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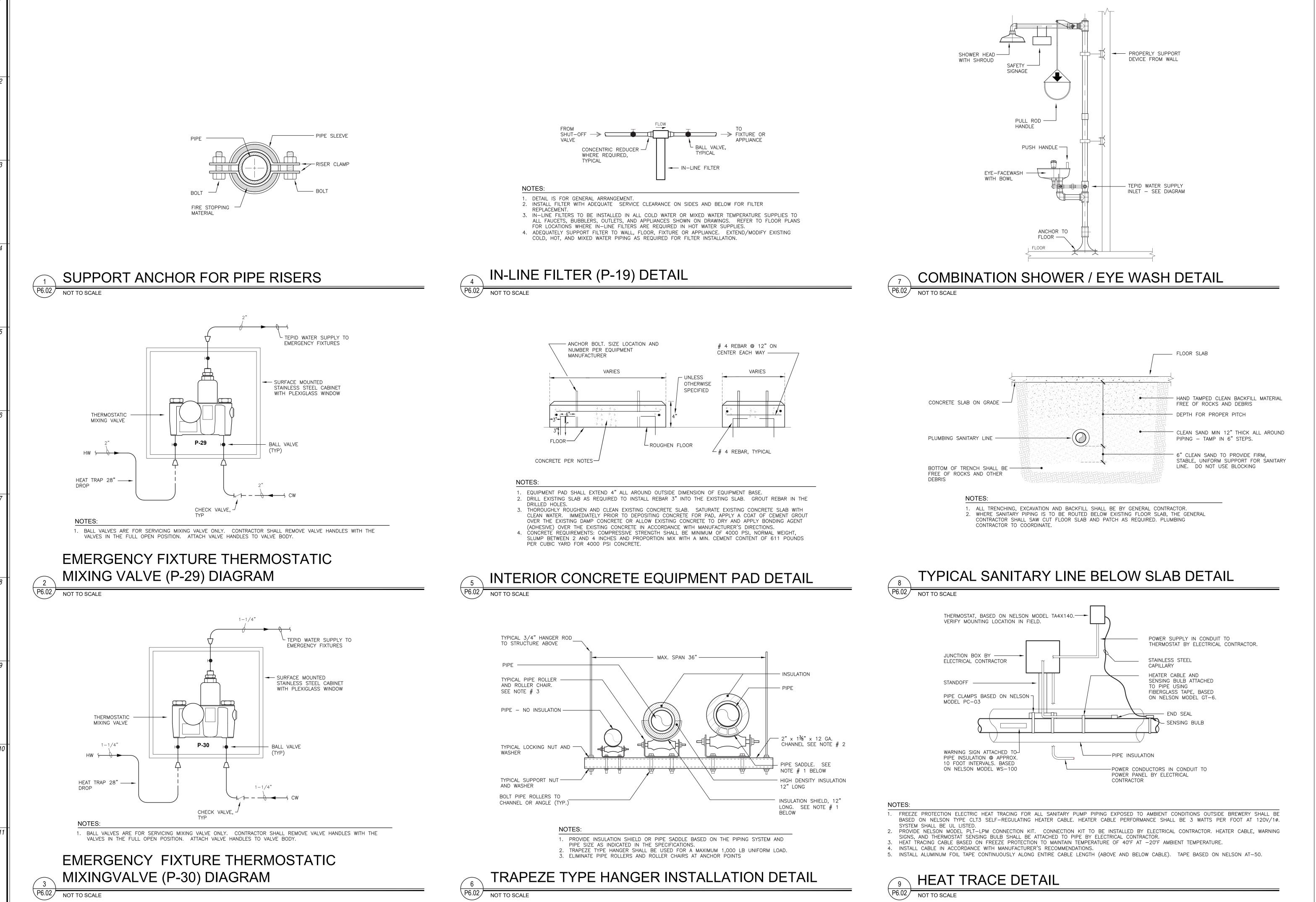
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Job No. **4.**1552.01 ile No. 4155201 P60

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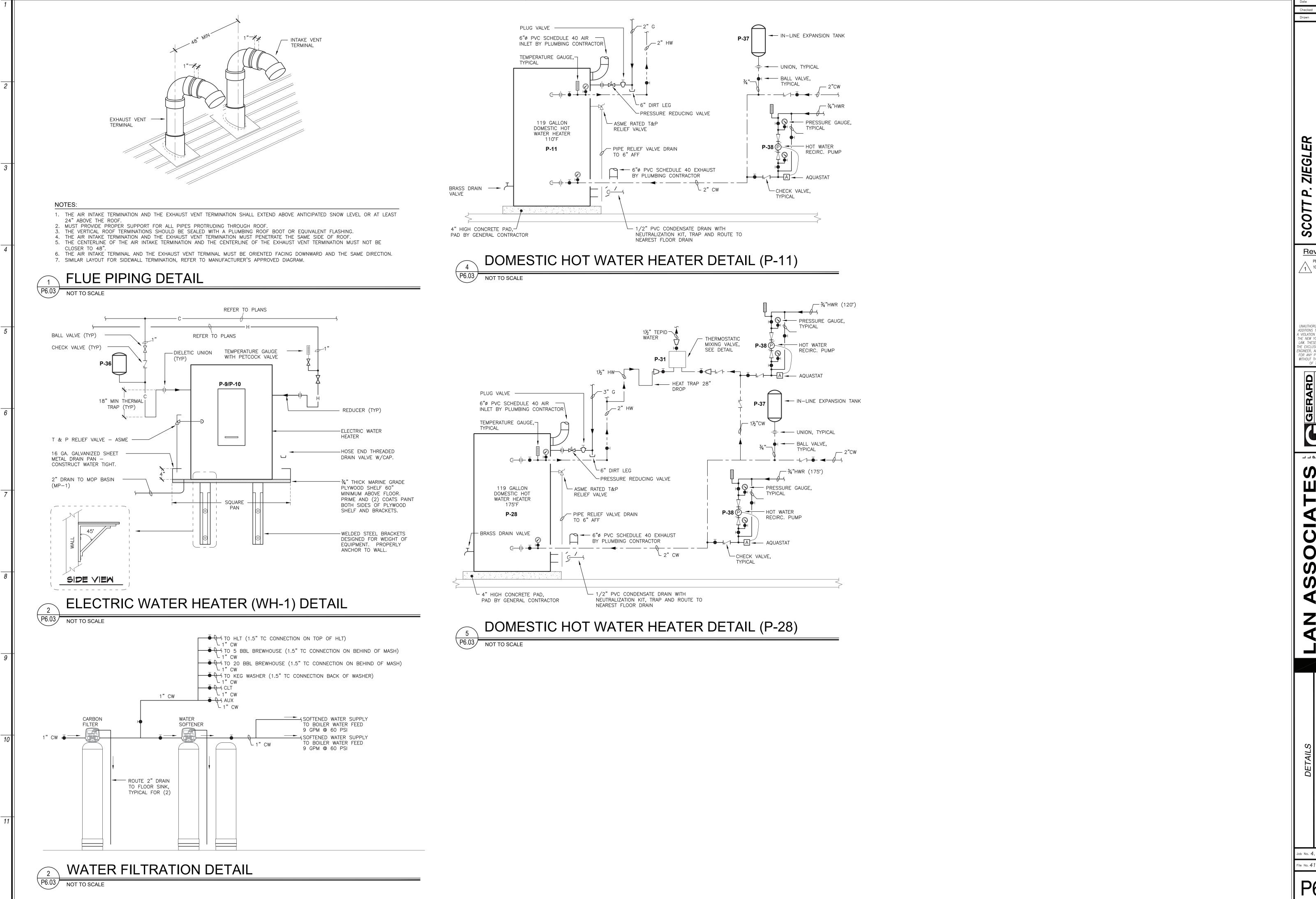
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COTT P. ZIEGLER

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GERARD
ASSOCIATES
CONSULTING ENGINEERS, P.C.
223 MAIN STRET, GOSHEN NY 10924
TEL: (845) 291 1272
nti@@deardAssociates.com

ASSOCIATES LA SIGNA • planning • architecture • surveying

ASPIRE BREWING TAP ROOM & BREWEI IR SONNY PATEL BREWING COMPANY, A /600 NORTH GALLERIA DRIVE LOWER I MIDDLETOWN, NY 10941

Job No. **4.**1552.01 File No. **41**55201 P603

P6.03

PLUMBING PIPING FITTING SCHEDULE									
SERVICE	SIZE (IN)	MATERIAL	TYPE/WEIGHT	STANDARD					
WATER PIPE (ABOVE GROUND)	3" AND LESS	COPPER	LEAD-FREE SOLDER ASTM B828	ASTM B 16.22					
WATER PIPE (ABOVE GROUND)	4" AND UP	DUCTILE IRON	MECHANICAL OR PUSH-ON	AWWA C110					
WATER PIPE (BELOW GROUND)	2½" AND LESS	COPPPER	LEAD FREE SOLDER ASTM B828	ASTM B 16.22					
SANITARY AND VENT (ABOVE GROUND)	ALL	SERVICE WEIGHT CAST IRON	NO-HUB ASTM C1277 ASTM C564	ASTM A 74					
SANITARY AND VENT (BELOW GROUND)	ALL	EXTRA—HEAVY CAST IRON	HUB AND SPIGOT ASTM C564	ASTM A 74					
SANITARY AND VENT (BELOW GROUND SERVING BREWERY)	ALL	TYPE 316L STAINLESS STEEL	PUSH-ON	ASME A 112.3.1					
PUMP DISCHARGE	ALL	DUCTILE IRON	THREADED	AWWA C110					
GAS PIPING (ABOVE GROUND)	4" AND LESS	MALLEABLE IRON	THREADED OR WELDED	ASTM B 16.3					
GAS PIPING (ABOVE GROUND)	6" AND UP	MALLEABLE IRON	WELDED	ASTM B 16.3					

PLUMBING PIPING MATERIAL SCHEDULE									
SERVICE	SIZE (IN)	MATERIAL	TYPE/WEIGHT	STANDARD					
WATER PIPE (ABOVE GROUND)	3" AND LESS	COPPER	TYPE L TUBE	ASTM B 88					
WATER PIPE (ABOVE GROUND)	4" AND UP	DUCTILE IRON	MECHANICAL OR PUSH-ON	AWWA C151					
WATER PIPE (BELOW GROUND)	2½" AND LESS	COPPER	TYPE K SOFT	ASTM B 88					
SANITARY AND VENT (ABOVE GROUND)	ALL	CAST IRON	SERVICE WEIGHT	ASTM A 74					
SANITARY AND VENT (BELOW GROUND)	ALL	CAST IRON	EXTRA-HEAVY WEIGHT	ASTM A 74					
SANITARY AND VENT (BELOW GROUND SERVING BREWERY)	ALL	STAINLESS STEEL	TYPE 316L	ASME A 112.3.1					
PUMP DISCHARGE	ALL	DUCTILE IRON	THREADED	AWWA C110					
GAS PIPING (ABOVE GROUND)	ALL	BLACK STEEL	SCHEDULE 40	ASTM A 53					

PLUMBING PIPE INSULATION SCHEDULE								
	INSULATION THICKNESS (INCHES)							
SERVICE	PIPE SIZE (INCHES)							
	BELOW 1½"	1½" AND OVER						
COLD WATER	1/2"	1"						
HOT WATER	1"	11/2"						
HOT WATER RECIRCULATION	1"	11/2"						
EXTERIOR PUMP DISCHARGE	1"	1"						
1. PIPE COVERING SHALL B	E FIBERGLASS PIF	E INSULATION						

WITH: FIRE RETARDANT VAPOR BARRIER JACKET, 0.23 K-FACTOR AT 75°F MEAN TEMPERATURE, FLAME SPREAD = | 25, SMOKE DEVELOPED = 50. FITTINGS AND VALVES SHALL BE PROVIDED WITH PREMOLDED FITTING COVERS WITH PVC JACKETING OVAL IN

THICKNESS AND MATERIAL TO ADJOINING PIPE INSULATION.

WATTS WATER HAMMER ARRESTORS									
NO. 15 SIZE	FIXTURE UNITS	CROSS REF. PDI STANDARD							
1/2" M1	1-11	А							
3/4" M1	12-32	В							
1" M1	33-60	С							
1-1/4" M1	61-113	D							
1-1/2" M1	114-154	E							
2" M1	155-330	F							

		SYMBOLS AND A	ABBREVIA	TIONS	
SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
_	DN.	DOWN	$\boxed{\qquad \qquad }$	-	HOSE-BIBB
_	GPH	GALLONS PER HOUR	+	-	WALL HYDRANT
	GPM	GALLONS PER MINUTE		FD	FLOOR DRAIN
_	TYP.	TYPICAL	₩	PRV	PRESSURE REDUCING VALVE
	V	VOLTS	_	° F	DEGREES FAHRENHEIT
	VTR	VENT THROUGH ROOF	_	IN	INCHES
	CW	DOMESTIC COLD WATER	_	PSIG	POUNDS PER SQUARE INCH
	HW	DOMESTIC HOT WATER	_	Н	HEIGHT
	HWR	DOMESTIC HOT WATER RETURN	_	W	WIDTH
—_LP —_	G	PROPANE	_	L	LENGTH
——s—	S	SANITARY	ø	DIA	DIAMETER
v	V	VENT	— <u> </u>	-	PIPE CAP
─ ▽		PLUG VALVE	_	MIN	MINIMUM
ē		BALL VALVE	_	MAX	MAXIMUM
<u> </u>	_	MANUAL AIR VENT	_	FT²	SQUARE FEET
	_	THERMOMETER		CO	CLEAN OUT
<u> </u>	_	PRESSURE GAUGE		WCO	WALL CLEAN OUT
	_	UNION	— SD —	SD	STORM DRAIN
(CODP	CLEANOUT DECK PLATE		_	TEE UP
	NEW	NEW WORK		_	TEE DN
o—	_	ELBOW UP	_	BFP	BACK FLOW PREVENTION DEVICE
c	_	ELBOW DOWN	_	DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
∋c	_	TRAP	_	RPZ	REDUCED PRESSURE ZONE

PIPE SIZE		_	ORIZON G (FEET		SINGLE SI HANGER SI	TEEL ROD ZE (INCHES)	HANGER TYPE	MAXIMUM VERTICAL SPACING (FEET)				
(INCHES)	COPPER TUBE	CAST IRON	STEEL PIPE	PVC PIPE	TUBING	PIPING	STEEL	COPPER TUBE	CAST IRON	STEEL PIPE	PVC PIPE	
1/2"	6	5	8 (5)	3	1/4"	3/8"	BAND	10	15	15	10	
3/4"	6	5	8 (5)	3	1/4"	3/8"	BAND	10	15	15	10	
1"	6	5	8 (5)	3	1/4"	3/8"	BAND	10	15	15	10	
11/4"	6	5	9 (5)	4	1/4"	3/8"	CLEVIS	10	15	15	10	
1½"	6	5	9 (5)	4	1/4"	3/8"	CLEVIS	10	15	15	10	
2"	10	5	10(5)	4	1/4"	3/8"	CLEVIS	10	15	15	10	
2½"	10	5	12(5)	4	3/8"	1/2"	CLEVIS	10	15	15	10	
3"	10	5	12(5)	4	3/8"	1/2"	CLEVIS	10	15	15	10	
4"	10	5	12(5)	4	1/2"	5%"	CLEVIS	10	15	15	10	
5"	10	5	12(5)	4	1/2"	5/8"	CLEVIS	10	15	15	10	
6"	10	5	12(5)	4	1/2"	3/4"	CLEVIS	10	15	15	10	
8"	10	5	12(5)	4	5%"	7⁄8"	CLEVIS	10	15	15	10	
10"	10	5	12(5)	4	5/8"	7∕ ₈ "	CLEVIS	10	15	15	10	
12"	10	5	12(5)	4	5%"	7⁄8"	CLEVIS	10	15	15	10	

MAXIMUM HORIZONTAL SPACING OF CAST-IRON PIPE HANGERS SHALL BE INCREASED TO 10 FEET

- 2. INSTALL HANGER OR SUPPORT CLOSE TO THE POINT OF CHANGE OF DIRECTION IN ALL PIPE
- 3. INSTALL ADDITIONAL HANGERS ON SUPPORTS AT CONCENTRATED LOADS.
- 4. SUPPORT ALL BRANCH PIPING OVER 5'-0" IN LENGTH.
- 5. $\frac{1}{2}$ " PROPANE PIPING SHALL BE SUPPORTED EVERY 6'-0". $\frac{3}{4}$ " AND 1" PROPANE PIPING SHALL BE SUPPORTED EVERY 8'-0". $1\frac{1}{4}"$ AND LARGER PROPANE PIPING SHALL BE SUPPORTED EVERY
- 6. SUPPORT VERTICAL PIPING AT EVERY FLOOR.

WHERE 10 FOOT LENGTHS OF PIPE ARE INSTALLED.

- 1. ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2020 NEW YORK STATE PLUMBING CODE, NEW YORK STATE FIRE CODE, NEW YORK STATE FUEL GAS CODE, AND NEW YORK STATE BUILDING CODE, NEW YORK STATE ENERGY
- 2. PLUMBING CONTRACTOR SHALL PROVIDE ALL FIXTURES, PIPING, VALVES, ACCESS DOORS, HANGERS, FITTINGS AND MISCELLANEOUS COMPONENTS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE PLUMBING SYSTEMS
- 3. PLUMBING CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL PIPING AND EQUIPMENT WITH OTHER TRADES TO AVOID CONFLICTS. ROUGHING-IN DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH GENERAL CONTRACTOR. SEE
- ARCHITECT'S DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF PLUMBING FIXTURES. 4. ALL PIPE OPENINGS THROUGH PARTITIONS, FLOORS AND CEILINGS SHALL HAVE PIPE SLEEVES. FOR PIPE PENETRATING FIRE
- RATED PARTITIONS, CEILINGS AND FLOORS THE CONTRACTOR SHALL SEAL AROUND ALL PIPE PENETRATIONS WITH HILTI INTUMESCENT FIRE STOP MATERIAL BETWEEN THE PIPE AND SLEEVE TO MAINTAIN FIRE AND SMOKE RATINGS. CT.
- SHALL BE PITCHED A MINIMUM OF 1/4" PER FOOT. 6. PLUMBING CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER AND
- AGREES TO REPLACE DEFECTIVE WORK (INCLUDING ALL REQUIRED LABOR AND MATERIAL) AT NO ADDITIONAL COST TO OWNER DURING THE GUARANTEE PERIOD.
- MAINTENANCE PROCEDURES. 8. PROVIDE CHROME PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH WALLS, FLOORS AND CEILINGS IN FINISHED
- 9. PLUMBING CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF ALL PIPING IN FINISHED AREAS WITH GENERAL
- 11. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING (24V) AND (120V) FOR SYSTEMS SHOWN ON PLUMBING DRAWINGS AND TRANSFORMERS, CONDUIT, JUNCTION BOXES, CONDUCTORS, THERMOSTATS, APPURTENANCES AND
- 12. ALL CONTROL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (LATEST ADOPTED ADDITION) AND ALL LOCAL CODES. ALL CONDUCTORS SHALL BE COPPER WITH THHN INSULATION. 120V/1 — MINIMUM CONDUCTOR SIZE
- 13. PLUMBING CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTIONS FEES REQUIRED BY LOCAL AUTHORITY HAVING
- 14. WHERE REQUIRED PLUMBING CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR ALL VALVES CONCEALED IN WALLS/CEILINGS. ACCESS DOORS SHALL HAVE APPROPRIATE FIRE RATING TO MAINTAIN INTEGRITY OF WALL/CEILING. ACCESS DOORS TO BE
- 15. PLUMBING CONTRACTOR SHALL NOT DRILL OR CUT ANY STRUCTURAL MEMBERS WITHOUT PERMISSION OF ARCHITECT, OR STRUCTURAL ENGINEER.

- 18. ALL PIPES ARE TO BE SUPPORTED FROM STRUCTURE, NOT FROM EXISTING PIPING OR DUCTWORK.

- 22. PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, HOT WATER, COMPRESSED AIR, LUBRICATION
- 24. A CLEANOUT SHALL BE LOCATED AT ALL CHANGES IN DIRECTION AND AT THE BASE OF EACH STACK AND LEADER.
- 25. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.
 - A. FIXTURE SHALL BE COMPLETE WITH REQUIRED TRIM, INCLUDING BUT NOT LIMITED TO: SUPPORTS, FAUCETS, SUPPLIES, STOP VALVES. 17 GAUGE WASTE TAILPIECES, TRAPS, SEATS, FLUSHOMETER, VACUUM BREAKER, BOLTS, GASKETS CHROME PLATED ESCUTCHEONS, CAST BRASS FLOOR FLANGE AND BOLT CAPS. ALL SCREWS SHALL BE VANDLEPROOF.
 - B. EXPOSED METAL TRIM AND ROUGHING SHALL BE CHROME PLATED NICKEL BRASS. CHROME PLATED CAST BRASS 'P' TRAPS WITH SCREW PLUG CLEANOUT, SLIP-JOINT INLET AND FEMALE CAST SWIVEL THREADED ELBOW OUTLET. CHROME PLATED BRASS NIPPLE AT WALL WITH CHROME PLATED ESCUTCHEON. SWING SPOUTS SHALL HAVE 140° SWING LIMIT
- C. SUPPORT WALL FIXTURES SECURELY ON APPROVED COMMERCIAL GRADE CARRIERS AS MANUFACTURED BY JAY R. SMITH, JOSAM, OR ZURN.

29. PIPING AND EQUIPMENT IDENTIFICATION:

- PERFORM AN AIR TEST WITNESSED BY AUTHORITY HAVING JURISDICTION. AIR SHALL BE FORCED INTO THE SYSTEM UNTIL THERE IS A UNIFORM GAUGE PRESSURE OF 5 PSI OR SUFFICIENT TO BALANCE A 10 INCH COLUMN OF MERCURY.
- B. WATER SUPPLY SYSTEM TEST SHALL BE DONE ON COMPLETION OF A SECTION OF OR THE ENTIRE WATER SUPPLY SYSTEM, THE SYSTEM, OR THE PORTION COMPLETED, SHALL BE TESTED AND PROVED TIGHT UNDER A WATER PRESSURE NOT LESS THAN THE WORKING PRESSURE OF THE SYSTEM: OR, BY AN AIR TEST OF NOT LESS THAN 50 PSI. TEST PRESSURE SHALL BE HELD FOR A MINIMUM OF 15 MINUTES. THE WATER UTILIZED FOR TESTS SHALL BE OBTAINED FROM A POTABLE SOURCE OF SUPPLY.
- 1. TEST MEDIUM SHALL BE AIR, NITROGEN, CARBON DIOXIDE, OR AN INERT GAS. OXYGEN SHALL NOT BE USED. 2. ABOVE GROUND PIPING SYSTEMS WITH WORKING PRESSURE UP TO ½ PSIG SHALL BE TESTED AT A PRESSURE OF 3 PSIG FOR A DURATION OF ½ HOUR FOR EACH 500 CUBIC FEET OF PIPE VOLUME BUT SHALL NOT BE LESS THAN 30
- D. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL TESTING REQUIREMENTS.
- PERFORMED, TO MINIMIZE ACCUMULATION OF DIRT AND DEBRIS.
- B. THE PLUMBING CONTRACTOR SHALL DISINFECT WATER PIPING BEFORE IT IS PLACED IN SERVICE.
- OR AWWA C652 OR AS DESCRIBED BELOW.
- E. DURING THE DISINFECTION PERIOD, CARE SHALL BE EXERCISED TO PREVENT CONTAMINATION OF WATER IN THE STREET
- F. FOLLOWING REQUIRED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM THE SYSTEM.
- FLOW DIRECTION. LETTERS AND ARROWS INDICATING FLOW SHALL BE 2 1/2" HIGH, PLACED EVERY 10' AND SHALL BE WHITE ON A GREEN BACKGROUND AND SHALL CONFORM TO ANSI AND OSHA STANDARDS. LABELS SHALL BE APPLIED
- B. VALVE SERVICE IDENTIFICATION TAGS: NUMBER 19 B&S GAGE BRASS, WITH 1/4" HIGH VALVE SERVICE ABBREVIATED LETTERING ON ONE LINE OVER 1/2" HIGH VALVE SERVICE CHART NUMBER, BOTH DEEP STAMPED AND BLACK FILLED; AND WITH 3/16" TOP HOLE FOR BRASS "S" HOOK OR BRASS JACK CHAIN FASTENER.
- FRAME SHALL BE SATIN FINISHED EXTRUDED ALUMINUM WITH RIGID CLEAR PLASTIC GLAZING, SIZE TO FIT 8-1/2" x 11"
- D. EQUIPMENT SHALL HAVE 3" HIGH BLACK LAMACOID NAME PLATES WITH WHITE ENGRAVED LETTERS PERMANENTLY FASTENED TO ALL NEW EQUIPMENT.
- ENSURE CORRECT OPERATION OF INSTALLED DEVICES. 31. PLUMBING CONTRACTOR SHALL PROVIDE OWNER WITH CATALOG DATA, OPERATING INSTRUCTIONS, MAINTENANCE INSTRUCTIONS,
- AND RECORD (AS-BUILT) DRAWINGS OF ALL COMPLETED WORK. 32. PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CUTTING, PATCHING, AND PAINTING ASSOCIATED WITH
- PLUMBING WORK WITH THE GENERAL CONTRACTOR, WHO SHALL PERFORM THE WORK. 33. ALL HOLES IN WALLS AND FLOORS SHALL BE CORE DRILLED BY THIS CONTRACTOR. USE CAUTION WHEN CORE DRILLING TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, STRUCTURE AND ETC. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED BY THIS CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- 34. ALL EXTERIOR GAS PIPING SHALL BE PREPARED, PRIMED AND PAINTED BY THE GENERAL CONTRACTOR, THIS CONTRACTOR SHALL COORDINATE.

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PLUMBING NOTES: CONSERVATION CONSTRUCTION CODE, ALL LOCAL CODES AND GENERALLY ACCEPTED STANDARDS. COMPLETE, OPERABLE, AND IN ACCORDANCE WITH APPLICABLE CODES AND GENERALLY ACCEPTED INDUSTRY STANDARDS.

5. PLUMBING CONTRACTOR SHALL PITCH ALL SANITARY PIPING UNDER 3" A MINIMUM OF 4" PER FOOT. SANITARY PIPING 3" AND ABOVE MAY BE PITCHED A MINIMUM OF 1/8" PER FOOT. ALL SANITARY PIPING UPSTREAM OF A GREASE INTERCEPTOR

7. PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT, PIPING, INSULATION, VALVES AND PLUMBING FIXTURES TO OWNER AND ARCHITECT FOR APPROVAL. DEMONSTRATE NEW PLUMBING SYSTEMS TO OWNERS AND REVIEW

CONTRACTOR TO ENSURE CONCEALMENT OF ALL PIPING IN WALLS, FLOORS, CEILINGS AND UNDER VANITIES. 10. PLUMBING CONTRACTOR SHALL LOCATE ALL PIPING ON THE WARM SIDE OF BUILDING INSULATION ENVELOPE.

ALL NECESSARY EQUIPMENT TO MAKE SYSTEMS COMPLETE AND OPERABLE. # 12. 24V - MINIMUM CONDUCTOR SIZE # 18.

INSTALLED BY GENERAL CONTRACTOR.

- 16. PLUMBING CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL DOMESTIC HOT, COLD, AND HOT WATER RECIRCULATION
- 17. ALL DOMESTIC WATER PIPING CONNECTIONS TO PLUMBING EQUIPMENT SHALL BE COPPER TYPE "L".
- 19. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING AND REFILLING SYSTEMS AS REQUIRED FOR COMPLETION OF
- 20. PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
- 21. ALL PROPANE PIPING AND EQUIPMENT INSTALLATIONS SHALL BE AS PER THE NEW YORK STATE FUEL GAS CODE AND NFPA
- LINES, AND PROPANE SUPPLY PIPES.
- 23. ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED.
- 26. FIXTURE (GENERAL):

- A. UPON COMPLETION OF THE ENTIRE SANITARY DRAIN, STORM DRAIN, AND VENT SYSTEM, THE CONTRACTOR SHALL THIS TEST SHALL BE HELD FOR A PERIOD OF AT LEAST 15 MINUTES.
- C. PROPANE DISTRIBUTION PIPING SHALL COMPLY WITH THE FOLLOWING:
- 28. DOMESTIC WATER PIPING DISINFECTION: A. ALL OPEN ENDS OF PIPING, VALVES AND EQUIPMENT SHALL BE PLUGGED EXCEPT WHEN ACTUAL WORK IS BEING
- C. THE PLUMBING CONTRACTOR SHALL FURNISH ALL EQUIPMENT AND MATERIALS NECESSARY TO DO THE WORK OF DISINFECTING, AND SHALL PERFORM THE WORK IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN THE AWWA C651
- D. SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING AT LEAST 50 PARTS PER MILLION OF CHLORINE AND THE SYSTEM OR PART THEREOF SHALL BE ALLOWED TO STAND FOR 24 HOURS.
- MAIN OR THE ACTIVE WATER PIPING WITHIN THE BUILDING.
- A. PLUMBING CONTRACTOR TO PROVIDE OPTI-CODE LABELS FOR ALL NEW PIPING. LABELS SHALL INDICATE SERVICE AND
- C. PROVIDE VALVE SERVICE IDENTIFICATION CHART MOUNTED IN LOCATION COORDINATED WITH OWNER'S REPRESENTATIVE.
- 30. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING START-UP OF ALL EQUIPMENT, CONTROLS, AND ETC. TO

		DOLC.			ONINITOTIC	<u> </u>			Υ	Υ
TAG	SYM PLAN	BOLS	SAN./STORM		COLD	НОТ	GAS	MANUFACTURER	CATALOG#	DESCRIPTION
P-1 P-1A			3"	1½"	1"	_	_	AMERICAN STANDARD	2257.101	WALL—MOUNTED, VITREOUS CHINA, ELONGATED BOWL, FLUSHOMETER TOILET WITH CONCEALED TRAPWAY, DIRECT—FED SIPHON JET ACTION, AND 1—1/2" TOP SPUD. FIXTURE COLOR SHALL BE WHITE. PROVIDE COMMERCIAL HEAVY DUTY PLASTIC TOILET SEAT, CHURCH MODEL 2155CT AND FLOOR MOUNTED VERTICAL ADJUSTABLE CLOSET CARRIERS. FIXTURE, P—1A, IS TO BE ADA ACCESSIBLE, REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
		[7						SLOAN AMERICAN STANDARD	8111-1.28 6561.017	EXPOSED, BATTERY POWERED, SENSOR OPERATED WATER CLOSET FLUSHOMETER. HIGH EFFICIENCY, 1.28 GALLONS PER FLUSH. WALL-MOUNTED, VITREOUS CHINA, LOW CONSUMPTION, SIPHON JET ACTION URINAL WITH FLUSHING RIM, EXTENDED SIDES FOR PRIVACY AND \(\frac{3}{4}\)" TOP SPUD INLET. FIXTURE COLOR SHALL BE WHITE. PROVIDE FLOOR MOUNTED URINAL CARRIER WITH BEARING PLATE. URINAL SHALL BE ADA COMPLIANT. FIXTURE, P-2A, IS TO BE ADA ACCESSIBLE, REFER TO
P-2			2"	1½"	3/4"	-	_	SLOAN	8186-0.5	ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. EXPOSED, BATTERY POWERED, SENSOR OPERATED URINAL FLUSHOMETER. LOW CONSUMPTION, 0.5 GALLONS PER FLUSH. FLISHOMETER SHALL BE ADA COMPLIANT.
P-3	0		11/4"	11/4"	1/2"	1/2"	_	AMERICAN STANDARD	0355.012	WALL-HUNG, VITREOUS CHINA, D-SHAPED BOWL LAVATORY WITH FRONT OVERFLOW, CONCEALED ARM SUPPORTS, FAUCET LEDGE, AND SELF-DRAINING DECK AREA. FIXTURE COLOR SHALL BE WHITE. PROVIDE CONCEALED ARM SUPPORTS, OFFSET LAVATORY GRID STRAINER (MCGUIRE MANUFACTURING PART NUMBER 155WC) AND TRUEBRO MODEL 103 E-Z LAV GUARD. FIXTURE, P-3A, IS TO BE ADA ACCESSIBLE, REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
								T&S BRASS	EC-3104-VF5-TMV	BATTERY POWERED, POLISHED CHROME PLATED, LEAD FREE, SENSOR FAUCET WITH: 0.5 GPM VANDAL—RESISTANT LAMINAR FLOW, THERMOSTATIC MIXING VALVE WITH INTEGRAL CHECK VALVES, 18" FLEXIBLE STAINLESS STEEL SUPPLY HOSES WITH COMPRESSION CONNECTIONS, LOW BATTERY LED INDICATOR LIGHT, AND WATER RESISTANT CONTROL MODULE WITH INTERNAL FLOW CONTROL SWITCHES FOR ADJUSTING AUTO TIME OUT AND SHUT—OFF DELAY SETTINGS.
P-4		\Box	3"	1½"	_	_	_	JAY R SMITH	2005Y(B)	FLOOR DRAIN WITH DUCO CAST IRON BODY, FLASHING COLLAR, VANDAL PROOF SCREWS AND 6"x6" SQUARE ADJUSTABLE STRAINER HEAD. FLOOR DRAINS SHALL BE PROVIDED WITH TRAP SEALS.
P-5	0		1¼"	11/4"	½"	1/2"	_	AMERICAN STANDARD	0552.000	ABOVE COUNTER, FIRE CLAY, RECTANGULAR—SHAPED BOWL LAVATORY. FIXTURE COLOR SHALL BE WHITE. PROVIDE OFFSET LAVATORY GRID STRAINER (MCGUIRE MANUFACTURING PART NUMBER 155WC) AND TRUEBRO MODEL 103 E—Z LAV GUARD. FIXTURE IS TO BE ADA ACCESSIBLE, REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
								KOHLER	T-23475-4N	SINGLE-HANDLE BATHROOM FAUCET WITH MATTE BLACK FINISH. FAUCET SHALL BE ADA COMPLIANT. HAVE 8" SPOUT HEIGHT WITH 5%" SPOUT REACH AND HAVE CERAMIC DISC VALVES. 0.5 GPM MAX FLOWRATE.
P-6			1½"	1½"	½"	_	_	ELKAY	LZSTL8WSLP	BOTTLE FILLING STATION WITH BI-LEVEL FILTERED ELECTRIC WATER COOLER. CHILLING CAPACITY OF 8 GALLONS PER HOUR OF 50°F DRINKING WATER AT 90°F AMBIENT. ELECTRICAL: 115V/60Hz., 5.0 FULL LOAD AMPS, 370 WATTS. ADA COMPLIANT, NSF 61 AND 372 CERTIFIED. UNIT SHALL MEET FEDERAL AND STATE LOW-LEAD REQUIREMENTS.
P-7			1½"	1½"	½"	½"	_	ELKAY	LRAD252155	TYPE 304 STAINLESS STEEL, TOP MOUNT, SINGLE BOWL, ADA COMPLIANT SINK. OVERALL DIMENSIONS 25"Lx21-1/4"W BY 5-1/2"DEEP. 3 FAUCET HOLES ON 4" CENTERS, OFF-CENTERED READ DRAIN OPENING LOCATION. EXPOSED SURFACES SHALL HAVE SATIN FINISH. FULLY UNDERCOATED TO DAMPEN SOUND AND PREVENT CONDENSATION. PROVIDE ELKAY LKVR18B STAINLESS STEEL VANDAL-RESISTANT GRID STRAINER AND TRUEBRO MODEL 103 E-Z LAV GUARD IN ADA LOCATIONS
								FISHER	59331	STAINLESS STEEL WIDESPREAD FAUCET, 8" CENTERS, WITH 8" SWING SPOUT AND 4" WRIST BLADE HANDLES. FAUCET SHALL BE LEAD FREE, ADA COMPLIANT AND NSF-61 LISTED AND APPROVED. FLOW RATE 2.2 GPM.
P-8	O		3"	1½"	½"	1/2"	-	FIAT	MSBID2424	MOLDED STONE MOP SERVICE BASIN, 24"x24"x10", WITH INTEGRAL DRAIN. FIXTURE SHALL BE COMPLETE WITH: STAINLESS STEEL STRAINER, HOSE AND HOSE BRACKET, MOP HANGER, VINYL BUMPERGUARD, AND STAINLESS STEEL WALL GUARDS.
								FIAT	830-AA	CHROME PLATED SERVICE SINK FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 34" HOSE THREAD ON SPOUT.
P-9			-	_	1"	1"	_	AO SMITH	DEL-30	ELECTRIC WATER HEATER, DUAL 6000 WATT ELEMENTS NON—SIMULTANEOUS OPERATION, STORAGE CAPACITY 30 GALLONS, RECOVERY 34 GPH @ 72°F RISE WITH METAL DRAIN PAN 1 ½" DEEP MINIMUM. 6—YEAR TANK & PARTS WARRANTY ENERGY FACTOR .95 — 208V/1. PROVIDE DRAIN VALVE AND ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE.
P-10			-	_	1"	1"	_	AO SMITH	DEL-50	ELECTRIC WATER HEATER, DUAL 6000 WATT ELEMENTS NON—SIMULTANEOUS OPERATION, STORAGE CAPACITY 50 GALLONS, RECOVERY 34 GPH @ 72°F RISE WITH METAL DRAIN PAN 1 ½" DEEP MINIMUM. 6—YEAR TANK & PARTS WARRANTY ENERGY FACTOR .95 — 208V/1. PROVIDE DRAIN VALVE AND ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE.
P-11			<i>½</i> "	-	2"	2"	2"	AO SMITH	BTH-300A	ASME CONSTRUCTED, POWER DIRECT VENTING, NATURAL GAS HOT WATER HEATER WITH 96% THERMAL EFFICIENCY WITH STORAGE CAPACITY OF 119 GALLONS; AN INPUT RATING OF 300,000 BTUH, A RECOVERY RATING OF 436 GALLONS PER HOUR AT 80°F RISE AND A MAXIMUM HYDROSTATIC WORKING PRESSURE OF 160 PSI. WATER HEATER SHALL HAVE: MODULATING GAS BURNER, NON—SACRIFICIAL, MAINTENANCE FREE POWERED ANODES, SEAMLESS GLASS—LINED STEEL TANK CONSTRUCTION, FOAM INSULATION, AND DOWN—FIRED POWER BURNER. CONTROL SHALL BE AN INTEGRATED SOLID—STATE TEMPERATURE AND IGNITION CONTROL DEVICE WITH INTEGRAL DIAGNOSTICS, GRAPHIC USER INTERFACE, FAULT HISTORY DISPLAY, AND SHALL HAVE DIGITAL TEMPERATURE READOUT. WATER HEATER SHALL BE COMPLETE WITH: ASME RATED T&P RELIEF VALVE, BRASS DRAIN VALVE, CONCENTRIC VENT KIT, AND CONDENSATE NEUTRALIZATION KIT. ELECTRICAL: 120V/1ø/60Hz., 5.0 AMPS.
P-12			6"	-	3"	_	_	WATTS	9570SY	LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY BACKFLOW PREVENTER WITH UL/FM OUTSIDE STEM AND YOKE RESILIENT SEATED GATE VALVES. ASSEMBLY SHALL CONSIST OF TWO INDEPENDENT TORSION SPRING CHECK MODULES, A DIFFERENTIAL PRESSURE RELIEF VALVE, AND TWO DRIP TIGHT SHUT—OFF VALVES. SHUT—OFF VALVES, CHECK MODULES, AND RELIEF VALVE SHALL BE CONTAINED WITH A SLEEVE ACCESSIBLE SINGLE HOUSING WITH GROOVE END CONNECTIONS. TYPE 304 STAINLESS STEEL HOUSING AND SLEEVE. EPDM, SILICONE AND BUNA—N ELASTOMERS. NORYL AND STAINLESS STEEL TORSION SPRING CHECKS WITH REVERSIBLE SILICONE OR EPDM CHECK DISCS. BRONZE BODY NICKEL PLATED TEST COCKS. STAINLESS STEEL PINS, FASTENERS, AND SPRINGS. TEMPERATURE RANGE: 33°F TO 140°F. 175 PSI MAXIMUM WORKING PRESSURE. THE DEVICE SHALL BE APPROVED BY THE FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH AT THE UNIVERSITY OF SOUTHERN CALIFORNIA.
P-13		_	4"	2"	-	_	_	ZURN	Z-1901	SANI-FLOR RECEPTOR, 12" x 12" x 8" DEEP CAST IRON BODY AND SQUARE SLOTTED MEDIUM-DUTY ½ GRATE, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, 3" OUTLET.
P-14		_	4"	2"	1/2"	_	_	ZURN	Z-1901	SANI-FLOR RECEPTOR, 12" x 12" x 8" DEEP CAST IRON BODY AND SQUARE SLOTTED MEDIUM-DUTY GRATE, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, 3" OUTLET, AND TRAP SEAL.
P-15		_	3"	1½"	_	_	_	ZURN	Z-415	FLOOR DRAIN, DURA COATED, 7" ROUND NICKEL BRONZE TYPE "I" STRAINER WITH RAISED FLANGE, 3" OUTLET.
P-16			4"	_	_	_	-	JAY R SMITH	9660	6" WIDE STAINLESS STEEL TRENCH DRAIN WITH A BUILT-IN SLOPE OF 0.6%. CHANNEL HAS AN INTEGRAL METAL RAIL AND 4 WIDE THROAT WITH BOLTING END PLATES. TRENCH DRAIN SYSTEM SHALL BE COMPLETE WITH ALL REQUIRED END CAPS AND CHANNEL CHAIRS FOR A COMPLETE INSTALLATION. PROVIDE WITH EXTRA HEAVY DUTY SLOTTED STAINLESS STEEL GRATE MODEL 9660-490-SSHDE. GRATE SHALL HAVE 3-1/4"x3/8" SLOTTED OPENINGS WITH 42.6 SQUARE INCH OPEN AREA, CLASS E 135,000 POUNDS. REFER TO FLOOR PLANS FOR LENGTH.
P-17	+	├	_	_	½"	_	_	ZURN	Z1350	ENCASED WALL HYDRANT FOR FLUSH INSTALLATION WITH \(\frac{3}{4} \) MALE HOSE CONNECTION, TYPE 304 STAINLESS STEEL HOUSING WITH LOCKING HINGED COVER, OPERATING KEY AND WALL CLAMP.
P-18	+	├	_	_	3/4"	_	_	ZURN	Z1320XL	ENCASED, LEAD FREE, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING WALL HYDRANT FOR FLUSH INSTALLATION WITH \$\frac{3}{4}\] MALE HOSE CONNECTION, TYPE 304 STAINLESS STEEL HOUSING WITH LOCKING HINGED COVER, OPERATING KEY AND WALL CLAMP.
P-19	+	├	_	_	3/4"	_	_	WATTS	ES-HB-1	CAST BRASS HOSE BIB, BUILT—IN BACKFLOW PROTECTION, INTEGRAL VACUUM BREAKER, DRAINABLE IN COLD WEATHER, BACKSIPHONAGE PROTECTION.
								STERLING	OC-SS-39	MODULAR SHOWER WITH DURABLE SWIRL GLOSS FINISH, FOLDING TRANSFER SEAT WITH STAINLESS STEEL GRAB BAR, AND FACTORY INSTALLED STAINLESS STEEL GRAB BARS. SHOWER SHALL BE COMPRESSION MOLDED FROM VIKRELL. COLOR SHALL BE WHITE. UNIT DIMENSIONS: 39-3/8"x39-3/8"x72". UNIT SHALL BE SUPPLIED WITH 2" PVC SOLVENT WELD DRAIN WITH STAINLESS STEEL STRAINER, OATEY SERIES 101PS. UNIT SHALL COMPLY WITH THE FOLLOWING: IAPMO LISTED AND ANSI Z 124.2. SHOWER SHALL BE ADA COMPLIANT.
P-20		5	2"	1½"	1/2"	1/2"	_	SYMMONS	C-96-300-B30- V-X-CHKS	COMMERCIAL HAND SHOWER SYSTEM WITH SYMMONS TEMPTROL PRESSURE BALANCING MIXING VALVE AND LEVER STYLE HANDLE. VALVE SHALL INCLUDE ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, INTEGRAL SERVICE STOPS, AND INTEGRAL CHECK STOPS. T-300-V WALL/HAND SHOWER WITH 5-FOOT FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, WALL CONNECTION AND CRADLE FOR HAND SHOWER MOUNTING. 30 INCH SLIDE BAR. FOR MOUNTING HAND SHOWER. STANDARD FLOW RATE OF 2.5 GPM. POLISHED CHROME FINISH. LEVER HANDLE SHALL BE ADA COMPLIANT.
B C:				_	7 / 4 22			PENTEK	#10 BB - 3	FILTER HOUSING AND LEAD, CYST, CHLORINE TASTE, AND ODOR REDUCTION FILTER. LARGE CAPACITY POLYPROPYLENE HOUSING AND CAP SUITABLE FOR HIGH FLOW APPLICATIONS, CERTIFIED BY NSF TO STANDARD 42, AND 10" HOUSING LENGTH WITH ACCEPTANCE OF 4-1/2" DIAMETER FILTER CARTRIDGES. FILTER LEAD REDUCTION CAPACITY OF 8,000
P-21	-		_	_	3/4"	_	_	KX TECHNOLOGIES	PB1 06-425-200-975	GALLONS, 2.5 GPM MAXIMUM FLOW RATE AND INITIAL PRESSURE DROP OF 7.0 PSI. FILTER IS TO HAVE BEEN TESTED TO NSF 42 AND NSF 53. LEAD REDUCTION SHALL BE BELOW 15 PART PER BILLION. TO BE USED FOR COLD SUPPLIES ONLY.
P-22			-	_	½"	_	-	ELKAY	ECH8GRN	REMOTE CHILLER WITH HERMETICALLY—SEALED COMPRESSOR, FAN COOLED CONDENSER, COMBINATION TUBE—TANK TYPE COOLING UNIT AND TEMPERATURE CONTROL. CHILLER SHALL HAVE CAPACITY OF 8.0 GPH, ELECTRICAL: 115V/60Hz., 2.3 FULL LOAD AMPS, 260 WATTS. PROVIDE CHILLER WITH CHILLER SHELF, MODEL PM3, LOUVERED GRILL, MODEL EG—1 AND DISCONNECT SWITCH.
P-23	+	├	_	-	3/4"	_	_	ZURN	Z1395XL	EXPOSED HEAD, LEAD FREE, NON-FREEZE YARD HYDRANT WITH \(\frac{3}{4}\)" MALE HOSE CONNECTION, DURA-COATED CAST IRON HEAD AND LIFT HANDLE, GALVANIZED STEEL CASING, BRONZE AND STAINLESS STEEL INTERIOR COMPONENTS.
										REMOTE CHILLER WITH HERMETICALLY-SEALED COMPRESSOR, FAN COOLED CONDENSER, COMBINATION TUBE-TANK TYPE

 Date
 10/15/21

 Checked
 SZ

 Drawn
 BH/DC/KC

SCOTT P. ZIEGLER

Revisions:

PERMIT SET
10/15/21

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GERARD
ASSOCIATES
CONSULTING ENGINEERS, P.C.
223 MAIN STREET, GOSHEN NY 10924
TEE: (845) 291 1272

ANN STREET, GOSHEN, NEW YORK 10924 (845)615-0350

PLUMBING:
EQUIPMENT SCHEDULES
SPIRE BREWING TAP ROOM & BREWERY
R SONNY PATEL BREWING COMPANY, INC.
V600 NORTH GALLERIA DRIVE LOWER LEVEL
MIDDLETOWN, NY 10941

Job No. 4.1552.01
File No. 4155201 P702

P7.02

								PLUMBIN	IG EQUIPMENT	Γ SCHEDULE
TAG	SYME			PLUMBING CON			010	MANUFACTURER	CATALOG#	DESCRIPTION
P-25	PLAN	ELEVATION	SAN./STORM (2) 2"	VENT	COLD	HOT	GAS	ADVANCE TABCO	FC-2-2424-18RL	STAINLESS STEEL FOOD SERVICE SINK WITH TWO 24"Lx24"Wx14"H COMPARTMENTS, 18" LONG LEFT AND RIGHT DRAINBOARDS, 8½" BACKSPLASH, 16 GAUGE, 304 STAINLESS STEEL CONSTRUCTION AND ADJUSTABLE FEET, RAISED 1 1/2" ROLLED EDGE WITH 3 1/2" DRAIN WITH BASKET STRAINER. SINK SHALL HAVE 1 1/8" FAUCET HOLES ON 8" CENTERS. OVERALL DIMENSIONS OF SINK SHALL BE 84"Lx30"Wx43"H.
P-25			(2) 2	_	/2	72	_	T & S	B-0231-CR	CHROME, WALL MOUNT, 8" CENTERSET, COMMERCIAL FAUCET WITH 12" SWING NOZZLE SPOUT, SOLID BRASS CONSTRUCTION, CERAMIC CARTRIDGES WITH CHECK VALVES, 1.5 GPM VANDAL—RESISTANT AERATOR WITH LEVER HANDLES. FAUCET SHALL BE ADA COMPLIANT. FAUCET SHALL BE RATED FOR UP TO 180°F WATER.
								ADVANCE TABCO	FC-3-2424-18RL	STAINLESS STEEL FOOD SERVICE SINK WITH THREE 24"Lx24"Wx14"H COMPARTMENTS, 18" LONG LEFT AND RIGHT DRAINBOARDS, 8½" BACKSPLASH, 16 GAUGE, 304 STAINLESS STEEL CONSTRUCTION AND ADJUSTABLE FEET, RAISED 1 1/2" ROLLED EDGE WITH 3 1/2" DRAIN WITH BASKET STRAINER. SINK SHALL HAVE 1 1/8" FAUCET HOLES ON 8" CENTERS. OVERALL DIMENSIONS OF SINK SHALL BE 108"Lx30"Wx43"H.
P-26			(3) 2"	-	(2) ½"	(2) ½"	-	KROWNE	DX-109	CHROME, WALL MOUNT, 8" CENTERSET, COMMERCIAL PRE RINSE FAUCET WITH 12" SWING NOZZLE SPOUT AND 1.15 GPM DUAL SPRAY HEAD VALVE, SOLID BRASS CONSTRUCTION, CERAMIC CARTRIDGES WITH CHECK VALVES, 1.8 GPM VANDAL—RESISTANT AERATOR WITH LEVER HANDLES. FAUCET SHALL BE ADA COMPLIANT. FAUCET SHALL BE RATED FOR 180°F WATER. FAUCET SHALL BE MOUNTED ON LEFT HAND SIDE OF SINK. FAUCET SHALL BE SUPPLIED WITH ADJUSTABLE WALL BRACKET AND MOUNTING KIT.
								T & S	B-0231-CR	CHROME, WALL MOUNT, 8" CENTERSET, COMMERCIAL FAUCET WITH 12" SWING NOZZLE SPOUT, SOLID BRASS CONSTRUCTION, CERAMIC CARTRIDGES WITH CHECK VALVES, 1.5 GPM VANDAL—HESITANT AERATOR WITH LEVER HANDLES. FAUCET SHALL BE ADA COMPLIANT. FAUCET SHALL BE RATED FOR 180°F WATER. FAUCET SHALL BE MOUNTED ON RIGHT HAND SIDE OF SINK.
								ADVANCE TABCO	FC-3-2424	STAINLESS STEEL FOOD SERVICE SINK WITH THREE 24"Lx24"Wx14"H COMPARTMENTS, 8½" BACKSPLASH, 16 GAUGE, 304 STAINLESS STEEL CONSTRUCTION AND ADJUSTABLE FEET, RAISED 1 1/2" ROLLED EDGE WITH 3 1/2" DRAIN WITH BASKET STRAINER. SINK SHALL HAVE 1 1/8" FAUCET HOLES ON 8" CENTERS. OVERALL DIMENSIONS OF SINK SHALL BE 77"Lx30"Wx43"H.
P-27	0 0 0		(3) 2"	-	(2) ½"	(2) ½"	_	KROWNE	DX-109	CHROME, WALL MOUNT, 8" CENTERSET, COMMERCIAL PRE RINSE FAUCET WITH 12" SWING NOZZLE SPOUT AND 1.15 GPM DUAL SPRAY HEAD VALVE, SOLID BRASS CONSTRUCTION, CERAMIC CARTRIDGES WITH CHECK VALVES, 1.8 GPM VANDAL—RESISTANT AERATOR WITH LEVER HANDLES. FAUCET SHALL BE ADA COMPLIANT. FAUCET SHALL BE RATED FOR 180'F WATER. FAUCET SHALL BE MOUNTED ON LEFT HAND SIDE OF SINK. FAUCET SHALL BE SUPPLIED WITH ADJUSTABLE WALL BRACKET AND MOUNTING KIT.
								T & S	B-0231-CR	CHROME, WALL MOUNT, 8" CENTERSET, COMMERCIAL FAUCET WITH 12" SWING NOZZLE SPOUT, SOLID BRASS CONSTRUCTION, CERAMIC CARTRIDGES WITH CHECK VALVES, 1.5 GPM VANDAL—HESITANT AERATOR WITH LEVER HANDLES. FAUCET SHALL BE ADA COMPLIANT. FAUCET SHALL BE RATED FOR 180°F WATER. FAUCET SHALL BE MOUNTED ON RIGHT HAND SIDE OF SINK.
P-28			<i>Y</i> ₂ "	-	2"	2"	3"	AO SMITH	BTHS-1000A	ASME CONSTRUCTED, POWER DIRECT VENTING, NATURAL GAS HOT WATER HEATER WITH 97% THERMAL EFFICIENCY WITH STORAGE CAPACITY OF 120 GALLONS; AN INPUT RATING OF 1,000,000 BTUH, A RECOVERY RATING OF 905 GALLONS PER HOUR AT 130°F RISE AND A MAXIMUM HYDROSTATIC WORKING PRESSURE OF 160 PSI. WATER HEATER SHALL HAVE: MODULATING GAS BURNER, NON—SACRIFICIAL, MAINTENANCE FREE POWERED ANODES, INTELLIGENT DEMAND RESPONSE, SEAMLESS GLASS—LINED STEEL TANK CONSTRUCTION, FOAM INSULATION, AND DOWN—FIRED POWER BURNER. CONTROL SHALL BE AN INTEGRATED SOLID—STATE TEMPERATURE AND IGNITION CONTROL DEVICE WITH INTEGRAL DIAGNOSTICS, GRAPHIC USER INTERFACE, FAULT HISTORY DISPLAY, AND SHALL HAVE DIGITAL TEMPERATURE READOUT. WATER HEATER SHALL BE COMPLETE WITH: ASME RATED T&P RELIEF VALVE, BRASS DRAIN VALVE, AND CONDENSATE NEUTRALIZATION KIT. ELECTRICAL: 120V/1ø/60Hz., 5.0 AMPS.
P-29	_	_	-	-	1½"	1½"	-	BRADLEY	S19-2350 (EFX120RB000)	EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE WITH INTEGRAL STRAINER CHECKSTOPS ON INLETS, ADJUSTABLE SET POINT TEMPERATURE, BUILT—IN COLD WATER BYPASS, POSITIVE SHUTOFF OF HOT SUPPLY WHEN COLD SUPPLY IS LOST. TEMPERATURE RANGE OF 65°F — 90°F, SET POINT OF 80°F, MAXIMUM WORKING PRESSURE OF 125 PSI, MAXIMUM INLET TEMPERATURE OF 180°F. VALVE SHALL MEET ANSI Z358.1—2009 STANDARD. MIXING VALVE SHALL BE COMPLETE WITH ROUGH BRASS VALVES, AND SURFACE MOUNTED STAINLESS STEEL CABINET WITH PLEXI—GLASS WINDOW IN DOOR. VALVE SHALL HAVE 13 PSI PRESSURE DROP AT 54 GPM.
P-30	_	_	_	_	2"	2"	-	BRADLEY	S19-2200 (EFX60RBOSSW)	EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE WITH INTEGRAL STRAINER CHECKSTOPS ON INLETS, ADJUSTABLE SET POINT TEMPERATURE, BUILT—IN COLD WATER BYPASS, POSITIVE SHUTOFF OF HOT SUPPLY WHEN COLD SUPPLY IS LOST. TEMPERATURE RANGE OF 65°F — 90°F, SET POINT OF 80°F, MAXIMUM WORKING PRESSURE OF 125 PSI, MAXIMUM INLET TEMPERATURE OF 180°F. VALVE SHALL MEET ANSI Z358.1—2009 STANDARD. MIXING VALVE SHALL BE COMPLETE WITH ROUGH BRASS VALVES, AND SURFACE MOUNTED STAINLESS STEEL CABINET WITH PLEXI—GLASS WINDOW IN DOOR. VALVE SHALL HAVE 8 PSI PRESSURE DROP AT 27 GPM.
P-31	-	-	-	-	1½"	1½"	-	BRADLEY	S59-3045 (HL45RSB000)	LEAD-FREE THERMOSTATIC MIXING VALVE WITH INTEGRAL STRAINER CHECKSTOPS ON INLETS, ADJUSTABLE SET POINT TEMPERATURE, POSITIVE SHUTOFF OF HOT SUPPLY WHEN COLD SUPPLY IS LOST OR THERMOSTAT FAILURE. TEMPERATURE RANGE OF 65°F - 90°F, SET POINT OF 80°F, MAXIMUM WORKING PRESSURE OF 125 PSI, MAXIMUM INLET TEMPERATURE OF 180°F. MIXING VALVE SHALL BE COMPLETE WITH ROUGH BRASS VALVES, WALL MOUNTING BRACKET. VALVE SHALL HAVE 14 PSI PRESSURE DROP AT 24 GPM.
P-32			(2) 1½"	1½"	1/2"	1/2"	_	ELKAY	LRAD332155	TYPE 304 STAINLESS STEEL, TOP MOUNT, DOUBLE BOWL, ADA COMPLIANT SINK. OVERALL DIMENSIONS 33"Lx21-1/4"W BY 5-1/2"DEEP. 3 FAUCET HOLES ON 4" CENTERS, OFF-CENTERED READ DRAIN OPENING LOCATION. EXPOSED SURFACES SHALL HAVE SATIN FINISH. FULLY UNDERCOATED TO DAMPEN SOUND AND PREVENT CONDENSATION. PROVIDE ELKAY LKVR18B STAINLESS STEEL VANDAL-RESISTANT GRID STRAINER AND TRUEBRO MODEL 103 E-Z LAV GUARD IN ADA LOCATIONS
								MOEN	8244	TWO-HANDLE KITCHEN FAUCET WITH SIDE SPRAY. BRASS CONSTRUCTION WITH CHROME PLATED FINISH. FAUCET SHALL BE ADA COMPLIANT. HANDLES SHALL BE WRIST BLADE STYLE WITH HOT AND COLD COLOR INDICATORS AND VANDAL RESISTANT TORX HEAD SCREWS. 1.5 GPM MAX FLOWRATE.
P-33			1½"	1½"	<i>7</i> ₂ "	1/2"	_	KOHLER	K-8223	NEOROC, UNDER MOUNT, SINGLE BOWL, ADA COMPLIANT BAR SINK. OVERALL DIMENSIONS 15-1/2"Lx15-1/2"W BY 10-1/8"DEEP. CENTER DRAIN OPENING LOCATION. PROVIDE ELKAY LKVR18B STAINLESS STEEL VANDAL-RESISTANT GRID STRAINER AND TRUEBRO MODEL 103 E-Z LAV GUARD IN ADA LOCATIONS. SINK SHALL BE MATTE BLACK.
								DELTA	9159-DST-BL	MATTE BLACK, SINGLE HANDLE, DECK MOUNT FAUCET, WITH 2-FUNCTION PULL-DOWN SPRAYER. FAUCET SHALL BE LEAD FREE, ADA COMPLIANT AND NSF-61 LISTED AND APPROVED. FLOW RATE 1.8 GPM.
P-34	•	_	3"	1½"	_	-	_	THUNDERBIRD	BDPB3NH	PLANTER BOX DRAIN, 6" ROUND PLASTIC GRATE WITH 316 STAINLESS STEEL CLAMPING RING, PERFORATED PVC STAND PIPE, 3" OUTLET.
P-35			1¼"	-	_	1¼" (TEPID)	-	BRADLEY	S19314	BARRIER-FREE COMBINATION DRENCH SHOWER AND HALO EYE/FACE WASH. SHOWER VALVE OPERATED BY PULL ROD WITH TRIANGULAR HANDLE. HALO EYE/FACE WASH OPERATED BY PUSH HANDLE. UNIT SHALL BE UL CLASSIFIED AND MEET ANSI STANDARD Z358.1. 1-1/4" GALVANIZED STEEL PIPING ASSEMBLY WITH SAFETY YELLOW COATING. 1" STAY OPEN SHOWER AND ½" STAY OPEN EYE/FACE WASH CHROME-PLATED BRASS BALL VALVES. SHOWER HEAD SHALL DELIVER 22 GPM. EYE/FACE WASH SHALL DELIVER 5.1 GPM. YELLOW IMPACT RESISTANT PLASTIC SHOWER HEAD, BOWL AND DUST COVER. TYPE 304 STAINLESS STEEL ACTIVATION HANDLE AND DRENCH HOSE KIT WITH VACUUM BREAKER. FIXTURE SHALL BE COMPLETE WITH UNIVERSAL IDENTIFICATION SIGN AND INSPECTION TAG.
P-36			_	-	-	3/4"	-	AMTROL	ST-5C-DD	EXPANSION TANK WITH TANK VOLUME OF 2.0 GALLONS AND AN ACCEPTANCE VOLUME OF 0.9 GALLONS. TANK SHALL BE ANSI/NSF 61 FOR POTABLE WATER USE AND SHALL BE ASME RATED. MAXIMUM OPERATING TEMPERATURE 200°F AND MAXIMUM WORKING PRESSURE 150 PSI.
P-37			-	-	_	3/4"	-	AMTROL	ST-12C-DD	EXPANSION TANK WITH TANK VOLUME OF 6.4 GALLONS AND AN ACCEPTANCE VOLUME OF 3.2 GALLONS. TANK SHALL BE ANSI/NSF 61 FOR POTABLE WATER USE AND SHALL BE ASME RATED. MAXIMUM OPERATING TEMPERATURE 200°F AND MAXIMUM WORKING PRESSURE 150 PSI.
P-38	Ø	Ø	-	-	_	3/4"	-	TACO	003-B4	LOW-LEAD COMPLIANT, NSF 61, BRONZE, SELF-LUBRICATING, HOT WATER RECIRCULATION PUMP. FLOW RANGE: 0-7 GPM. HEAD RANGE: 0-4.5 FEET. PUMP MAXIMUM WORKING PRESSURE 125 PSI AND MAXIMUM OPERATING TEMPERATURE 220°F. PROVIDE TACO 563-2 TEMPERATURE AQUASTAT. PROVIDE DISCONNECT SWITCH. ELECTRICAL: 120V/1ø/60Hz., 0.43 AMPS, 3250 RPM, AND 1/40 HP.
P-39			6"	-	_	-	_	PARK	SSB-150	CONCRETE SOLIDS INTERCEPTOR AND EXTENSION RINGS WITH STAINLESS STEEL FINISH. SOLIDS INTERCEPTOR SHALL BE COMPLETE WITH 24" DIA. DUCTILE IRON RING WITH COVER, SOLIDS SCREEN, BASIN SECTION, BITUMASTIC EXTERIOR LINER, BASKET FRAME STAINLESS STEEL LIFTING HANDLES, PLASTIC FLEXIBLE GASKET, HIGH LEVEL ALARM FLOAT SWITCH AND SERVICE ALERT PANEL WITH AUDIBLE AND VISUAL ALARM AND NO HUB CONNECTION. 150 GPM FLOW RATE AND 40 LBS SOLIDS CAPACITY. EXTENSION HEIGHT TO BE VERIFIED BY PLUMBING CONTRACTOR PRIOR TO ORDERING BASED ON FINAL LAYOUT OF PIPING SYSTEM.
P-40		D	3"	1½"	_	-	_	JAY R SMITH	2005Y(B)	FLOOR DRAIN WITH DUCO CAST IRON BODY, FLASHING COLLAR, SEDIMENT BUCKET, VANDAL PROOF SCREWS AND 6"x6" SQUARE ADJUSTABLE STRAINER HEAD. FLOOR DRAINS SHALL BE PROVIDED WITH TRAP SEALS.
P-41			4"	6"	_	-	-	BURT	BPBDN-1000	BATCH PH NEUTRALIZATION SYSTEM WITHIN SHIPPING CONTAINER. SYSTEM SHALL CONSIST OF (2) AVS—1000 BATH NEUTRALIZATION TANKS WITH HOMOPOLYMER POLYPROPYLENE CONSTRUCTION, (2) TANK MIXERS ANGLE MOUNTED ON TANK RAILS WITH A SINGLE HYDROFOIL STYLE IMPELLER AND T316 SS SHAFT WITH A MINIMUM DIAMTER OF ¾," (2) pH SENSORS LOCATED WITHIN REACTION TANK AND EFFLUENT DISCHARGE, REAGENT LIQUID LEVEL CONTROLS, (2) 70—GALLON REAGENT TANKS CONSTRUCTED HIGH DENSITY POLYETHYLENE WITH UV INHIBITOR, (2) CHEMICAL METERING PUMPS, NEMA 12 TYPE CONTROL ENCLOSURE WITH FUSED DISCONNECT SWITCH, EMERGENCY STOP BUTTON, SIEMENS PLC/HMI FOR AUTOMATIC BATCH CONTROL, COMMON ALARM HORN AND SILENCE BUTTON, COMMON ALARM BEACON, ALL REQUIRED INTERNAL WIRING FOR ALL MOTORS/CIRCUIT PROTECTION, PH CONTROLLERS AND RECORD, (2) PH ANALYZERS/CONTROLLERS WITHIN NEMA 4X ENCLOSURE, EFFLUENT MONITORING WET WELL AND FLOW SENSOR. ENTIRE SYSTEM SHALL BE INSTALLED WITHIN A MODIFIED SHIPPING CONTAINER. CONTAINER SHALL HAVE HEAVY—GAUGE STEEL DOUBLE PERSONNEL DOORS, SINGLE BORE DOOR, 2" CIRCULAR FLOOR DRAIN, R—21 CLOSED CELL SPRAY—APPLIED FOAM INSULATION, OPERABLE CARGO DOORS AR END OF CONTAINER, 3TON BARD HVAC UNIT WITH 10KW ELECTRIC HEAT(@ 460V), 120V POWER DISTRIBUTION CENTER FEED FROM THE MAIN 460V DROP TO CONTROL PANEL WILL BE USED FOR CONTAINER LIGHTING AND CONVENIENCE OUTLETS. CONTAINER ELECTRICAL: 460/3ø/60, 30 AMP BREAKER. HVAC UNIT SHALL HAVE SEPARATE POWER FEED. CONTACT MARK GIRGENTI AT BURT PROCESS EQUIPMENT AT 1(203)—508—1244 / MARKGIRGENTI@BURTPROCESS.COM FOR ADDITIONAL INFORMATION.
P-42			6"IN/4"OUT	2½"	_	_	_	BURT	PPS-500JXD34	DUPLEX TRANSFER PUMP LIFT STATION CONSISTING OF: TWO 316SS SUBMERSIBLE SUMP PUMPS RATED FOR 180°F, AUTOMATIC LIQUID LEVEL CONTROL, COPOLYMER POLYPROPYLENE BASIN WITH EXTRUSION WELDED EXTERIOR AND TRIPLE BEAD WELDED INTERIOR, REINFORCED COVER, STRUCTURAL SUPPORT GIRTHS, REDUNDANT HIGH LEVEL ALARM, GUIDED WAVE RADAR LEVEL CONTROL, CONTROL PANEL AND ALL NECESSARY APPURTENANCES REQUIRED FOR A PROPERLY OPERATING PUMPING SYSTEM. PUMPS SHALL PUMP MOTORS SHALL HAVE A MAXIMUM SIZE OF 5 HORSEPOWER AND SHALL OPERATE AT A MAXIMUM SPEED OF 3450 RPM, AND BE SUITABLE FOR OPERATION WITH 460 VOLTS, 3 PHASE, 60HZ. MOTORS SHALL BE OIL—FILLED, CONTINUOUS—DUTY RATED, MECHANICALLY SEALED WITH CLASS R INSULATION, STAINLESS STEEL CONSTRUCTION, THERMAL SENSORS, SEAL MINDER MOISTURE SENSING PROBE FOR LEAK DETECTION AND RATED FOR 200°F LIQUID. PUMP SHALL BE 5HP, 460/3ø/60HZ AND DESIGNED FOR 100 GPM AT 40° TOTAL DYNAMIC HEAD. SYSTEM SHALL HAVE 4" DISCHARGE CONNECTION AND 2½" VENT CONNECTION. PUMP SHALL BE REMOVABLE FROM SUMP PIT WITHOUT NEED FOR PERSONNEL ENTERING THE PIT OR THE REMOVAL OF ANY FASTENERS. MECHANICAL SEAL SHALL BE VITON ELASTOMERS. PUMPS TO HAVE CURVE CHARACTERISTIC SO AS NOT TO OVERLOAD THE MOTOR AT ANY POINT THROUGHOUT ITS ENTIRE RANGE. PROVIDE AND INSTALL A CHECK AND GATE VALVE SPECIFICALLY DESIGNED FOR SEWAGE EJECTOR PUMP SERVICE IN EACH DISCHARGE LINE. PUMP MANUFACTURER SHALL WARRANT THE PUMPS AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF (5) YEARS. BASIN SHALL HAVE A 6" INLET AT A HEIGHT OF 68" BELOW FINISHED FLOOR, CONTRACTOR SHALL COORDINATE FINAL HEIGHT BASED ON APPROVED SANITARY LAYOUT. CONTACT MARK GIRGENTI AT BURT PROCESS EQUIPMENT AT 1(203)—508—1244 / MARKGIRGENTI@BURTPROCESS.COM FOR ADDITIONAL INFORMATION.

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GERARD
ASSOCIATES
CONSULTING ENGINEERS, P.C.
223 MAIN STRET, GOSHEN NY 10924
TEL: (845) 291 1272
into@GerardAssociates.com
www.GerardAssociates.com

ANN STREET, GOSHEN, NEW YORK 10924 (845)615-0350

EQUIPMENT SCHEDULES

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INNY PATEL BREWING COMPANY, INC.

NORTH GALLERIA DRIVE LOWER LEVEL

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