

MECHANICAL ABBREVIATIONS

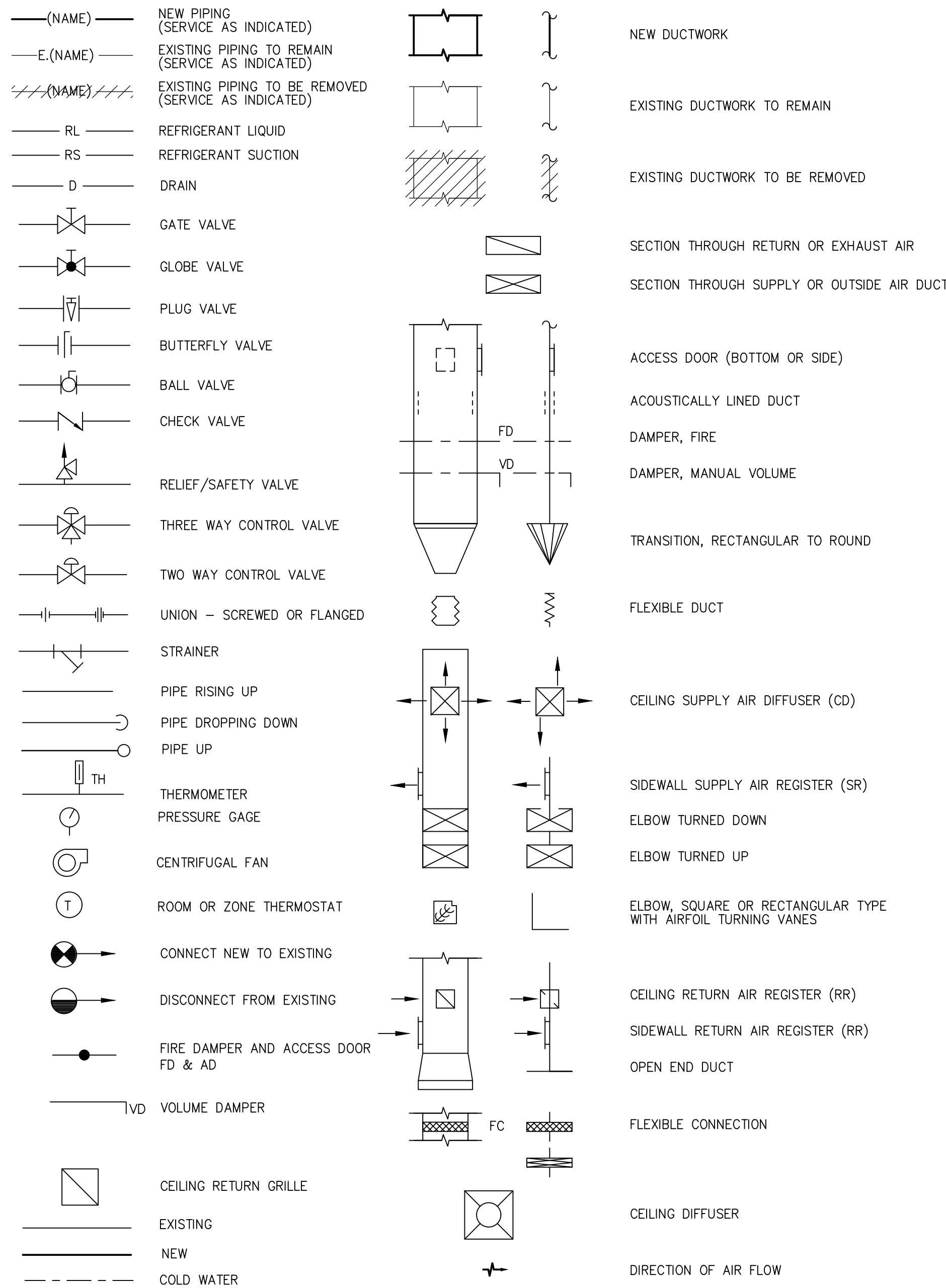
AC	AIR CONDITIONING UNIT	GPM	GALLONS PER MINUTE	RAR	RETURN AIR REGISTER
ACCU	AIR COOLED CONDENSING UNIT	HP	HEAT PUMP	RCP	REFLECTED CEILING PLAN
AD	ACCESS DOOR	HWR	HEATING HOT WATER RETURN	RF	RETURN FAN
AFF	ABOVE FINISHED FLOOR	HWS	HEATING HOT WATER SUPPLY	RG	RETURN GRILLE
AH	AIR HANDLER (SPLIT REFRIG)	HZ	HERTZ	SA	SUPPLY AIR
AHU	AIR HANDLING UNIT	LAT	LEAVING AIR TEMPERATURE	SAR	SUPPLY AIR REGISTER
AL	ACOUSTICAL LINING	LD	LINEAR DIFFUSER	SD	SMOKE DAMPER
BDD	BACK DRAFT DAMPER	MOD	MOTOR OPERATED DAMPER	SF	SUPPLY FAN
CD	CEILING DIFFUSER	MUA	MAKE-UP AIR UNIT	SP	STATIC PRESSURE
CFM	CUBIC FEET PER MINUTE	NC	NORMALLY CLOSED	TG	TRANSFER GRILLE
CUH	CABINET UNIT HEATER	NO	NORMALLY OPEN	TYP	TYPICAL
DB	DRY BULB	NIC	NOT IN CONTRACT	UH	UNIT HEATER
EAT	ENTERING AIR TEMPERATURE	NK	NECK	UON	UNLESS OTHERWISE NOTED
EF	EXHAUST FAN	OA	OUTSIDE AIR	VAV	VARIABLE AIR VOLUME UNIT
ER	EXHAUST REGISTER	OAI	OUTSIDE AIR INTAKE	VD	VOLUME DAMPER
ESP	EXTERNAL STATIC PRESSURE	OAT	OUTSIDE AIR TEMPERATURE	WB	WET BULB
FC	FLEXIBLE CONNECTION	OBD	OPPOSED BLADE DAMPER	WMS	WIRE MESH SCREEN
FCU	FAN COIL UNIT	RA	RETURN AIR		
FD	FIRE DAMPER	RAG	RETURN AIR GRILLE		

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE 2020 NYS BUILDING CODE, NYS MECHANICAL CODE, NYS ENERGY CONSERVATION CODE OF 2020 AND THE LATEST NEW YORK STATE SUPPLEMENTAL CODE.
- DUCTWORK IS SHOWN DIAGRAMMATICALLY. EXACT ROUTING OF NEW DUCTWORK SHALL BE DETERMINED IN FIELD.
- THE WORDS PROVIDE OR INSTALL, SINGLY OR IN COMBINATION, SHALL MEAN FURNISH AND INSTALL.
- THE CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE INSTALLATION OF HIS WORK. NO CUTTING OF STRUCTURAL MEMBERS PERMITTED.
- THE CONTRACTOR SHALL TURN OVER TO THE OWNER AT THE COMPLETION OF ALL WORK, THREE (3) COPIES OF OPERATING, MAINTENANCE AND INSTRUCTION MANUALS WHICH SHALL INCLUDE ALL EQUIPMENT BROCHURES, DUCT AND WIRING DIAGRAMS, DRAWINGS, TEMPERATURE CONTROLS, AND START-UP AND SHUTDOWN PROCEDURES OF ALL NEW EQUIPMENT INSTALLED.
- THE CONTRACTOR SHALL FILE FOR AND SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE INSTALLATION OF HIS WORK.
- THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORK INSTALLED BY HIM TO BE FREE FROM DEFECTS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR, AFTER ACCEPTANCE OF THE INSTALLATION BY THE ENGINEER AND OWNER. THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT STATING SAME TO THE OWNER.
- ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS IN THE TRADE HAVING JURISDICTION.
- ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS INCLUDING CONTROL WIRING DIAGRAMS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK. SHOP DRAWINGS SHALL INDICATE STRUCTURAL MEMBERS, WALLS, FLOORS, DUCTWORK, ETC., WITH ELEVATIONS AT WHICH NEW WORK IS TO BE INSTALLED. ANY DEVIATION IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- THIS CONTRACTOR SHALL HIRE AN INDEPENDENT BALANCING CONTRACTOR WHO IS CERTIFIED BY AABC OR NEBB TO PERFORM AIR BALANCING WORK. THREE (3) COPIES OF BALANCING REPORT SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL.
- ALL WIRING OF MECHANICAL EQUIPMENT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNDER THE SUPERVISION OF THE HVAC CONTRACTOR.
- ALL ELECTRICAL WORK SHALL BE INSTALLED AS REQUIRED BY THE CONNECTICUT BUILDING CODE CHAPTER 27, THE NATIONAL ELECTRIC CODE AND NFPA 70.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MFR'S RECOMMENDATIONS.

MECHANICAL SYMBOLS



HVAC NOTES

- PROVIDE SLEEVES FOR ALL DUCTS AND PIPING PASSING THROUGH PARTITIONS, FLOORS OR MASONRY WALLS. PACK SLEEVE AROUND DUCT WITH THERMOFIBER OR APPROVED FIRE RATED MATERIAL. SLEEVES SHALL BE 18 GAGE GALVANIZED SHEET STEEL. SEAL ALL SLEEVES WETHERTIGHT THROUGH EXTERIOR WALLS.
- SUSPEND AND SUPPORT ALL NEW DUCTWORK AND EQUIPMENT FROM BUILDING STRUCTURE ONLY.
- DUCTWORK SHALL BE FABRICATED AND INSTALLED ACCORDING TO LOCAL CODE & SMACNA LOW PRESSURE FLEXIBLE AND METAL DUCT STANDARDS LATEST EDITION. PROVIDE BUTTERFLY TYPE VOLUME DAMPERS WITH LOCKING QUADRANT AS INDICATED ON THE PLANS. DUCT SHALL BE GALV. SHEET METAL.
- PROVIDE ALL SUPPORT STEEL AS REQUIRED FOR DUCTWORK.
- THIS CONTRACTOR SHALL HIRE AN INDEPENDENT BALANCING CONTRACTOR WHO IS CERTIFIED BY AABC OR NEBB TO PERFORM AIR BALANCING WORK. THREE (3) COPIES OF BALANCING REPORT TO BE SUBMITTED TO THE ARCHITECT/ENGINEER AND OWNER FOR APPROVAL.
- ALL WIRING OF MECHANICAL EQUIPMENT, ETC. SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNDER THE SUPERVISION OF THE HVAC CONTRACTOR.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MFR'S RECOMMENDATIONS.
- ALL CONTROL WIRING & CONTROLS RELATED WORK SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- OUTDOOR COMBUSTION AIR SHALL BE AS DIRECTED BY 2020 NYS FUEL GAS CODE SECTION 304.6.
- LOCATION OF EXHAUST OUTLETS AND DUCT DISCHARGING TO THE OUTDOORS SHALL BE AS DIRECTED BY 2020 NYS MECHANICAL CODE SECTION 501.2.1.
- PROVIDE INSULATION ON ALL FRESH AIR IN-TAKE DUCT.
- VENTING SYSTEM TERMINATION LOCATION SHALL BE AS DIRECTED BY 2020 NEW YORK STATE FUEL GAS CODE SECTION 503.8.

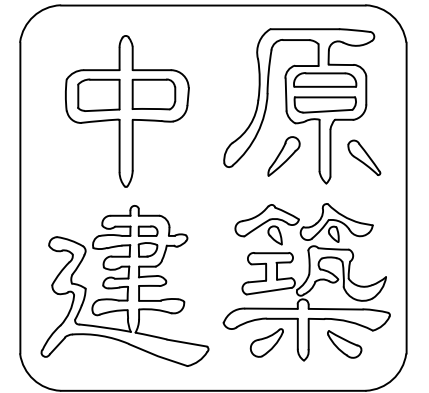
SCOPE OF WORK:

- REPLACE EXISTING BOILER AND ASSOCIATED PIPING AND CONTROLS
- INSTALLATION OF NEW GAS-FIRE FURNACE WITH COOLING COIL.
- INSTALLATION OF NEW STEAM RADIATORS IN CREATION ROOM AND MEETING ROOM.

NYS MC 2020 TABLE 403.3.1.1 MINIMUM VENTILATION REQUIRED

OCCUPANCY CLASSIFICATION	OCCUPANT DENSITY (#/1000 SQ FT)	PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE Rp CFM / PERSON	AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE Rz CFM / SQ FT	EXHAUST AIRFLOW RATE CFM / SQ FT
DORMITORY	20	5.0	0.06	-
RECREATION ROOM	30	7.5	0.06	-
MEETING ROOM	50	5.0	0.06	-

- OCCUPANT DENSITY IS 10 PEOPLE FOR DORMITORY OF 500 SQ. FT.
 BREATHING ZONE OUTDOOR AIRFLOW IS (10 PERSONS X 5.0 CFM/PERSON) + (500 SQ. FT. X 0.06 SQ. FT.) = 80 CFM
 - REQUIRED OUTDOOR AIRFLOW IS 80 CFM / 0.8 (AIR DISTRIBUTION EFFECTIVENESS BASE ON CEILING SUPPLY OF WARM AIR AND CEILING RETURN) = 100 CFM

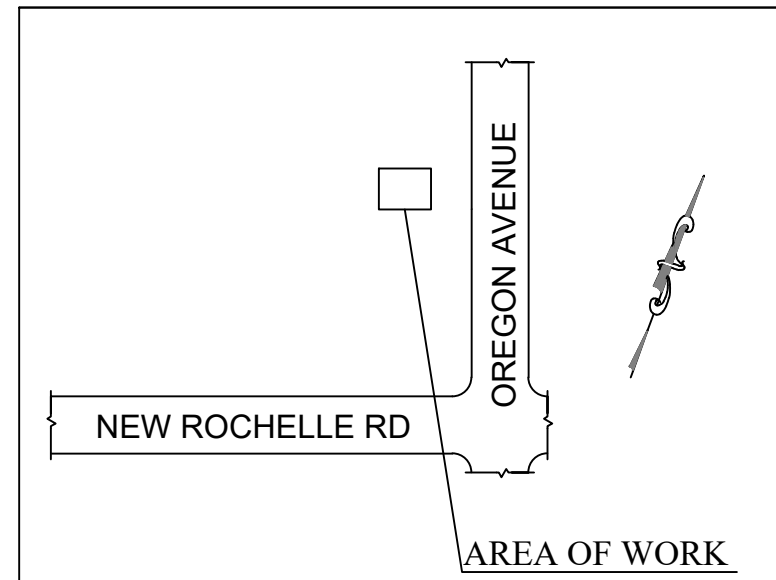


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NO.	ISSUED FOR	DATE
5		
4		
3		
2	REVISED	9/10/2021
1	CLIENT REVIEW	3/11/2021

REVISIONS



SCOPE OF WORK:

**FIRE HOUSE
(MECHANICAL)**

PROJECT LOCATION:

**10 OREGON AVENUE
BRONXVILLE, NY
10708**

SHEET TITLE:

**MECHANICAL
ABBREVIATIONS, NOTES
AND SYMBOLS**

PROJECT #: 21-0311-00

SCALE: AS NOTED

DATE: 10/20/2020

DRAWN BY: AM

REVIEWED BY: DL/MW

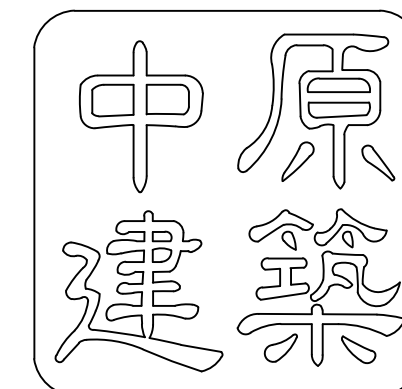


SHEET NO.:
M-100.00

SHEET: 1 OF 7

DOB STAMP & SIGNATURE

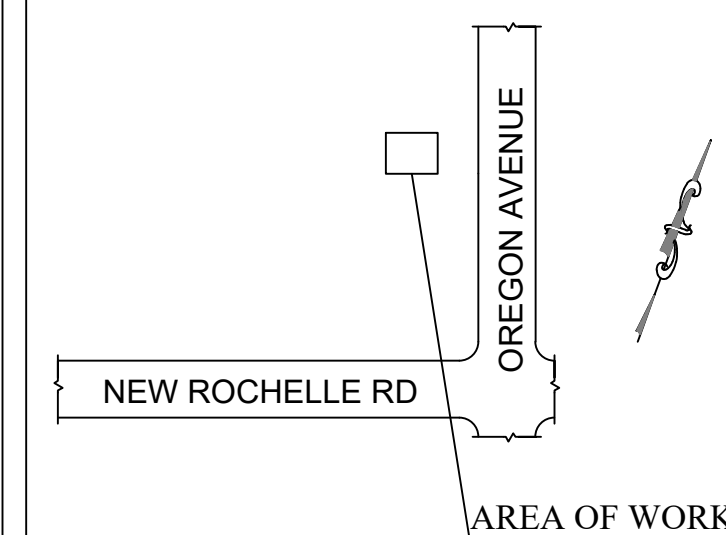
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SCOPE OF WORK:

**FIRE HOUSE
(MECHANICAL)**

PROJECT LOCATION:

10 OREGON AVENUE
 BRONXVILLE, NY
 10708

SHEET TITLE:

**CELLAR AND 1ST
FLOOR -HVAC
INSTALLATION PLANS**

PROJECT #: 21-0311-00

SCALE: AS NOTED

DATE: 10/20/2020

DRAWN BY: AM

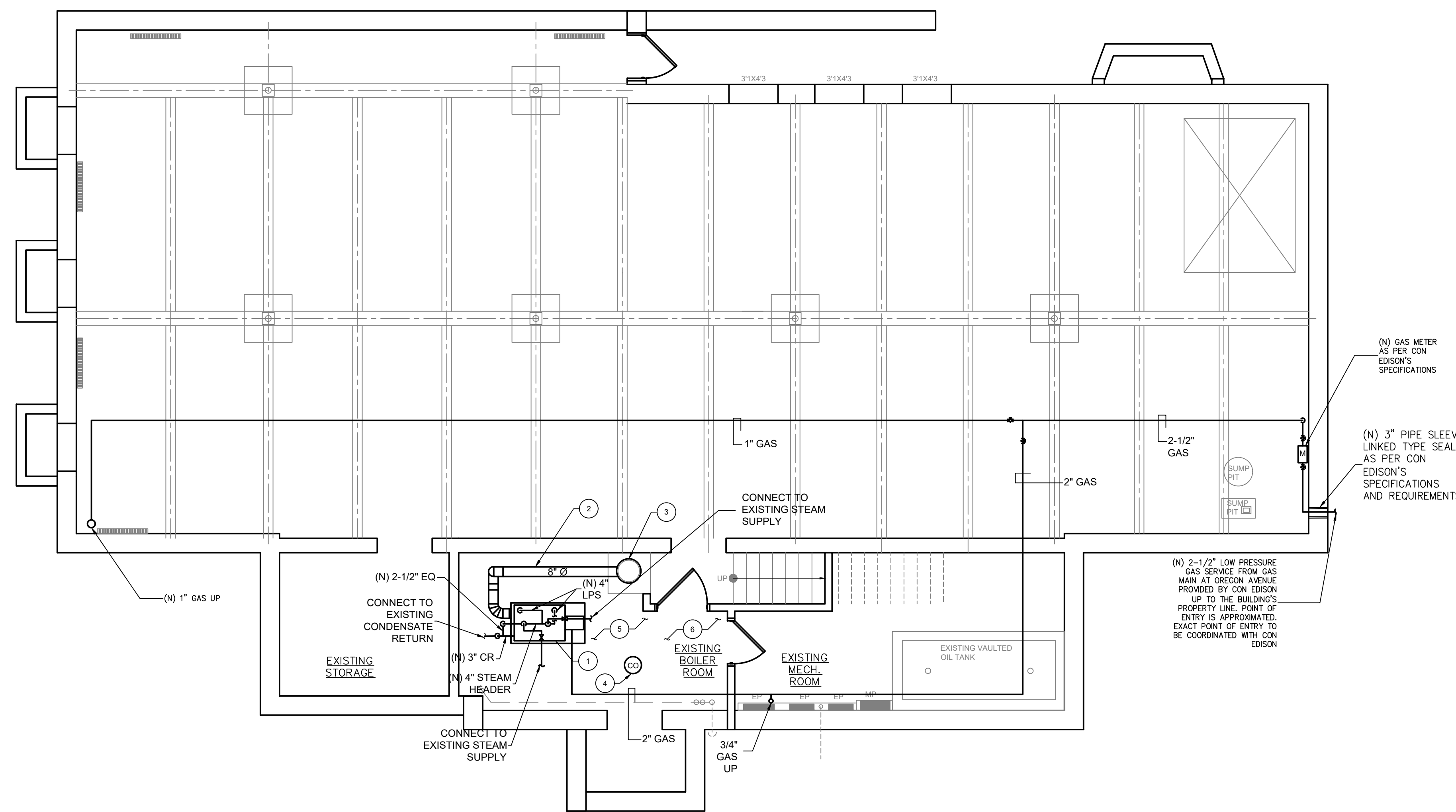
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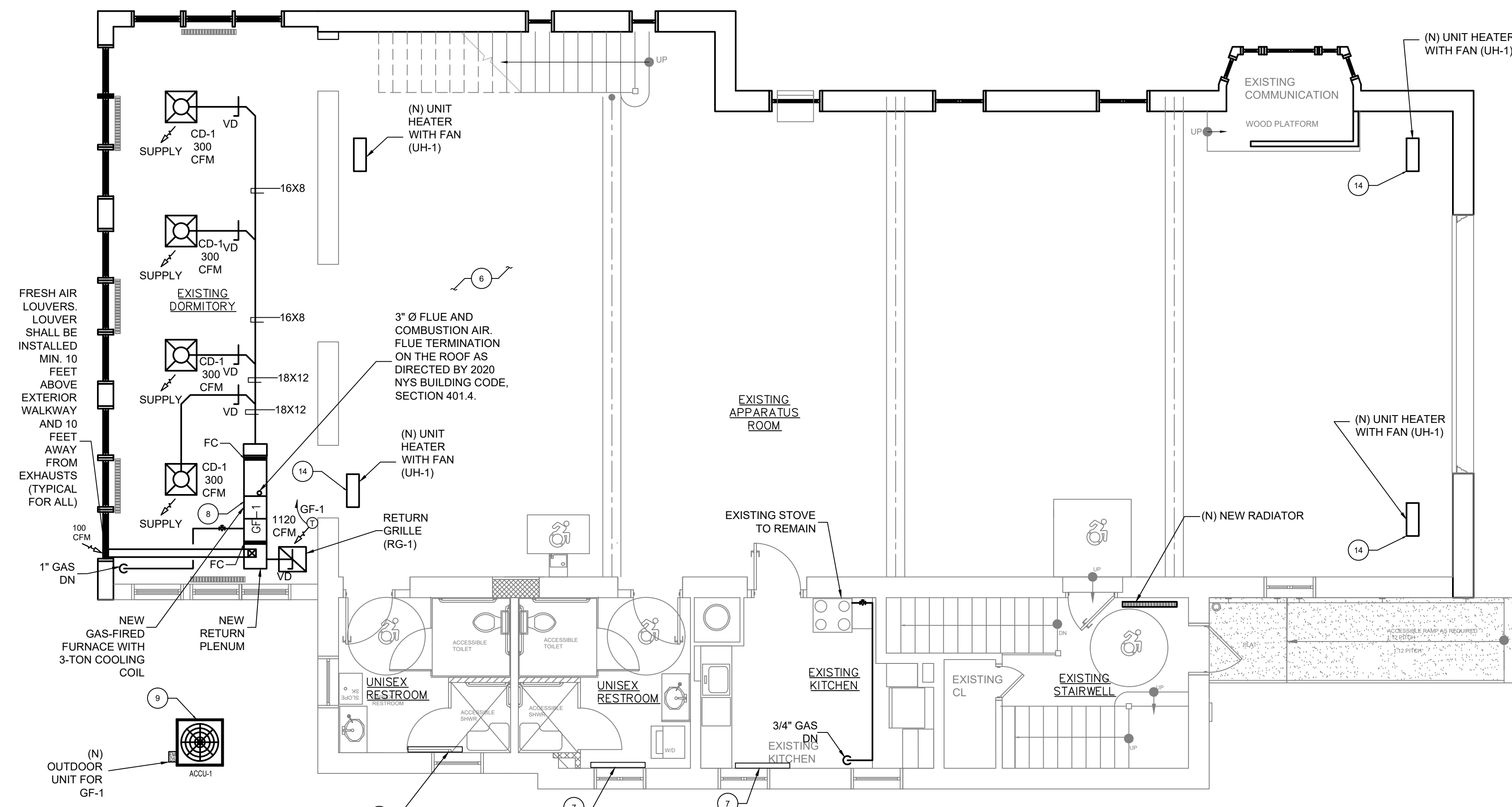
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DOB JOB #



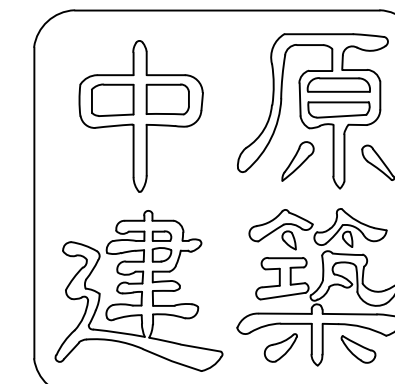
HVAC INSTALLATION CELLAR FLOOR PLAN
 SCALE: 3/16" = 1'-0"



HVAC INSTALLATION FIRST FLOOR PLAN
 SCALE: 3/16" = 1'-0"

DOB STAMP & SIGNATURE

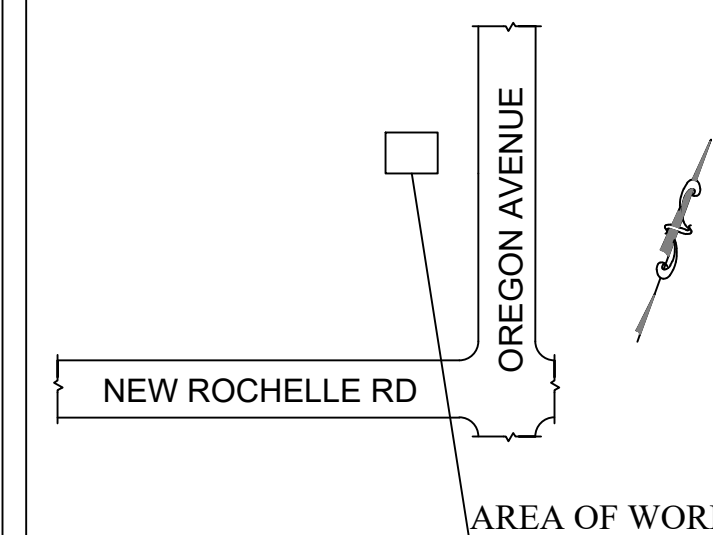




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SCOPE OF WORK:

**FIRE HOUSE
(MECHANICAL)**

PROJECT LOCATION:

**10 OREGON AVENUE
BRONXVILLE, NY
10708**

SHEET TITLE:

**2ND LOWER
FLOOR-HVAC
INSTALLATION PLAN**

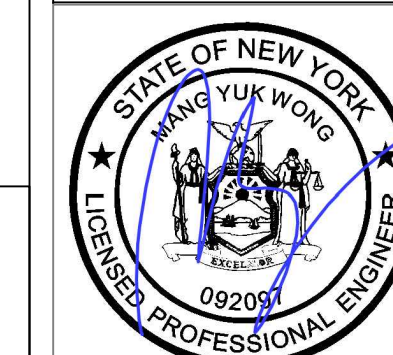
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SCALE: AS NOTED

DATE: 10/20/2020

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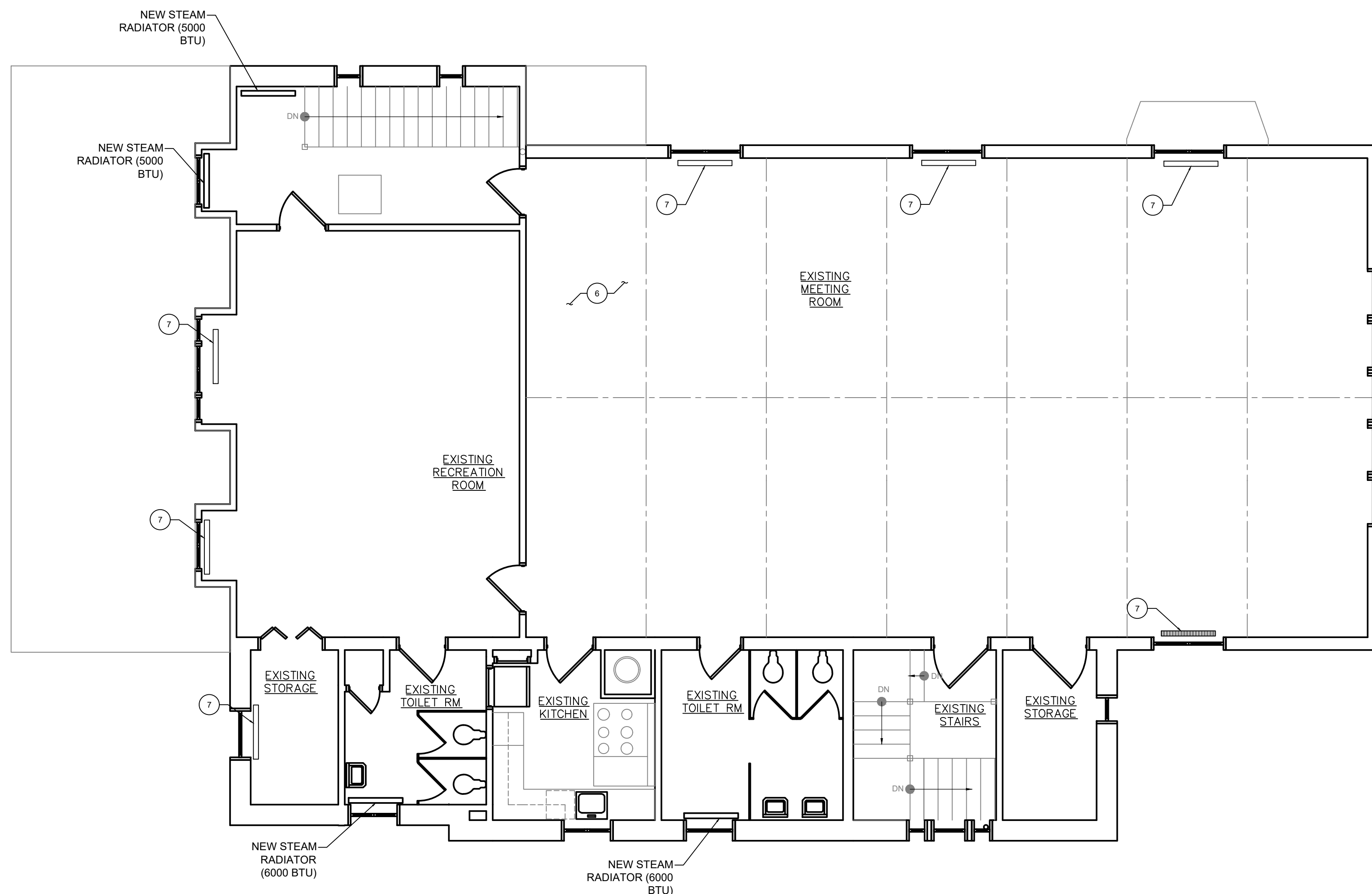
SHEET NO.:

M-102.00

SHEET: 3 OF 7

DOB JOB #

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HVAC INSTALLATION SECOND FLOOR PLAN
 SCALE: 3/16" = 1'-0"

ITEMS OF WORK: INSTALLATION

- 1 FURNISH AND INSTALL NEW LOW PRESSURE STEAM BOILER AND ASSOCIATED DUEL FUEL BURNER (GAS AND NO. 2 FUEL OIL), VALVES, PIPING, FITTINGS, LOW WATER CUTOFFS, CONTROLS, AND BOILER BREACHING FOR A COMPLETE FUNCTIONING SYSTEM. INSTALL NEW 4" HOUSE KEEPING PAD.
- 2 FURNISH AND INSTALL NEW 8" Ø BREACHING INCLUDING NEW INSULATION AND BAROMETRIC DAMPER FOR BOILER AS SHOWN ON PLAN. SEE SPECIFICATION. MODIFY AS REQUIRED. BREACHING SHALL BE 14 GAUGE AND WELDED WITH GAS TIGHT SEAMS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S APPROVAL. PROVIDE CLEANOUTS AS REQUIRED.
- 3 FURNISH AND INSTALL NEW 12" SINGLE WALL STAINLESS STEEL FLUE. INSTALL ALL REQUIRED EXPANSION JOINTS AND SUPPORT PER THE MANUFACTURER RECOMMENDATIONS. PROVIDE 3" DRAIN CONNECTION AT THE BOTTOM OF THE CHIMNEY AND PIPE TO THE NEAREST FLOOR DRAIN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S APPROVAL.
- 4 FURNISH AND INSTALL A NEW CARBON MONOXIDE ALARM W/LOCAL ANNUNCIATION, SENSORS AND WIRING IN THE BOILER ROOM. INTERLOCK NEW SENSORS WITH NEW BURNERS.
- 5 INSULATE ALL NEW HW, CW, HW/R, STEAM AND CONDENSATE PIPING IN THE BOILER ROOM AS PER THE LATEST NEW YORK STATE ENERGY CONSERVATION CODE. RE-INSULATE ALL EXISTING PIPING THAT ARE DAMAGED OR DISTURBED. SEE SPECIFICATIONS.
- 6 REPLACE ALL STEAM TRAP IN THE BOILER ROOM AND THROUGHOUT THE BUILDING.
- 7 EXISTING STEAM RADIATOR TO REMAIN. REPLACE ALL STEAM TRAP AND DANFOSS VALVE. TYPICAL FOR ALL EXISTING RADIATOR THROUGHOUT.
- 8 FURNISH AND INSTALL NEW GAS-FIRE FURNACE WITH COOLING COIL (GF-1) FOR A COMPLETE FUNCTIONING SYSTEM. PROVIDE PROPER SUPPORTS AND VIBRATION ISOLATORS AS REQUIRED. SEE SCHEDULE AND SPECIFICATIONS FOR DETAILS. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT.
- 9 FURNISH AND INSTALL NEW CONDENSING UNIT AND CONNECT TO THE COOLING COIL ASSOCIATED WITH NEW GAS-FIRE FURNACE. INSTALL UNIT ON 4" CONCRETE PAD WITH NEOPRENE PAD. SEE SCHEDULE FOR DETAIL.
- 10 NOT USED
- 11 NOT USED
- 12 NOT USED
- 13 NOT USED
- 14 REMOVE EXISTING UNIT HEATER AND REPLACE WITH NEW. FURNISH AND INSTALL NEW UNIT HEATER AS MANUFACTURED BY MODINE OR APPROVED EQUAL. CONNECT TO EXISTING STEAM CONDENSATE PIPING. PROVIDE NEW STEAM TRAP (TYPICAL FOR ALL). PROVIDE PROPER SUPPORTS AS REQUIRED. SEE SCHEDULE FOR DETAIL.

BOILER SCHEDULE		
UNIT NO.	B-1	
SERVICE	HEATING	
LOCATION	BOILER ROOM	
TYPE	CAST IRON FIREBOX	
RATINGS	HORSEPOWER	18.9
	STEAM NET RATING (MBH)	476
	GROSS OUTPUT (MBH)	634
	HEATING SURFACE (SQ. FT)	1983
	FURNACE VOLUME (CU. FT)	6.69
	WATER CONTENT (GALLONS)	72
	DESIGN PRESSURE (PSIG)	15
BURNER	OIL FIRING RATE (GPH)	5.5
	GRADE OF OIL	2
	INTEGRAL OIL/AIR SYSTEM MOTOR HP	-
	BURNER MOTOR RPM	3450
STEAM	NOZZLE LINE HEATER (KW)	-
	MBH	476
E/C	OPER. PRES. (PSIG)	5
	V / Ø / HZ	120/1/60
REMARKS:		
1. SELECTION BASED ON WEIL MCLAIN STEAM BOILER, MODEL 680 AND BURNER, WEBSTER, MODEL WJB1C-03 (DUAL FUEL)		
2. PROVIDE LOW GAS PRESSURE SWITCH & GAS PRESSURE REGULATOR.		
3. BURNER SHALL BE WITH "LOWER GAS SUPPLY PRESSURE CONFIGURATIONS". TYPICAL FOR ALL NEW BURNERS.		

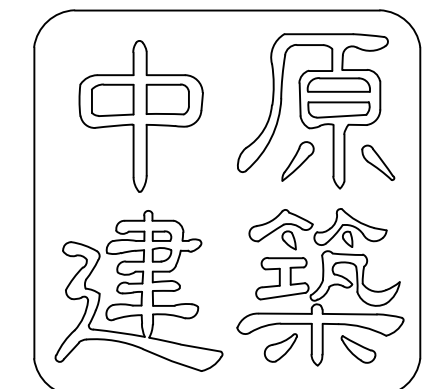
AIR DISTRIBUTION SCHEDULE									
TAG	MAKE	MODEL	SIZE	CFM	NECK SIZE	MAX N.C.	DAMPER	FINISH	(TAG) REMARKS
SG-1	TITUS	300	14"X6"	225	-	-	-	ALUMINUM OFF-WHITE	(SG) SUPPLY AIR GRILLE PROVIDE FRAME STYLE AS REQUIRED
CD-1	TITUS	TMS	24"X24"	300	10" DIA	14	-	ALUMINUM OFF-WHITE	(CD) CEILING SUPPLY AIR DIFFUSER PROVIDE FRAME STYLE AS REQUIRED
RG-1	TITUS	350F	24"X20"	1120	-	-	-	ALUMINUM OFF-WHITE	(RG) RETURN AIR GRILLE PROVIDE FRAME STYLE AS REQUIRED
RG-2	TITUS	350F	18"X10"	280	-	-	-	ALUMINUM OFF-WHITE	(RG) RETURN AIR GRILLE PROVIDE FRAME STYLE AS REQUIRED
RG-3	TITUS	350F	20"X20"	940	-	-	-	ALUMINUM OFF-WHITE	(RG) RETURN AIR GRILLE PROVIDE FRAME STYLE AS REQUIRED
RG-4	TITUS	350F	36"X32"	SEE PLAN	-	-	-	ALUMINUM OFF-WHITE	(RG) RETURN AIR GRILLE PROVIDE FRAME STYLE AS REQUIRED

AIR COOLED CONDENSING UNIT SCHEDULE									
TAG	MANUFACTURER & MODEL NO.	COOLING REQUIREMENTS			ELECTRICAL			UNIT WEIGHT (LBS)	NOTES
		BTUH TOTAL (NOMINAL)	OAT DB F	OAT WB F	V-PH-HZ	MCA	MOCP		
ACCU-1	CARRIER 24ACC648	48,000	95.0	74.0	208-1-60	26.1	40	248	ASSOCIATED WITH INDOOR COOLING COIL WITH FURNACE (GF-1)
* SIZE REFRIGERANT PIPING PER THE MANUFACTURER'S RECOMMENDATIONS. * PROVIDE DISCONNECT SWITCH AND GFI RECEPTACLE * INSTALL UNIT ON NEW PAD									

GAS FIRED FURNACE WITH COOLING COIL SCHEDULE													
EQUIPMENT NO.	SUPPLY AIR (CFM)	STATIC PRESS. (IN. W.G.)	INPUT (BTU)	OUTPUT (BTU)	EFFICIENCY A.F.U.E.	GAS RATE (CFH)	OUTSIDE AIR (CFM)	ELECTRIC		WEIGHT (LBS)	MANUFACTURER & MODEL	SEER/EER	REMARKS
								AMPS	V-HZ-PH				
GF-1	1200	0.5	60,000	58,000	96.2%	60	-	9.7	115-60-1	150	CARRIER, MODEL 59TN6A060E	15.2/12.5	- PROVIDE UNIT WITH MATCHING COOLING COIL -CARRIER MODEL CNPHP36 - ASSOCIATED WITH ACCU-1
NOTES: 1) PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT FOR EACH FURNACE. 2) PROVIDE DRIP PAN UNDERNEATH EACH UNIT. DRAIN CONDENSATE TO THE NEAREST FLOOR DRAIN OR SERVICE SINK WITH MIN. 1" AIR GAP. 3) PROVIDE VIBRATION ISOLATORS FOR EACH HORIZONTAL UNIT. 4) PROVIDE DIRECT VENT ASSEMBLY FOR EACH UNIT AND TERMINATE AS PER MANUFACTURER'S RECOMMENDATIONS AND NYS MECHANICAL CODE, 2020. 5) PROVIDE FLEXIBLE CONNECTION AT EACH SUPPLY AND RETURN DUCT CONNECTION TO THE UNIT 6) CONNECT 1/2" GAS PIPING TO EXISTING GAS MAIN.													

UNIT HEATER SCHEDULE	
UNIT No.	UH-1
MANUFACTURER	MODINE
MODEL No.	HSB 121
SERVICE	APPARATUS
LOCATION	WALL
CAPACITY (BTU)	121,000
STATIC PRESSURE (IN. W.C.)	-
ENCLOSURE	-
MOT OR DAT	HP -
A	RPM -
	V / Ø / Hz -
REMARKS:	
1. PROVIDE NEW STEAM TRAP.	
2. PROVIDE PROPER SUPPORTS AS REQUIRED.	

SPILL AIR FAN SCHEDULE										
UNIT NO.	AREA SERVED	LOCATION OF UNIT	FAN DATA					MOTOR DATA		REMARKS
			CAPACITY C.F.M	STATIC PRESSURE IN.	R.P.M.	TYPE OF DRIVE	BHP	VOLTAGE	PHASE	
SAF-1	MEETING ROOM	RECREATION CEILING	3000	0.75	637	BELT	0.82	208	1	BASED ON GREENHECK MODEL BDF-150
NOTES: 1) PROVIDE FLEXIBLE CONNECTION AT OUTLET OF EXHAUST FAN. 2) PROVIDE CONTROLS, SENSORS AND MOTORIZED DAMPERS AS REQUIRED FOR A COMPLETE FUNCTIONING SYSTEM. 3) INSTALL SPILL AIR FAN AS PER MANUFACTURER'S RECOMMENDATIONS. 4) PROVIDE PROPER SUPPORTS AS PER MANUFACTURER'S RECOMMENDATIONS.										

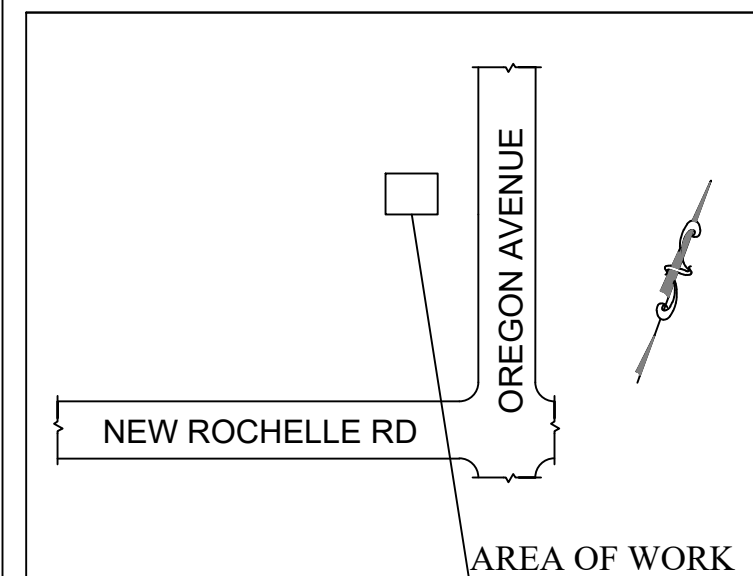


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2	REVISED	9/10/2021
1	CLIENT REVIEW	3/11/2021
NO. ISSUED FOR		DATE

REVISIONS



SCOPE OF WORK:

FIRE HOUSE (MECHANICAL)

PROJECT LOCATION:

10 OREGON AVENUE
BRONXVILLE, NY
10708

SHEET TITLE:

MECHANICAL SCHEDULES

PROJECT #: 21-0311-00

SCALE: AS NOTED

DATE: 10/20/2020

DRAWN BY: AM

REVIEWED BY: DL/MW

SHEET NO.:

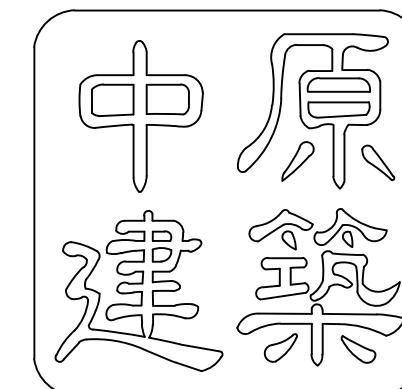
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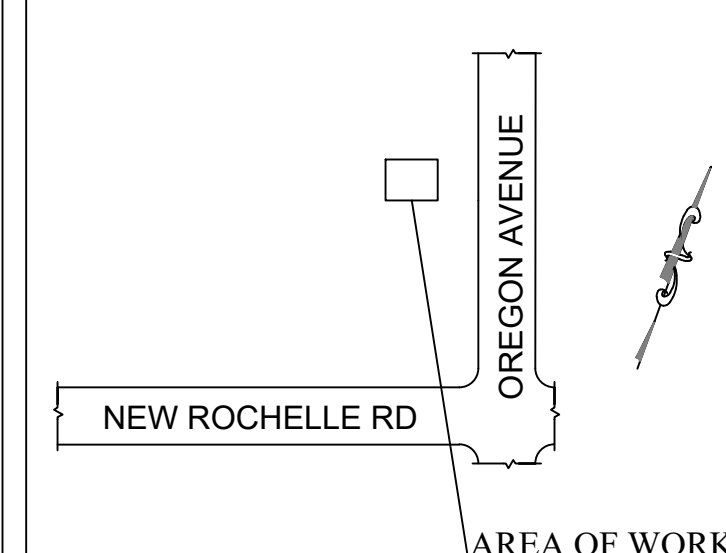


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SCOPE OF WORK:

**FIRE HOUSE
(MECHANICAL)**

PROJECT LOCATION:

**10 OREGON AVENUE
BRONXVILLE, NY
10708**

SHEET TITLE:

**MECHANICAL
DETAILS**

PROJECT #: 21-0311-00

SCALE: AS NOTED

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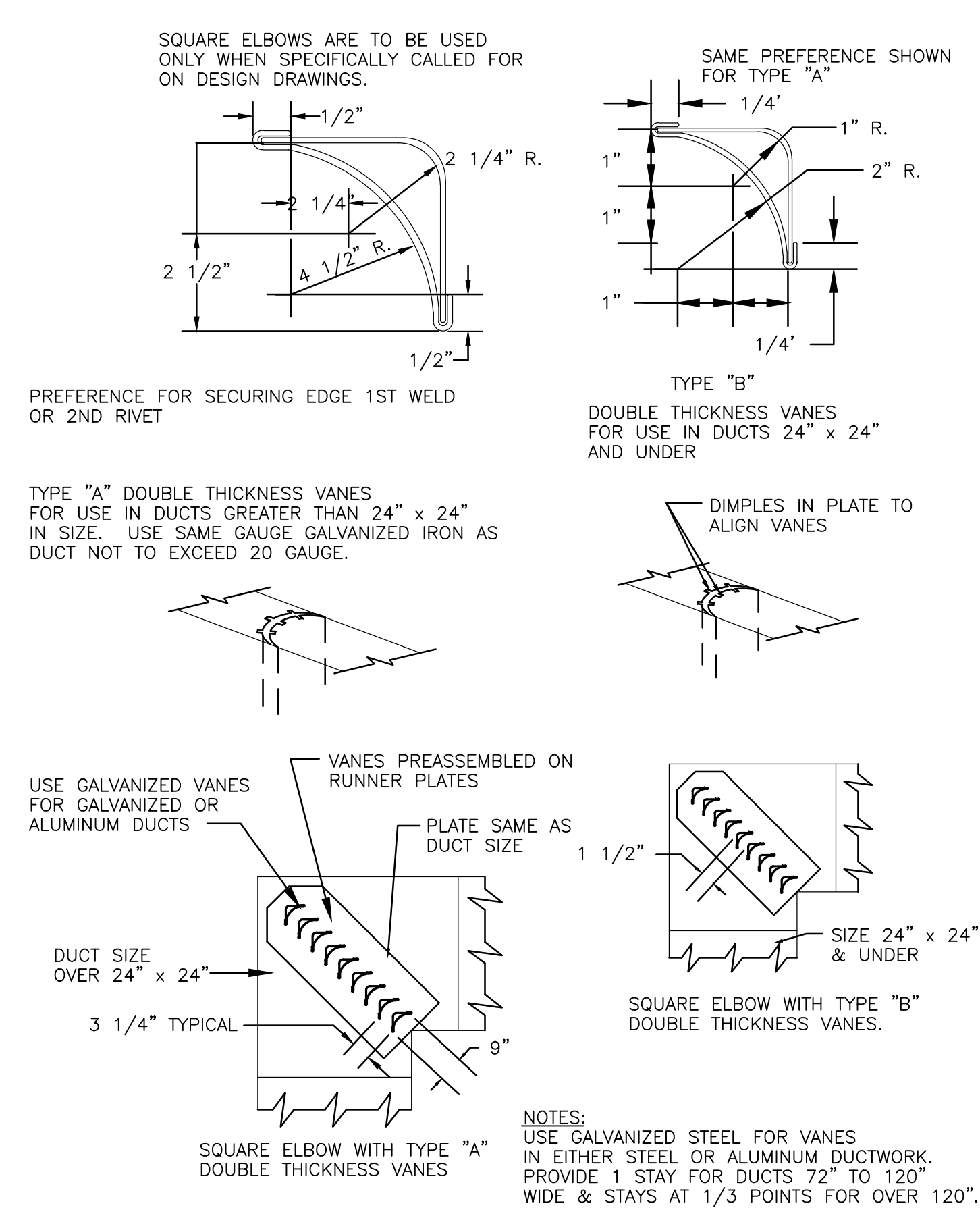
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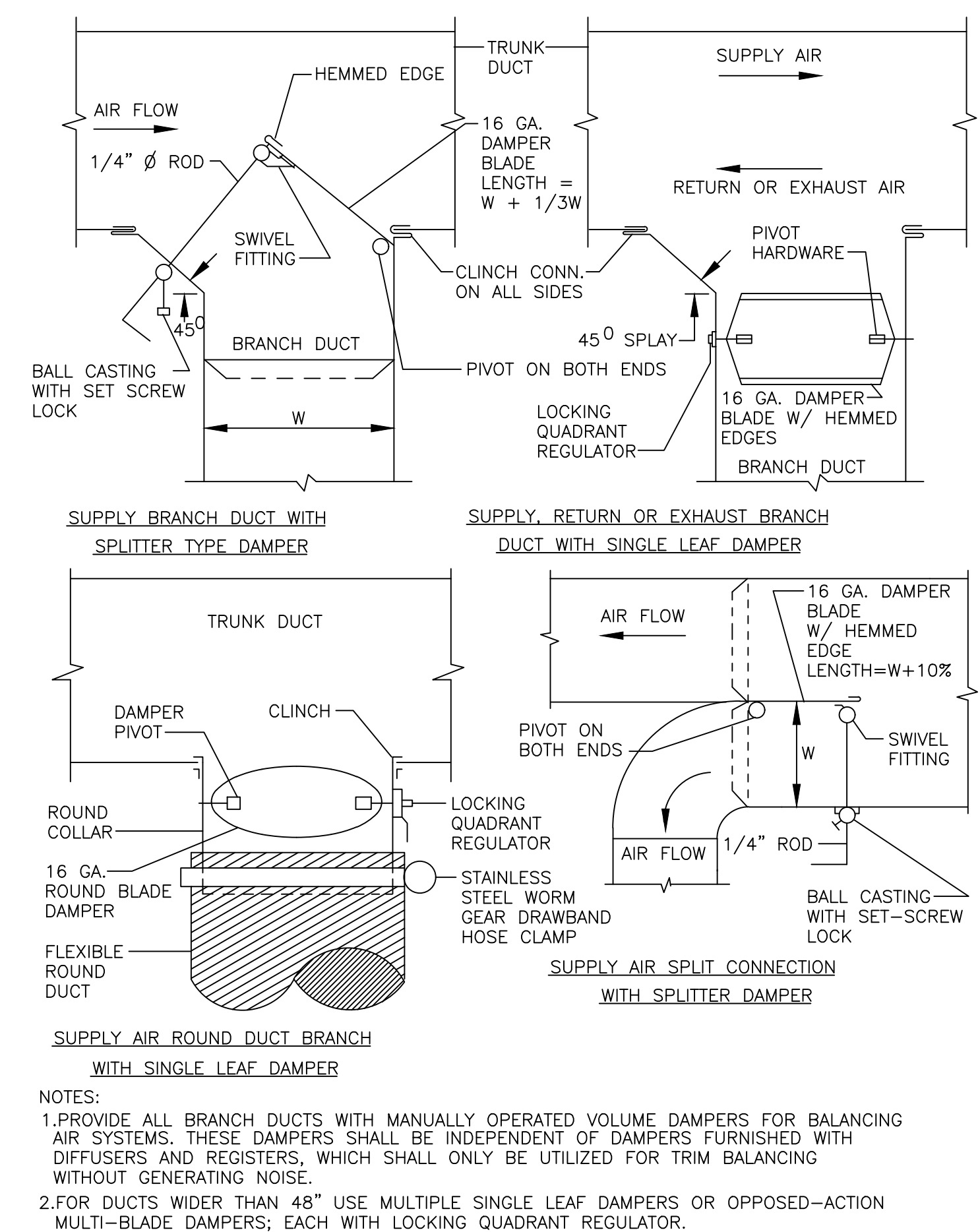
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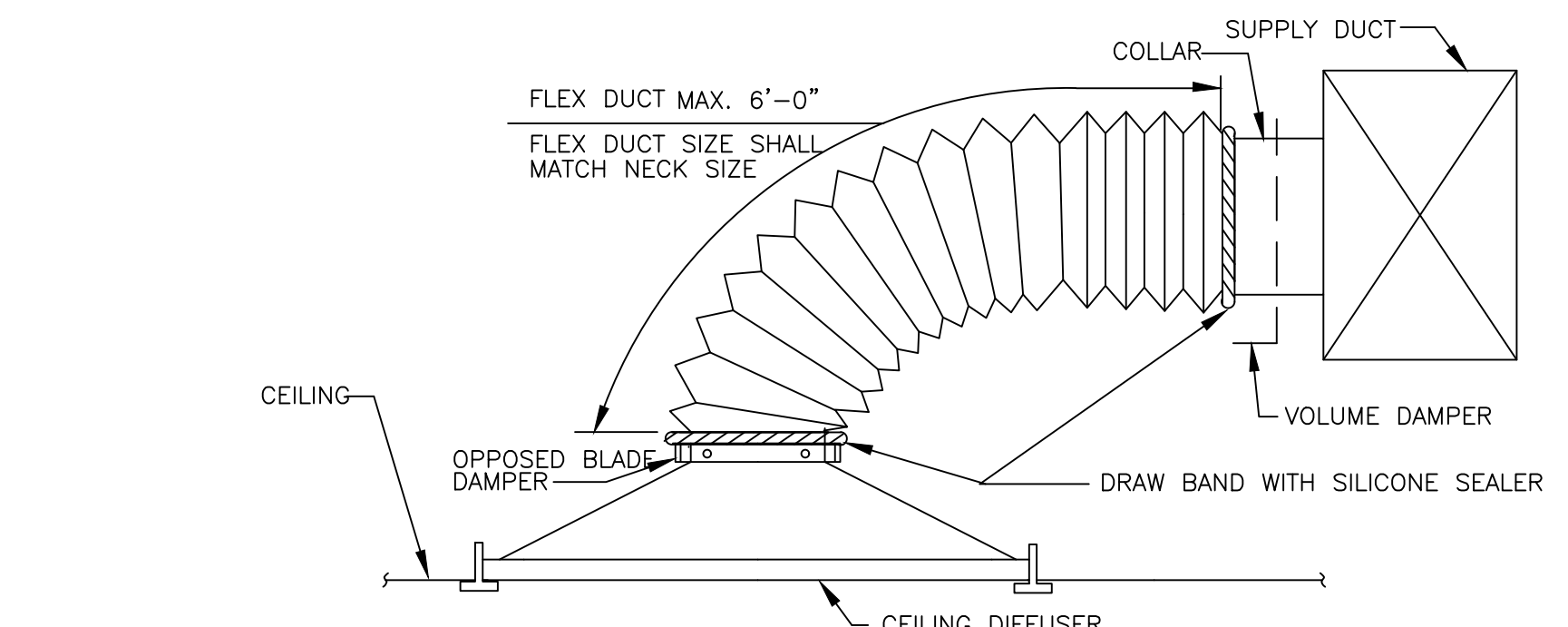


TURNING VANE DETAIL
NOT TO SCALE

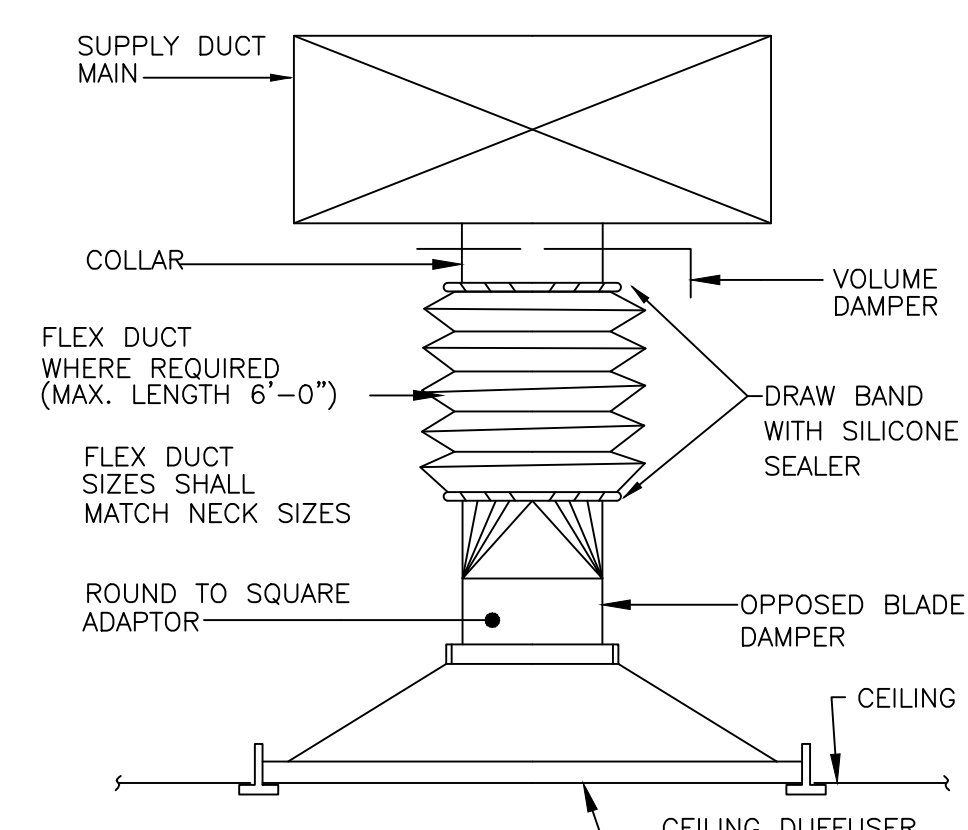


BRANCH DUCT VOLUME DAMPERS DETAIL
NOT TO SCALE

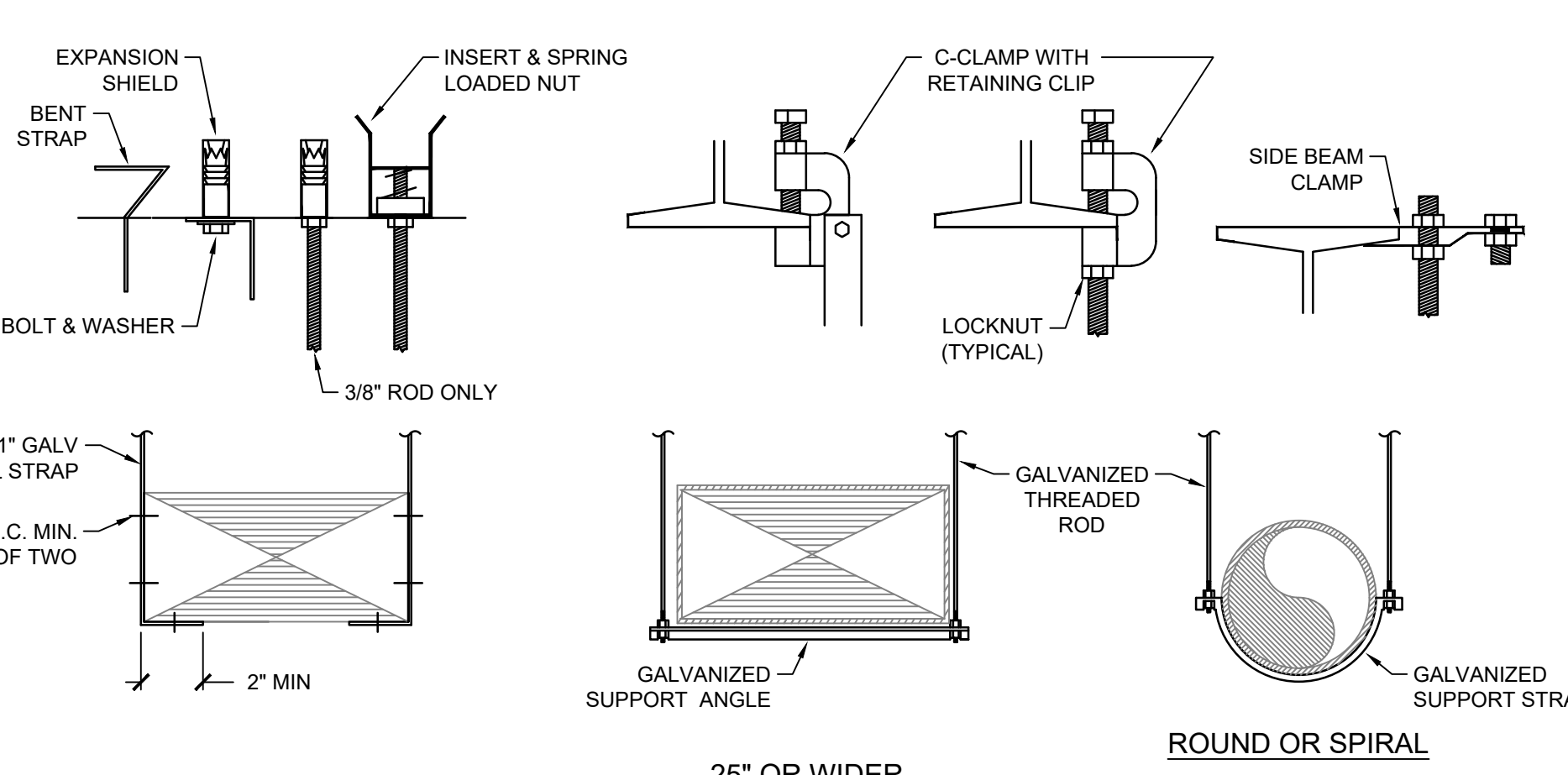
VIBRATION ISOLATOR DETAIL
NOT TO SCALE



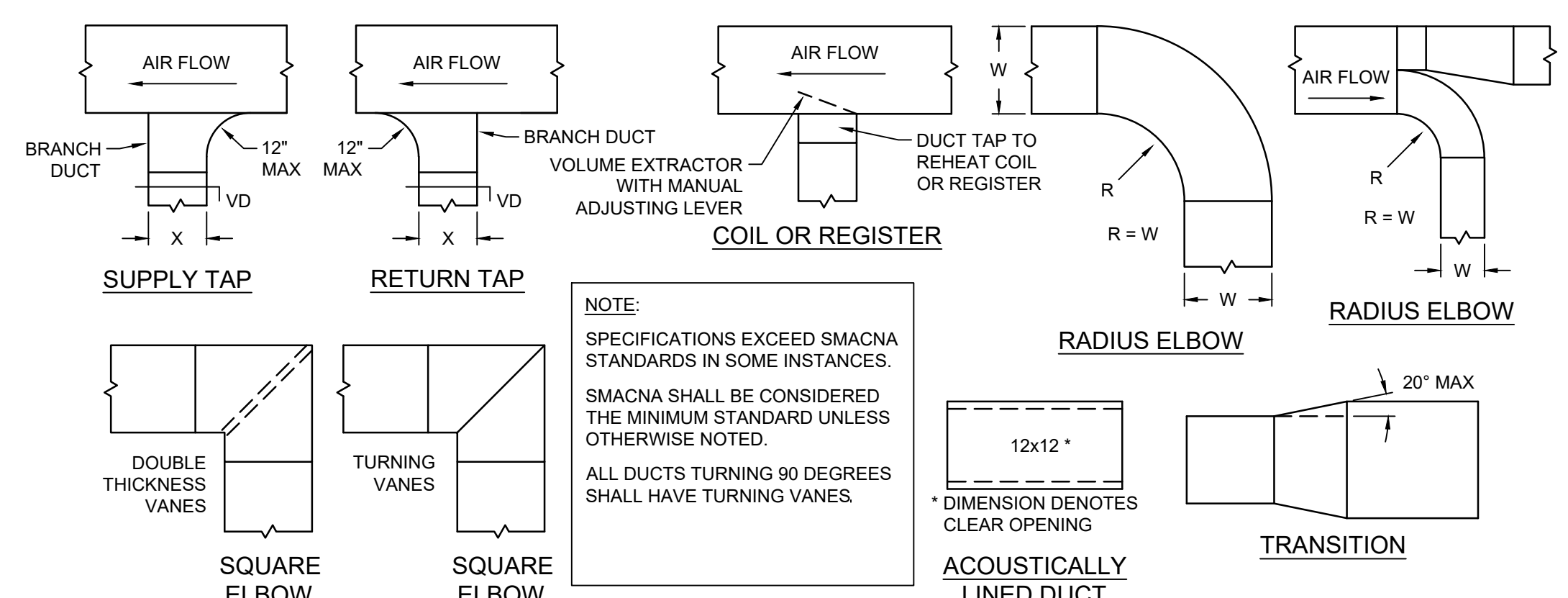
**TYPICAL DIFFUSER CONNECTION
(SIDE OF DUCT CONNECTION)**
NOT TO SCALE



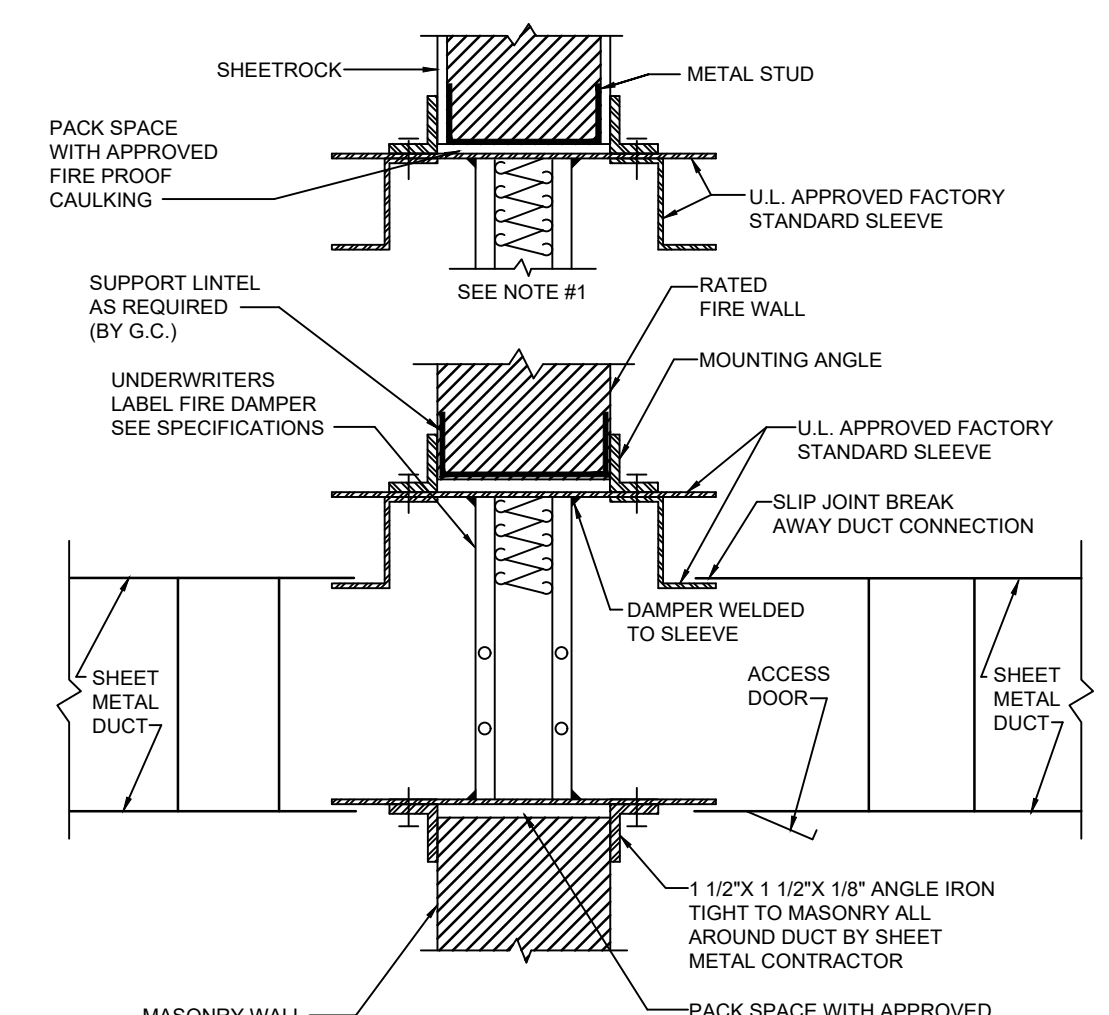
**TYPICAL DIFFUSER CONNECTION
(BOTTOM OF DUCT CONNECTION)**
NOT TO SCALE



DUCTWORK SUPPORTS DETAIL
NOT TO SCALE

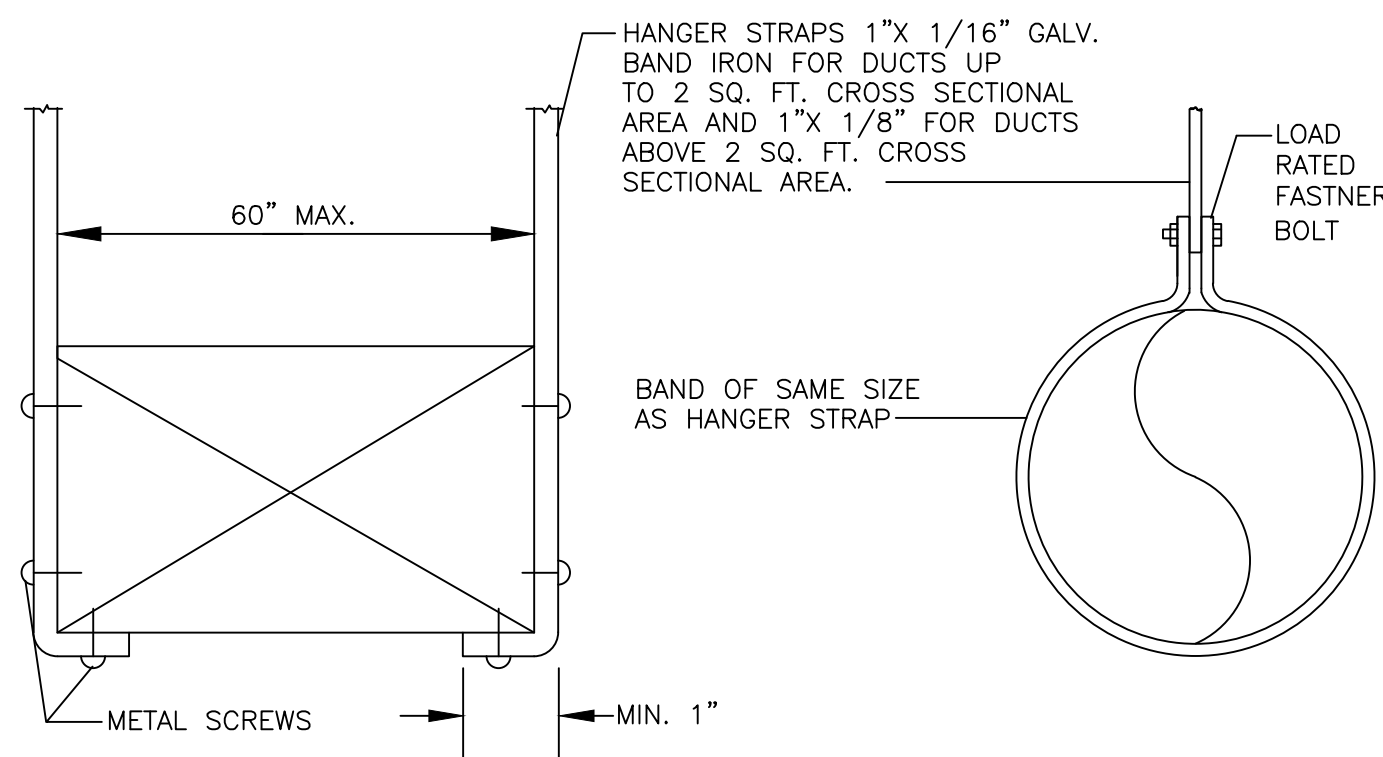


DUCTWORK CONSTRUCTION DETAILS
NOT TO SCALE

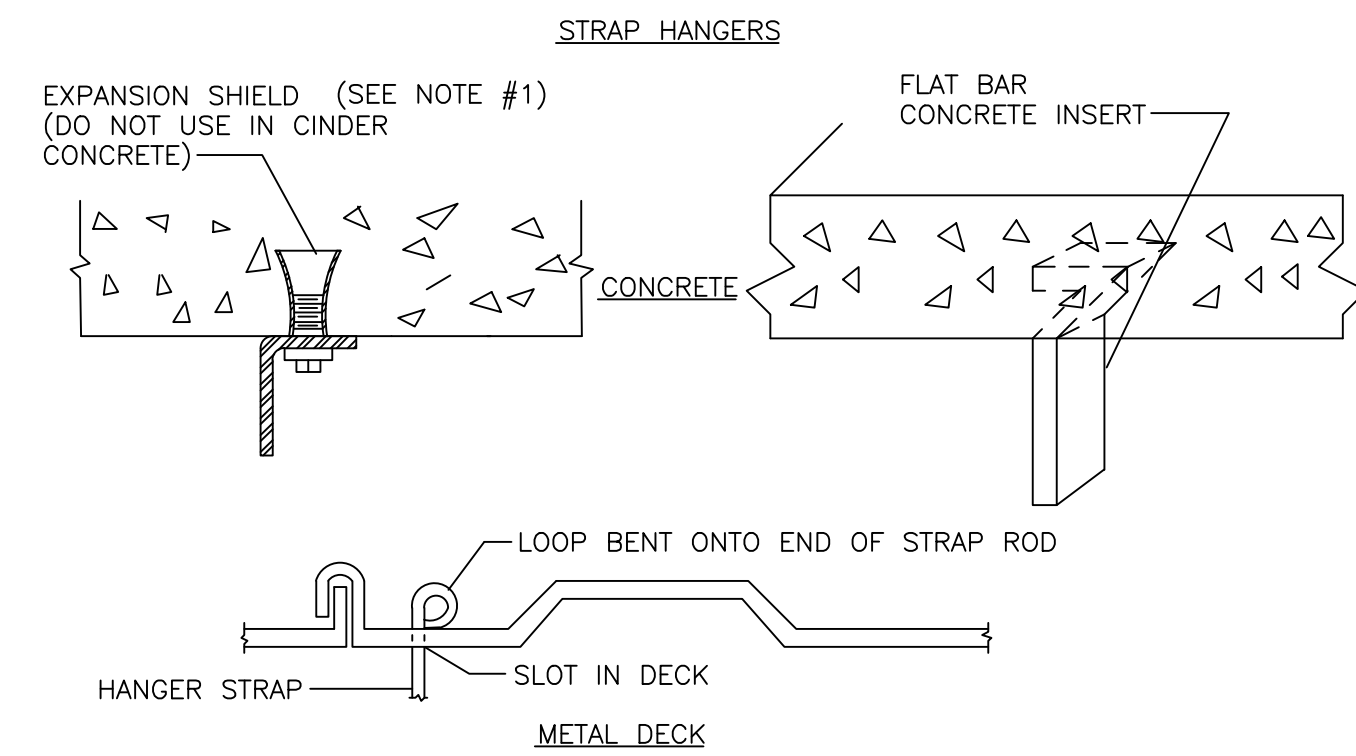


DETAIL OF OUT OF AIR STREAM FIRE DAMPER
NOT TO SCALE

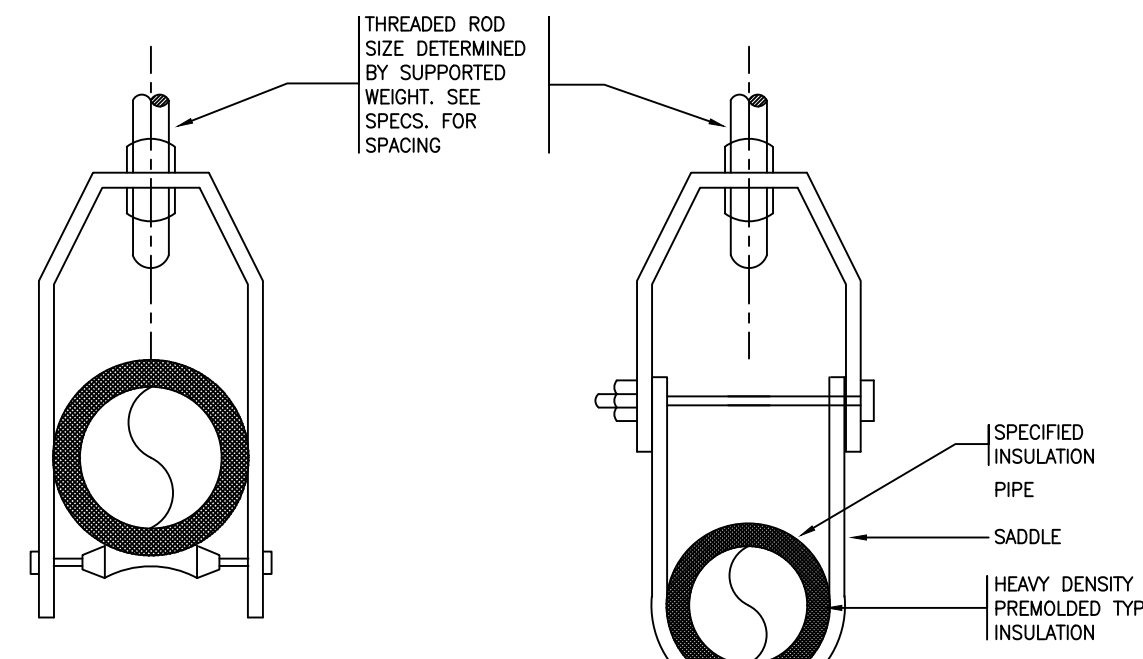
NOTE: ALL DUCTS AND ACCESSORIES DIMENSIONS, GAUGES AND SPACING TO BE PER SMACNA GUIDELINES.



SPACING OF HANGER STRAPS SHALL NOT EXCEED 8'-0" FOR DUCTS 4 SQ. FT. OR LESS, 6'-0" FOR DUCTS 4 SQ. FT. TO 10 SQ. FT. AND 4'-0" FOR DUCTS OVER 10 SQ. FT. OF CROSS SECTIONAL AREA.

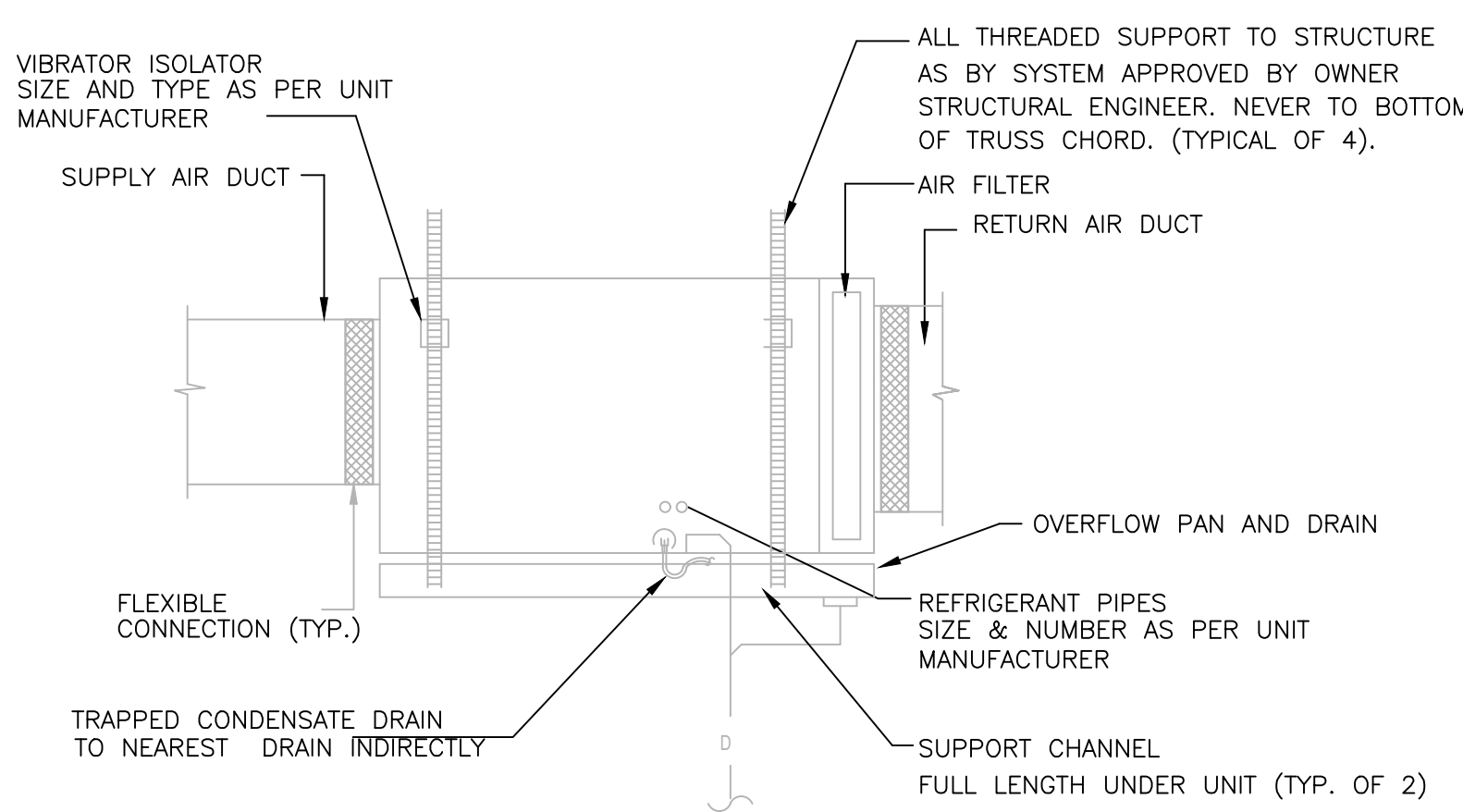


NOTE:
1. FOR N.Y.C. USE BS&A OR MEA APPROVED INSERTS.



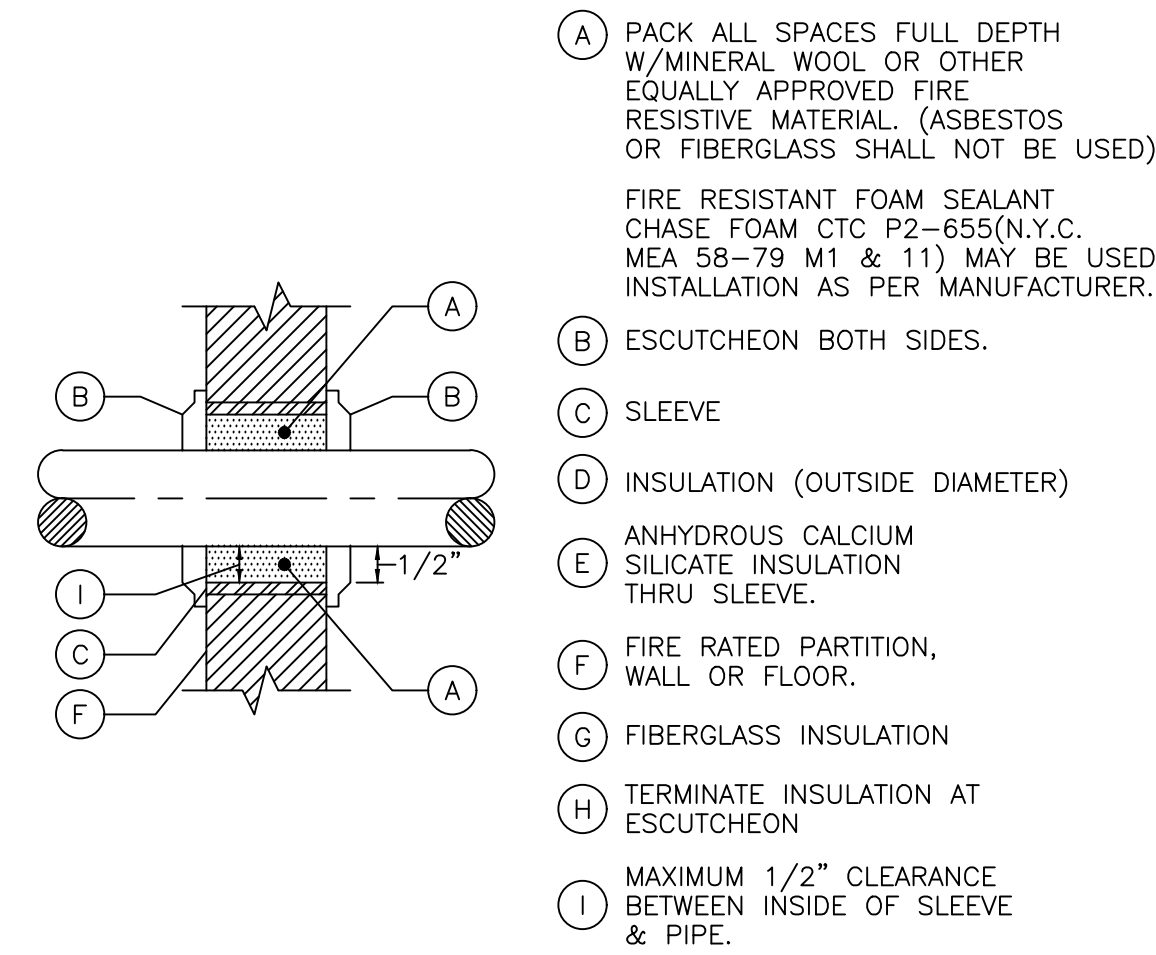
ADJUSTABLE CLEVIS PIPE SUPPORT PIPE HANGERS

NOT TO SCALE



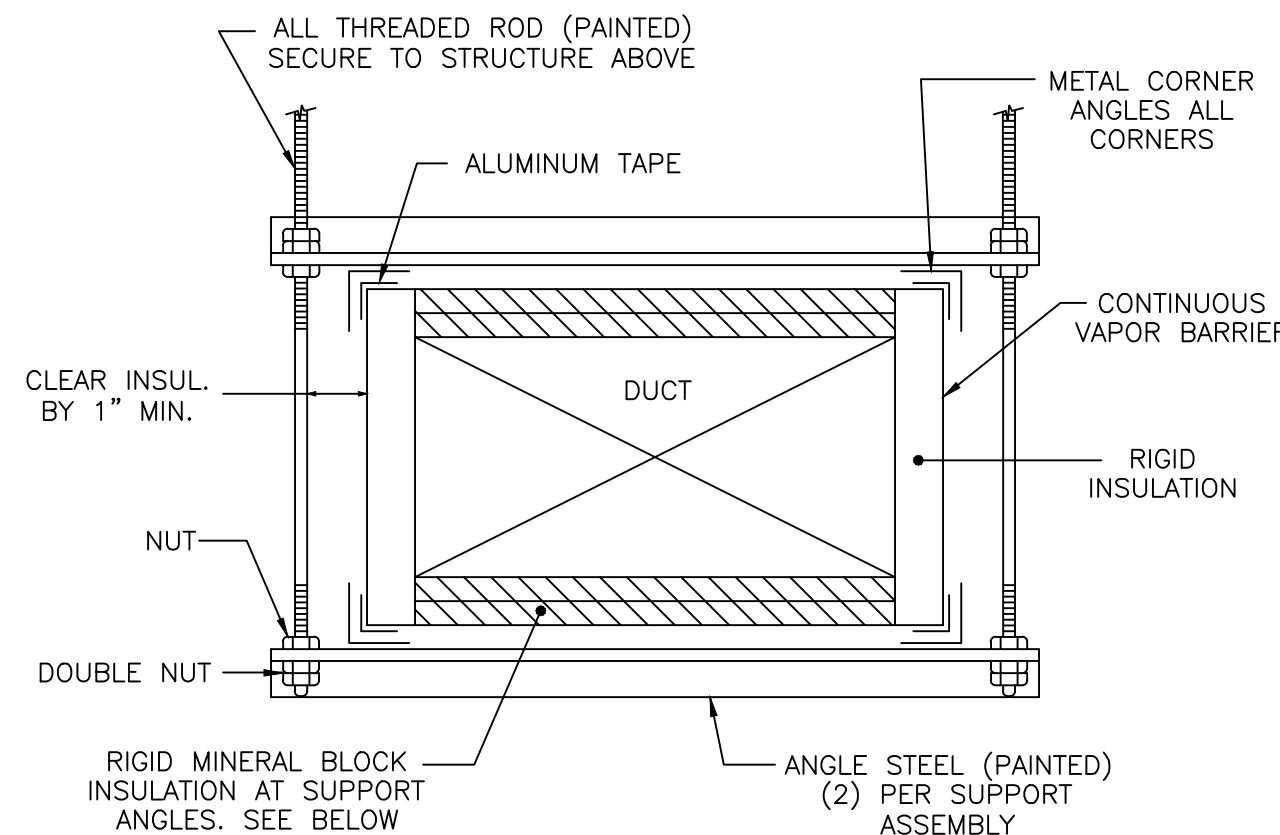
(GF) GAS FURNACE HORIZONTAL INSTALLATION DETAIL

NOT TO SCALE



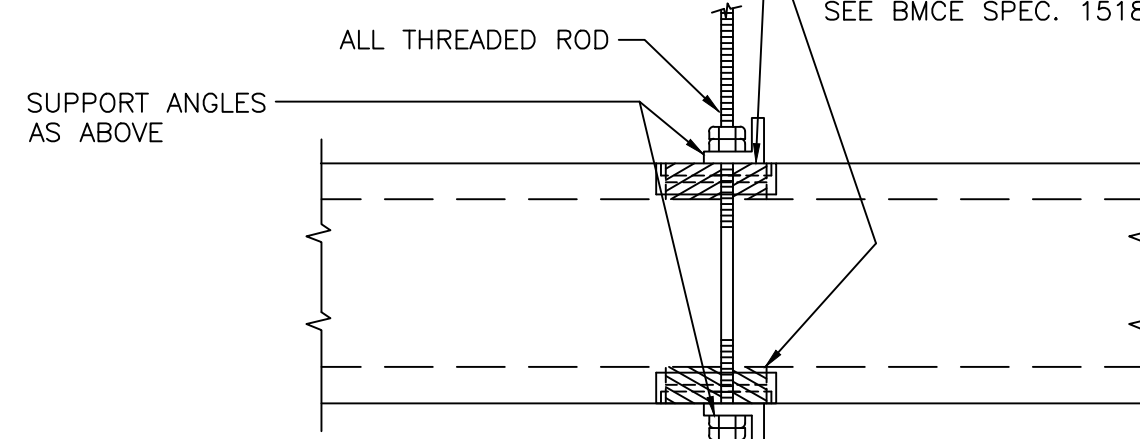
PIPE PENETRATION OF FIRE-RATED PARTITION

NOT TO SCALE



SECTION OF DUCT

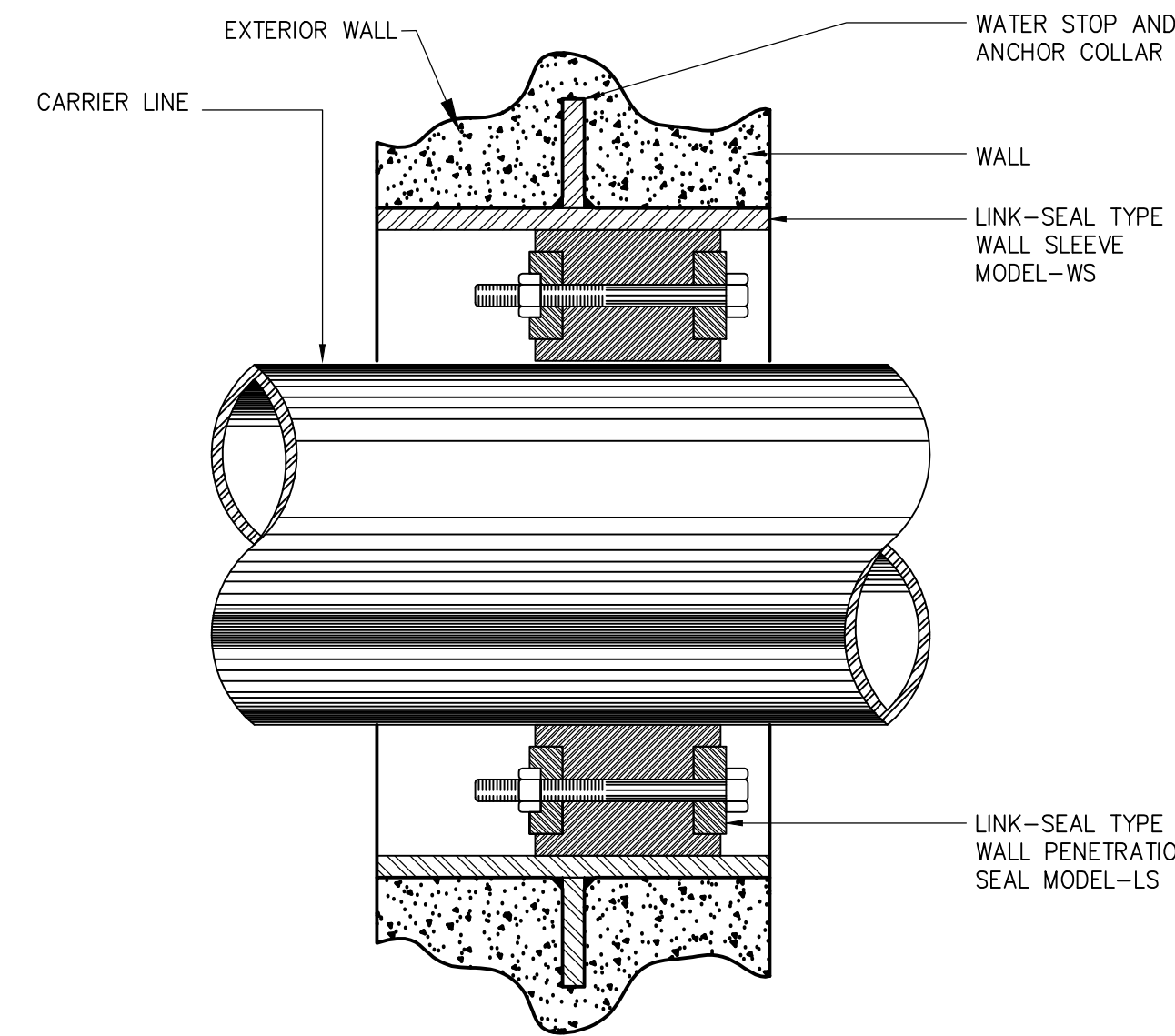
NOTE: USE ALUMINUM DUCT TAPE TO SEAL ALL SEAMS AND REINFORCE CORNERS OF INSULATION. RIGID MINERAL BLOCK INSULATION UNDER STEEL ANGLE. 12" WIDE MIN. FULL WIDTH OF DUCT. SAME THICKNESS AS INSULATION. VAPOR BARRIER CONTINUOUS OVER INSULATION SEE BMCE SPEC. 15180



SIDE VIEW OF DUCT

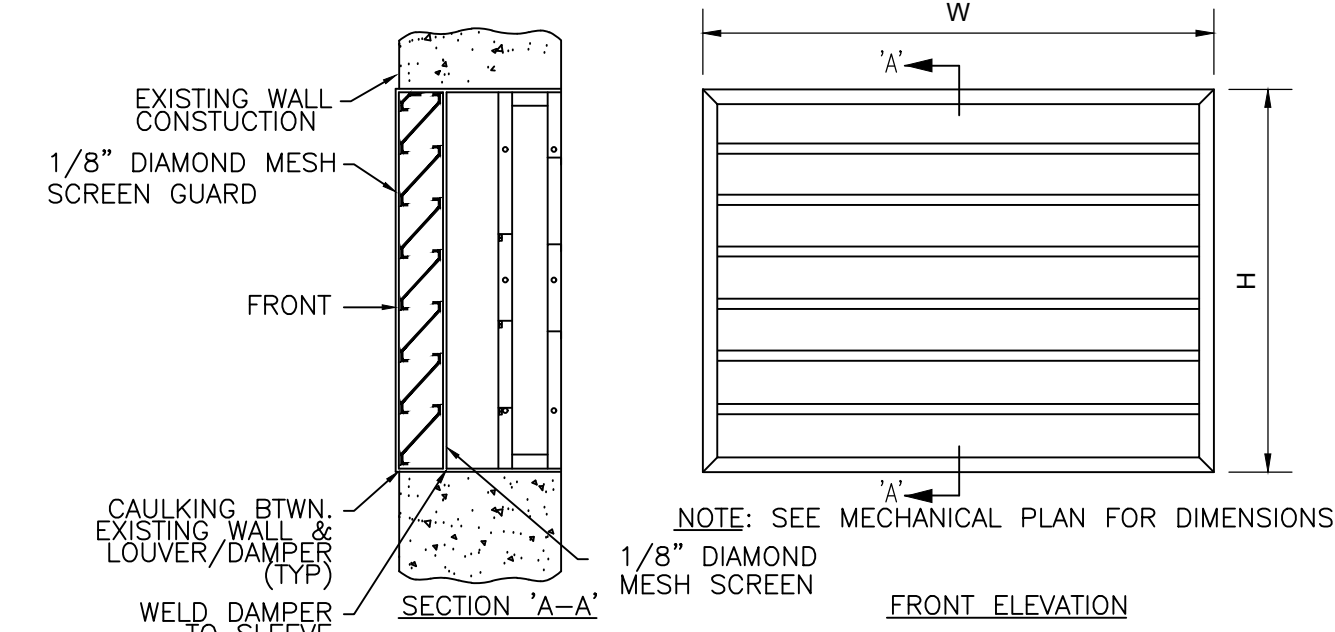
INSULATED DUCT HANGER DETAIL

NOT TO SCALE



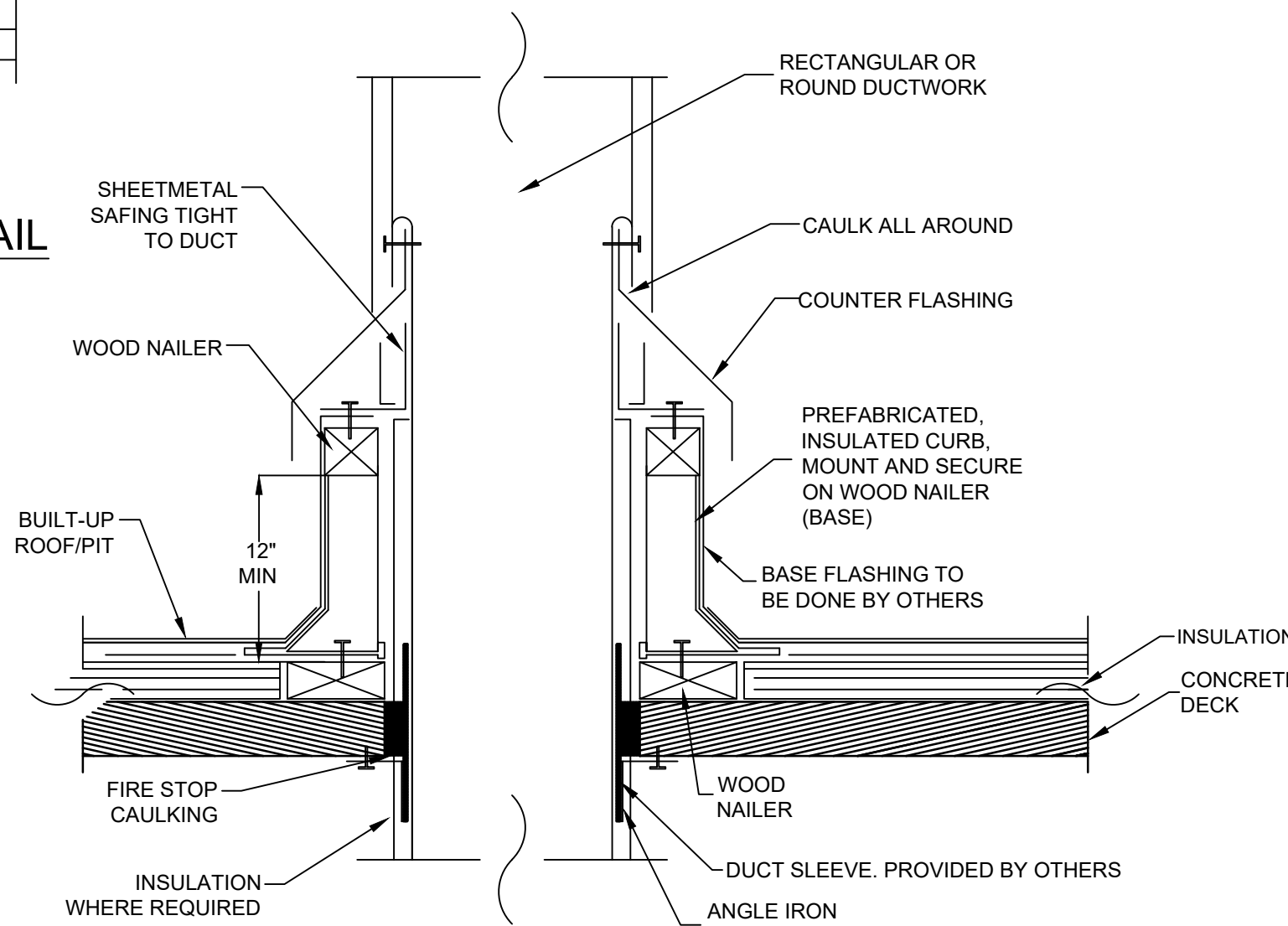
LINK-SEAL THRU WALL PENETRATION INSTALLATION DETAIL

SCALE: NONE



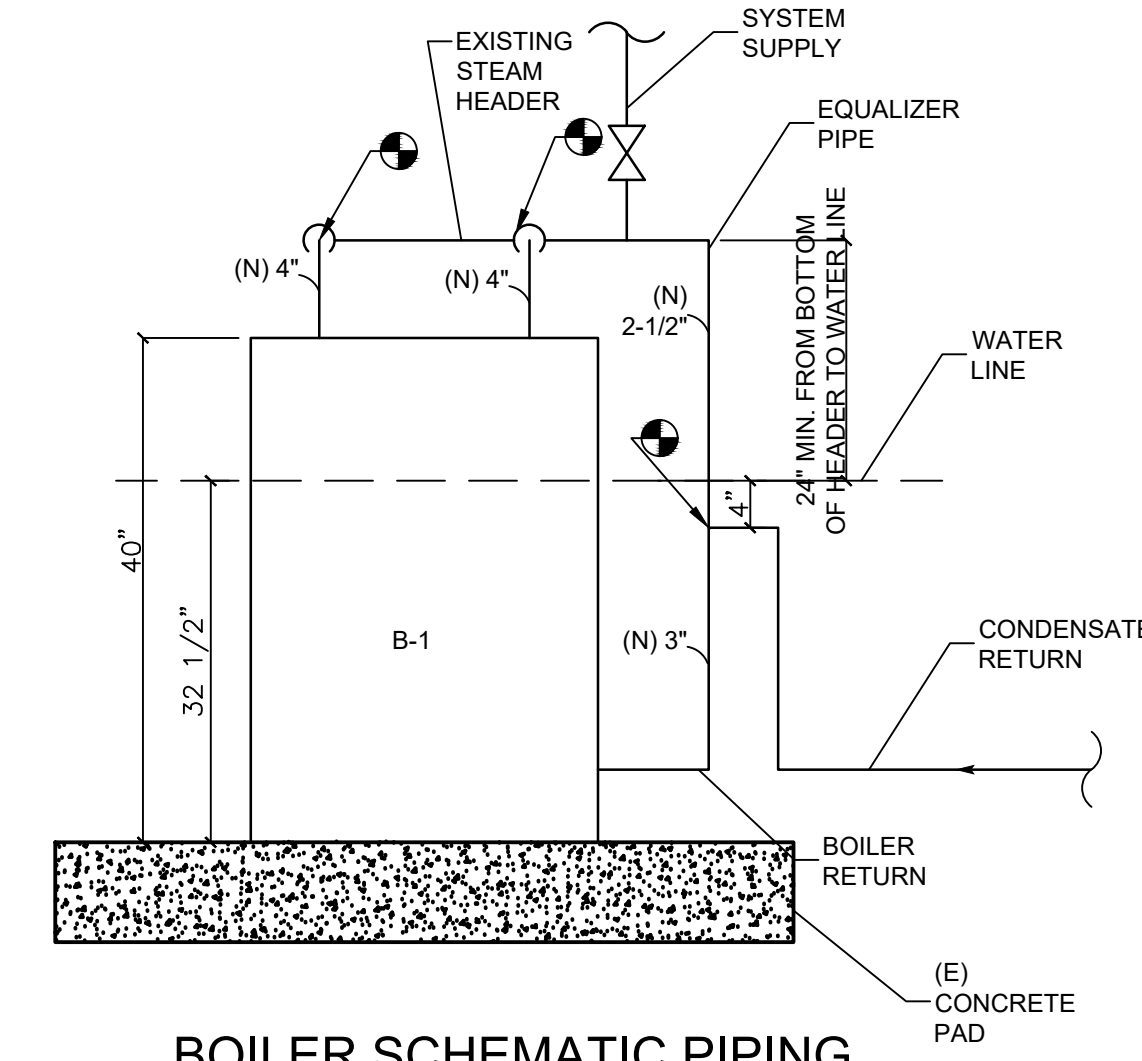
OUTSIDE AIR LOUVER

NOT TO SCALE



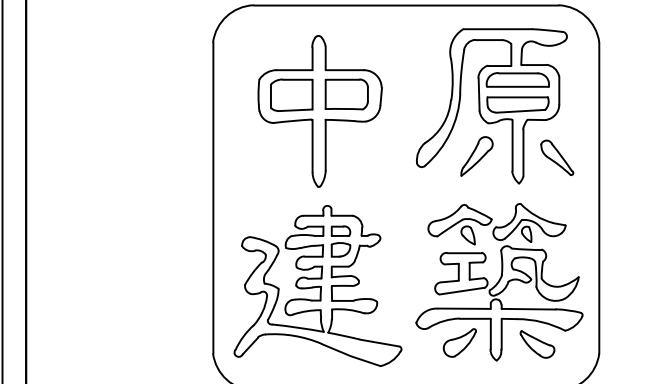
DUCT PENETRATION DETAIL

NOT TO SCALE



BOILER SCHEMATIC PIPING

NOT TO SCALE

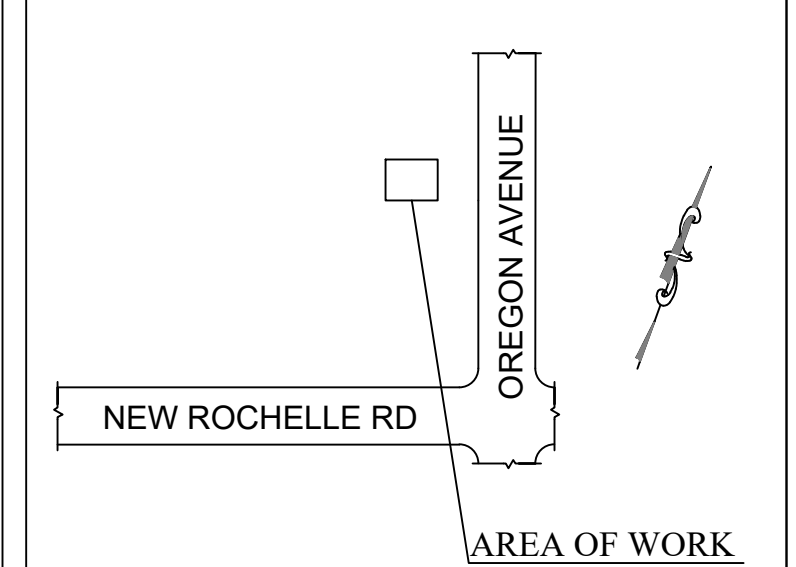


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5		
4		
3		
2	REVISED	9/10/2021
1	CLIENT REVIEW	3/11/2021
NO.	ISSUED FOR	DATE

REVISIONS



SCOPE OF WORK:

**FIRE HOUSE
(MECHANICAL)**

PROJECT LOCATION:

**10 OREGON AVENUE
BRONXVILLE, NY
10708**

SHEET TITLE:

**MECHANICAL
DETAILS**

PROJECT #: 21-0311-00

SCALE: AS NOTED

DATE: 10/20/2020

DRAWN BY: AM

REVIEWED BY: DL/MW



SHEET NO.:

M-105.00

SHEET: 6 OF 7

DOB STAMP & SIGNATURE

DOB JOB #

GENERAL NOTES:

- ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE 2020 NEW YORK STATE BUILDING, PLUMBING AND FUEL GAS CODES AND 2020 NEW YORK STATE ENERGY CONSERVATION CODE, CON EDISON GAS PIPING STANDARDS, ASME POWER PIPING CODE B31.1, LATEST EDITION, AND ALL CODES HAVING JURISDICTION OVER THE WORK.
- CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EXISTING EQUIPMENT AND PIPING IN FIELD PRIOR TO BID, FABRICATION, AND INSTALLATION OF ANY NEW WORK.
- PIPING SHOWN ON PLANS IS DIAGRAMATIC, EXACT ROUTING OF NEW PIPING SHALL BE DETERMINED IN FIELD.
- THE WORDS PROVIDE OR INSTALL, SINGLY OR IN COMBINATION SHALL MEAN FURNISH AND INSTALL.
- THE CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED OR EXISTING WORK, INCLUDING PROTECTION OF BUILDING TENANTS, PUBLIC, AND PERSONNEL. PROVIDE APPROPRIATE BARRIERS, SIGNS, AND SAFETY GUARD RAILS AS REQUIRED.
- LIMIT THE SPREAD OF DUST WHEN CUTTING BY INSTALLING POLYETHYLENE BARRIERS OR TARPULINS TO CONTAIN AIRBORNE MATERIALS.
- WHERE WELDING IS TO TAKE PLACE OR OPEN FLAME IS USED FOR CUTTING, BRAZING, ETC., CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS IN PROXIMITY OF WORK AREA.
- NO SYSTEM SHALL BE SHUT DOWN WITHOUT PERMISSION OF THE BUILDING MANAGEMENT. ADEQUATE NOTICE SHALL BE GIVEN TO THE BUILDING MANAGEMENT AND TENANTS WHEN SYSTEM SHUTDOWN INVOLVES A TEMPORARY DISRUPTION TO BUILDING SERVICES.
- ANY DISRUPTION OF BUILDING SERVICES SHALL BE KEPT TO A MINIMUM NOT TO EXCEED 8 HOURS AND SHALL NOT BE IMPLEMENTED WITHOUT RECEIVING PRIOR WRITTEN APPROVAL OF THE BUILDING MANAGEMENT.
- ALL WORK SHALL BE COORDINATED WITH THE BUILDING MANAGER AND ALL TRADES RELATED TO THE INSTALLATION OF THIS PROJECT.
- THE CONTRACTOR SHALL TURN OVER TO THE OWNER AT THE COMPLETION OF ALL WORK, THREE (3) COPIES OF OPERATING, MAINTENANCE, AND INSTRUCTION MANUALS WHICH SHALL INCLUDE ALL EQUIPMENT BROCHURES, PIPING AND WIRING DIAGRAMS, DRAWINGS, TEMPERATURE CONTROLS, AND START-UP AND SHUTDOWN PROCEDURES OF ALL NEW EQUIPMENT INSTALLED.
- THE CONTRACTOR SHALL FILE FOR AND SECURE ALL PLANS, PERMITS AND PAY ALL FEES REQUIRED FOR THE INSTALLATION OF THIS WORK WITH THE MUNICIPAL AGENCIES AND AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORK INSTALLED TO BE FREE FROM DEFECTS IN WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR, AFTER ACCEPTANCE OF THE INSTALLATION BY THE ENGINEER AND OWNER. THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT STATING SAME TO THE OWNER.
- THE CONTRACTOR SHALL SUBMIT INSURANCE CERTIFICATES TO THE OWNER IN THE AMOUNT OF \$1,000,000 FOR LIABILITY AND BODILY INJURY PRIOR TO COMMENCING ANY WORK AND SHALL INDEMNIFY THE OWNER, HIS REPRESENTATIVES AND THE ENGINEER FROM ANY CLAIMS OR SUITS RESULTING IN NEGLIGENCE ON THE PART OF THE CONTRACTOR FOR FAILING TO EXECUTE HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE ALL RIGGING, HOISTING, AND SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
- ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS IN THE TRADE HAVING JURISDICTION.
- ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER OR OWNER.
- ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS: 8 A.M. TO 5 P.M. MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS OR FOR EMERGENCY REPAIRS, UNLESS DIRECTED OTHERWISE BY THE BUILDING MANAGEMENT.
- PATCHING OF WALLS SHALL MATCH EXISTING SURROUNDING AREA IN ALL RESPECTS. WORK AREA SHALL BE LEFT BROOM CLEAN AT THE END OF EACH DAY. ALL REMOVED MATERIAL AND RUBBISH SHALL BE DISCARDED FROM PREMISES DAILY IN AN APPROVED AND SAFE MANNER.
- THE CONTRACTOR SHALL SUBMIT 6 SETS OF SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS INCLUDING CONTROL WIRING DIAGRAMS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK. SHOP DRAWINGS SHALL INDICATE STRUCTURAL MEMBERS, WALLS, FLOORS, PIPING, DUCTWORK, ETC., WITH ELEVATIONS AT WHICH NEW WORK IS TO BE INSTALLED.
- THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF SHOP DRAWINGS IN WHICH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED. UPON COMPLETION OF THE INSTALLATION OF NEW WORK THE CONTRACTOR SHALL TURN OVER TO THE OWNER AND ENGINEER TWO (2) PRINTS OF AS-BUILT SHOP DRAWINGS INCLUDING ALL APPROVED FIELD CHANGES AND DEVIATIONS. PRIOR TO FINAL PAYMENT THE CONTRACTOR SHALL SUBMIT ONE SET OF SEPIAS WITH CORRECTIONS NOTED TO THE OWNER SIGNED AS BUILT BY A PRINCIPAL OF THE FIRM AND DATED.

SPECIFICATIONS:

A. PIPING:

I. PEX TUBE AND FITTINGS

- PEX DISTRIBUTION SYSTEM: ASTM F 877, SDR 9 TUBING.
- FITTINGS FOR PEX TUBE: ASTM F 1807, METAL-INSERT TUBE WITH COPPER OR STAINLESS-STEEL CRIMP RINGS AND MATCHING PEX TUBE DIMENSIONS.
- MANIFOLD: MULTIPLE-OUTLET, PLASTIC OR CORROSION-RESISTANT-METAL ASSEMBLY COMPLYING WITH ASTM F 877; WITH PLASTIC OR CORROSION-RESISTANT-METAL VALVE FOR EACH OUTLET.

II. COPPER TUBE AND FITTINGS

- HARD COPPER TUBE: ASTM B 88: TYPE L, TYPE M AND TYPE K WATER TUBE, DRAWN TEMPER.
- CAST-COPPER, SOLDER-JOINT FITTINGS: ASME B16.18, PRESSURE FITTINGS.
- WROUGHT-COPPER, SOLDER-JOINT FITTINGS: ASME B16.22, WROUGHT-COPPER PRESSURE FITTINGS.
- BRONZE FLANGES: ASME B 16.24, CLASS 150, WITH SOLDER-JOINT ENDS.

ENDS.

- COPPER UNIONS:
 - MSS SP-123.
 - CAST-COPPER-ALLOY, HEXAGONAL-STOCK BODY.
 - BALL-AND-SOCKET, METAL-TO-METAL SEATING SURFACES.
 - SOLDER-JOINT OR THREADED ENDS.
- COPPER PRESSURE-SEAL-JOINT FITTINGS
 - FITTINGS FOR NPS 2 AND SMALLER: WROUGHT-COPPER FITTING WITH EPDM-RUBBER, O-RING SEAL IN EACH END.
 - FITTINGS FOR NPS 2-1/2 TO NPS 4: CAST-BRONZE OR WROUGHT-COPPER FITTING WITH EPDM-RUBBER, O-RING SEAL IN EACH END.

III. CPVC PIPING

- CPVC PIPE: ASTM F 441/F 441M, SCHEDULE 40 AND SCHEDULE 80.
- CPVC SOCKET FITTINGS: ASTM F 439 FOR SCHEDULE 40 AND ASTM F 439 FOR SCHEDULE 80.
- CPVC THREADED FITTINGS: ASTM F 437, SCHEDULE 80.
- CPVC PIPING SYSTEM: ASTM D 2846/D 2846M, SDR 11, PIPE AND SOCKET FITTINGS.
- CPVC TUBING SYSTEM: ASTM D 2846/D 2846M, SDR 11, TUBE AND SOCKET FITTINGS.

IV. PVC PIPE AND FITTINGS

- PVC PIPE: ASTM D 1785, SCHEDULE 40 AND SCHEDULE 80.
- PVC SOCKET FITTINGS: ASTM D 2466 FOR SCHEDULE 40 AND ASTM D 2467 FOR SCHEDULE 80.
- PVC SCHEDULE 80 THREADED FITTINGS: ASTM D 2464.

V. PIPING JOINING MATERIALS

- PIPE-FLANGE GASKET MATERIALS:
 - AWWA C110/A21.10, RUBBER, FLAT FACE, 1/8 INCH THICK OR ASME B16.21, NONMETALLIC AND ASBESTOS FREE UNLESS OTHERWISE INDICATED.
 - FULL-FACE OR RING TYPE UNLESS OTHERWISE INDICATED.
- METAL PIPE-FLANGE BOLTS AND NUTS: ASME B18.2.1, CARBON STEEL UNLESS OTHERWISE INDICATED.
- SOLDER FILLER METALS: ASTM B 32, LEAD-FREE ALLOYS.
- FLUX: ASTM B 813, WATER FLUSHABLE.
- BRAZING FILLER METALS: AWS A5.8/A5.8M, BCUP SERIES, COPPER-PHOSPHORUS ALLOYS FOR GENERAL-DUTY BRAZING UNLESS OTHERWISE INDICATED.
- SOLVENT CEMENTS FOR JOINING CPVC PIPING AND TUBING: ASTM F 493.
 - CPVC SOLVENT CEMENT SHALL HAVE A VOC CONTENT OF 490 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
 - ADHESIVE PRIMER SHALL HAVE A VOC CONTENT OF 550 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
- SOLVENT CEMENT AND ADHESIVE PRIMER SHALL COMPLY WITH THE TESTING AND PRODUCT REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES' "STANDARD PRACTICE FOR THE TESTING OF VOLATILE ORGANIC EMISSIONS FROM VARIOUS SOURCES USING SMALL-SCALE ENVIRONMENTAL CHAMBERS."
- SOLVENT CEMENTS FOR JOINING PVC PIPING: ASTM D 2564. INCLUDE PRIMER ACCORDING TO ASTM F 656.
 - PVC SOLVENT CEMENT SHALL HAVE A VOC CONTENT OF 510 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
 - ADHESIVE PRIMER SHALL HAVE A VOC CONTENT OF 550 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
 - SOLVENT CEMENT AND ADHESIVE PRIMER SHALL COMPLY WITH THE TESTING AND PRODUCT REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES' "STANDARD PRACTICE FOR THE TESTING OF VOLATILE ORGANIC EMISSIONS FROM VARIOUS SOURCES USING SMALL-SCALE ENVIRONMENTAL CHAMBERS."
- PLASTIC PIPE-FLANGE GASKETS, BOLTS, AND NUTS: TYPE AND MATERIAL RECOMMENDED BY PIPING SYSTEM MANUFACTURER UNLESS OTHERWISE INDICATED.

PIPING (CONT.):

VI. TRANSITION FITTINGS

- GENERAL REQUIREMENTS:
 - SAME SIZE AS PIPES TO BE JOINED.
 - PRESSURE RATING AT LEAST EQUAL TO PIPES TO BE JOINED.
 - END CONNECTIONS COMPATIBLE WITH PIPES TO BE JOINED.
- FITTING-TYPE TRANSITION COUPLINGS: MANUFACTURED PIPING COUPLING OR SPECIFIED PIPING SYSTEM FITTING.
- PLASTIC-TO-METAL TRANSITION FITTINGS:
 - *DESCRIPTION:
 - CPVC OR PVC ONE-PIECE FITTING WITH MANUFACTURER'S SCHEDULE 80 EQUIVALENT DIMENSIONS.
 - ONE END WITH THREADED BRASS INSERT AND ONE SOLVENT-CEMENT-SOCKET OR THREADED END.
 - PLASTIC-TO-METAL TRANSITION UNIONS:
 - *DESCRIPTION:
 - CPVC OR PVC FOUR-PART UNION.
 - BRASS OR STAINLESS-STEEL THREADED END.
 - SOLVENT-CEMENT-JOINT OR THREADED PLASTIC END.
 - RUBBER O-RING.
 - UNION NUT.

VII. GAS PIPING:

PIPING SHALL BE SCHEDULE 40 STEEL WITH 150 LBS. MALLEABLE IRON SCREWED FITTINGS. GAS PIPING OVER 3" SHALL BE WELDED AS PER CON EDISON REQUIREMENTS

VIII. DIELECTRIC FITTINGS

- GENERAL REQUIREMENTS: ASSEMBLY OF COPPER ALLOY AND FERROUS MATERIALS WITH SEPARATING NONCONDUCTIVE INSULATING MATERIAL. INCLUDE END CONNECTIONS COMPATIBLE WITH PIPES TO BE JOINED.
- DIELECTRIC UNIONS:
 - STANDARD: ASSE 1079.
 - PRESSURE RATING: 125 PSIG (MINIMUM AT 180 DEG F.
 - END CONNECTIONS: SOLDER-JOINT COPPER ALLOY AND THREADED FERROUS.
- DIELECTRIC FLANGES:
 - STANDARD: ASSE 1079.
 - FACTORY-FABRICATED, BOLTED, COMPANION-FLANGE ASSEMBLY.
 - PRESSURE RATING: 125 PSIG MINIMUM AT 180 DEG F.
 - END CONNECTIONS: SOLDER-JOINT COPPER ALLOY AND THREADED FERROUS; THREADED SOLDER-JOINT COPPER ALLOY AND THREADED FERROUS.
- DIELECTRIC-FLANGE INSULATING KITS:
 - NONCONDUCTING MATERIALS FOR FIELD ASSEMBLY OF COMPANION FLANGES.
 - PRESSURE RATING: 150 PSIG (1035 KPA).
 - GASKET: NEOPRENE OR PHENOLIC.
 - BOLT SLEEVES: PHENOLIC OR POLYETHYLENE.
 - WASHERS: PHENOLIC WITH STEEL BACKING WASHERS.
- DIELECTRIC NIPPLES:
 - STANDARD: IAPMO PS 66.
 - ELECTROPLATED STEEL NIPPLE COMPLYING WITH ASTM F 1545.
 - PRESSURE RATING AND TEMPERATURE: 300 PSIG AT 225 DEG F.
 - END CONNECTIONS: MALE THREADED OR GROOVED.
 - LINING: INERT AND NONCORROSIVE, PROPYLENE.

XI. PIPING INSULATION

ALL COLD AND HOT WATER PIPING TO BE INSULATED WITH R-3 INSULATION.

INSULATION MATERIALS

- PRODUCTS SHALL NOT CONTAIN ASBESTOS, LEAD, MERCURY, OR MERCURY COMPOUNDS.
- PRODUCTS THAT COME IN CONTACT WITH STAINLESS STEEL SHALL HAVE A LEACHABLE CHLORIDE CONTENT OF LESS THAN 50 PPM WHEN TESTED ACCORDING TO ASTM C 871.
- INSULATION MATERIALS FOR USE ON AUSTENITIC STAINLESS STEEL SHALL BE QUALIFIED AS ACCEPTABLE ACCORDING TO ASTM C 795.
- FOAM INSULATION MATERIALS SHALL NOT USE CFC OR HCFC BLOWING AGENTS IN THE MANUFACTURING PROCESS.
- CELLULAR GLASS: INORGANIC, INCOMBUSTIBLE, FOAMED OR CELLULATED GLASS WITH ANNEALED, RIGID, HERMETICALLY SEALED CELLS.
 - BLOCK INSULATION: ASTM C 552, TYPE I.
 - SPECIAL-SHAPED INSULATION: ASTM C 552, TYPE III.
 - BOARD INSULATION: ASTM C 552, TYPE IV.
 - PREFORMED PIPE INSULATION WITHOUT JACKET: COMPLY WITH ASTM C 552, TYPE II, CLASS 1.
 - PREFORMED PIPE INSULATION WITH FACTORY-APPLIED: COMPLY WITH ASTM C 552, TYPE II, CLASS 2.
 - FACTORY FABRICATE SHAPES ACCORDING TO ASTM C 450 AND ASTM C 585.
- FLEXIBLE ELASTOMERIC INSULATION: CLOSED-CELL, SPONGE-OR EXPANDED-RUBBER MATERIALS. COMPLY WITH ASTM C 534, TYPE I FOR TUBULAR MATERIALS.
- MINERAL-FIBER BLANKET INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 1290, TYPE I.
- MINERAL-FIBER, PREFORMED PIPE INSULATION:
 - TYPE I, 850 DEG F MATERIALS: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 547, TYPE I, GRADE A, WITHOUT FACTORY-APPLIED JACKET.
 - TYPE II, 1200 DEG F MATERIALS: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 547, TYPE II, GRADE A, WITHOUT FACTORY-APPLIED JACKET.
- MINERAL-FIBER, PIPE INSULATION WICKING SYSTEM: PREFORMED PIPE INSULATION COMPLYING WITH ASTM C 547, TYPE I, GRADE A, WITH ABSORBENT CLOTH FACTORY-APPLIED TO THE ENTIRE INSIDE SURFACE OF PREFORMED PIPE INSULATION AND EXTENDED THROUGH THE LONGITUDINAL JOINT TO OUTSIDE SURFACE OF INSULATION UNDER INSULATION JACKET. FACTORY APPLY A WHITE, POLYMER, VAPOR-RETARDER JACKET WITH SELF-SEALING ADHESIVE TAPE SEAM AND EVAPORATION HOLES RUNNING CONTINUOUSLY ALONG THE LONGITUDINAL SEAM, EXPOSING THE ABSORBENT CLOTH.
- POLYOLEFIN: UNICELLULAR, POLYETHYLENE THERMAL PLASTIC INSULATION. COMPLY WITH ASTM C 534 OR ASTM C 1427, TYPE I, GRADE 1 FOR TUBULAR MATERIALS AND TYPE II, GRADE 1 FOR SHEET MATERIALS.

PIPING (CONT.):

X. PIPING SUPPORTS

1. ALL PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE ONLY USING APPROVED TYPE CLEVIS HANGERS, BEAM CLAMPS, THREADED RODDOR AS PER MANUFACTURER'S RECOMMENDATIONS.

XI. PIPING VALVES AND SPECIALTIES LOW PRESSURE STEAM AND CONDENSATE PIPING

1. PIPING SHALL BE SCHEDULE 40 STEEL, SEAMLESS, ASTM-A53 GRADE A OR B WITH 150 LB. STEEL WELD NECK FITTINGS AND FLANGES IN SIZES 2-1/2 AND LARGER. FLANGE GASKETS SHALL BE NON-ASBESTOS, 304 S.S. SPIRAL WOUND, SIMILAR TO FLEXITALLIC. PIPING 2" AND SMALLER SHALL BE SCREWED WITH 125 LB. CAST IRON FLAT BAND STEAM FITTINGS.

XII. FUEL OIL

1. PIPING SHALL BE SCHEDULE 40 STEEL WITH 150 LBS. MALLEABLE IRON SCREWED FITTINGS.

XIII. GAS PIPING

1. PIPING SHALL BE SCHEDULE 40 STEEL WITH 150 LBS. MALLEABLE IRON SCREWED FITTINGS. GAS PIPING OVER 3" SHALL BE WELDED PER CON EDISON REQUIREMENTS.

XIV. COLD WATER, HOT WATER & RECIRCULATING WATER PIPING

1. PIPING SHALL BE COPPER TUBING TYPE L WITH WROUGHT COPPER SWEAT FITTINGS AND 95/5 BRAZED JOINTS.

DUCTWORK

1. GENERAL REQUIREMENTS

- CONSTRUCT ALL APPARATUS OF MATERIALS AND PRESSURE RATINGS SUITABLE FOR THE CONDITIONS ENCOUNTERED DURING CONTINUOUS OPERATION.
- WHERE CORROSION CAN OCCUR, APPROPRIATE CORROSION RESISTANT MATERIALS AND ASSEMBLY METHODS MUST BE USED.
- PROVIDE ALL CONTROLS, WIRING, PIPING, VALVES, TUBING ACCESSORIES AND OTHER COMPONENTS NECESSARY TO MAKE ALL SYSTEMS COMPLETE AND OPERABLE.

2. CODES

- ALL WORK SHALL MEET WITH THE 2015 INTERNATIONAL BUILDING, MECHANICAL AND FUEL GAS CODES AS MODIFIED BY 2016 UNIFORM CODE SUPPLEMENT OF NEW YORK. ALL WORK SHALL ALSO COMPLY WITH 2015 INTERNATIONAL ENERGY CONSERVATION CODE AS MODIFIED BY 2016 SUPPLEMENT TO THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE (REVISED AUGUST 2016)

3. SHOP DRAWINGS AND SUBMITTALS REQUIRED

- MANUFACTURER'S DATA OR SHOP DRAWINGS OF THE FOLLOWING APPARATUS GIVING FULL INFORMATION AS TO DIMENSIONS, MATERIALS AND ALL INFORMATION PERTINENT TO THE ADEQUACY OF THE PROPOSED EQUIPMENT SHALL BE SUBMITTED.
 - GAS-FIRED FURNACES
 - CONDENSING UNITS
 - DUCTWORK LAYOUT
 - AIR BALANCING REPORT

4. TESTING AND BALANCING

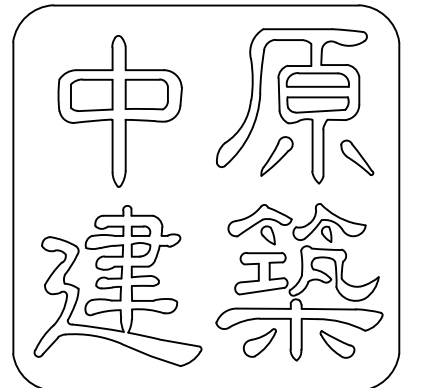
- ALL FANS AND DUCT SYSTEMS SHALL BE COMPLETELY BALANCED BY THE ADJUSTMENT OF SHAFTS, DAMPERS, REGISTERS AND OTHER DEVICES TO OBTAIN THE AIR QUANTITIES INDICATED ON THE DESIGN DRAWINGS.

5. DUCTWORK

- PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES AND PERFORM ALL OPERATIONS REQUIRED FOR COMPLETE INSTALLATION OF THE DUCTWORK, REGISTERS, DAMPERS AND ALL AUXILIARY WORK OF ANY KIND, NECESSARY TO MAKE THE VARIOUS AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS OF THE BUILDING COMPLETE AND READY FOR SATISFACTORY OPERATION.
- INSTALL DUCTS, PLENUMS AND HANGERS PLUMB AND LEVEL, WITH JOINTS SQUARE AND DEVOID OF SHARP EDGES. ROUTE DUCTWORK TO MINIMIZE DIRECTIONAL CHANGES AND ABRUPT TRANSITIONS. PROVIDE ADEQUATE SPACE AROUND DUCTS TO ASSURE PROPER SUPPORT AND TO ALLOW THE INSTALLATION OF THE INSULATION SPECIFIED.
- ANY DUCTWORK PASSING THROUGH WATERPROOF WALL OR ROOF CONSTRUCTIONS SHALL BE PROVIDED WITH COUNTERFLASHING BY THIS CONTRACTOR.
- CONSTRUCT AND SUPPORT ALL DUCTWORK AND FAN AND APPARATUS PLENUMS IN ACCORDANCE WITH THE LATEST STANDARDS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION. ALL WORK, MATERIALS AND EQUIPMENT SHALL COMPLY WITH THE LATEST REQUIREMENTS OF NFPA 90A AND THE LOCAL AUTHORITIES HAVING JURISDICTION.
- BRAZING, GAUGES AND SUPPORTS INDICATED IN SMACNA MANUALS ARE THE MINIMUM ACCEPTABLE. INSTALL ADDITIONAL BRAZING OR SUPPORTS TO ELIMINATE ANY DISTORTION OR VIBRATION WHEN THE SYSTEMS ARE OPERATING OR UNDER TESTS. NO DUCT SHALL BE LESS THAN 24 GAUGE.
- HANGERS AND SUPPORTS
 - PROVIDE HANGERS AND SUPPORTS TO SUPPORT THE WEIGHT OF DUCTS AND ASSOCIATED EQUIPMENT. FASTEN HANGERS AND SUPPORTS TO STEEL STRUCTURE BY BEAM CLAMPS OR BY STEEL CLIPS WELDED TO THE LOWER FLANGES OF BEAMS AND GIRDERS AND TO CONCRETE STRUCTURE BY INSERTS OR EXPANSION ANCHORS. PROVIDE FASTENINGS ADEQUATE TO INSURE PERMANENT STABILITY, TO EFFECTIVELY RESIST ALL APPLIED LOADS AND STRAINS, AND TO COMPLY WITH APPLICABLE CODES.

7. FLEXIBLE CONNECTIONS

- INSTALL AIRTIGHT FLEXIBLE CONNECTIONS WHERE DUCTWORK OR CASINGS CONNECT TO FAN INLETS AND DISCHARGES. FASTEN CONNECTION SECURELY WITH BOLTED CLAMPS. MAKE THE UNCLAMPED PORTION OF THE CONNECTION NOT LESS THAN 6" LONG, CRIMPED FOR FLEXIBILITY. CONSTRUCTION - 30 OUNCE CLOSELY WOVEN GLASS FABRIC, DOUBLE-COATED WITH NEOPRENE; VENTFABRICS, INC. "VENTGLAS" OR EQUIVALENT.

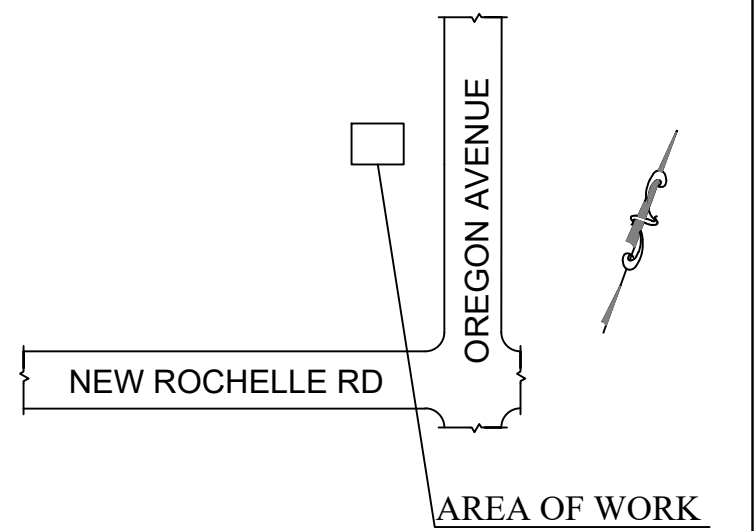


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5		
4		
3		
2	REVISED	9/10/2021
1	CLIENT REVIEW	3/11/2021
NO.	ISSUED FOR	DATE

REVISIONS



SCOPE OF WORK:

**FIRE HOUSE
(MECHANICAL)**

PROJECT LOCATION:

**10 OREGON AVENUE
BRONXVILLE, NY
10708**

SHEET TITLE:

**MECHANICAL
SPECIFICATIONS**

PROJECT #: 21-0311-00

SCALE: AS NOTED

DATE: 10/20/2020

DRAWN BY: AM

REVIEWED BY: DL/MW

SHEET NO.:

M-106.00

SHEET: 7 OF 7

DOB JOB #

DOB STAMP & SIGNATURE



SPECIFICATIONS:

CONDITIONS:

- 1. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE TOWN OF EASTCHESTER ZONING LAW, THE 2020 BUILDING CODE OF NEW YORK STATE... 2. ALL MANUFACTURED ITEMS SHALL BE INSTALLED OR APPLIED AS DIRECTED BY THE MANUFACTURERS RECOMMENDATIONS. 3. CONTRACTOR TO INCLUDE ALL MATERIALS, LABOR, INCIDENTALS AND SERVICES FOR SATISFACTORYS COMPLETION OF THE WORK. 4. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES BEFORE STARTING THE WORK. 5. CONTRACTOR SHALL PERFORM ALL WORK REQUIRED FOR THE TOTAL COMPLETION OF THE PROJECT, WHETHER OR NOT INDICATED ON THE DRAWINGS. THE INTENTION OF THE DRAWINGS IS FOR A COMPLETE AND PROPER FUNCTIONING OF THE ENTIRE PROJECT.

INSURANCE:

- 1. CONTRACTOR, AND HIS SUBCONTRACTORS, SHALL MAINTAIN WORKMENS COMPENSATION INSURANCE AS WELL AS ADEQUATE LIABILITY INSURANCE DURING THE ENTIRE LENGTH OF THE JOB. 2. OWNER SHALL PROVIDE ADEQUATE PROPERTY INSURANCE ON VALUE OF THE CONSTRUCTION, INCLUDING FIRE & VANDALISM.

PERMITS & SURVEYS:

- 1. CONTRACTOR SHALL FURNISH ALL PERMITS, LICENSES AND APPROVALS NECESSARY TO COMPLETE THE WORK. 2. CONTRACTOR SHALL PROVIDE THE OWNER WITH A CERTIFICATE OF OCCUPANCY AND OR COMPLETION UPON COMPLETION OF WORK.

SITE MAINTENANCE:

- 1. JOB SITE TO BE KEPT CLEAN AT ALL TIMES, TRASH TO BE REMOVED FROM THE SITE WEEKLY OR STORED IN APPROVED DUMPSTER UNTIL FULL THAN THAN CARTED AWAY FROM THE SITE. 2. CARE SHALL BE TAKEN TO PROTECT THE TREES ON THE PROPERTY FROM THE METHODS AND MANNERS OF CONSTRUCTION, TRAFFICKING AND STORAGE OF MATERIALS. RETURN THOSE AREAS DAMAGED BY SUCH TO THEIR ORIGINAL CONDITION.

GENERAL NOTES

- 1. WORK MUST CONFORM TO THE OTHER REQUIREMENTS OF THE 2020 BUILDING CODE OF NEW YORK STATE, AND THE 2020 EXISTING BUILDING CODE OF NYS AND ALL SUPPLEMENTS FIRE DEPARTMENT REGULATIONS AND ALL APPLICABLE LAWS, UTILITY COMPANY REQUIREMENTS AND BEST TRADE PRACTICES. 2. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIREMENTS CERTIFICATES OF INSURANCE WITH DEPARTMENT OF BUILDING. OBTAIN ALL REQUIRED PERMITS FROM ALL APPLICABLE AGENCIES AND PAY ALL FEES REQUIRED BY GOVERNING AGENCIES. 3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PROPER TO COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS TO THE ENGINEER/ARCHITECT. 4. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED BUT NECESSARY FOR PRIOR CONSTRUCTION OF ANY PART OF WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS, AND THE ENGINEER/ARCHITECT AND OWNER SHALL BE NOTIFIED IN THE WRITING PRIOR TO COMMENCING WORK. 5. THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH REQUIREMENTS OF LOCAL AUTHORITIES AND OWNER. 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS WITH IN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL OR REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITIES FOR ANY DAMAGE AND INJURIES CAUSED BY DURING THE EXECUTION OF THE WORK. 7. PLUMBING AND ELECTRICAL WORK IF ANY SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADE, WHO SHALL ARRANGE FOR AND OBTAIN INSPECTIONS AND REQUIRED SIGN OFF. 8. THE CONTRACTOR SHALL DO ALL PATCHING AND CUTTING, REPAIRING AS REQUIRED TO PERFORM ALL OF THE WORK INDICATED ON THE DRAWINGS AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE JOB. 9. ALL PIPING AND WIRING SHALL BE REMOVED TO A POINT OF CONCEALMENT AND SHALL BE PROPERLY CAPPED AND PLUGGED. 10. SHORING OF MEMBERS AND PROTECTIONS OF THE EXISTING STRUCTURE DURING CONSTRUCTION IS THE RESPONSIBILITY OF CONTRACTOR AND SHALL COMPLY WITH ALL REQUIREMENTS OF LOCAL AND STATE CODES. 11. THIS PLAN AND APPLICATION HAS BEEN FILED FOR STATED WORK ONLY. ANY REVISIONS OR CHANGES TO THE SCOPE OF THE WORK SHALL REQUIRE AMENDED PLANS AND/OR A SEPARATE APPLICATION.

- 12. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS, NOTES, AND CONDITIONS AT THE JOB SITE, AND IS TO REPORT ANY DEVIATIONS TO THE ARCHITECT/ENGINEER PRIOR TO THE START OF ANY WORK. 13. PROTECTION OF ADJOINING PROPERTIES SHALL BE MAINTAINED IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES, AND RULES AND

- 14. THE PLANS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS SHALL GOVERN.

- 15. IN CASE OF ANY DISCREPANCIES BETWEEN THE GENERAL NOTES, AND SPECIFIC ITEMS SHOWN ON PLANS, THE PLANS SHALL PREVAIL.

- 16. THE CONTRACTOR SHALL REPAIR ALL PORTIONS OF THE PREMISES THAT ARE DAMAGED DURING THE COURSE OF HIS WORK.

- 17. BEFORE SUBMITTING PROPOSAL, ALL CONTRACTORS SHALL VISIT THE PREMISES, FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK AND DIFFICULTIES THAT ATTEND ITS EXECUTION.

- 18. IF THE CONTRACTOR CLAIMS EXTRA COST UNDER THE CONTRACT HE SHALL GIVE THE OWNER AND THE ARCHITECT WRITTEN NOTICE THEREOF WITHIN A REASONABLE TIME BEFORE PROCEEDING TO EXECUTE THE WORK, ALL CLAIMS FOR EXTRA WORK WILL BE SUBMITTED IN WRITING FOR APPROVAL BY THE OWNER.

- 19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO SCHEDULE ALL NECESSARY INSPECTIONS FROM AGENCIES RESPONSIBLE. GO IS ALSO RESPONSIBLE FOR ALL TRADE PERMITS AND INSPECTION FEES

TENANT SAFETY NOTES

GENERAL:

- 1. ALL WORK TO BE ONE IN ACCORDANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, THE 2020 EXISTING BUILDING CODE OF NYS AND REGULATIONS OF ALL OTHER AGENCIES HAVING JURISDICTION.

STRUCTURAL:

- A. CONTRACTOR TO PROVIDE ADEQUATE TEMPORARY BRACING AND SHORING WHERE EVER ANY STRUCTURAL WORKS IS INVOLVED B. ALL DEMOLITION OPERATIONS, REPAIR OPERATIONS AND ALTERNATIONS OPERATIONS TO BE DONE IN ACCORDANCE WITH NEW YORK STATE BUILDING CODE AND LOCAL LAWS C. IF SITE SAFETY BRIDGING IS NOT REQUIRED BY CODE, AT A MINIMUM, OVERHEAD PROTECTION SHALL BE PROVIDED AT ALL ENTRANCES, WALKWAYS WITHIN 10' OF THE WORK SHALL ALSO BE BRIDGED REGARDLESS OF CODE REQUIREMENTS.

MEANS OF EGRESS:

- 1. ALL EXISTING MEANS OF EGRESS FOR TENANTS OF BUILDING TO BE MAINTAINED CLEAR AND FREE OF ALL OBSTRUCTIONS, SUCH AS BUILDING MATERIALS, TOOLS E.T.C.

FIRE SAFETY:

- A. ALL BUILDING MATERIALS STORED AT CONSTRUCTION AREA AND /OR IN ANY AREA OF THE BUILDING ARE TO BE SECURED IN A LOCKED AREA. ACCESS TO SUCH AREAS TO BE CONTROLLED BY OWNER AND /OR GENERAL CONTRACTOR. B. ALL MATERIALS TO BE STORED IN AN ORDERLY FASHION. C. ALL FLAMMABLE MATERIALS TO BE KEPT TIGHTLY SEALED IN THEIR RESPECTIVE MANUFACTURERS CONTAINERS SUCH MATERIALS ARE TO BE KEPT AWAY FROM HEAT. D. ALL FLAMMABLE MATERIALS TO BE USED AND STORED IN AN ADEQUATE VENTILATED SPACE. E. ALL ELECTRICAL POWER TO BE SHUT OFF WHERE THERE IS EXPOSED CONDUIT. F. ALL ELECTRICAL POWER IN CONSTRUCTION AREA TO BE SHUT OFF AFTER WORKING HOURS. G. CONTRACTOR AT ALL TIMES TO MAKE SURE THERE S NO LEAKAGE OF NATURAL GAS IN THE BUILDING OR ANY FLAMMABLE GAS USED IN CONSTRUCTION.

DUST CONTROL:

- A. DEBRIS, DIRT AND DUST TO BE KEPT TO A MINIMUM AND BE CONFINED TO IMMEDIATE CONSTRUCTION AREA. B. CONTRACTOR TO ISOLATE CONSTRUCTION AREA FROM OCCUPIED BUILDING AREA BY MEANS OF TEMPORARY PARTITIONS OR HEAVY WEIGHT DROP CLOTHS. C. DEBRIS, DIRT AND DUST TO BE CLEANED UP AND CLEARED FROM BUILDING PERIODICALLY BUT NOT LESS THAN FREQUENTLY THAN DAILY TO AVOID ANY EXCESSIVE ACCUMULATIONS.

NOISE AFTER HOURS:

- A. CONSTRUCTION OPERATIONS WILL BE CONFINED TO NORMAL WORKING HOURS 8 A.M. TO 5:00 P.M.. MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS. B. CONTRACTOR TO OBTAIN WRITTEN CONSENT OF ALL PARTIES AFFECTED BY HIS WORKING DURING OTHER THAN NORMAL HOURS, AS DEFINED ABOVE. C. CONTRACTOR SHALL OBTAIN AFTER HOUR WORK PERMIT FROM ALL APPLICABLE AGENCIES IF WORKING AFTER HOURS. D. CONSTRUCTION OPERATIONS WILL NOT INVOLVE INTERRUPTION OF HEATING WATER OR ELECTRICAL SERVICES TO OTHER TENANTS OF THE BUILDING. E. CONSTRUCTION WORK WILL BE CONFINED TO AREA OF WORK AND WILL NOT CREATE DUST, DIRT OR OTHER SUCH INCONVENIENCES TO OTHER APARTMENT UNITS WITHIN THE BUILDING. F. LOCATION WILL BE DETERMINED BY THE EXTENT OF REPAIRS OR CONSTRUCTION.

STRUCTURAL DESIGN CRITERIA SHEET

BUILDING CODE: THE 2020 BUILDING CODE OF NEW YORK STATE.

STRUCTURAL MATERIALS:

REINFORCED CONCRETE (NWT & AIR-ENTRAINED) Fc= 4000 PSI STRUCTURAL STEEL: ASTM A - 992, Fy = 50,000 PSI MISCELLANEOUS STEEL ASTM A - 36, Fy = 36,000 PSI

METAL DECK AND COLD FORMED STEEL: ASTM A 446, Fy = 33,000 PSI CONCRETE MASONRY: Fm = 1950 PSI

DEAD LOADS

Table with 2 columns: Material/Type and Load (PCF/PSF). Rows include Reinforced Concrete, Structural Steel, Concrete Masonry, Partition Load, Ceiling Load, Mechanical Duct, Roofing.

SNOW LOAD:

PG = 45 PSF PF = 28 PSF, SAY 30 PSF

LIVE LOAD:

Table with 2 columns: Area/Type and Load (PSF). Rows include Roof, Second Floor to Fourth Floor (Residential, Public Areas), First Floor (Residential, Public Areas), All Residential Areas, All Public Spaces, All Parking Areas, All Office Area.

WIND LOAD: 120 MPH AT 33 FEET ABOVE GROUND

Table with 2 columns: Zone and Wind Speed (PSF). Rows include Zone A (19.2 PSF), Zone B (10.0 PSF), Zone C (12.7 PSF), Zone D (5.9 PSF).

SEISMIC LOAD:

SEISMIC USE GROUP: I SEISMIC DESIGN CATEGORY: C

FOUNDATION BEARING CAPACITY: 2 TONS PER SQUARE FOOT

SAFEGUARDS DURING CONSTRUCTION:

PROJECT SHALL COMPLY WITH CHAPTER 33 SAFEGUARDS DURING CONSTRUCTION OF THE 2020 BUILDING CODE OF NEW YORK STATE. 3301.2 STORAGE AND PLACEMENT. CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED AND PLACED SO AS NOT TO ENDANGER THE PUBLIC, THE WORKERS ADJOINING PROPERTY FOR THE DURATION OF THE CONSTRUCTION PROJECT.

3302.1 ALTERATIONS, REPAIRS AND ADDITIONS. REQUIRED EXITS, EXISTING STRUCTURAL ELEMENTS, FIRE PROTECTION DEVICES AND SANITARY SAFEGUARDS SHALL BE MAINTAINED AT ALL TIMES DURING REMODELING, ALTERATIONS, REPAIRS OR ADDITIONS TO ANY BUILDING OR STRUCTURE.

EXCEPTIONS:

- 1. WHEN SUCH REQUIRED ELEMENTS OR DEVICES ARE BEING REMODELED, ALTERED OR REPAIRED, ADEQUATE SUBSTITUTE PROVISIONS SHALL BE MADE. 2. MAINTENANCE OF SUCH ELEMENTS AND DEVICES IS NOT REQUIRED WHEN THE EXISTING BUILDING IS NOT OCCUPIED.

3302.2 MANNER OF REMOVAL. WASTE MATERIALS SHALL BE REMOVED IN A MANNER WHICH PREVENTS INJURY OR DAMAGE TO PERSONS, ADJOINING PROPERTIES AND PUBLIC RIGHTS-OF-WAY.

UTILITY NOTES

- 1. EXISTING WATER, ELECTRICAL, GAS, SANITARY SEWER, STEAM PIPES, TELEPHONE AND COMPUTER LINES SHALL BE PROTECTED AND/OR RELOCATED TO ACCOMODATE THE NEW LAYOUT. 2. ANY CHANGES OR ADDITIONS TO GAS, ELECTRICAL, OR OTHER UTILITIES ARE TO BE COORDINATED BY THE GENERAL CONTRACTOR WITH A REPRESENTATIVE OF THAT UTILITY COMPANY.

VISUAL CONSTRUCTION INSPECTIONS FOR DOB

- SOIL INSPECTION FOR RAMP
• FOOTING INSPECTION FOR RAMP
• FRAMING INSPECTION
• FIRE STOPPING INSPECTION
• INSULATION INSPECTION
• PLUMBING INSPECTION (ROUGH AND FINAL)
• ELECTRICAL INSPECTION (ROUGH AND FINAL)
• MECHANICAL INSPECTION
• FINAL CONSTRUCTION INSPECTION

3306.1 PROTECTION REQUIRED. PEDESTRIANS SHALL BE PROTECTED DURING CONSTRUCTION, REMODELING AND DEMOLITION ACTIVITIES AS REQUIRED BY THIS CHAPTER AND TABLE 3306.1. SIGNS SHALL BE PROVIDED TO DIRECT PEDESTRIAN TRAFFIC.

PERMITS REQUIRED FROM DEPT. OF BUILDINGS

- BUILDING PERMIT
• PLUMBING PERMIT
• ELECTRICAL PERMIT
• CERTIFICATE OF COMPLIANCE AT COMPLETION OF PROJECT

ELECTRICAL LIGHTING AND POWER TO BE PROVIDED BY LICENSED ELECTRICIAN AND COORDINATED WITH THE FIRE DEPARTMENT

2020 ENERGY CONSERVATION CODE OF NEW YORK STATE & UNIFORM CODE SUPPLEMENTS CHAPTER 1. GENERAL REQUIREMENTS

SECTION 10. SCOPE AND GENERAL REQUIREMENTS R101.1 Title: This code shall be known as the Energy Conservation Construction Code of New York State, and shall be cited as such. It is referred to herein as "this code."

R501.2 Existing buildings. Except as specified in this chapter, this code shall not be used to require the removal, alteration or abandonment of, nor prevent the continued use and maintenance of, an existing building or building system lawfully in existence at the time of adoption of this code.

R501.4 Compliance: Alterations, Repairs, Additions and changes of occupancy to, or relocation of, existing buildings and structures shall comply with the provisions for alterations, repairs, additions, and changes of occupancy or relocation, respectively in the International Residential Code, International Code, International Fire Code, International Fuel Gas Code, International Mechanical Code, International Plumbing Code, International Property Maintenance Code, International Private Sewage Disposal Code and NFPA 70.

R502.1 General: (Additions) Additions to an existing building, building system or portion thereof shall conform to this Code as those provisions relate to new construction without requiring the unaltered portion of the existing building or building system to comply with this code.

R503.1 General: Alterations to any building or structure shall comply with the requirements of the code for new construction. Alterations shall be such that the existing building or structure is no less conforming to the provisions of this code than the existing building or structure was prior to the alteration.

Exception: The following alterations need not comply with the requirements for new construction provided the energy use of the building is not increased:

- 1. Storm windows installed over existing fenestration
2. Existing ceiling, wall or floor cavities exposed during construction provided that these cavities are filled with insulation
3. Construction where the existing roof, wall or floor cavity is not exposed.
4. Roof recover
5. Roofs without insulation in the cavity and where the sheathing or insulation is exposed during re-roofing shall be insulated either above or below the ceiling.
6. Surface-applied window film installed on existing single pane fenestration assemblies to reduce solar heat gain provided the code does not require the glazing or fenestration assembly to be replaced.

305.7 Alterations Affecting an Area Containing a Primary Function

Where an alteration affects the accessibility to, or contains an area of primary function, the route to the primary function area shall be accessible. The accessible route to the primary function area shall include toilet facilities and drinking fountains serving the area of primary function.

Exceptions:

- 1. The costs of providing the accessible route are not required to exceed 20 percent of the costs of the alterations affecting the area of primary function. This provision does not apply to alterations limited solely to windows, hardware, operating controls, electrical outlets and signs.
2. This provision does not apply to alterations limited solely to mechanical systems, electrical systems, installation or alteration of fire protection systems and abatement of hazardous materials.
3. This provision does not apply to alterations undertaken for the primary purpose of increasing the accessibility of a facility.
4. This provision does not apply to altered areas limited to Type B dwelling and sleeping units.

WORKSHEET

ADA PATH OF TRAVEL IMPROVEMENTS, 20% DISPROPORTIONATE COSTS

SCOPE OF WORK: REPLACE THE EXISTING STRUCTURAL APPARATUS FLOOR AND EXTERIOR IMPROVEMENTS

REPLACEMENT OF APPARATUS STRUCTURE FLOOR SYSTEM BUDGET:

TOTAL: 561,500 BUDGET FOR IMPROVEMENTS

20% OF 561,500 = \$112,300, MAX FOR ADA IMPROVMENTS AS PER CODE

LIST OF ADA IMPROVEMENTS FOR EXISTING BUILDING:

- INTERIOR ACCESSIBLE PORTABLE RAMP: \$10,000
• EXTERIOR ACCESSIBLE PERMANENT RAMP TO ENTRANCE OF BUILDING AND WALKWAY: \$30,000
• EXISTING INTERIOR BATH ROOM CONVERSION TO COMPLIANT BATH ROOMS: \$75,000

TOTAL OF COSTS PROPOSED: \$115,000.00

NYS SPECIAL INSPECTIONS

SPECIAL INSPECTIONS AND PROGRESS INSPECTIONS IN ACCORDANCE WITH SECTION IBC 1701 AND THE APPLICABLE SECTIONS OF THE BUILDING CODE ARE LISTED IN THE FOLLOWING TABLES:

THE CONTRACTOR MUST NOTIFY THE ARCHITECT OR ENGINEER FOR SPECIAL INSPECTIONS AND PROGRESS INSPECTIONS AT LEAST 72 HOURS BEFORE THE SPECIFIC WORK COMMENCES.

THE "AUTHORITY" SHALL BE RESPONSIBLE FOR THE FOLLOWING SPECIAL INSPECTIONS AND PROGRESS INSPECTIONS

REQUIRED INSPECTIONS AND TESTS OF MATERIALS DESIGNATED FOR "SPECIAL INSPECTIONS AND PROGRESS INSPECTIONS" BY THE CONTRACTOR SHALL BE MADE UNDER THE DIRECT SUPERVISION OF A LICENSED ARCHITECT OR ENGINEER RETAINED BY OR ON THE BEHALF OF THE CONTRACTOR WHO SHALL BE ACCEPTABLE TO THE ARCHITECT OR ENGINEER WHO SUPERVISED THE PREPARATION OF THE PLANS.

1703.2 WRITTEN APPROVAL: ANY MATERIAL, APPLIANCE, EQUIPMENT, SYSTEM OR METHOD OF CONSTRUCTION REQUIRING THE REQUIREMENTS OF THIS CODE SHALL BE APPROVED IN WRITING AFTER SATISFACTORY COMPLETION OF THE REQUIRED TESTS AND SUBMISSION OF REQUIRED TEST REPORTS.

1704.2.4 REPORT REQUIREMENT. APPROVED AGENCIES SHALL KEEP RECORDS OF SPECIAL INSPECTIONS AND TESTS. THE APPROVED AGENCY SHALL SUBMIT REPORTS OF SPECIAL INSPECTIONS AND TESTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

1704.3.1 CONTENT OF STATEMENT OF SPECIAL INSPECTIONS.

- 1. THE MATERIALS, SYSTEMS, COMPONENTS AND WORK REQUIRED TO HAVE SPECIAL INSPECTIONS OR TESTS BY THE BUILDING OFFICIAL OR BY THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR EACH PORTION OF THE WORK
2. THE TYPE AND EXTENT OF EACH SPECIAL INSPECTION
3. THE TYPE OF EXTENT OF EACH TEST
4. ADDITIONAL REQUIREMENTS FOR SPECIAL INSPECTIONS OR TESTS FOR SEISMIC OR WIND RESISTANCE AS SPECIFIED IN SECTIONS 1705.11, 1705.12 AND 1705.13
5. FOR EACH TYPE OF SPECIAL INSPECTION, IDENTIFICATION AS TO WHETHER IT WILL BE CONTINUOUS SPECIAL INSPECTION, PERIODIC SPECIAL INSPECTION OR PERFORMED IN ACCORDANCE WITH THE NOTATION USED IN THE REFERENCED STANDARD WHERE THE INSPECTIONS ARE DEFINED.

Table with 8 columns: ITEM, SECTION, SPECIAL INSPECTION ITEMS, TYPE, CONTINUOUS/PERIODIC, REGULATIONS, REQUIRED. Rows include structural observations (seismic, wind), structural steel, cold-formed steel deck, concrete construction, welding of re-bars, soils, fire-resistant materials, fire-resistant penetrations.

AN INDEPENDENT THIRD PARTY SPECIAL INSPECTION COMPANY REQUIRED TO BE RETAINED BY GENERAL CONTRACTOR. REPORTS OF INSPECTION TO BE FURNISHED TIMELY TO ENGINEER AND COPIES ARE TO BE PROVIDED TO DEPARTMENT OF BUILDINGS

BUILDING CODE SCHEDULE:

THE 2020 BUILDING CODE OF NEW YORK STATE, THE 2020 EXISTING BUILDING CODE OF NYS FOR EXISTING BUILDING LOCATED AT: CHESTER HEIGHTS FIRE STATION EASTCHESTER, NEW YORK

PROPERTY DATA: LOT SIZE: 7,541 S.F. (0.17 ACRES)

SCOPE OF WORK: TO REMOVE THE EXISTING APPARATUS FIRST FLOOR SLAB AND STRUCTURAL SUPPORTS AND REPLACE WITH NEW STRUCTURE AND FLOOR SYSTEM AT SAME LOCATION

BUILDING STRUCTURE TYPE: CELLAR AND FIRST FLOOR: STEEL, CONCRETE SECOND FLOOR WOOD FRAME

BUILDING CODE SUMMARY

THE 2020 BUILDING CODE OF NEW YORK STATE, THE 2020 EXISTING BUILDING CODE OF NYS AND ALL UNIFORM CODE SUPPLEMENTS

NYS INTERNATIONAL EXISTING BUILDING CODE 2021

ALTERATION-LEVEL 1

ALTERATIONS INCLUDE THE REMOVAL AND REPLACEMENT OR THE COVERING OF EXISTING MATERIAL, ELEMENTS, EQUIPMENT, OR FIXTURES USING NEW MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES THAT SERVE THE SAME PURPOSE. PROPOSED: TO REMOVE AND REPLACE INTERIOR FLOOR SYSTEM

THE 2020 BUILDING CODE OF NEW YORK STATE

CHAPTER 3

USE AND OCCUPANCY CLASSIFICATION

303.1 GROUP S-1 EXISTING STORAGE OF VEHICLES GROUP B-2 EXISTING OPERATIONAL AND ADMINISTRATIVE AREAS GROUP R-2 EXISTING SLEEPING FACILITIES (DORM ROOMS)

PROPOSED: REPLACEMENT OF APPARATUS STORAGE AREA

- 311.2 MODERATE-HAZARD STORAGE, GROUP S-1

CHAPTER 6 TYPES OF CONSTRUCTION

601 TABLE: FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

PROPOSED TYPE TYPE I B

- REGULATION: PRIMARY STRUCTURE 2 HR
• REGULATION: BEARING WALLS EXTERIOR: 2 HR; INTERIOR: 2 HR.
• NONBEARING WALLS AND PARTITIONS EXTERIOR: 0 HR. (SEE TABLE 602) 0HR.
• NONBEARING WALLS AND PARTITIONS INTERIOR: 0 HR.
• FLOOR CONSTRUCTION: 2 HR.
• ROOF CONSTRUCTION: 1 HR.
• PROPOSED BUILDING: AS REQUIRED

CHAPTER 9 FIRE PROTECTION SYSTEMS

903.2.9 GROUP S-1

- FIRE AREA USED FOR THE STORAGE OF COMMERCIAL MOTOR VEHICLES WHERE THE FIRE AREA EXCEEDS 5,000 S.F.
• PROPOSED REPAIR OF STRUCTURAL APPARATUS FLOOR AREA: 2327 S.F.
• AUTOMATIC SPRINKLER SYSTEM IS NOT REQUIRED

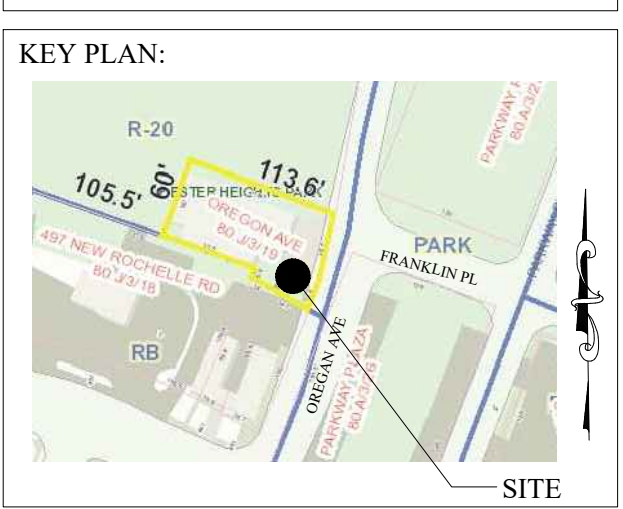
CHAPTER 10 MEANS OF EGRESS NO CHANGE



UES NOTE: PLANS ARE NOT TO BE SCALED. CONTRACTOR IS TO MAKE NO ASSUMPTIONS WITH REGARD TO THESE DRAWINGS. ANY ADDITIONAL INFORMATION OR DIMENSIONS REQUIRED TO PROPERLY ESTIMATE OR ERECT THIS PROJECT WILL BE SUPPLIED BY THE ENGINEER UPON REQUEST. CONTRACTOR SHALL VERIFY IN THE FIELD ALL DIMENSIONS AND CONDITIONS INDICATED ON THIS DRAWING AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND FIELD CONDITIONS SHOULD BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THESE DRAWINGS SHALL NOT BE ALTERED WITHOUT THE CONSENT AND KNOWLEDGE OF THE ENGINEER. ALL REPRODUCTION RIGHTS RESERVED. REPRODUCTION WITHOUT PERMISSION IS PROHIBITED.

Table with 4 columns: NO., CLIENT REVIEW, ISSUED FOR, DATE. Rows include Bid Review ADA Improvements (10/19/21), BLDG. DEPT. REVIEW (05/03/21), BLDG. DEPT. REVIEW (06/02/20), BID DOCUMENTS (05/08/20), BID DOCUMENT REVIEW (03/30/20), CLIENT REVIEW (12/20/19).

Table with 4 columns: NO., CLIENT REVIEW, ISSUED FOR, DATE. Row: BID REVIEW ADA IMPROVEMENTS 10/19/21.



SCOPE OF WORK: RESTROOM ADA IMPROVEMENTS AND MECHANICAL SYSTEMS

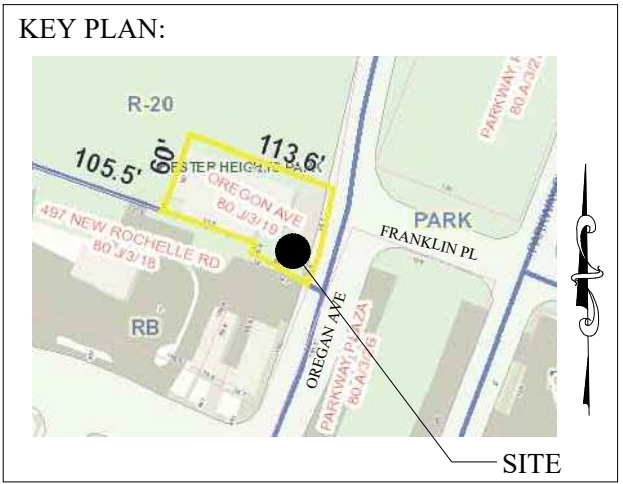
PROJECT LOCATION: CHESTER HEIGHTS EASTCHESTER FIRE STATION EASTCHESTER, N.Y. SECTION: 80.J BLOCK: 03 LOT: 19 ZONE: R-20 SHEET TITLE: GENERAL NOTES AND SPECIFICATIONS

PROJECT #: 18-040418 SCALE: AS NOTED DATE: 10/19/21 DRAWN BY: JOSEPH PATERNO, LEED AP REVIEWED BY: MICHAEL GIANATASIO, P.E. SEAL: SHEET NO.: S-001 SHEET: 1 OF 10

UES NOTE:
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NO.	ISSUED FOR	DATE
6	BID REVIEW ADA IMPROVEMENTS	10/19/21
5	BLDG. DEPT. REVIEW	05/03/21
4	BLDG. DEPT. REVIEW	06/02/20
3	BID DOCUMENTS	05/08/20
2	BID DOCUMENT REVIEW	03/30/20
1	CLIENT REVIEW	12/20/19

REVISIONS



SCOPE OF WORK:

RESTROOM ADA IMPROVEMENTS AND MECHANICAL SYSTEMS

PROJECT LOCATION:
 CHESTER HEIGHTS
 EASTCHESTER FIRE STATION
 EASTCHESTER, N.Y.
 SECTION: 80.J
 BLOCK: 03
 LOT: 19
 ZONE: R-20

SHEET TITLE:

FIRST FLOOR RESTROOM REFLECTED CEILING PLAN

PROJECT #: 18-040418

SCALE: AS NOTED

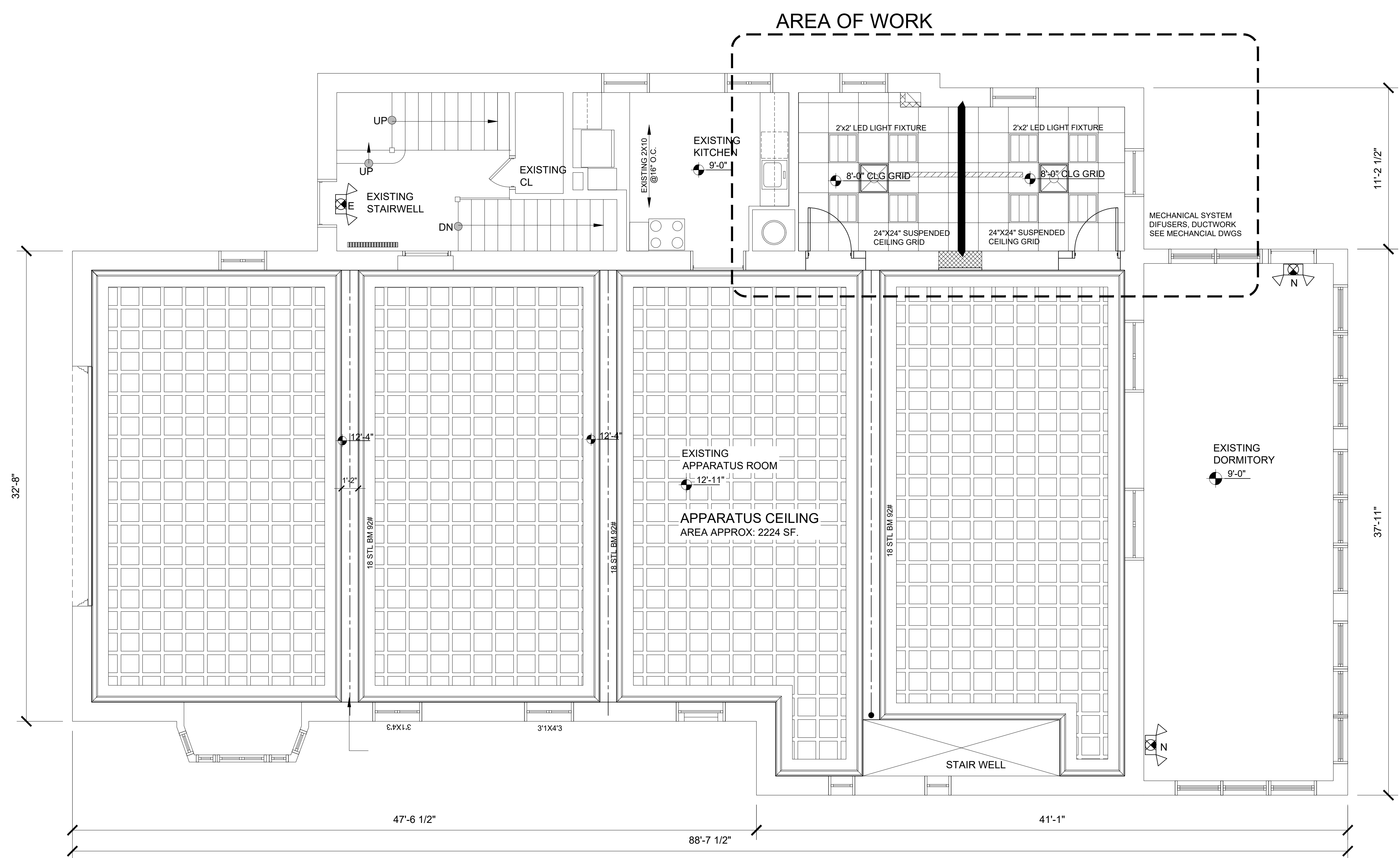
DATE: 10/19/21

DRAWN BY: JOSEPH PATERNO, LEED AP

REVIEWED BY: MICHAEL GIANATASIO, P.E.

SEAL: SHEET NO.:

S-105

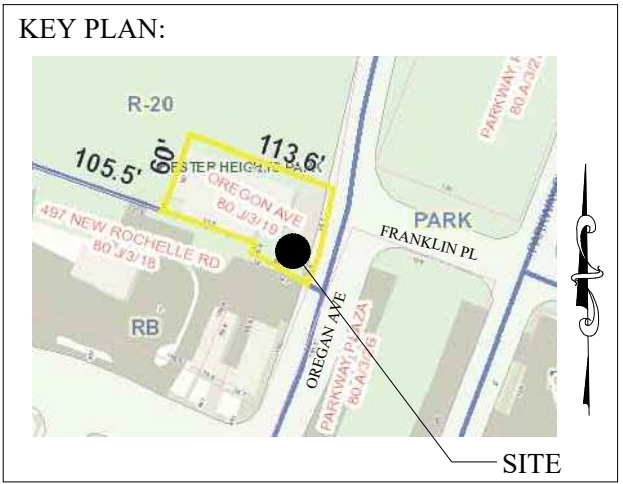


A FIRST FLOOR REFLECTING CEILING PLAN
 SCALE: 1/4" = 1'-0"

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2	BID DOCUMENT REVIEW	03/30/20
1	CLIENT REVIEW	12/20/19

REVISIONS



SCOPE OF WORK:

RESTROOM ADA IMPROVEMENTS AND MECHANICAL SYSTEMS

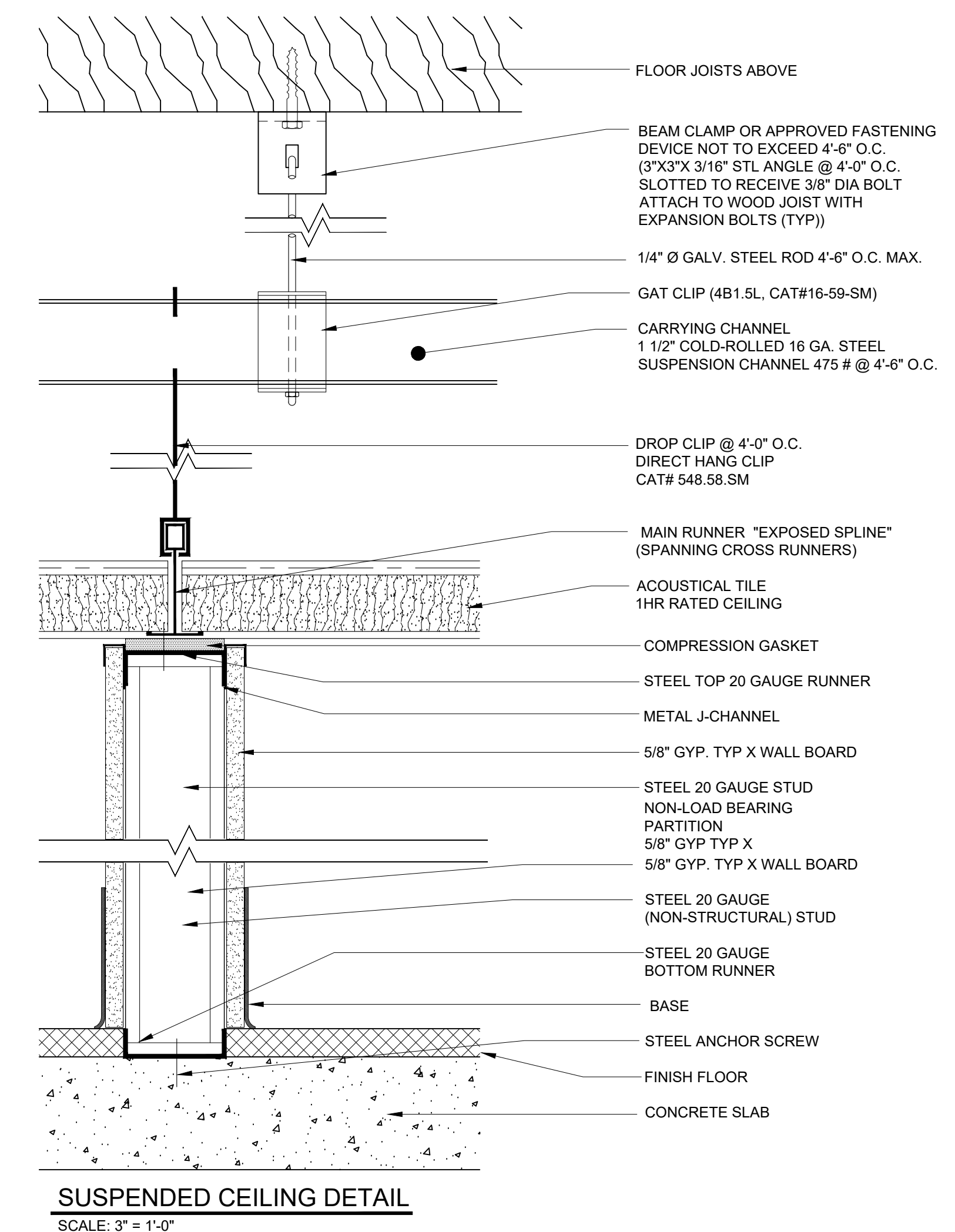
PROJECT LOCATION:
CHESTER HEIGHTS
EASTCHESTER FIRE STATION
EASTCHESTER, N.Y.
SECTION: 80.J
BLOCK: 03
LOT: 19
ZONE: R-20

SHEET TITLE:

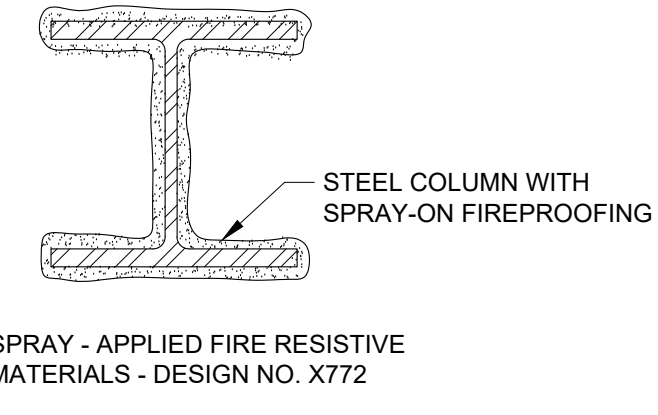
DETAILS

PROJECT #: 18-040418
SCALE: AS NOTED
DATE: 10/19/21
DRAWN BY: JOSEPH PATERNO, LEED AP
REVIEWED BY: MICHAEL GIANATASIO, P.E.

SEAL: SHEET NO.: S-301

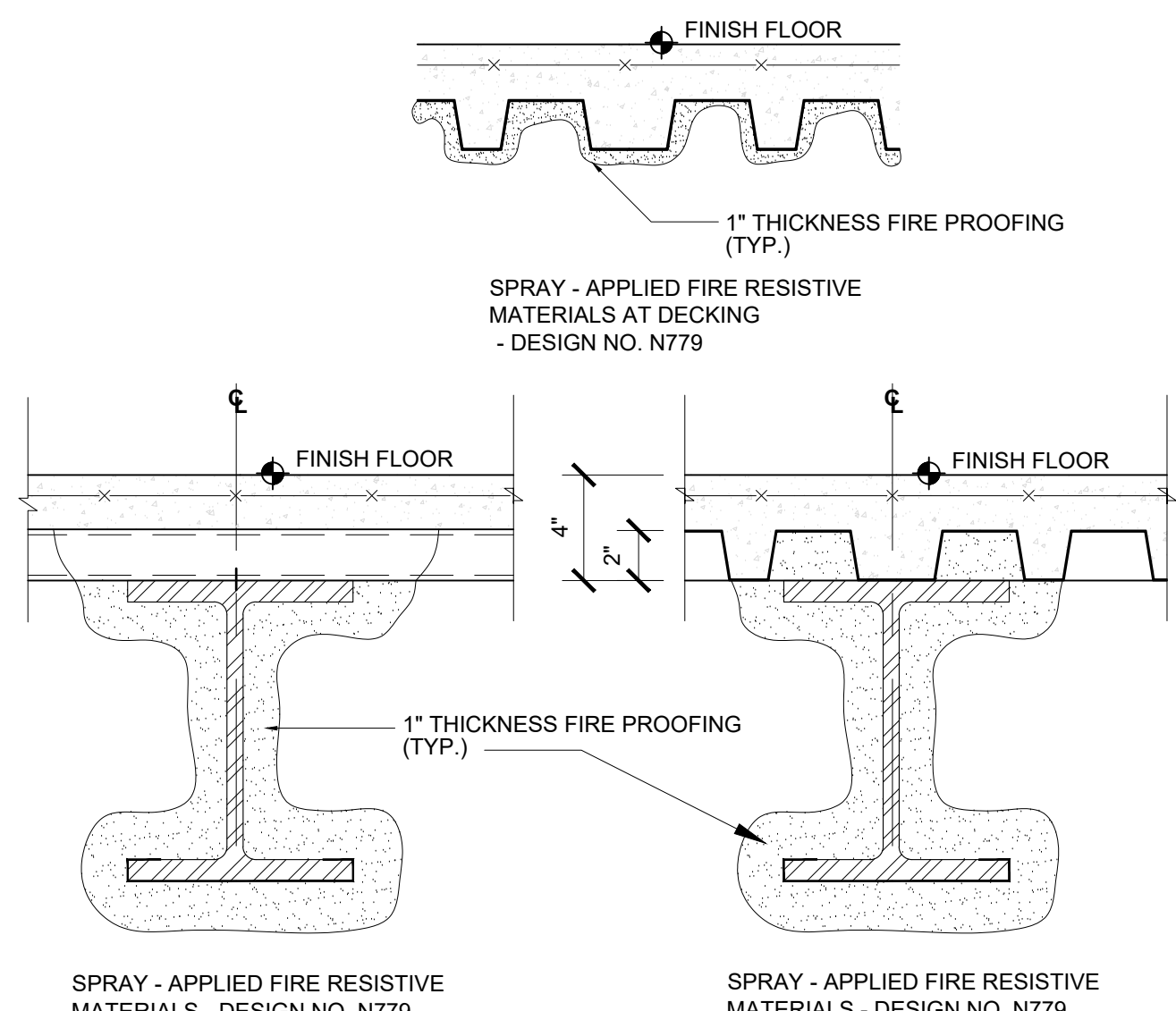


SUSPENDED CEILING DETAIL
SCALE: 3" = 1'-0"



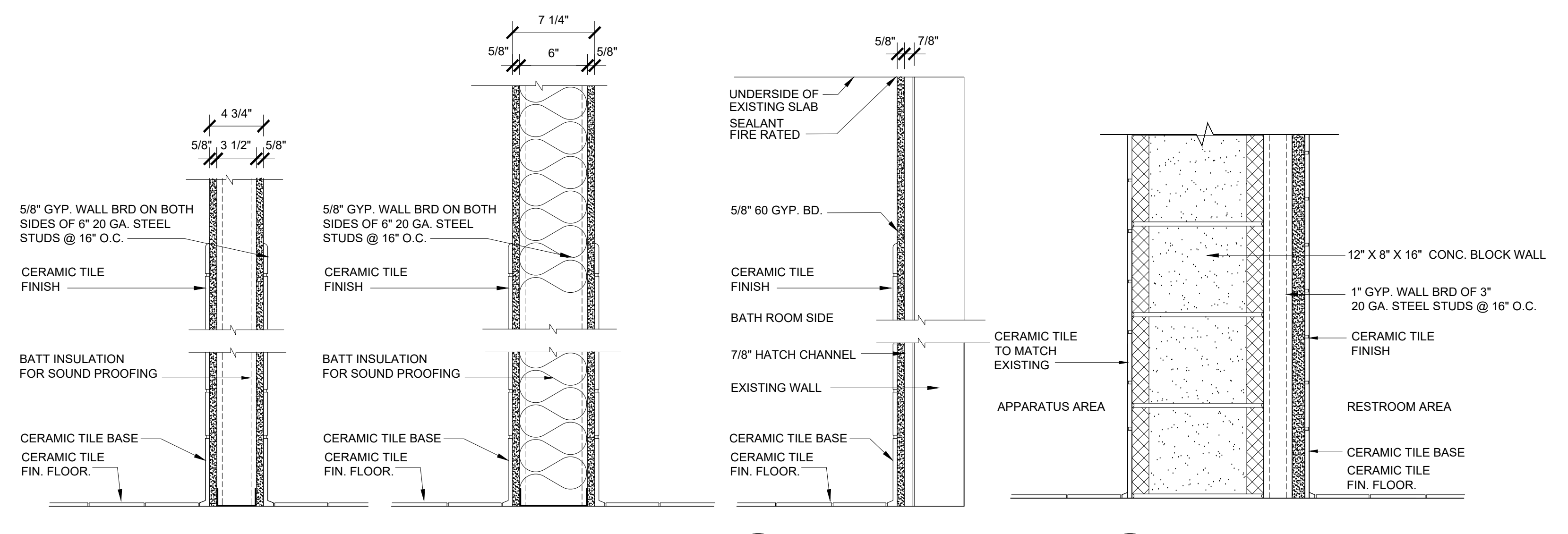
STEEL COLUMN WITH SPRAY-ON FIREPROOFING
SPRAY - APPLIED FIRE RESISTIVE MATERIALS - DESIGN NO. X772

7 2 HR. SPRAY-APPLIED FIRE PROOFING(TYP)
SCALE: 1 1/2" = 1'-0"



SPRAY - APPLIED FIRE RESISTIVE MATERIALS - DESIGN NO. N779

6 2 HR. SPRAY-APPLIED FIRE PROOFING(TYP)
SCALE: 1 1/2" = 1'-0"

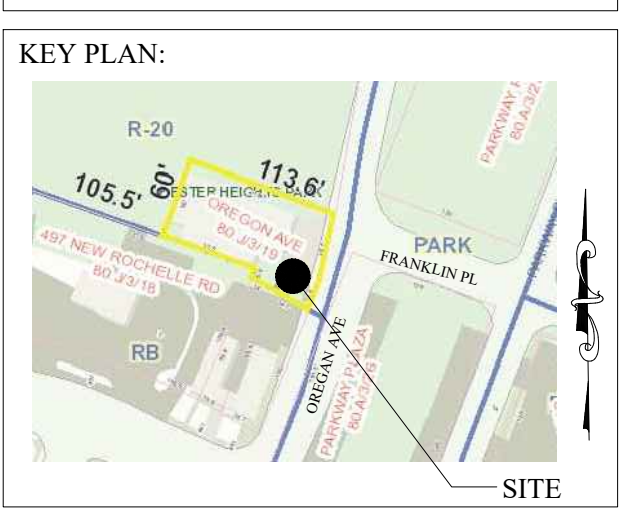


1 INTERIOR PARTITION SCALE: 1 1/2" = 1'-0"
2 INTERIOR PARTITION SCALE: 1 1/2" = 1'-0"
3 INTERIOR PARTITION SCALE: 1 1/2" = 1'-0"
4 INTERIOR PARTITION SCALE: 1 1/2" = 1'-0"

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2	BID DOCUMENT REVIEW	03/30/20
1	CLIENT REVIEW	12/20/19

REVISIONS		
NO.	ISSUED FOR	DATE
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4	BLDG. DEPT. REVIEW	06/02/20
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2	BID DOCUMENT REVIEW	03/30/20
1	CLIENT REVIEW	12/20/19



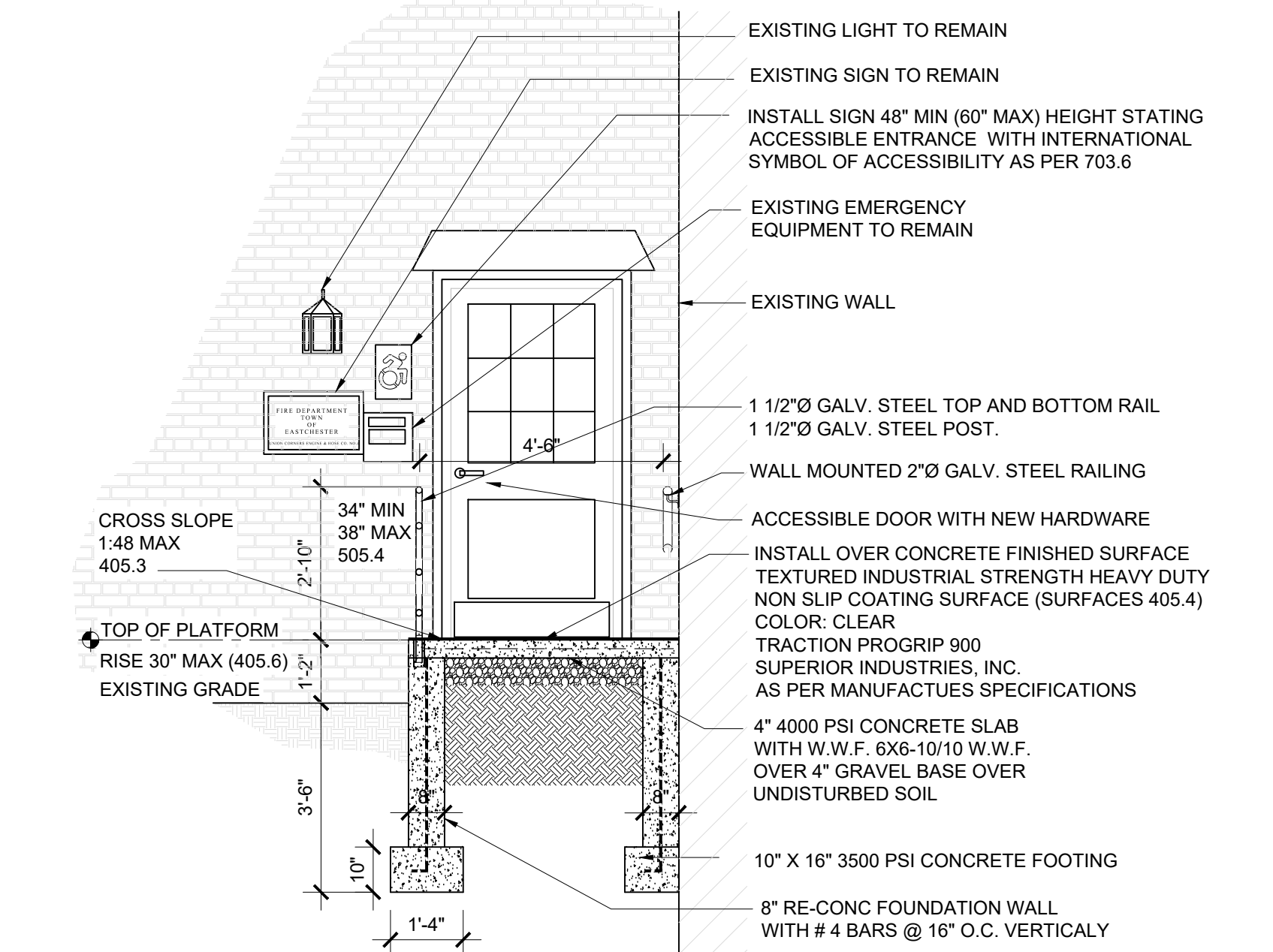
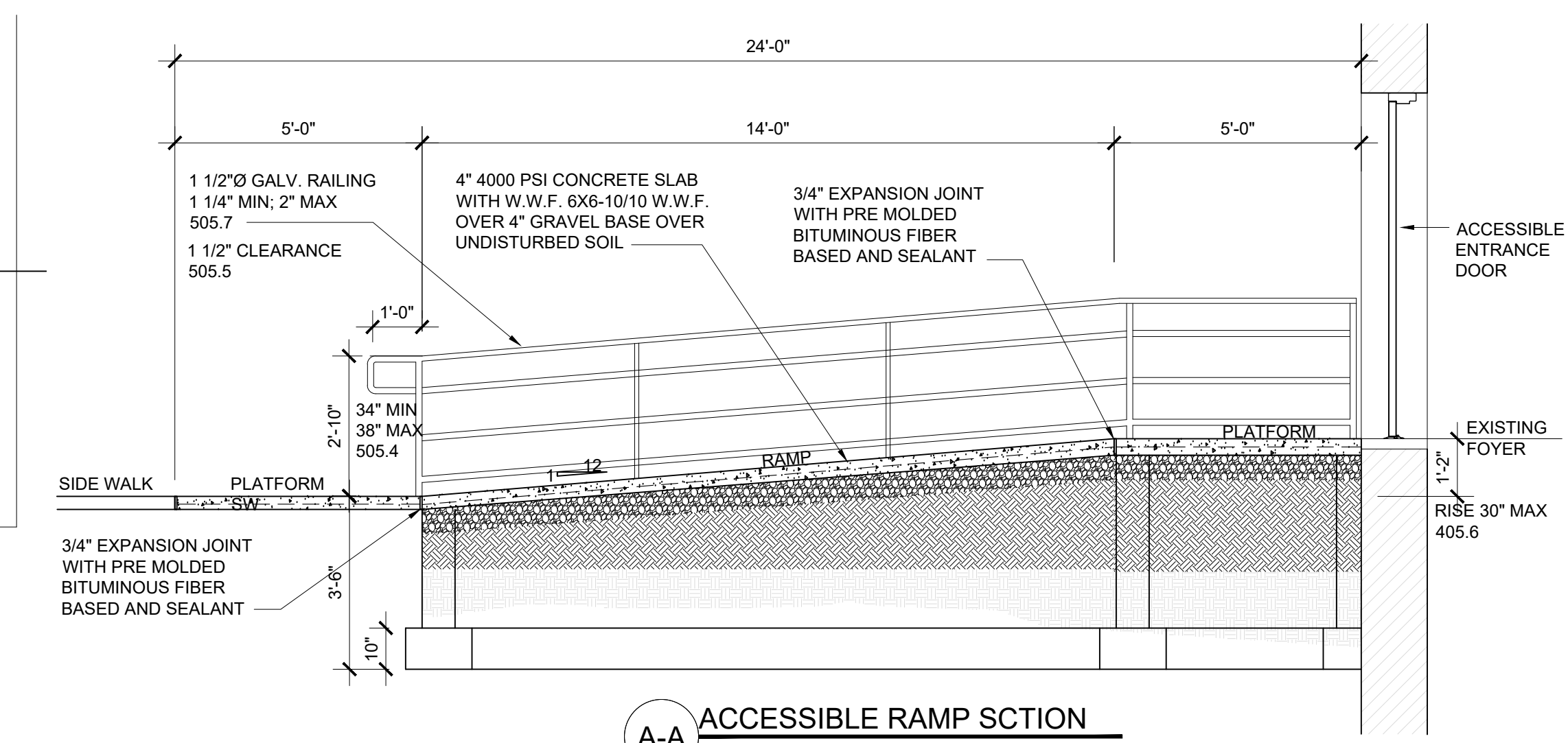
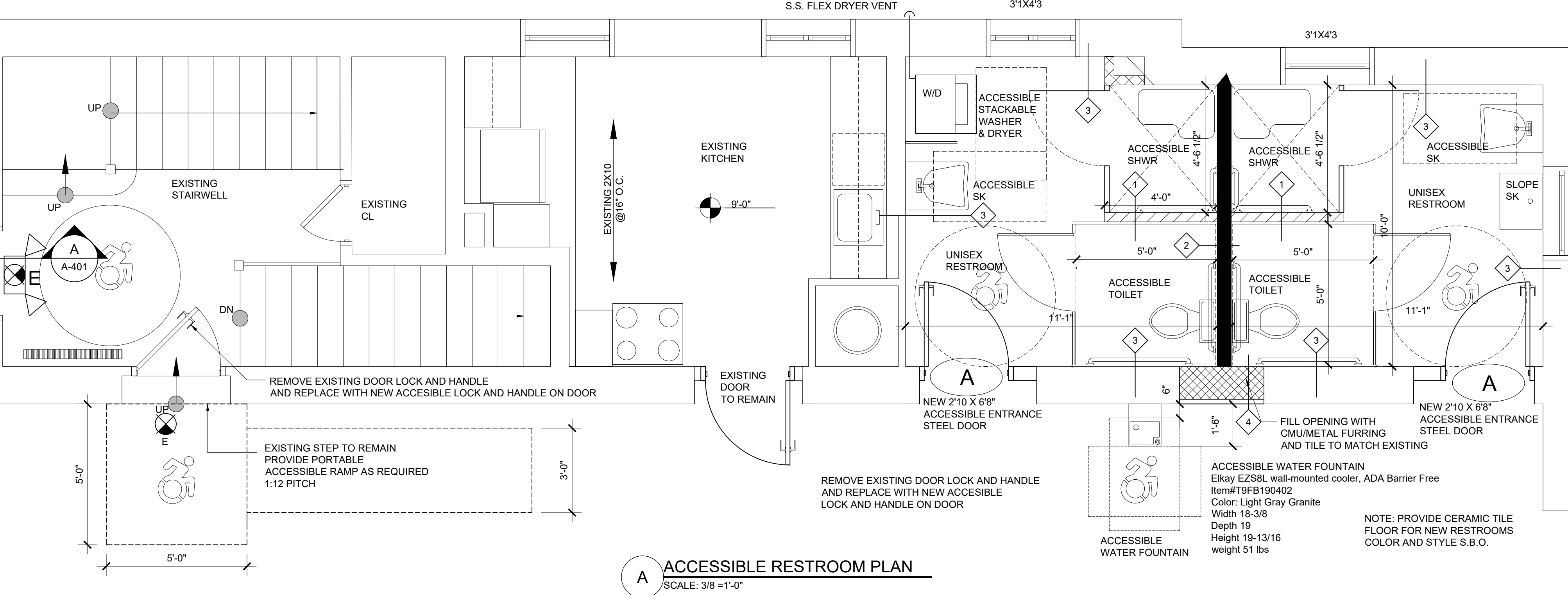
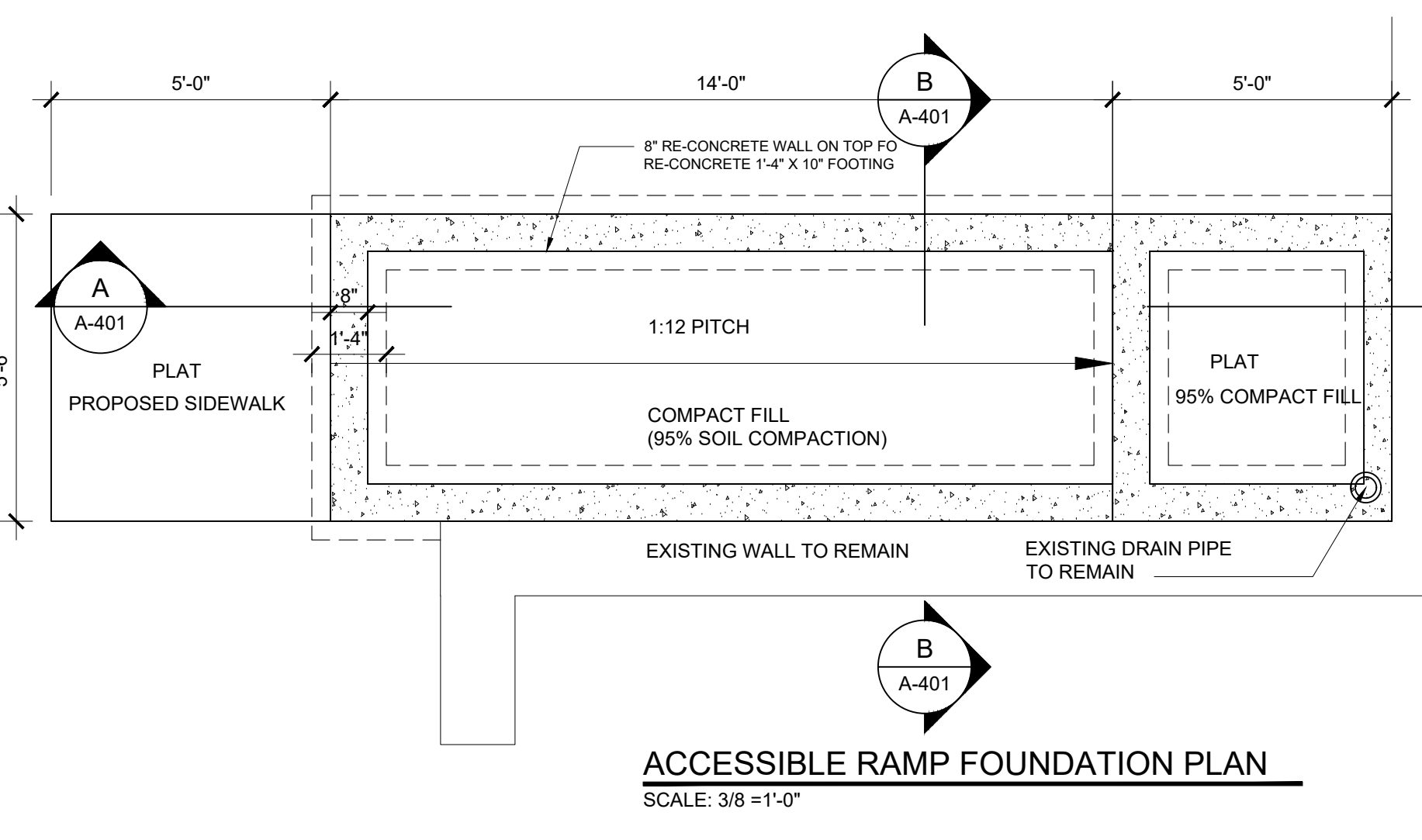
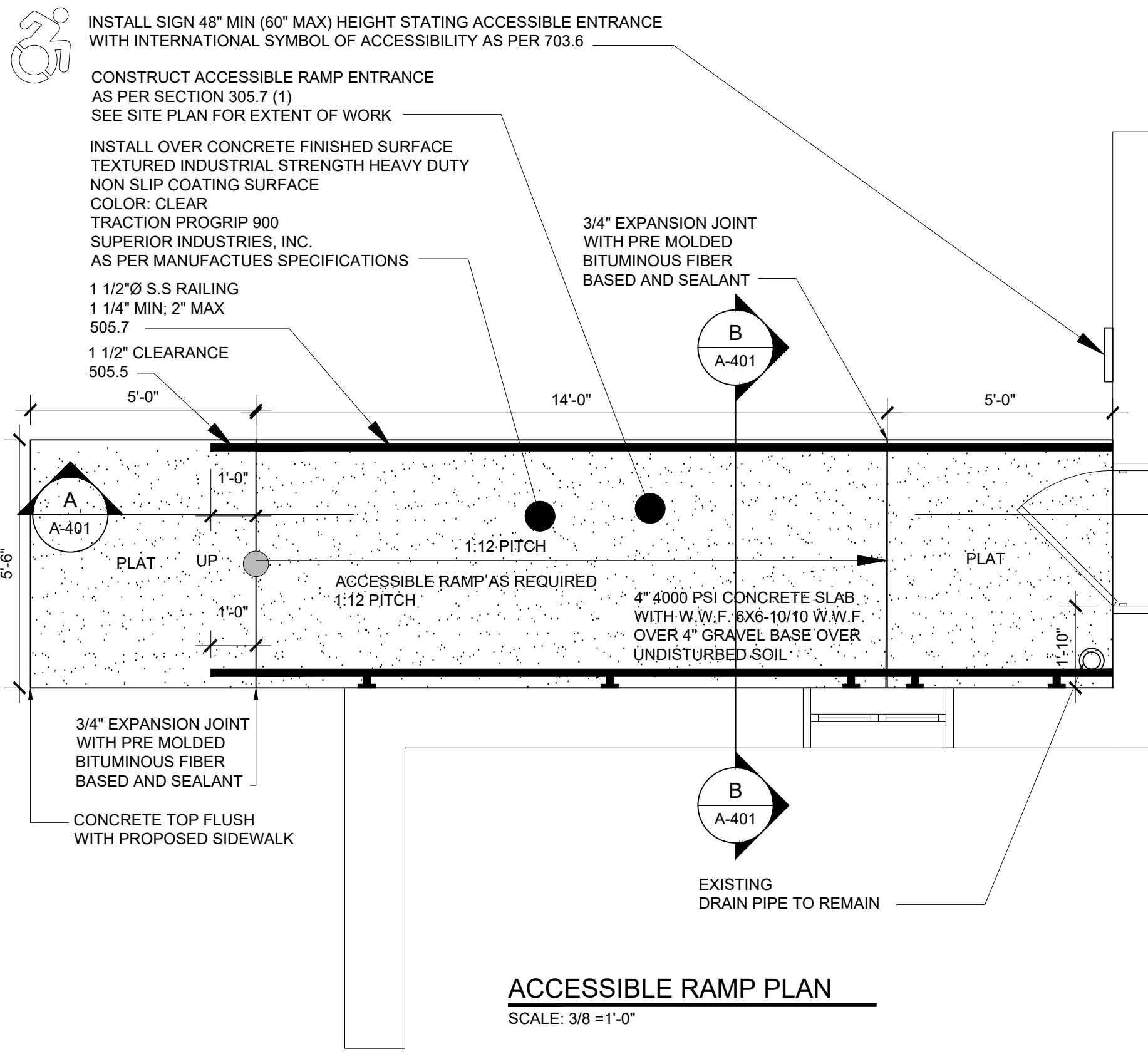
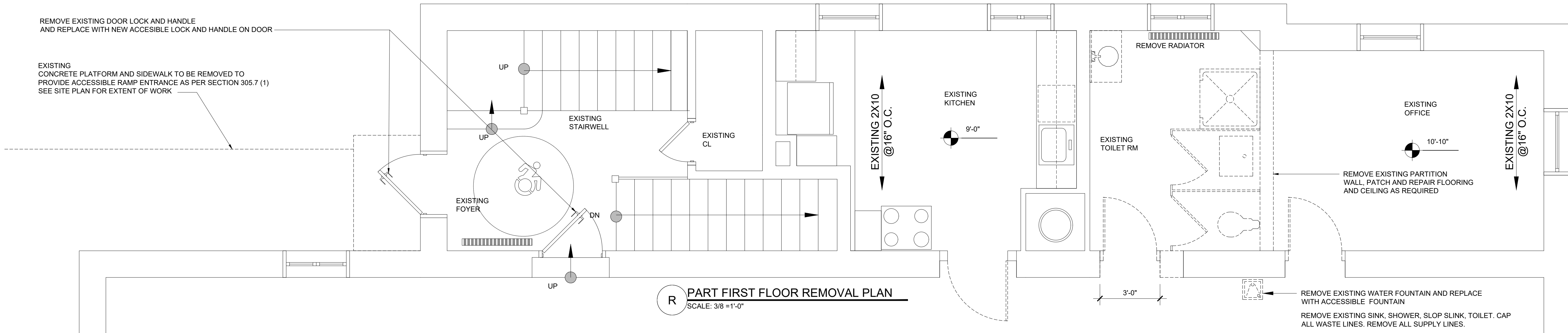
SCOPE OF WORK:
RESTROOM ADA IMPROVEMENTS AND MECHANICAL SYSTEMS

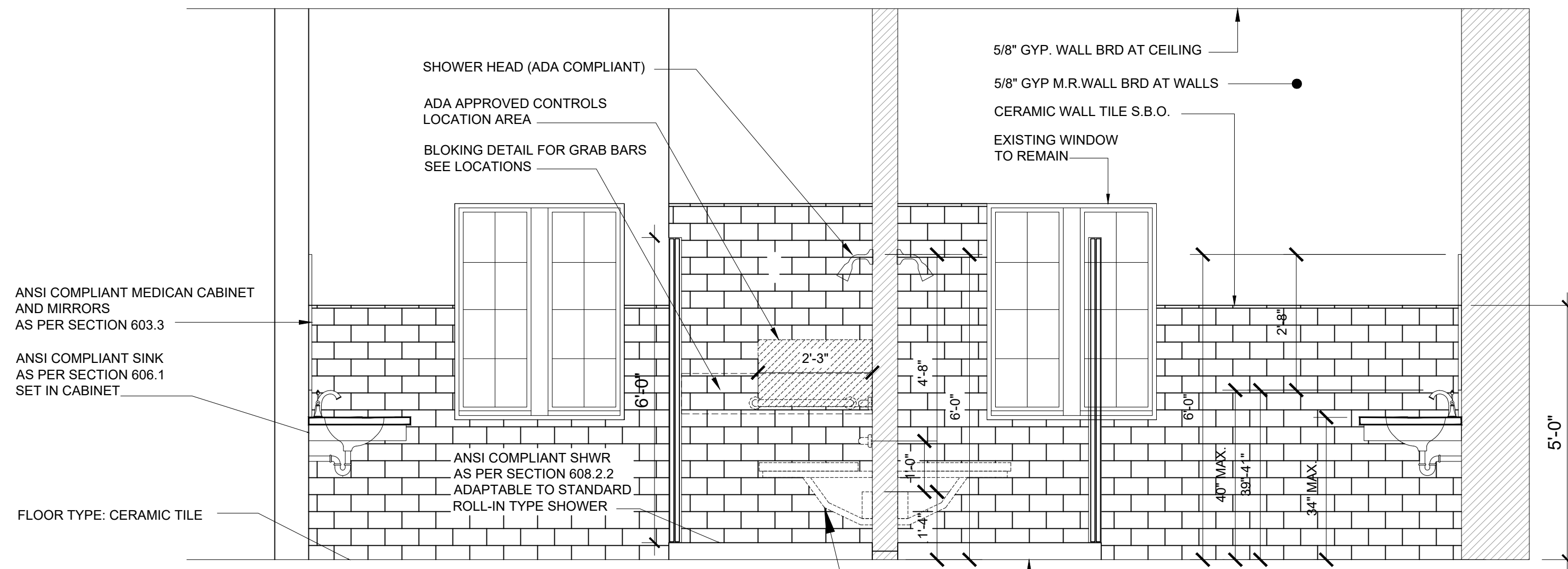
PROJECT LOCATION:
CHESTER HEIGHTS EASTCHESTER FIRE STATION EASTCHESTER, N.Y.
 SECTION: 80.J
 BLOCK: 03
 LOT: 19
 ZONE: R-20

SHEET TITLE:
ENLARGED PART FLOOR PLANS ENLARGED ACCESSIBLE RAMP PLAN, SECTIONS AND ELEVATIONS

PROJECT #: 18-040418
 SCALE: AS NOTED
 DATE: 10/19/21
 DRAWN BY: JOSEPH PATERNO, LEED AP
 REVIEWED BY: MICHAEL GIANATASIO, P.E.

SEAL: SHEET NO.: **S-401**

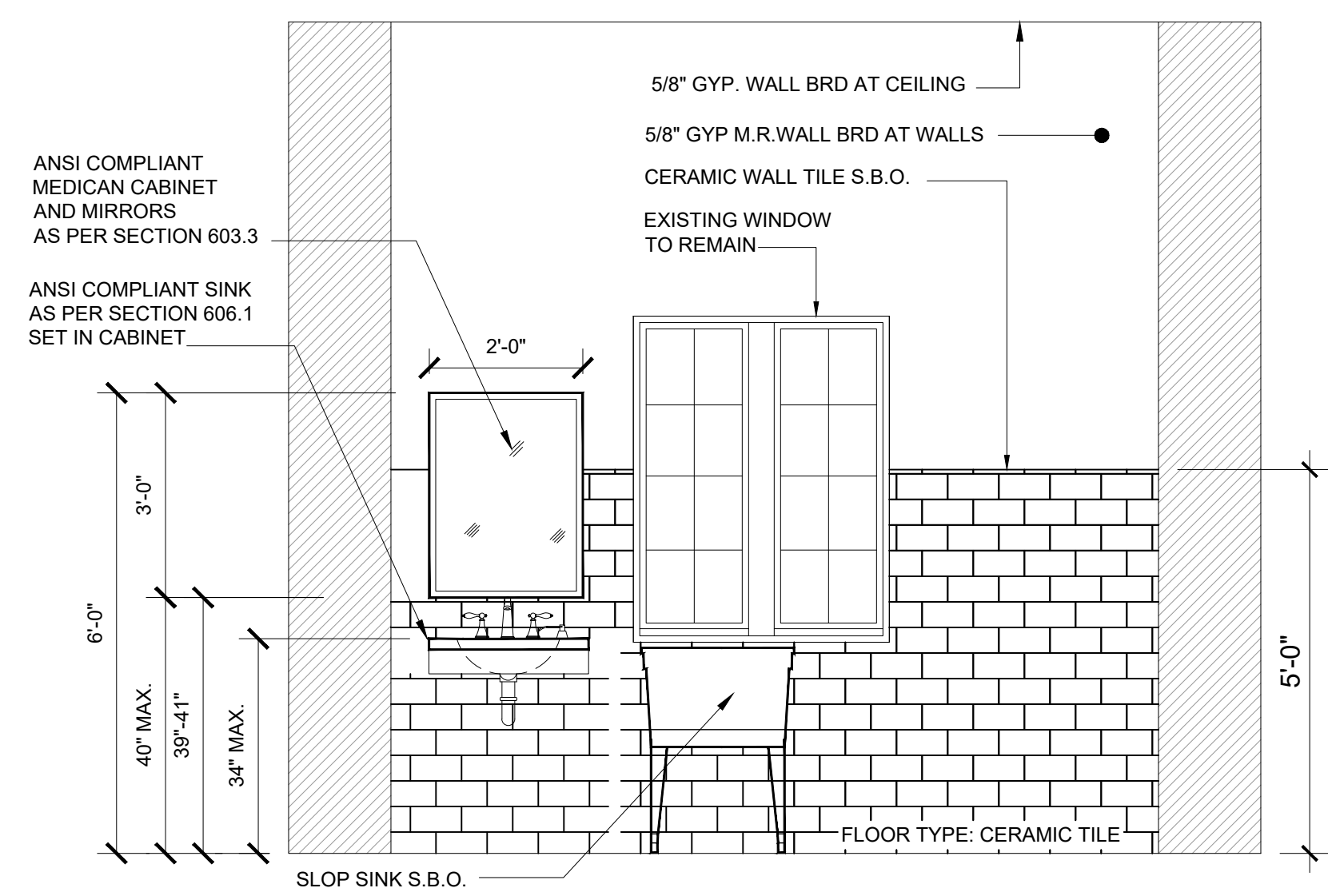




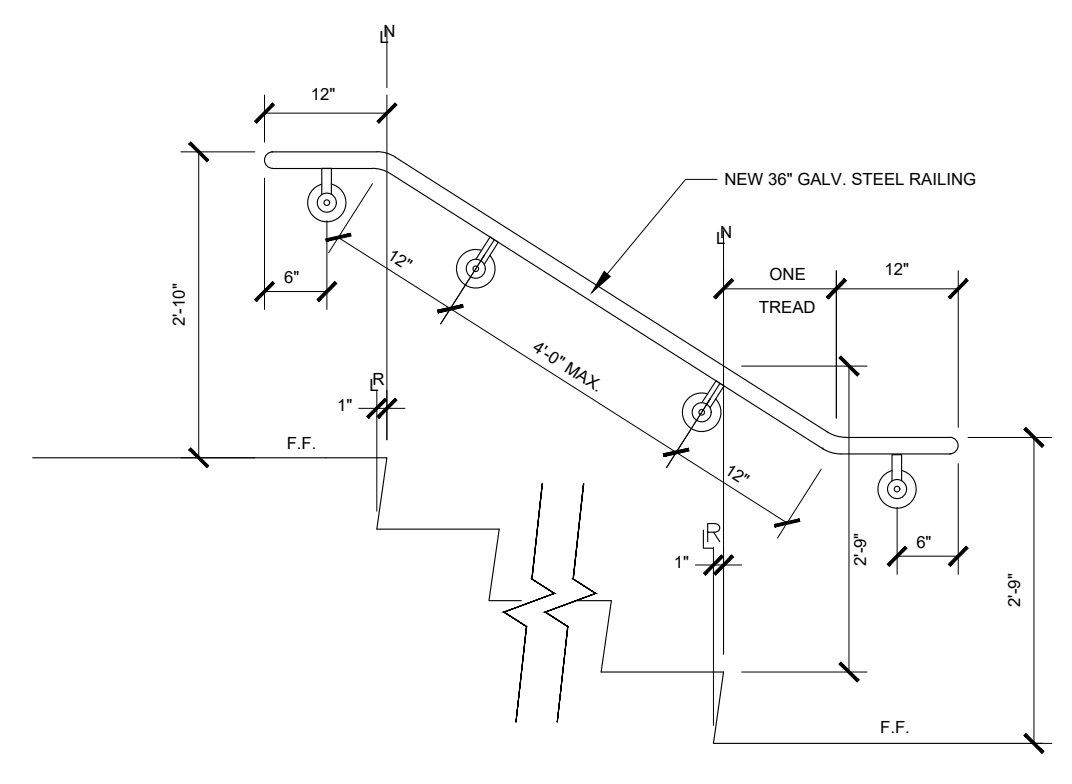
ADA NOTE:
607.5 CONTROLS: CONTROLS, OTHER THAN DRAIN STOPPERS, SHALL BE ON AN END WALL. CONTROLS SHALL BE BETWEEN THE BATHTUB RIM AND GRAB BAR, AND BETWEEN THE OPEN SIDE OF THE BATHTUB AND THE MIDPOINT OF THE WIDTH OF THE BATHTUB. CONTROLS SHALL COMPLY WITH SECTION 309.4

309.4 OPERATION: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2 N) MAXIMUM.

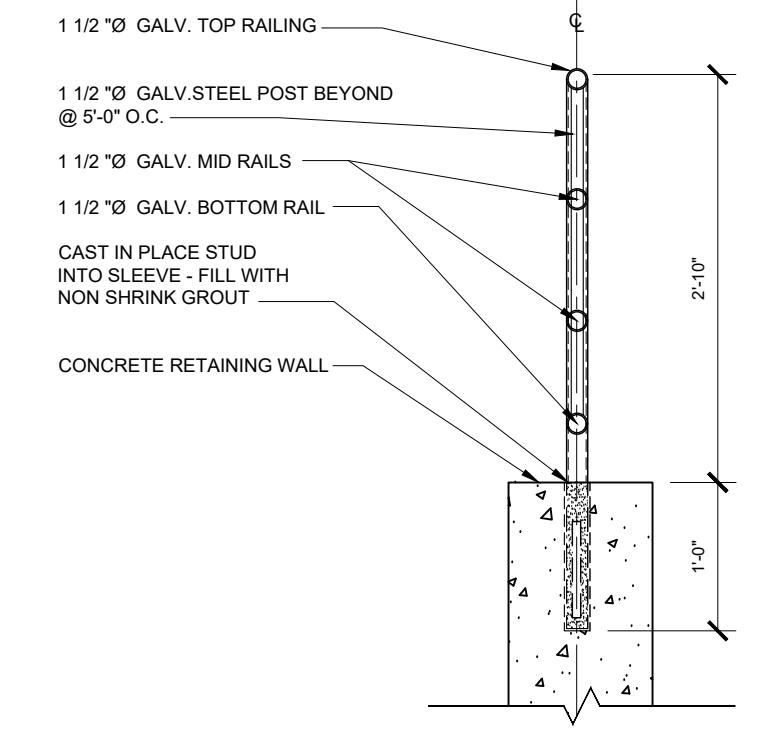
A ACCESSIBLE RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



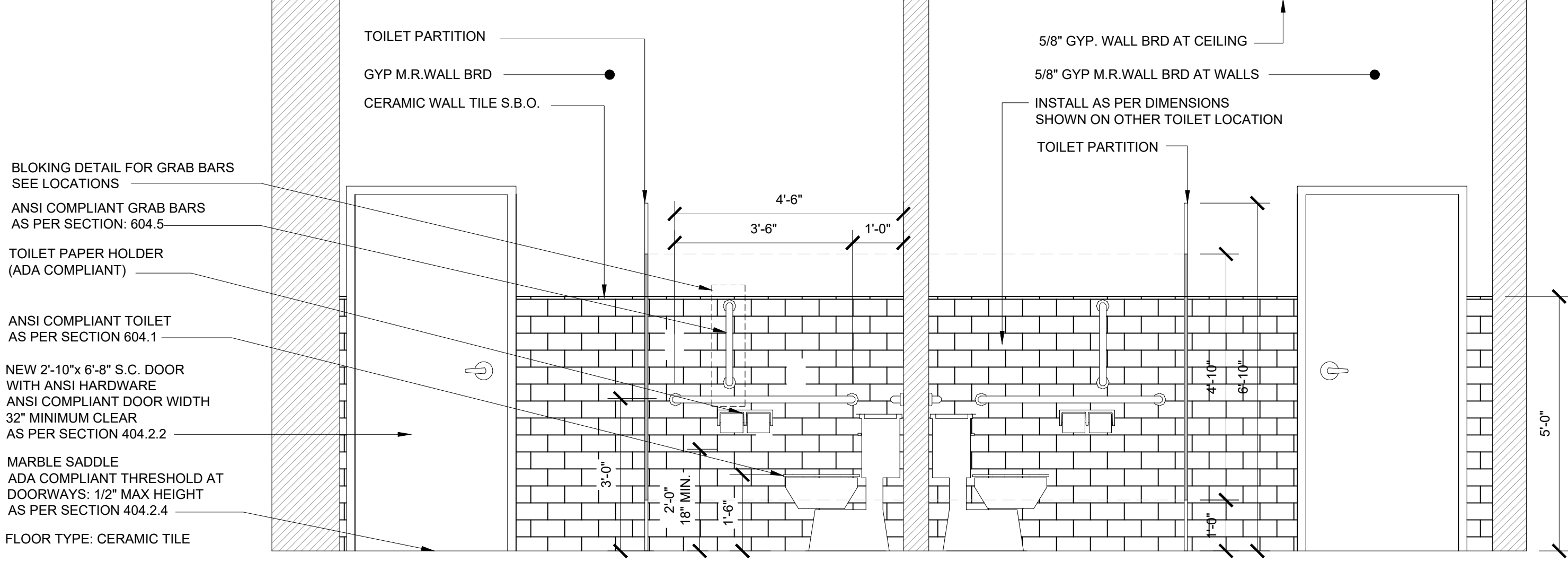
B ACCESSIBLE RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



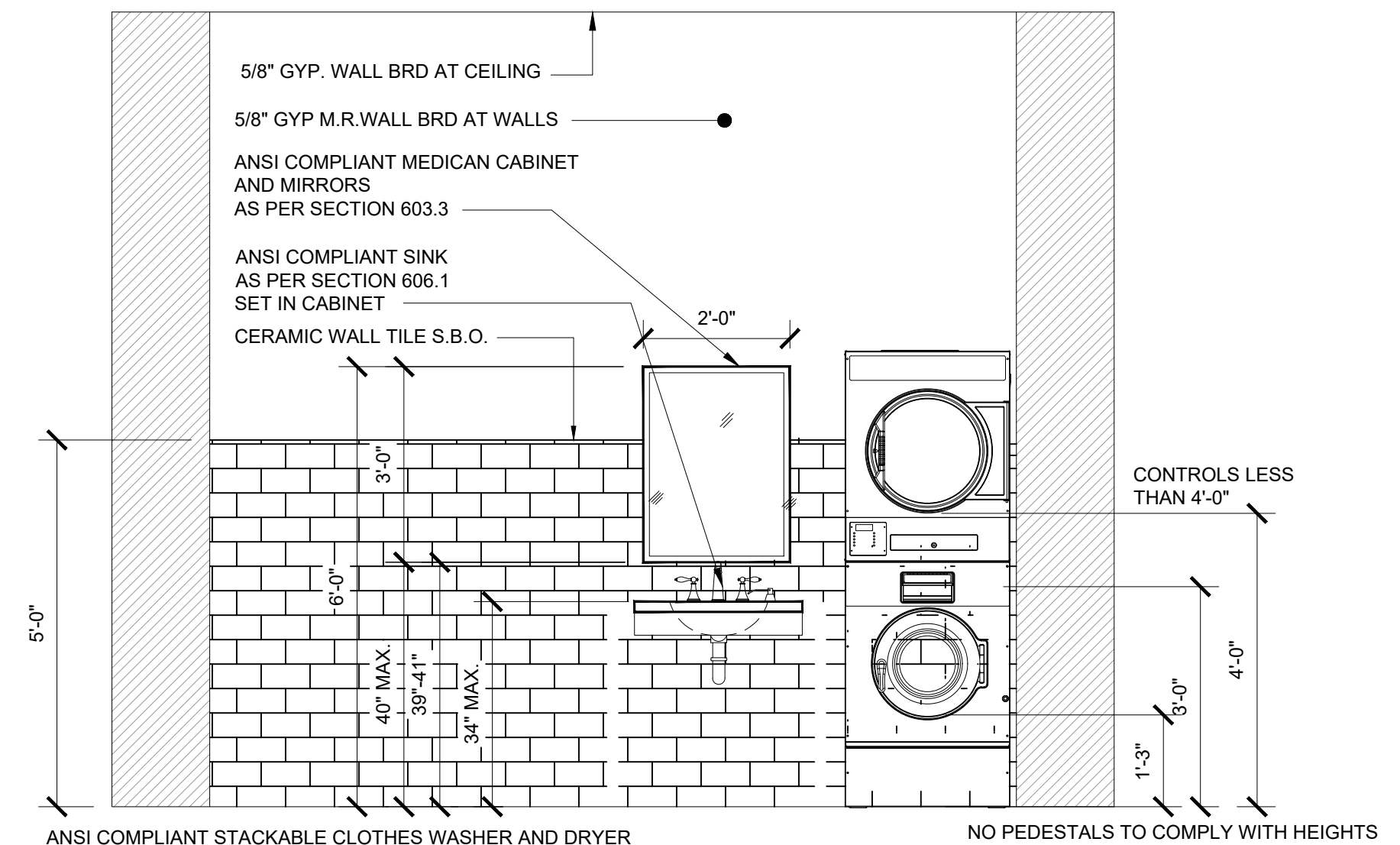
TYPICAL WALL MOUNTED RAILING DETAIL
SCALE: 3/4" = 1'-0"



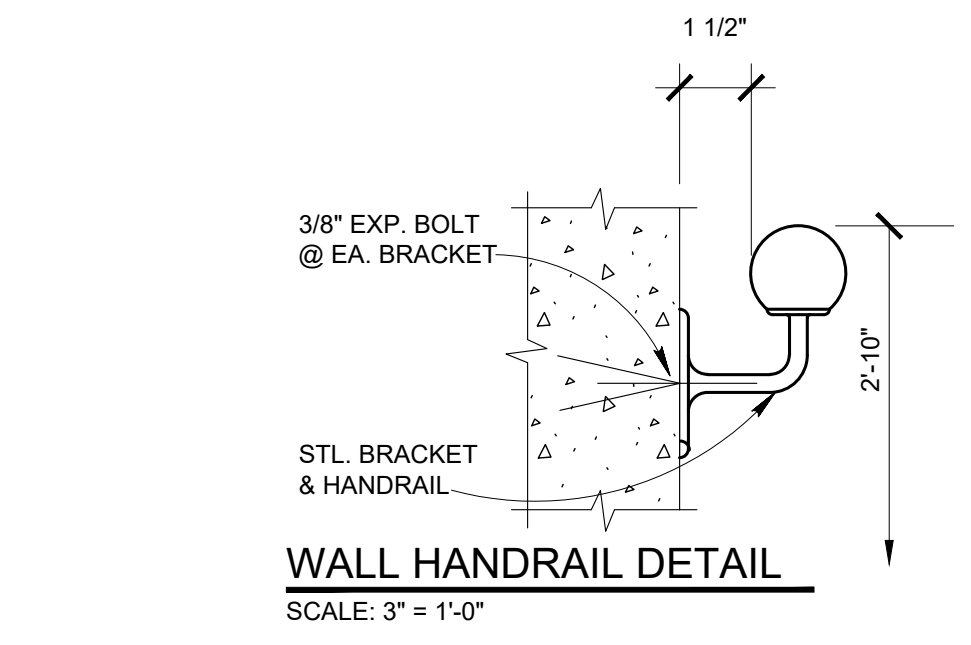
TYPICAL RAILING DETAIL
SCALE: 3/4" = 1'-0"



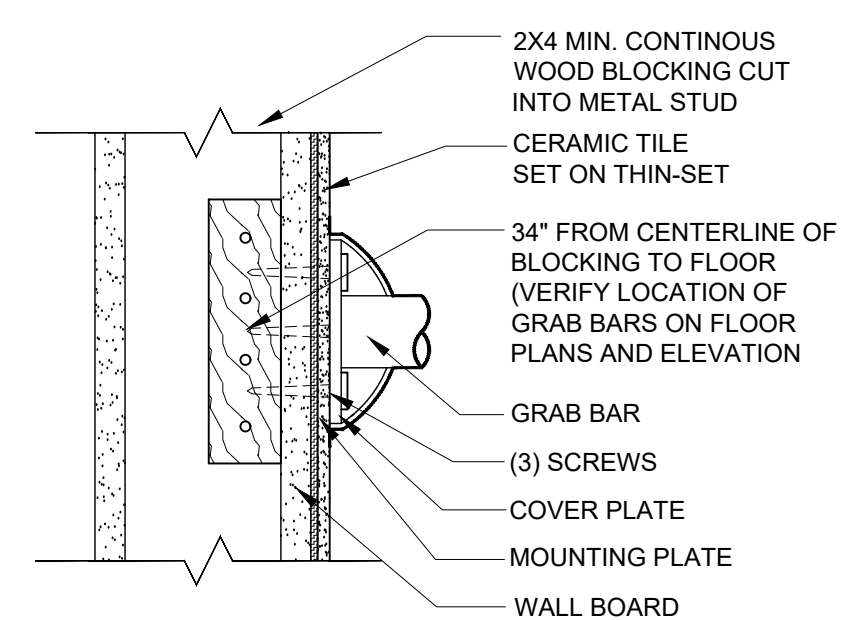
C ACCESSIBLE RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



ANSI COMPLIANT STACKABLE CLOTHES WASHER AND DRYER AS PER SECTION 611
TOP OF LOADING MACHINES SHALL HAVE THE DOOR TO THE LAUNDRY COMPARTMENT 36 INCHES MAXIMUM ABOVE FLOOR. FRONT LOADING MACHINES SHALL HAVE THE BOTTOM OF THE OPENING TO THE LAUNDRY COMPARTMENT 15 INCHES MAXIMUM AND 36 INCHES MAXIMUM ABOVE THE FLOOR
WASHING MACHINES AND CLOTHES DRYERS SHALL BE FRONT LOADING.
MANUFACTURE: GE APPLIANCES
MODEL# GEWADREW5503
FUEL: ELECTRIC
COLOR: S.B.O.
NOTE: ADA COMPLIANT STACKABLE DRYERS ARE ADA COMPLIANT WHEN INSTALLED ON THE FLOOR. THEY ARE NOT ADA COMPLIANT WHEN MOUNTED ON PEDESTALS OR STACKED BECAUSE IT PUTS THE CONTROLS ABOVE 48" HEIGHT FROM GROUND. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBS. FRONT LOADING MACHINES SHALL HAVE THE BOTTOM OF THE OPENING TO THE LAUNDRY COMPARTMENT LOCATED 15" MINIMUM AND 36" MAXIMUM FROM THE FLOOR



WALL HANDRAIL DETAIL
SCALE: 3" = 1'-0"

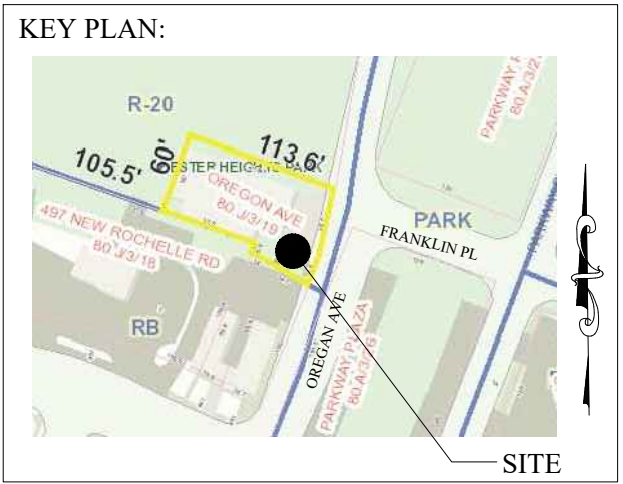


BLOCKING DETAIL (TYP)
SCALE: 3" = 1'-0"

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3	BID DOCUMENTS	05/08/20
2	BID DOCUMENT REVIEW	03/30/20
1	CLIENT REVIEW	12/20/19

REVISIONS



SCOPE OF WORK:
RESTROOM ADA IMPROVEMENTS AND MECHANICAL SYSTEMS

PROJECT LOCATION:
CHESTER HEIGHTS
EASTCHESTER FIRE STATION
EASTCHESTER, N.Y.
SECTION: 80.J
BLOCK: 03
LOT: 19
ZONE: R-20

SHEET TITLE:
ACCESSIBLE TOILET ROOM ELEVATIONS AND DETAILS

PROJECT #: 18-040418
SCALE: AS NOTED
DATE: 10/19/21
DRAWN BY: JOSEPH PATERNO, LEED AP
REVIEWED BY: MICHAEL GIANATASIO, P.E.
SEAL: SHEET NO.:

EQUIPMENT SCHEDULE:

ITEM	LOCATION	MANUFACTURE	INFORMATION	SIZE	COLOR		TOTAL
GARAGE DOOR	APPARATUS FLOOR	RAYNOR GARAGE DOOR	THERMASEAL TM200C	16'-8" X 13'-1"	S.B.O.		
FLOOR DRAIN	APPARATUS FLOOR	JAY R. SMITH MFG. CO.	12" HEAVEY GAGE GALV. STEEL GRATING	12"	N.A.		
TRENCH DRAIN	DRIVEWAY	PRECAST CONCRETE SALES CO.	8"Ø HEAVY DUTY DRAIN	8"Ø	S.B.O.		
CEILING PAINT	APPARATUS CEILING	BENJAMIN MOORE	ULTRA SPEC HP D.T.M. ACRYLIC GLOSS HP28 PRIMER AND FINISH COAT	N/A	S.B.O.		
DRYWELL	DRIVEWAY	PRECAST CONCRETE SALES CO.	PRE-CAST CONCRETE LEACHING RING	10"Ø X 6'	N.A.		
DRYWELL	FRONT YARD	CULTEC, INC.	RECHARGER 330 XL HD	4'-4"Ø X 8'-6"	N.A.		
FIRE PROOFING	CELLAR	GCP APPLIED TECHNOLOGIES	MONOKOTE Z-106.HY	N/A	N.A.		
WATERPROOFING	APPARATUS FLOOR	SIKA CORPORATION	COLD FLUID APPLIED POLYURETHAN TRAFFIC WATERPROOFING SYSTEM (SIKALATIC 745 TEXTURED) SIKALISTIC PRIMER SIKALISTIC 720 BASECOAT SIKALISTIC 745 TEXTURED TOP COAT	N/A	N.A.		
TOILET BOWL	RESTROOM	AMERICAN STANDARD	MADERA Elongated one-piece toilet	ADA	WHITE	MODEL: 2857.128.020	2
SINK	RESTROOM	AMERICAN STANDARD	Wheelchair 20" Wall Mounted Porcelain Bathroom Sink	ADA	WHITE	MODEL: 99140.013.020	2
FAUCET	RESTROOM	AMERICAN STANDARD	Colony Widespread Bathroom Faucet	ADA	WHITE	MODEL: 3875.501.002	2
SLOP SINK	RESTROOM	AMERICAN STANDARD	Wheelchair 20" Wall Mounted Porcelain Bathroom Sink	ADA	WHITE	MODEL: 99140.013.020	2
UTILITY SINK	RESTROOM	SPLASH	Splash CS-1-24-24-14-BS8 27" 1 Compartment Sink w/ 24"L x 24"W Bowl, 14" Deep	ADA	SS	MODEL: KaTom #: 079-BK8BS12414 • MPN: CS-1-24-24-14-BS8 (BK8BS-1-24-14)	1
UTILITY SINK FAUCET	RESTROOM	SPLASH	Splash SPL810L-12 Splash Mount Faucet w/ 10" Swing Spout & Lever Handles		SS	KaTom #: 079-SPL01821 • MPN: SPL810L-12	1
BATH/SHOWER PARTITIONS	RESTROOM	HADRIAN	STAINLESS STEEL PARTITIONS	ADA	SS	AS PER DRAWING LAYOUTS	2
MIRROR	RESTROOM	AMERICAN SPECIALITES (ASI)	STAINLESS STEEL 24X36	ADA	SS	MODEL# 20650-B SERIES	2
GRAB BARS	RESTROOM	AMERICAN SPECIALITES (ASI)	STAINLESS STEEL AS PER DRAWINGS	ADA	SS	AS PER DRAWINGS LAYOUTS & ADA DETAILS	2
SHOWER SEAT	RESTROOM	AMERICAN SPECIALITES (ASI)	FOLDING SHOWER SEAT	ADA	SS	8206-L FOLDING SHOWER SEAT, SOLID PHENOLIC, WHITE - L SHAPED, 33" WIDE - LEFT HAND, 8206-R FOLDING SHOWER SEAT, SOLID PHENOLIC, WHITE - L SHAPED, 33" WIDE - RIGHT HAND,	2
HAND DRYERS	RESTROOM	AMERICAN SPECIALITES (ASI)	SATIN STAINLESS STEEL	ADA	SS	0185-93 PROFILE™ STEEL COVER HAND DRYERS	2
TOILET TISSUE DISPENSER	RESTROOM	AMERICAN SPECIALITES (ASI)	SATIN STAINLESS STEEL	ADA	SS	74022-HBSM TOILET TISSUE HOLDER WITH HOOD (DOUBLE) - SURFACE MOUNTED, BRIGHT	2
ACCESSIBLE WATER FOUNTAIN	APPARATUS FLOOR	Elkay	Color: Light Gray Granite	ADA		Elkay EZS8L wall-mounted cooler, ADA Barrier Free Item#T9FB190402 Color: Light Gray Granite Width 18-3/8 Depth 19 Height 19-13/16 weight 51 lbs	1

UNIVERSAL ENGINEERING SERVICES, P.C.

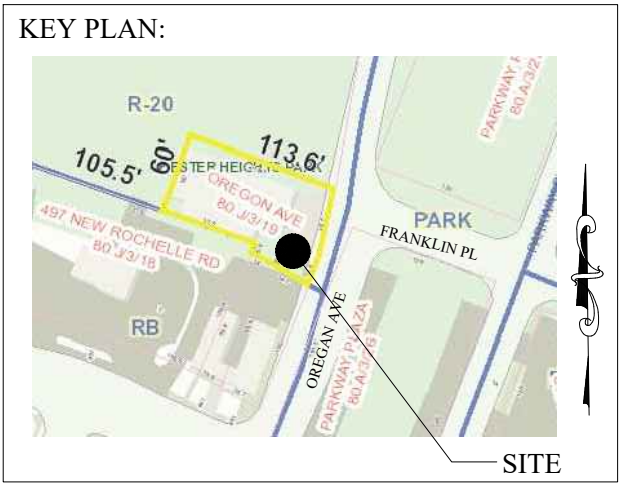
ENGINEERING GREEN DESIGN CONSTRUCTION MANAGEMENT

403 Main Street, Suite 871
Armonk, New York 10504
TEL: (212) 586-5192
FAX: (914) 470-1133
E-MAIL: JPATERNO@UESPC.COM

UES NOTE:
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1	CLIENT REVIEW	12/20/19
NO.	ISSUED FOR	DATE

REVISIONS



SCOPE OF WORK:

RESTROOM ADA IMPROVEMENTS AND MECHANICAL SYSTEMS

PROJECT LOCATION:
CHESTER HEIGHTS EASTCHESTER FIRE STATION
EASTCHESTER, N.Y.
SECTION: 80.J
BLOCK: 03
LOT: 19
ZONE: R-20

SHEET TITLE:

EQUIPMENT LIST ACCESSIBLE TYPICAL DETAILS

PROJECT #: 18-040418

SCALE: AS NOTED

DATE: 10/19/21

DRAWN BY: JOSEPH PATERNO, LEED AP

REVIEWED BY: MICHAEL GIANATASIO, P.E.

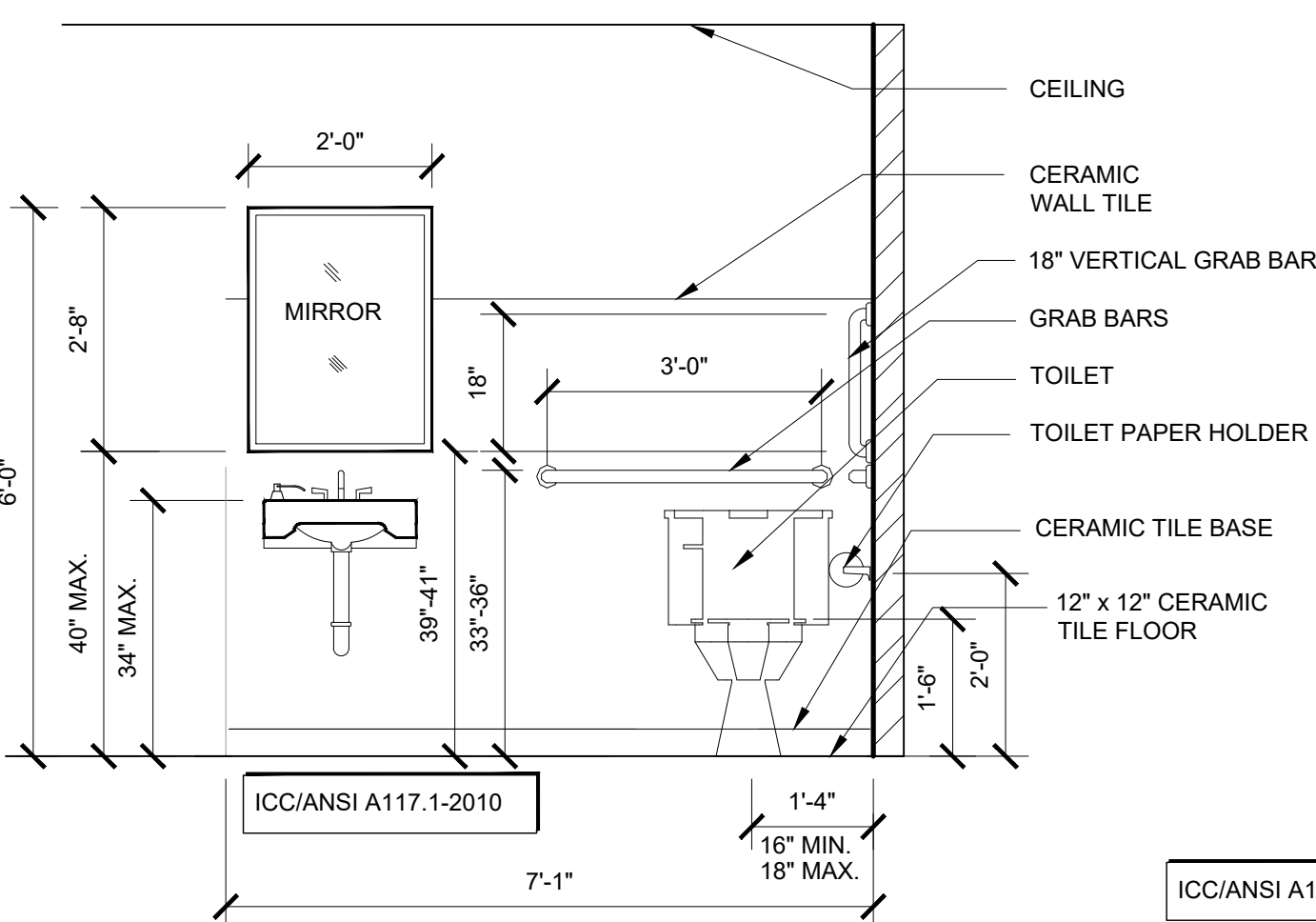
SEAL: SHEET NO.:

S-403

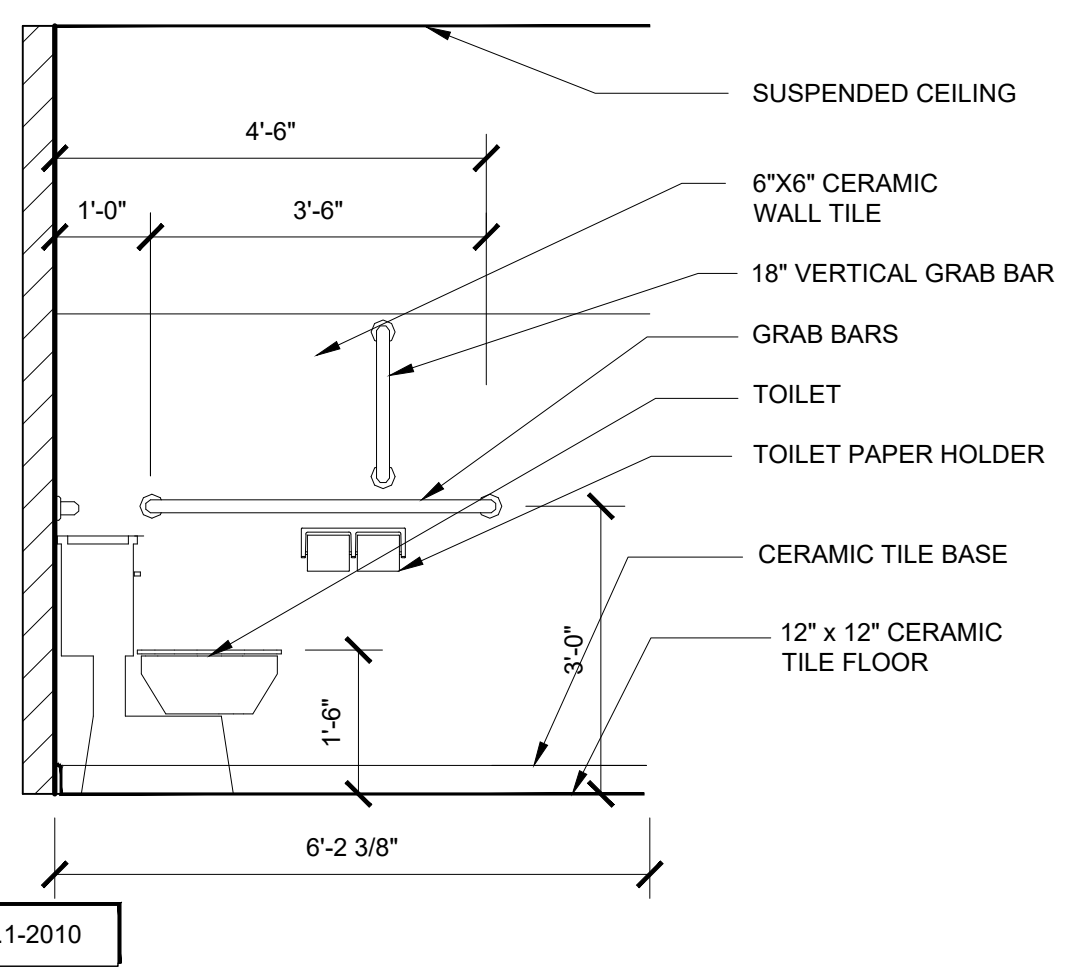
- ANSI COMPLIANT DISPENSERS AS PER SECTION: 604.7
- ANSI COMPLIANT GRAB BARS AS PER SECTION: 604.5
- ANSI COMPLIANT SINK AS PER SECTION 606.1
- ANSI COMPLIANT TOILET AS PER SECTION 604.1
- ANSI COMPLIANT COAT HOOKS AND SHELVES AS PER SECTION 603.4 SHELVES: 40" MIN. 48" MAX. ABOVE FLOOR
- ANSI COMPLIANT MIRRORS AS PER SECTION 603.3
- FLOOR TYPE: 12" x 12" CERAMIC TILE

- MARBLE SADDLE ADA COMPLIANT THRESHOLD AT DOORWAYS: 1/2" MAXIMUM HEIGHT AS PER SECTION 404.2.4
- NEW 2'-10" x 6'-8" S.C. DOOR WITH ANSI HARDWARE
- ANSI COMPLIANT DOOR WIDTH 32" MINIMUM CLEAR AS PER SECTION 404.2.2
- BLOCKING DETAIL FOR GRAB BARS SEE LOCATIONS OF GRAB BARS FOR EXTENT OF WORK

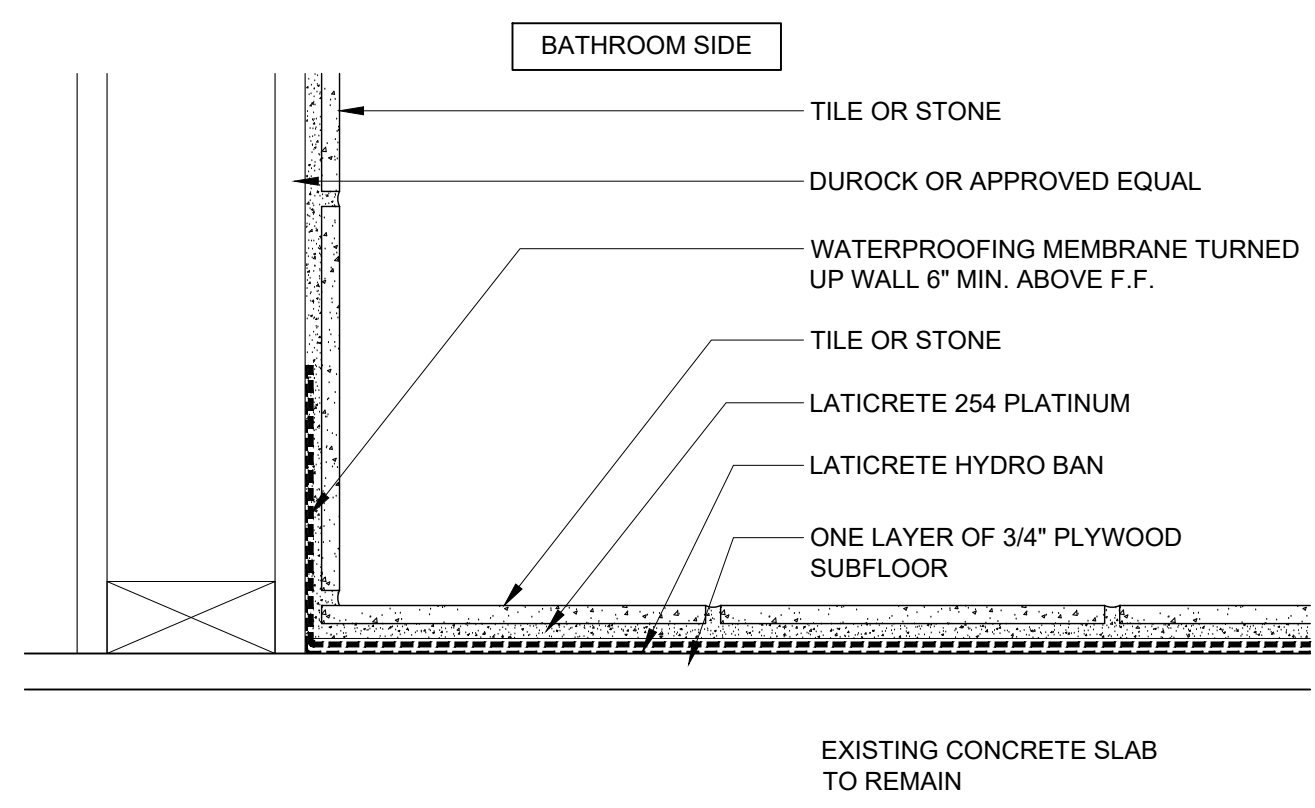
ICC/ANSI A117.1-2010



309.4 OPERATION: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2 N) MAXIMUM.

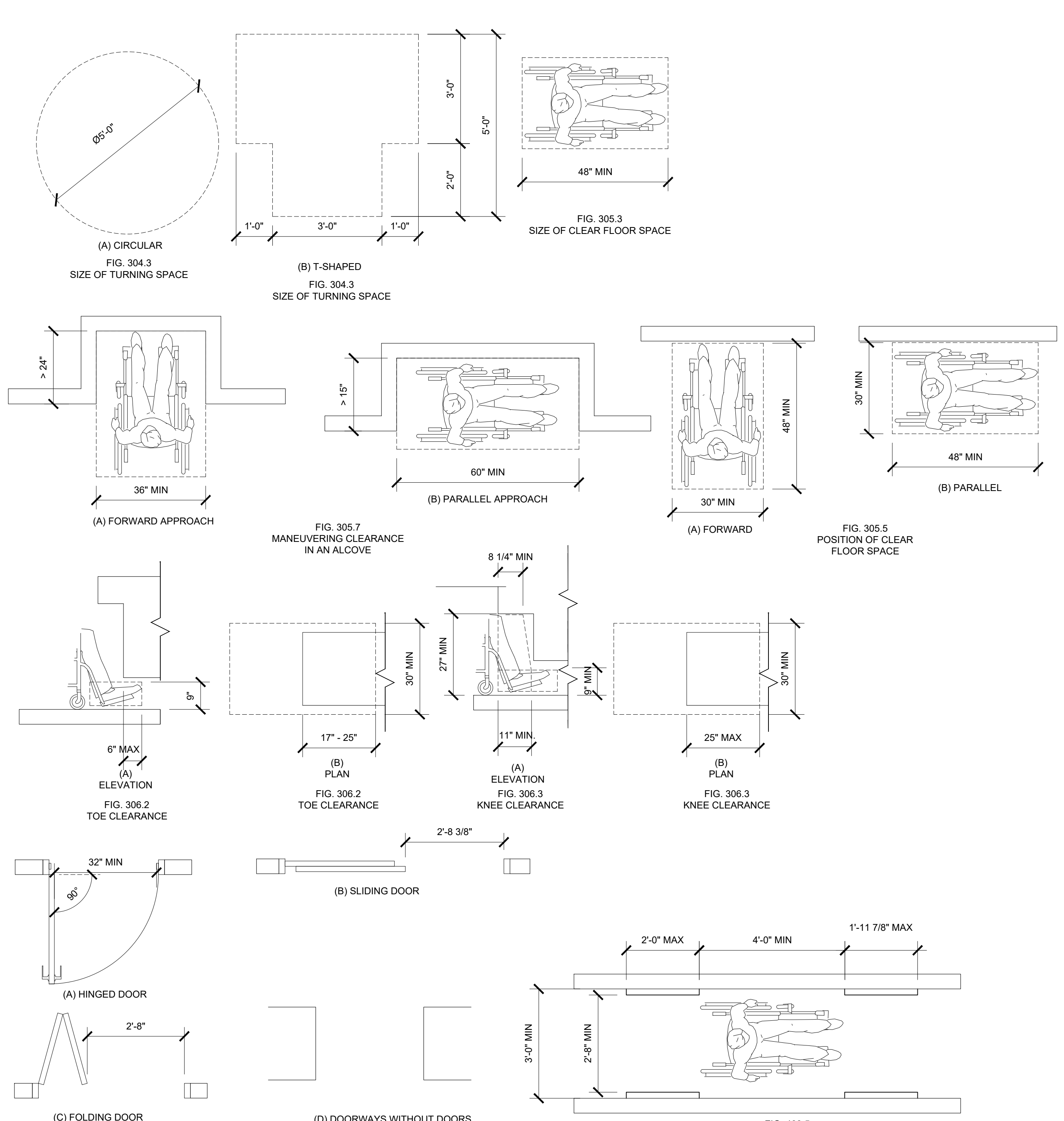
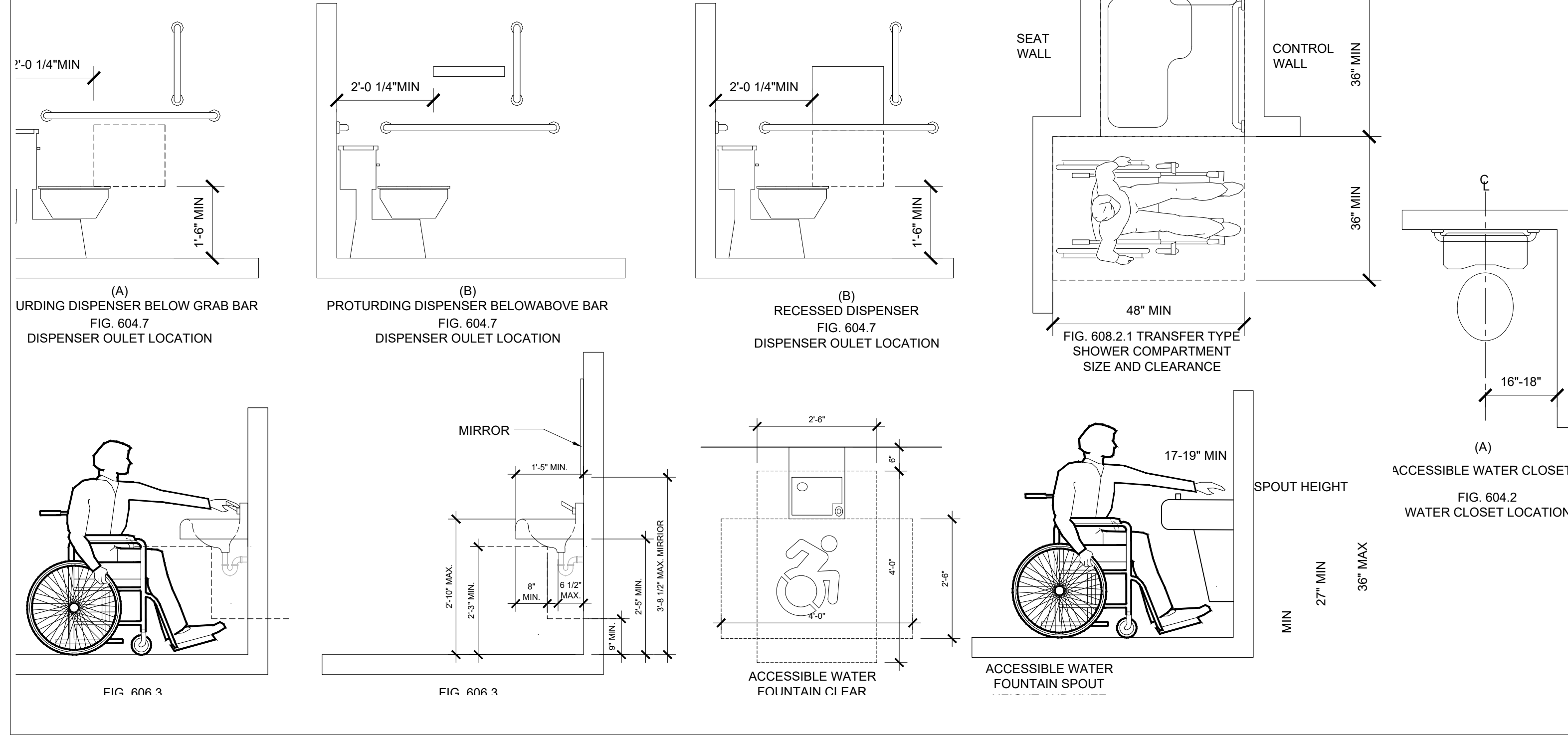
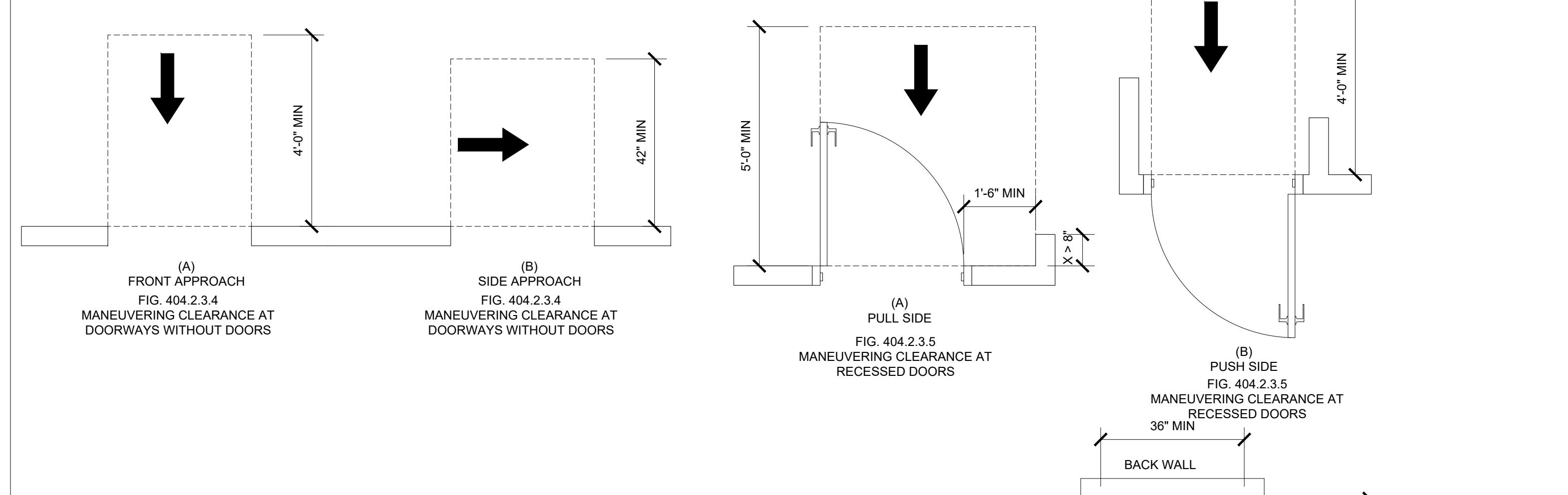
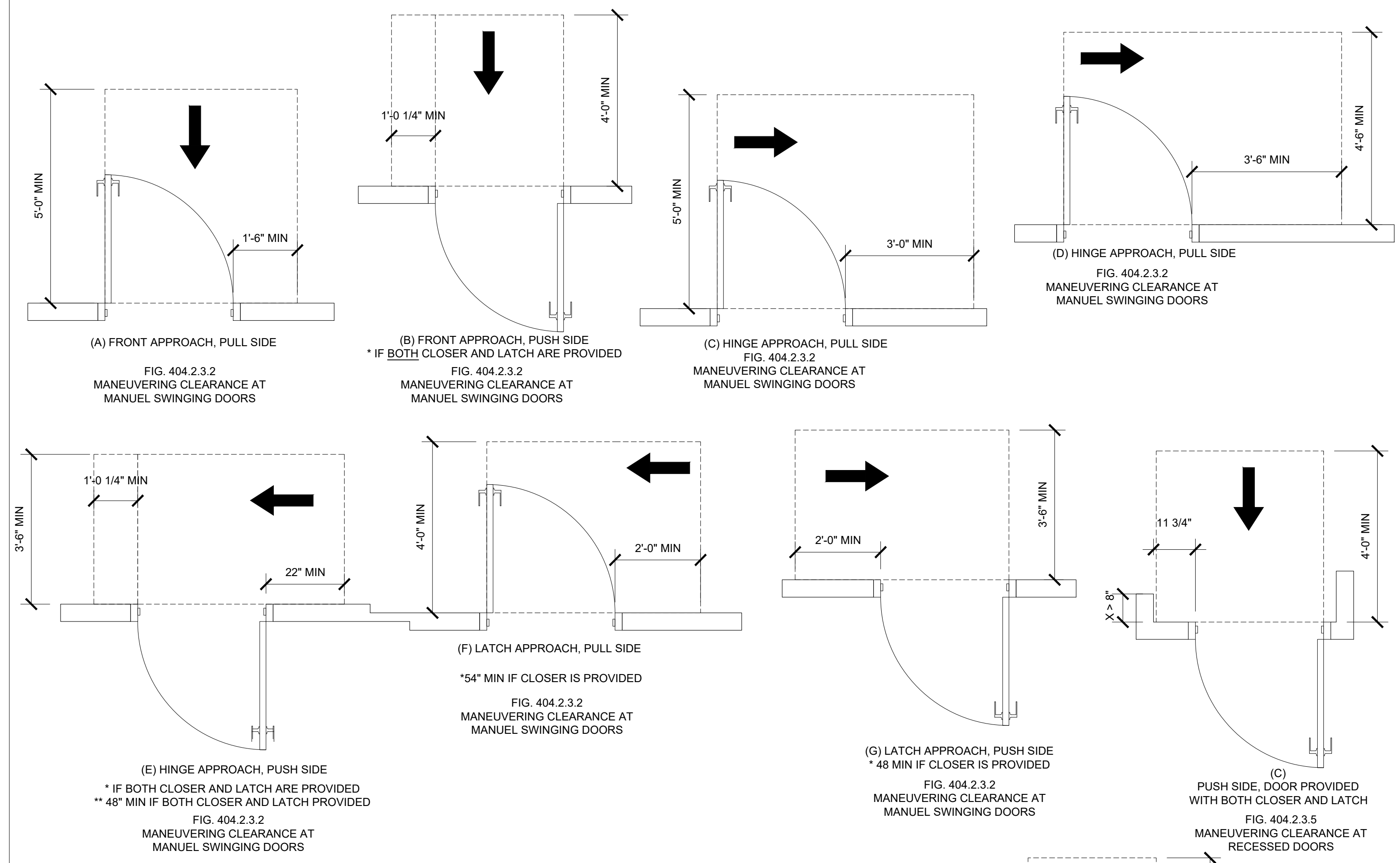


309.4 OPERATION: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2 N) MAXIMUM.

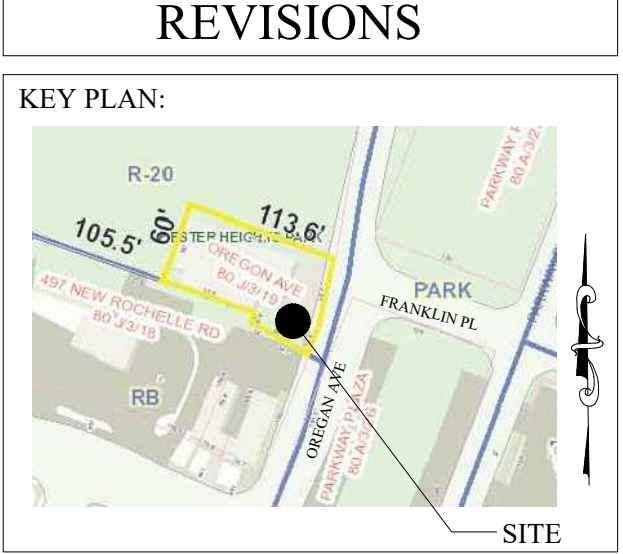


WATERPROOFING DETAIL
SCALE: 3" = 1'-0"

UES NOTE:
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NO.	ISSUED FOR	DATE
6	BID REVIEW ADA IMPROVEMENTS	10/19/21
5	BLDG. DEPT. REVIEW	05/03/21
4	BLDG. DEPT. REVIEW	06/02/20
3	BID DOCUMENTS	05/08/20
2	BID DOCUMENT REVIEW	03/30/20
1	CLIENT REVIEW	12/20/19



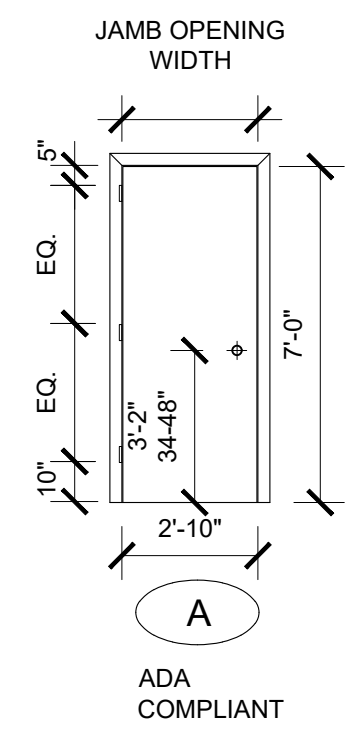
SCOPE OF WORK:
 RESTROOM ADA IMPROVEMENTS AND MECHANICAL SYSTEMS

PROJECT LOCATION:
 CHESTER HEIGHTS EASTCHESTER FIRE STATION
 EASTCHESTER, N.Y.
 SECTION: 80.J
 BLOCK: 03
 LOT: 19
 ZONE: R-20

SHEET TITLE:
 ACCESSIBLE TYPICAL DETAILS

PROJECT #: 18-040418
 SCALE: AS NOTED
 DATE: 10/19/21
 DRAWN BY: JOSEPH PATERNO, LEED AP
 REVIEWED BY: MICHAEL GIANATASIO, P.E.

SECTION 603.2.2 DOOR SWING, DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE FOR ANY FIXTURE.
 EXCEPTION 2: WHERE THE ROOM IS FOR INDIVIDUAL USE AND A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305.3 IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING, THE DOOR SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 603.2.2.
 (THIS PERMITS THE DOOR TO SWING INTO THE CLEAR FLOOR SPACE OF AN ACCESSIBLE FIXTURE IF A CLEAR FLOOR SPACE THAT MEASURES 30 INCHES BY 48 INCHES IS AVAILABLE OUTSIDE THE DOOR SWING IN SINGLE-USER TOILET ROOMS.)



DOOR SCHEDULE:

NOTE: FIELD VERIFY ALL EXISTING MASONRY OPENINGS

ALL FLOOR LEVELS		EACH DOOR LEAF			FRAME DETAILS							REMARKS			
NO.	ROOM	W	H	T	TYPE	STYLE	FINISH	MATERIAL	FRAME	FR	HEAD		JAMB	SILL	HW
A	ADA TOILET RM	2'-10"	7'-0"	1 3/8"	SINGLE	FLUSH	PAINT	STL 16 GA	STL 18 GA	N/A	B	B			1 1/2 HR F.P.S.C.

NOTE: ALL DOOR LOCATIONS SHALL COMPLY WITH DOOR APPROACH AND SWING SHALL COMPLY WITH ALL ADA REQUIREMENTS.

NOTE: PROVIDE CLOSER: CLOSER SPEED TO COMPLY WITH ADA: CLOSER 5 SEC. MIN. FROM 90° TO 12° (SPRING HINGES: 1.5 SEC MIN. FROM 70° TO 0°)

NOTE: THRESHOLDS (404.2.5) 1/2" MAX HIGH (BEVELED IF ABOVE 1/4")

NOTE: SMOOTH SURFACE (404.2.10) REQUIRED AT THE BOTTOM ON THE PUSH SIDE 10" MIN AFF.

NOTE: OPENING FORCE (404.2.9) 5 LBS MAX.

ELECTRICAL LEGEND

- FOR APPARATUS FLOOR: 48" FLHA SERIES LED LINEAR HIGH BAY COMMERCIAL UNIT LUMINAIRE - 321W MANUFACTURE: PACKLIGHTS MODEL# FLHA 4D 321
- FOR CELLAR FLOOR: 48" LED HIGH BAY COMMERCIAL UNIT LUMINAIRE - 321W IBSG LED HIGH BAY 20" X 48" 3600LM 120V HIGH EFFICIENCY FIXTURES WITH SENSOR
- 2X2 LED RECESSED DIRECT/INDIRECT LUMINAIRE
- 2X2 CEILING TILE S.B.O.
- EXISTING EMERGENCY LIGHTING
- EXISTING EXIT SIGN
- EXISTING ELECTRICAL OUTLET
- INDUSTRIAL/COMMERCIAL COMBO UNIT LED EXIT SIGN WATTS PER EXIT SIGN: 4.0 W (5 WATTS MAX.)
- SINGLE POLE TOGGLE SWITCH, MS INDICATES WITH MOTION SENSOR
- SINGLE POLE TOGGLE SWITCH.
- DUPLEX GFI OUTLET
- 20 AMP 110V OUTLET
- PORTABLE FIRE EXTINGUISHERS
- SMOKE/CARBON DIOXIDE ALARM COMBINATION HARD WIRED AND CONNECTED TO A CENTRAL STATION.

UNIVERSAL ENGINEERING SERVICES, P.C.

ENGINEERING GREEN DESIGN CONSTRUCTION MANAGEMENT

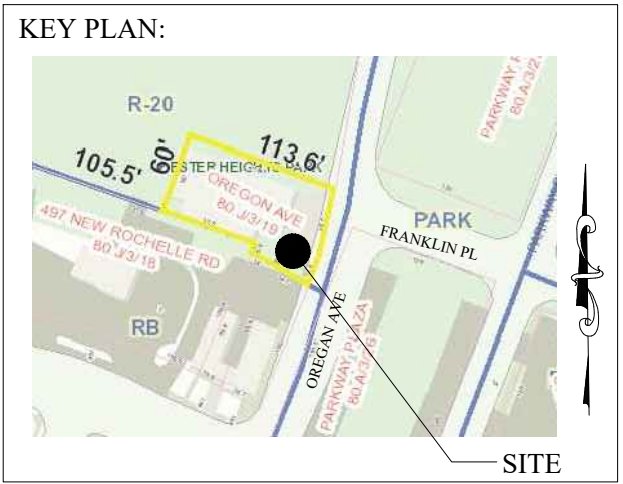
403 Main Street, Suite 871
Armonk, New York 10504
TEL: (212) 586-5192
FAX: (914) 470-1133
E-MAIL: JPATERNO@UESPC.COM

UES NOTE:

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REVISIONS



SCOPE OF WORK:

RESTROOM ADA IMPROVEMENTS AND MECHANICAL SYSTEMS

PROJECT LOCATION:

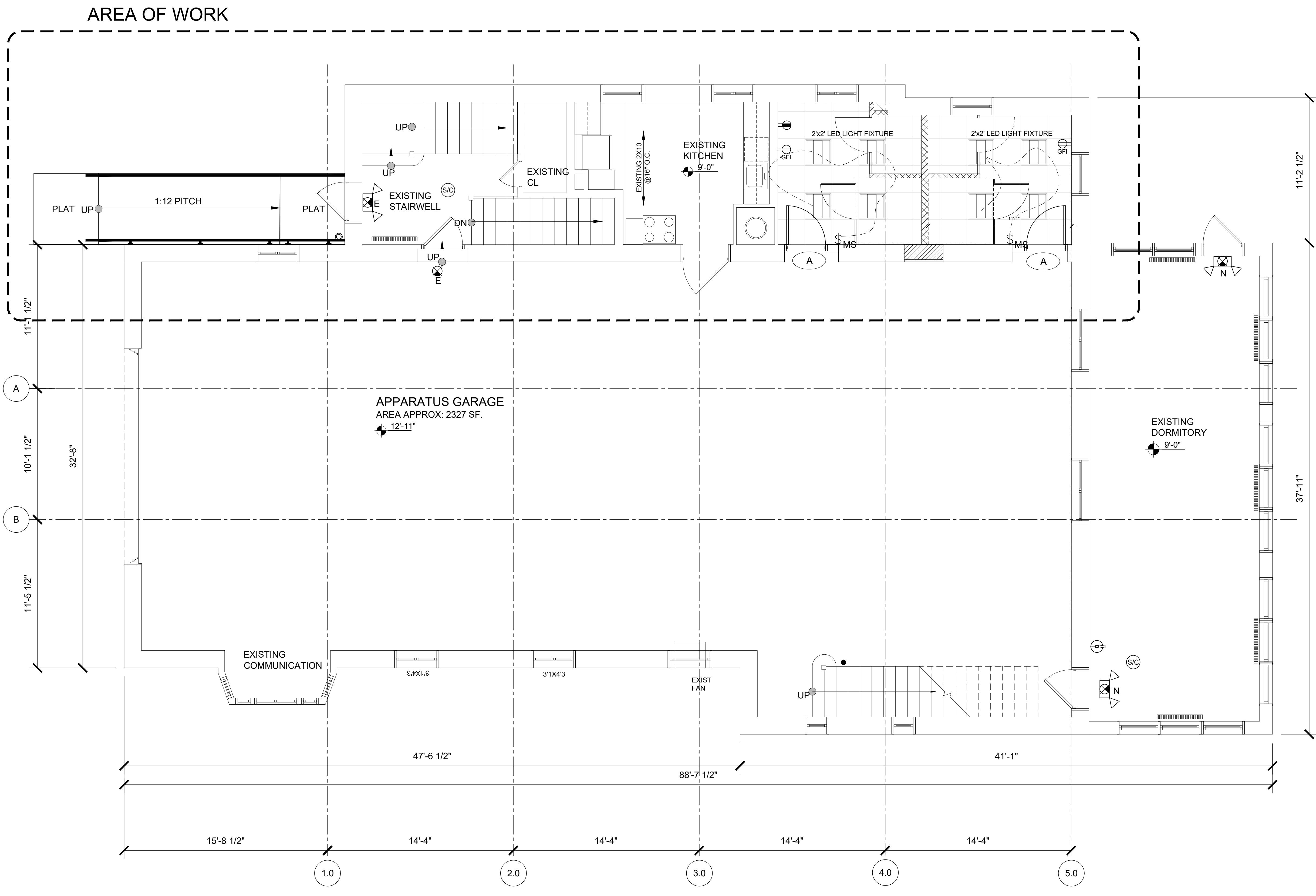
CHESTER HEIGHTS
EASTCHESTER FIRE STATION
EASTCHESTER, N.Y.
SECTION: 80.J
BLOCK: 03
LOT: 19
ZONE: R-20

SHEET TITLE:

FIRST FLOOR LIGHTING AND POWER FLOOR PLAN & DOOR SCHEDULE

PROJECT #: 18-040418
SCALE: AS NOTED
DATE: 10/19/21
DRAWN BY: JOSEPH PATERNO, LEED AP
REVIEWED BY: MICHAEL GIANATASIO, P.E.

SEAL: SHEET NO.: S-502



PROPOSED FIRST FLOOR LIGHTING & POWER PLAN
SCALE: 1/4"=1'-0"

AREA OF WORK