

- DRAWING LIST:**
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  - P-3 PLUMBING SPECIALTY SCHEDULE
  - P-4 FIRST FLOOR DOMESTIC WATER PLAN
  - P-5 MEZZANINE DOMESTIC WATER PLAN
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  - P-11 DOMESTIC WATER RISER DIAGRAM
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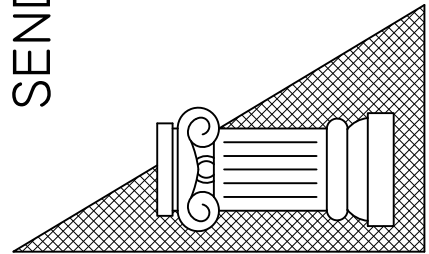
- SCOPE OF WORK:**  
THIS INSTALLATION SHALL CONFORM WITH THE 2020 NYSECC, 2020 NYSBC, 2020 NYSPC, 2020 NYSFGC. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR PAY FOR AND OBTAIN ALL FILINGS, APPROVALS, PERMITS AND SIGNOFFS FOR THIS PROJECT.
- THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTAL ALL ITEMS NOTED BELOW AND WITHIN THESE DRAWINGS.**
- A NEW 2" DOMESTIC WATER SERVICE INCLUDING THE STREET CONNECTION, BACKFLOW PREVENTION, INSULATED & HEATED HOT BOX ENCLOSURE, ALL FIXTURES, EQUIPMENT, PIPING AND INSULATION.
  - (2) HOT WATER SYSTEMS WHICH WILL INCLUDE (2) TANK-TYPE NATURAL GAS FIRED WATER HEATERS, (3) INSULATED RE-CIRCULATION LINES, BALANCING VALVES AND (3) PUMPS WITH TIMERS.
  - CONNECTION OF NEW SANITARY PIPING TO AN EXISTING SERVICE.
  - A NEW 6" INCOMING FIRE SPRINKLER SERVICE INCLUDING THE STREET CONNECTION, DOUBLE CHECK DETECTOR VALVE AT HOT BOX, PIPING UP TO AND INCLUDING THE HOUSE CONTROL VALVE INSIDE THE BUILDING. REFERENCE FIRE SERVICE DESIGN NOTES WITHIN SPRINKLER DRAWINGS.
  - A NEW NATURAL GAS SERVICE. THE SERVICE WILL PROVIDE GAS TO (2) WATER HEATERS, AN EXISTING KITCHEN COOKLINE, (1) MAKE-UP-AIR UNIT (ADD/ALT), (2) BOILERS, (1) DOMESTIC CLOTHES DRYER, (1) BACKUP GENERATOR AND (4) PACKAGED ROOFTOP UNITS.
  - THE REPLACEMENT OF AN EXISTING AIR COMPRESSOR.
  - ALL EXISTING GAS PIPING AND SERVICE IS TO BE REMOVED UNLESS NOTED OTHERWISE.
  - COORDINATE SEPARATION OF ALL UNDERGROUND UTILITIES WITH RESPECTIVE AUTHORITY PRIOR TO WORK BEING PERFORMED.
  - ALL MECHANICAL EQUIPMENT CONDENSATE PIPING TO INDIRECT DRAINS.
  - CONCRETE PADS FOR TANK-TYPE WATER HEATERS.
  - 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.
  - ALL EXISTING DOMESTIC WATER PIPING IS TO REMAIN UNLESS NOTED OTHERWISE.
  - ALL EXISTING SANITARY PIPING, VENTING AND GREASE WASTE PIPING IS TO REMAIN UNLESS NOTED OTHERWISE.
  - IN AREAS TO BE DEMOLISHED, ALL PLUMBING BRANCH PIPING (SANITARY/VENTING/HOT/COLD) SHALL BE REMOVED FROM THEIR RESPECTIVE MAINS.
  - ALTERNATE:** PROVIDE CONDENSATE PUMP AND PIPING TO INDIRECT DRAIN FOR AHU-2.
  - ALTERNATE:** REPLACE THE EXISTING KITCHEN COOKLINE GAS RISER WITH A 3" PIPE WITH AUTOMATIC EMERGENCY SHUT-OFF VALVE. PROVIDE ADDITIONAL 2" PIPING FROM NEW 3" RISER TO NEW MAU-1 ON ROOF. EXTERIOR PIPE SHALL BE GALVANIZED AND SUPPORTED OFF OF THE ROOF SURFACE.

**1 PLUMBING SITE PLAN**  
P-1 1" = 30'-0"  
1"=30'-0" 30' 0 30 60

DATE: 04-21-21  
ISSUE: ISSUED FOR BIDDING

SEAL:

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



**HARRISON FIRE DEPT.**  
PROPOSED ADDITION  
206 HARRISON AVE  
HARRISON, NY 10528  
**PLUMBING**  
**SITE PLAN**

PROJECT #: 2020-04

DRAWN BY: SEND. ARCH.

CAD FILE: P/2020/HFD  
2020-04

DRAWING#:

**P-1**

WC FLOOR MOUNTED WATER CLOSET		DF/BF DRINKING FOUNTAIN/BOTTLE FILL	
<u>FIXTURE</u>	FLOOR MOUNTED 10" ROUGHING WATER SAVER (1.5 GPF) WHITE VITREOUS CHINA , ELONGATED BOWL, SIPHON JET, 1 1/2" TOP SPUD, AMERICAN STANDARD "MADERA" MODEL NO. 2234.015 OR EQUAL. MTG. HT= 14–1/8" COLOR BY ARCHITECT.	<u>FIXTURE</u>	ELKAY ENHANCED EZH2O BOTTLE FILLING STATION & BI-LEVEL ADA COOLER ELKAY MODEL . LZ5TLBWSLP
<u>SEAT</u>	WHITE, OPEN FRONT, OLSONITE MODEL NO. 95 OR EQUAL.	<u>TRAP</u> -	1 1/2" CHROME PLATED "P"-TRAP , TRAP NIPPLE AND ESCUTCHEON PLATE.
<u>FLUSH VA</u>	MANUAL FLUSH VALVE, 1.28 GPF, TOP SPUD CONNECTION, 1" SUPPLY CONNECTION, DIAPHRAGM VALVE, DUAL-FILTERED FIXED BYPASS DIAPHRAGM SLOAN MODEL 111-1.28	<u>SUPPLY</u> -	CHROME PLATED 1/2" NIPPLES AND ESCUTCHEONS WITH 1/2" ANGLE
		<u>SUPPORT</u>	ELKAY MLP200 IN-WALL CARRIER
WC FLOOR MOUNTED WATER CLOSET (ADA)		MOP MOP SINK	
<u>FIXTURE</u>	FLOOR MOUNTED, 10" ROUGHING, 17" HIGH FOR HANDICAPPED WATER SAVER (1.6 GPF) WHITE VITREOUS CHINA, ELONGATED BOWL, SIPHON JET, 11/2" TOP SPUD, AMERICAN STANDARD "MADERA" MODEL NO. 3043.102 OR EQUAL COLOR BY ARCHITECT.	<u>FIXTURE</u>	TERRAZZO, SQUARE DROP FRONT MOP RECEPTOR, 12" HIGH AND 1-3/4" WIDE SHOULDER, GALVANIZED BONDERIZED STEEL FLANGE WILL BE CAST INTEGRAL AND EXTEND AT LEAST 1" ABOVE SHOULDER ON TWO (2) SIDES, 3" DRAIN, STAINLESS 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 NO. 60LH-24"x24"-12"
<u>SEAT</u>	WHITE, OPEN FRONT, OLSONITE MODEL NO. 95 OR EQUAL.	<u>STRAINER</u>	DOME TYPE CHROME PLATED FLORESTONE OR EQUAL MODEL NO. MR-376
<u>FLUSH VA</u>	MANUAL FLUSH VALVE, 1.28 GPF, TOP SPUD CONNECTION, 1" SUPPLY CONNECTION, DIAPHRAGM VALVE, DUAL-FILTERED FIXED BYPASS DIAPHRAGM SLOAN MODEL 111-1.28	<u>MOP HANGER</u>	WALL MOUNTED WITH 3 CLAMPS FLORESTONE OR EQUAL MODEL NO. MR-372
		<u>HOSE</u>	3/8" HOSE FIVE FEET LONG WITH CLAMP FLORESTONE OR EQUAL MODEL NO. MR-370
<u>URNL URINALS</u>		<u>SUPPLY</u>	1/2" NPT SWEAT TYPE, CHROME PLATED WITH STOP VALVES.
<u>FIXTURE</u>	BARRIER FREE, WALL HUNG VITREOUS CHINA, ULTRA HIGH EFFICIENCY 0.125 GPF - 1.0 GPF, ELONGATED 14" RIM, WASHOUT FLUSH ACTION, 3/4" INLET SPUD, AND 2" THREADED NPTF OUTLET CONNECTION. AMERICAN STANDARD OR EQUAL "WASHBROOK" MODEL NO. 6590.001 COLOR BY ARCHITECT	<u>FAUCET</u>	ROUGH CHROME PLATED CAST BRASS, 1/4 TURN CERAMIC CARTRIDGES, VANDAL-RESISTANT FOUR ARM HANDLES WITH COLOR CODED INDEXES. CAST BRASS NOZZLE WITH 3/4" HOSE THREAD, PAIL HOOK AND TOP BRACE. BRASS VACUUM BREAKER, BRASS TOP BRACE ASSEMBLY WITH ADJUSTABLE THREADED BRASS WALL FLANGE, & 1/2"NPTF INLETS. SPEAKMAN OR EQUAL MODEL NO SC-5811-RCP
<u>FLUSH VALVE</u>	0.5 GPF, POLISHED CHROME, MANUAL FLUSHOMETER, DIAPHRAGM VALVE, SEMI-RED BRASS VALVE BODY, TOP SPUD CONNECTION, 11.5" ROUGH IN, 0.75" SPUD COUPLING, 0.75" SUPPLY, ADA COMPLIANT, ANSI/ASME 112.19.2 MODEL SLOAN 186-0.5-DFB		
<u>SUPPORT</u>	DUCC CAST IRON, WALL HANGER WITH BOTTOM BEARING PLATE JR SMITH OR EQUAL MODEL NO. 0637		
LAV WALLMOUNT LAVATORY (ADA)		EYE WASH STATION (AT APP BAY)	
<u>FIXTURE</u>	AMERICAN STANDARD ADA COMPLIANT LUCERNE WALL MOUNTED LAVATORY SINK MODEL 0356.028.020	<u>FIXTURE</u>	ULINE MODEL H-5795
<u>TRAP</u>	1 1/4" CHROME PLATED "P" - TRAP, TRAP NIPPLE AND ESCUTCHEON PLATE.	<u>TRAP</u> -	1 1/4" CHROME PLATED "P" - TRAP, TRAP NIPPLE AND ESCUTCHEON PLATE.
<u>SUPPLY</u>	3/8" NIPPLES AND ESCUTCHEONS WITH 3/8" ANGLE STOPS.	<u>SUPPLY</u> -	1/2" NIPPLES AND ESCUTCHEONS WITH 3/8" ANGLE STOPS.
<u>FAUCET</u>	ADA COMPLIANT, POLISHED CHROME, 4" CENTERSET, AMERICAN STANDARD RUMSON MODEL 7417201.002		
<u>SUPPORT</u>	FLOOR MOUNTED TYPE SUPPORT JR SMITH OR EQUAL FIGURE NO. 0700-27-M31		
LAV WALLMOUNT LAVATORY		SINK	
<u>FIXTURE</u>	AMERICAN STANDARD LUCERNE WALL MOUNTED LAVATORY SINK MODEL 0356.028.020	<u>FIXTURE</u>	SINGLE COMPARTMENT 24"Lx18"Wx7-5/8"DEEP BOWL,COUNTERTOP 18 GAUGE TYPE 304 18-8 NICKEL BEARING STAINLESS STEEL, SELF RIMMING, COVE CORNERS 1-3/4" VERTICAL AND HORIZONTAL RADIUS, BOWL AND FAUCET DECK RECESS 3/8" BELOW OUTSIDE EDGE OF SINK, FULLY COATED UNDERSIDE TO DAMPEN SOUND AND PREVENT CONDENSATE, AND FOUR (4) 1-3/8" FAUCET HOLES @ 4" CENTERS. ELKAY OR EQUAL "LUSTERTONE" MODEL NO. 1716
<u>TRAP</u>	1 1/4" CHROME PLATED "P" - TRAP, TRAP NIPPLE AND ESCUTCHEON PLATE.	<u>SUPPLY</u>	3/8" OD COMPRESSION TYPE FITTINGS WITH CHROME PLATED STOP VALVES.
<u>SUPPLY</u>	3/8" NIPPLES AND ESCUTCHEONS WITH 3/8" ANGLE STOPS.	<u>TRAP</u>	1-1/2" TAILPIECE & ESCUTCHEON CHROME PLATED
<u>FAUCET</u>	POLISHED CHROME, 4" CENTERSET, AMERICAN STANDARD RUMSON MODEL 7417201.002	<u>FAUCET</u>	ADA COMPLIANT, DUAL HANDLE MIXING FAUCET ON DECK MOUNTED ESCUTHEON. 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 1/2" IP CONNECTIONS. FLOW RATE 2.5 GPM MAX. @ 80 PSI. ELKAY OR EQUAL MODEL NO. LK2443.
<u>SUPPORT</u>	FLOOR MOUNTED TYPE SUPPORT JR SMITH OR EQUAL FIGURE NO. 0700-27-M31	<u>HANDLES</u>	CHROME PLATED WRIST BLADE TYPE "AMARILLIS SERIES" AMERICAN STANDARD OR EQUAL MODEL NO. 172H
<u>GWSH-1 GEAR WASHER (PURCHASED BY OWNER INSTALLED BY PLUMBER)</u>		SPOS-1 ELEVATOR SUMP PUMP	
<u>DESCRIPTION:</u>	25 LB CAPACITY GEAR WASHER EXTRACTOR OVERALL SIZE 29"W x 36.31"D x 43.19"H,HIGH, WATER VALVES 0.75", DRAIN VALVE 2". SINGLE MOTOR DRIVE- 1 HP. MFG. MILNOR MODEL NO. MWT12J5	<u>DESCRIPTION:</u>	1/3 HP, 115V, SINGLE-PHASE, 5.2 FULL LOAD AMPS, THERMAL OVERLOAD TEMP 221°F, 1 1/2" 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"
<u>WSHR STACKED WASHING MACHINE/DRYER</u>		ONDS-1 CONDENSATE PUMP	
<u>DESCRIPTION:</u>	SINGLE UNIT LG WASHTOWER WITH CENTER CONTROL. MODEL NO. WKEX200HBA	<u>DESCRIPTION:</u>	EXTERNAL TEST/RUN LEVER, SLIM FOOTPRINT, VERTICAL CENTRIFUGAL PUMP DESIGN, STAINLESS STEEL MOTOR SHAFT, AUTO START AND STOP OPERATION, OVERFLOW DETECTION SWITCH, 115V/1PH/1.5A, 1/80 H.P. LITTLE GIANT MODEL VCMX-200LS
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.			

SEAL:

PROJECT #: 2020-04

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CAD FILE: P/2020/HFD  
2020-04

DRAWING#:

P-2

SPECIALTY SCHEDULE

CO - 1 FLOOR CLEANOUT

DESCRIPTION: ROUND DECK PLUG, 4-3/4"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

CO - 3 FLOOR CLEANOUT

DESCRIPTION: 8-3/4" DIAMETER DUCO CAST IRON SECURED COVER, DOUBLE FLANGED HOUSING WITH HEAVY DUTY SECURED SCORIATED COVER WITH LIFTING DEVICE, CLOSURE PLUG AND INSIDE CAULKED OUTLET. CLEANOUT SHALL BE INSTALLED IN NON-SURFACED, CONCRETE, OR ASPHALT PAVED AREAS. JR SMITH OR EQUAL FIGURE NO. 4256C

CO - 4 FLOOR CLEANOUT

DESCRIPTION: USED FOR TERRAZZO AND SIMILAR POURED FLOORS, RECESS IN COVER IS FILLED WITH THE FLOOR MATERIAL. DUCO CAST IRON CLEANOUT 5 3/4" DIAMETER COVER, ADJUSTABLE SECURED NICKEL BRONZE TOP WITH 1/2" TERRAZZO RECESS. MANUFACTURED BY JAY R. SMITH FIGURE NO. 4185 C.

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.

FD-2 FLOOR DRAIN

DESCRIPTION: 14 GAUGE TYPE 304 STAINLESS STEEL RECEPTOR BODY, WITH SEEPAGE CONTROL HOLES, 10-1/2" SQUARE NICKEL BRONZE RIM AND SECURED RIM GRATE WITH 1/2" SQUARE HOLES. SEDIMENT BUCKET, DEEP SEAL TRAP AND NO-HUB OUTLET. JR SMITH OR EQUAL FIGURE NO. 3007NB

FD-3 FLOOR DRAIN

DESCRIPTION: DUCO CAST IRON BODY, HEAVY DUTY WIDE WITH FLASHING COLLAR 8-3/4" DIAMETER HEAVY DUTY TRACTOR GRATE, CAULKED OUTLET, VANDAL PROOF, AND DEEP SEAL TRAP WITH DOME BOTTOM STRAINER, MANUFACTURED BY JAY R. SMITH OR EQUAL FIGURE NO. 2614C-DBS-U

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.

FN - 2 FUNNEL DRAIN

DESCRIPTION: 4"x8" RECTANGULAR INDIRECT SHALLOW WASTE RECEPTOR CAST IRON, WITH ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM, LESS GRATE & FLANGE, CAULKED OUTLET, AND ALUMINUM DOME BOTTOM STRAINER. JAY R. SMITH OR EQUAL MODEL NO. 3305C-11

FS - 1 FLOOR SINK

DESCRIPTION: 10" DEEP CAST IRON FLANGED RECEPTOR WITH ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM AND SECURED ONE HALF 12" SQUARE GRATE, ALUM. SEDIMENT BUCKET AND DEEP SEAL TRAP. MANUFACTURED BY JAY R. SMITH OR EQUAL FIGURE NO. 3131-C-12

FS - 2 FLOOR SINK

DESCRIPTION: 10" DEEP CAST IRON FLANGED RECEPTOR WITH ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM AND LESS 12" SQUARE GRATE, ALUM. DOME BOTTOM STRAINER AND DEEP SEAL TRAP. MANUFACTURED BY JAY R. SMITH OR EQUAL FIGURE NO. 3130-C-11

RD - 1 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

WH WALL HYDRANT

DESCRIPTION: KEY OPERATED FROST PROOF, BRONZE NICKEL PLATED, QUARTER TURN NON-FREEZE HYDRANT WITH HOSE CONNECTION, VACUUM BREAKER, 3/4" NPT INLET, "T" HANDLE KEY, & STAINLESS STEEL BOX WITH FULL 180° COVER OPENING. JR. SMITH OR EQUAL FIGURE NO. 5509QT

HB 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

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.-3/4", 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

EJP-1 SEWAGE EJECTION PUMP

DESCRIPTION: LITTLE GIANT PIT+PLUS SR. MODEL 9SF2VDA1

P-1, 2 & 3 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 006ø3LC

TCV-1 DOMESTIC 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 AS NOTED. CONBRACO OR EQUAL MODEL NO. 34C SERIES.

DCDA - 1 DOUBLE CHECK DETECTOR ASSEMBLY (SPRINKLER SERVICE)

DESCRIPTION: THE UNIT SHALL BE A COMPLETE ASSEMBLY INCLUDING UL LISTED RESILIENT SEATED OSY SHUTOFF VALVES AND TEST COCKS. THE UNIT SHALL BE UL/FM APPROVED WITH UL/FM APPROVED OSY SHUTOFF VALVES. THE AUXILIARY LINE SHALL CONSIST OF AN APPROVED BACKFLOW PREVENTER AND WATER METER. THE ASSEMBLY SHALL MEET THE BASIC REQUIREMENTS OF ASSE 1048; AWWA STD. C510FOR DOUBLE CHECK VALVES. EPOXY COATED CAST IRON BODY, BRONZE SEAT, BRONZE DISC HOLDER, STAINLESS STEEL TRIM, RUBBER CHECK VALVE DISCS, BRINZE TEST COCKS, 33°F - 110°F CONTINUOUS, 140°F INTERMITTENT, 175 PSI MAX WORKING PRESSURE. MODEL SHALL BE WATTS 6" 709DCDA.

RPZ - 1 REDUCED PRESSURE ZONE VALVE 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 AND STAINLESS STEEL BOLTS. BODY AND SHUTOFFS SHALL BE CONSTRUCTED USING LEAD FREE CAST COPPER SILICON ALLOY MATERIALS, RELIEF VALVE WITH STAINLESS STEEL SEAT AND TRIM, WITH A MAXIMUM PRESSURE RATING OF 175 PSI AND A TEMPERATURE RANGE OF 33 DEG. F.-180 DEG. F THE ASSEMBLY SHALL ALSO INCLUDE TWO RESILIENT SEATED BALL ISOLATION VALVES, AND FOUR RESILIENT SEATED BALL VALVE TEST COCKS. THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF: USC; ASSE STD. 1013; AWWA STD. C511; CSA B64.4. WATTS REGULATOR OR EQUAL MODEL NO. LF009QT-FDA.

EXPTK- 1 DOMESTIC HOT WATER EXPANSION TANK

DESCRIPTION: 2.0 GALLON, 8"ø x14" HIGH PRE-CHARGED HYDROPNEUMATIC STEEL EXPANSION TANK. THE TANK CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION VIII OF THE ASME BOILER AND PRESSURE VESSEL CODE,WITH ALL WELDS CONFORMING TO ASME SECTION IX. THE TANK MUST BE STAMPED WITH A MAXIMUM WORKING PRESSURE OF 150 PSI AND A MAXIMUM WORKING TEMPERATURE OF 200°F. ALL INTERNAL WETTED PARTS MUST COMPLY WITH FDA REGULATIONS AND APPROVALS. AN INTERNAL BUTYL DIAPHRAGM WILL BE USED TO ISOLATE AIR CHARGE FROM WATER. AMTROL "THERM-X-TROL"MODEL NO. ST-5C OR EQUAL.

EXPTK- 2 DOMESTIC HOT WATER EXPANSION TANK

DESCRIPTION: 4.7 GALLON, 12"ø x12-1/2" HIGH PRE-CHARGED HYDROPNEUMATIC STEEL EXPANSION TANK. THE TANK CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION VIII OF THE ASME BOILER AND PRESSURE VESSEL CODE,WITH ALL WELDS CONFORMING TO ASME SECTION IX. THE TANK MUST BE STAMPED WITH A MAXIMUM WORKING PRESSURE OF 150 PSI AND A MAXIMUM WORKING TEMPERATURE OF 200°F. ALL INTERNAL WETTED PARTS MUST COMPLY WITH FDA REGULATIONS AND APPROVALS. AN INTERNAL BUTYL DIAPHRAGM WILL BE USED TO ISOLATE AIR CHARGE FROM WATER. AMTROL "THERM-X-TROL"MODEL NO. ST-12C OR EQUAL.

WH- 1 DOMESTIC HOT WATER HEATER (NATURAL GAS)

DESCRIPTION: NATURAL GAS WATER HEATER SHALL BE A. O. SMITH CYCLONE MXI MODEL # BTH-120 OR EQUAL, MINIMUM 95% THERMAL EFFICIENCY, A STORAGE CAPACITY OF 60 GALLONS, AN INPUT RATING OF 120,000 BTUS PER HOUR, A RECOVERY RATING OF 154 GALLONS PER HOUR (GPH) AT 90°F RISE AND A MAXIMUM HYDROSTATIC WORKING PRESSURE OF 160 PSI. WATER HEATER(S) SHALL: 1. MODULATING GAS BURNER THAT AUTOMATICALLY ADJUSTS THE INPUT BASED ON DEMAND; 2. POWERED ANODES THAT ARE NON SACRIFICIAL AND MAINTENANCE FREE; 3. HAVE SEAMLESS GLASS-LINED STEEL TANK CONSTRUCTION, WITH GLASS LINING APPLIED TO ALL WATER-SIDE SURFACES AFTER THE TANK HAS BEEN ASSEMBLED AND WELDED; 4. MEETS THE THERMAL EFFICIENCY AND/OR STANDBY LOSS REQUIREMENTS OF THE U. S. DEPARTMENT OF ENERGY AND CURRENT EDITION OF ASHRAE/IES 90.1; 5. HAVE FOAM INSULATION AND A CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE; 6. HAVE A DOWN-FIRED POWER BURNER DESIGNED FOR PRECISE MIXING OF AIR AND GAS FOR OPTIMUM EFFICIENCY, REQUIRING NO SPECIAL CALIBRATION ON START-UP; 7. BE APPROVED FOR 0" CLEARANCE TO COMBUSTIBLES. THE 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. NO CHARGE CONNECTIVITY SHALL BE PROVIDED ALLOWING FOR REMOTE VIEWING AND FAULT NOTIFICAION VIA APP. 1. ALL MODELS ARE DESIGN CERTIFIED BY UNDERWRITERS LABORATORIES (UL), INC., ACCORDING TO ANSI Z21.10.3 - CSA 4.3 STANDARDS GOVERNING STORAGE TYPE WATER HEATERS; 2. MEET THE THERMAL EFFICIENCY AND STANDBY LOSS REQUIREMENTS OF THE U. S. DEPARTMENT OF ENERGY AND CURRENT EDITION ASHRAE/IES 90.1. COMPLIES WITH SCAQMD RULE 1146.2 AND OTHER AIR QUALITY MANAGEMENT DISTRICTS WITH SIMILAR REQUIREMENTS FOR LOW NOX EMISSIONS.

WH-2 DOMESTIC HOT WATER HEATER (NATURAL GAS)

DESCRIPTION: NATURAL GAS WATER HEATER SHALL BE A. O. SMITH CYCLONE MXI MODEL # BTH-150 OR EQUAL, MINIMUM 95% THERMAL EFFICIENCY, A STORAGE CAPACITY OF 100 GALLONS, AN INPUT RATING OF 150,000 BTUS PER HOUR, A RECOVERY RATING OF 198 GALLONS PER HOUR (GPH) AT 90°F RISE AND A MAXIMUM HYDROSTATIC WORKING PRESSURE OF 160 PSI. WATER HEATER(S) SHALL: 1. MODULATING GAS BURNER THAT AUTOMATICALLY ADJUSTS THE INPUT BASED ON DEMAND; 2. POWERED ANODES THAT ARE NON SACRIFICIAL AND MAINTENANCE FREE; 3. HAVE SEAMLESS GLASS-LINED STEEL TANK CONSTRUCTION, WITH GLASS LINING APPLIED TO ALL WATER-SIDE SURFACES AFTER THE TANK HAS BEEN ASSEMBLED AND WELDED; 4. MEETS THE THERMAL EFFICIENCY AND/OR STANDBY LOSS REQUIREMENTS OF THE U. S. DEPARTMENT OF ENERGY AND CURRENT EDITION OF ASHRAE/IES 90.1; 5. HAVE FOAM INSULATION AND A CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE; 6. HAVE A DOWN-FIRED POWER BURNER DESIGNED FOR PRECISE MIXING OF AIR AND GAS FOR OPTIMUM EFFICIENCY, REQUIRING NO SPECIAL CALIBRATION ON START-UP; 7. BE APPROVED FOR 0" CLEARANCE TO COMBUSTIBLES. THE 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. NO CHARGE CONNECTIVITY SHALL BE PROVIDED ALLOWING FOR REMOTE VIEWING AND FAULT NOTIFICAION VIA APP. 1. ALL MODELS ARE DESIGN CERTIFIED BY UNDERWRITERS LABORATORIES (UL), INC., ACCORDING TO ANSI Z21.10.3 - CSA 4.3 STANDARDS GOVERNING STORAGE TYPE WATER HEATERS; 2. MEET THE THERMAL EFFICIENCY AND STANDBY LOSS REQUIREMENTS OF THE U. S. DEPARTMENT OF ENERGY AND CURRENT EDITION ASHRAE/IES 90.1. COMPLIES WITH SCAQMD RULE 1146.2 AND OTHER AIR QUALITY MANAGEMENT DISTRICTS WITH SIMILAR REQUIREMENTS FOR LOW NOX EMISSIONS.

AIR COMPRESSOR

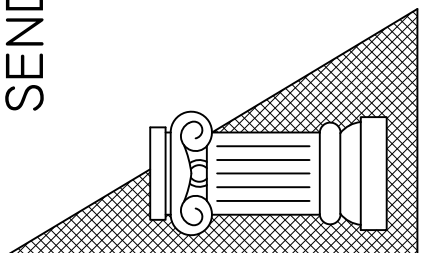
DESCRIPTION: INGERSOLL-RAND 2475N5-P. 80 GALLON 7.5 H.P. AIR COMPRESSOR

DATE: ISSUE

04-21-21  
ISSUED FOR BIDDING

SEAL:

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



HARRISON FIRE DEPT.

PROPOSED ADDITION

206 HARRISON AVE  
HARRISON, NY 10528

PLUMBING  
SPECIALTY SCHEDULE

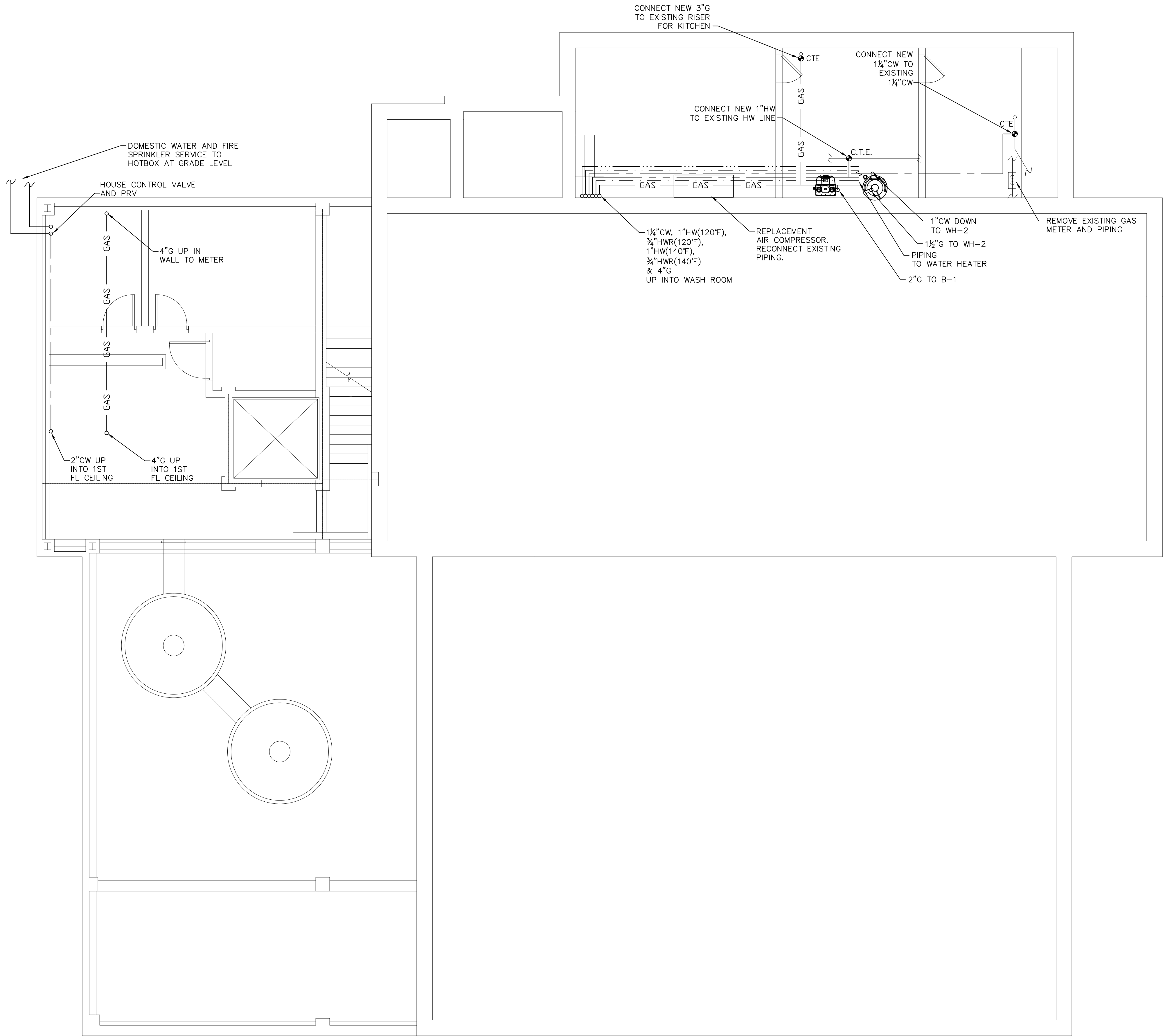
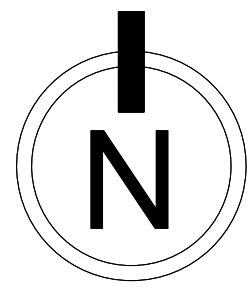
PROJECT #: 2020-04

DRAWN BY: SEND. ARCH.

CAD FILE: P/2020/HFD  
2020-04

DRAWING#:

P-3



SYMBOL LEGEND			
---	COLD WATER LINE		GAS VALVE & SEDIMENT TRAP
---	HOT WATER LINE (120°)		THERMOMETER
---	HOT WATER LINE (140°)		HB HOSE BIB
---	HOT WATER RECIRC (120°)		BV BALANCING VALVE
---	HOT WATER RECIRC (140°)		F.D. FLOOR DRAIN
---	GAS		ISOLATION VALVE
● CTE	CONNECT TO EXISTING		WHA-1 WATER HAMMER ARRESTOR

- 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 2020 NYSECC.
  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 2020 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. AS PER SECTION C408.2.2 OF THE 2020 NYSECC.
  9. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION 308 OF THE 2020 NYSFC.
  10. ALL FIXTURE WATER SUPPLY PIPES SHALL MEET THE MINIMUM SIZE REQUIREMENTS OF TABLE 604.5 OF THE 2020 NYSFC.
  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 2014 NYSFC.
  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. 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.
  22. ACCESS SHALL BE PROVIDED TO ALL FULLOPEN VALVES AND SHUTOFF VALVES.
  23. PROVIDE A SLEEVE FOR PIPING PROTECTION. TYPICAL OF ALL PIPE PENETRATIONS THROUGH THE FOUNDATION WALL. SEE DETAILS FOR SPECIFIC APPLICATIONS.
  24. PLUMBING CONTRACTOR TO INCLUDE THE 4" INCOMING FIRE SPRINKLER SERVICE UP TO AND INCLUDING THE DOUBLE CHECK DETECTOR VALVE AND HOUSE CONTROL VALVE SPECIFIED ON THE FIRE SPRINKLER PLANS.
  25. THE DOMESTIC WATER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH SECTION 312 OF THE 2020 NYSFC.



DATE: ISSUE

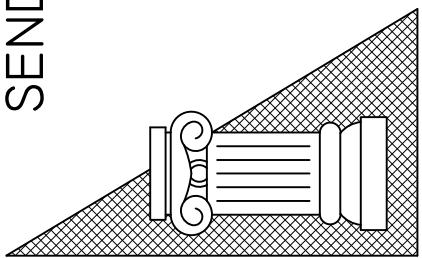
04-21-21  
ISSUED FOR BIDDING

SEAL:

SENDEWSKI ARCHITECTS PC  
ARCHITECTS - PLANNERS

215 ROANOKE AVENUE  
RIVERHEAD, NY 11901  
(631) 727-5352

9 SELENA COURT  
WALDEN, NY 12586  
(845) 275-8859



HARRISON FIRE DEPT.  
PROPOSED ADDITION  
206 HARRISON AVE  
HARRISON, NY 10528

BASEMENT FLOOR  
DOMESTIC WATER PLAN

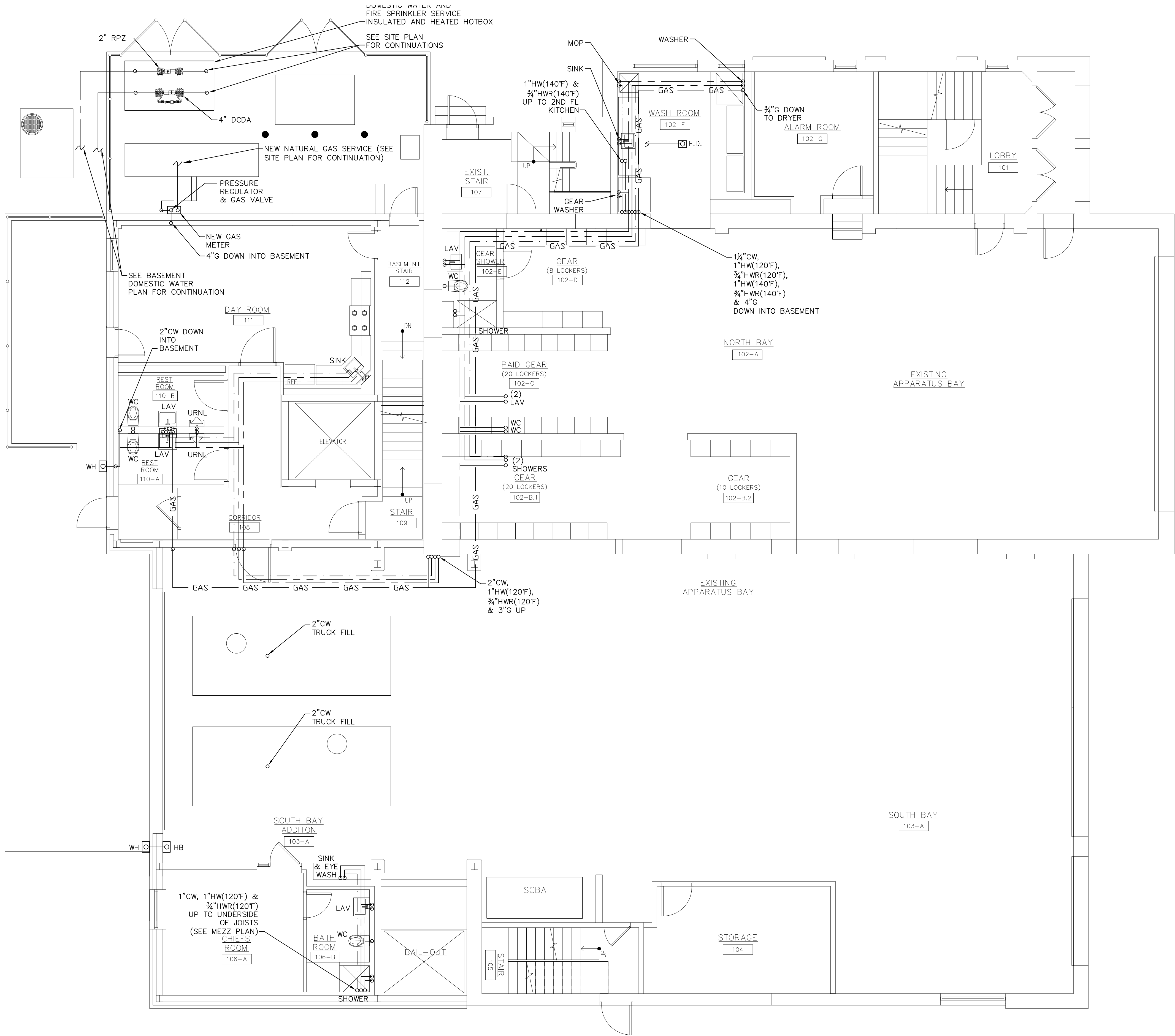
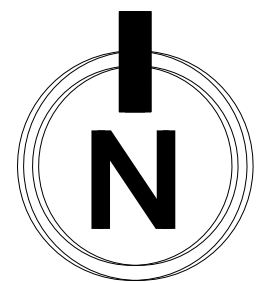
PROJECT #: 2020-04

DRAWN BY: SEND. ARCH.

CAD FILE: P/2020/HFD  
2020-04

DRAWING#:

P-4



1 FIRST FLOOR DOMESTIC WATER PLAN  
P-5 3/16" = 1'-0"

3/16"=1'-0" 5' 0 5 10

SYMBOL LEGEND			
---	COLD WATER LINE	⌋	GAS VALVE & SEDIMENT TRAP
---	HOT WATER LINE (120°)	⌋	THERMOMETER
---	HOT WATER LINE (140°)	⌋	HB HOSE BIB
---	HOT WATER RECIRC (120°)	⌋	BV BALANCING VALVE
---	HOT WATER RECIRC (140°)	⌋	F.D. FLOOR DRAIN
---	GAS	⌋	ISOLATION VALVE
---	NAT. GAS PIPING	⌋	WATER HAMMER ARRESTOR
●	CTE CONNECT TO EXISTING		

- 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 2020 NYSECC.
  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 2020 NYSGC.
  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. AS PER SECTION C408.2.2 OF THE 2020 NYSECC.
  9. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION 308 OF THE 2020 NYSPC.
  10. ALL FIXTURE WATER SUPPLY PIPES SHALL MEET THE MINIMUM SIZE REQUIREMENTS OF TABLE 604.5 OF THE 2020 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 2014 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. SERVICE AND HOSE BIBS VALVES SHALL BE IDENTIFIED. ALL OTHER VALVES INSTALLED IN LOCATIONS THAT ARE NOT ADJACENT TO THE FIXTURE OR APPLIANCE SHALL BE IDENTIFIED, INDICATING THE FIXTURE OR APPLIANCE SERVED.
  22. ACCESS SHALL BE PROVIDED TO ALL FULLOPEN VALVES AND SHUTOFF VALVES.
  23. THE DOMESTIC WATER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH SECTION 312 OF THE 2020 NYSPC.
  24. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS.
  25. PROVIDE GLOBE VALVES FOR TRUCK FILLS. INCLUDE HOSE CONNECTOR.
  27. A FLUSHING DEVICE SHALL NOT SERVE MORE THAN ONE FIXTURE.
  28. PROVIDE BALANCING VALVES ON HOT WATER RE CIRCULATION LINES TO EACH BATHROOM AREA.
  29. 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.
  30. PLUMBING CONTRACTOR TO INCLUDE THE 6" INCOMING FIRE SPRINKLER SERVICE UP TO AND INCLUDING THE DOUBLE CHECK DETECTOR VALVE AND HOUSE CONTROL VALVE SPECIFIED ON THE FIRE SPRINKLER PLANS.

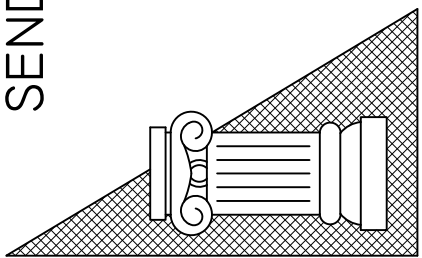
DATE: ISSUE

04-21-21  
ISSUED FOR BIDDING

SEAL:

SENDEWSKI ARCHITECTS PC  
ARCHITECTS - PLANNERS

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



HARRISON FIRE DEPT.

PROPOSED ADDITION

206 HARRISON AVE  
HARRISON, NY 10528

FIRST FLOOR

DOMESTIC WATER PLAN

PROJECT #: 2020-04

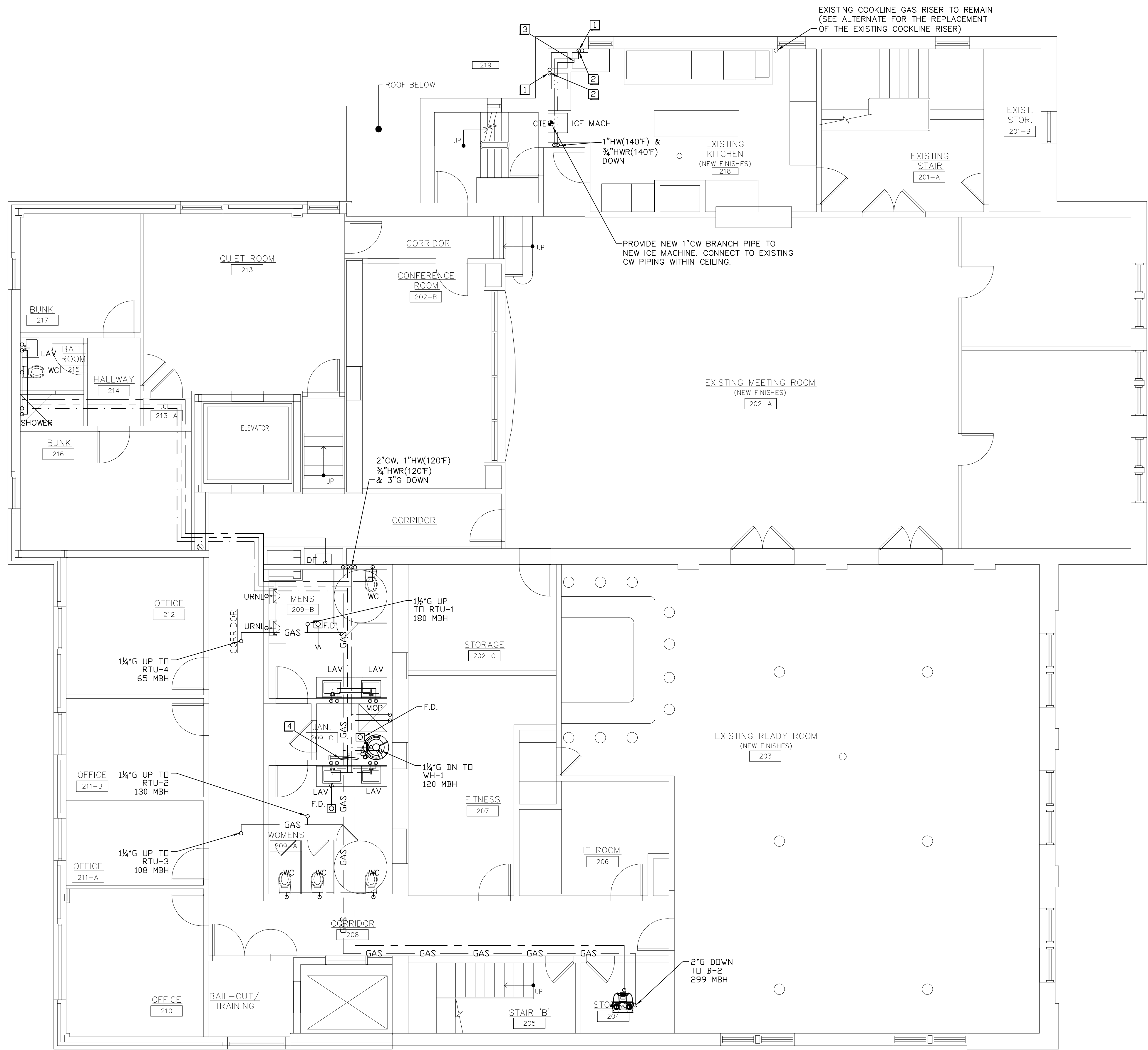
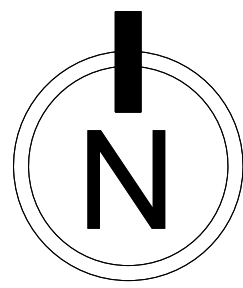
DRAWN BY: SEND. ARCH.

CAD FILE: P/2020/HFD  
2020-04

DRAWING#:

P-5





1 SECOND FLOOR DOMESTIC WATER PLAN  
P-7 3/16" = 1'-0"

3/16" = 1'-0" 5' 0 5 10

SYMBOL LEGEND			
---	COLD WATER LINE	+	GAS VALVE & SEDIMENT TRAP
---	HOT WATER LINE (120°)	+	THERMOMETER
---	HOT WATER LINE (140°)	+	HOSE BIB
---	HOT WATER RECIRC (120°)	+	BALANCING VALVE
---	HOT WATER RECIRC (140°)	+	F.D. FLOOR DRAIN
---	GAS	+	ISOLATION VALVE
---	NAT. GAS PIPING	+	WATER HAMMER
●	CTE	+	WHA-1 ARRESTOR
---	CONNECT TO EXISTING		

SECOND FLOOR - KEYNOTES	
1	DISCONNECT THE HOT WATER BRANCH PIPE FROM THE MAIN. REPLACE TEE AT MAIN WITH STRAIGHT PIPE.
2	CONNECT NEW 1/2"HW TO THE EXISTING BRANCH PIPE.
3	PROVIDE BALANCING VALVE AT RECIRC CONNECTION TO HOT WATER LINE.
4	RUN PIPING TIGHT TO WALL TO CLEAR ROOF HATCH.

PLAN NOTES:

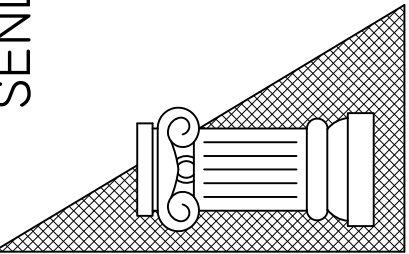
1. FLEXIBLE WATER CONNECTORS EXPOSED TO CONTINUOUS PRESSURE SHALL CONFORM TO ASME A112.18.6/CSA B125.6. ACCESS SHALL BE PROVIDED TO ALL FLEXIBLE CONNECTORS.
2. PROVIDE VALVED DRAINS FOR ANY TRAPPED DOMESTIC WATER MAIN PIPING.
3. INSULATE ALL DOMESTIC HOT AND COLD WATER PIPING IN ACCORDANCE WITH TABLE C403.11.3 OF THE 2020 NYSGCC.
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 2020 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. AS PER SECTION C408.2.2 OF THE 2020 NYSGCC.
9. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION 308 OF THE 2020 NYSFGC.
10. ALL FIXTURE WATER SUPPLY PIPES SHALL MEET THE MINIMUM SIZE REQUIREMENTS OF TABLE 604.5 OF THE 2020 NYSFGC.
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 2014 NYSFGC.
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. 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.
22. ACCESS SHALL BE PROVIDED TO ALL FULLOPEN VALVES AND SHUTOFF VALVES.
23. THE DOMESTIC WATER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH SECTION 312 OF THE 2020 NYSFGC.
24. PROVIDE TRAP PRIMERS FOR ALL BATHROOM FLOOR DRAINS AND ALL FUNNEL DRAINS. EXCLUDE APPARATUS BAY FLOOR DRAINS FROM TRAP PRIMER REQUIREMENTS.
25. A FLUSHING DEVICE SHALL NOT SERVE MORE THAN ONE FIXTURE.
26. PROVIDE BALANCING VALVES ON HOT WATER RE CIRCULATION LINES TO EACH BATHROOM AREA.

DATE: ISSUE

04-21-21  
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SEAL:

SENLEWSKI ARCHITECTS PC  
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(631) 727-5352  
9 SELENA COURT  
WALDEN, NY 12586  
(845) 275-8859



HARRISON FIRE DEPT.  
PROPOSED ADDITION  
206 HARRISON AVE  
HARRISON, NY 10528  
SECOND FLOOR  
DOMESTIC WATER PLAN

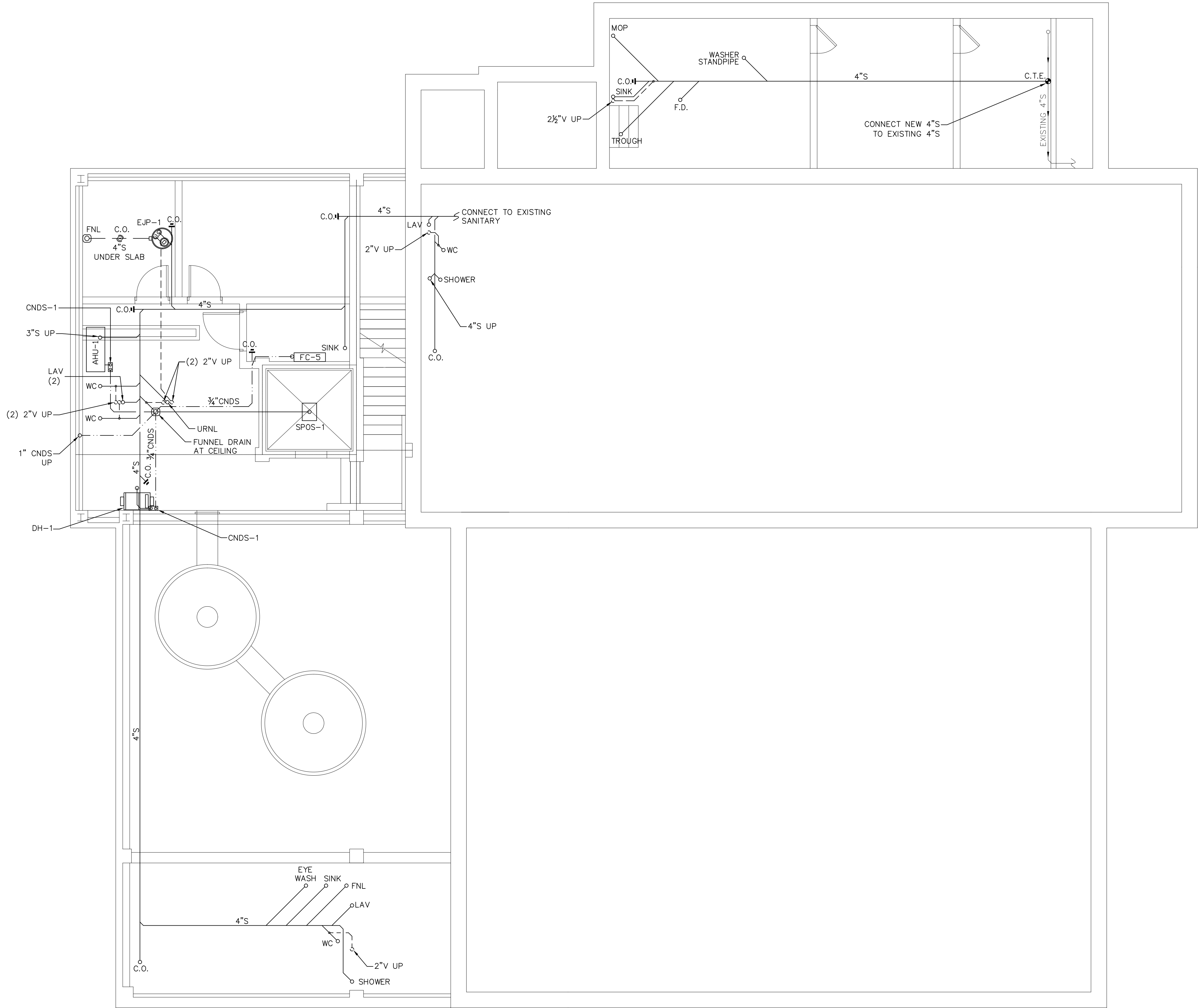
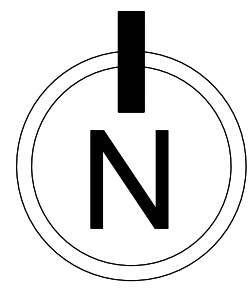
PROJECT #: 2020-04

DRAWN BY: SEND. ARCH.

CAD FILE: P/2020/HFD  
2020-04

DRAWING#:

P-7



SYMBOL LEGEND	
— 4"S —	SANITARY PIPING
- - 4"S - -	SANITARY PIPING BELOW GRADE
- - - - -	SANITARY VENT PIPING
- · - · -	CONDENSATE PIPING
— 4"ST —	STORM WATER PIPING
⊗	HOUSE TRAP
⊞	C.O. CLEAN OUT ABOVE GROUND
⊞	WCO WALL CLEAN OUT
⊞	C.O. CLEAN OUT W/DECK PLATE
⊞	F.S. FLOOR SINK
⊞	F.D. FLOOR DRAIN
⊞	FNL FUNNEL DRAIN
⊞	R.D. ROOF DRAIN

- PLAN NOTES:
- CLEANOUTS SHALL BE PROVIDED AND SIZED ACCORDING TO SECTION 708 OF THE 2020 NYSPC.
  - FIXTURE VENTING CONNECTIONS SHALL BE AS PER SECTION 905 OF THE 2020 NYSPC.
  - PROVIDE A SLEEVE FOR PIPING PROTECTION. TYPICAL OF ALL PIPE PENETRATIONS THROUGH THE FOUNDATION WALL. SEE DETAILS FOR SPECIFIC APPLICATIONS.
  - ALL BURIED PIPING SHALL BE SUPPORTED THROUGHOUT ITS ENTIRE LENGTH.
  - ALL ABOVE-GROUND SANITARY DRAINS AND VENT PIPES SHALL CONFORM TO THE MATERIALS IN SECTION 702.1 OF THE 2020 NYSPC. VENT PIPING MATERIAL SHALL ALSO COMPLY WITH SECTION 902 OF THE 2020 NYSPC.
  - CONNECT ALL EQUIPMENT AND FIXTURES AS PER THE MANUFACTURER'S REQUIREMENTS AND STATE PLUMBING CODES.
  - SEE RISER DIAGRAM FOR PIPE SIZING NOT SHOWN ON PLAN.
  - THE SANITARY DRAINAGE SYSTEM IS TO BE TESTED AS PER SECTION 701.6 OF THE 2020 NYSPC AND DOCUMENTED ACCORDINGLY.
  - PLUMBING VENTS SHALL BE A MINIMUM OF TEN FEET FROM ANY WINDOW OR FRESH AIR INTAKE.
  - AS PER SECTION 903.1 OF 2020 NYSPC, ALL OPEN VENT PIPES THAT EXTEND THROUGH A ROOF SHALL BE TERMINATED AT LEAST 18 INCHES ABOVE THE ROOF.
  - ALL CONDENSATE PIPING SHALL BE FULLY INSULATED.
  - ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION 308 OF THE 2020 NYSPC.
  - AIR GAPS SHALL BE IN ACCORDANCE WITH SECTION 802.3.1 OF THE 2020 NYSPC.
  - ALL CONDENSATE PIPING SHALL TERMINATE AT AN INDIRECT DRAIN. THE HEIGHT OF THE AIR GAP SHALL BE TWICE THE EFFECTIVE OPENING OF THE CONDENSATE PIPE.
  - ALL BELOW-GRADE SANITARY DRAINS AND VENT PIPES SHALL CONFORM TO THE MATERIALS IN SECTION 702.2 OF THE 2020 NYSPC. VENT PIPING MATERIAL SHALL ALSO COMPLY WITH SECTION 902 OF THE 2020 NYSPC.
  - UNDERGROUND SANITARY PIPING SHALL BE SUPPORTED THROUGHOUT ITS ENTIRE LENGTH.
  - EXCAVATED TRENCHES SHALL BE PROVIDED WITH CONTINUOUS LOAD-BEARING SUPPORT BETWEEN JOINTS.
  - 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.
  - 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 THE 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.
  - 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.
  - THE DISCHARGE PIPING SERVING THE PRESSURE RELIEF VALVE FOR WH-2 SHALL BE IN COMPLIANCE WITH SECTION 504.6 2020 NYSPC.

1 BASEMENT FLOOR SANITARY PLAN  
P-8 3/16" = 1'-0"

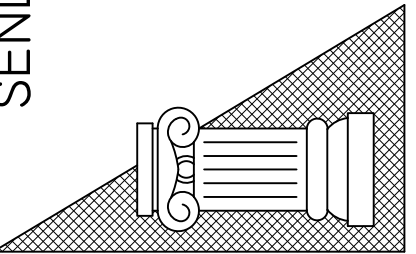
3/16"=1'-0" 5' 0 5 10

DATE: ISSUE

04-21-21  
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SEAL:

SENDEWSKI ARCHITECTS PC  
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9 SELENA COURT  
WALDEN, NY 12586  
(845) 275-8859



HARRISON FIRE DEPT.  
PROPOSED ADDITION  
206 HARRISON AVE  
HARRISON, NY 10528  
BASEMENT FLOOR  
SANITARY PLAN

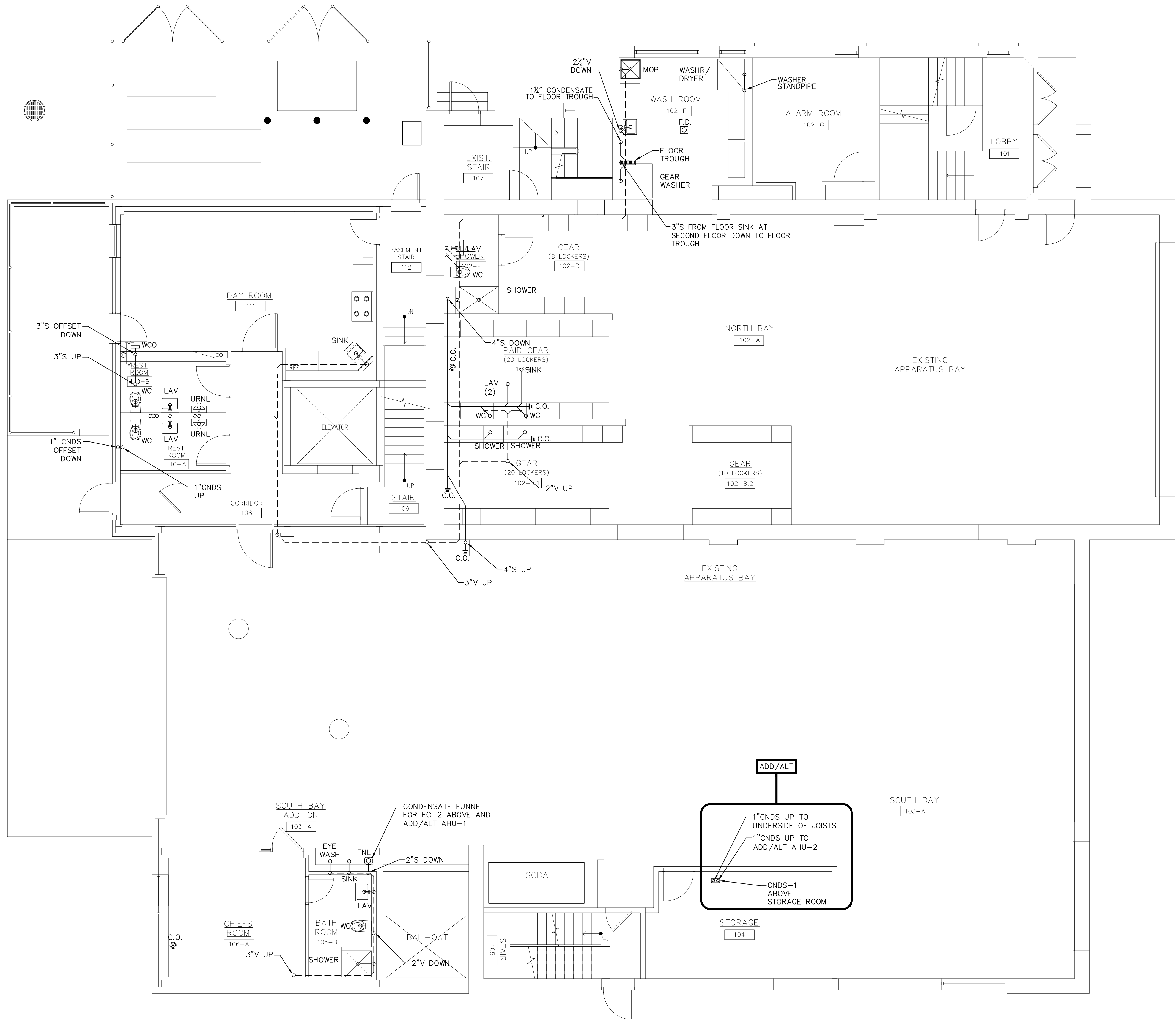
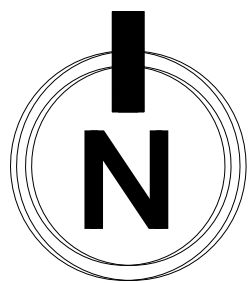
PROJECT #: 2020-04

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CAD FILE: P/2020/HFD  
2020-04

DRAWING#:

P-8



1 FIRST FLOOR SANITARY PLAN  
P-9 3/16" = 1'-0"  
3/16" = 1'-0" 5' 0 5 10

SYMBOL LEGEND	
—4"S—	SANITARY PIPING
- - -4"S- - -	SANITARY PIPING BELOW GRADE
- - - - -	SANITARY VENT PIPING
- · - · -	CONDENSATE PIPING
—4"ST—	STORM WATER PIPING
⊗	HOUSE TRAP
⊥	C.O. CLEAN OUT ABOVE GROUND
⊥	WCO WALL CLEAN OUT
⊗	C.O. CLEAN OUT W/DECK PLATE
⊗	F.S. FLOOR SINK
⊗	F.D. FLOOR DRAIN
⊗	FNL FUNNEL DRAIN
⊗	R.D. ROOF DRAIN

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DATE: ISSUE

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SEAL:

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ARCHITECTS - PLANNERS

215 ROANOKE AVENUE  
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(631) 727-5352

9 SELENA COURT  
WALDEN, NY 12586  
(845) 275-8859

HARRISON FIRE DEPT.

PROPOSED ADDITION

206 HARRISON AVE  
HARRISON, NY 10528

FIRST FLOOR  
SANITARY PLAN

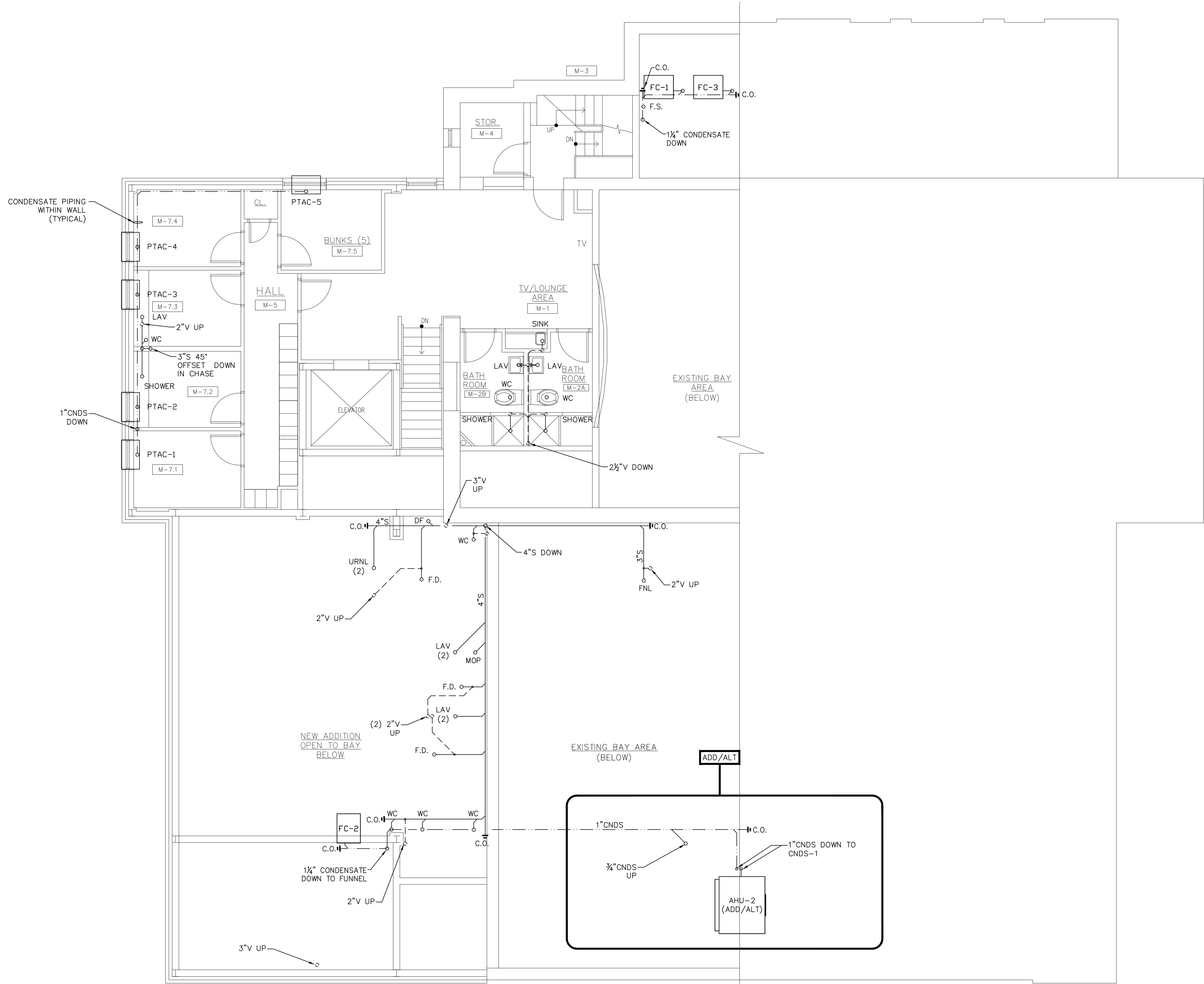
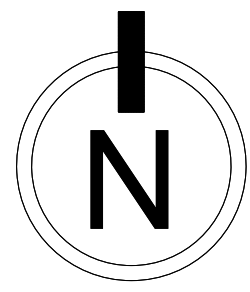
PROJECT #: 2020-04

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CAD FILE: P/2020/HFD  
2020-04

DRAWING#:

P-9



1 MEZZANINE SANITARY PLAN  
P-10 3/16" = 1'-0"  
3/16" = 1'-0"

SYMBOL LEGEND	
— 4"S —	SANITARY PIPING
- - 4"S - -	SANITARY PIPING BELOW GRADE
- - - - -	SANITARY VENT PIPING
- · - · -	CONDENSATE PIPING
— 4"ST —	STORM WATER PIPING
⊗	HOUSE TRAP
⊥ C.O.	CLEAN OUT ABOVE GROUND
⌈ WCO	WALL CLEAN OUT
⊗ C.O.	CLEAN OUT W/DECK PLATE
⌈ F.S.	FLOOR SINK
⌈ F.D.	FLOOR DRAIN
⊗ FNL	FUNNEL DRAIN
⊗ R.D.	ROOF DRAIN

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DATE: 04-21-21  
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SEAL:

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(845) 275-8859

HARRISON FIRE DEPT.  
PROPOSED ADDITION  
206 HARRISON AVE  
HARRISON, NY 10528  
MEZZANINE  
SANITARY PLAN

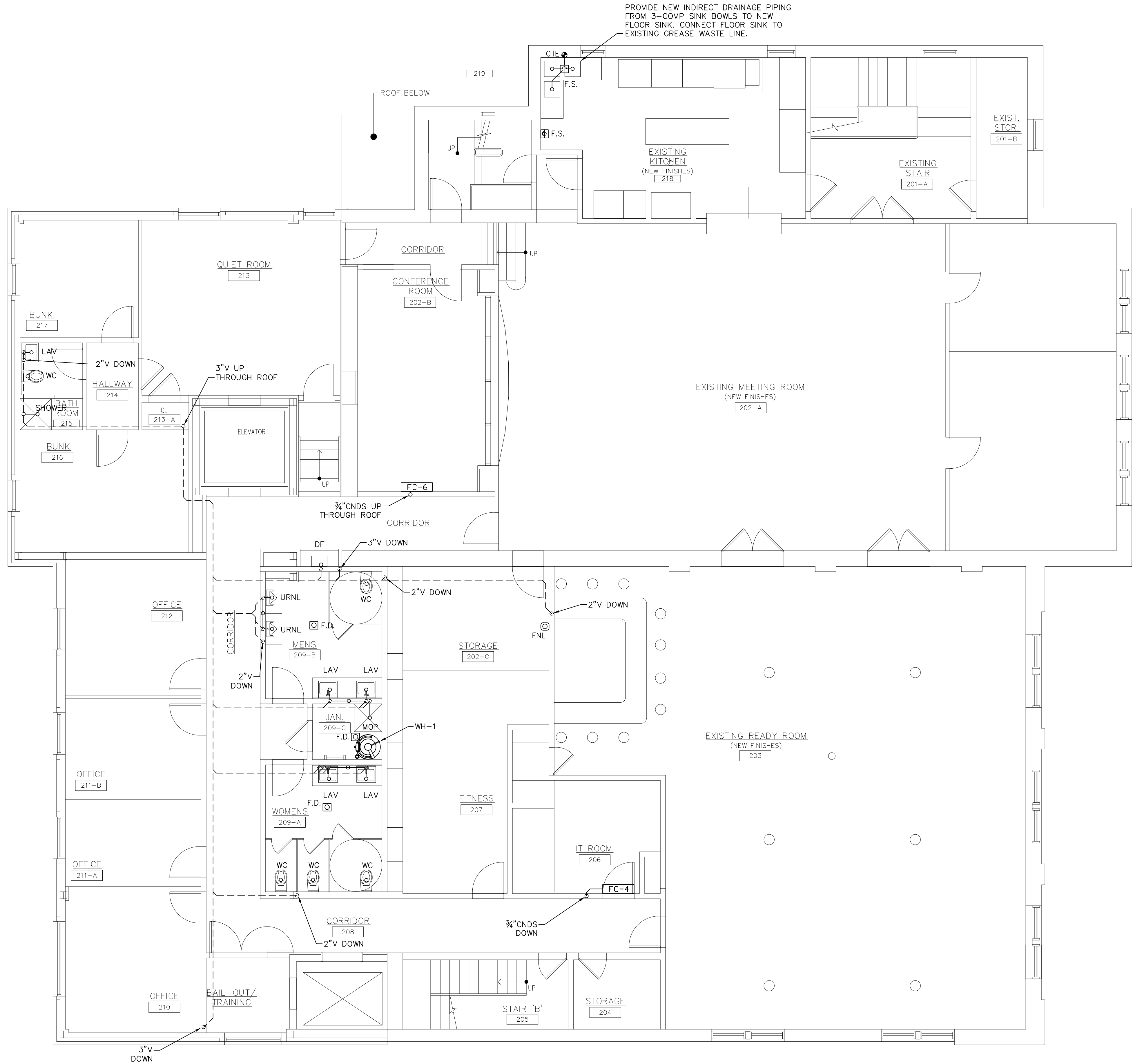
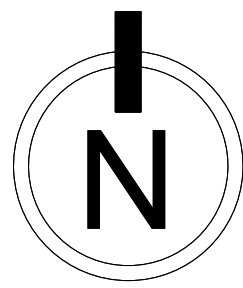
PROJECT #: 2020-04

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CAD FILE: P/2020/HFD  
2020-04

DRAWING#:

P-10



SYMBOL LEGEND	
— 4" S —	SANITARY PIPING
- - 4" S - -	SANITARY PIPING BELOW GRADE
- - - - -	SANITARY VENT PIPING
- · - · -	CONDENSATE PIPING
— 4" ST —	STORM WATER PIPING
⊗	HOUSE TRAP
⊢ C.O.	CLEAN OUT ABOVE GROUND
⌋ WCO	WALL CLEAN OUT
⊗ C.O.	CLEAN OUT W/DECK PLATE
⌋ F.S.	FLOOR SINK
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⊗ R.D.	ROOF DRAIN

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  11. AIR GAPS SHALL BE IN ACCORDANCE WITH SECTION 802.3.1 OF THE 2020 NYSPC.
  12. ALL CONDENSATE PIPING SHALL TERMINATE AT AN INDIRECT DRAIN. THE HEIGHT OF THE AIR GAP SHALL BE TWICE THE EFFECTIVE OPENING OF THE CONDENSATE PIPE.
  13. PROVIDE A GALVANIZED STEEL OR ALUMINUM DRAIN PAN NOT LESS THAN 1½ INCHES IN DEPTH FOR WH-1. PROVIDE A MINIMUM ¾ INCH DRAIN PIPE FROM PAN TO FLOOR DRAIN. SEE SECTION 504.7 2020 NYSPC.

DATE: ISSUE

04-21-21  
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SEAL:

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

HARRISON FIRE DEPT.  
PROPOSED ADDITION  
206 HARRISON AVE  
HARRISON, NY 10528  
SECOND FLOOR  
SANITARY PLAN

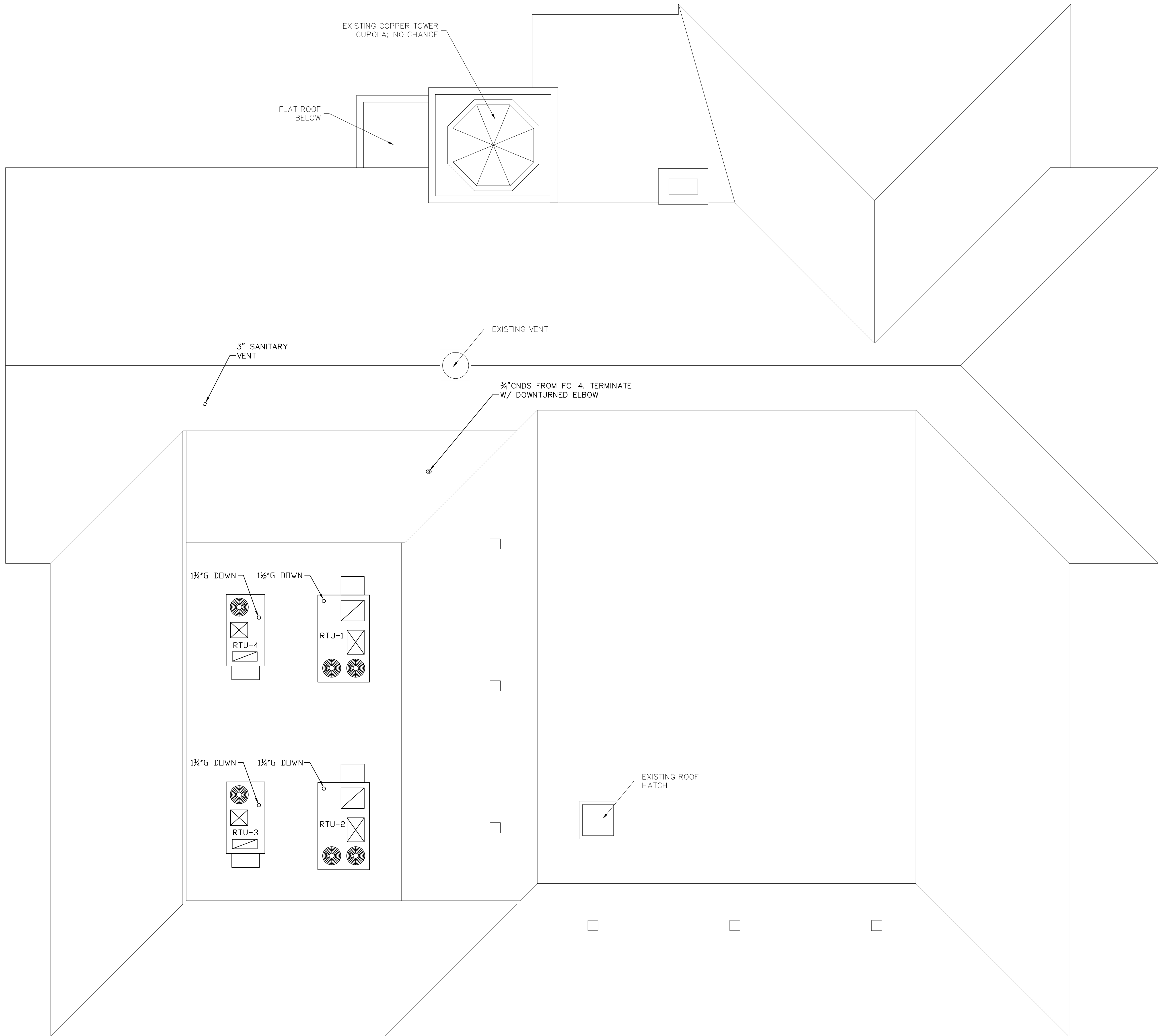
PROJECT #: 2020-04

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CAD FILE: P/2020/HFD  
2020-04

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P-11



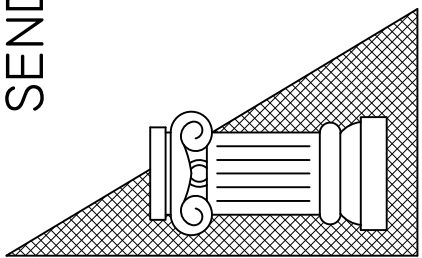
- PLAN NOTES:
1. ALL ABOVE-GROUND SANITARY DRAINS AND VENT PIPES SHALL CONFORM TO T MATERIALS IN SECTION 702.1 OF THE 2020 NYSPC. VENT PIPING MATERIAL SHALL COMPLY WITH SECTION 902 OF THE 2020 NYSPC.
  2. PLUMBING VENTS SHALL BE A MINIMUM OF TEN FEET FROM ANY WINDOW OR I AIR INTAKE.
  3. ALL OPEN VENT PIPES THAT EXTEND THROUGH A ROOF SHALL BE TERMINATED LEAST 18 INCHES ABOVE THE ROOF.
  4. ALL VENT PIPES PENETRATING THROUGH THE ROOF SHALL BE MADE WATER TIG AN APPROVED FLASHING.
  5. THE ANNULAR SPACE BETWEEN THE OUTSIDE OF A PIPE AND THE INSIDE OF A SLEEVE OR BETWEEN THE OUTSIDE OF A PIPE AND AN OPENING IN A BUILDING ENVELOPE WALL, FLOOR, OR CEILING ASSEMBLY PENETRATED BY A PIPE SHALL BE SEALED IN AN APPROVED MANNER WITH CAULKING MATERIAL, FOAM SEALANT OR C WITH A GASKETING SYSTEM. THE CAULKING MATERIAL, FOAM SEALANT OR GASKETIN SYSTEM SHALL BE DESIGNED FOR THE CONDITIONS AT THE PENETRATION LOCATION SHALL BE COMPATIBLE WITH THE PIPE, SLEEVE AND BUILDING MATERIALS IN CONT WITH THE SEALING MATERIALS. ANNULAR SPACES CREATED BY PIPES PENETRATING FIRE-RESISTANCE-RATED ASSEMBLIES OR MEMBRANES OF SUCH ASSEMBLIES SHAL SEALED OR CLOSED IN ACCORDANCE WITH SECTION 714 OF NYSBC.
  6. IN OR ON STRUCTURES WHERE OPENINGS HAVE BEEN MADE IN WALLS, FLOORS CEILINGS FOR THE PASSAGE OF PIPES, THE ANNULAR SPACE BETWEEN THE PIPE THE SIDES OF THE OPENING SHALL BE SEALED WITH CAULKING MATERIALS OR CL WITH GASKETING SYSTEMS COMPATIBLE WITH THE PIPING MATERIALS AND LOCATION
  7. PIPING IN A PLUMBING SYSTEM SHALL BE INSTALLED SO AS TO PREVENT STRA AND STRESSES THAT EXCEED THE STRUCTURAL STRENGTH OF THE PIPE. WHERE NECESSARY, PROVISIONS SHALL BE MADE TO PROTECT PIPING FROM DAMAGE RESI FROM EXPANSION, CONTRACTION AND STRUCTURAL SETTLEMENT.
  8. JOINTS AT THE ROOF AND AROUND VENT PIPES SHALL BE MADE WATER TIGHT. USE OF LEAD, COPPER, GALVANIZED STEEL, ALUMINUM, PLASTIC OR OTHER APPRC FLASHINGS OR FLASHING MATERIAL. EXTERIOR WALL OPENINGS SHALL BE MADE W/ TIGHT.
  9. IN CONCEALED LOCATIONS WHERE PIPING, OTHER THAN CAST-IRON OR GALVAN STEEL, IS INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, RAFTERS ( SIMILAR MEMBERS LESS THAN 1-1/2 INCHES FROM THE NEAREST EDGE OF THE MEMBER, THE PIPE SHALL BE PROTECTED BY STEEL SHIELD PLATES. SUCH SHIELL PLATES SHALL HAVE A THICKNESS OF NOT LESS THAN 0.0575 INCH (NO. 16 GAG SUCH PLATES SHALL COVER THE AREA OF THE PIPE WHERE THE MEMBER IS NOT OR BORED, AND SHALL EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES / BELOW TOP PLATES.
  10. CONNECT ALL EQUIPMENT AS PER THE MANUFACTURER'S REQUIREMENTS AND FUEL GAS CODES.
  11. PROVIDE CONDENSATE PIPING TO ROOF DRAINS FOR ALL ROOFTOP EQUIPMENT

DATE:    ISSUE

04-21-21  
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SEAL:

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



HARRISON FIRE DEPT.  
PROPOSED ADDITION  
206 HARRISON AVE  
HARRISON, NY 10528

ROOF  
PLUMBING PLAN

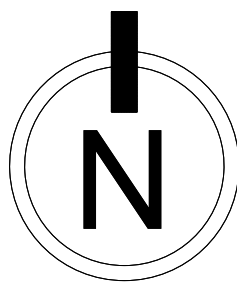
PROJECT #: 2020-04

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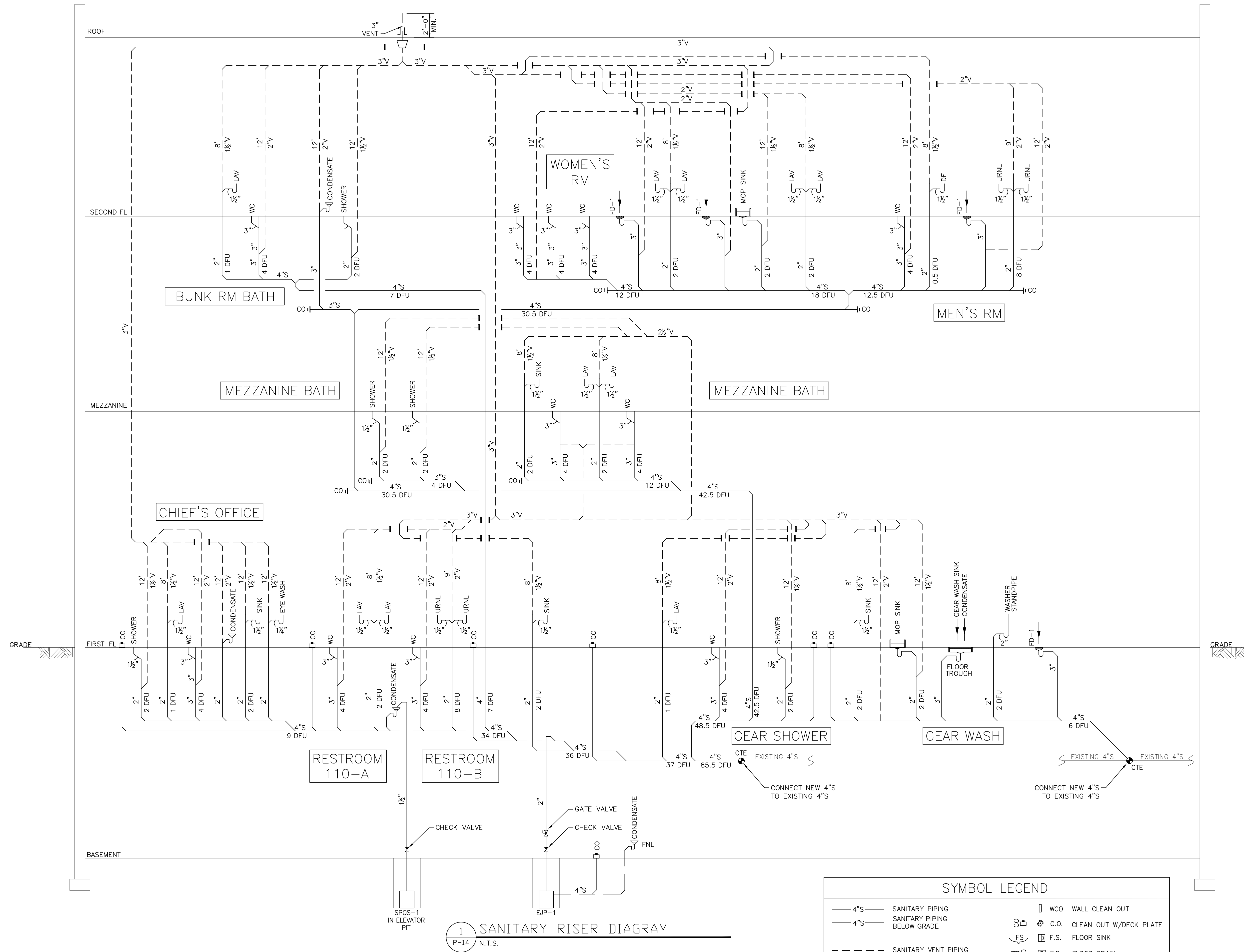
DRAWING#:

P-12



1 ROOF PLUMBING PLAN  
P-12 3/16" = 1'-0"  
3/16" = 1'-0" 5' 0 5 10





DATE: 04-21-21  
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HARRISON FIRE DEPT.  
PROPOSED ADDITION  
206 HARRISON AVE  
HARRISON, NY 10528

SANITARY  
RISER DIAGRAM

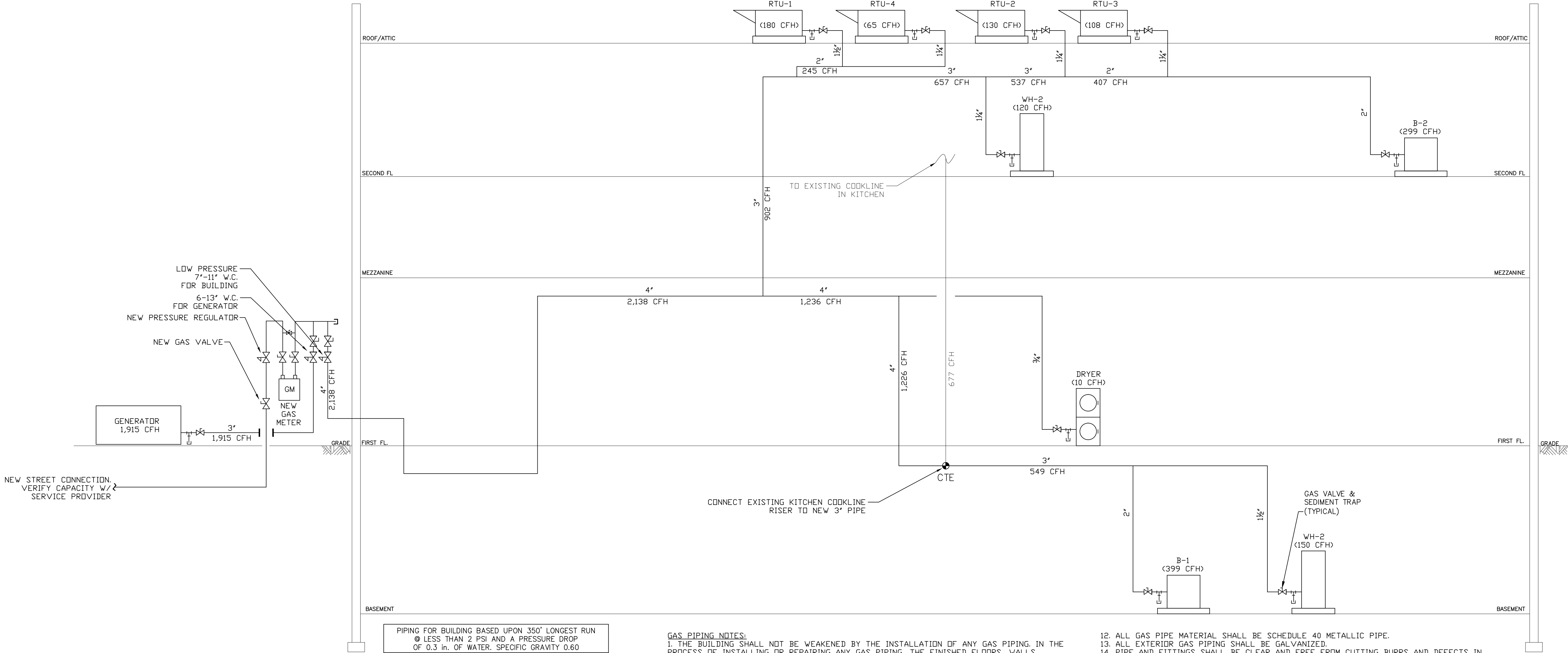
PROJECT #: 2020-04

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CAD FILE: P/2020/HFD  
2020-04

DRAWING#:

P-14



**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 1 1/2 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.

PIPING FOR BUILDING BASED UPON 350' LONGEST RUN  
● LESS THAN 2 PSI AND A PRESSURE DROP  
OF 0.3 in. OF WATER, SPECIFIC GRAVITY 0.60

**GENERAL NOTES:**

1. PROVIDE NEW SERVICE WITH NEW GAS METER, PRV. 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 OWNER THE PRESSURE REQUIREMENTS FOR ALL GAS-FIRED EQUIPMENT WITHIN THE BUILDING.
3. PLUMBING CONTRACTOR TO VERIFY WITH ELECTRICAL CONTRACTOR PRESSURE REQUIREMENTS FOR GENERATOR PRIOR TO SUBMISSION TO GAS SERVICE PROVIDER.

1

**NATURAL GAS RISER DIAGRAM**

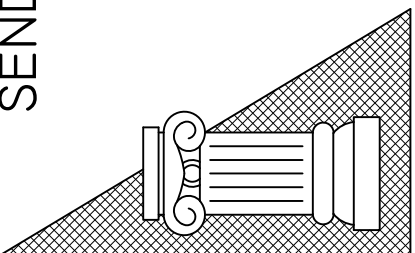
P-15 N.T.S.

DATE: ISSUE

04-21-21  
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**HARRISON FIRE DEPT.**

PROPOSED ADDITION

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HARRISON, NY 10528

**NATURAL GAS**

**RISER DIAGRAM**

PROJECT #: 2020-04

DRAWN BY: SEND. ARCH.

CAD FILE: P/2020/HFD  
2020-04

DRAWING#:

**P-15**

<p>ROUND SECURED GASKETED NICKEL BRONZE ADJUSTABLE TOP WITH "CD" CAST IN COVER. PROVIDE CLEANDUT TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORiated FOR UNFINISHED FLOORS). PROVIDE GASKETED PLASTIC PLUG IN CAST IRON BODY. USE TEFLON JOINT COMPOUND ON PLUG THREADS. CLEAN THE TOP OF EXPOSED FCD AFTER INSTALLATION.</p> <p>MEMBRANE CLAMP FCD FLOOR SLAB ON GRADE</p> <p>AS REQUIRED FOR DEPTH OF SEWER</p> <p>HUB AND SPIGOT CAST IRON PIPE BELOW FLOOR.</p> <p>SANITARY OR STORM SEWER LINE</p> <p>LONG SWEEP ELBOW AT END OR TURN OF RUN. ENTER TOP OF PIPE.</p> <p>COMBINATION WYE AND EIGHTH BEND IN RUN.</p> <p>DIRECTION OF FLOW</p> <p>LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS, AND/OR WHERE SHOWN ON PLANS. PROVIDE BACK FILL PER ARCHITECTURAL SPECIFICATIONS. LOCATE CLEANDUTS WHERE THERE IS 18" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER FCD REQUIREMENTS.</p>		<p>PIPE MAY EXTEND AS WASTE OR VENT.</p> <p>PROVIDE CLEANDUT TEE WITH SCREWED COUNTER-SUNK ABS PLASTIC PLUG. TAPERED-THREAD WITH TEE JOINT COMPOUND.</p> <p>WHERE CLEANDUT TEE IS CONCEALED IN A CHASE OR PARTITION, PROVIDE A ROUND 18 GAUGE STAINLESS STEEL COVER WITH BEVELED EDGES AND FLATHEAD MACHINE SCREW.</p> <p>COLUMN OR PARTITION AS SHOWN ON FLOOR PLAN.</p> <p>CLEANDUT FACE SHALL BE WITHIN 4" OF WALL SURFACE. PROVIDE EXTENSION IF REQUIRED.</p> <p>HUB AT FLOOR</p> <p>CONCRETE FLOOR SLAB</p> <p>RISER LENGTH AS REQUIRED</p> <p>REFER TO PLUMBING FIXTURE SCHEDULE FOR FURTHER INFORMATION. (WCD)</p> <p>LONG SWEEP AT END OF LINE OR COMBINATION WYE AND EIGHTH BEND IN RUN OF LINE.</p> <p>DIRECTION OF FLOW</p> <p>PROVIDE WCD WHERE SHOWN ON PLAN, AND ON SANITARY WASTE BRANCHES NOT SERVED WITH A FLOOR CLEANDUT. LOCATE ABOVE FIXTURE FLOOD RIM WITHIN 4' OF FLOOR. CONSULT LOCAL CODES FOR OTHER WCD REQUIREMENTS.</p>		<p>FLOOR GRATE TO BE FASTENED DOWN WITH SCREWS</p> <p>MOUNT FLUSH WITH FINISHED FLOOR</p> <p>DRAIN LINE</p> <p>AIR GAP = 2 X "D" (2" MIN.)</p> <p>HUB OUTLET</p> <p>NOTE: A. FLOOR SINK COVER FLUSH WITH TILE OR FLUSH WITH CONCRETE FLOOR IN AREA WITH NO TILE</p> <p>FLOOR SINK</p> <p>FUNNEL ASSEMBLY</p> <p>MOUNT FLUSH WITH FINISHED FLOOR</p> <p>AIR GAP = 2 X "D" (2" MIN.)</p> <p>FLOOR DRAIN AND STRAINER ASSEMBLY</p> <p>DRAIN OUTLET</p> <p>FLOOR DRAIN</p>		<p>BUILDING EXTERIOR WALL</p> <p>METAL ESCUTCHEON</p> <p>FRESH AIR PIPE</p> <p>INSIDE BLDG.</p> <p>OUTSIDE BLDG.</p> <p>PICKED OAKUM &amp; MOLTEN LEAD</p> <p>FRESH AIR INLET FACE PLATE</p> <p>1'-0" MIN. ABOVE GRADE</p> <p>SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVE</p> <p>13/16" MAXIMUM</p>	
1 FLOOR CLEANOUT		2 WALL CLEANOUT		3 FLOOR SINK / DRAIN DETAILS		4 FRESH AIR INLET	
NOT TO SCALE		NOT TO SCALE		NOT TO SCALE		NOT TO SCALE	
<p>HIGH PROFILE EDGE CAULK.</p> <p>PIPE (CLEAN THOROUGHLY)</p> <p>FLEXFLASH E</p> <p>G-400 SEAM ADHESIVE</p> <p>APPROVED INSULATION</p> <p>HIGH PROFILE EDGE CAULK.</p> <p>GENFLEX MEMBRANE</p> <p>NOTES: 1. DECK SHEET ATTACHMENT REQUIRED ON PIPES OVER 12". 2. FLEXFLASH 'E' IS UNCURED EPDM.</p>		<p>MASONRY OR CONCRETE INTERIOR WALL, FLOOR OR CEILING</p> <p>METAL ESCUTCHEON</p> <p>FIRE STOP MATERIAL</p> <p>13/16" MAXIMUM</p> <p>20 GAUGE SHEET METAL SLEEVE</p>		<p>METAL ESCUTCHEON</p> <p>LINK SEAL TYPE STEEL PIPE SLEEVE</p> <p>OUTSIDE BLDG.</p> <p>INSIDE BLDG.</p> <p>LINK SEAL TYPE FOUNDATION PENETRATION SEAL</p> <p>WATER STOP &amp; ANCHOR COLLAR</p>		<p>PROVIDE CLEANDUTS IN TURNS/ENDS OF PIPE. USE DWV FITTINGS IF SIZE IS LARGER THAN 1". SLOPE PIPE AS MUCH AS POSSIBLE TOWARD DISCHARGE. MAKE CONNECTION TO EQUIPMENT AS REQUIRED. MAKE PIPE MINIMUM ONE SIZE LARGER THAN EQUIPMENT CONNECTION, MINIMUM 3/4". USE "H" OR "L" HARD COPPER UP TO 1" AND TYPE DWV FOR LARGER. ROUTE PIPE INCONSPICUOUSLY AND UNOBTUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.</p> <p>DISCHARGE INTO RECEPTOR WITH AIR GAP SUFFICIENT TO REMOVE GRATE AND STRAINER. MINIMUM GAP = TWICE PIPE DIAMETER.</p> <p>VERIFY WITH LOCAL CODES IF WHEN TRAP AND/OR VENT ARE REQUIRED FOR THE LENGTH OF DRAIN PIPE INSTALLED.</p>	
5 PIPE PENETRATION THROUGH ROOF		6 PIPE PENETRATION INTERIOR WALL		7 PIPE PENETRATION FOUNDATION WALL		8 CONDENSATE DRAIN	
NOT TO SCALE		NOT TO SCALE		NOT TO SCALE		NOT TO SCALE	
<p>1/2" CW</p> <p>1 1/2" V</p> <p>1/2" HW</p> <p>2" W, 1 1/2" V</p> <p>PLAN</p> <p>GOOSENECK FAUCET</p> <p>1 1/2" V</p> <p>1/2" CW</p> <p>1/2" HW</p> <p>1 1/2" TRAP</p> <p>3"</p> <p>FIN.FL.</p> <p>2" W</p> <p>ELEVATION</p>		<p>1" CW</p> <p>4" S, 2" V</p> <p>2" V</p> <p>4" S</p> <p>PLAN</p> <p>PLUMBING CHASE</p> <p>2" V</p> <p>1" CW</p> <p>1" FV</p> <p>FINISHED FLOOR</p> <p>4" S TYP.</p> <p>4" S</p> <p>ELEVATION</p>		<p>USE HARD COPPER PIPE ABOVE FLOOR SLAB, OF SIZE AS SHOWN ON PLANS.</p> <p>COPPER PIPE COUPLING</p> <p>FLOOR SLAB</p> <p>CRUSHED ROCK</p> <p>COMPACT EARTH</p> <p>PROVIDE STYROFOAM OR MASONRY SUPPORTS</p> <p>USE TYPE "K" SOFT COPPER TUBE WITHOUT JOINTS BELOW FLOOR</p> <p>PROVIDE ELASTOMERIC UNICELLULAR SEAMLESS 1/2" INSULATION ON PIPE BELOW FLOOR SLAB, AND TO STUB ABOVE FLOOR ONE INCH.</p> <p>IF HOT AND COLD WATER PIPES ARE INSTALLED IN SAME TRENCH, SEPARATE THEM BY MINIMUM 12".</p> <p>IF FLOOR SLAB IS EXISTING, SAW CUT IT, EXCAVATE, BACKFILL, REPAIR VAPOR BARRIER, AND PATCH SLAB. PIPE SHALL HAVE LONG RADIUS TURNS WITHOUT KINKS. THERE SHALL BE NO CONTACT OF COPPER TUBE WITH OTHER PIPE, CONDUIT, OR REINFORCING STEEL.</p>		<p>PROVIDE FULL PORT BALL SHUT-OFF VALVE ON ROUGH-IN. DOUBLE CHECK VALVE (DCV)</p> <p>INSTALL WATER FILTER PER MANUFACTURER'S INSTRUCTIONS IF FURNISHED WITH ICE MACH.</p> <p>INSTALL IN REVERSE OSMDIS SITUATIONS</p> <p>INDIRECT DRAIN OPEN TO ATMOSPHERE AT UPPER END.</p> <p>3" FS</p> <p>1"</p> <p>1/2" COLD WATER SUPPLY DOWN IN PARTITION WHERE SHOWN ON PLAN.</p> <p>ADAPTER AND SIX FOOT LONG SOFT COPPER TUBING TO CUBER WATER INLET. CONNECT TO MULTIPLE CUBERS WHERE REQUIRED.</p> <p>CONNECT TO CUBER AND ICE BIN DRAIN OUTLETS AS REQ'D.</p> <p>REFER TO "INDIRECT DRAIN" DETAIL FOR MORE INFORMATION.</p> <p>PROVIDE FLOOR SINK AT FRONT EDGE OF ICE MACHINE, WHERE ACCESSIBLE FOR CLEANING - NOT UNDER ANY EQUIPMENT. SLOPE FLOOR 1/2" TO RIM.</p> <p>PROVIDE COLD WATER ROUGH-IN AT TOP OF ICE MACHINE. ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT CONDITIONS. VERIFY CONNECTIONS WITH MANUFACTURER.</p>	
9 ADA WALL MOUNTED LAVATORY		10 ADA FLOOR MOUNTED WC		11 WATER PIPE UNDER SLAB		12 ICE MACHINE CONNECTIONS	
NOT TO SCALE		NOT TO SCALE		NOT TO SCALE		NOT TO SCALE	
<p>H.W. SUPPLY (140 F)</p> <p>TEMPERATURE - PRESSURE</p> <p>TEMPERING (3-WAY) VALVE WATTS M/N: LFMMV TEMP. GA.</p> <p>H.W. SUPPLY (120 F)</p> <p>RELIEF PIPE</p> <p>GAS SUPPLY</p> <p>SHUTOFF COCK</p> <p>UNION</p> <p>DIRT LEG</p> <p>PIPE CAP</p> <p>INTAKE &amp; VENT UP THRU ROOF.</p> <p>CHECK VALVE</p> <p>BALL VALVE OR GATE VALVE (TYP)</p> <p>3/4" C.W. INLET</p> <p>DIELECTRIC UNIONS AS REQUIRED BY SPECS (TYP)</p> <p>WATER HEATER</p> <p>DRAIN VALVE WITH HOSE END</p>		<p>COLD WATER SUPPLY TO WATER HEATER.</p> <p>PIPE HANGER NEXT TO PIPE TEE</p> <p>SHUT-OFF VALVE</p> <p>WATTS NO. 530 1/2" CALIBRATED PRESSURE RELIEF VALVE SET AT 100 PSI.</p> <p>HARD COPPER RELIEF VALVE DISCHARGE LINE TO END OVER FLOOR DRAIN OR JANITOR'S SINK. AIM DOWNWARD. WITH 2" AIR GAP</p> <p>BUTYL DIAPHRAGM</p> <p>AIR CHARGING VALVE. FILL TANK WITH AIR PRESSURE TO MATCH WATER PRESSURE. THEN OPEN VALVE.</p> <p>PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. MAKE PIPE SAME SIZE AS TANK FITTING. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE. VERIFY PROPER OPERATION WHEN INSTALLED.</p>		<p>1-1/2" W UP</p> <p>1/2" HW DN</p> <p>2" W</p> <p>1/2" CW DN</p> <p>PARTITION</p> <p>MUD &amp; PAN SHOWER BASE. COORDINATE WITH G.C. AND TILE SUB.</p> <p>THRESHOLD</p> <p>SHOWER DRAIN</p> <p>PARTITION</p> <p>PLAN</p>		<p>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.</p>	
13 WATER HEATER		14 EXPANSION TANK		15 SHOWER			
NOT TO SCALE		NOT TO SCALE		NOT TO SCALE			

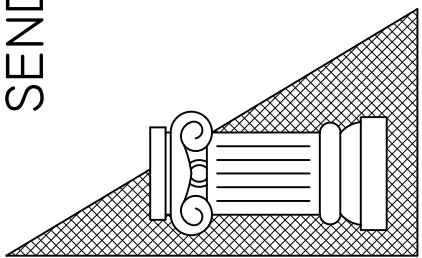
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04-21-21  
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HARRISON FIRE DEPT.

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PLUMBING  
DETAILS

PROJECT #: 2020-04

DRAWN BY: SEND. ARCH.

CAD FILE: P/2020/HFD  
2020-04

DRAWING#:

P-16

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 QUDATATION 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 ONDER 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.** WHERE 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:

- 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.
- ON THE WATER SUPPLY TO EACH SILLCOCK.
- 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:**

- 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.
- 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:

- ON THE BUILDING WATER SERVICE PIPE FROM THE PUBLIC WATER SUPPLY NEAR THE CURB.
- ON THE WATER DISTRIBUTION PIPE AT THE ENTRANCE INTO THE STRUCTURE.
- ON THE DISCHARGE SIDE OF EVERY WATER METER.
- 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.
- ON THE TOP OF EVERY WATER DOWN-FEED PIPE IN OCCUPANCIES OTHER THAN ONE AND TWO-FAMILY RESIDENTIAL OCCUPANCIES.
- ON THE ENTRANCE TO EVERY WATER SUPPLY PIPE TO A DWELLING UNIT, EXCEPT WHERE SUPPLYING FIXTURES EQUIPPED WITH INDIVIDUAL STOPS.
- ON THE WATER SUPPLY PIPE TO AND FROM A GRAVITY OR PRESSURIZED WATER TANK.
- 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 1/8 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	⅙ a
8 OR LARGER	⅛ 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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