH # 9500SSCT WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND

STAINLESS-STEEL BOLTS. PROVIDE SUITABLE FIXTURE CARRIER. WC2 WALL-MOUNTED WATER CLOSET (ADA ACCESSIBLE): TOTO # CT708E, WHITE VITREOUS CHINA FIXTURE WITH ELONGATED UNIVERSAL BOWL AND DIRECT-FED SIPHON JET VALVE: ZURN "AQUASENSE AV" # ZER6000AV-CPM-HET 1.28 GALLON PER FLUSH, EXPOSED, CHROME-PLATED, BATTERY POWERED, SENSOR OPERATED, SOLENOID TYPE, FLUSH VALVE, WITH CHLORAMINE RESISTANT SEALS, MANUAL OVERRIDE BUTTON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, AND SWEAT ADAPTER TRIM: CHURCH # 9500SSCT WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS-STEEL BOLTS. PROVIDE SUITABLE FIXTURE CARRIER. WCO WALL CLEANOUT: JAY R. SMITH # 4530S, CAST IRON CLEANOUT TEE, COUNTER SUNK

PLUG, STAINLESS STEEL ROUND COVER AND SCREW, AND IRON PLUG WITH GASKET SEAL. REFER TO SPECIFICATIONS FOR INSTALLATION. WHA WATER HAMMER ARRESTER: PRECISION PLUMBING PRODUCTS. HARD DRAWN COPPER BODY WITH WROUGHT COPPER FITTINGS, PISTON TYPE WITH LUBRICATED FPDM "O" RING SEALS, MEETING ASSE 1010 OR PDI WH-201, PROVIDE PDI SIZES "A" THROUGH "F" AS SHOWN ON PLANS. PROVIDE SIZE "A" UNLESS SHOWN OTHERWISE WATER METER: BADGER METER # M170 2", LEAD FREE BRONZE MAINCASE AND MEASURING CHAMBER, BOTTOM PLATE, STAINLESS STEEL TRIM AND BOLTS. THERMOPLASTIC STRAINER, OSCILLATING PISTON MEASURING ELEMENT, STRAIGHT READING HERMETICALLY SEALED REGISTER. REGISTRATION IN US GALLONS. MAGNETIC DRIVE, AND COMPLIANCE WITH ANSI / AWWA C700. PROVIDE WITH REMOTE

READING SYSTEM IF / AS REQUIRED. WATER METER: BADGER METER # M120 1-1/2", LEAD FREE BRONZE MAINCASE AND MEASURING CHAMBER, BOTTOM PLATE, STAINLESS STEEL TRIM AND BOLTS. THERMOPLASTIC STRAINER, OSCILLATING PISTON MEASURING ELEMENT, STRAIGHT READING HERMETICALLY SEALED REGISTER REGISTRATION IN US GALLONS MAGNETIC DRIVE, AND COMPLIANCE WITH ANSI / AWWA C700. PROVIDE WITH REMOTE READING SYSTEM IF / AS REQUIRED. NON-FREEZE YARD HYDRANT: PRIER P-650BX1 FREEZE PROOF GROUND HYDRANT

WITH 3/4" FEMALE INLET, 3/4" MALE THREADED HOSE CONNECTION, 1/8" DRAIN HOLE, LOOSE KEY OPERATOR. SATIN NICKEL PLATED BRASS BOX WITH CYLINDER LOCK AND INTEGRAL ASSE 1052 DOUBLE CHECK VACUUM BREAKER. INSTALL PER DETAIL.

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