LEGEND

SYMBOL	DESCRIPTION
	PIPING UP
	PIPING DOWN
	PIPING RISE OR DROP
	BRANCH-TOP CONNECTION
	BRANCH-BOTTOM CONNECTION
	REDUCER
CO CO	CLEANOUT
	FLOOR CLEANOUT
	CAPPED PIPE
M	METER
	FLOOR DRAIN
	AQUASTAT
	PUMP
	STRAINER
	UNION
	THERMOSTATIC MIXING VALVE
	BALANCING VALVE (BLV)
	GLOBE VALVE (GLV)
	CHECK VALVE (CV)
	GAS COCK, GAS STOP
	BALL VALVE (BV)
	BUTTERFLY VALVE (BFV)
S	SOLENOID VALVE
	PRESSURE-REDUCING VALVE (PRV)
	GATE VALVE (GV)
	PRESSURE-RELIEF VALVE (RV)
	BACKFLOW PREVENTER
	FROST FREE HOSE BIBB
	HOSE BIBB
	RECESSED-BOX HOSE BIBB OR WALL HYDRANT
	EXPANSION JOINT
	WATER HAMMER ARRESTER
	VALVE IN RISER
CO	WALL CLEANOUT (WCO)
	PITCH DOWN OR UP IN DIRECTION OF ARROW
	FLOW IN DIRECTION OF ARROW
	COLD WATER (CW)
	TEMPERED WATER (TW)
	HOT WATER (HW)
	TEMPERED WATER RETURN (TWR)
	HOT WATER RETURN (HWR)
	WASTE PIPING (W,S,OW)
	BELOW SLAB WASTE PIPING
	VENT PIPING (V)
	GAS PIPING (G)
	TO BE REMOVED
	POINT OF CONNECTION
	POINT OF DISCONNECTION

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CLG	CEILING
CO	CLEAN OUT
CODP	CLEAN OUT DECK PLATE
COWP	CLEAN OUT WALL PLATE
CW	COLD WATER
(D)	DEMOLISH
DCV	DOUBLE CHECK VALVE DEVICE
DEG. F	° FAHRENHEIT
DIA	DIAMETER
DN	DOWN
(E)	EXISTING
EA	EACH
FAI	FRESH AIR INTAKE
FD	FLOOR DRAIN
G	GAS
'GC'	GENERAL CONSTRUCTION CONTRACTOR
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
'H'	HVAC CONTRACTOR
HP	HORSEPOWER
HW	HOT WATER
HWR	HOT WATER RETURN
IN.	INCHES
IN. W.C. (W.G.)	INCHES WATER COLUMN (WATER GAUGE)
KW	KILOWATTS
LBS	POUNDS
M	METER
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
OW	OIL WASTE
(P)	PROPOSED
'P'	PLUMBING CONTRACTOR
PD	PRESSURE DROP
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
SAN / S	SANITARY
ST	STORM DRAIN
TEMP	TEMPERATURE
TYP	TYPICAL
TW	TEMPERED WATER (110°F)
TWR	TEMPERED WATER RETURN
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE

GENERAL PLUMBING NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. THE CONTRACTOR, BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE SITE AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND AFFECTING THE WORK AND ITS PERFORMANCE. EXCEPTIONS AFFECTING THE WORK AND ITS PERFORMANCE, OR CONFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION OF BIDS.
3. PERFORM ALL WORK IN ACCORDANCE WITH THE 2020 NEW YORK STATE PLUMBING (NYSPC), FIRE (NYSFC), MECHANICAL (NYSMC), ENERGY CONSERVATION CONSTRUCTION (NYSECC), AND FUEL GAS (NYSFGC) CODE AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
4. COMPLY WITH THE NATIONAL ELECTRIC CODE AND THE REQUIREMENTS OF DIVISION 26 FOR ALL ELECTRICAL INSTALLATIONS.
5. APPLY FOR AND SECURE ALL REQUIRED PERMITS AND INSPECTIONS AND PAY ALL COSTS FOR THE SAME.
6. FIRE STOP ALL OPENINGS IN FIRE RATED CONSTRUCTION FOR PIPING, CONDUIT, ETC.
7. DO NOT SCALE DRAWINGS. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE.
8. COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURERS REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE, CONTRACTORS INTENDED MEANS AND METHODS OF INSTALLATION AND CONTRACTORS FABRICATED ITEMS TO ENSURE A PROPER "FIT" AND INSTALLATION. BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING ANY EQUIPMENT.
9. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE OF PIPES, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
10. FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.
11. PROVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL OR EQUIPMENT IS REQUIRED.
12. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. REFER TO DETAILS FOR ADDITIONAL PIPING AND EQUIPMENT INSTALLATION REQUIREMENTS.
13. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO ENSURE MANUFACTURER CERTIFIED ACCURACY.
14. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL CONNECTIONS TO EQUIPMENT.
15. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.
16. COMPLETE ALL PRESSURE TESTS BEFORE ANY PLUMBING EQUIPMENT, OR PIPING INSULATION IS APPLIED.
17. MAKE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT PERMITTED.
18. PROVIDE CONCRETE PADS A MINIMUM OF 4 INCHES HIGH FOR ALL FLOOR MOUNTED EQUIPMENT. EXTEND PAD 4 INCHES BEYOND THE EQUIPMENT ON ALL SIDES.
19. INSTALL PIPING, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
20. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL ACCESSIBLE FIXTURES. MOUNT ALL SUCH FIXTURES IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
21. PROVIDE ACCESS DOORS IN WALLS, PARTITIONS, AND CEILINGS AS REQUIRED TO MAKE VALVES, WATER HAMMER ARRESTERS, ETC. READILY ACCESSIBLE.
22. ARRANGE FOR, COORDINATE, AND MAKE CONNECTION TO ALL SERVICES PROVIDED BY OTHERS. CONFORM TO ALL REQUIREMENTS APPLICABLE TO CONNECTIONS IMPOSED BY UTILITY COMPANIES AND AUTHORITIES HAVING JURISDICTION.
23. INSTALL FIXTURES AND EQUIPMENT WITH VALVES, UNIONS, ETC. TO ALLOW FOR EASE OF SERVICE AND/OR REMOVAL.
24. CORE DRILL ALL PENETRATIONS THROUGH CONCRETE FLOORS, WALLS, AND FOOTINGS.
25. INSTALL LINK SEAL TYPE PROTECTION FOR WATER RESISTANT SEALS AT ALL SLAB AND BELOW GROUND WALL FOOTING PENETRATIONS.
26. PROVIDE A CLEANOUT AT THE BASE OF WASTE AND VENT STACKS WITH FINISHED WALL PLATE IN FINISHED WALLS.
27. FURNISH AND INSTALL WATER PRESSURE REDUCING VALVE AND PRESSURE RELIEF VALVE IN ACCORDANCE WITH THE NEW YORK STATE PLUMBING CODE ON ALL INCOMING DOMESTIC WATER SYSTEMS IN EXCESS OF 80 P.S.I.G.
28. COVER ALL COPPER PIPING BELOW SLAB WITH "ARMAFLEX" TYPE INSULATION.
29. SLOPE ALL VENT PIPING TO DRAIN BACK TO THE DRAINAGE SYSTEM.
30. FLUSH AND DISINFECT ALL DOMESTIC POTABLE WATER PIPING AND TEST THE WATER IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE. PROVIDE CERTIFICATE OF PERFORMANCE AND LABORATORY TEST REPORT TO LOCAL AUTHORITIES HAVING JURISDICTION AND OBTAIN THEIR APPROVAL.
31. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK CLOSING FIXTURE VALVE LOCATIONS.
32. ALL PIPING, VALVES AND FITTINGS USED FOR POTABLE WATER SHALL BE NSF 61/372 COMPLIANT AND BE TESTED FOR LOW LEAD.
33. ANY PENETRATIONS THROUGH AIR BARRIER SHALL BE SEALED AS PER 2020 NYSECC RESIDENTIAL AND COMMERCIAL PROVISIONS .
34. ALL PIPING IN PLENUM SPACES SHALL BE CAST IRON FOR SANITARY, STORM, VENT SYSTEMS, AND COPPER PIPING FOR DOMESTIC SYSTEMS, AND STEEL PIPING FOR GAS SYSTEMS. NO PLASTIC PIPING ALLOWED.
35. HOT WATER TEMPERATURE FOR ALL PUBLIC HAND WASHING FIXTURES SHALL BE TEMPERED TO A MAXIMUM TEMPERATURE OF 110 DEGREES F.
36. ALL FIXTURES SHALL MEET THE WATER CONSERVATION REQUIREMENTS LISTED IN THE TABLE 604.4 OF THE 2020 INTERNATIONAL PLUMBING CODE.
37. ALL FIXTURES THAT HAS THE ABILITY TO HAVE A HOSE CONNECTED TO IT, OR DIRECT CONNECTED FIXTURES, SHALL HAVE A BACKFLOW PREVENTION DEVICE ON THE FAUCET, VACUUM BREAKER (ASSE 1052 AND ASME A112.21.3).
38. ALL SANITARY FITTINGS SHALL BE 'WYE' TYPE AND SHALL FOLLOW THE DIRECTION OF FLOW.
39. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN DESIGN PLANS, RISER DIAGRAMS, AND/OR SPECIFICATIONS CONCERNING PIPE SIZES, FIXTURES, AND/OR EQUIPMENT, THE MOST STRINGENT REQUIREMENTS SHALL BE APPLIED TO THE PROJECT.

FUEL GAS NOTES

1. PERFORM ALL WORK IN ACCORDANCE WITH NFPA 54 - NATIONAL FUEL GAS CODE, THE 2020 NEW YORK STATE FUEL GAS CODE (NYSFGC), 2021 CENTRAL HUDSON RED BOOK, AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
2. THE DEPTH OF COVER FOR ALL GAS SERVICE PIPING SHALL BE 24 INCHES.
3. THE WATER SERVICE SHALL BE KEPT A MINIMUM OF 10-FEET FROM THE INCOMING GAS SERVICE MEASURED IN ANY DIRECTION.
4. IF ELECTRIC AND GAS SHARE A COMMON TRENCH, THE TRENCH MUST BE WIDE ENOUGH TO MAINTAIN A 6-INCH MINIMUM SEPARATION DISTANCE.
5. LOCATION OF PROPOSED GAS METER ON CONTRACT DOCUMENTS ARE SUBJECT TO CHANGE BY THE LOCAL UTILITY COMPANY.
6. REFER TO THE LOCAL UTILITY COMPANY HANDBOOKS FOR METER RIG CONSTRUCTION DETAILS, RULES AND REGULATIONS. THIS INCLUDES, BUT NOT LIMITED TO LOCATION OF STEP DOWN REGULATORS, METER SIZE AND SET LENGTHS, VENTING OF REGULATORS, BYPASS PIPING, BOLLARD REQUIREMENTS, CONCRETE PAD, SUPPORTS, AND SHUT OFF VALVES.
7. GAS PIPING:
   - 7.1. INDOOR - STEEL PIPE- SCHEDULE 40 WITH WELDED OR THREADED JOINTS. THREADED JOINTS SHALL BE 150 POUND MALLEABLE IRON, FORGED STEEL, BLACK IRON, OR GALVANIZED STEEL.
   - 7.2. OUTDOOR - ABOVE GROUND - GALVANIZED PIPE OR PROPERLY COATED BLACK STEEL PIPE WITH SCREWED OR THREADED JOINTS.
   - 7.3. BELOW GRADE - STEEL PIPE- MILL WRAPPED SCHEDULE 40 WITH WELDED OR THREADED JOINTS
   - 7.4. WELDED JOINTS MUST BE USED FOR GAS PIPING LARGER THAN 4-INCH, OR 3-INCH FOR SCHOOLS.
8. GAS PIPING ENTERING A BUILDING SHALL BE ABOVE GRADE. PENETRATIONS THROUGH BURIED WALLS ARE NOT PERMITTED.
9. WHERE GAS PIPING IS INSTALLED BELOW GRADE INSIDE A BUILDING, THE GAS PIPING MUST BE INSTALLED IN A CONDUIT AND BE VENTED TO THE EXTERIOR.
10. GAS PRESSURE TEST:
    - 10.1. GALVANIZED OR BARE STEEL - UP TO 14" W.C. - AIR AT 3 PSIG FOR 30 MINUTES
    - 10.2. GALVANIZED OR BARE STEEL - GREATER THAN 14" W.C. - AIR AT 50 PSIG FOR 30 MINUTES
    - 10.3. COATED OR WRAPPED - LESS THAN 2-INCH - AIR AT 90 PSIG FOR 1-HOUR
    - 10.3. COATED OR WRAPPED - 2-INCH TO 12-INCH - AIR AT 90 PSIG FOR 4-HOURS
11. SUPPLY ALL GAS-FIRED EQUIPMENT WITH GAS PIPING AS PER THE NEW YORK STATE FUEL GAS CODE. PROVIDE EACH PIECE OF EQUIPMENT WITH A DIRT LEG, UNION AND GAS COCK. PROVIDE A VENTED REGULATOR IF EQUIPMENT REQUIRES LOWER THAN LINE GAS PRESSURE.
12. PROVIDE VEHICLE IMPACT PROTECTION FOR NEW METER HEADER. BOLLARDS SHALL BE SPACED NO MORE THAN 4-FEET BETWEEN POSTS ON CENTER AND LOCATED NOT LESS THAN 3-FEET FROM THE PROTECTED OBJECT.
13. SHUTOFF VALVES INSTALLED IN TUBING SYSTEMS MUST BE RIGIDLY AND SECURELY SUPPORTED INDEPENDENTLY OF THE TUBING.
14. ALL COOKING APPLIANCE CONNECTIONS MUST BE LISTED AND LABELED.

MANUAL GAS VALVE STANDARDS

VALVE STANDARDS	APPLIANCE SHUTOFF VALVE APPLICATION UP TO 1/2 PSIG PRESSURE	OTHER VALVE APPLICATIONS		
		UP TO 1/2 PSIG PRESSURE	UP TO 2 PSIG PRESSURE	UP TO 5 PSIG PRESSURE
ANSI Z21.15/CGA9.1	X	–	–	–
ASME B16.44	X	X*	X**	–
ASME B16.33	X	X	X	X

NOTES:
1. FOR SI: 1 POUND PER SQUARE INCH GAUGE = 6.895 kPa.
2. X* IF LABELED 2G
3. X** IF LABELED 5G

ENERGY NOTES

<u>2020 NEW YORK STATE ENERGY CONSERVATION CODE NOTES: STATEMENT OF COMPLIANCE:</u>

TO THE BEST OF MY KNOWLEDGE, AND PERSONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK STATE ENERGY CONSERVATION CODE (NYSECC).

1. SERVICE WATER HEATING EQUIPMENT PERFORMANCE EFFICIENCY:
   - 1.1. WATER HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF TABLE C404.2 IN THE 2020 NYSECC. (NYSECC C404.2)
   - 1.2. SERVICE WATER HEATING SHALL BE COMMISSIONED AND COMPLETED IN ACCORDANCE WITH SECTION C408.2 OF THE 2020 NYSECC.
2. TEMPERATURE CONTROL:
   - 2.1. SERVICE WATER HEATING EQUIPMENT SHALL BE PROVIDED WITH CONTROLS ALLOWING A SETPOINT OF 110°F FOR DWELLING UNITS AND 90 °F FOR OTHER OCCUPANCIES. PUBLIC REST ROOM LAVATORIES SHALL HAVE A MAXIMUM OUTLET TEMPERATURE OF 110°F.
   - 2.2. WHERE WATER HEATING EQUIPMENT SERVING NONCIRCULATING SYSTEMS IS NOT SUPPLIED WITH INTEGRAL HEAT TRAPS, HEAT TRAPS SHALL BE PROVIDED ON THE SUPPLY AND DISCHARGE PIPING. (NYSECC C404.3)
3. PIPE INSULATION:
   - 3.1. AUTOMATIC CIRCULATING HOT WATER SYSTEM PIPING SHALL BE INSULATED WITH 1 INCH OF INSULATION WITH A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/H X FT X FT X °F, OR THE INSULATION REQUIREMENTS OF SPECIFICATIONS, WHICHEVER IS GREATER. THE FIRST 8 FT OF PIPING IN NONCIRCULATING SYSTEMS WITH EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 0.5 INCH OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/H X FT X FT X °F, OR THE INSULATION REQUIREMENTS OF SPECIFICATIONS, WHICHEVER IS GREATER. (NYSECC C404.5)
   - 3.2. ALL PIPING TO BE INSULATED WITH 0.21-0.28 CONDUCTIVITY
   - 3.3. COLD WATER PIPING - ALL SIZES - 1-INCH INSULATION, A.S. JACKET.
   - 3.4. STORM DRAINAGE PIPING ALL HORIZONTAL RUNS AND DRAIN BODY - MINIMUM 1-INCH INSULATION, A.S. JACKET.
   - 3.5. HOT WATER PIPING (140°F) AND TEMPERED WATER PIPING (110°F)
     - 3.5.1. PIPE SIZE: < 1" INSULATION: 1"
     - 3.5.2. PIPE SIZE: 1" TO < 1-1/2" INSULATION: 1"
     - 3.5.3. PIPE SIZE: 1-1/2 TO < 4" INSULATION: 1.5"
     - 3.5.4. PIPE SIZE: 4" TO < 8" INSULATION: 1.5"
4. HOT WATER SYSTEM CONTROLS:
   - 4.1. CIRCULATING HOT WATER SYSTEM PUMPS OR HEAT TRACE SHALL BE ARRANGED TO BE TURNED OFF EITHER AUTOMATICALLY OR MANUALLY WHEN THERE IS LIMITED HOT WATER DEMAND. READY ACCESS SHALL BE PROVIDED TO THE OPERATING CONTROLS. (NYSECC C404.6)
5. PIPE VOLUME AND MAXIMUM LENGTHS
   - 5.1. PER SECTION OF C404.5.1 OF THE 2020 NYSECC, ALL MAXIMUM PIPE LENGTHS FROM FIXTURES SHALL COMPLY WITH THE MAXIMUM PIPE LENGTHS ON THE CHART BELOW. CONTRACTOR TO ENSURE HOT WATER RETURN PIPING IS INSTALLED AS PER PLANS AND THAT THESE LENGTHS ARE MAINTAINED.

NOMINAL PIPE SIZE (INCHES)	VOLUME (LIQUID OUNCES PER FOOT LENGTH)	MAXIMUM PIPING LENGTH (FEET)	
		PUBLIC LAVATORY FAUCETS	OTHER FIXTURES AND APPLIANCES
1/4"	0.33	6	50
5/16"	0.5	4	50
3/8"	0.75	3	50
1/2"	1.5	2	43
5/8"	2	1	32
3/4"	3	0.5	21
7/8"	4	0.5	16
1"	5	0.5	13
1-1/4"	8	0.5	8
1-1/2"	11	0.5	6
2" OR LARGER	18	0.5	4

APPLICABLE CODES

- 2020 NEW YORK STATE RESIDENTIAL CODE (NYSRC) 1ST PRINTING (INCLUDES PLUMBING, MECHANICAL, FUEL GAS, AND ENERGY CONSERVATION)
- 2020 NEW YORK STATE BUILDING CODE (NYSBC) 1ST PRINTING
- 2020 NEW YORK STATE FIRE CODE (NYSFC) 1ST PRINTING
- 2020 NEW YORK STATE PLUMBING CODE (NYSPC) 1ST PRINTING
- 2020 NEW YORK STATE FUEL GAS CODE (NYSFGC) 1ST PRINTING
- 2020 NEW YORK STATE MECHANICAL CODE (NYSMC) 1ST PRINTING
- 2020 NEW YORK STATE ENERGY CONSERVATION CODE (NYSECC) 1ST PRINTING

H2M architects + engineers

538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 ▪ www.h2m.com

CONSULTANTS:

MARK	DATE	DESCRIPTION

"ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
JRM	KJE		

PROJECT No:	DATE:	SCALE:
VGFD2001	JULY 2022	AS SHOWN

CLIENT

VAILS GATE FIRE DISTRICT

New Storage Building (Phase I)
New Fire Station (Phase II)

872 Blooming Grove Turnpike
New Windsor, NY 12553

CONTRACT

CONTRACT G
GENERAL CONSTRUCTION

STATUS

FINAL BID DOCUMENT

SHEET TITLE

PLUMBING NOTES, LEGEND, AND ABBREVIATIONS

DRAWING No.

P2 001.00

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PLUMBING FIXTURE SCHEDULE

FIXTURE TAG	DESCRIPTION	MANUFACTURER	MODEL	TRIM				MINIMUM CONNECTION SIZES (IN)							SPECIFICATION	REMARKS
				MANUFACTURER	MODEL	TYPE	MOTION SENSOR CONTROL	COLD WATER		HOT WATER		DRAIN		VENT		
								SIZE	FU	SIZE	FU	SIZE	DFU			
LAV-1	LAVATORY - UNDERMOUNT	KOHLER	CAXTON OVAL K-2210	KOHLER	GEOMETRIC INSIGHT K-13466	ELECTRONIC	YES	1/2	.5	1/2	.5	1-1/2	1	1-1/2	VITREOUS CHINA UNDER-MOUNT LAVATORY, FRONT OVERFLOW, MOUNTING KIT AND TEMPLATE BY MANUFACTURER. LAVATORY SHALL ADHERE TO ASME A112.19.2 AND ANSI A117.1. FAUCET TO HAVE MAX. FLOW RATE OF 0.5 GPM, VANDAL RESISTANT AERATOR, AND 24" FLEXIBLE SUPPLY HOSES. MIXING FAUCET SHALL ADHERE TO ASME A112.18.1 AND NSF/ANSI 372.	PROVIDE P-TRAP AND STRAINER.
LAV-2	LAVATORY - WALL HUNG - BARRIER FREE	AMERICAN STANDARD	DECORUM 20" X 18" 9024.001EC	KOHLER	GEOMETRIC INSIGHT K-13466	ELECTRONIC	YES	1/2	.5	1/2	.5	1-1/2	1	1-1/2	20" X 18" VITREOUS CHINA LAVATORY WITH REAR OVERFLOW. CENTER HOLE ONLY. RECESSED SELF-DRAINING DECK WITH MINIMAL BACKSPLASH. ADA AND TAS COMPLIANT. LAVATORY SHALL ADHERE TO ASME A112.19.2 AND ANSI A117.1. FAUCET TO HAVE MAX. FLOW RATE OF 0.5 GPM, VANDAL RESISTANT AERATOR, AND 24" FLEXIBLE SUPPLY HOSES. MIXING FAUCET SHALL ADHERE TO ASME A112.18.1 AND NSF/ANSI 372.	PROVIDE ZURN Z1231 CONCEALED ARM WALL MOUNTED LAVATORY SUPPORT SYSTEM, P-TRAP, AND STRAINER.
WC-1	WATER CLOSET - FLUSH VALVE - WALL MOUNT	KOHLER	KINGSTON K-4323	KOHLER	TRIPOINT K-10956-SV	MANUAL/ELECTRONIC	YES	1	10	-	-	3	4	2	VITREOUS CHINA, SIPHON JET, ELONGATED BOWL, WALL MOUNTED WITH 1-1/2" REAR SPUD . WATER CLOSET SHALL CONFORM TO ASME A112.19.2 AND ANSI A117.1. FLUSHOMETER SHALL BE FIXTURE MOUNT DESIGN, BRASS CONSTRUCTION, ELECTRONIC INFRARED SENSOR, AND DC STYLE WITH 1.5V AA BATTERIES.	PROVIDE ZURN Z1202 NO-HUB WATER CLOSET CARRIER SYSTEM FOR WATER CLOSETS AND P-TRAP.
WC-2	WATER CLOSET - FLUSH VALVE - WALL MOUNT - BARRIER FREE	KOHLER	KINGSTON K-4323	KOHLER	TRIPOINT K-10956-SV	MANUAL/ELECTRONIC	YES	1	10	-	-	3	4	2	VITREOUS CHINA, SIPHON JET, ELONGATED BOWL, WALL MOUNTED WITH 1-1/2" REAR SPUD . WATER CLOSET SHALL CONFORM TO ASME A112.19.2 AND ANSI A117.1. FLUSHOMETER SHALL BE FIXTURE MOUNT DESIGN, BRASS CONSTRUCTION, ELECTRONIC INFRARED SENSOR, AND DC STYLE WITH 1.5V AA BATTERIES.	PROVIDE ZURN Z1202 NO-HUB WATER CLOSET CARRIER SYSTEM FOR WATER CLOSETS AND P-TRAP.
UR-1	URINAL - FLUSH VALVE - WALL MOUNTED - BARRIER FREE	KOHLER	BARDON K-4991-ER	KOHLER	TRIPOINT K-10949-SV	MANUAL/ELECTRONIC	YES	3/4	5	-	-	2	2	2	VITREOUS CHINA WASHOUT URINAL, 3/4" REAR SPUD, 14" EXTENDED RIM, CONFORMS TO ASME A112.19.2, ANSI A117.1. FLUSHOMETER SHALL BE FIXTURE MOUNT DESIGN, BRASS CONSTRUCTION, ELECTRONIC INFRARED SENSOR, AND DC STYLE WITH 1.5V AA BATTERIES.	PROVIDE ZURN Z1222 URINAL CARRIER SYSTEM FOR WATER CLOSETS AND P-TRAP.
SH-1	SHOWER - VOLUME CONTROL WITH MIXING VALVE AND SHOWER DRAIN	SWAN	STF-3838 SWANSTONE	SYMMONS	TEMPTROL S-96-1-231-X-B	MANUAL	NO	1/2	3	1/2	3	1-1/2	2	1-1/2	38" X 38" COMPRESSION MOLDED SOLID SURFACE SHOWER PAN. 3/4" LOW THRESHOLD ENTRY, WALL-TO-WALL TRENCH DRAIN SYSTEM WITH 304 STAINLESS STEEL GRATE. SLIP-RESISTANT, TEXTURED BOTTOM SURFACE. SHOWER VALVE TO HAVE PRESSURE BALANCING MIXING VALVE WITH INTEGRAL VOLUME CONTROL, ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, SHOWER HEAD WITH ARM AND FLANGE, INTEGRAL SERVICE STOPS, AND CHROME BRASS ESCUTCHEON ON VALVE.	PROVIDE P-TRAP, STRAINER, AND DRAIN
SH-2	SHOWER - HANDHELD TRIM WITH MIXING VALVE AND SHOWER DRAIN - BARRIER FREE - ADA	SWAN	STF-3838 SWANSTONE	SYMMONS	TEMPTROL S-96-300-B30-L-V	MANUAL	NO	1/2	3	1/2	3	1-1/2	2	1-1/2	38" X 38" COMPRESSION MOLDED SOLID SURFACE SHOWER PAN. 3/4" LOW THRESHOLD ENTRY, WALL-TO-WALL TRENCH DRAIN SYSTEM WITH 304 STAINLESS STEEL GRATE. SLIP-RESISTANT, TEXTURED BOTTOM SURFACE. SHOWER VALVE TO HAVE HAND SHOWER SYSTEM WITH LEVER HANDLES, PRESSURE BALANCING MIXING VALVE WITH INTEGRAL DIVERTER AND ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, 5 FOOT FLEXIBLE METAL HOSE WITH IN-LINE VACUUM BREAKER, WALL CONNECTION AND FLANGE, 30 INCH SLIDE BAR FOR HAND SHOWER MOUNTING, POLISHED CHROME FINISH.	PROVIDE P-TRAP, STRAINER, AND DRAIN
LS-1	LAUNDRY SINK - DROP IN	ADVANCE TABCO	DI-1-2012	ADVANCE TABCO	K-50	MANUAL	NO	1/2	2.25	1/2	2.25	1-1/2	2	1-1/2	23" X 21" X 12", 18 GAUGE. ONE PIECE SEAMLESS SINK BOWL. SELF RIMMING DESIGN WITH MOUNTING CLIPS. FAUCET SHALL BE DECK MOUNTED 8" SWING SPOUT, 4" O.C., LEAD FREE.	PROVIDE ADDITIONAL ADVANCE TABCO DTA-53 SPLASH MOUNT PRERINSE FAUCET NEXT TO SINK. SEE ARCHITECTURAL SHEETS FOR MORE INFO. PROVIDE SEDIMENT/LINT P-TRAP.
SK-1	PREP SINK - UNDER MOUNT	ADVANCE TABCO	1620A-12	ADVANCE TABCO	K-132	MANUAL	NO	1/2	1	1/2	1	1-1/2	2	1-1/2	ONE PIECE 16" X 20" X 12" SEAMLESS STAINLESS STEEL BOWL. 18 GAUGE TYPE 304 STAINLESS STEEL. FAUCET SHALL BE DECK MOUNTED 5-1/2" GOOSENECK SPOUT, 8" O.C., BRASS CHROME PLATED BODY AND SPOUT, CHROME PLATED HANDLES, AND LEAD FREE.	PROVIDE P-TRAP, STRAINER, AND DRAIN
SK-2	HAND SINK - UNDER MOUNT	ADVANCE TABCO	1620A-10	ADVANCE TABCO	K-132	MANUAL	NO	1/2	1	1/2	1	1-1/2	2	1-1/2	ONE PIECE 16" X 20" X 12" SEAMLESS STAINLESS STEEL BOWL. 18 GAUGE TYPE 304 STAINLESS STEEL. FAUCET SHALL BE DECK MOUNTED 5-1/2" GOOSENECK SPOUT, 8" O.C., BRASS CHROME PLATED BODY AND SPOUT, CHROME PLATED HANDLES, AND LEAD FREE.	PROVIDE P-TRAP, STRAINER, AND DRAIN
SK-3	TWO-COMPARTMENT SINK - KITCHEN	ADVANCE TABCO	FC-2-2424-18RL	ADVANCE TABCO	K-101	MANUAL	NO	1/2	1	1/2	1	1-1/2	2	1-1/2	16 GAUGE 304 STAINLESS STEEL TWO BASIN SINK WITH ADJUSTABLE HEIGHT, STAINLESS STEEL LEGS, ADJUSTABLE FRONT TO BACK CROSS BRACING, ROLLED RIM EDGE, 8" O.C. FAUCET HOLES. (2) DRAIN BOARDS. FAUCET SHALL BE SPLASH MOUNTED 8" SPOUT, 8" O.C., CHROME PLATED HANDLES, AND LEAD FREE.	PROVIDE ADDITIONAL ADVANCE TABCO DTA-53 SPLASH MOUNT PRERINSE FAUCET. SEE ARCHITECTURAL SHEETS FOR MORE INFO.
DF-1	DRINKING FOUNTAIN - SURFACE MOUNT- BILEVEL - ADA - REFRIGERATED	ELKAY	VRCHDTL8SC	-	-	MANUAL	NO	1/2	0.25	-	-	1-1/4"	1/2	1-1/2	ELKAY WALL MOUNT HEAVY DUTY VANDAL RESISTANT BI-LEVEL ADA COOLER NON-FILTERED REFRIGERATED STAINLESS. FEATURES SHALL INCLUDE HEAVY DUTY VANDAL RESISTANT. FURNISHED WITH VANDAL RESISTANT BUBBLER. MECHANICAL FRONT BUTTON ACTIVATION. UNIT SHALL BE CERTIFIED TO UL 399 AND CSA C22.2 NO 120. LEAD FREE DESIGN CERTIFIED TO NSF/ANSI 61 & 372.	
DF-2	DRINKING FOUNTAIN - SURFACE MOUNT - SINGLE - ADA - BOTTLE FILLER - FILTERED - REFRIGERATED	ELKAY	LZS8WSLK	-	-	MANUAL/ELECTRONIC	YES	1/2	0.25	-	-	1-1/4"	1/2	1-1/2	BOTTLE FILLING STATION WITH SINGLE ADA COOLER, FILTERED 8 GPH. FEATURES INCLUDE HANDS FREE, VISUAL FILTER MONITOR, FILTERED, LAMINAR FLOW, ANTI MICROBIAL, DRAIN. ELECTRONIC BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION. UNIT SHALL BE CERTIFIED TO UL 399 AND CSA C22.2 NO 120. LEAD FREE DESIGN CERTIFIED TO NSF/ANSI 61 & 372	
EM-1	EMERGENCY EYE/FACE WASH	HAWS	AXION 7360BT -7460BT	-	-	MANUAL	NO	3/4	-	3/4	-	1-1/2	-	-	WALL MOUNTED EYE/FACE WASH SHALL INCLUDE A STAINLESS STEEL 11" ROUND BOWL. AN EYE/FACE WASH HEAD SUPPLIED BY AN INTEGRAL FLOW CONTROL, CHROME-PLATED BRASS STAY-OPEN BALL VALVE EQUIPPED WITH STAINLESS STEEL BALL AND STEM, AND CHROME-PLATED BRASS IN-LINE 50 X 50 MESH WATER STRAINER. UNIT SHALL ALSO INCLUDE CAST-ALUMINUM CHROMATE PROTECTED WALL BRACKET, YELLOW PLASTIC POP-OFF DUST COVER FOR EYEWASH HEAD, TAILPIECE, UNIVERSAL SIGN, 1/2" IPS INLET, AND 1-1/2" IPS WASTE	PROVIDE THERMOSTATIC MIXING VALVE HAWS MODEL 9201EW. OUTLET TEMPERATURE SHALL BE SET TO 85 DEGREES F.
HR-1	GARDEN HOSE REEL	REELCRAFT	GC83050 OLP	-	-	MANUAL	NO	3/4	-	-	-	-	-	-	SPRING RETRACTABLE WATER HOSE REEL. INCLUDES OUTLET HOSE WITH BRASS ON/OFF BALL VALVE, BUMPER, AND INLET HOSE. HOSE END FITTINGS, ADJUSTABLE GUIDE ARM. INDIVIDUALLY POWER-COATED STEEL PARTS.	FINAL LOCATION TO BE PROVIDED BY OWNER
JS-1	JANITOR SINK - FLOOR MOUNTED	ADVANCE TABCO	9-OP-40	ADVANCE TABCO	K-240	MANUAL	NO	3/4	2.25	3/4	2.25	3	2	1-1/2	FLOOR MOUNTED STAINLESS STEEL MOP SINK. 16"X 20"X 12" BOWL SIZE. SERVICE FAUCET SHALL BE WALL MOUNT, 8" OC, 6-1/2" SPOUT, WITH HOSE THREAD OUTLET AND PAIL HOOK, VACUUM BREAKER SPOUT, WALL BRACED, AND CHROME-PLATED BRASS.	INCLUDE HOSE BRACKET, HOSE, MOP HOLDER, AND WALL GUARDS.
HB-1	HOSE BIBB - INTERIOR WITH KEY	MURDOCK	8120-LF	-	-	-	-	3/4	-	-	-	-	-	-	HEAVY BRASS BODY, FURNISHED WITH A LOCKSHIELD BONNET AND REMOVABLE LOOSE KEY HANDLE. VACUUM BREAKERS ARE ATMOSPHERIC TYPE AND CONFORM TO ASSE STANDARD 1011. LEAD FREE.	
HB-2	WALL HYDRANT - FROST FREE	WATTS	HY-420	-	-	-	-	3/4	-	-	-	-	-	-	NON-FREEZE KEY OPERATED WALL HYDRANT WITH CHROME PLATED FACE, INTEGRAL VACUUM BREAKER, ALL BRONZE HEAD, BRONZE WALL CASING, AND LOOSE KEY. COMPLY WITH ASME B1.20.7 AND ASSE 1019-2004	
HB-3	HOSE BIBB - HOT AND COLD	WOODFORD	MODEL 22	-	-	-	-	3/4	-	3/4	-	-	-	-	NON-FREEZE HOT AND COLD FAUCET. SEPERATE HOT AND COLD INLET TUBES TO ALLOW FOR MANUALLY OPERATED TEMPERATURE CONTROL WITH CROSS CONTAMINATION PROTECTION. PRESSURE RELIEF VALVES AND INTEGRAL BACKFLOW PROTECTION DEVICE. ASSE 1019 LISTED AND CSA, UPC APPROVED.	
FD-1	FLOOR DRAIN (CONCRETE FLOORS) - SEE NOTE 3	ZURN	Z415BL	-	-	-	-	-	-	-	-	3	2	2	FLOOR DRAIN, DURA-COATED CAST IRON BODY, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR W/ SEEPAGE SLOTS AND TYPE BL D.C.C.I., WIDE FLANGED HEAD AND POLISHED NICKEL BRONZE, LIGHT-DUTY STRAINER.	
TD-1	TRENCH DRAIN (APPARATUS BAY)	WATTS	DEAD LEVEL D	-	-	-	-	-	-	-	-	4	-	2	PRE-SLOPED TRENCH DRAIN SYSTEM WITH DUCTILE IRON FRAME, UV STABILIZED TALC-FILLED POLYPROPYLENE CHANNELS WITH INTEGRAL 4" NO HUB BOTTOM OR END OUTLETS. SYSTEM SHALL BE FRAME-ANCHORED, WITH GRATING TO SUIT DIN CLASS LOAD RATING. SYSTEM TO INCLUDE FRAME CONNECTORS, GRATE LOCKDOWNS, AND CONSTRUCTION COVERS.	SEE 'S' DRAWINGS FOR ASSOCIATED SLAB DETAILS
FS-1	FLOOR SINK	ZURN	Z1900	-	-	-	-	-	-	-	-	3	2	2	12" X 12" X 6" DEEP CAST IRON BODY AND SQUARE, LIGHT-DUTY GRATE WITH 1/2" SLOTTED OPENINGS, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, COMPLETE WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER.	
RD-1	ROOF DRAIN - COMBINATION	ZURN	Z165	-	-	-	-	-	-	-	-	SEE PLANS FOR SIZES	-	-	COMBINATION ROOF DRAIN AND OVERFLOW DRAIN, DURA-COATED CAST IRON BODIES WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS, DOUBLE DECK PLATE, AND LOW SILHOUETTE CAST IRON DOMES.	
DS-1	EMERGENCY DRAIN DOWNSPOUT	ZURN	Z199	-	-	-	-	-	-	-	-	SEE PLANS FOR SIZES	-	-	DOWNSPOUT NOZZLE. ALL NICKEL BRONZE BODY, DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE.	

NOTES:

1. CHROME PLATE ALL DRAIN PIPE, FITTINGS, P-TRAPS AND SUPPLY LINES THAT ARE EXPOSED, LOCATED WITHIN VANITIES OR ACCESSIBLE CABINETS OR BEHIND WATER CLOSETS.
2. MINIMUM CONNECTION SIZES INDICATED ARE EQUIPMENT CONNECTION SIZES OR CODE MINIMUM SIZES, SEE PLANS AND DIAGRAMS FOR ACTUAL SIZES REQUIRED.
3. ALL FLOOR DRAINS SHALL HAVE TRAP SEALS. MANUFACTURER: ZURN; Z1072.
4. INSULATE EXPOSED DRAIN AND SUPPLY PIPING FOR HANDICAPPED FIXTURES WITH TRUEBRO LAV GUARD.

H2M architects + engineers
538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 • www.h2m.com

CONSULTANTS:

MARK	DATE	DESCRIPTION

STATE OF NEW YORK — JONATHAN RICHARD MURDOCK — LICENSED PROFESSIONAL ENGINEER — 096440-1

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JRM	KJE		

PROJECT No:	DATE:	SCALE:
VGFD2001	JULY 2022	AS SHOWN

CLIENT

VAILS GATE FIRE DISTRICT

New Storage Building (Phase I)
New Fire Station (Phase II)

872 Blooming Grove Turnpike
New Windsor, NY 12553

CONTRACT

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SHEET TITLE

PLUMBING FIXTURE SCHEDULE AND SPECIFICATIONS

DRAWING No.

P2 002.00

PUMP SCHEDULE

PUMP NO.	LOCATION	TYPE	SERVICE	GPM (EA)	TDH (FT)	MOTOR DATA					REMARKS
						RPM	HP (EA)	PHASE	CYCLE	VOLTS	
CP-1	MECH ROOM	SIMPLEX	TEMPERED WATER RECIRC	2	5	3250	1/25	1	60	115 V	TACO MODEL: 007-F5. INCLUDE TACO AQUASTAT 563-2 AND 265-3 DIGITAL TIMER.
CP-2	MECH ROOM	SIMPLEX	HOT WATER RECIRC	2	4	3250	1/40	1	60	115 V	TACO MODEL: 006-ST4. INCLUDE TACO AQUASTAT 563-2 AND 265-3 DIGITAL TIMER.
EP-1	ELEVATOR	SIMPLEX SUBMERSIBLE	ELEVATOR PIT	50	20	3450	1/2	1	60	115 V	PACKAGED UNIT ZOELLER 940-0013, OIL SMART

EXPANSION TANKS

EQUIPMENT NO.	LOCATION	SYSTEM SERVED	PERFORMANCE/CONSTRUCTION REQUIREMENTS			EQUIPMENT SPECIFICATIONS				
			SYSTEM DATA			MNF	MODEL NO.	DIMENSION DIA. x H	WATER CONNECTION	OPERATING WEIGHT (LBS.)
			ESTIMATED VOLUME (GAL.)	MAX. OPERATING PRESS. RANGE (PSIG)	MAX. OPERATING TEMP. RANGE (DEG. F)					
ET-1	MECH ROOM	BUILDING	4.4	150	200	AMTROL	ST-12	11" X 15"	3/4"	9

MIXING VALVE STATION

EQUIPMENT NO.	LOCATION	BASIS OF DESIGN INFORMATION					
		MAXIMUM PRESSURE RANGE	MINIMUM FLOW	MAXIMUM FLOW	MANUFACTUER	MODEL	NOMINAL DIMENSIONS (W X H)
MV-1	MECH ROOM	200 PSI	0.25 GPM	32 GPM	LEONARD	PNV-100-LF	8-1/2" X 9"

INTERCEPTORS

EQUIPMENT NO.	LOCATION	BASIS OF DESIGN INFORMATION							REMARKS
		FLUID	FLOW (GPM)	CAPACITY (GAL)	INLET AND OUTLET SIZE	MANUFACTUER	MODEL	NOMINAL DIMENSIONS (L X W X H)	
GT-1	PANTRY	GREASE	35	70	3"	SCHIER	GB2	35" X 23" X 13-3/4"	PROVIDE EXTENSION COLLAR AS REQUIRED DEPENDING ON PIPE INVERTS.
OS-1	APPARATUS BAY	OIL	35	350	4"	HIGHLAND TANK	HTC 350	72" X 42" DIA.	PROVIDE EXTENSION COLLAR AS REQUIRED DEPENDING ON PIPE INVERTS.
LT-1	LAUNDRY ROOM	LINT WASTE	70	45	3"	WATTS	LI-807	25" X 25" X 20"	LINT INTERCEPTOR TO BE PLACED WITHIN CONCRETE PIT. SEE STRUCTURAL PLANS FOR MORE DETAIL.

WATER HEATER [GAS]

EQUIPMENT NO.	LOCATION	SYSTEM SERVED	BASIS OF DESIGN INFORMATION							EQUIPMENT SPECIFICATIONS						MINIMUM PERFORMANCE OF WATER HEATING (NYSECC TABLE C404.2)				REMARKS
			GAS INPUT (BTU)	GAS INLET PRESS. (IN W.C)	EFFICIENCY	RECOVERY GPH AT 100 DEG RISE	WATER CONNECTION	GAS CONNECTION	FLUE SIZE	MNF	MODEL NO.	NOMINAL DIMENSION DIA x H	CAPACITY (GAL)	NOMINAL OPERATING WEIGHT (LBS.)	VOLTS / PHASE	EQUIPMENT TYPE	SIZE CATEGORY	SUBCATEGORY	PERFORMANCE REQUIRED	
WH-1	MECH ROOM	BUILDING	199,000	3.5 - 14	97%	235	1-1/2"	3/4"	3"	AO SMITH	BTH-199	27-3/4" X 76-1/2"	100	523	120/1	STORAGE WATER HEATER, GAS	> 155,000 BTU/H	< 4,000 BTU/H/GAL	80 PERCENT EFFICIENCY	HEATERS TO INCLUDE: CONCENTRIC VENT KIT; ALARM BELL; CONDENSATE NEUTRALIZATION KIT.

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538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 • www.h2m.com

CONSULTANTS:

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JRM	KJE		

PROJECT No:	DATE:	SCALE:
VGFD2001	JULY 2022	AS SHOWN

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New Fire Station (Phase II)

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New Windsor, NY 12553

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STATUS

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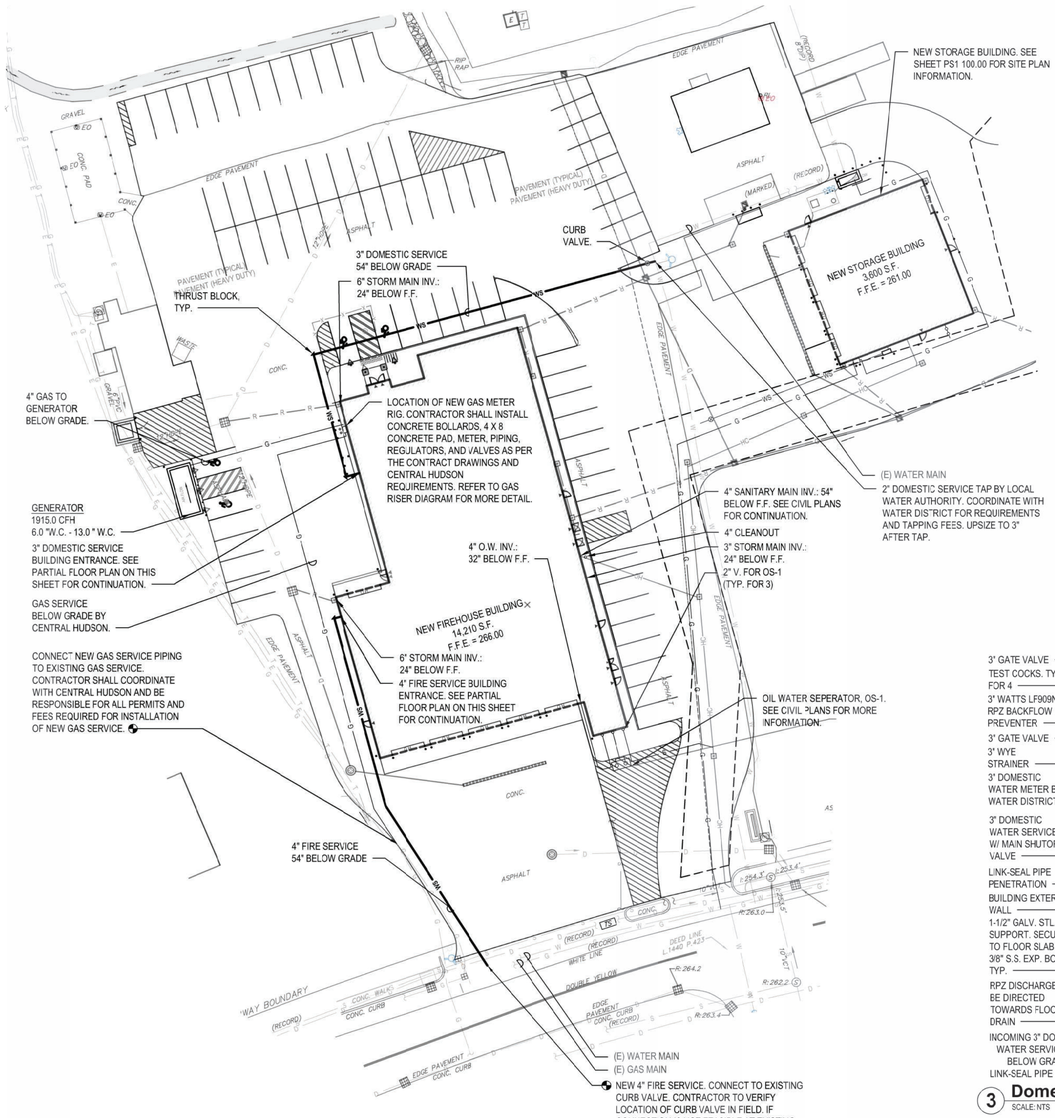
SHEET TITLE

PLUMBING EQUIPMENT SCHEDULE

DRAWING No.

P2 003.00



1 Plumbing Site Plan
SCALE: 1" = 30'-0"

2 Site Map
SCALE: NTS

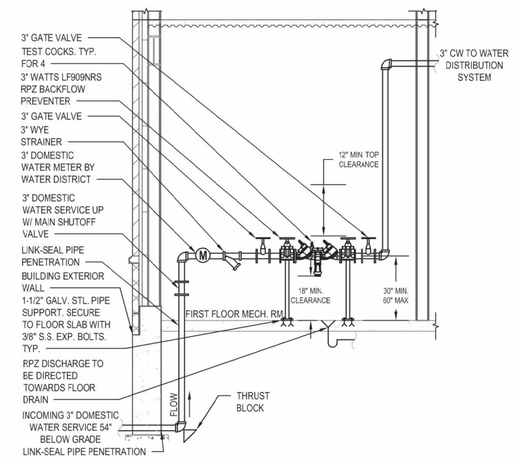
ORANGE COUNTY TAX NUMBER
SECTION: 65 BLOCK: 2 LOT(S): 28

DOMESTIC WATER AND FIRE SERVICE BACKFLOW PREVENTION DEVICE GENERAL NOTES:

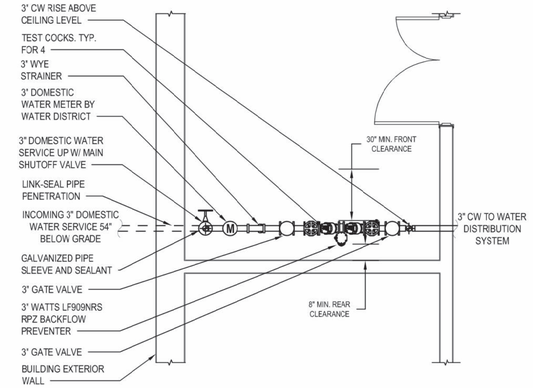
1. INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE COUNTY DEPARTMENT OF HEALTH SERVICES, NEW YORK STATE HEALTH DEPARTMENT REGULATIONS, AND TOWN OF NEW WINDSOR WATER DISTRICT REQUIREMENTS.
2. ALL CONNECTIONS ON THE WATER SERVICE SHALL BE DOWNSTREAM FROM THE BACKFLOW PREVENTION DEVICE. BYPASSING OF A BACKFLOW PREVENTION DEVICE IS A VIOLATION OF NEW YORK STATE HEALTH DEPARTMENT RULES AND REGULATIONS.
3. THE CONTRACTOR SHALL ENGAGE A CERTIFIED BACKFLOW PREVENTION DEVICE TESTER TO TEST THE BACKFLOW PREVENTION DEVICE AFTER INSTALLATION. IT IS THE OWNER'S RESPONSIBILITY TO HAVE EACH DEVICE CERTIFIED AT LEAST ANNUALLY WITH RESULTS REPORTED TO THE NEW WINDSOR WATER DISTRICT AND TO THE COUNTY DEPARTMENT OF HEALTH ON NY STATE FORM GEN 215. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELATED TESTING AND APPLICATION FEES.
4. SHUT-OFF VALVES ON DOMESTIC WATER SERVICE BFP DEVICE SHALL BE NRS GATE VALVES AND SHALL BE SAME MANUFACTURER AS BFP DEVICE.
5. SHUT-OFF VALVES ON FIRE SERVICE BFP DEVICE SHALL BE INDICATING TYPE AND SHALL BE SAME MANUFACTURER AS BFF DEVICE.
6. TEST COCKS ON THE BFP DEVICE SHALL BE POSITIONED TO FACILITATE TESTING WITH 30" MINIMUM CLEARANCE.
7. BACKFLOW DEVICES MAY NOT BE MODIFIED IN ANY WAY DURING INSTALLATION.
8. DOMESTIC WATER AND FIRE SERVICE LINE TO BE CLASS 52 DUCTILE IRON AND SHALL HAVE A MINIMUM OF 4'-6" OF COVER.
9. PIPING SHALL BE UN-BRANCHED AND UNRESTRICTED FROM THE SUPPLY MAIN TO THE DEVICE, EXCEPT FOR THE METER ON THE DOMESTIC SERVICE.
10. CONTRACTOR SHALL PROVIDE APPRCPRIATE FLOOR/WALL SUPPORTS FOR ALL DEVICES AND PIPING. ALL SUPPORTS/HANGERS/CLAMPS SHALL BE GALVANIZED STEEL.
11. BACKFLOW DEVICES SHALL BE APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FCUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.
12. THE ROOM AND ENCLOSURE WHERE THE DEVICES ARE LOCATED SHALL BE HEATED AND SHALL HAVE LIGHTING.
13. DEVICE MAY NOT BE INSTALLED HIGHER THAN 5'-6" ABOVE THE FLOOR OR A FIXED PLATFORM IS REQUIRED.
14. NO ADDITIONAL PRIVATE FIRE HYDRANTS TO BE INSTALLED.
15. WATER SERVICE LINES TO MAINTAIN A MINIMUM CLEARANCE OF 10'-0" FROM GAS SERVICE, SEWER LINES, DRAINAGE LINES, UTILITY POLES AND TREES, ETC. WATER SERVICE LINES TO MAINTAIN A MINIMUM CLEARANCE OF 5' 0" FROM ELECTRICAL SERVICE LINES.
16. BACKFLOW PREVENTION DEVICES TO HAVE A MINIMUM OF 30" CLEARANCE FROM ANY OBSTRUCTION.

SERVICE FEE NOTE:

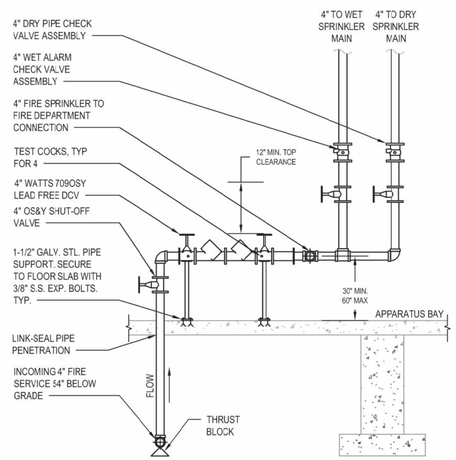
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED TAP, PERMIT AND METER FEES FOR WATER AND GAS SERVICES. CONTRACTOR SHALL PROVIDE A 20,000 DOLLAR ALLOWANCE TO COVER ALL FEES ASSOCIATED WITH CONNECTING NEW WATER AND GAS SERVICES TO EXISTING MAINS, AND INSTALLATION AND FURNISHING OF UTILITY METERS AND METER RIGS.



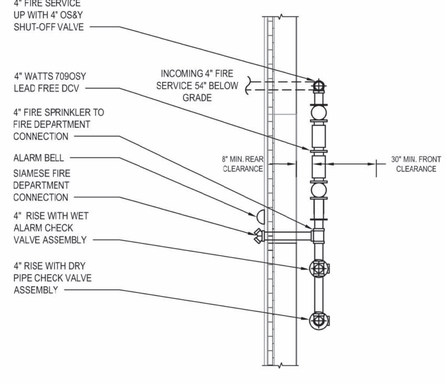
3 Domestic Service BFP Device Section View Detail
SCALE: NTS



4 Domestic Service BFP Device Plan View Detail
SCALE: NTS



5 Fire Service BFP Device Section View Detail
SCALE: NTS



6 Fire Service BFP Device Plan View Detail
SCALE: NTS

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538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
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CONSULTANTS:

MARK	DATE	DESCRIPTION

STATE OF NEW YORK — JONATHAN RICHARD MURCHISON — 096440-1 — LICENSED PROFESSIONAL ENGINEER

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY
JRM	KJE		
PROJECT No.:	DATE:	SCALE:	
VGFD2001	JULY 2022	AS SHOWN	

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SHEET TITLE

PLUMBING SITE PLAN - MAIN FIRE HOUSE

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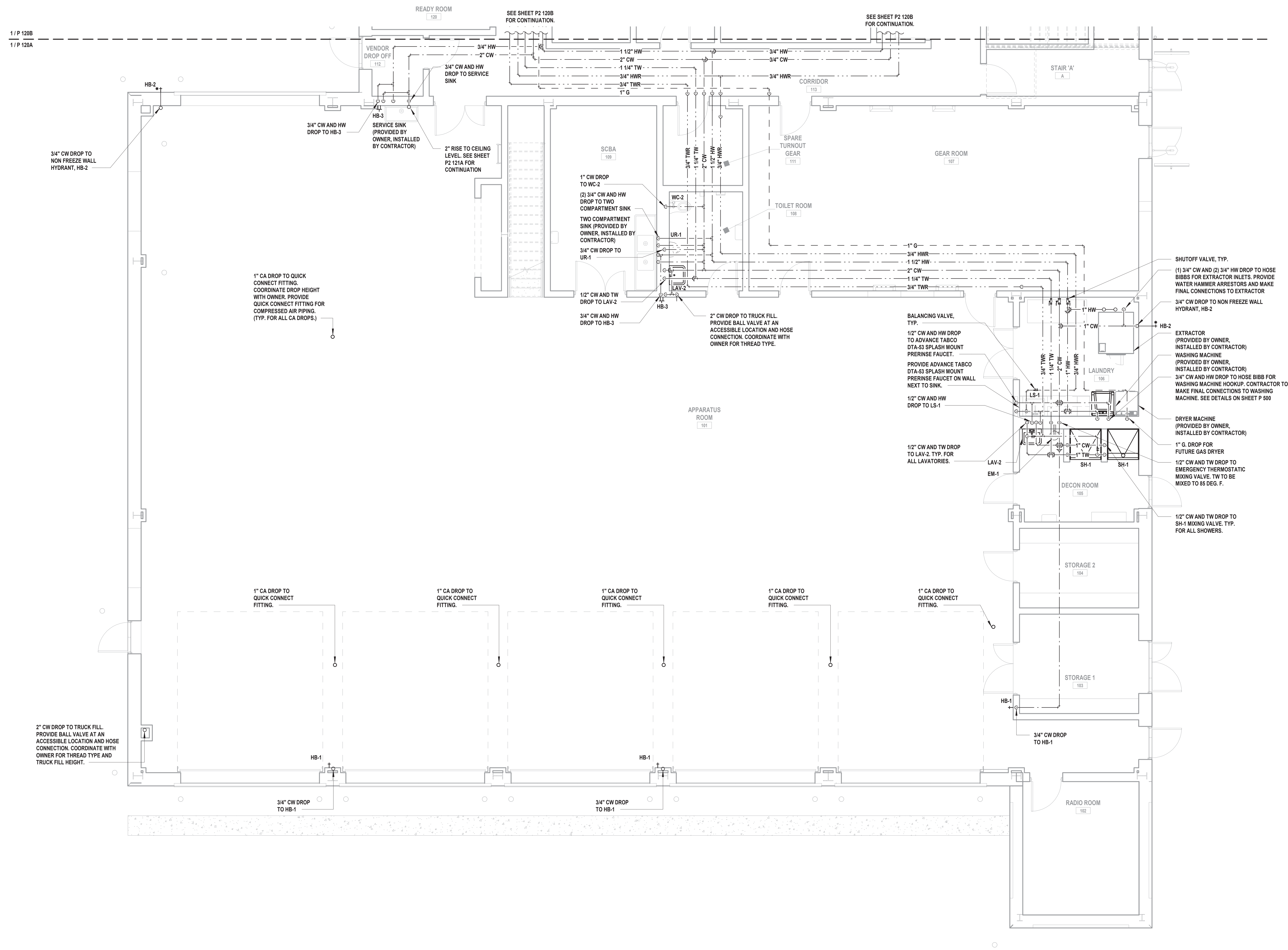
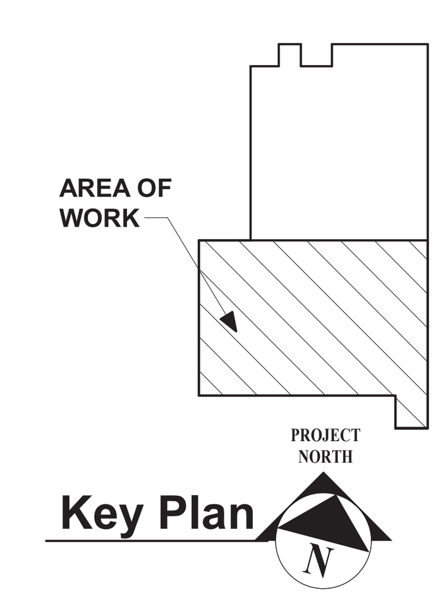


1 Domestic Water and Gas First Floor Plan - Area A

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

PROJECT NORTH



Key Plan

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7/18/2022 8:12:25 AM

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CONSULTANTS:

MARK	DATE	DESCRIPTION

STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER — 096440-1

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VAILS GATE FIRE DISTRICT

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VAILS GATE FIRE DEPT. EST. 1910 N.Y.

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New Windsor, NY 12553

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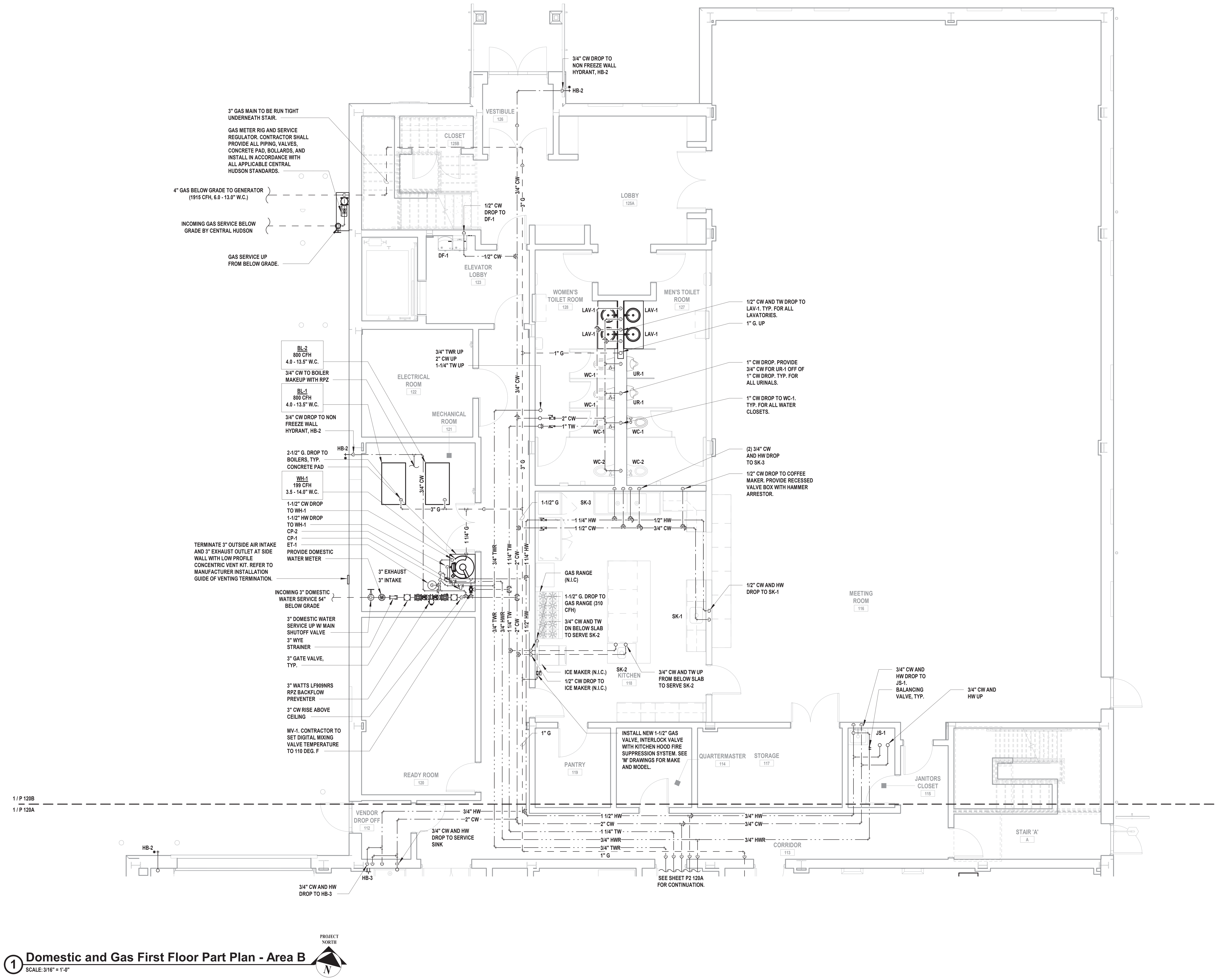
SHEET TITLE

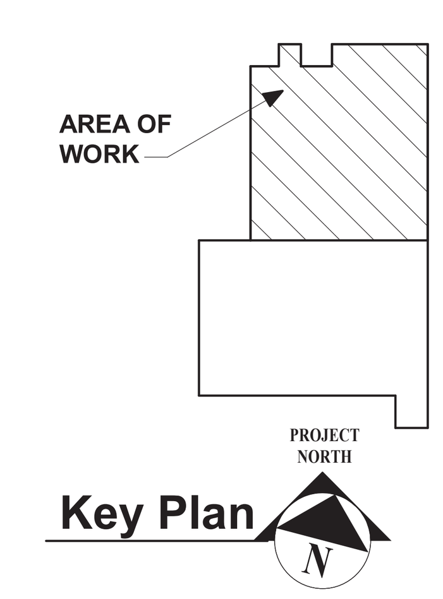
PARTIAL DOMESTIC WATER AND GAS FIRST FLOOR PLAN
NEW FIRE HOUSE
PHASE 2

DRAWING No.

P2 120A.00



1 Domestic and Gas First Floor Part Plan - Area B
SCALE: 3/16" = 1'-0"



Key Plan

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New Fire Station (Phase II)

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PARTIAL DOMESTIC WATER AND GAS FIRST FLOOR PLAN NEW FIRE HOUSE PHASE 2

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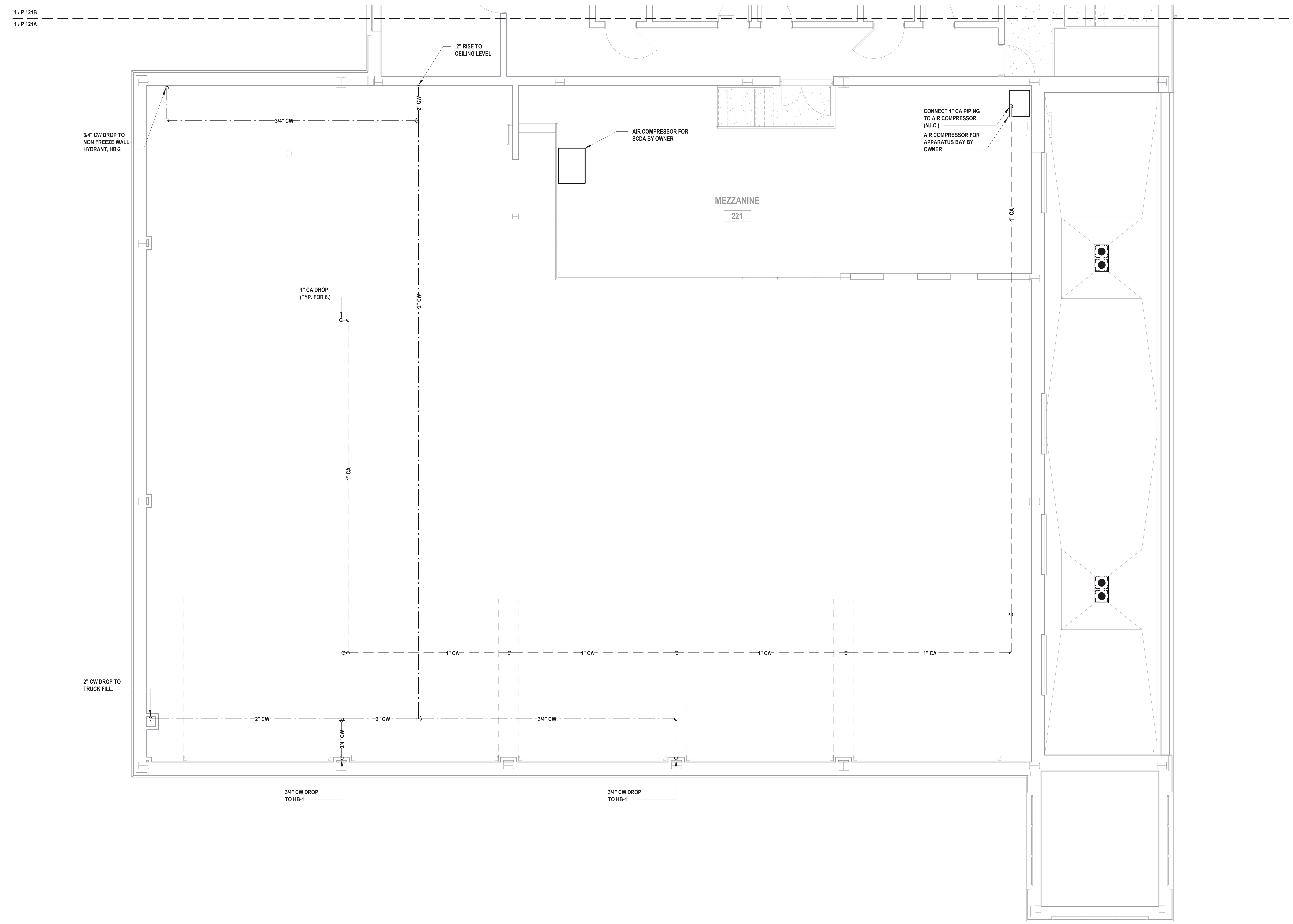

1 Domestic Water and Gas Second Floor Plan - Area A

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

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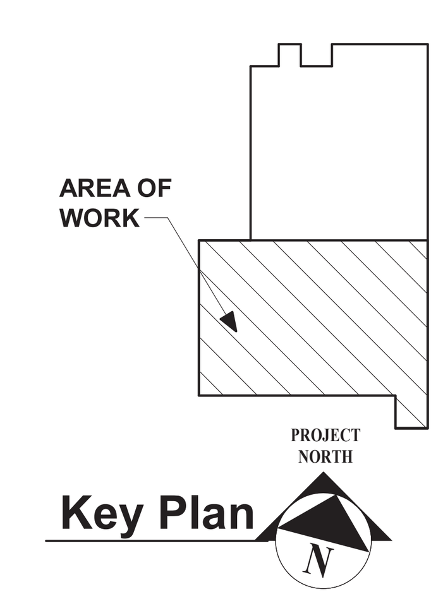

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PARTIAL DOMESTIC WATER AND GAS SECOND FLOOR PLAN
NEW FIRE HOUSE
PHASE 2

DRAWING No.

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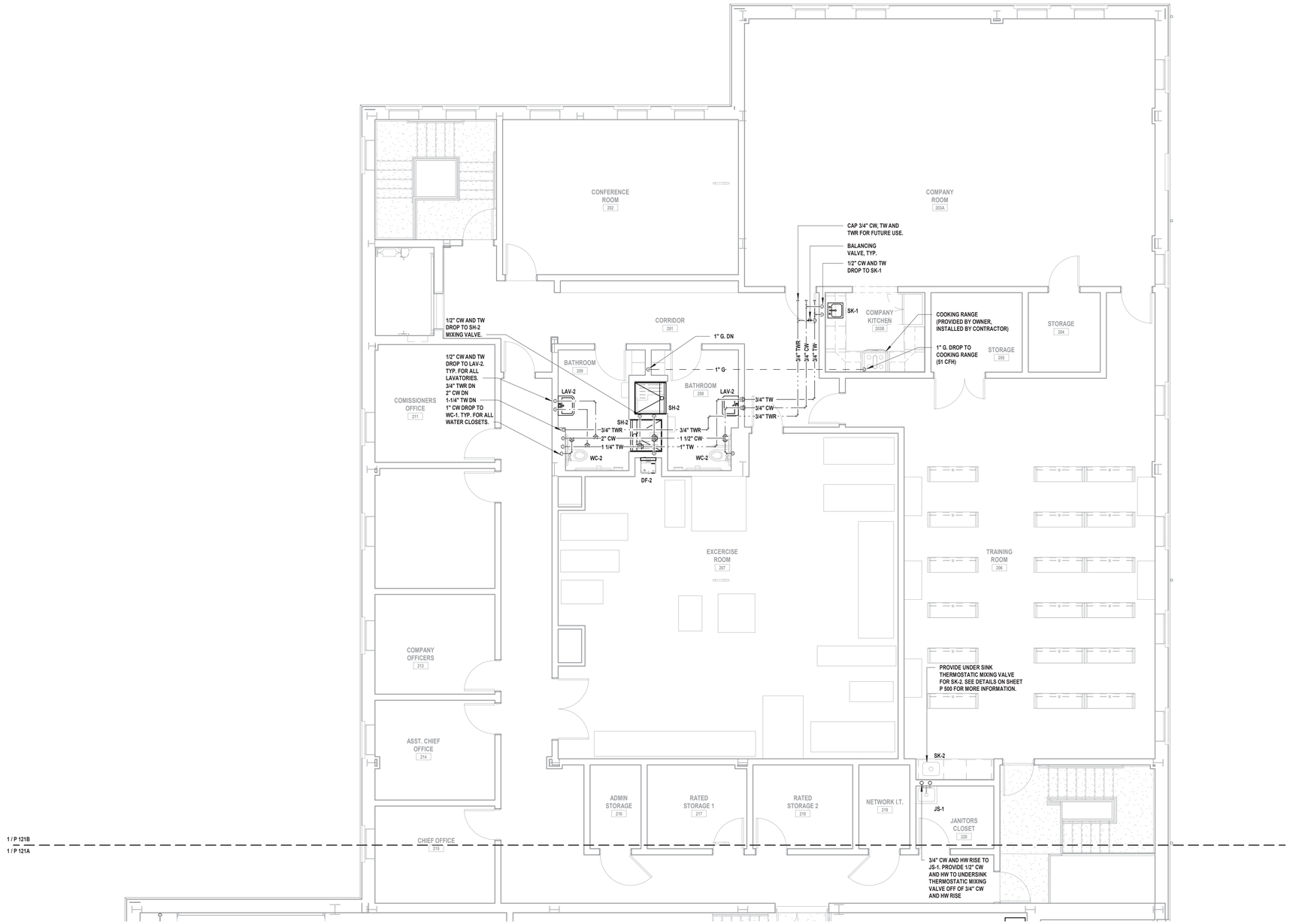

1 Domestic and Gas Second Floor Part Plan - Area B

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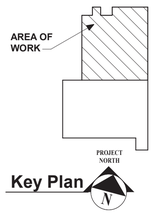

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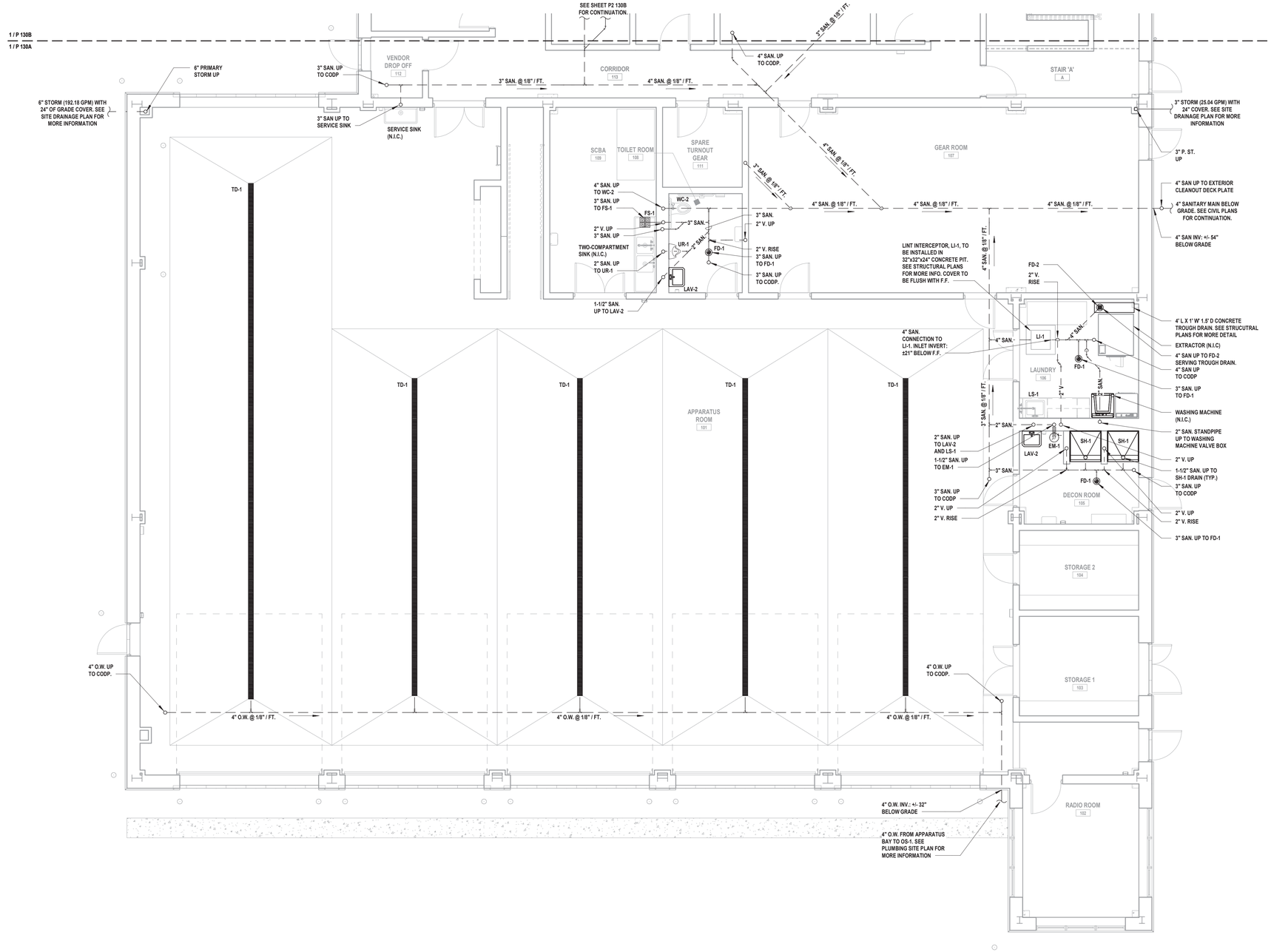

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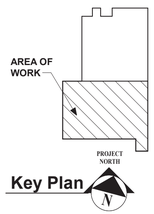

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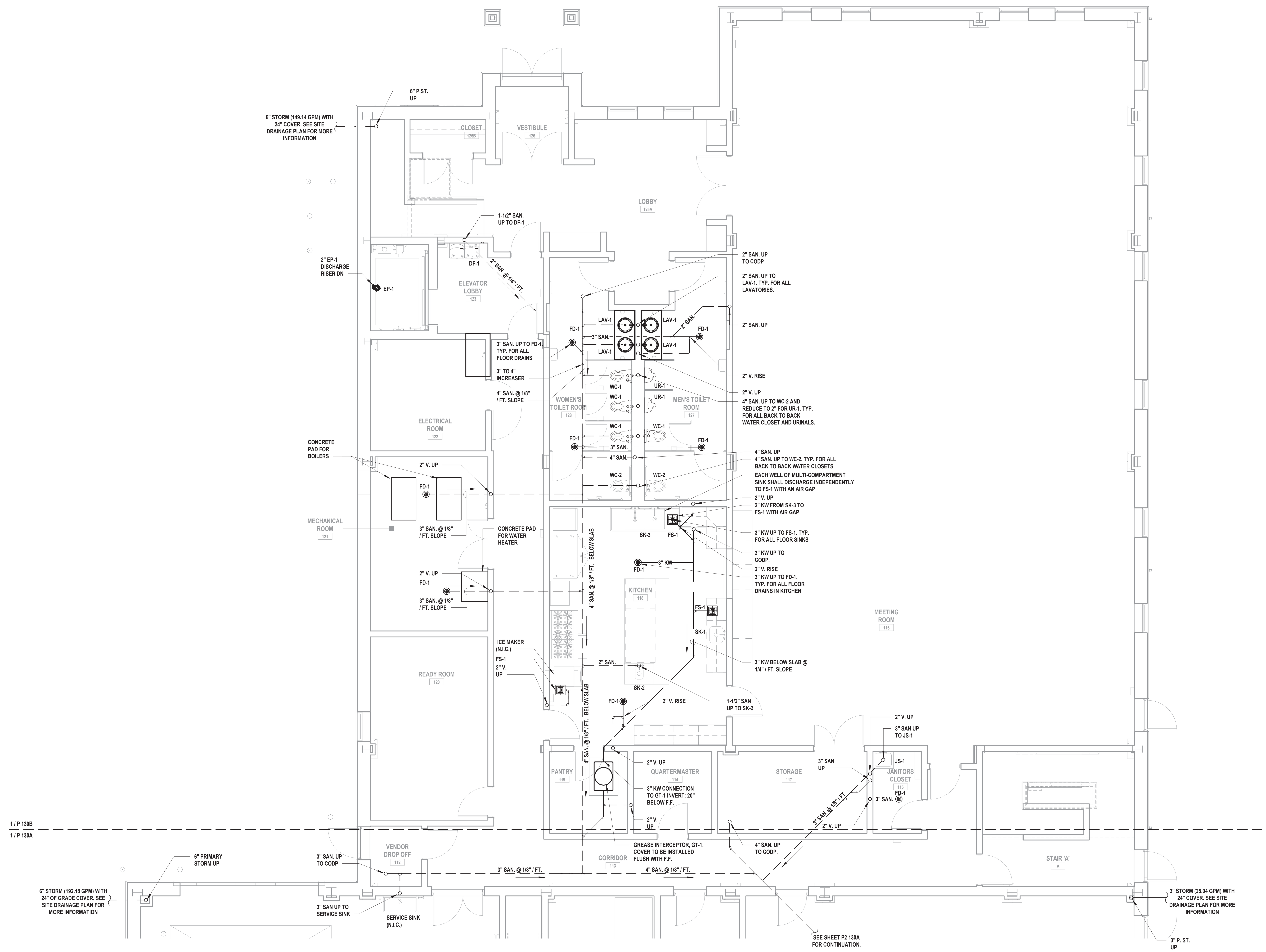

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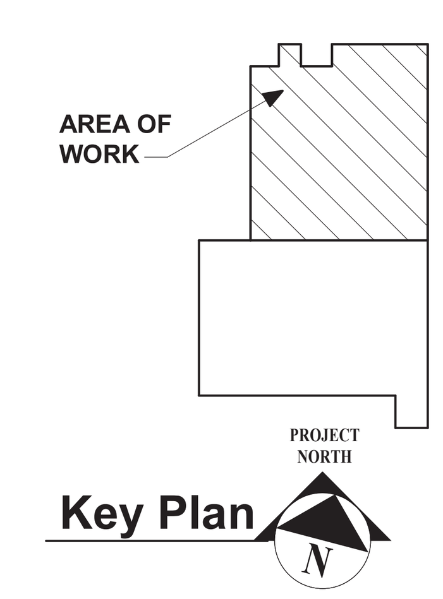

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PHASE 2

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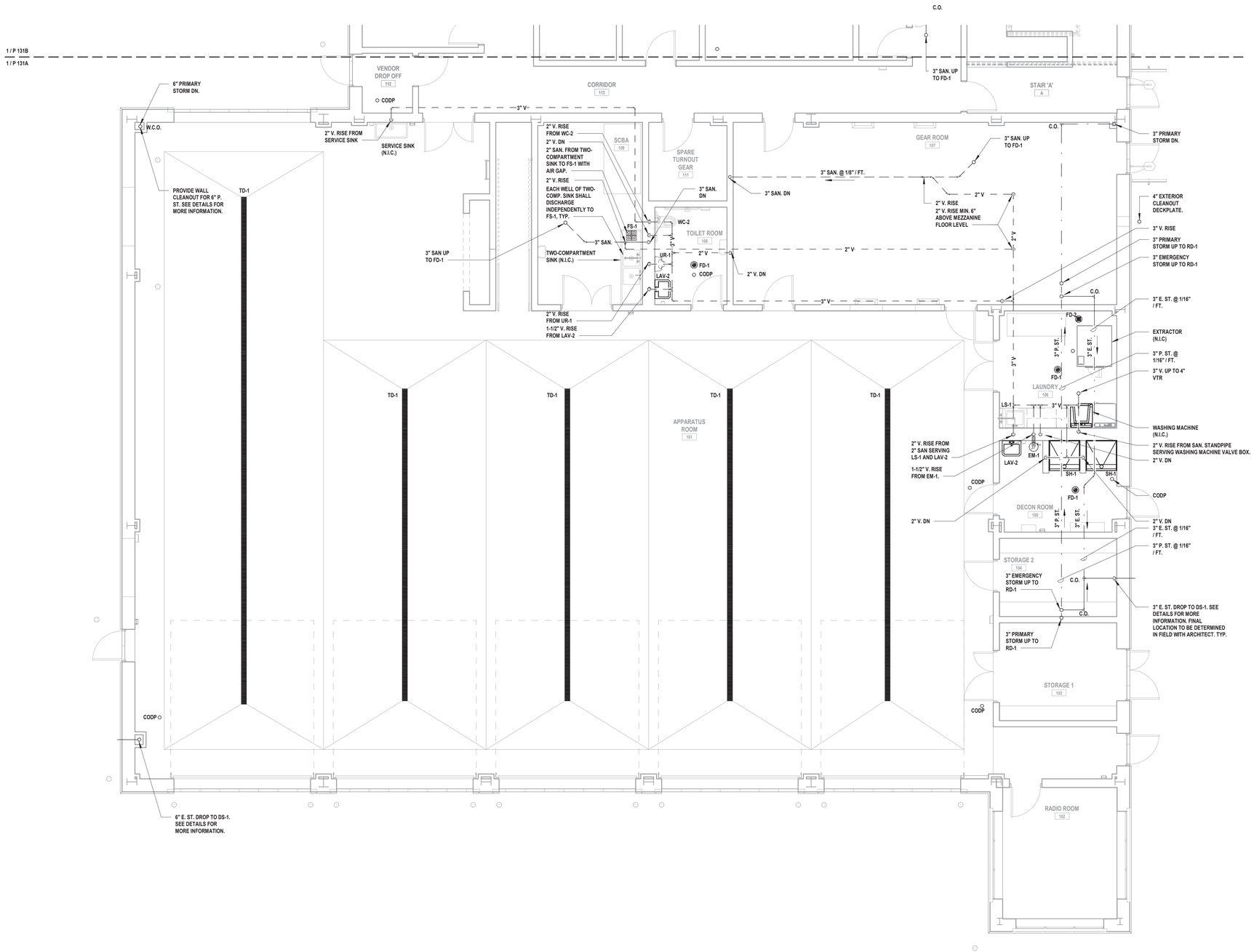

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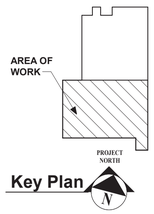
SCALE: 3/16" = 1'-0"

PROJECT NORTH



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PARTIAL SANITARY, VENT & STORM FIRST FLOOR PLAN NEW FIRE HOUSE PHASE 2

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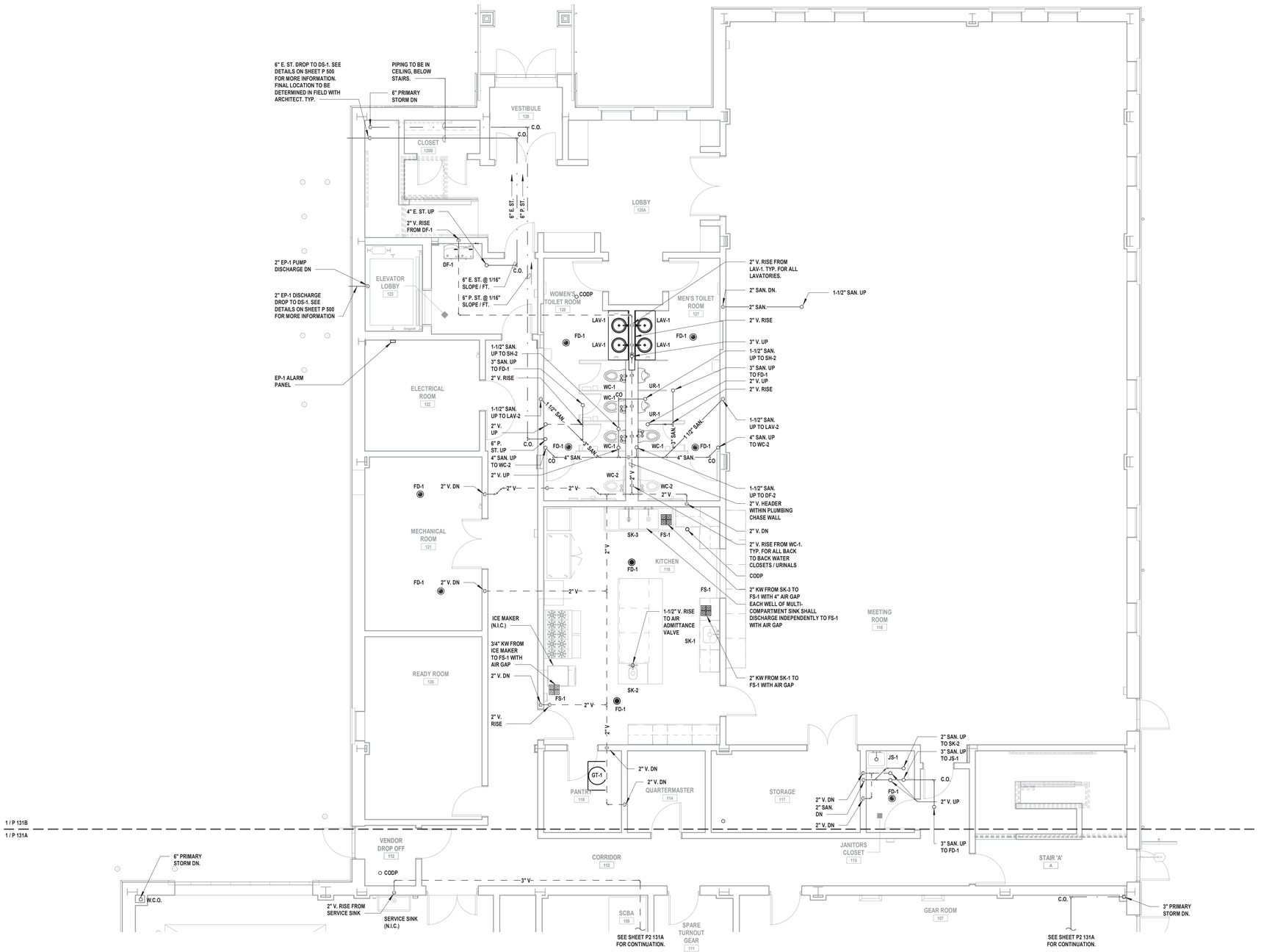

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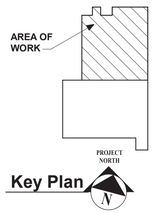

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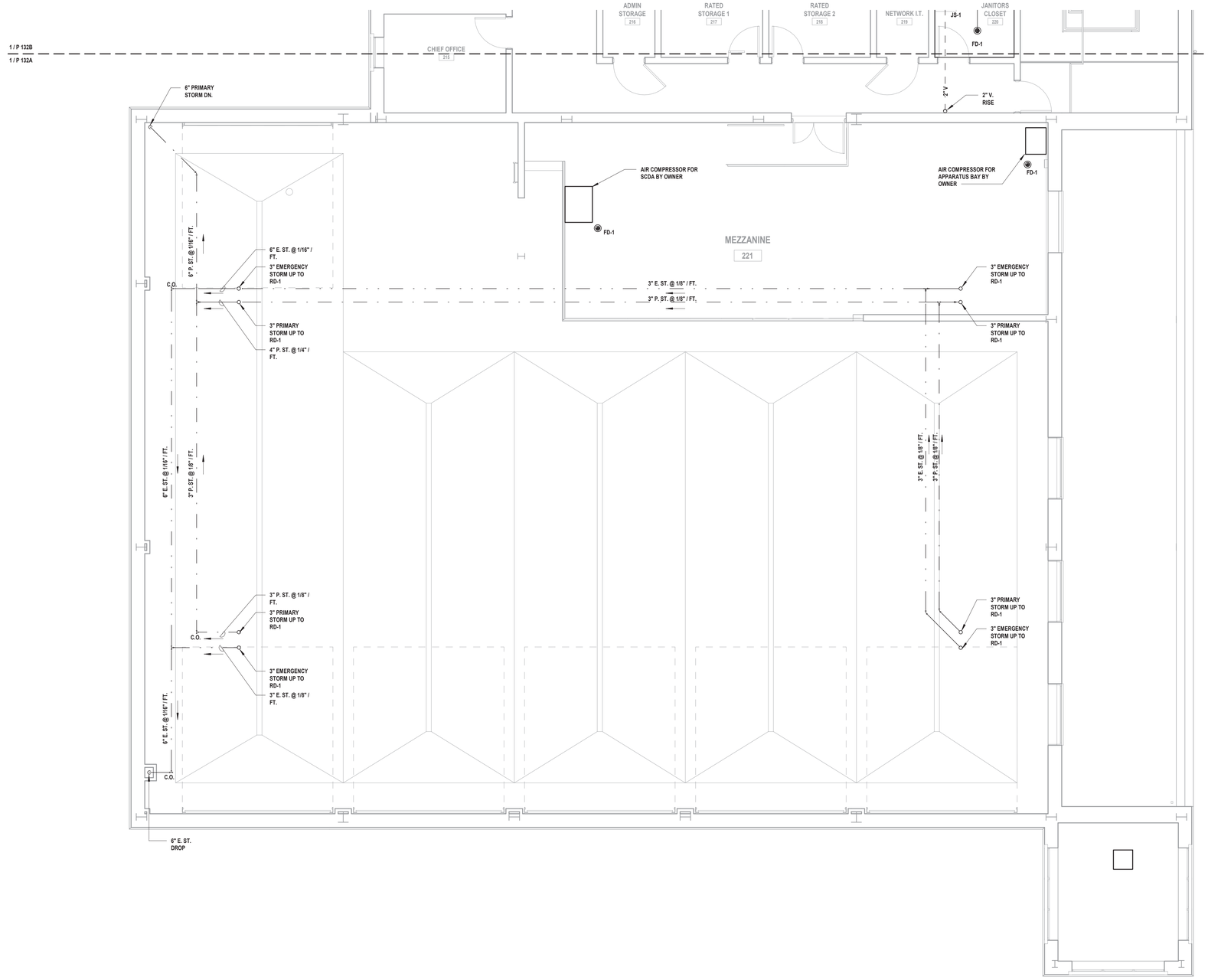

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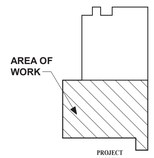
SCALE: 3/16" = 1'-0"

PROJECT NORTH



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PARTIAL SANITARY, VENT, & STORM SECOND FLOOR PLAN
NEW FIRE HOUSE
PHASE 2

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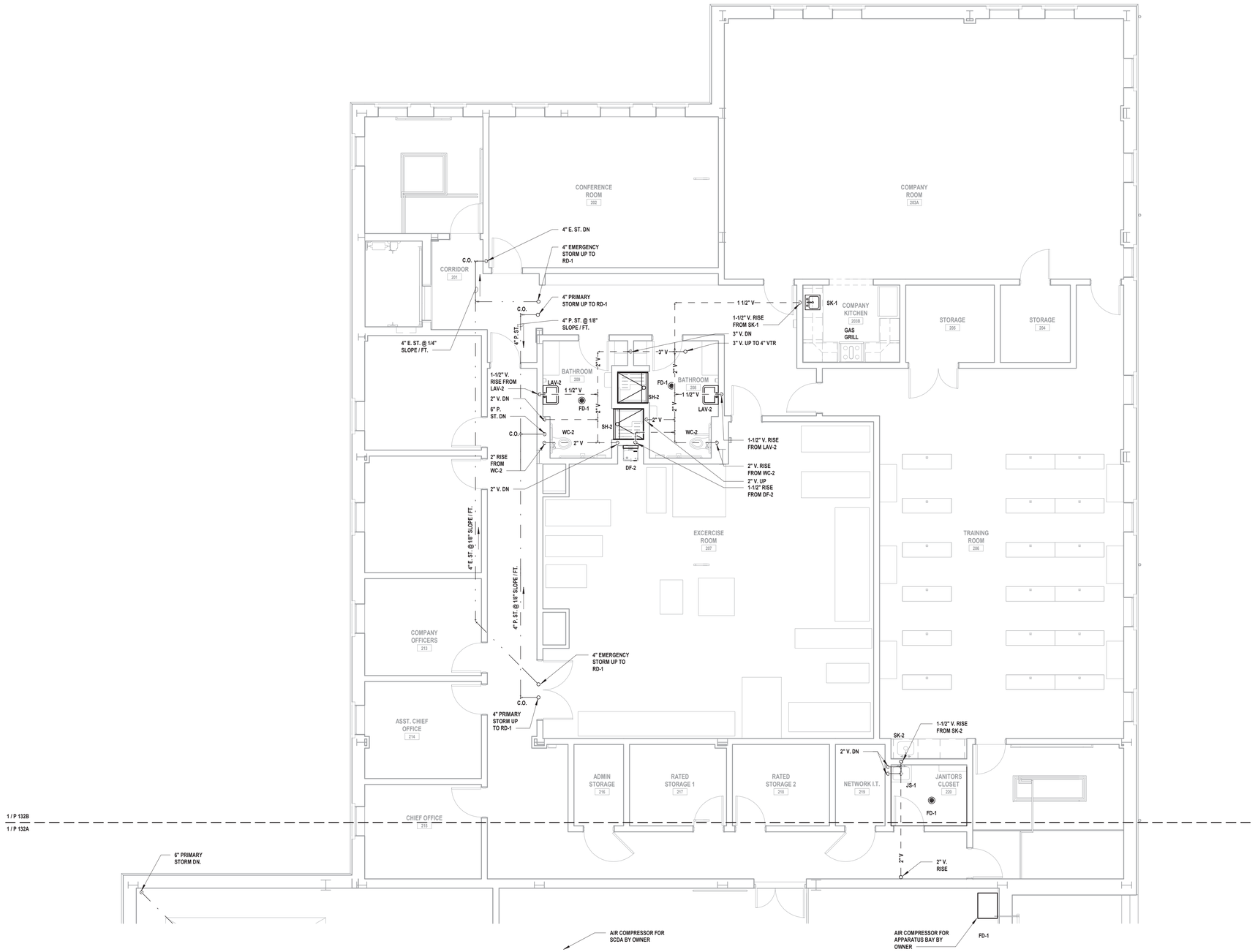

1 Sanitary, Vent and Storm Second Floor Part Plan - Part B

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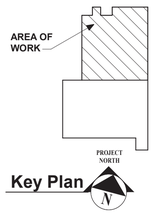

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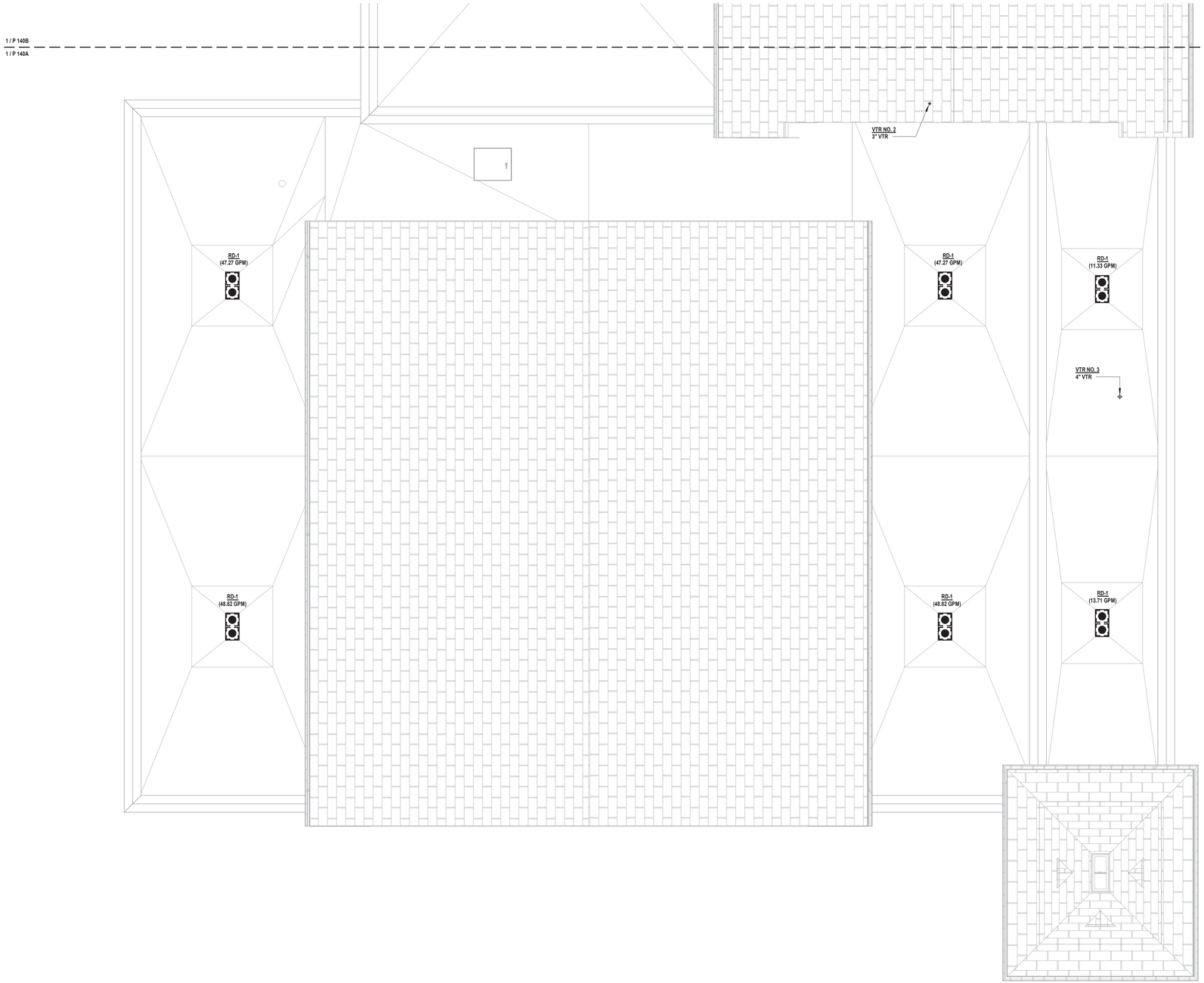
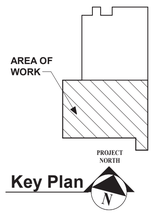


1 Plumbing Roof Plan - Part A
SCALE: 3/16" = 1'-0"



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PARTIAL ROOF PLAN
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PHASE 2

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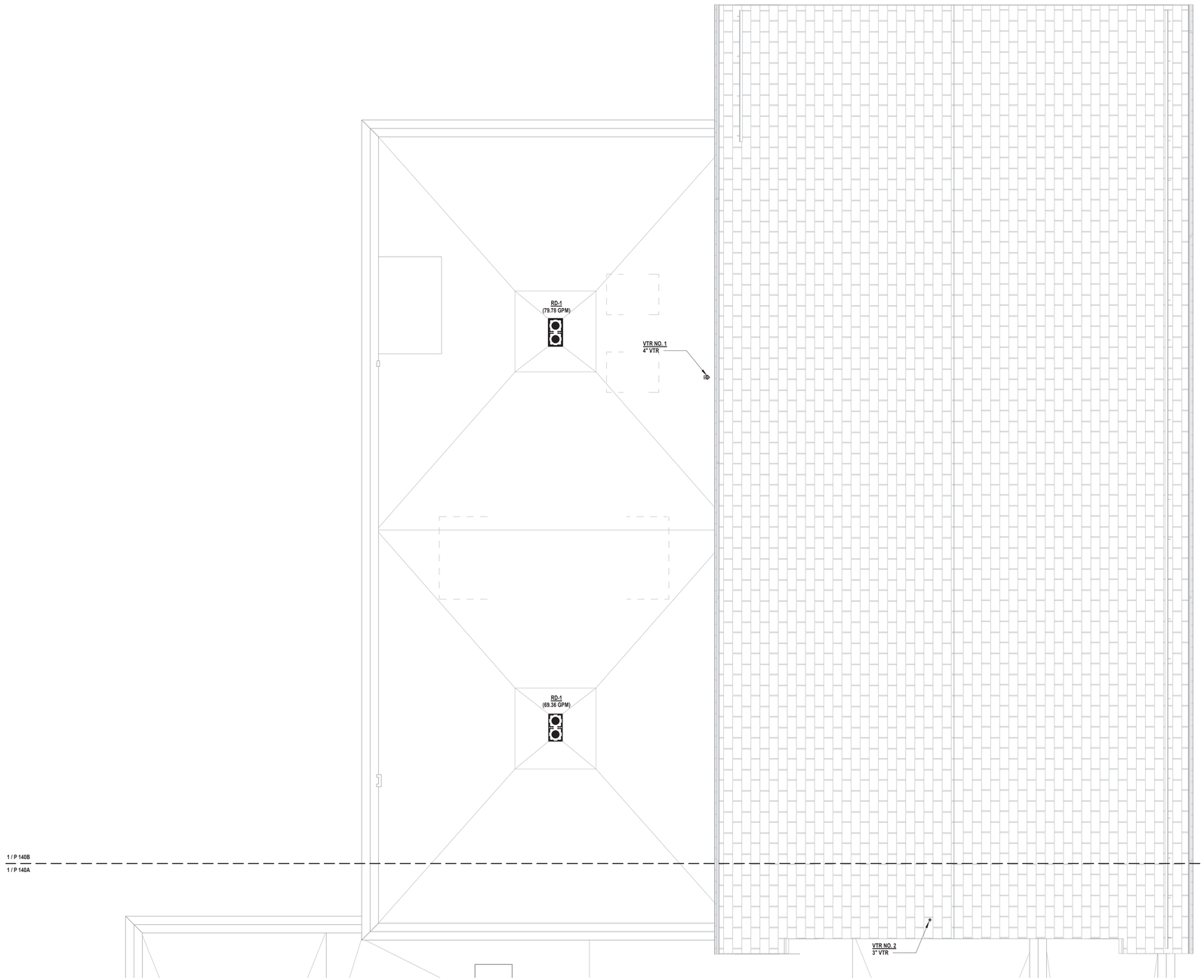

1 Plumbing Roof Plan - Part B
SCALE: 3/16" = 1'-0"

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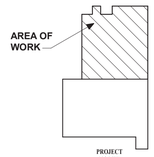

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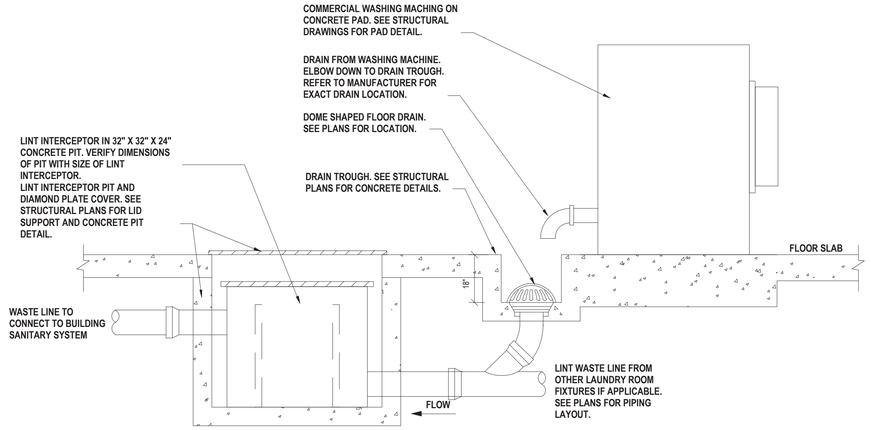


1 Lint Interceptor and Washing Machine Detail

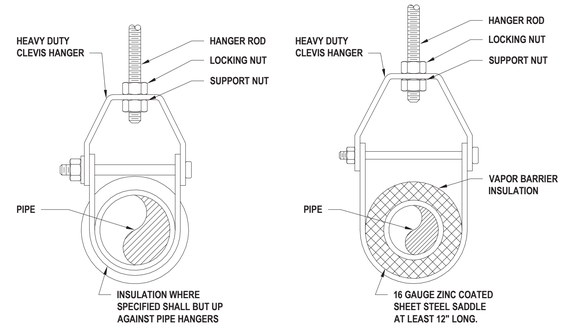
SCALE: NTS

HANGER SPACING

PIPING MATERIAL	MAX. HORIZONTAL (FT)	MAX. VERTICAL (FT)
ABS PIPE	4	10
ALUMINUM TUBING	10	15
BRASS PIPE	10	10
CAST-IRON PIPE	5	15
COPPER OR COPPER ALLOY PIPE	12	10
COPPER OR COPPER ALLOY PIPE 1¼"Ø OR SMALLER	6	10
COPPER OR COPPER ALLOY PIPE 1½"Ø OR LARGER	10	10
PEX	2.67	10
CPVC 1" OR SMALLER	3	10
CPVC 1-1/4" OR LARGER	4	10
STEEL PIPE	12	15
POLYETHYLENE /ALUMINUM/ POLYETHYLENE	2.67	4
PVC PIPE	4	10
STAINLESS STEEL DRAINAGE	10	10

HANGER ROD SCHEDULE

PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.	4" THRU 5"	5/8" DIA.
2 1/2" THRU 3"	1/2" DIA		



2 Pipe Hanger Detail

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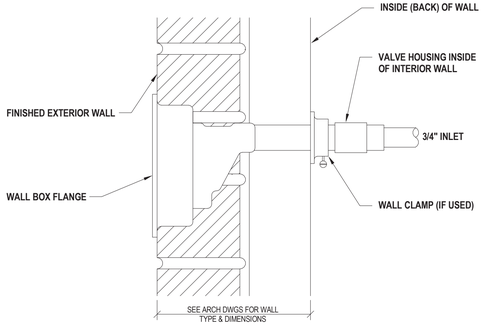
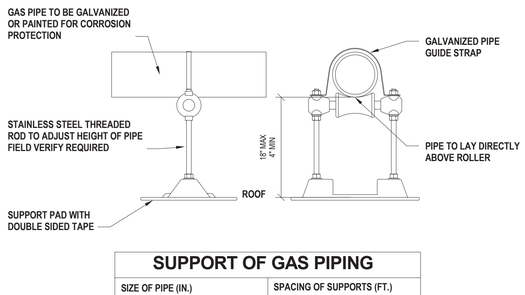


3 Freeze Proof Wall Hydrant Detail

SCALE: NTS

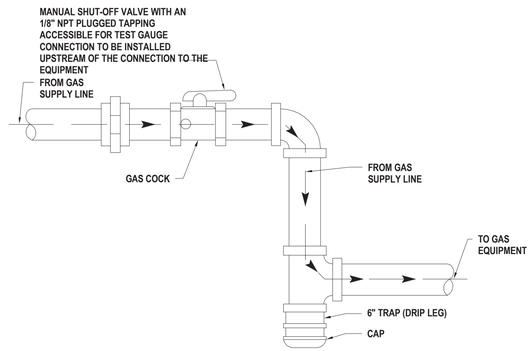


SUPPORT OF GAS PIPING

SIZE OF PIPE (IN.)	SPACING OF SUPPORTS (FT.)
1/2	6
3/4 OR 1	8
1-1/4 OR LARGER	10

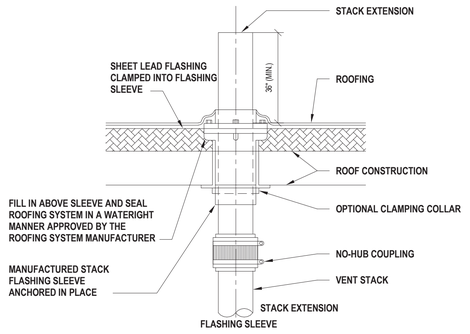
4 Roof Pipe Support Detail

SCALE: NTS



5 Typical Gas Connection Detail

SCALE: NTS

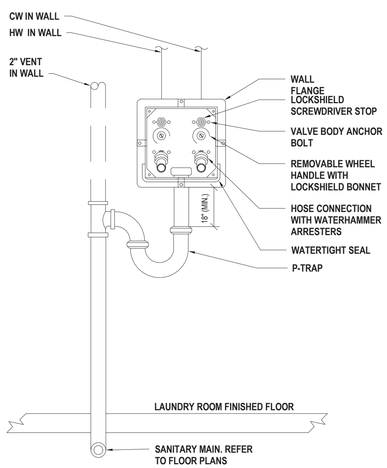


NOTES:

1. FINAL VENT STACK OUTLET LOCATION TO BE 15 FEET (MIN.) AWAY FROM ANY OUTSIDE VENTILATION AIR INTAKE LOCATION, 10 FEET (MIN.) FROM ANY WALL OR STRUCTURE AND 3 (MIN.) FEET ABOVE STRUCTURE.

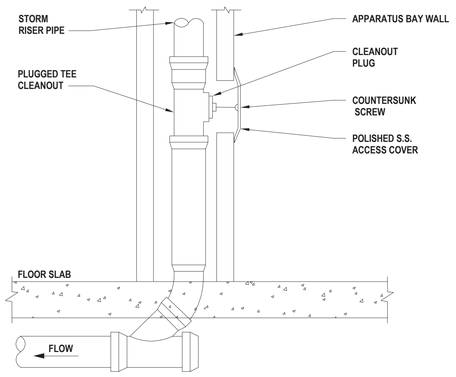
6 Vent Through Roof

SCALE: NTS



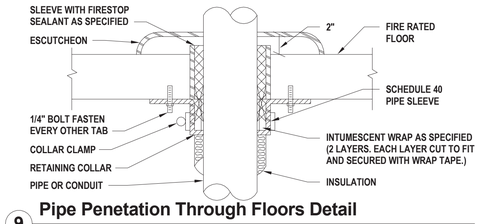
7 Washing Machine Supply And Drain Box

SCALE: NTS



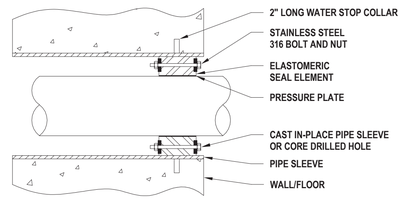
8 Wall Cleanout - Apparatus Bay Detail

SCALE: NTS



9 Pipe Penetation Through Floors Detail

SCALE: NTS



10 Link-Seal Pipe Penetration Detail

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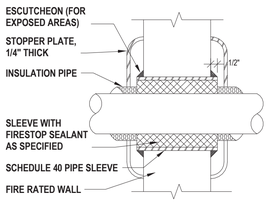

FIRE STOPPING NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT PENETRATIONS ARE PROPERLY FIRE STOPPED WITH THE FOLLOWING:
   - 1.A. THE FIRE STOPPING SYSTEM AND COMPONENTS SHALL BE AS MANUFACTURED BY 3M. NO SUBSTITUTIONS SHALL BE PERMITTED.
   - 1.B. METAL PIPES OR CONDUIT THROUGH BLOCK WALL SHALL USE UL SYSTEM NO. CAJ1044 AND 3M PRODUCT CP25 WB & CAULK
   - 1.C. METAL PIPES THROUGH GYPSUM WALLS SHALL USE UL SYSTEM NO. WL 1001 AND 3M PRODUCT CP 25 WB & CAULK

11 Pipe Penetrations Through Fire Rated Walls

SCALE: NTS

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CONSULTANTS:

MARK	DATE	DESCRIPTION

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JRM	KJE		

PROJECT No:	DATE:	SCALE:
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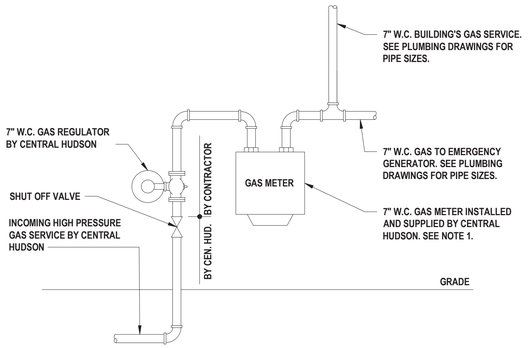
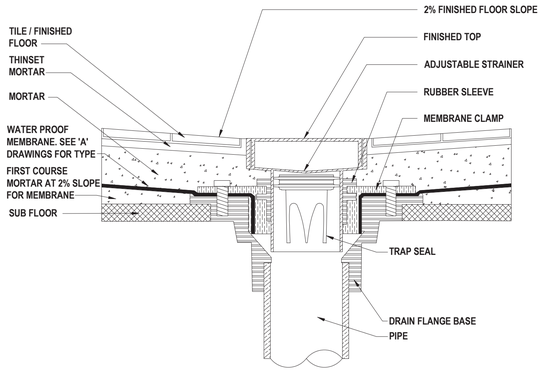


NOTES:

GAS METER RIG SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL REQUIREMENTS OF CENTRAL HUDSON INCLUDING, BUT NOT LIMITING TO; DIMENSIONS, PIPING, FITTINGS, CONNECTIONS, VALVE, CONCRETE PADS, AND BOLLARDS.

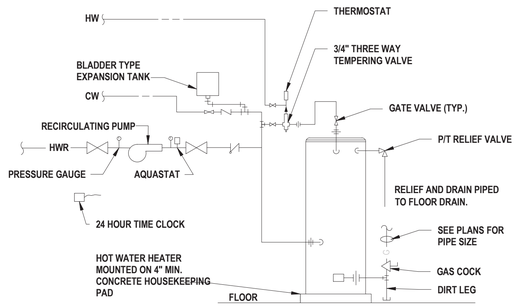
1 Gas Meter With Gas Fired Emergency Generator Detail

SCALE: NTS



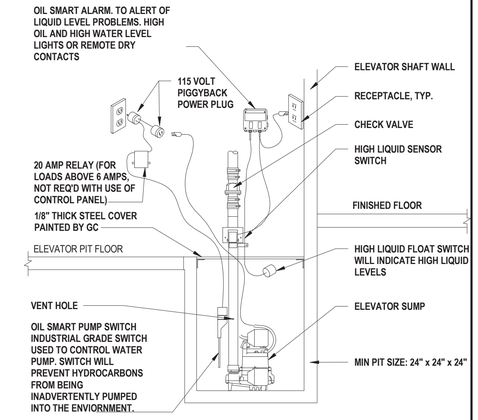
2 Floor Drain Detail

SCALE: NTS



3 Domestic Hot Water Heater Piping With HWR Detail

SCALE: NTS



4 Elevator Oil Smart Pump Detail

SCALE: NTS

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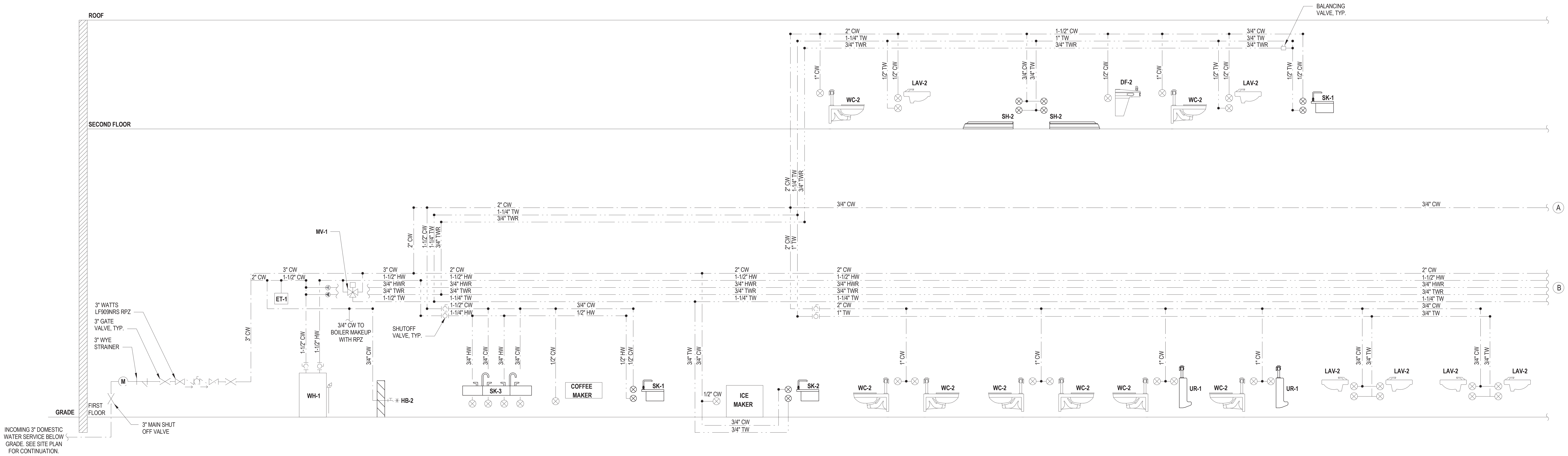
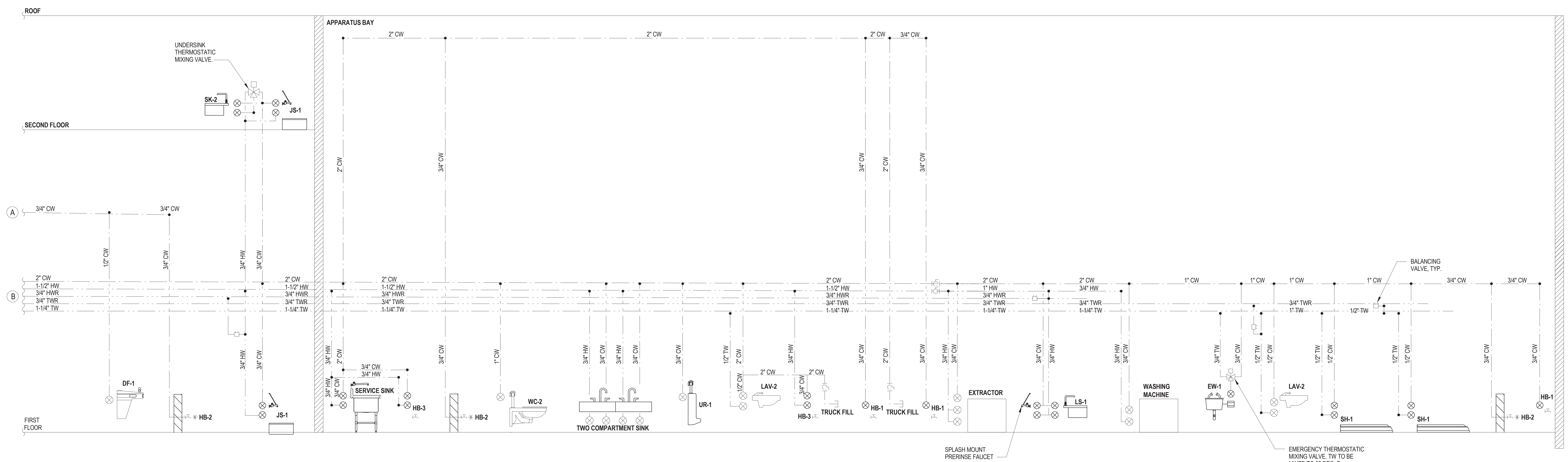


1 Domestic Riser Diagram (1 of 2)

SCALE: NTS



2 Domestic Riser Diagram (2 of 2)

SCALE: NTS

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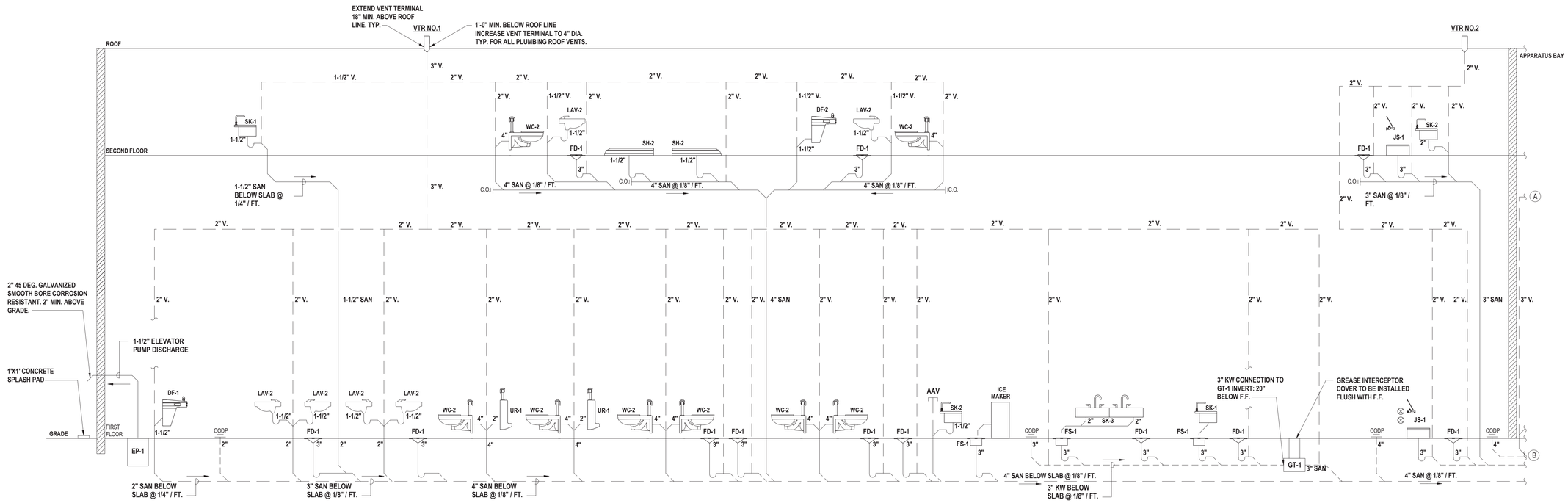
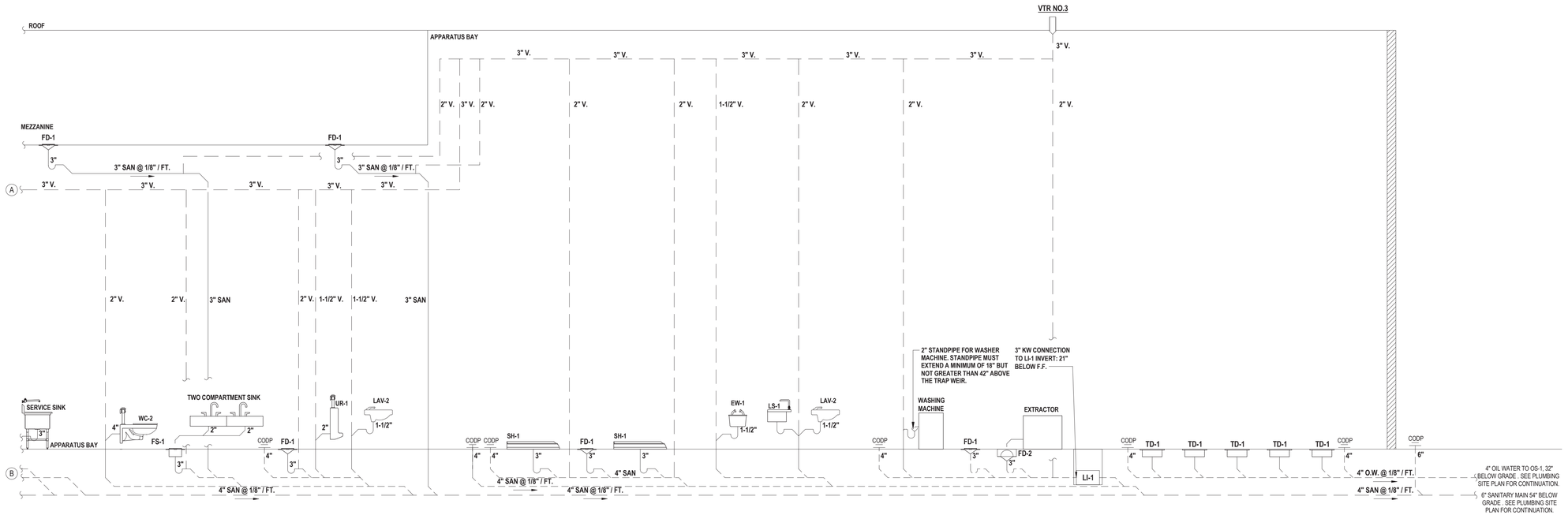
NEW FIRE HOUSE
PHASE 2

DRAWING No.

P2 600.00



1 **Sanitary and Vent Riser Diagram (1 of 2)**
SCALE: NTS



2 **Sanitary and Vent Riser Diagram (2 of 2)**
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PLUMBING SANITARY AND VENT RISER DIAGRAM BUILDING

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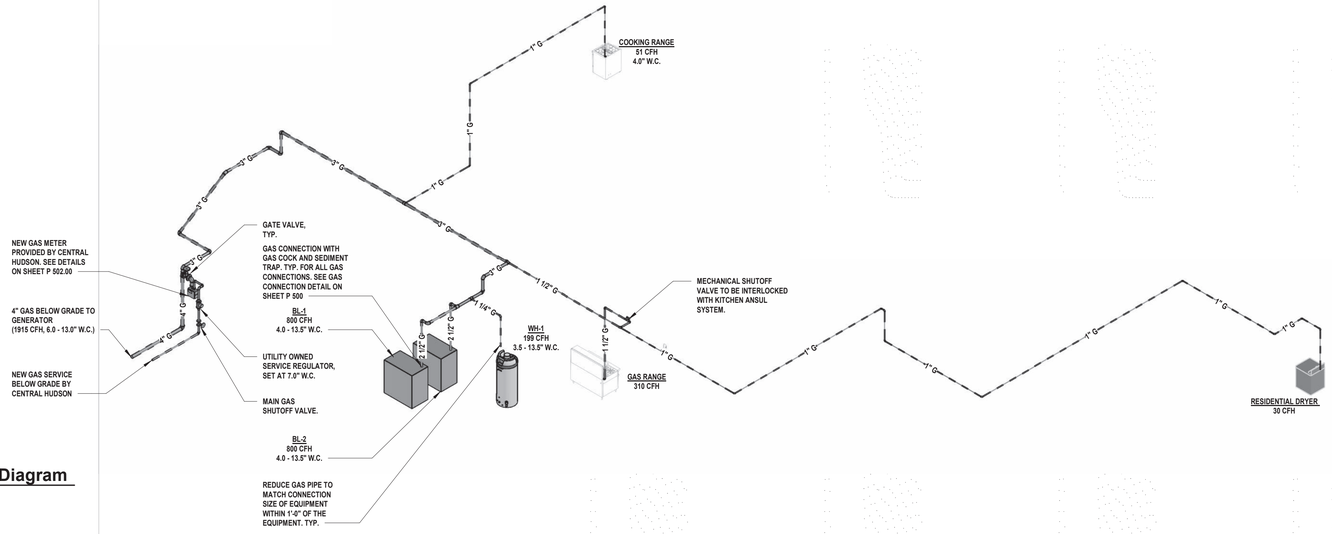
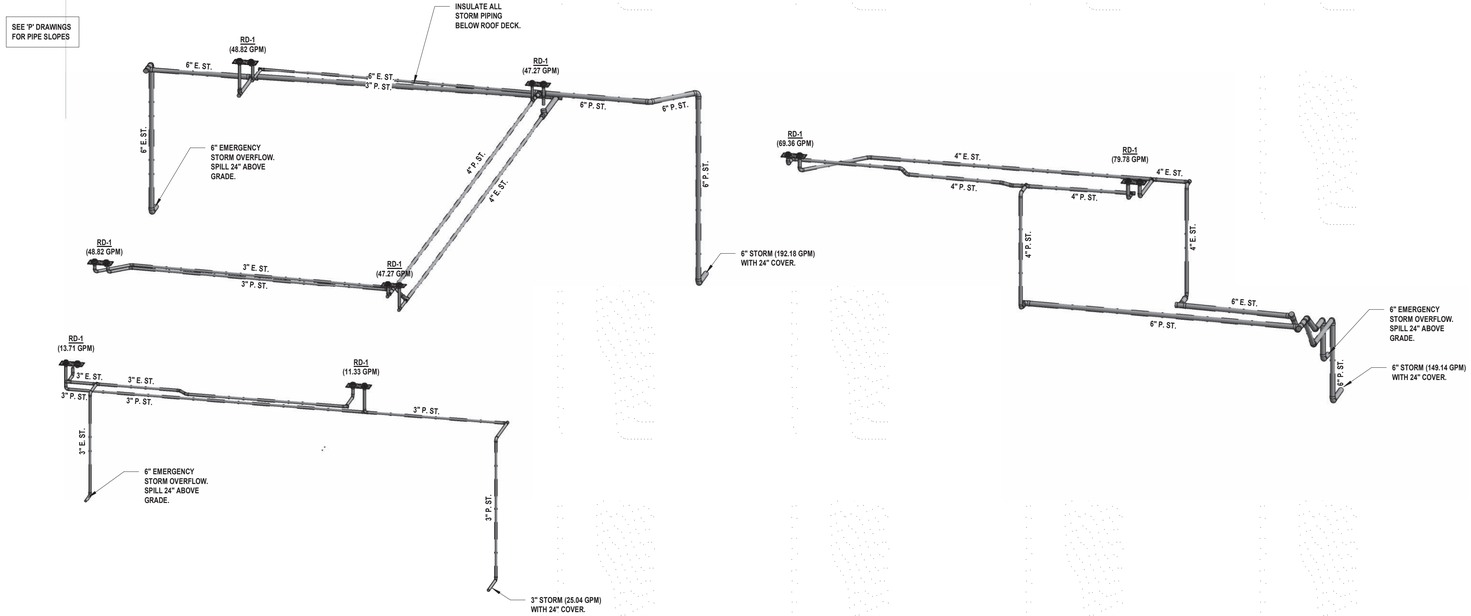


1 Gas Isometric Riser Diagram

SCALE: NTS



2 Storm Isometric Riser Diagram

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