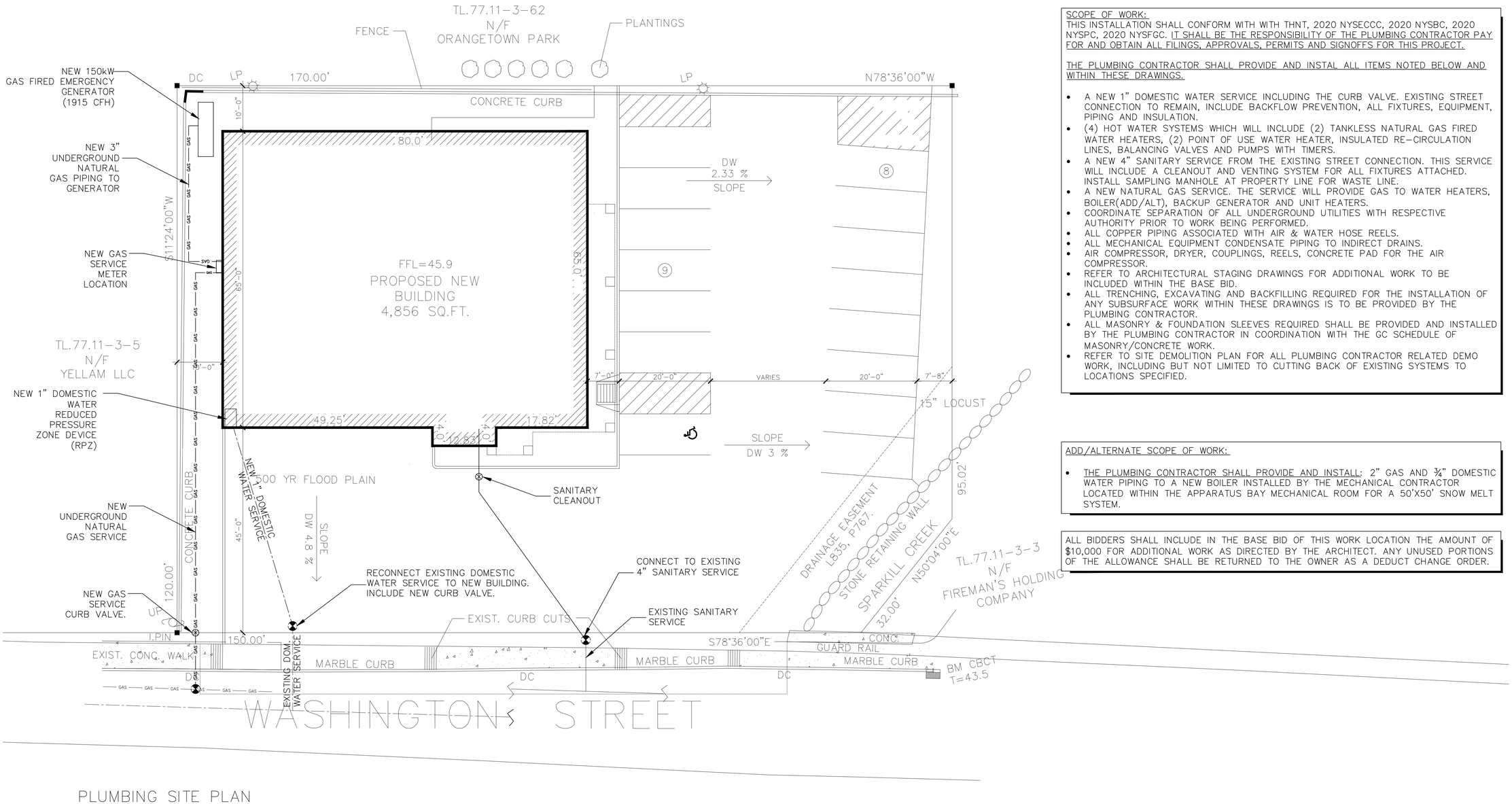

PLUMBING SITE PLAN

SCALE: 1/16" = 1'-0"

DRAWING LIST:

P-1	PLUMBING SITE PLAN
P-2	PLUMBING FIXTURE SCHEDULE & SPECIALTY SCHEDULE
P-3	FIRST FLOOR DOMESTIC WATER PLAN
P-4	SECOND FLOOR DOMESTIC WATER PLAN
P-5	FIRST FLOOR SANITARY PLAN
P-6	SECOND FLOOR SANITARY PLAN
P-7	DOMESTIC WATER RISER DIAGRAM
P-8	SANITARY RISER DIAGRAM
P-9	NATURAL GAS RISER DIAGRAM
P-10	PLUMBING DETAILS
P-11	PLUMBING NOTES

SCOPE OF WORK:
THIS INSTALLATION SHALL CONFORM WITH WITH THNT, 2020 NYSECCC, 2020 NYSBC, 2020 NYSPC, 2020 NYSFGC. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR PAY FOR AND OBTAIN ALL FILINGS, APPROVALS, PERMITS AND SIGNOFFS FOR THIS PROJECT.

THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTAL ALL ITEMS NOTED BELOW AND WITHIN THESE DRAWINGS.

- A NEW 1" DOMESTIC WATER SERVICE INCLUDING THE CURB VALVE. EXISTING STREET CONNECTION TO REMAIN, INCLUDE BACKFLOW PREVENTION, ALL FIXTURES, EQUIPMENT, PIPING AND INSULATION.
- (4) HOT WATER SYSTEMS WHICH WILL INCLUDE (2) TANKLESS NATURAL GAS FIRED WATER HEATERS, (2) POINT OF USE WATER HEATER, INSULATED RE-CIRCULATION LINES, BALANCING VALVES AND PUMPS WITH TIMERS.
- A NEW 4" SANITARY SERVICE FROM THE EXISTING STREET CONNECTION. THIS SERVICE WILL INCLUDE A CLEANOUT AND VENTING SYSTEM FOR ALL FIXTURES ATTACHED. INSTALL SAMPLING MANHOLE AT PROPERTY LINE FOR WASTE LINE.
- A NEW NATURAL GAS SERVICE. THE SERVICE WILL PROVIDE GAS TO WATER HEATERS, BOILER(ADD/ALT), BACKUP GENERATOR AND UNIT HEATERS.
- COORDINATE SEPARATION OF ALL UNDERGROUND UTILITIES WITH RESPECTIVE AUTHORITY PRIOR TO WORK BEING PERFORMED.
- ALL COPPER PIPING ASSOCIATED WITH AIR & WATER HOSE REELS.
- ALL MECHANICAL EQUIPMENT CONDENSATE PIPING TO INDIRECT DRAINS.
- AIR COMPRESSOR, DRYER, COUPLINGS, REELS, CONCRETE PAD FOR THE AIR COMPRESSOR.
- REFER TO ARCHITECTURAL STAGING DRAWINGS FOR ADDITIONAL WORK TO BE INCLUDED WITHIN THE BASE BID.
- ALL TRENCHING, EXCAVATING AND BACKFILLING REQUIRED FOR THE INSTALLATION OF ANY SUBSURFACE WORK WITHIN THESE DRAWINGS IS TO BE PROVIDED BY THE PLUMBING CONTRACTOR.
- ALL MASONRY & FOUNDATION SLEEVES REQUIRED SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR IN COORDINATION WITH THE GC SCHEDULE OF MASONRY/CONCRETE WORK.
- REFER TO SITE DEMOLITION PLAN FOR ALL PLUMBING CONTRACTOR RELATED DEMO WORK, INCLUDING BUT NOT LIMITED TO CUTTING BACK OF EXISTING SYSTEMS TO LOCATIONS SPECIFIED.

ADD/ALTERNATE SCOPE OF WORK:

- THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL: 2" GAS AND ¾" DOMESTIC WATER PIPING TO A NEW BOILER INSTALLED BY THE MECHANICAL CONTRACTOR LOCATED WITHIN THE APPARATUS BAY MECHANICAL ROOM FOR A 50'X50' SNOW MELT SYSTEM.

ALL BIDDERS SHALL INCLUDE IN THE BASE BID OF THIS WORK LOCATION THE AMOUNT OF $10,000 FOR ADDITIONAL WORK AS DIRECTED BY THE ARCHITECT. ANY UNUSED PORTIONS OF THE ALLOWANCE SHALL BE RETURNED TO THE OWNER AS A DEDUCT CHANGE ORDER.

DATE: ISSUE

SEAL:

SENDLEWSKI ARCHITECTS PC
ARCHITECTS - PLANNERS
215 ROANOKE AVENUE
RIVERHEAD, NY 11901
(631) 727-5352
9 SELENA COURT
WALDEN, NY 12586
(845) 275-8859

TAPPAN FIRE DISTRICT
123 WASHINGTON STREET
TAPPAN NY, 10983

PLUMBING SITE PLAN

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P: /BID

DRAWING#:

P-1

FIXTURE SCHEDULE

WC – FLOOR MOUNTED WATER CLOSET (ADA COMPLIANT)

FIXTURE FLOOR MOUNTED ELONGATED SIPHON ACTION BOWL, VITREOUS CHINA WITH SEAT, OPERATES AT 1.00 GPF, PRESSRE ASSIST
MODEL K–3519 KOHLER HIGHLINE SERIES. WITH TOILET SEAT.

LAV UNDERMOUNT LAVATORY

FIXTURE: CLASSIC OVAL UNDERMOUNT SINK, VITREOUS CHINA, UNGLAZED RIM, FRONT OVERFLOW, OVAL 17"x14" BOWL, CENTER DRAIN, SUPPLIED WITH UNDERCOUNTER MOUNTING KIT AMERICAN STANDARD ESTATE MODEL 0484.000

TRAP 1 1/4" CHROME PLATED "P" – TRAP, TRAP NIPPLE AND ESCUTCHEON PLATE.

SUPPLY 3/8" NIPPLES AND ESCUTCHEONS WITH 3/8" ANGLE STOPS.

FAUCET HARDWIRED, DECK MOUNTED, INFRARED SENSOR, 0.5 GPM, MULTI–LAMINAR SPRAY TYPE, 4" TRIM PLATE, POLISHED CHROME, BELOW DECK CONTROL ACCESS, BELOW DECK THERMOSTATIC MIXING VALVE, ADA COMPLIANT, ASME A112.18.1 COMPLIANT.
MODEL: SLOAN OPTIMA ETF–880.

SHWR SHOWER (ADA)

BASE BARRIER FREE PRECAST TERRAZZO 60"x36" (60" WIDE THRESHOLD) FLANGES ON THREE (3) SIDES SHALL BE GALVANIZED–BONDERIZED STEEL AND EXTEND NOT LESS THAN 1" ABOVE SHOULDERS, SHOULDERS ON THREE (3) SIDES SHALL NOT BE LESS THAN 2–½" INSIDE FOR INSTALLATION. THRESHOLD SHALL BE NOT MORE THAN ½" ABOVE RECEPTOR FLOOR TO ALLOW FOR BARRIER FREE ENTRANCE. DRAIN BODY WILL BE BRASS, CAST INTEGRAL, AND WILL PROVIDE FOR A NON–CAUKED CONNECTION NOT LESS THAN ONE (1) INCH DEEP TO A 2" PIPE. RECEPTOR. THE RECEPTOR CONSTRUCION SHALL BE OF TAN AND WHITE MARBLE CHIPS CAST IN WHITE PORTLAND CEMENT TO PRODUCE A COMPRESSIVE STRENGTH OF NOT LESS THAN 3,000 PSI, SEVEN (7) DAYS AFTER CASTING. TERRAZZO SURFACE SHALL BE GROUND, POLISHED, AND THE ENTIRE UNIT SEALED TO RESIST STAINS AND MOSTURE AFTER ANY AIR HOLES AND OR PITS ARE GROUND. RECEPTOR SHALL BE REINFORCED WITH 16 GAUGE WIRE AND FURNISHED WITH REMOVABLE STAINLESS STEEL STRAINER PLATE. FLORESTONE OR EQUAL MODEL No. 400.

TRAP 2" CAST IRON
SUPPLY 1/2" NPT DIRECT SWEAT TYPE
SHOWER FITTING– CAST BRASS VALVE BODY, WASHERLESS 47mm CERAMIC DISC VALVE CARTRIDGE WITH VOLUME CONTROL, TEMPERATURE CONTROL, SCREWDRIVER STOPS, AND HOT LIMIT SAFETY STOP. PRESSURE BALANCING CARTRIDGE MAINTAINS CONSTANT OUTPUT TEMPERATURE IN RESPONSE TO CHANGES IN RELATIVE HOT AND COLD WATER SUPPLY PRESSURE AND AVOIDS FAILURE DUE TO MINERAL DEPOSITS. TRIM SHALL BE POLISHED CHROME AND INCLUDE MINIMUM 2.5 GPM FLOW RESTRICTED ADJUSTABLE SPRAY SHOWER HEAD, CHROME METAL LEVER HANDLE, CHROME PLATED BRASS WALL ESCUTCHEON AND SHOWER ARM. AMERICAN STANDARD OR EQUAL VALVE BODY MODEL NO. R125SS, AND TRIM MODEL NO T000.501

AIR COMPRESSOR

DESCRIPTION: INGERSOLL RAND MODEL 2475N5. 17.2 CFM @ 90 PSI, 175 PSI MAX, 5 H.P., 28"L x 38"W x 69"H, ¾" OUTLET, 208V/1PH/60HZ

GWSH–1 GEAR WASHER (PURCHASED BY OWNER INSTALLED BY PLUMBER)

DESCRIPTION: 60 LB CAPACITY GEAR WASHER EXTRACTOR OVERALL SIZE 34.5"W x 52.3"D x 54.0"HIGH, WATER VALVES 0.8", DRAIN VALVE 3". ELECTRICAL DATA BASKET DRIVE MOTOR– 5 HP, SINGLE MOTOR DRIVE– 5 HP.
MFG. MILNOR MODEL No. 30022 V6J

DF WATER COOLER W/ BOTTLE FILLING STATION

FIXTURE UNIT SHALL INCLUDE AN ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION. LZS8WSSP SHALL DELIVER 8 GPH OF 50°F OF DRINKING WATER AT 90°F AMBIENT AND 80°F INLET WATER. LOWER UNIT SHALL HAVE PUSHBAR ACTIVATION. BOTTLE FILLING UNIT SHALL INCLUDE AN ELECTRONIC SENSOR FOR TOUCHLESS ACTIVATION WITH AN AUTOMATIC 20–SECOND SHUT–OFF TIMER. LED LIGHT ILLUMINATING THE WATER DISPENSING AREA, BRIGHTENING AS WATER IS BEING DISPENSED. SHALL INCLUDE A GREEN TICKER™DISPLAYING COUNT OF PLASTIC BOTTLES SAVED FROM WASTE. BOTTLE FILLER SHALL PROVIDE A 1.1 GPM FLOW RATE WITH LAMINAR FLOW TO MINIMIZE SPLASHING. SHALL INCLUDE THE WATERSENTRY® PLUS 3000–GALLON CAPACITY FILTER, CERTIFIED TO NSF/ANSI 42 & 53, WITH VISUAL FILTER MONITOR TO INDICATE WHEN REPLACEMENT IS NECESSARY. UNIT SHALL AUTOMATICALLY DETECT A NEW FILTER AND RESET VISUAL FILTER MONITOR ACCORDINGLY. UNIT SHALL HAVE THE ABILITY TO TURN OFF REFRIGERATION SYSTEM AS NEEDED, IN ADDITION TO SELF DIAGNOSING SYSTEM ISSUES AND RELAY MESSAGES RELATED. SHALL INCLUDE INTEGRATED SILVER ION ANTI–MICROBIAL PROTECTION IN KEY AREAS. UNIT SHALL MEET ADA GUIDELINES. UNIT SHALL BE A LEAD–FREE DESIGN WHICH IS CERTIFIED TO NSF/ANSI 61 AND 372 AND MEETS FEDERAL AND STATE LOW–LEAD REQUIREMENTS. UNIT SHALL BE CERTIFIED TO UL399 AND CAN/CSA 22.2 NO. 120 & IS FCC COMPLIANT.
THE CHILLING CAPACITY SHALL PRODUCE 50 DEG. F. DRINKING WATER, BASED ON 80 DEG. F. INLET WATER AND 90 DEG. F. AMBIENT, UTILIZES HFC–134a REFRIGERANT CONTROLLED BY CALIBRATED CAPILLARY TUBING, CONTOURED SHOCK ABSORBING UPPER SHROUD AND ACCESSIBLE ONE PIECE LOWER SHROUD ALLOWING ACCESS TO INTERNAL COMPONENTS FROM THREE SIDES. MOTOR COMPRESSOR SHALL BE HERMETICALLY SEALED, RECIPROCATING TYPE, 115V, 60 Hz SINGLE PHASE, EQUIPPED WITH ELECTRIC CORD AND THREE PRONG MOLDED RUBBER PLUG. CAPACITY– 8.0 GPH OF 50 DEG F. @ 90 DEG. F. ROOM TEMPERATURE, 9.6 GPH. @ 70°F., AND 8.8 GPH. @ 80°F., 325 WATTS, & 3.7 FULL LOAD AMPS.

TRAP – 1 1/2" CHROME PLATED "P"–TRAP , TRAP NIPPLE AND ESCUTCHEON PLATE.

SUPPLY – CHROME PLATED 1/2" NIPPLES AND ESCUTCHEONS WITH 1/2" ANGLE

SUPPORT – FLOOR MOUNTED ELECTRIC WATER COOLER SUPPORTS UPRIGHTS SHALL BE HIGH STRENGTH STEEL WITH WELDED BASES SECURELY BOLTED TO FLOOR CONSTRUCTION. (2 REQD FOR BI–LEVEL COOLER) JR SMITH OR EQUAL MODEL No. 834–M31

ALL MODEL NUMBERS SHOWN ARE BASED ON INFORMATION GATHERED DURING DESIGN, AND ARE SUBJECT TO CHANGE BY MANUFACTURER. CONTRACTOR SHALL NOT RELY ON THE MODEL NUMBER ALONE BUT, SHALL RELY ON SPECIFICATIONS SHOWN ON SCHEDULES. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR REVISED MODEL NUMBERS. VERIFY ALL MODELS WITH ARCHITECT PRIOR TO PURCHASE OR INSTALLATION.

MOP MOP SINK

FIXTURE– TERRAZZO, SQUARE DROP FRONT MOP RECEPTOR, 12" HIGH AND 1–¾" WIDE SHOULDER, GALVANIZED BONDERIZED STEEL FLANGE WILL BE CAST INTEGRAL AND EXTEND AT LEAST 1" ABOVE SHOULDER ON TWO (2) SIDES, 3" DRAIN, STAINESS STEEL CAP TO BE CAST INTEGRAL ON DROP. SIDE DRAIN BODY SHALL BE BRASS CAST INTEGRAL AND PROVIDES FOR A NON–CAULKED CONNECTION NOT LESS THAN 1" DEEP TO A 3"PIPE. RECEPTOR SHALL BE MANUFACTURED OF TAN AND WHITE MARBLE CHIPS CAST IN WHITE PORTLAND CEMENT WITH A COMPRESSIVE STRENGTH OF 3000 PSI, TERRAZZO SURFACE SHALL BE GROUND AND POLISHED WITH ALL AIR HOLES AND OR PITS GROUTED AND THE EXCESS REMOVED AND SEALED TO RESIST STAINS AND MOISTURE. RECEPTOR SHALL BE REINFORCED WITH 16 GA. WIRE. OVERALL SIZE 24"Lx24"Wx12"H WITH FLANGE. FLORESTONE OR EQUAL MODEL 60LH–24"x24"–12"

STRAINER– DOME TYPE CHROME PLATED FLORESTONE OR EQUAL MODEL NO. MR–376

MOP HANGER– WALL MOUNTED WITH 3 CLAMPS FLORESTONE OR EQUAL MODEL NO. MR–372

HOSE– ⅝" HOSE FIVE FEET LONG WITH CLAMP FLORESTONE OR EQUAL MODEL NO. MR–370
SUPPLY 1/2" NPT SWEAT TYPE, CHROME PLATED WITH STOP VALVES.
FAUCET– ROUGH CHROME PLATED CAST BRASS, ¼ TURN CERAMIC CARTRIDGES, VANDAL–RESISTANT FOUR ARM HANDLES WITH COLOR CODED INDEXES. CAST BRASS NOZZLE WITH ¾" HOSE THREAD, PAIL HOOK AND TOP BRACE. BRASS VACUUM BREAKER, BRASS BOTTOM BRACE ASSEMBLY WITH ADJUSTABLE THREADED BRASS WALL FLANGE, & ½"NPTF INLETS. SPEAKMAN OR EQUAL MODEL NO SC–5811–RCP

EYE WASH STATION (AT APP BAY)

FIXTURE ULINE MODEL H–5795
TRAP – 1 1/4" CHROME PLATED "P" – TRAP, TRAP NIPPLE AND ESCUTCHEON PLATE.
SUPPLY – 1/2" NIPPLES AND ESCUTCHEONS WITH 3/8" ANGLE STOPS.

HS HANDSINK

FIXTURE– SINGLE COMPARTMENT 17"Lx16"Wx7–58"DEEP BOWL,COUNTERTOP 18 GAUGE TYPE 304 18–8 NICKEL BEARING STAINLESS STEEL, SELF RIMMING, COVED CORNERS 1–¾" VERTICAL AND HORIZONTAL RADIUS, BOWL AND FAUCET DECK RECESS ⅜" BELOW OUTSIDE EDGE OF SINK, FULLY COATED UNDERSIDE TO DAMPEN SOUND AND PREVENT CONDENSATE, AND FOUR (4) 1–½"ø FAUCET HOLES @ 4" CENTERS. ELKAY OR EQUAL "LUSTERTONE" MODEL No. 1716

SUPPLY 3/8" OD COMPRESSION TYPE FITTINGS WITH CHROME PLATED STOP VALVES.

TRAP 1–1/2" TAILPIECE & ESCUTCHEON CHROME PLATED

FAUCET ADA COMPLIANT, DUAL HANDLE MIXING FAUCET ON DECK MOUNTED ESCUTCHEON. METAL HANDLES, TUBULAR BRASS HI–ARC CONTEMPORARY STYLE SWING SPOUT WITH RESTRICTED FLOW AERATOR FINISHED IN CHROME PLATE. REMOVABLE DIACORE CARTRIDGES AND 150° TURN OF THE HANDLE CONTROLS FROM DRIP–FREE OFF TO FULL ON. RETRACTABLE SPRAY AND HOSE, WITH 4 FAUCET HOLES REQUIRED AND ½" IP CONNECTIONS. FLOW RATE 2.5 GPM MAX. @ 80 PSI. ELKAY OR EQUAL MODEL No. LK2443.

HANDLES CHROME PLATED WRIST BLADE TYPE "AMARILLIS SERIES" AMERICAN STANDARD OR EQUAL MODEL NO. 172H

POT FILL

DESCRIPTION: ADVANCE TABCO MODEL K–119 W/ 16" SWING NOZZLE.

SINK

FIXTURE– SINGLE COMPARTMENT 24"Lx18"Wx7–5/8"DEEP BOWL,COUNTERTOP 18 GAUGE TYPE 304 18–8 NICKEL BEARING STAINLESS STEEL, SELF RIMMING, COVED CORNERS 1–¾" VERTICAL AND HORIZONTAL RADIUS, BOWL AND FAUCET DECK RECESS ⅜" BELOW OUTSIDE EDGE OF SINK, FULLY COATED UNDERSIDE TO DAMPEN SOUND AND PREVENT CONDENSATE, AND FOUR (4) 1–½"ø FAUCET HOLES @ 4" CENTERS. ELKAY OR EQUAL "LUSTERTONE" MODEL No. 1716

SUPPLY 3/8" OD COMPRESSION TYPE FITTINGS WITH CHROME PLATED STOP VALVES.

TRAP 1–1/2" TAILPIECE & ESCUTCHEON CHROME PLATED

FAUCET ADA COMPLIANT, DUAL HANDLE MIXING FAUCET ON DECK MOUNTED ESCUTCHEON. METAL HANDLES, TUBULAR BRASS HI–ARC CONTEMPORARY STYLE SWING SPOUT WITH RESTRICTED FLOW AERATOR FINISHED IN CHROME PLATE. REMOVABLE DIACORE CARTRIDGES AND 150° TURN OF THE HANDLE CONTROLS FROM DRIP–FREE OFF TO FULL ON. RETRACTABLE SPRAY AND HOSE, WITH 4 FAUCET HOLES REQUIRED AND ½" IP CONNECTIONS. FLOW RATE 2.5 GPM MAX. @ 80 PSI. ELKAY OR EQUAL MODEL No. LK2443.

HANDLES CHROME PLATED WRIST BLADE TYPE "AMARILLIS SERIES" AMERICAN STANDARD OR EQUAL MODEL NO. 172H

4–BURNER RANGE W/ AIR FRY OVEN
MAKE / MODEL: GE / JS760SPSS

BUILT–IN WIFI, POWERED BY SMARTHQ APP – CONNECT, CONTROL AND MANAGE YOUR OVEN FROM ANYWHERE WITH YOUR SMARTPHONE OR TABLET (SELECT FEATURES REQUIRE WIFI CONNECTION) NO–PREHEAT AIR FRY –COOK HEALTHIER, CRISPIER VERSIONS OF YOUR FAVORITE FOODS IN LESS TIME, THANKS TO AN AIR FRYER RIGHT IN YOUR OVEN THAT DOESN'T REQUIRE PREHEATING, A BASKET, OR A SPECIAL TRAY
12–IN/9–IN DUAL ELEMENT – TWO HEATING ELEMENTS IN ONE OFFER FLEXIBILITY CONVECTION – 9–IN/6–IN POWERBOIL ELEMENT – PRODUCES RAPID, POWERFUL HEAT
FIFTH ELEMENT WARMING ZONE – PROVIDES LOW–HEAT CAPABILITY FOR FOODS
SELF–CLEAN WITH STEAM CLEAN OPTION – CLEAN YOUR OVEN THE WAY YOU WANT

SPECIALTY SCHEDULE

CO – 1 FLOOR CLEANOUT

DESCRIPTION: ROUND DECK PLUG, 4–¾"ø FOR A 3" PIPE SIZE & 6"ø FOR A 4" PIPE SIZE ALL NICKEL BRONZE CONSTRUCTION WITH A POLISHED SCORIATED WATER TIGHT COVER WHICH REQUIRES A SPANNER WRENCH FOR REMOVAL . JR SMITH OR EQUAL FIGURE No. 4890C

CO – 2 WALL CLEANOUT

DESCRIPTION: DUCO CAST IRON SPIGOT FERRULE WITH CAST BRONZE TAPER THREADED PLUG. CHROME PLATED BRONZE ROUND FRAME AND SECURED FACE OF WALL COVER. JR SMITH OR EQUAL MODEL NO. 4436C

FN – 1 FUNNEL DRAIN

DESCRIPTION 7" DIA. INDIRECT WASTE FUNNEL DRAIN, DUCO CAST IRON WITH ACID RESISTANT COATED INTERIOR, ALUMINUM DOME BOTTOM STRAINER, CAULKED 3" PIPE SIZE OUTLET. JR SMITH OR EQUAL MODEL NO. 3811C–DBS.

TRENCH DRAIN

DESCRIPTION 118.14"L x 12.19"W, POWDER COATED WELDED STEEL FRAME SUPPORT SYSTEM WITH CONCRETE ANCHORS, GALVANIZED STEEL FRAME, CAST IRON SLOTTED GRATE. JR. SMITH OR EQUAL MODEL NO. 9960–LC

RD & EM RD ROOF DRAIN

DESCRIPTION GALVANIZED CAST IRON BODY WITH ADJUSTABLE EXTENSION SLEEVE, REVERSIBLE COLLAR, COMBINED FLASHING CLAMP AND GRAVEL STOP, UNDERDECK CLAMP, AND LOW PROFILE POLYETHYLENE DOME. JR SMITH OR EQUAL FIGURE No. 1015C–C–G

AG–1 AIR GAP FITTING

DESCRIPTION AIRGAP FITTING TO PROVIDE UNOBSTRUCTED SEPARATION BETWEEN THE BACKFLOW PREVENTOR RELIEF VALVE PORT, THE POTABLE WATER SUPPLY & THE DRAINAGE SYSTEM, CONSTRUCTED OF EPOXY COATED CAT IRON WITH A NPT OUTLET. WATTS OR EQUAL MODEL No. 909AGK

AG–2 AIR GAP FITTING INDIRECT WASTE OUTLETS

DESCRIPTION DUCO CAST IRON WITH THREADED OUTLET ONLY, FOR INDIRECT WASTE OUTLETS FROM FIXTURES, FOR PIPE SIZE SEE CONTRACT DRAWINGS. JR SMITH OR EQUAL FIGURE No. 3951T

FAI– 1 FRESH AIR INLET

DESCRIPTION PROTECTIVE COVER FOR FRESH AIR INLET PIPING AT EXTERIOR WALL POLISHED BRONZE WITH PIPE CLAMP VANDAL PROOF SCREWS. JR SMITH OR EQUAL FIGURE NO. 9005

TCV–1 HOT WATER MIXING VALVE

DESCRIPTION: CORROSION RESISTANT WITH A REPLACEABLE THERMOSTATIC SHUTTLE, A PRE–LOADED SPRING ASSEMBLY WHICH SHALL ACT AS AN OVER–TRAVEL MECHANISM. VALVE BODY CAST BRONZE, BRASS RETAINER AND ADJUSTING SCREW, SHUTTLE SHALL BE NORYL, THERMAL ELEMENT SHALL BE BRONZE/STAINLESS STEEL, "O" RINGS BUNA–N, AND STAINLESS STEEL RETURN AND OVER–TRAVEL SPRING. MAXIMUM WORKING PRESSURE 150 PSIG, OPERATING TEMPERATURE RANGE 33°F–180°F. THE HOT WATER INLET TEMPERATURE SHALL BE BETWEEN 120°F AND 180°F. THE COLD WATER INLET TEMPERATURE SHALL BE BETWEEN 41°F AND 70°F. THE MIXED WATER TEMPERATURE SHALL BE 120°F. APOLLO MODEL NO. MVCLF (34CLF SERIES).

FD–1 FLOOR DRAIN

DESCRIPTION DUCO CAST IRON BODY, WITH FLASHING COLLAR AND 6" DIAMETER GRATE ADJUSTABLE STRAINER HEAD, CAULKED OUTLET ROUND TOP AND DEEP SEAL TRAP WITH REMOVABLE SEDIMENT BUCKET. MANUFACTURED BY JAY R. SMITH OR EQUAL FIGURE NO. 2010–C–A.

WHA – 1 WATER HAMMER ARRESTOR

DESCRIPTION: ALL STAINLESS STEEL SHOCK ABSORBERS, HEAVY DUTY BALANCED EXPANSION BELLOWS, NON–TOXIC HYDRAULIC MINERAL OIL, AND THREADED NPT ENDS. CONTRACTOR SHALL INSTALL SHOCK ABSORBERS AT ALL SOLENOID, REMOTE OPERATED, QUICK CLOSING VALVES, AND INCLUDING ALL LOCATIONS SHOWN ON CONTRACT DRAWINGS. THE P.D.I. FIXTURE UNIT RATINGS SHALL BE RATINGS SHALL BE THE FOLLOWING: A=1–11 F.U.–¾", B=12–32 F.U.–1", C=33–60 F.U.–1", D=61–113 F.U.–1", E=114–154 F.U.–1", & F=155–330 F.U.–1". JR. SMITH OR EQUAL SERIES 5000

NC–1 NEUTRALIZATION KIT

DESCRIPTION: THE CONDENSATE NEUTRALIZATION CAPSULE SHALL BE AXIOM INDUSTRIES LTD. MODEL NC–1. SYSTEM SHALL INCLUDE 1 LITRE (0.26 U.S. GALLON) TRANSPARENT CAPSULE MADE FROM CORROSION RESISTANT MATERIALS WITH TWO 3" FILL/ACCESS OPENINGS, 3"INLET AND OUTLET SCREEN, ¾"–14NPT THREADED INLET, ¾"–14NPT THREADED OUTLET, TWO ¾"MNPT X ¾"FNPT UNIONS, THREE ¾"NPT TO ½"HOSE BARB FITTINGS, ½" BARBED Y FITTING, SIX HOSE CLAMPS, 10 FT OF ½" ID VINYL TUBING, TWO BASE/WALL MOUNTING CLAMPS.

WH–3,4 WATER HEATER – ELECTRIC POINT OF USE

DESCRIPTION: UNIT SHALL HAVE COPPER CLAD IMMERSION HEATING ELEMENT(S) WITH BRASS TERMINATIONS FOR INCREASED DURABILITY. EXTERNAL TEMPERATURE CONTROL AND DISPLAY ADJUSTABLE IN 1° INCREMENTS WITH A RANGE OF 80°–140°F. DISPLAY SHALL BE CAPABLE OF DISPLAYING SETPOINT TEMPERATURE IN CELSIUS OR FAHRENHEIT TEMPERATURE SCALES. UNIT SHALL UTILIZE A FLOW METER WITH A 0.3 GPM ACTIVATION POINT AND MANAGE POWER BASED ON ACTUAL FLOW RATE AND INLET TEMPERATURE. VALUES SHOULD BE PROCESSED 60 TIMES PER SECOND. UNIT SHALL BE WQA CERTIFIED LEAD FREE, CERTIFIED TO UL499 AND CSA C22.2 NO.64.
RHEEM MODEL RTEX–08, 0.5 GPM, 208V/1PH/33A

WH–1,2 WATER HEATER – GAS FIRED, TANKLESS

DESCRIPTION: CONDENSING, TANKLESS, BUILT–IN RECIRCULATION, 199,000 BTU/H INPUT, 5.4 GPM @ 70°F TEMPERATURE RISE, 28.7"H x 17.3"W x 14.8" D. RHEEM MODEL RTGH–CM95DVL.

EXPTK– 1 DOMESTIC HOT WATER EXPANSION TANK

DESCRIPTION: THE PRESSURIZATION SYSTEM SHALL INCLUDE AN THERM–X–TROL®.DIAPHRAGM OR BLADDER TYPE EXPANSION TANK WHICH WILL ACCOMMODATE THE EXPANDED WATER OF THE SYSTEM GENERATED WITHIN THE NORMAL OPERATING TEMPERATURE RANGE, LIMITING THIS PRESSURE INCREASE AT THOSE COMPONENTS IN THE SYSTEM TO THE MAXIMUM ALLOWABLE PRESSURE AT THOSE COMPONENTS. IT SHALL MAINTAIN MINIMUM OPERATING PRESSURE. FURNISH AND INSTALL AS SHOWN ON PLANS A 2.1 GALLON, 10IN. DIAMETER X 10⅜ IN. (HIGH) AMTROL.MODEL ST–5–C. THE EXPANSION TANK SHALL BE WELDED STEEL, CONSTRUCTED, TESTED AND STAMPED IN ACCORDANCEWITH SECTION VIII, DIVISION 1 OF THE ASME CODE FOR A WORKING PRESSURE OF 150 PSIG, FACTORY AIR PRE–CHARGED AND FIELD ADJUSTABLE. ALL WELDS CONFORMING TO ASME SECTION IX. ALL INTERNAL PARTS MUST COMPLY WITH FDA REGULATIONS AND APPROVALS. THE TANK SHALL BE SUPPORTED BY STEEL LEGS OR A BASE (INTEGRAL RING MOUNT) FOR A VERTICAL INSTALLATION. EACH TANK SHALL HAVE A STEEL SHELL AND AN INTERNAL BUTYL/EPDM DIAPHRAGM OR BUTYL BLADDER WITH CODE APPROVALS NSF/ANSI 61 USED TO ISOLATE THE AIR CHARGE FROM FLUID.THE MANUFACTURER SHALL BE AMTROL INC. THE MANUFACTURER SHALL HAVE AT LEAST FIVE YEARS EXPERIENCE IN THE FABRICATION OF BLADDER / DIAPHRAGM–TYPE ASME EXPANSION TANKS.

P–1 HOT WATER CIRCULATING PUMP

DESCRIPTION: HIGH CAPACITY OUTPUT, COMPOSITE HOUSING, MAXIMUM FLUID TEMPERATURE 220 DEG. F, AND MAXIMUM PRESSURE 203 PSI. 120 VOLTS, 60 Hz, SINGLE PHASE, 0.54 AMPS, 1440–3720 RPM. TACO OR EQUAL MODEL No 006e3LC

RPZ–1 – REDUCED PRESSURE ZONE ASSEMBLY

DESCRIPTION: THE ASSEMBLY SHALL CONSIST OF AN INTERNAL PRESSURE DIFFERENTIAL RELIEF VALVE LOCATED IN A ZONE BETWEEN TWO POSITIVE SEATING CHECK MODULES WITH CAPTURED SPRINGS AND SILICONE SEAT DISCS. SEATS AND SEAT DISCS SHALL BE REPLACEABLE IN BOTH CHECK MODULES AND THE RELIEF VALVE. THERE SHALL BE NO THREADS OR SCREWS IN THE WATERWAY EXPOSED TO LINE FLUIDS. SERVICE OF ALL INTERNAL COMPONENTS SHALL BE THROUGH A SINGLE ACCESS COVER SECURED WITH STAINLESS STEEL BOLTS. BODY AND SHUTOFFS SHALL BE CONSTRUCTED USING LEAD FREE* CAST COPPER SILICON ALLOY MATERIALS. LEAD FREE* REDUCED PRESSURE ZONE ASSEMBLY SHALL COMPLY WITH STATE CODES AND STANDARDS, WHERE APPLICABLE, REQUIRING REDUCED LEAD CONTENT.
THE ASSEMBLY SHALL ALSO INCLUDE TWO RESILIENT SEATED ISOLATION VALVES,
FOUR RESILIENT SEATED TEST COCKS AND AN AIR GAP DRAIN FITTING. THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF: USC; ASSE STD. 1013; AWWA STD. C511; CSA B64.4.
SHALL BE A WATTS SERIES LF009 – 1"

FPWH FROST PROOF WALL HYDRANT

DESCRIPTION: KEY OPERATED FROST PROOF, BRONZE NICKEL PLATED, QUARTER TURN NON–FREEZE HYDRANT WITH HOSE CONNECTION, VACUUM BREAKER, ¾" NPT INLET, "T" HANDLE KEY, & STAINLESS STEEL BOX WITH FULL 180° COVER OPENING. JR. SMITH OR EQUAL FIGURE No. 5509QT

HB –1 DOMESTIC WATER HOSE BIBB

DESCRIPTION: 3/4" MALE NPT, HEX SHOULDER TEE HANDLE, WITH SEPARATE NON REMOVABLE VACUUM BREAKER, IP INLET HOSE END, CAST BRASS. WATTS OR EQUAL MODEL NO. SC–6. HOSE CONNECTION VACUUM BREAKER WATTS OR EQUAL MODEL NO 8B.

SPOS–1 ELEVATOR SUMP PUMP

DESCRIPTION: 1/3 HP, 115V, SINGLE–PHASE, 5.2 FULL LOAD AMPS, THERMAL OVERLOAD TEMP 221°F, 1½" DISCHARGE. 10' STANDARD CORD LENGTH – UP TO 50'. 9.5"W x 6.5"L OIL DETECTOR WITH CONTROL PANEL & REMOTE ALARM LIBERTY PUMP, MODEL "ELV250 SERIES WITH OILTECTOR"

RD – 1 ROOF DRAIN & SECONDARY DRAIN

DESCRIPTION DURA COAT CAST IRON DEEP SUMP BODY WITH COMBINATION MEMBRANE FLASHING CLAMP AND GRAVEL STOP, DOUBLE TOP SET DECK PLATE, AND LOW PROFILE CAST IRON DOME. ZURN FIGURE No. Z164

SCUPPER

DESCRIPTION DOWNSPOUT NOZZLE FLANGED OUTLET, ZURN MODEL# Z199

DATE: ISSUE

SEAL:

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215 ROANOKE AVENUE
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TAPPAN FIRE DISTRICT
123 WASHINGTON STREET
TAPPAN NY, 10983

PLUMBING
FIXTURE & SPECIALTY SCHEDULES

PROJECT #: 21–08

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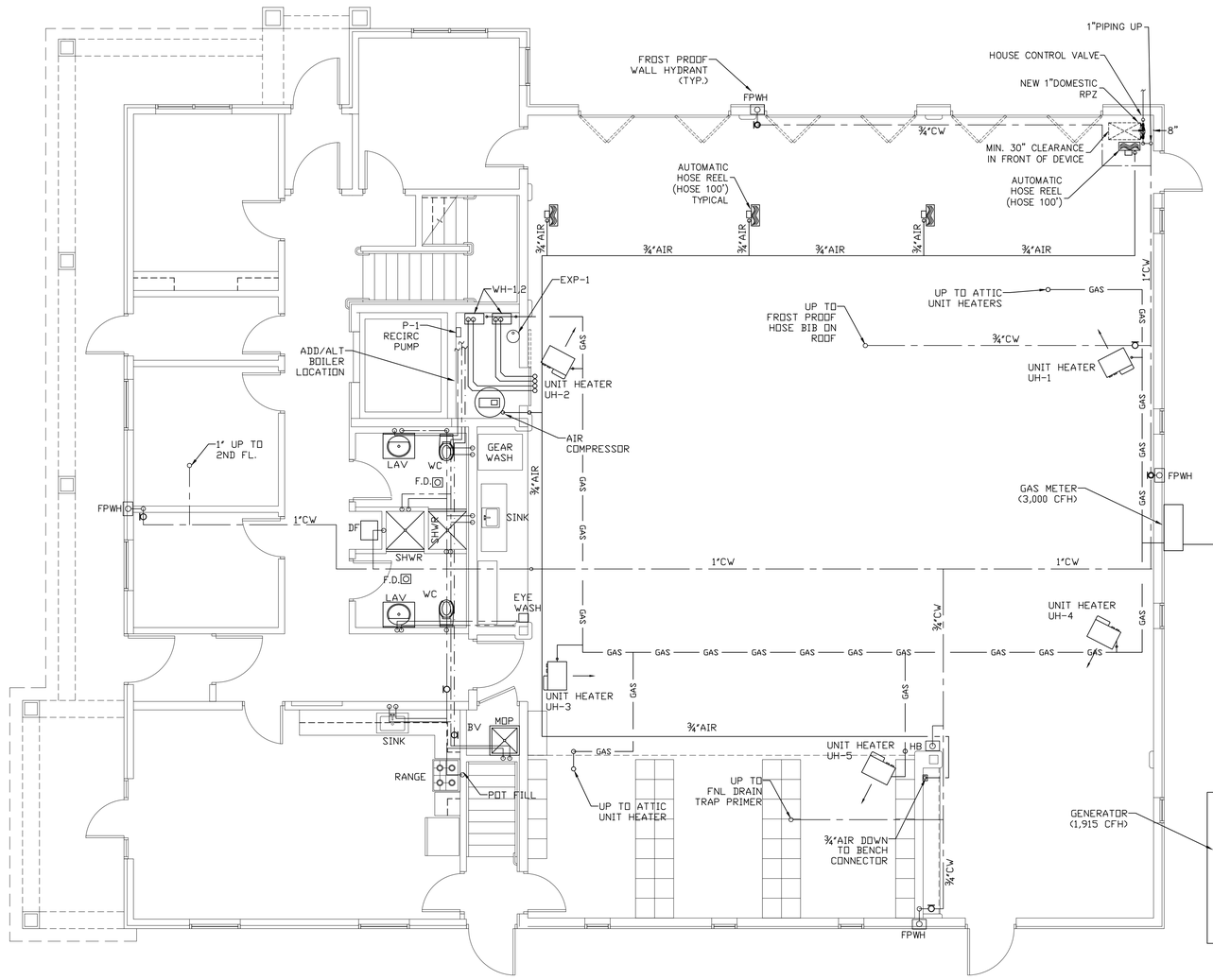
CAD FILE: 21–08/P: /BID

DRAWING#:

P–2



SYMBOL LEGEND

——— ———	COLD WATER LINE		GAS VALVE & SEDIMENT TRAP
— — — —	HOT WATER LINE (120°)		THERMOMETER
GAS	NATURAL GAS PIPING	HB	HOSE BIB
	ISOLATION VALVE	FPWH	FROST PROOF WALL HYDRANT
WHA-1	WATER HAMMER ARRESTOR	BV	BALANCING VALVE

PLAN NOTES:
1. FLEXIBLE WATER CONNECTORS EXPOSED TO CONTINUOUS PRESSURE SHALL CONFORM TO ASME A112.18.6/CSA B125.6. ACCESS SHALL BE PROVIDED TO ALL FLEXIBLE CONNECTORS.
2. PROVIDE VALVED DRAINS FOR ANY TRAPPED DOMESTIC WATER MAIN PIPING.
3. INSULATE ALL DOMESTIC HOT AND COLD WATER PIPING IN ACCORDANCE WITH TABLE C403.11.3 OF THE NYSECCC
4. PROVIDE BRANCH ISOLATION VALVES AT MAINS.
5. PRIOR TO ACCEPTANCE AND INITIAL OPERATION, PIPING SHALL BE VISUALLY INSPECTED AND PRESSURE TESTED IN ACCORDANCE WITH SECTION 406 OF THE NYSFGC.
6. SEE RISER DIAGRAMS FOR PIPE SIZING NOT SHOWN ON PLAN.
7. ALL GAS PIPING AND HOT/COLD WATER SUPPLY PIPING IS TO BE RUN WITHIN CEILING SPACE OR CONCEALED. DROPS TO EACH FIXTURE SHALL BE WITHIN WALLS OR OTHER LOCATION SO AS TO REMAIN CONCEALED.
8. WATER FLOW RATES SHALL BE MEASURED AND ADJUSTED TO DELIVER FINAL FLOW RATES WITHIN THE TOLERANCES PROVIDED IN THE PRODUCT SPECIFICATIONS.
9. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION 308 OF THE NYSPC
10. ALL FIXTURE WATER SUPPLY PIPES SHALL MEET THE MINIMUM SIZE REQUIREMENTS OF TABLE 604.5 OF THE NYSPC.
11. ALL GAS PIPING TO BE SCHEDULE 40 METALLIC PIPE.
12. THE FLOW VELOCITY OF THE WATER DISTRIBUTION SYSTEM SHALL BE CONTROLLED TO REDUCE THE POSSIBILITY OF WATER HAMMER. A WATER-HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER-HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WATER-HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
13. PIPE AND PIPE FITTINGS, INCLUDING VALVES AND FAUCETS, UTILIZED IN THE WATER SUPPLY SYSTEM SHALL HAVE NOT MORE THAN 8-PERCENT LEAD CONTENT.
14. PIPE, PIPE FITTINGS, JOINTS, VALVES, FAUCETS AND FIXTURE FITTINGS UTILIZED TO SUPPLY WATER FOR DRINKING OR COOKING PURPOSES SHALL COMPLY WITH NSF 372 AND SHALL HAVE A WEIGHTED AVERAGE LEAD CONTENT OF 0.25 PERCENT OR LESS.
15. WATER DISTRIBUTION PIPE SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.4. HOT WATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A PRESSURE RATING OF NOT LESS THAN 100 PSI AT 180°F.
16. PIPE FITTINGS SHALL BE APPROVED FOR INSTALLATION WITH THE PIPING MATERIAL INSTALLED AND SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN TABLE 605.5. PIPE FITTINGS UTILIZED IN WATER SUPPLY SYSTEMS SHALL ALSO COMPLY WITH NSF 61. DUCTILE AND GRAY IRON PIPE AND PIPE FITTINGS UTILIZED IN WATER SERVICE PIPING SYSTEMS SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104.
17. VALVES SHALL BE COMPATIBLE WITH THE TYPE OF PIPING MATERIAL INSTALLED IN THE SYSTEM. VALVES SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.7 OR SHALL BE APPROVED. VALVES INTENDED TO SUPPLY DRINKING WATER SHALL MEET THE REQUIREMENTS OF NSF 61.
18. MANUFACTURED PIPE NIPPLES SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.8 OF THE NYSPC.
19. THE FOLLOWING TYPES OF JOINTS ARE PROHIBITED: CEMENT OR CONCRETE JOINTS, JOINTS MADE WITH FITTINGS NOT APPROVED FOR THE SPECIFIC INSTALLATION, SOLVENT-CEMENT JOINTS BETWEEN DIFFERENT TYPES OF PLASTIC PIPE, AND SADDLE-TYPE FITTINGS.
20. SHUTOFF VALVES SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE, ON THE WATER SUPPLY PIPE TO EACH SILLCOCK, ON THE WATER SUPPLY PIPE TO EACH APPLIANCE OR MECHANICAL EQUIPMENT.
21. FIXTURE FITTINGS, FAUCETS AND DIVERTERS SHALL BE INSTALLED AND ADJUSTED SO THAT THE FLOW OF HOT WATER FROM THE FITTINGS CORRESPONDS TO THE LEFT-HAND SIDE OF THE FIXTURE FITTING.
22. ACCESS SHALL BE PROVIDED TO ALL FULLOPEN VALVES AND SHUTOFF VALVES.
23. TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO A MAXIMUM OF 110°F (43°C).
24. THE DOMESTIC WATER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH SECTION 312 OF THE NYSPC.
25. ALL FLOOR DRAINS SHALL HAVE TRAP PRIMERS INSTALLED. TRAP PRIMER SHALL BE LOCATED WITHIN AN ACCESSIBLE AREA FOR SERVICING.
26. INSTALL WALL HUNG WATER HEATERS, WATER HEATER CONTROLS AND ALL PIPING CONNECTIONS. ELECTRICIAN TO PROVIDE LINE VOLTAGE POWER ONLY.
27. PROVIDE VENTING TO ROOF TERMINATIONS PER MANUFACTURERS REQUIREMENTS.

FIRST FLOOR DOMESTIC WATER & GAS PLAN

SCALE: 3/16" = 1'-0"

DATE: ISSUE

SEAL:

SENDLEWSKI ARCHITECTS PC
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FIRST FLOOR
DOMESTIC WATER & GAS PLAN

PROJECT #: 21-08

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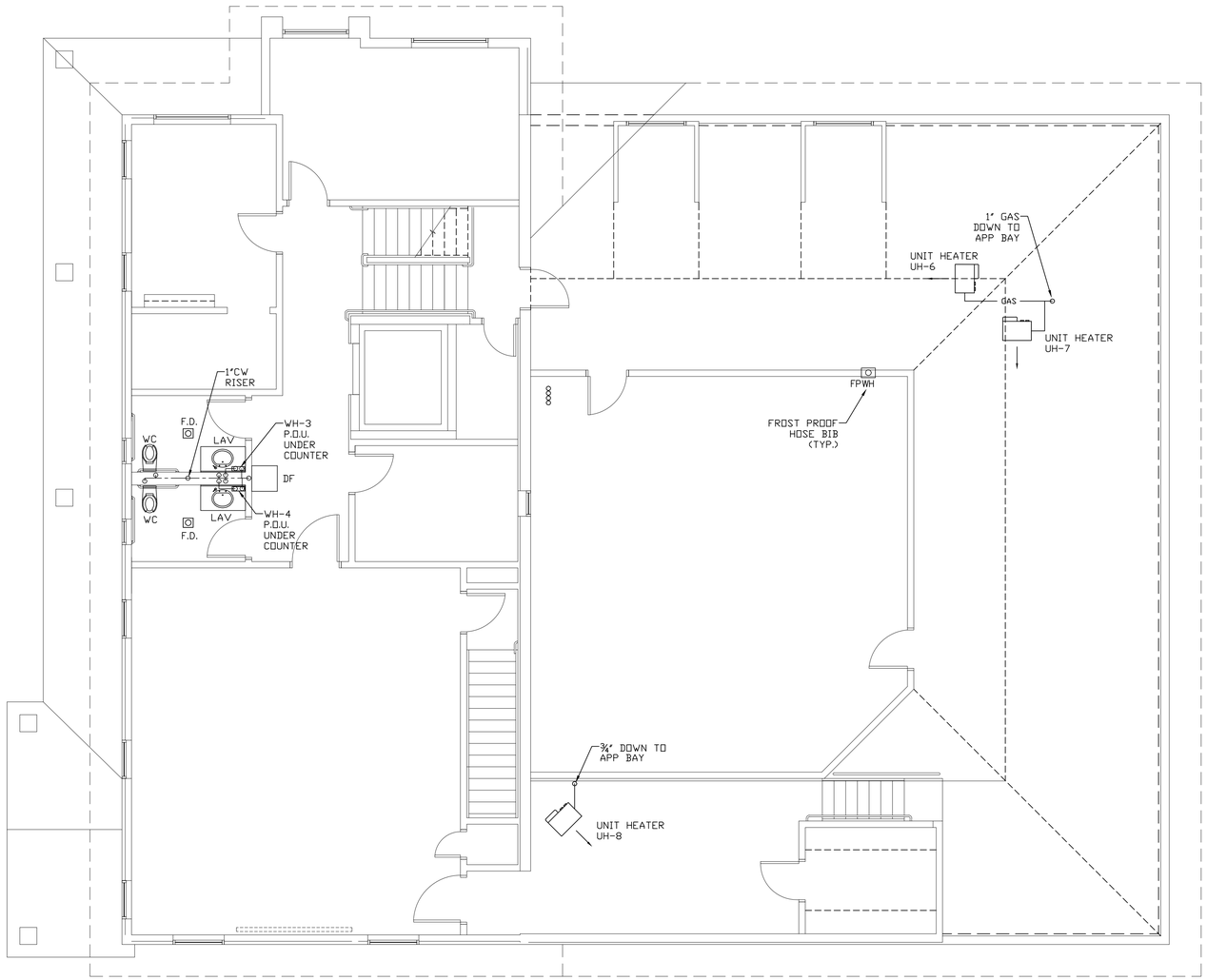
P-3



SYMBOL LEGEND

———	COLD WATER LINE		GAS VALVE & SEDIMENT TRAP
– – –	HOT WATER LINE (120°)		THERMOMETER
GAS	NATURAL GAS PIPING	HB	HOSE BIB
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24. THE DOMESTIC WATER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH SECTION 312 OF THE NYSPC.

SECOND FLOOR DOMESTIC WATER & GAS PLAN

SCALE: 3/16" = 1'-0"

DATE: ISSUE

SEAL:

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TAPPAN FIRE DISTRICT
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TAPPAN NY, 10983

SECOND FLOOR
DOMESTIC WATER & GAS PLAN

PROJECT #: 21-08

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CAD FILE: 21-08/P: /BID

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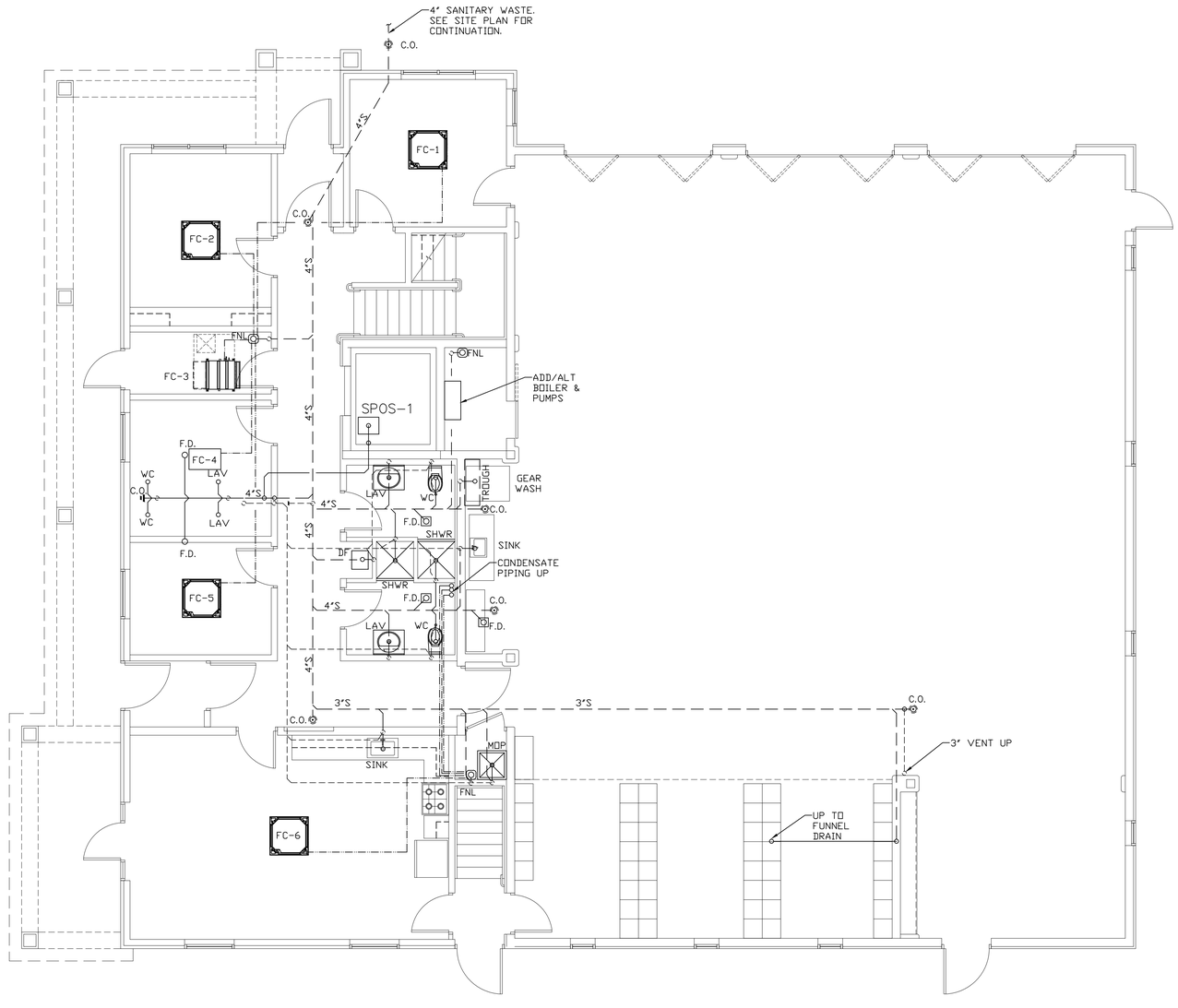
P-4



SYMBOL LEGEND

—— 4"S ——		SANITARY PIPING
— — 4"S — —		SANITARY PIPING BELOW GRADE
- - - - - - - -		SANITARY VENT PIPING
—— 4"ST ——		STORM PIPING
-·-·-·-·-·-		CONDENSATE PIPING
CO	C.O.	CLEAN OUT ABOVE GROUND
CO	C.O.	CLEAN OUT W/DECK PLATE
	W.C.O.	WALL CLEAN OUT
FD	F.D.	FLOOR DRAIN
FNL	FNL	FUNNEL DRAIN
	R.D.	ROOF DRAIN

PLAN NOTES:
1. CLEANOUTS SHALL BE PROVIDED AND SIZED ACCORDING TO SECTION 708 OD THE NYSPC.
2. FIXTURE VENTING CONNECTIONS SHALL BE AS PER SECTION 905 OF THE NYSPC.
3. PROVIDE A SLEEVE FOR PIPING PROTECTION. TYPICAL OF ALL PIPE PENETRATIONS THROUGH THE FOUNDATION WALL. SEE DETAILS FOR SPECIFIC APPLICATIONS.
4. ALL BURIED PIPING SHALL BE SUPPORTED THROUGHOUT ITS ENTIRE LENGTH.
5. ALL ABOVE-GROUND SANITARY DRAINS AND VENT PIPES SHALL CONFORM TO THE MATERIALS IN SECTION 702.1 OF THE NYSPC. VENT PIPING MATERIAL SHALL ALSO COMPLY WITH SECTION 902 OF THE NYSPC.
6. CONNECT ALL EQUIPMENT AND FIXTURES AS PER THE MANUFACTURER'S REQUIREMENTS AND STATE PLUMBING CODES.
7. SEE RISER DIAGRAM FOR PIPE SIZING NOT SHOWN ON PLAN.
8. THE SANITARY DRAINAGE SYSTEM IS TO BE TESTED AS PER SECTION 701.6 OF THE NYSPC.
9. PROVIDE NEUTRALIZATION KITS FOR ALL GAS-FIRED EQUIPMENT CONDENSATE DISPOSAL.
10. ALL CONDENSATE PIPING SHALL BE FULLY INSULATED.
11. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION 308 OF THE NYSPC.
12. AIR GAPS SHALL BE IN ACCORDANCE WITH SECTION 802.2.1 OF THE NYSPC.
13. ALL FLOOR DRAINS AND FUNNEL DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS.
14. ALL BELOW-GRADE SANITARY DRAINS AND VENT PIPES SHALL CONFORM TO THE MATERIALS IN SECTION 702.2 OF THE NYSPC. VENT PIPING MATERIAL SHALL ALSO COMPLY WITH SECTION 902 OF THE NYSPC.
15. EXCAVATED TRENCHES SHALL BE PROVIDED WITH CONTINUOUS LOAD-BEARING SUPPORT BETWEEN JOINTS.
16. IF TRENCH BOTTOMS DO NOT FORM THE BED FOR THE PIPE, TRENCHES SHALL BE BACKFILLED TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE WITH SAND OR FINE GRAVEL PLACED IN LAYERS NOT GREATER THAN 6 INCHES IN DEPTH AND SUCH BACKFILL SHALL BE COMPACTED AFTER EACH PLACEMENT.
17. IF ROCK IS ENCOUNTERED WHILE TRENCHING, THE ROCKS SHALL BE REMOVED TO NOT LESS THAN 3 INCHES BELOW THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE, AND SHE TRENCH SHALL BE BACKFILLED TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE WITH SAND TAMPED IN PLACE. THE PIPE, INCLUDING THE JOINTS, SHALL NOT REST ON ROCK.
18. IF SOFT MATERIALS OF POOR LOAD BEARING QUALITY ARE FOUND AT THE BOTTOM OF THE TRENCH, STABILIZATION SHALL BE ACHIEVED BY OVEREXCAVATING NOT LESS THAN TWO PIPE DIAMETERS AND BACKFILLING TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE.
19. IN OR ON STRUCTURES WHERE OPENINGS HAVE BEEN MADE IN WALLS, FLOORS OR CEILINGS FOR THE PASSAGE OF PIPES, THE ANNULAR SPACE BETWEEN THE PIPE AND THE SIDES OF THE OPENING SHALL BE SEALED WITH CAULKING MATERIALS OR CLOSED WITH GASKETING SYSTEMS COMPATIBLE WITH THE PIPING MATERIALS AND LOCATIONS.
20. ALL UNDER SLAB ROUGHING TO BE SUPPORTED BY THE STRUCTURAL SLABS. SLABS SHALL BE 10" THICK ON THE OCCUPIED SIDE, 12" THICK ON THE APPARATUS SIDE. COORDINATE WITH G.C.

FIRST FLOOR SANITARY PLAN

SCALE: 3/16" = 1'-0"

DATE: ISSUE

SEAL:

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TAPPAN FIRE DISTRICT
123 WASHINGTON STREET
TAPPAN NY, 10983

FIRST FLOOR SANITARY PLAN

PROJECT #: 21-08

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CAD FILE: 21-08/P: /BID

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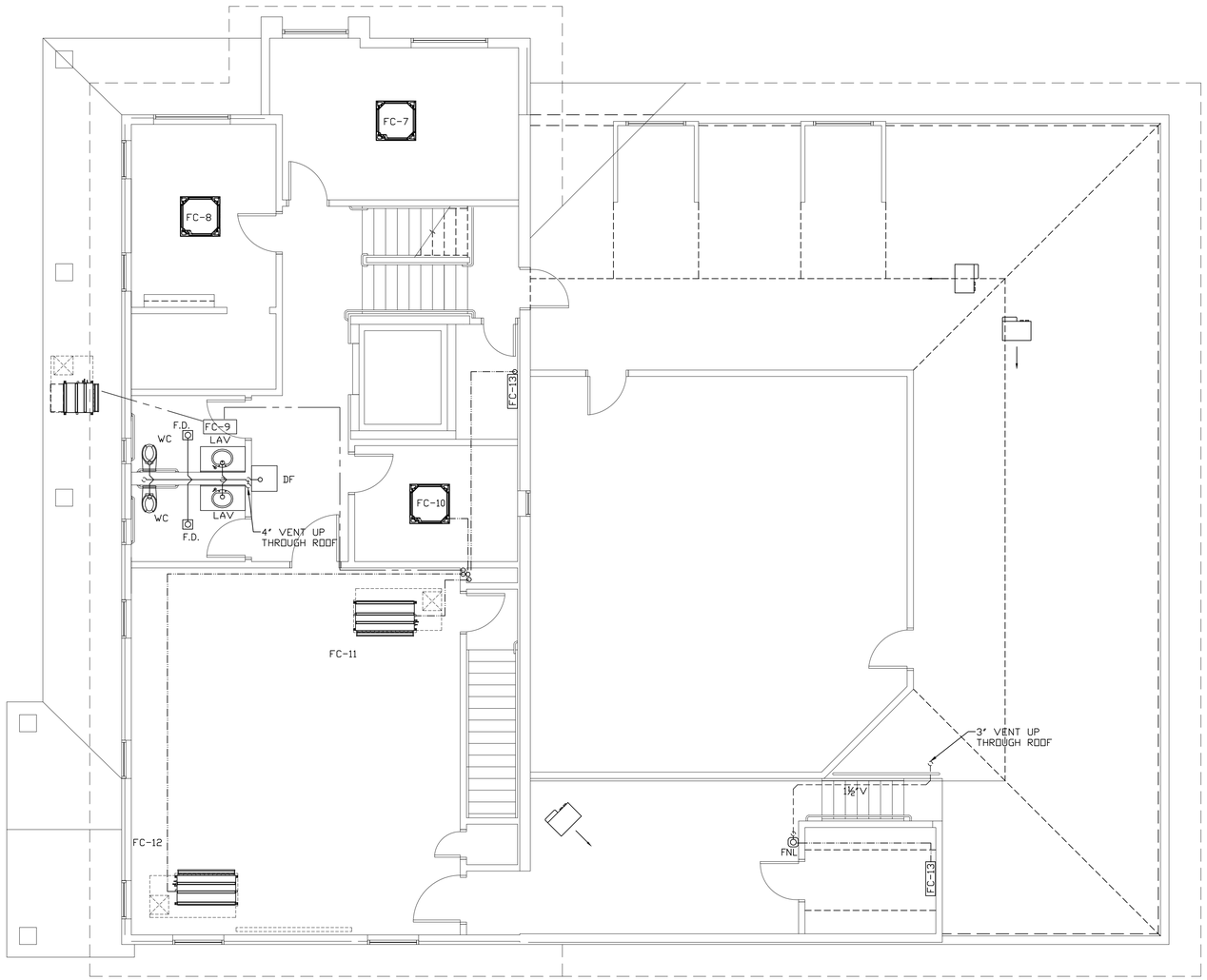
P-5



SYMBOL LEGEND

—— 4"S ——		SANITARY PIPING
— — 4"S — —		SANITARY PIPING BELOW GRADE
- - - - - - - -		SANITARY VENT PIPING
—— 4"ST ——		STORM PIPING
————		CONDENSATE PIPING
	C.O.	CLEAN OUT ABOVE GROUND
	C.O.	CLEAN OUT W/DECK PLATE
	W.C.O.	WALL CLEAN OUT
FD	F.D.	FLOOR DRAIN
FNL	FNL	FUNNEL DRAIN
	R.D.	ROOF DRAIN

PLAN NOTES:
1. CLEANOUTS SHALL BE PROVIDED AND SIZED ACCORDING TO SECTION 708 OD THE NYSPC.
2. FIXTURE VENTING CONNECTIONS SHALL BE AS PER SECTION 905 OF THE NYSPC.
3. PROVIDE A SLEEVE FOR PIPING PROTECTION, TYPICAL OF ALL PIPE PENETRATIONS THROUGH THE FOUNDATION WALL. SEE DETAILS FOR SPECIFIC APPLICATIONS.
4. ALL BURIED PIPING SHALL BE SUPPORTED THROUGHOUT ITS ENTIRE LENGTH.
5. ALL ABOVE-GROUND SANITARY DRAINS AND VENT PIPES SHALL CONFORM TO THE MATERIALS IN SECTION 702.1 OF THE NYSPC. VENT PIPING MATERIAL SHALL ALSO COMPLY WITH SECTION 902 OF THE NYSPC.
6. CONNECT ALL EQUIPMENT AND FIXTURES AS PER THE MANUFACTURER'S REQUIREMENTS AND STATE PLUMBING CODES.
7. SEE RISER DIAGRAM FOR PIPE SIZING NOT SHOWN ON PLAN.
8. THE SANITARY DRAINAGE SYSTEM IS TO BE TESTED AS PER SECTION 701.6 OF THE NYSPC.
9. PROVIDE NEUTRALIZATION KITS FOR ALL GAS-FIRED EQUIPMENT CONDENSATE DISPOSAL.
10. ALL CONDENSATE PIPING SHALL BE FULLY INSULATED.
11. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION 308 OF THE NYSPC.
12. AIR GAPS SHALL BE IN ACCORDANCE WITH SECTION 802.2.1 OF THE NYSPC.
13. ALL FLOOR DRAINS AND FUNNEL DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS.
14. ALL BELOW-GRADE SANITARY DRAINS AND VENT PIPES SHALL CONFORM TO THE MATERIALS IN SECTION 702.2 OF THE NYSPC. VENT PIPING MATERIAL SHALL ALSO COMPLY WITH SECTION 902 OF THE NYSPC.
15. EXCAVATED TRENCHES SHALL BE PROVIDED WITH CONTINUOUS LOAD-BEARING SUPPORT BETWEEN JOINTS.
16. IF TRENCH BOTTOMS DO NOT FORM THE BED FOR THE PIPE, TRENCHES SHALL BE BACKFILLED TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE WITH SAND OR FINE GRAVEL PLACED IN LAYERS NOT GREATER THAN 6 INCHES IN DEPTH AND SUCH BACKFILL SHALL BE COMPACTED AFTER EACH PLACEMENT.
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SECOND FLOOR SANITARY PLAN

SCALE: 3/16" = 1'-0"

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SECOND FLOOR
SANITARY PLAN

PROJECT #: 21-08

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CAD FILE: 21-08/P: /BID

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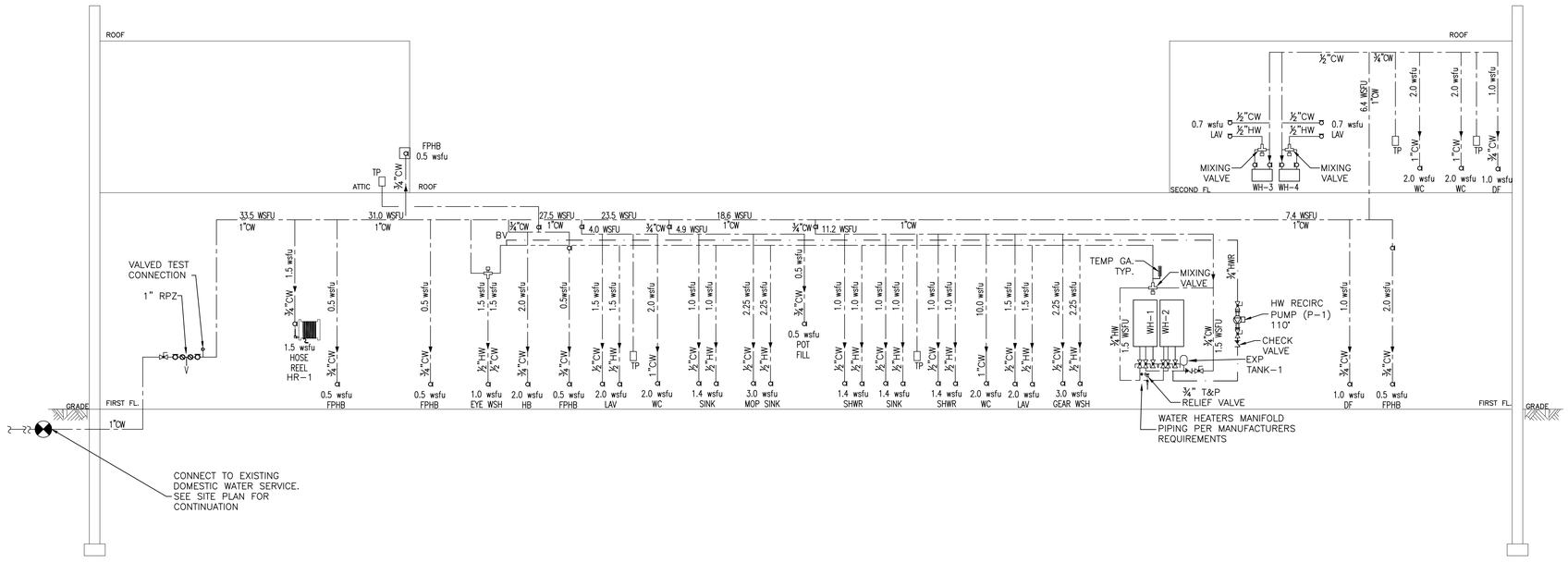
P-6



SYMBOL LEGEND

———	COLD WATER LINE		THERMOMETER
———	HOT WATER LINE (120°)	BV	BALANCING VALVE
———	HOT WATER RECIRC (120°)		ISOLATION VALVE
	PRESSURE REDUCING VALVE	WHA-1	WATER HAMMER ARRESTOR
			CHECK VALVE

DOMESTIC WATER RISER DIAGRAM

SCALE: N.T.S.

DATE: ISSUE

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DOMESTIC WATER RISER DIAGRAM

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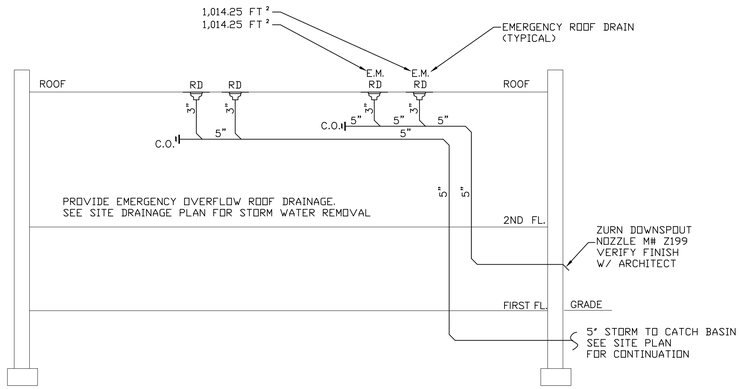

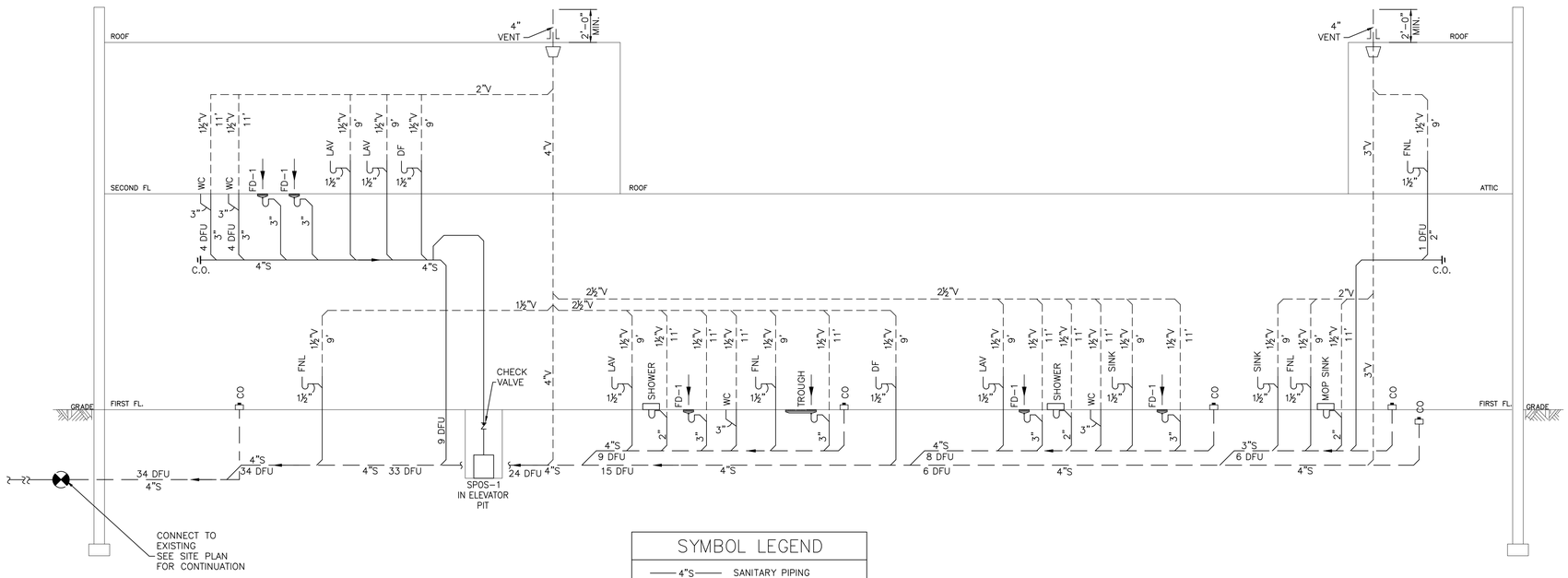

SYMBOL LEGEND

4"S	SANITARY PIPING
4"S	SANITARY PIPING BELOW GRADE
	SANITARY VENT PIPING
4"GW	GREASE WASTE PIPING
	CONDENSATE PIPING
C.O.	CLEAN OUT ABOVE GROUND
C.O.	CLEAN OUT W/DECK PLATE
W.C.O.	WALL CLEAN OUT
F.D.	FLOOR DRAIN
FNL	FUNNEL DRAIN
R.D.	ROOF DRAIN

SANITARY RISER DIAGRAM

SCALE: N.T.S.

DATE: ISSUE

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PROJECT #: 21-08

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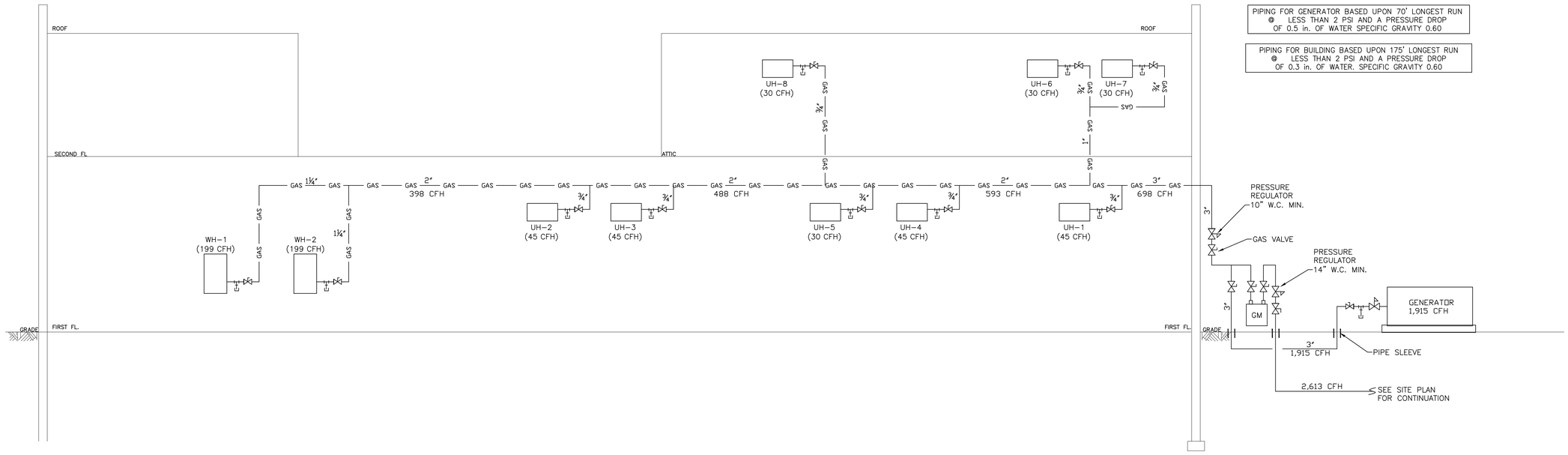
GAS PIPING NOTES:
1. THE BUILDING SHALL NOT BE WEAKENED BY THE INSTALLATION OF ANY GAS PIPING. IN THE PROCESS OF INSTALLING OR REPAIRING ANY GAS PIPING, THE FINISHED FLOORS, WALLS, CEILINGS, TILE WORK OR ANY OTHER PART OF THE BUILDING OR PREMISES WHICH IS REQUIRED TO BE CHANGED OR REPLACED SHALL BE LEFT IN A SAFE STRUCTURAL CONDITION IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
2. PENETRATIONS OF FLOOR/CEILING ASSEMBLIES AND ASSEMBLIES REQUIRED TO HAVE A FIRE-RESISTANCE RATING SHALL BE PROTECTED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.
3. CUTS, NOTCHES AND HOLES BORED IN TRUSSES, STRUCTURAL COMPOSITE LUMBER, STRUCTURAL GLUED-LAMINATED MEMBERS AND I-JOISTS ARE PROHIBITED EXCEPT WHERE PERMITTED BY THE MANUFACTURER'S RECOMMENDATIONS OR WHERE THE EFFECTS OF SUCH ALTERATIONS ARE SPECIFICALLY CONSIDERED IN THE DESIGN OF THE MEMBER BY A REGISTERED DESIGN PROFESSIONAL.
4. NOTCHING AT THE ENDS OF JOISTS SHALL NOT EXCEED ONE-FOURTH THE JOIST DEPTH. HOLES BORED IN JOISTS SHALL NOT BE WITHIN 2 INCHES (51 MM) OF THE TOP AND BOTTOM OF THE JOIST AND THEIR DIAMETER SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE MEMBER. NOTCHES IN THE TOP OR BOTTOM OF THE JOIST SHALL NOT EXCEED ONE-SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE ONE-THIRD OF THE SPAN.
5. IN EXTERIOR WALLS AND BEARING PARTITIONS, ANY WOOD STUD IS PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. CUTTING OR NOTCHING OF STUDS TO A DEPTH NOT GREATER THAN 40 PERCENT OF THE WIDTH OF THE STUD IS PERMITTED IN NONLOAD-BEARING PARTITIONS SUPPORTING NO LOADS OTHER THAN THE WEIGHT OF THE PARTITION.
6. A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD DEPTH IS PERMITTED TO BE BORED IN ANY WOOD STUD. BORED HOLES NOT GREATER THAN 60 PERCENT OF THE DEPTH OF THE STUD ARE PERMITTED IN NONLOAD-BEARING PARTITIONS OR IN ANY WALL WHERE EACH BORED STUD IS DOUBLED, PROVIDED NOT MORE THAN TWO SUCH SUCCESSIVE DOUBLED STUDS ARE SO BORED. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8 INCH (15.9 MM) TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.
7. TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, DRILLED, NOTCHED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT THE WRITTEN CONCURRENCE AND APPROVAL OF A REGISTERED DESIGN PROFESSIONAL. ALTERATIONS RESULTING IN THE ADDITION OF LOADS TO ANY MEMBER (E.G., HVAC EQUIPMENT, WATER HEATERS) SHALL NOT BE PERMITTED WITHOUT VERIFICATION THAT THE TRUSS IS CAPABLE OF SUPPORTING SUCH ADDITIONAL LOADING.
8. FLANGES AND LIPS OF LOAD-BEARING, COLD-FORMED STEEL FRAMING MEMBERS SHALL NOT BE CUT OR NOTCHED. HOLES IN WEBS OF LOAD-BEARING, COLD-FORMED STEEL FRAMING MEMBERS SHALL BE PERMITTED ALONG THE CENTERLINE OF THE WEB OF THE FRAMING MEMBER AND SHALL NOT EXCEED THE DIMENSIONAL LIMITATIONS, PENETRATION SPACING OR MINIMUM HOLE EDGE DISTANCE AS PRESCRIBED BY A REGISTERED DESIGN PROFESSIONAL. CUTTING, NOTCHING AND BORING HOLES OF STEEL FLOOR/ROOF DECKING SHALL BE AS PRESCRIBED BY A REGISTERED DESIGN PROFESSIONAL.
9. FLANGES AND LIPS OF NONSTRUCTURAL COLD-FORMED STEEL WALL STUDS SHALL BE PERMITTED ALONG THE CENTERLINE OF THE WEB OF THE FRAMING MEMBER, SHALL NOT EXCEED 11/2 INCHES (38 MM) IN WIDTH OR 4 INCHES (102 MM) IN LENGTH, AND THE HOLES SHALL NOT BE SPACED LESS THAN 24 INCHES (610 MM) CENTER TO CENTER FROM ANOTHER HOLE OR LESS THAN 10 INCHES (254 MM) FROM THE BEARING END.
10. WHERE AN ADDITIONAL APPLIANCE IS TO BE SERVED, THE EXISTING PIPING SHALL BE CHECKED TO DETERMINE IF IT HAS ADEQUATE CAPACITY FOR ALL APPLIANCES SERVED. IF INADEQUATE, THE EXISTING SYSTEM SHALL BE ENLARGED AS REQUIRED OR SEPARATE PIPING OF ADEQUATE CAPACITY SHALL BE PROVIDED.
11. FOR OTHER THAN STEEL PIPE, EXPOSED PIPING SHALL BE IDENTIFIED BY A YELLOW LABEL MARKED "GAS" IN BLACK LETTERS. THE MARKING SHALL BE SPACED AT INTERVALS NOT EXCEEDING 5 FEET (1524 MM). THE MARKING SHALL NOT BE REQUIRED ON PIPE LOCATED IN THE SAME ROOM AS THE APPLIANCE SERVED.
12. ALL GAS PIPE MATERIAL SHALL BE SCHEDULE 40 METALLIC PIPE.
13. ALL EXTERIOR GAS PIPING SHALL BE GALVANIZED.
14. PIPE AND FITTINGS SHALL BE CLEAR AND FREE FROM CUTTING BURRS AND DEFECTS IN STRUCTURE OR THREADING, AND SHALL BE THOROUGHLY BRUSHED, AND CHIP AND SCALE BLOWN. DEFECTS IN PIPE AND FITTINGS SHALL NOT BE REPAIRED. DEFECTIVE PIPE AND FITTINGS SHALL BE REPLACED.
15. WHERE IN CONTACT WITH MATERIAL OR ATMOSPHERE EXERTING A CORROSIVE ACTION, METALLIC PIPING AND FITTINGS COATED WITH A CORROSION-RESISTANT MATERIAL SHALL BE USED. EXTERNAL COATINGS OR LININGS USED ON PIPING OR COMPONENTS SHALL NOT BE CONSIDERED AS ADDING STRENGTH.
16. PIPE WITH THREADS THAT ARE STRIPPED, CHIPPED, CORRODED OR OTHERWISE DAMAGED SHALL NOT BE USED. WHERE A WELD OPENS DURING THE OPERATION OF CUTTING OR THREADING, THAT PORTION OF THE PIPE SHALL NOT BE USED.
17. THE TYPE OF PIPING JOINT USED SHALL BE SUITABLE FOR THE PRESSURE-TEMPERATURE CONDITIONS AND SHALL BE SELECTED GIVING CONSIDERATION TO JOINT TIGHTNESS AND MECHANICAL STRENGTH UNDER THE SERVICE CONDITIONS. THE JOINT SHALL BE ABLE TO SUSTAIN THE MAXIMUM END FORCE CAUSED BY THE INTERNAL PRESSURE AND ANY ADDITIONAL FORCES CAUSED BY TEMPERATURE EXPANSION OR CONTRACTION, VIBRATION, FATIGUE OR THE WEIGHT OF THE PIPE AND ITS CONTENTS.
18. MATERIAL FOR GASKETS SHALL BE CAPABLE OF WITHSTANDING THE DESIGN TEMPERATURE AND PRESSURE OF THE PIPING SYSTEM, AND THE CHEMICAL CONSTITUENTS OF THE GAS BEING CONDUCTED, WITHOUT CHANGE TO ITS CHEMICAL AND PHYSICAL PROPERTIES. THE EFFECTS OF FIRE EXPOSURE TO THE JOINT SHALL BE CONSIDERED IN CHOOSING MATERIAL. ACCEPTABLE MATERIALS INCLUDE METAL (PLAIN OR CORRUGATED), COMPOSITION, ALUMINUM "O"RINGS, SPIRAL WOUND METAL GASKETS, RUBBER-FACED PHENOLIC AND ELASTOMERIC. WHERE A FLANGED JOINT IS OPENED, THE GASKET SHALL BE REPLACED. FULL-FACE FLANGE GASKETS SHALL BE USED WITH ALL NONSTEEL FLANGES.
19. PIPING SHALL NOT BE INSTALLED IN OR THROUGH A DUCTED SUPPLY, RETURN OR EXHAUST DUCT, OR A TRASH OR CLOTHES CHUTE, CHIMNEY OR GAS VENT, VENTILATING DUCT, DUMBWAITER OR ELEVATOR SHAFT. PIPING INSTALLED DOWNSTREAM OF THE POINT OF DELIVERY SHALL NOT EXTEND THROUGH ANY TOWNHOUSE UNIT OTHER THAN THE UNIT SERVED BY SUCH PIPING.
20. CONCEALED PIPING SHALL NOT BE LOCATED IN SOLID PARTITIONS AND SOLID WALLS, UNLESS INSTALLED IN A VENTILATED CHASE OR CASING.
21. UNDERGROUND PIPING, WHERE INSTALLED BELOW GRADE THROUGH THE OUTER FOUNDATION OR BASEMENT WALL OF A BUILDING, SHALL BE ENCASED IN A PROTECTIVE PIPE SLEEVE. THE ANNULAR SPACE BETWEEN THE GAS PIPING AND THE SLEEVE SHALL BE SEALED.
22. PIPING INSTALLED OUTDOORS SHALL BE ELEVATED NOT LESS THAN 3-1/2 INCHES (89 MM) ABOVE GROUND AND WHERE INSTALLED ACROSS ROOF SURFACES, SHALL BE ELEVATED NOT LESS THAN 3-1/2 INCHES (89 MM) ABOVE THE ROOF SURFACE. PIPING INSTALLED ABOVE GROUND, OUTDOORS, AND INSTALLED ACROSS THE SURFACE OF ROOFS SHALL BE SECURELY SUPPORTED AND LOCATED WHERE IT WILL BE PROTECTED FROM PHYSICAL DAMAGE. WHERE PASSING THROUGH AN OUTSIDE WALL, THE PIPING SHALL BE PROTECTED AGAINST CORROSION BY COATING OR WRAPPING WITH AN INERT MATERIAL. WHERE PIPING IS ENCASED IN A PROTECTIVE PIPE SLEEVE, THE ANNULAR SPACE BETWEEN THE PIPING AND THE SLEEVE SHALL BE SEALED.
23. METALLIC PIPE EXPOSED TO CORROSIVE ACTION, SUCH AS SOIL CONDITION OR MOISTURE, SHALL BE PROTECTED IN AN APPROVED MANNER. ZINC COATINGS (GALVANIZING) SHALL NOT BE DEEMED ADEQUATE PROTECTION FOR GAS PIPING UNDERGROUND. FERROUS METAL EXPOSED IN EXTERIOR LOCATIONS SHALL BE PROTECTED FROM CORROSION. ZINC COATINGS (GALVANIZING) SHALL BE DEEMED ADEQUATE PROTECTION FOR GAS PIPING EXPOSED IN EXTERIOR LOCATIONS. WHERE DISSIMILAR METALS ARE JOINED UNDERGROUND, AN INSULATING COUPLING OR FITTING SHALL BE USED. PIPING SHALL NOT BE LAID IN CONTACT WITH CINDERS.
24. PRIOR TO ACCEPTANCE AND INITIAL OPERATION, ALL PIPING INSTALLATIONS SHALL BE INSPECTED AND PRESSURE TESTED TO DETERMINE THAT THE MATERIALS, DESIGN, FABRICATION, AND INSTALLATION PRACTICES COMPLY WITH THE REQUIREMENTS OF THE 2020 NYSFGC.

GENERAL NOTES:
1. PROVIDE NEW SERVICE FROM STREET WITH NEW GAS METER, PRV'S SHUTOFF VALVES, MOUNTING PAD. INSTALLATION SHALL BE AS PER REQUIREMENTS OF THE 2020 FUEL GAS CODE OF NYS, DOB AND LOCAL NATURAL GAS PROVIDER. INCLUDE ISOLATION VALVES AND SUPPORT TO EQUIPMENT.
2. PLUMBING CONTRACTOR TO VERIFY WITH ARCHITECT THE PRESSURE REQUIREMENTS FOR ALL APPROVED GAS-FIRED EQUIPMENT TO BE UTILIZED WITHIN THE BUILDING.
3. PLUMBING CONTRACTOR TO VERIFY WITH ELECTRICAL CONTRACTOR PRESSURE REQUIREMENTS FOR GENERATOR PRIOR TO SUBMISSION TO GAS SERVICE PROVIDER.

PIPING FOR GENERATOR BASED UPON 70' LONGEST RUN @ LESS THAN 2 PSI AND A PRESSURE DROP OF 0.5 in. OF WATER SPECIFIC GRAVITY 0.60

PIPING FOR BUILDING BASED UPON 175' LONGEST RUN @ LESS THAN 2 PSI AND A PRESSURE DROP OF 0.3 in. OF WATER. SPECIFIC GRAVITY 0.60



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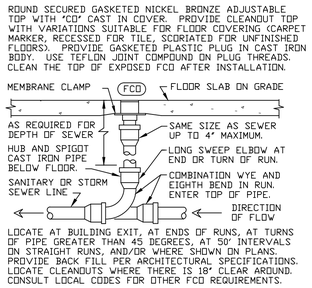
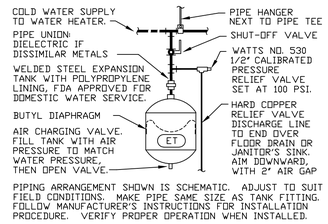


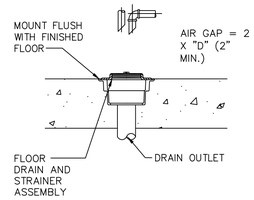
1 FLOOR CLEANOUT

NOT TO SCALE



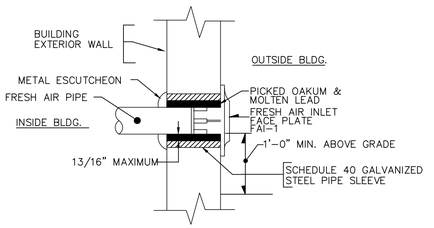
2 EXPANSION TANK

NOT TO SCALE



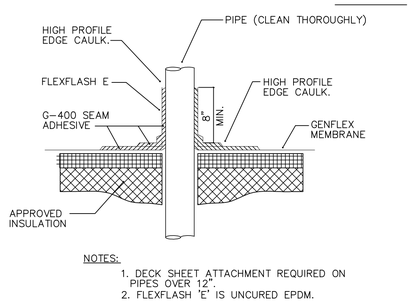
3 FLOOR DRAIN DETAILS

NOT TO SCALE



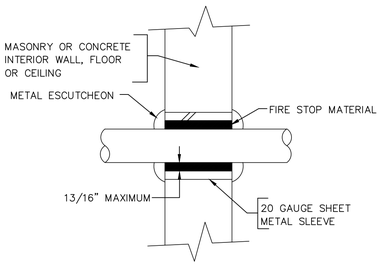
4 FRESH AIR INLET

NOT TO SCALE



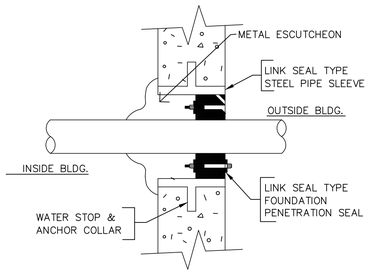
5 PIPE PENETRATION THROUGH ROOF

NOT TO SCALE



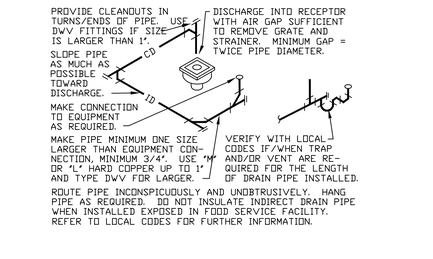
6 PIPE PENETRATION INTERIOR WALL

NOT TO SCALE



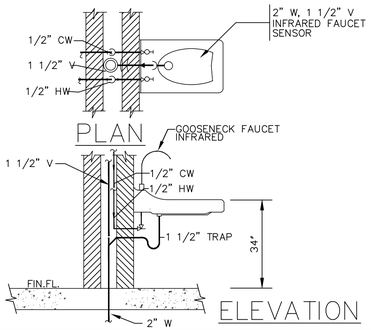
7 PIPE PENETRATION FOUNDATION WALL

NOT TO SCALE



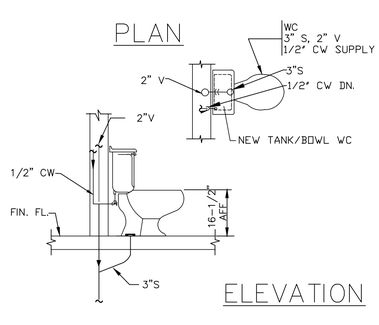
8 CONDENSATE DRAIN

NOT TO SCALE



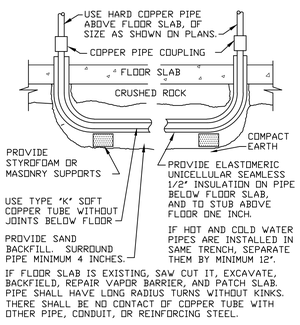
9 ADA WALL MOUNTED LAVATORY

NOT TO SCALE



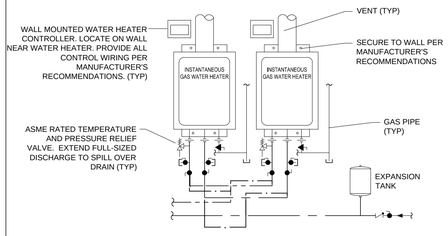
10 ADA FLOOR MOUNTED WC

NOT TO SCALE



11 WATER PIPE UNDER SLAB

NOT TO SCALE



12 WATER HEATER

NOT TO SCALE

DETAILS SHOWN REFLECT A TYPICAL ORIENTATION AND VIEW FOR THE PLUMBING FIXTURES. FOR ORIENTATION SEE PLUMBING PLANS. THE INTENT OF THE DETAILS IS TO CLARIFY PROPER CONNECTION OF PLUMBING FIXTURES, AND EQUIPMENT.

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PLUMBING DETAILS

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2020 PLUMBING CODE OF NEW YORK STATE

PLUMBING CONTRACT NOTES

1. ALL PLUMBING WORK PERFORMED AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL CONFORM TO THE 2020 NYS PLUMBING CODE AND ALL OTHER LOCAL CODES HAVING JURISDICTION.

2. EQUIPMENT AND MATERIALS INSTALLED SHALL BE NEW UNLESS NOTED OTHERWISE ON DRAWINGS.

3. PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR AND SPRINKLER CONTRACTOR IN ORDER TO AVOID ALL CONFLICTS.

4. THE PLUMBING CONTRACTOR SHALL PREPARE ALL FORMS AND DRAWINGS, PAY ALL FEES INCLUDING BUT NOT LIMITED TO THOSE REQUIRED FOR DRAWING PREPARATION, PERMITS AND APPLICATIONS TO AUTHORITIES. THE PLUMBING CONTRACTOR SHALL FILE ALL REQUIRED DRAWINGS, PLANS AND PERMITS TO OBTAIN APPROVAL. PLUMBING CONTRACTOR SHALL OBTAIN ALL WORK PERMITS AND APPROVED SIGN-OFFS AS REQUIRED TO EXECUTE THIS WORK IN A SAFE LEGAL MANNER.

5. THE PLUMBING CONTRACTOR SHALL PERFORM TESTS AND PAY ALL ASSOCIATED FEES REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION AND ARRANGE FOR ALL INSPECTIONS REQUIRED TO OBTAIN APPROVAL OF SYSTEMS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT.

6. THE PLUMBING CONTRACTOR SHALL FURNISH ALL CERTIFICATES OF INSURANCE AND ALL LICENSES AS REQUIRED BY LOCAL AUTHORITIES.

7. THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO ALL PLUMBING EQUIPMENT WITHOUT ANY ADDITIONAL COSTS TO OWNER WHETHER OR NOT IT IS SPECIFICALLY INDICATED IN THESE DOCUMENTS.

8. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS INCLUDING SIZES AND LOCATION OF CONNECTIONS BEFORE SUBMITTING A QUOTATION FOR THE WORK HEREIN.

9. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, LABOR AND MATERIALS REQUIRED TO PERFORM ALL CUTTING, TRENCHING, EXCAVATION, BACKFILLING, ETC, NECESSARY FOR THE PROPER INSTALLATION OF THE WORK OF THIS CONTRACT. THIS CONTRACT SHALL PERFORM ALL FINAL PATCHING TO BRING AREA OF WORK BACK TO ORIGINAL STATE UNLESS OTHERWISE NOTED.

10. ALL CONNECTIONS TO EQUIPMENT AND SERVICES SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND THE MANUFACTURER'S RECOMMENDATIONS.

11. PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL NEW PLUMBING FIXTURES AND EQUIPMENT TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION. NO FIXTURES OR EQUIPMENT ARE TO BE INSTALLED WITHOUT ARCHITECT/ENGINEER APPROVAL.

12. THE PLUMBING CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL LABOR AND MATERIALS INSTALLED UNDER THIS CONTRACT AND SHALL GUARANTEE THE WORK PERFORMED UNDER THIS CONTRACT FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF COMPLETION OF WORK.
13. PLUMBING CONTRACTOR SHALL COORDINATE LOCATION OF ALL ROUGHING WITH THE RESPONSIBLE CONTRACTOR PRIOR TO INSTALLATIONS AND SHALL MAKE ALL FINAL CONNECTIONS AS REQUIRED. DRAWINGS DEPICT DESIGN INTENT AND SHALL NOT BE SCALED FOR DIMENSIONS.

GENERAL PLUMBING NOTES

ALL REFERENCED SECTION NUMBERS AND TABLES BELOW ARE FROM THE 2020 NYS PLUMBING CODE.

301.2 SYSTEM INSTALLATION. PLUMBING SHALL BE INSTALLED WITH DUE REGARD TO PRESERVATION OF THE STRENGTH OF STRUCTURAL MEMBERS AND PREVENTION OF DAMAGES TO WALLS AND OTHER SURFACES THROUGH FIXTURE USAGE.

301.3 CONNECTIONS TO THE SANITARY DRAINAGE SYSTEM. ALL PLUMBING FIXTURES, DRAINS, APPURTENANCES AND APPLIANCES USED TO RECEIVE OR DISCHARGE LIQUID WASTES OR SEWAGE SHALL BE DIRECTLY CONNECTED TO THE SANITARY DRAINAGE SYSTEM OF THE BUILDING OR PREMISES, IN ACCORDANCE WITH THE REQUIREMENTS OF THIS CODE. THIS SECTION SHALL NOT BE CONSTRUED TO PREVENT THE INDIRECT WASTE SYSTEMS REQUIRED BY CHAPTER 8.

303.1 IDENTIFICATION. EACH LENGTH OF PIPE AND EACH PIPE FITTING, TRAP, FIXTURE, MATERIAL AND DEVICE UTILIZED IN A PLUMBING SYSTEM SHALL BEAR THE IDENTIFICATION OF THE MANUFACTURER AND ANY MARKINGS REQUIRED BY THE APPLICABLE REFERENCED STANDARDS.

303.2 INSTALLATION OF MATERIALS. MATERIALS USED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE STANDARDS UNDER WHICH THE MATERIALS ARE ACCEPTED AND APPROVED. IN THE ABSENCE OF SUCH INSTALLATION PROCEDURES, THE MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED. WHERE THE REQUIREMENTS OF REFERENCED STANDARDS OR MANUFACTURER'S INSTALLATION INSTRUCTIONS DO NOT CONFORM TO MINIMUM PROVISIONS OF THIS CODE, THE PROVISIONS OF THIS CODE SHALL APPLY.

304.2 STRAINER PLATES. ALL STRAINER PLATES ON DRAIN INLETS SHALL BE DESIGNED AND INSTALLED SO THAT ALL OPENINGS ARE NOT GREATER THAN 0.5 INCH IN LEAST DIMENSION.

304.4 OPENINGS FOR PIPES. IN OR ON STRUCTURES WHERE OPENINGS HAVE BEEN MADE IN WALLS, FLOORS OR CEILINGS FOR THE PASSAGE OF PIPES, THE ANNULAR SPACE BETWEEN THE PIPE AND THE SIDES OF THE OPENING SHALL BE SEALED WITH CAULKING MATERIALS OR CLOSED WITH GASKETING SYSTEMS COMPATIBLE WITH THE PIPING MATERIALS AND LOCATIONS.

305.1 CORROSION. METALLIC PIPING, EXCEPT FOR CAST IRON, DUCTILE IRON AND GALVANIZED STEEL, SHALL NOT BE PLACED IN DIRECT CONTACT WITH STEEL FRAMING MEMBERS, CONCRETE OR CINDER WALLS AND FLOORS OR OTHER MASONRY. METALLIC PIPING SHALL NOT BE PLACED IN DIRECT CONTACT WITH CORROSIVE SOIL. WHERE SHEATHING IS USED TO PREVENT DIRECT CONTACT, THE SHEATHING SHALL HAVE A THICKNESS OF NOT LESS THAN 0.008 INCH (8 MIL) (0.203 MM) AND THE SHEATHING SHALL BE MADE OF PLASTIC. WHERE SHEATHING PROTECTS PIPING THAT PENETRATES CONCRETE OR MASONRY WALLS OR FLOORS, THE SHEATHING SHALL BE INSTALLED IN A MANNER THAT ALLOWS MOVEMENT OF THE PIPING WITHIN THE SHEATHING.

SECTION 306.1 SUPPORT OF PIPING. BURIED PIPING SHALL BE SUPPORTED THROUGHOUT ITS ENTIRE LENGTH.

SECTIONS 306.2 THROUGH 306.4 TRENCHING, EXCAVATION AND BACKFILLING. SHALL BE IN COMPLIANCE WITH NYS PLUMBING CODE. SEE REFERENCED CODE FOR REQUIREMENTS.

308.3 MATERIALS. HANGERS, ANCHORS AND SUPPORTS SHALL SUPPORT THE PIPING AND THE CONTENTS OF THE PIPING. HANGERS AND STRAPPING MATERIAL SHALL BE OF APPROVED MATERIAL THAT WILL NOT PROMOTE GALVANIC ACTION.

308.5 INTERVAL OF SUPPORT. PIPE SHALL BE SUPPORTED IN ACCORDANCE WITH TABLE 308.5.

405.1 WATER SUPPLY PROTECTION. THE SUPPLY LINES AND FITTINGS FOR EVERY PLUMBING FIXTURE SHALL BE INSTALLED SO AS TO PREVENT BACKFLOW.

DOMESTIC HOT AND COLD WATER NOTES

605.4 WATER DISTRIBUTION PIPE. WATER DISTRIBUTION PIPING AND TUBING SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.4. HOT WATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A PRESSURE RATING OF NOT LESS THAN 100 PSI AT 180° F.

TABLE 605.4
WATER DISTRIBUTION PIPE

MATERIAL	STANDARD
CHLORINATED POLYVINYL CHLORIDE (CPVC) PLASTIC PIPE	ASTM D 2846; ASTM F 441; ASTM F 442; CSA B137.6
CHLORINATED POLYVINYL CHLORIDE/ALUMINUM/CHLORINATED POLYVINYL CHLORIDE (CPVC/AL/CPVC)	ASTM F 2855
COPPER OR COPPER-ALLOY PIPE	ASTM B 42; ASTM B 302
COPPER OR COPPER-ALLOY TUBING (TYPE K, WK, L, WL, M OR WM)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447
CROSS-LINKED POLYETHYLENE (PEX) PLASTIC PIPE AND TUBING	ASTM F 876; ASTM F 877; CSA B137.5
CROSS-LINKED POLYETHYLENE/ALUMINUM/CROSS-LINKED POLYETHYLENE (PEX-AL-PEX) PIPE	ASTM F 1281; ASTM F 2262; CSA B137.10
CROSS-LINKED POLYETHYLENE/ALUMINUM/HIGH DENSITY POLYETHYLENE (PEX-AL-HDPE)	ASTM F 1986
DUCTILE IRON WATER PIPE	AWWA C151/A21.51; AWWA C115/A21.15
GALVANIZED STEEL PIPE	ASTM A 53
POLYETHYLENE/ALUMINUM/POLYETHYLENE (PE-AL-PE) COMPOSITE PIPE	ASTM F 1282
POLYETHYLENE OF RAISED TEMPERATURE (PE-RT) PLASTIC TUBING	ASTM F 2769
POLYPROPYLENE (PP) PLASTIC PIPE OR TUBING	ASTM F 2389; CSA B137.11
STAINLESS STEEL PIPE (TYPE 304/304L)	ASTM A 312; ASTM A 778
STAINLESS STEEL PIPE (TYPE 316/316L)	ASTM A 312; ASTM A 778

605.5 FITTINGS. PIPE FITTINGS SHALL BE APPROVED FOR INSTALLATION WITH THE PIPING MATERIAL INSTALLED AND SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN TABLE 605.5. PIPE FITTINGS UTILIZED IN WATER SUPPLY SYSTEMS SHALL ALSO COMPLY WITH NSF 61. DUCTILE AND GRAY IRON PIPE AND PIPE FITTINGS UTILIZED IN WATER SERVICE PIPING SYSTEMS SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104/A21.4.

605.6 FLEXIBLE WATER CONNECTORS. FLEXIBLE WATER CONNECTORS EXPOSED TO CONTINUOUS PRESSURE SHALL CONFORM TO ASME A112.18.6/CSA B125.6. ACCESS SHALL BE PROVIDED TO ALL FLEXIBLE WATER CONNECTORS.

605.7 VALVES. VALVES SHALL BE COMPATIBLE WITH THE TYPE OF PIPING MATERIAL INSTALLED IN THE SYSTEM. VALVES SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.7 OR SHALL BE APPROVED. VALVES INTENDED TO SUPPLY DRINKING WATER SHALL MEET THE REQUIREMENTS OF NSF 61.

606.2 LOCATION OF SHUTOFF VALVES. SHUTOFF VALVES SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

1. ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE OTHER THAN BATHTUBS AND SHOWERS IN ONE- AND TWO-FAMILY RESIDENTIAL OCCUPANCIES, AND OTHER THAN IN INDIVIDUAL SLEEPING UNITS THAT ARE PROVIDED WITH SHUTOFF VALVES IN HOTELS, MOTELS, BOARDING HOUSES AND SIMILAR OCCUPANCIES.
2. ON THE WATER SUPPLY TO EACH SILLCOCK.
3. ON THE WATER SUPPLY TO EACH APPLIANCE OR MECHANICAL EQUIPMENT.

607.1.2 TEMPERED WATER TEMPERATURE CONTROL. TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070/ASME A112.1070/CSA B125.70 AND SHALL LIMIT THE TEMPERED WATER TO NOT GREATER THAN 110°F (43°C). THIS PROVISION SHALL NOT SUPERSEDE THE REQUIREMENT FOR PROTECTIVE SHOWER VALVES IN ACCORDANCE WITH SECTION 412.3.

607.2 HOT OR TEMPERED WATER SUPPLY TO FIXTURES. THE DEVELOPED LENGTH OF HOT OR TEMPERED WATER PIPING, FROM THE SOURCE OF HOT WATER TO THE FIXTURES THAT REQUIRE HOT OR TEMPERED WATER, SHALL NOT EXCEED 50 FEET (15 240 MM). RECIRCULATING SYSTEM PIPING AND HEAT-TRACED PIPING SHALL BE CONSIDERED TO BE SOURCES OF HOT OR TEMPERED WATER.

607.2.1 CIRCULATION SYSTEMS AND HEAT TRACE SYSTEMS FOR MAINTAINING HEATED WATER TEMPERATURE IN DISTRIBUTION SYSTEMS. FOR OTHER THAN GROUP R2, R3 AND R4 OCCUPANCIES THAT ARE THREE STORIES OR LESS IN HEIGHT ABOVE GRADE PLANE, THE INSTALLATION OF HEATED WATER CIRCULATION AND HEAT TRACE SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION C404.6 OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

608.2 PLUMBING FIXTURES. THE SUPPLY LINES AND FITTINGS FOR PLUMBING FIXTURES SHALL BE INSTALLED SO AS TO PREVENT BACKFLOW. PLUMBING FIXTURE FITTINGS SHALL PROVIDE BACKFLOW PROTECTION IN ACCORDANCE WITH ASME A112.18.1/CSA B125.1.

608.3 DEVICES, APPURTENANCES, APPLIANCES AND APPARATUS. DEVICES, APPURTENANCES, APPLIANCES AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERILIZATION, DISTILLATION, PROCESSING, COOLING, OR STORAGE OF ICE OR FOODS, AND THAT CONNECT TO THE WATER SUPPLY SYSTEM, SHALL BE PROVIDED WITH PROTECTION AGAINST BACKFLOW AND CONTAMINATION OF THE WATER SUPPLY SYSTEM.

501.8 TEMPERATURE CONTROLS. HOT WATER SUPPLY SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC TEMPERATURE CONTROLS CAPABLE OF ADJUSTMENTS FROM THE LOWEST TO THE HIGHEST ACCEPTABLE TEMPERATURE SETTINGS FOR THE INTENDED TEMPERATURE OPERATING RANGE.

DOMESTIC HOT AND COLD WATER NOTES

605.3 WATER SERVICE PIPE. WATER SERVICE PIPE SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.3. WATER SERVICE PIPE OR TUBING, INSTALLED UNDERGROUND AND OUTSIDE OF THE STRUCTURE, SHALL HAVE A WORKING PRESSURE RATING OF NOT LESS THAN 160 PSI (1100 KPA) AT 73.4°F (23°C). WHERE THE WATER PRESSURE EXCEEDS 160 PSI (1100 KPA), PIPING MATERIAL SHALL HAVE A WORKING PRESSURE RATING NOT LESS THAN THE HIGHEST AVAILABLE PRESSURE. WATER SERVICE PIPING MATERIALS NOT THIRD-PARTY CERTIFIED FOR WATER DISTRIBUTION SHALL TERMINATE AT OR BEFORE THE FULL OPEN VALVE LOCATED AT THE ENTRANCE TO THE STRUCTURE. DUCTILE IRON WATER SERVICE PIPING SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104/A21.4.

605.3.1 DUAL CHECK-VALVE-TYPE BACKFLOW PREVENTER. DUAL CHECK-VALVE BACKFLOW PREVENTERS INSTALLED ON THE WATER SUPPLY SYSTEM SHALL COMPLY WITH ASSE 1024 OR CSA B64.6.

606.6 WATER SUPPLY SYSTEM TEST. UPON COMPLETION OF A SECTION OF OR THE ENTIRE WATER SUPPLY SYSTEM, THE SYSTEM, OR PORTION COMPLETED, SHALL BE TESTED IN ACCORDANCE WITH SECTION 312.

607.5 INSULATION OF PIPING. FOR OTHER THAN GROUP R2, R3 AND R4 OCCUPANCIES THAT ARE THREE STORIES OR LESS IN HEIGHT ABOVE GRADE PLANE, PIPING TO THE INLET OF A WATER HEATER AND PIPING CONVEYING WATER HEATED BY A WATER HEATER SHALL BE INSULATED IN ACCORDANCE WITH SECTION C404.4 OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

608.16.4.2 HOSE CONNECTIONS. SILLCOCKS, HOSE BIBBS, WALL HYDRANTS AND OTHER OPENINGS WITH A HOSE CONNECTION SHALL BE PROTECTED BY AN ATMOSPHERIC-TYPE OR PRESSURE-TYPE VACUUM BREAKER OR A PERMANENTLY ATTACHED HOSE CONNECTION VACUUM BREAKER.

EXCEPTION:
1. THIS SECTION SHALL NOT APPLY TO WATER HEATER AND BOILER DRAIN VALVES THAT ARE PROVIDED WITH HOSE CONNECTION THREADS AND THAT ARE INTENDED ONLY FOR TANK VESSEL DRAINING.
2. THIS SECTION SHALL NOT APPLY TO WATER SUPPLY VALVES INTENDED FOR CONNECTION OF CLOTHES WASHING MACHINES WHERE BACKFLOW PREVENTION IS OTHERWISE PROVIDED OR IS INTEGRAL WITH THE MACHINE.

608.14 LOCATION OF BACKFLOW PREVENTERS. ACCESS SHALL BE PROVIDED TO BACKFLOW PREVENTERS AS SPECIFIED BY THE INSTALLATION INSTRUCTIONS OF THE APPROVED MANUFACTURER.

606.1 LOCATION OF FULL-OPEN VALVES. FULL-OPEN VALVES SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

1. ON THE BUILDING WATER SERVICE PIPE FROM THE PUBLIC WATER SUPPLY NEAR THE CURB.
2. ON THE WATER DISTRIBUTION PIPE AT THE ENTRANCE INTO THE STRUCTURE.
3. ON THE DISCHARGE SIDE OF EVERY WATER METER.
4. ON THE BASE OF EVERY WATER RISER PIPE IN OCCUPANCIES OTHER THAN MULTIPLE-FAMILY RESIDENTIAL OCCUPANCIES THAT ARE TWO STORIES OR LESS IN HEIGHT AND IN ONE- AND TWO-FAMILY RESIDENTIAL OCCUPANCIES.
5. ON THE TOP OF EVERY WATER DOWN-FEED PIPE IN OCCUPANCIES OTHER THAN ONE AND TWO-FAMILY RESIDENTIAL OCCUPANCIES.
6. ON THE ENTRANCE TO EVERY WATER SUPPLY PIPE TO A DWELLING UNIT, EXCEPT WHERE SUPPLYING FIXTURES EQUIPPED WITH INDIVIDUAL STOPS.
7. ON THE WATER SUPPLY PIPE TO AND FROM A GRAVITY OR PRESSURIZED WATER TANK.
8. ON THE WATER SUPPLY PIPE TO EVERY WATER HEATER.

SANITARY DRAINAGE NOTES

AS PER PLUMBING CODE SECTION 708.1 CLEANOUTS REQUIRED, CLEANOUTS SHALL BE PROVIDED FOR DRAINAGE PIPING IN ACCORDANCE WITH SECTIONS 708.1.1 THROUGH 708.1.11. AS FOLLOWS:

708.1.1 HORIZONTAL DRAINS AND BUILDING DRAINS. HORIZONTAL DRAINAGE PIPES IN BUILDINGS SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 100 FEET (30 480 MM). BUILDING DRAINS SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 100 FEET (30 480 MM) EXCEPT WHERE MANHOLES ARE USED INSTEAD OF CLEANOUTS, THE MANHOLES SHALL BE LOCATED AT INTERVALS OF NOT MORE THAN 400 FEET (122 M). THE INTERVAL LENGTH SHALL BE MEASURED FROM THE CLEANOUT OR MANHOLE OPENING, ALONG THE DEVELOPED LENGTH OF THE PIPING TO THE NEXT DRAINAGE FITTING PROVIDING ACCESS FOR CLEANING, THE END OF THE HORIZONTAL DRAIN OR THE END OF THE BUILDING DRAIN.

708.1.2 BUILDING SEWERS. BUILDING SEWERS SMALLER THAN 8 INCHES (203 MM) SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 100 FEET (30 480 MM). BUILDING SEWERS 8 INCHES (203 MM) AND LARGER SHALL HAVE A MANHOLE LOCATED NOT MORE THAN 200 FEET (60 960 MM) FROM THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER AND AT INTERVALS OF NOT MORE THAN 400 FEET (122 M). THE INTERVAL LENGTH SHALL BE MEASURED FROM THE CLEANOUT OR MANHOLE OPENING, ALONG THE DEVELOPED LENGTH OF THE PIPING TO THE NEXT DRAINAGE FITTING PROVIDING ACCESS FOR CLEANING, A MANHOLE OR THE END OF THE BUILDING SEWER.

708.1.3 BUILDING DRAIN AND BUILDING SEWER JUNCTION. THE JUNCTION OF THE BUILDING DRAIN AND THE BUILDING SEWER SHALL BE SERVED BY A CLEANOUT THAT IS LOCATED AT THE JUNCTION OR WITHIN 10 FEET (3048 MM) OF THE DEVELOPED LENGTH OF PIPING UPSTREAM OF THE JUNCTION. FOR THE REQUIREMENTS OF THIS SECTION, THE REMOVAL OF THE WATER CLOSET SHALL NOT BE REQUIRED TO PROVIDE CLEANOUT ACCESS.

708.1.4 CHANGES OF DIRECTION. WHERE A HORIZONTAL DRAINAGE PIPE, A BUILDING DRAIN OR A BUILDING SEWER HAS A CHANGE OF HORIZONTAL DIRECTION GREATER THAN 45 DEGREES (0.79 RAD), A CLEANOUT SHALL BE INSTALLED AT THE CHANGE OF DIRECTION. WHERE MORE THAN ONE CHANGE OF HORIZONTAL DIRECTION GREATER THAN 45 DEGREES (0.79 RAD) OCCURS WITHIN 40 FEET (12 192 MM) OF DEVELOPED LENGTH OF PIPING, THE CLEANOUT INSTALLED FOR THE FIRST CHANGE OF DIRECTION SHALL SERVE AS THE CLEANOUT FOR ALL CHANGES IN DIRECTION WITHIN THAT 40 FEET (12 192 MM) OF DEVELOPED LENGTH OF PIPING.

SANITARY DRAINAGE NOTES

413.1 APPROVAL, 413.2 FLOOR DRAINS & 413.3 SIZE OF FLOOR DRAINS. FLOOR DRAINS SHALL CONFORM TO ASME A112.3.1, ASME A112.6.3 OR CSA B79. TRENCH DRAINS SHALL COMPLY WITH ASME A112.6.3. FLOOR DRAINS SHALL HAVE REMOVABLE STRAINERS. THE FLOOR DRAIN SHALL BE CONSTRUCTED SO THAT THE DRAIN IS CAPABLE OF BEING CLEANED. ACCESS SHALL BE PROVIDED TO THE DRAIN INLET. READY ACCESS SHALL BE PROVIDED TO FLOOR DRAINS. FLOOR DRAINS SHALL HAVE A DRAIN OUTLET NOT LESS THAN 2 INCHES IN DIAMETER.

702.1 ABOVE-GROUND SANITARY DRAINAGE AND VENT PIPE. ABOVE-GROUND SOIL, WASTE AND VENT PIPE SHALL CONFORM TO THE STANDARDS LISTED IN TABLE 702.1.

702.2 UNDERGROUND BUILDING SANITARY DRAINAGE AND VENT PIPE. UNDERGROUND BUILDING SANITARY DRAINAGE AND VENT PIPE SHALL CONFORM TO THE STANDARDS LISTED IN TABLE 702.2.

702.3 BUILDING SEWER PIPE. BUILDING SEWER PIPE SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 702.3

702.4 FITTINGS. PIPE FITTINGS SHALL BE APPROVED FOR INSTALLATION WITH THE PIPING MATERIAL AND SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN TABLE 702.4.

702.7 LEAD BENDS AND TRAPS. THE WALL THICKNESS OF LEAD BENDS AND TRAPS SHALL BE NOT LESS THAN ⅛ INCH.

704.1 SLOPE OF HORIZONTAL DRAINAGE PIPING. HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES. THE SLOPE OF A HORIZONTAL DRAINAGE PIPE SHALL BE NOT LESS THAN THAT INDICATED IN TABLE 704.1 EXCEPT THAT WHERE THE DRAINAGE PIPING IS UPSTREAM OF A GREASE INTERCEPTOR, THE SLOPE OF THE PIPING SHALL BE NOT LESS THAN 1/4 INCH PER FOOT (2-PERCENT SLOPE).

TABLE 704.1
SLOPE OF HORIZONTAL DRAINAGE PIPE

SIZE (INCHES)	MINIMUM SLOPE (INCH PER FOOT)
2½ OR LESS	¼ a
3 TO 6	⅛ a
8 OR LARGER	1/16 a

a. Slopes for piping draining to a grease interceptor shall comply with Section 704.1.

903.1 ROOF EXTENSIONS. OPEN VENT PIPES THAT EXTEND THROUGH A ROOF SHALL BE TERMINATED NOT LESS THAN 18 INCHES ABOVE THE ROOF. WHERE A ROOF IS TO BE USED FOR ASSEMBLY OR AS A PROMENADE, OBSERVATION DECK, SUNBATHING DECK OR SIMILAR PURPOSES, OPEN VENT PIPES SHALL TERMINATE NOT LESS THAN 7 FEET ABOVE THE ROOF.

903.2 FROST CLOSURE. WHERE THE 97.5-PERCENT VALUE FOR OUTDOOR DESIGN TEMPERATURE IS 0°F (-18°C) OR LESS, VENT EXTENSIONS THROUGH A ROOF OR WALL SHALL BE NOT LESS THAN 3 INCHES (76 MM) IN DIAMETER. ANY INCREASE IN THE SIZE OF THE VENT SHALL BE MADE NOT LESS THAN 1 FOOT (305 MM) INSIDE THE THERMAL ENVELOPE OF THE BUILDING.

903.3 FLASHINGS. THE JUNCTURE OF EACH VENT PIPE WITH THE ROOF LINE SHALL BE MADE WATER TIGHT BY AN APPROVED FLASHING.

903.4 PROHIBITED USE. A VENT TERMINAL SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN A VENT TERMINAL.

903.5 LOCATION OF VENT TERMINAL. AN OPEN VENT TERMINAL FROM A DRAINAGE SYSTEM SHALL NOT BE LOCATED DIRECTLY BENEATH ANY DOOR, OPENABLE WINDOW, OR OTHER AIR INTAKE OPENING OF THE BUILDING OR OF AN ADJACENT BUILDING, AND ANY SUCH VENT TERMINAL SHALL NOT BE WITHIN 10 FEET HORIZONTALLY OF SUCH AN OPENING UNLESS IT IS 3 FEET OR MORE ABOVE THE TOP OF SUCH OPENING.

802.3 INSTALLATION. INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP OR AIR BREAK INTO A WASTE RECEPTOR. WASTE RECEPTORS SHALL BE TRAPPED AND VENTED AND SHALL CONNECT TO THE BUILDING DRAINAGE SYSTEM. INDIRECT WASTE PIPING THAT EXCEEDS 30 INCHES (762 MM) IN DEVELOPED LENGTH MEASURED HORIZONTALLY, OR 54 INCHES (1372 MM) IN TOTAL DEVELOPED LENGTH, SHALL BE TRAPPED.

EXCEPTION: WHERE A WASTE RECEPTOR RECEIVES ONLY CLEARWATER WASTE AND DOES NOT DIRECTLY CONNECT TO A SANITARY DRAINAGE SYSTEM, THE RECEPTOR SHALL NOT REQUIRE A TRAP.

802.3.1 AIR GAP. THE AIR GAP BETWEEN THE INDIRECT WASTE PIPE AND THE FLOOD LEVEL RIM OF THE WASTE RECEPTOR SHALL NOT BE LESS THAN TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE.

802.3.2 AIR BREAK. AN AIR BREAK SHALL BE PROVIDED BETWEEN THE INDIRECT WASTE PIPE AND THE TRAP SEAL OF THE WASTE RECEPTOR.

802.4 WASTE RECEPTORS. FOR OTHER THAN HUB DRAINS THAT RECEIVE ONLY CLEAR-WATER WASTE AND STANDPIPES, A REMOVABLE STRAINER OR BASKET SHALL COVER THE OUTLET OF WASTE RECEPTORS. WASTE RECEPTORS SHALL NOT BE INSTALLED IN CONCEALED SPACES. WASTE RECEPTORS SHALL NOT BE INSTALLED IN PLENUMS, CRAWL SPACES, ATTICS, INTERSTITIAL SPACES ABOVE CEILINGS AND BELOW FLOORS. READY ACCESS SHALL BE PROVIDED TO WASTE RECEPTORS.

802.4.2 HUB DRAINS. A HUB DRAIN SHALL BE IN THE FORM OF A HUB OR A PIPE EXTENDING NOT LESS THAN 1 INCH ABOVE A WATER-IMPERVIOUS FLOOR.

802.4.3 STANDPIPES. STANDPIPES SHALL BE INDIVIDUALLY TRAPPED. STANDPIPES SHALL EXTEND NOT LESS THAN 18 INCHES BUT NOT GREATER THAN 42 INCHES ABOVE THE TRAP WEIR. ACCESS SHALL BE PROVIDED TO STANDPIPES AND DRAINS FOR RODDING.

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