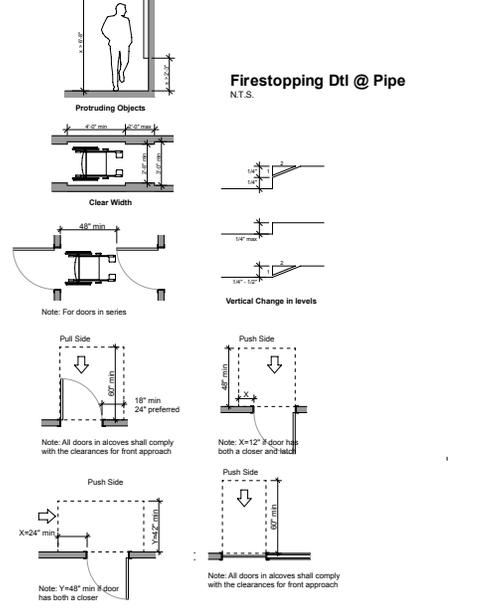
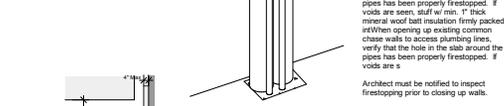
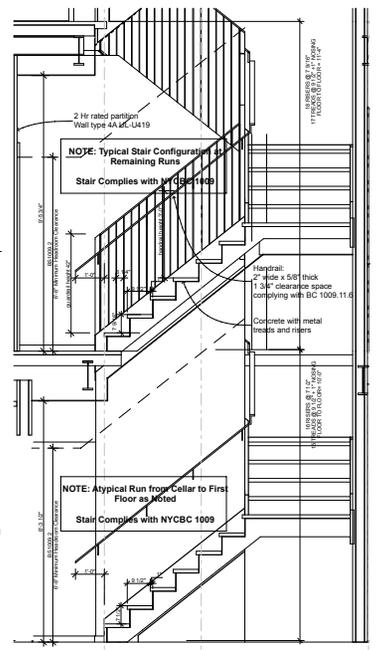


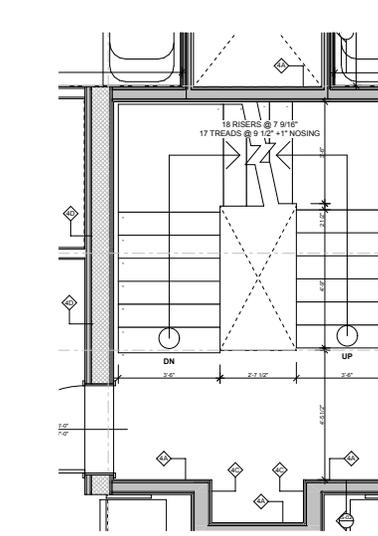
1 Accessibility Diagrams
SCALE: 1/4" = 1'-0"



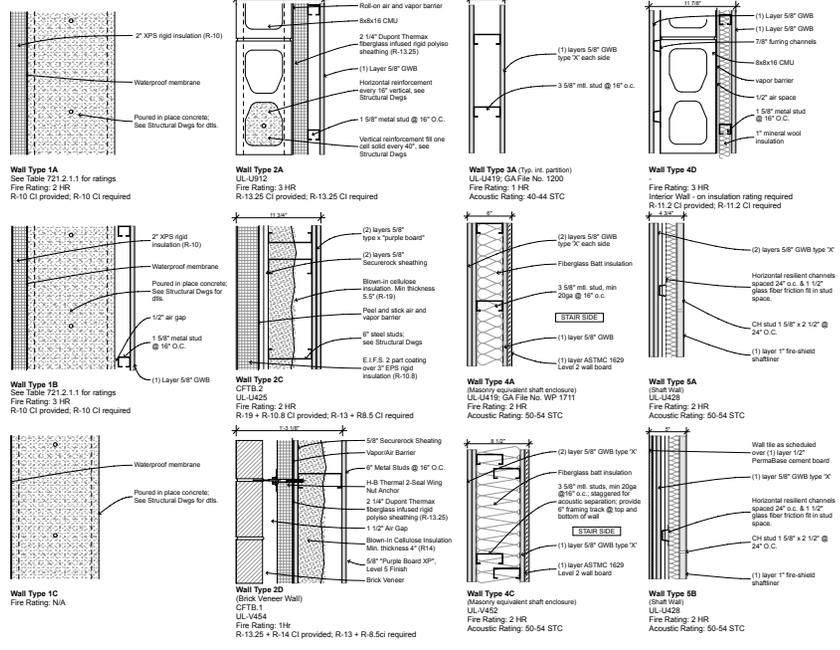
3 Accessibility Diagrams
NOT TO SCALE



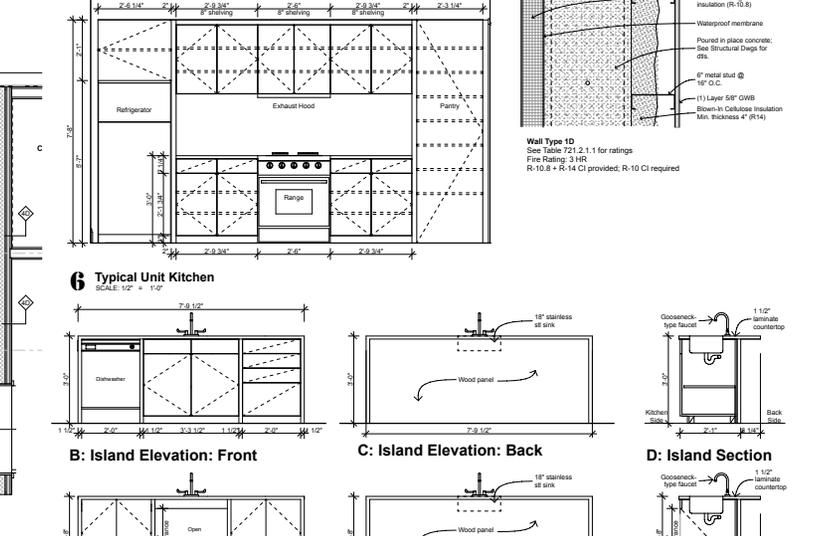
2 Typical Stair Section
SCALE: 1/2" = 1'-0"



4 Typical Stair Plan
SCALE: 1/2" = 1'-0"



5 Wall Types
SCALE: 1/2" = 1'-0"



6 Typical Unit Kitchen
SCALE: 1/2" = 1'-0"

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Cyr Apollinar Garcia
APPROVED
Date: 05/06/2022

920 Metropolitan Avenue Brooklyn, NY 11211

ADA, Stair, Wall Types

REGISTERED ARCHITECT
STATE OF NEW YORK
19750

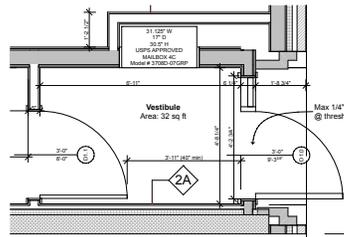
GN-101.00
Sheet 2 of 17
DOB Application #900715872-11

Door Schedule

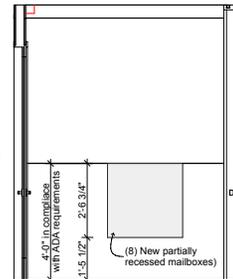
Floor	ID#	Room	W	H	THK	Type	Material	View from Opening Side	Fire Rating	Manufacturer - Model No.	Assembly U-Factor	SHGC	VT	Air Leakage Rate (CFM/SF)	Notes
Cellar															
	D0.0	Mechanical Room	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		90m FPI/SC	-	N/A	N/A	-	-	
	D0.1	Hot Water Heaters	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		90m FPI/SC	-	N/A	N/A	-	-	gasketed and weatherstripped
	D0.2	Electrical Room	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		90m FPI/SC	-	N/A	N/A	-	-	gasketed and weatherstripped
	D0.3	Cellar Hall	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		-	-	N/A	N/A	-	-	
	D0.4	Cellar Hall	2'-10"	7'-0"	1 3/4"	Single Swing	Wood		-	-	N/A	N/A	-	-	
	D0.5	Storage	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		-	-	N/A	N/A	-	-	
	D0.6	Cellar Hall	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		90m FPI/SC	-	N/A	N/A	-	-	gasketed and weatherstripped
	D0.7	Janitors CL	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		-	-	N/A	N/A	-	-	
	D0.8	Storage	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		-	-	N/A	N/A	-	-	
	D0.9	Cellar Hall	2'-10"	7'-0"	1 3/4"	Single Swing	Aluminum		Anderson AEHD2880	0.28	0.16	0.35	-	-	
	D0.10	Storage	5'-0"	7'-0"	1 3/4"	Single Swing	Wood		-	-	N/A	N/A	-	-	
First Floor															
	D1.0	Entry	3'-0"	9'-3 1/2"	1 3/4"	Single Swing	Aluminum		Kawneer 350T Insulguard Thermal Entrance	0.49	0.35	0.35	-	<0.2	1" Double Glazing U=0.26 glass
	D1.1	Vestibule	3'-0"	8'-0"	1 3/4"	Single Swing	Wood		-	-	N/A	N/A	-	-	
	D1.2	1F Kitchen/Living	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		-	-	N/A	N/A	-	-	
	D1.3	1F Kitchen/Living	2'-3 1/4"	7'-8"	1 3/4"	Single Swing	Wood		-	-	N/A	N/A	-	-	
	D1.4	1F Kitchen/Living	4'-4"	7'-6"	1 3/4"	Double Swing	Wood		-	-	N/A	N/A	-	-	
	D1.5	1F Bathroom	2'-10"	7'-6"	1 3/4"	Single Swing	Wood		-	-	N/A	N/A	-	-	
	D1.6	Lobby	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		90m FPI/SC	-	N/A	N/A	-	-	gasketed and weatherstripped
	D1.7	Lobby	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		90m FPI/SC	-	N/A	N/A	-	-	gasketed and weatherstripped
	D1.8	1R Kitchen/Living	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		-	-	N/A	N/A	-	-	
	D1.9	1R Kitchen/Living	3'-7 3/4"	7'-11"	1 3/4"	Single Swing	Aluminum clad wood and glass		Anderson AEHD3680	0.28	0.16	0.35	-	<0.2	
	D1.10	1R Bedroom	2'-10"	7'-0"	1 3/4"	Single Swing	Wood		-	-	N/A	N/A	-	-	
	D1.11	1R Bedroom	4'-4"	7'-0"	1 3/4"	Sliding	Wood		-	-	N/A	N/A	-	-	
	D1.12	1R Bathroom	2'-10"	7'-6"	1 3/4"	Sliding	Wood		-	-	N/A	N/A	-	-	
	D1.13	1R Hall	3'-3"	7'-0"	1 3/4"	Double Swing	Wood		-	-	N/A	N/A	-	-	
Second Floor															
	D2.0	2F Kitchen/Living	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		90m FPI/SC	-	N/A	N/A	-	-	gasketed and weatherstripped
	D2.1	2F Hall	4'-3"	7'-0"	1 3/4"	Double Swing	Wood		-	-	N/A	N/A	-	-	
	D2.2	2F Bathroom	2'-10"	7'-0"	1 3/4"	Single Swing	Wood		-	-	N/A	N/A	-	-	
	D2.3	2F Bedroom	2'-10"	7'-0"	1 3/4"	Single Swing	Wood		-	-	N/A	N/A	-	-	

D2.4	2F Bedroom	4'-4"	7'-0"	1 3/4"	Sliding	Wood		-	-	N/A	N/A	-	-	-	
D2.5	2R Kitchen/Living	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		90m FPI/SC	-	-	N/A	N/A	-	-	gasketed and weatherstripped
D2.6	2R Hall	4'-3"	7'-0"	1 3/4"	Double Swing	Wood		-	-	-	N/A	N/A	-	-	
D2.7	2R Bathroom	2'-10"	7'-0"	1 3/4"	Single Swing	Wood		-	-	-	N/A	N/A	-	-	
D2.8	2R Bedroom	2'-10"	7'-0"	1 3/4"	Single Swing	Wood		-	-	-	N/A	N/A	-	-	
D2.9	2R Bedroom	4'-4"	7'-0"	1 3/4"	Double Swing	Wood		-	-	-	N/A	N/A	-	-	
D2.10	2R Kitchen/Living	3'-7 3/4"	7'-11"	1 3/4"	Single Swing	Aluminum clad wood and glass		Anderson AEHD3680	0.28	0.16	0.35	-	<0.2		
Third Floor															
D3.0	3F Kitchen/Living	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		90m FPI/SC	-	-	N/A	N/A	-	-	gasketed and weatherstripped
D3.1	3F Hall	4'-3"	7'-0"	1 3/4"	Double Swing	Wood		-	-	-	N/A	N/A	-	-	
D3.2	3F Bathroom	2'-10"	7'-0"	1 3/4"	Single Swing	Wood		-	-	-	N/A	N/A	-	-	
D3.3	3F Bedroom	2'-10"	7'-0"	1 3/4"	Single Swing	Wood		-	-	-	N/A	N/A	-	-	
D3.4	3F Bedroom	4'-4"	7'-0"	1 3/4"	Sliding	Wood		-	-	-	N/A	N/A	-	-	
D3.5	3R Kitchen/Living	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		90m FPI/SC	-	-	N/A	N/A	-	-	gasketed and weatherstripped
D3.6	3R Hall	4'-3"	7'-0"	1 3/4"	Double Swing	Wood		-	-	-	N/A	N/A	-	-	
D3.7	3R Bathroom	2'-10"	7'-0"	1 3/4"	Single Swing	Wood		-	-	-	N/A	N/A	-	-	
D3.8	3R Bedroom	2'-10"	7'-0"	1 3/4"	Single Swing	Wood		-	-	-	N/A	N/A	-	-	
D3.9	3R Bedroom	4'-4"	7'-0"	1 3/4"	Sliding	Wood		-	-	-	N/A	N/A	-	-	
D3.10	3R Kitchen/Living	3'-7 3/4"	7'-11"	1 3/4"	Single Swing	Aluminum clad wood and glass		Anderson AEHD3680	0.28	0.16	0.35	-	<0.2		
Fourth Floor															
D4.0	4R Kitchen/Living	3'-11 3/4"	6'-10"	1 3/4"	Single Swing	Aluminum clad wood		Anderson AEHD3068	0.28	0.16	0.35	-	<0.2		
D4.1	4R Kitchen/Living	3'-0"	7'-0"	1 3/4"	Single Swing	Wood		90m FPI/SC	-	-	N/A	N/A	-	-	gasketed and weatherstripped
D4.2	4R Hall	4'-3"	7'-0"	1 3/4"	Double Swing	Wood		-	-	-	N/A	N/A	-	-	
D4.3	4R Bathroom	2'-10"	7'-0"	1 3/4"	Single Swing	Wood		-	-	-	N/A	N/A	-	-	
D4.4	4R Bedroom	4'-4"	7'-0"	1 3/4"	Sliding	Wood		-	-	-	N/A	N/A	-	-	
D4.5	4R Bedroom	2'-10"	7'-0"	1 3/4"	Single Swing	Wood		-	-	-	N/A	N/A	-	-	
D4.6	4R Kitchen/Living	3'-7 3/4"	7'-11"	1 3/4"	Single Swing	Aluminum clad wood and glass		Anderson AEHD3680	0.28	0.16	0.35	-	<0.2		
Roof															
D5.0	Common Roof	2'-9 3/4"	6'-10"	1 3/4"	Single Swing	Aluminum clad wood		Anderson AEHD2968	0.28	0.16	0.35	-	<0.2		gasketed and weatherstripped

NOTE: All fire rated doors to be gasketed and weatherstripped



1 Plan at lobby
SCALE: 1/2" = 1'-0"



2 Elevation at Mailboxes
SCALE: 1/2" = 1'-0"

Window Schedule

Home Story Name	ID#	Type	W	H	MFR	Series	Wood	Wt Finish	Glazing	U-Factor	SHGC	Air Leakage (CFM/F ²)
First Floor												
W1.1	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W1.2	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W1.3	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W1.4	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W1.5	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W1.6	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W3.4	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
Second Floor												
W2.1	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W2.2	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W2.3	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W2.4	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W2.5	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W2.6	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W2.7	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W3.4	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
Third Floor												
W3.1	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W3.2	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W3.3	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W3.4	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W3.5	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W3.6	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W3.7	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
Fourth Floor												
W4.1	Picture	3'-4 1/2"	7'-0"	Anderson	A series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.25	0.30	<0.2	
W4.2	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W4.3	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
W4.4	Double Hung	3'-6"	7'-5"	Anderson	E series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.17	<0.2	
Roof												
W5.0	Casement	2'-0"	2'-0"	Anderson	A series	Pine	Wd. paint primed	Dual Pane Low-E. W/heatlock	0.26	0.25	<0.2	
Skylights												
W5.1	Skylight - Fixed	6'-2"	2'-2"	Velux	FCM 2270				0.48	0.27	<0.1	
W5.2	Skylight - Fixed	6'-2"	2'-2"	Velux	FCM 2270				0.48	0.27	<0.1	
W5.3	Skylight - Fixed	6'-2"	2'-2"	Velux	FCM 2270				0.48	0.27	<0.1	

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Ambrosino Construction

Cyr Apollinar Garcia
APPROVED
Date: 05/06/2022

920 Metropolitan Avenue Brooklyn, NY 11211

Schedules

2014 NYC Building Code Analysis

CODE	NOTES
2014 NYC Building Code	
2014 NYC Plumbing Code	
2014 NYC Mechanical Code	
2020 NYC Energy Conservation Code	
New York State Multiple Dwelling Law	

2014 NYC BUILDING CODE SECTIONS

SECTION	DESCRIPTION	REQUIREMENT	PROVIDED
BC 310.1.2	Occupancy group	R-2: Multifamily Dwelling	R-2: Multifamily Dwelling
BC 503 - Table 503	Building height and area limitations	Types 1A, 1B, 1IA, 1IIA, IV Construction allowed	Type IB Construction provided
BC 601 - Table 601	Primary structural frame	2 Hr	2 Hr
	Bearing walls - interior	2Hr	2 Hr
	Bearing walls - exterior	2Hr	2 Hr
	Nonbearing walls and partitions - interior	0Hr	See plans
	Floor construction and secondary members	2Hr	2Hr
	Roof construction and secondary members	1Hr	1Hr
BC 602 - Table 602	Fire resistance rating of exterior walls	Per exception C. See Section 706.1.1 for party walls.	
BC 705.8 - Table 705.8	Maximum Area of Openings in Exterior Walls	Not required for unprotected openings in exterior walls that have a fire separation distance of 30' or greater and the building is equipped with automatic sprinkler system.	
BC 708.4	Shaft Enclosure - Fire Resistance	Shaft enclosures shall have a fire-resistance rating of not less than 2 hours where penetrating three stories or more and not less than 1 hour where penetrating fewer than 3 stories.	2 Hr Rated Shaft Enclosure Provided - Complies
BC 708.12.1	Smoke venting of stair and other closed shafts	All closed shafts, including vertical exit enclosures, having a floor area exceeding 4 square feet (0.37m ²) shall be provided with a smoke vent in accordance with Sections 708.12.1.1 through 708.12.1.3.	A 4sf window is being installed as the smoke vent
BC 708.12.1.1	Smoke vent construction	Smoke vents may be constructed as windows, louvers, skylights, vent ducts, or similar devices. Where a vent duct is installed, such vent ducts shall be enclosed by construction having the same fire-resistance rating as required for the shaft enclosure.	A 4sf window is being installed as the smoke vent
BC 708.12.1.3.2	Smoke vents located in an exterior wall	Where the exterior wall serves as part of a shaft enclosure or where a smoke vent duct penetrates the exterior wall of the building, no openings shall be located in the wall within a distance of 50 feet (15.24 m) vertically above the vent opening, nor within 2 feet (1524mm) on either side of the vent opening.	See Drawings - Complies
BC 1006.1.1.1	Minimum Door Width		See Drawings - Complies
BC 1006.1.1.3	Minimum Door Height		See Drawings - Complies
BC 1009.1	Minimum Stair Width		36 inches
BC 1009.2	Headroom	80" for Residential	80" provided
BC 1009.4.6.1	Sum of Treads & Risers	Per Exception 6.1: The sum of two risers plus one tread exclusive of nosing shall be not less than 24 inches nor more than 25 1/2 inches.	See Drawings - Complies
BC 1009.4.6.2	Dimensions of Treads & Risers	Per Exception 6.2: The maximum riser height shall be 7 3/4 inches and the minimum tread depth shall be 9.5 inches plus nosing.	See Drawings - Complies
BC 1009.7	Vertical Rise	A flight of stairs may not have a vertical rise greater than 12'	See Drawings - Complies
BC 1009.12	Handrail Quantity	One handrail for stairways within dwelling units	1 handrail provided
BC 1012.3.1	Handrail Type	Handrails should be either Type I or Type II	Handrail Type II provided, see drawings
BC 1012.12	Handrail Height	Handrail Mounting Height to be between 34" min and 38" max	Handrail mounted at 34", see drawings - complies
BC 1013.1	Guards	Guards required on open-sided walking surfaces	3'-6" Guard provided - Complies
BC 1014.4	Intervening public hall in R-2 occupancies	Per exception 1: No intervening public hall shall be required for any of the following... a building that complies with Item 4 of Section 1021.2	Complies: see note pertaining to BC 1021.2.4
BC 1021.2.4	Per Section 1021.2 Item 4: Buildings of Group R-2 occupancy where all of the following conditions are met:	4.1. The building does not exceed 4 stories 4.2. The building contains no more than three dwelling units per story	Complies: 4 stories provided Complies: no more than 2 dwelling units per story

SECTION	DESCRIPTION	REQUIREMENT	PROVIDED
		4.3: The building is of construction Type I or II 4.4: The building does not exceed 2,500 SF per story	Complies: construction Type IB Complies: maximum 1,625 SF per story
		4.5: Each dwelling unit has at least one window facing the street or facing a lawful yard with open, unobstructed, and direct access to the street.	Complies
		4.6: The stairway extends to the roof surface through a stairway bulkhead complying with Section 1509.2 provided the roof has a slope not steeper than 20 degrees.	Complies
BC 1509.2	Bulkheads & penthouses	Per Section 1509.2.1: Bulkheads and penthouses shall be constructed with walls, floors, and roof as required for the building. Exception 1: Bulkheads on buildings of Type I and II construction. The exterior walls and roofs of such... with a fire separation distance of more than 5 feet and less than 30 feet shall be of at least 1-hour fire-resistance-rated noncombustible construction. Walls and roofs with a fire separation distance of 30 feet or greater shall be of noncombustible construction. Interior framing and walls shall be of noncombustible construction.	Complies
BC 1203.4.1.1	Habitable Spaces - Minimum Opening (Ventilation)	The minimum operable area to the outdoors shall be 5 percent of the floor area of the habitable space being ventilated	See Drawings - Complies
BC 1203.4.1.2.4	Maximum Depth of Room	30 feet, unless window opens onto a court complying with Section 1206.	See Drawings - Complies
BC 1205.2.1	Habitable Spaces - Minimum Opening (Natural Light)	The minimum net glazed area shall not be less than 10 percent of the floor area of the room served. Every opening providing required natural light shall be at least 12 square feet of glazed area.	See Drawings - Complies
BC 1205.2.7	Height of Glazed Areas	Per 1205.2.7.1 Only that portion of glazed areas higher than 30 inches above the floor shall be considered as providing the required natural lighting.	See Drawings - Complies



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920 Metropolitan Avenue

Ambrosino Construction



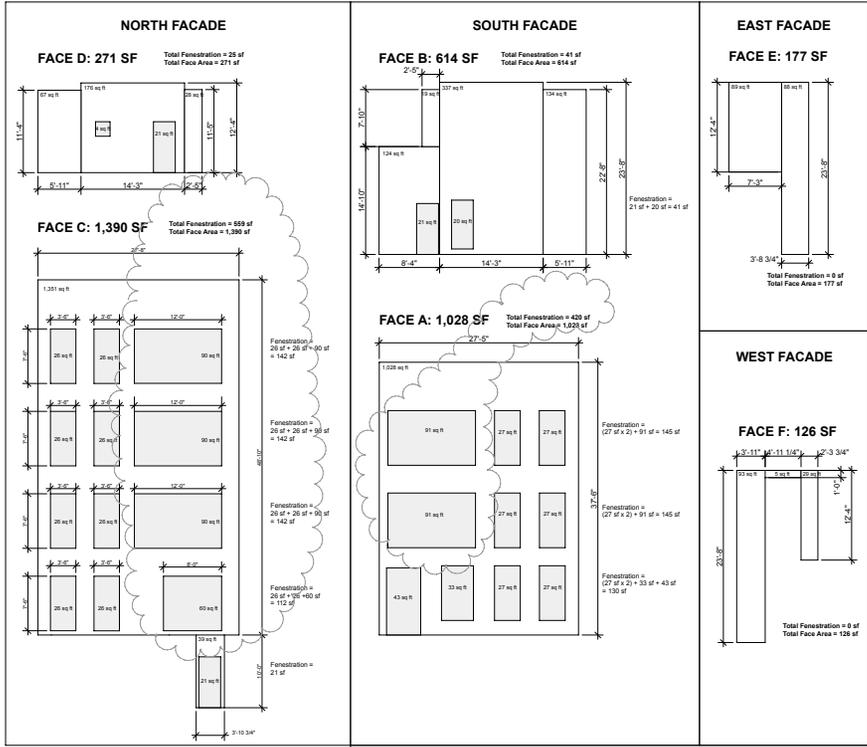
920 Metropolitan Avenue Brooklyn, NY 11211

Building Code Analysis



GN-104.00

Sheet 5 of 17
DOB Application #900715812-11



Facade Area Calculations by Face:

North Facade:
 Face X = $21 \cdot 10 \cdot 34'' + 13 \cdot 0 \cdot 12'' = 1,028 \text{ SF}$
 Face Y = $(5 \cdot 11'' \times 22 \cdot 81'' + 14 \cdot 3'' \times 23 \cdot 81'' + 8 \cdot 2'' \times 14 \cdot 10'' + 2 \cdot 5'' \times 7 \cdot 10'') = 614 \text{ SF}$

South Facade:
 Face X = $(27 \cdot 8'' \times 48 \cdot 10'' + 3 \cdot 10 \cdot 34'' \times 10 \cdot 0'') = 1,390 \text{ SF}$
 Face Y = $(2 \cdot 2'' \times 11 \cdot 51'' + 14 \cdot 3'' \times 12 \cdot 41'' + 5 \cdot 11'' \times 11 \cdot 41'') = 271 \text{ SF}$

East Facade:
 Face X = $(7 \cdot 3'' \times 17 \cdot 41'' + 3 \cdot 10 \cdot 34'' \times 23 \cdot 81'') = 177 \text{ SF}$
 Face Y = $(3 \cdot 11'' \times 23 \cdot 81'' + 14 \cdot 1 \cdot 14'' \times 1 \cdot 07'' + 2 \cdot 3 \cdot 34'' \times 12 \cdot 41'') = 126 \text{ SF}$

West Facade:
 Face X = $(27 \cdot 8'' \times 21'') + 91 \text{ sf} = 145 \text{ sf}$
 Face Y = $(27 \cdot 8'' \times 21'') + 91 \text{ sf} = 145 \text{ sf}$
 Face Z = $(27 \cdot 8'' \times 21'') + 91 \text{ sf} + 43 \text{ sf} = 130 \text{ sf}$

Total Vertical Fenestration: 1,048 SF
Total Facade Area: 3,698 SF

1,048sf = 28% of Total Facade Area
 28% < 30% = complies (Per 20 NYCECC C402.4.1)

Total Skylight Area: 22 SF
 38sf = 2.4% of Total Roof Area
 2.4% < 3% = complies (Per 20 NYCECC C402.4.1)

1 Fenestration & Opaque Area Calculations
 SCALE: 1/8" = 1'-0"

CLEAR FIELD Thermal Bridges

FTB ID	Assembly Thermal Bridge Description	Assembly U-Factor (Energy Analysis)	Section Detail Location
FTB.1	Steel framed wall - blown cellulose insulation, 2 layer Securock sheathing, polyiso rigid insulation and brick veneer.	-	Wall type 2D GN-101 Elevations: VEN-100
FTB.2	Steel framed wall - blown-in cellulose insulation, Securock sheathing, EPS insulation, EPS finish	-	Wall type CC GN-101 Elevations: VEN-100
FTB.3	Concrete roof deck with R-35ci	-	Roof elevations: 400-400

DOXY Thermal Bridges

FTB ID	Assembly Thermal Bridge Description	Area (sq. inches)	Number of Occurrence	Section Detail Location
FTB.1	Rear factory structural members	48	1	2nd-400 and elevation 218-200

UNEXAM Thermal Bridges

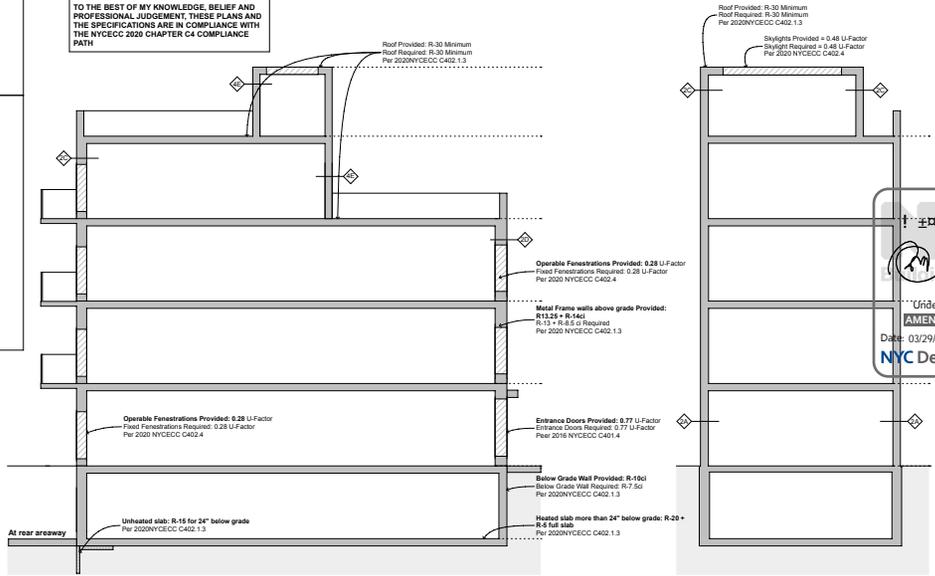
LTB ID	Type of Thermal Bridge	Value (Butler U-F)	Value Source/Calculation	U-Factor	Length (ft)	Assembly U-Factor (Energy Analysis)	Section Detail Location
LTB.1	Fenestration Parameter	0.32	Default value from Table C402.6	769	10	-	Elevations: VEN-100
LTB.2	Roof Slope	0.41	Default value from Table C402.6	10	10	-	Elevations: 400-400

2 Thermal Bridges
 SCALE: 1/8" = 1'-0"

2020 NYCECC Commercial Envelope Tabular Analysis

NYCECC Clause	Provision	Item Description	Code Prescriptive Value (ECV)	Proposed Design Value	Supporting Documentation
C402.1.3, C402.1.3, Tables C402.1.3, C402.1.4 and Section C402.2	Roof Assembly - Insulation entirely above roof deck	New steel and concrete roof deck	Minimum R-30ci	Roof: 3" EPS R-35 continuous insulation above deck	L/A-100 (4th Floor Plan), 2/A-100 (Roof) Plan 1 and 2 and A-300 (Building Sections) 2, 3, 4, 5 and A-300 (Interior Details)
C402.1.3, C402.1.4 and Section C402.2	Walls, above-grade: Mass Framed	Steel framed wall, 2x6 framing 16" O.C. with brick veneer	Minimum R-13 + R-8.5ci	R-24 blown-in cellulose between framing R-13.25 or installed on the exterior of the building	Exterior Wall Type 2D; GN-102 (Wall Types) and A-100; A-102 and A-102 (Floor Plans)
C402.1.3, C402.1.4 and Section C402.2	Walls, above-grade: Mass Framed	Steel framed wall, 2x6 framing 16" O.C. with brick veneer	Minimum R-13 + R-8.5ci	R-24 blown-in cellulose between framing R-13.25 or installed on the exterior of the building	Exterior Wall Type 2C; GN-103 (Wall Types) and A-100; A-102 and A-102 (Floor Plans)
Tables C402.1.3, C402.1.4 and Section C402.2	Below-grade walls	Thermal insulation on the exterior of new basement wall.	Minimum R-10ci	2" Extruded Polystyrene (XPS) - R-10 installed on exterior of walls.	Exterior Wall Types 1A and 1B; GN-103 (Basement Floor Plan) L/A-100 and A/A-403 Foundation Details
C402.1.3	Unheated Slab	Slab at rear arrearway	Minimum R-15 for 2" finish	Unheated slab	See Drawing 1 on EN-101
C402.1.3	Continuous Insulation	Unheated Slab	Unheated Slab	Unheated Slab	See Drawing 1 on EN-101
C402.1, Table C402.4	Fenestration (Prescriptive)	Fenestration requirements	Elevation showing 95% demarcation	Windows and doors - installed below 95 feet U-0.26, SHGC - 0.17, Air Leakage - 0.2 Sightsights - 0.48, SHGC - 0.27, air leakage - 0.10 Entrance Door U-0.45, SHGC - 0.15, air leakage - 1.00 (l/m²)	EN-100 (Windows) showing windows and doors below 95' demarcation and Window and Door Schedule EN-103
C402.4.1	Maximum area	Complete test window to wall ratio	Complete test window to wall ratio	10% Proposed	See drawing 1 on EN-100
C402.5	Air leakage thermal envelope (Mandatory)	Air leakage thermal envelope	The thermal envelope of the building must comply with Sections C402.5.1 through C402.5.1.2.	Per C402.4.1.3 no testing is required as this building is less than 30,000 sq ft.	See drawing 1 and 2 on EN-102 Air Barrier Continuity
C402.5.1	Air barriers	Air barrier material	A continuous air barrier for the opaque building envelope shall comply with Section C402.5.1.2.1 through C402.5.1.2.2.	Continuous Barrier: All vertical surfaces Green Products "Therma Barrier" self-adhesive air and vapor barrier applied to sheathing. Horizontal surfaces roofing membrane.	See drawing 1 and 2 on EN-102 Air Barrier Continuity
C402.5.4	Doors and access openings to shafts, chutes, stairways, and elevator lobbies	Sample test: Doors from corridor to stairwell & elevator shaft	Access openings, from conditioned space to shafts, chutes, stairways and elevator lobbies shall meet C402.5.2 or be gasketed, weatherstripped, or sealed.	All doors from corridor to stairways to be gasketed, weatherstripped or sealed.	See notes in Door Schedule for all Stairway and Corridor Doors sheet GN-103.
C402.5.7	Vestibules	Building Entrance vestibule	Vestibule provided of door separating conditioned space from the exterior.	New 7' deep vestibule @ building entrance.	See Floor Plan A-100 and Door Schedule on GN-100
C402.5.8	Recessed lighting	Recessed luminaires in the thermal envelope to be weather sealed.	Recessed luminaires installed in the building thermal envelope shall be sealed to maximum air leakage of 0.10.	Recessed luminaires in the roof ceiling will be IC rated and sealed to less than 200 ft².	See lighting plan and schedule on EN-101
C402.6	Thermal bridges (Mandatory)	Thermal bridges	Clear field thermal bridges are identified on drawings and pre-calculated assembly values are from ASHRAE 90.1 Appendix A. All other thermal bridges greater than 80 sq ft are identified. Unexamined thermal bridges are outlined in tabular format including each linear thermal bridge type, the aggregate length for each, the relevant detail and cross section through each thermal bridge, and the location for each thermal bridge.	Clear field thermal bridges - See Table 2 on sheet EN-100. All other thermal bridges - thermal bridges are documented. See Table 2 on sheet EN-100. Unexamined thermal bridges - See Table 2 on sheet EN100.	See 2 on EN-100 for tabular format of thermal bridges, details on sheets A-400 and A-401.
C402.3.2(1)	Interior Lighting Power Allowance: Building Method	Power Allowance	Total interior lighting power allowance (watts)	Per 2020 NYCECC C402.4	
C402.2	More efficient HVAC equipment performance	Additional Efficiency Package	Equipment shall exceed the minimum efficiency requirement listed in Table C402.2.2(2) through C402.3.2(4) by 10 Percent	VRF Heat Pump systems are specified.	See Mechanical Sizing

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT THESE PLANS AND THE SPECIFICATIONS ARE IN COMPLIANCE WITH THE NYCECC 2020 CHAPTER C4 COMPLIANCE PATH



4 Thermal Barrier Diagram N/S
 SCALE: 1/8" = 1'-0"

3 Thermal Barrier Diagram E/W
 SCALE: 1/8" = 1'-0"

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P/A: 1.24.23
 EN Revision: 08.18.22
 EN Revision: 08.04.22
 EN Revision: 06.09.22
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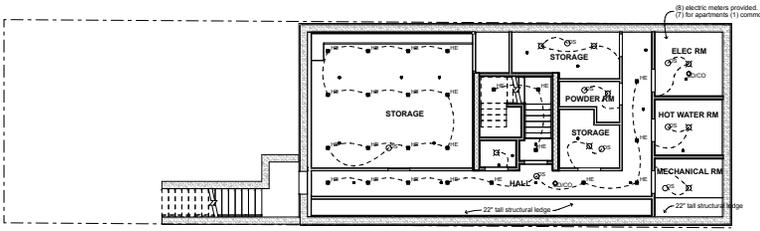
920 Metropolitan Avenue
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Under Directive 2 of 1975
AMENDED APPLICATION
 Date: 03/29/2023
NYC Development Hub

920 Metropolitan Avenue Brooklyn, NY 11211

Energy Code Compliance & Wall Assemblies

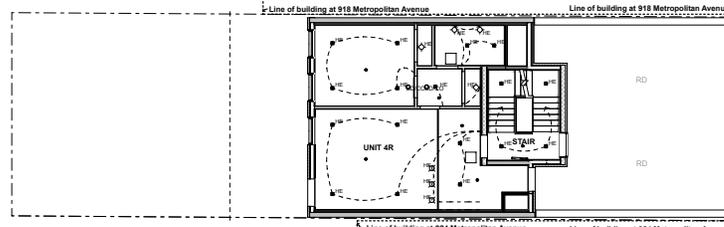
EN-100.01
 Sheet 27 of 27
 DOB Application #900715872-P3



1 Cellar Lighting Diagram
SCALE: 1/8" = 1'-0"

Lighting/Power control requirements Per C405.2:
Hall: Occupancy Sensors with Manual On
Storage: Occupancy Sensors with Manual On
Hot Water Room, Electrical Room & Mechanical Rooms: Occupancy Sensors with Manual On
Powder Rm: Occupancy Sensor with Manual On

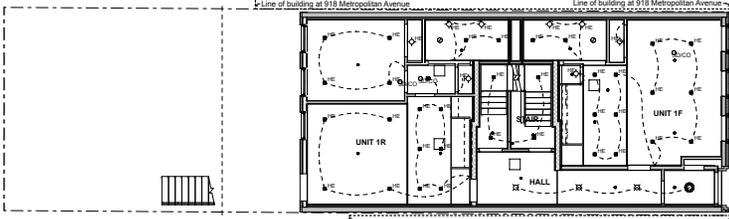
TOTAL FIXTURES: 32
TOTAL HE FIXTURES: 24



5 Fourth Floor Lighting Diagram
SCALE: 1/8" = 1'-0"

Lighting/Power control requirements Per C405.2:
Interior Exit Stairway and exit passageway: No Controls, continuously lit
Dwelling: Manual Control

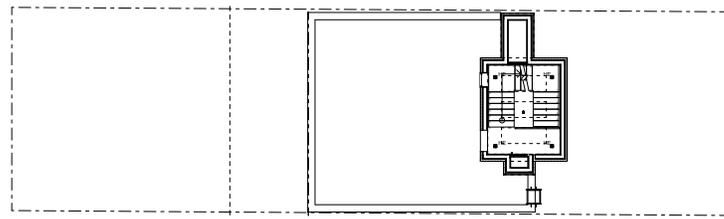
TOTAL FIXTURES: 24
TOTAL HE FIXTURES: 24



2 First Floor Lighting Diagram
SCALE: 1/8" = 1'-0"

Lighting/Power control requirements Per C405.2:
Interior Exit Stairway and exit passageway: No Controls, continuously lit
Dwelling: Manual Control

TOTAL FIXTURES: 47
TOTAL HE FIXTURES: 43

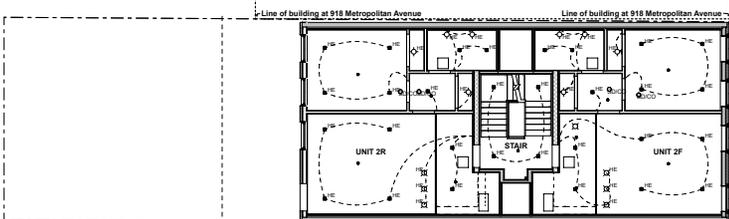


6 Roof Lighting Diagram
SCALE: 1/8" = 1'-0"

Lighting/Power control requirements Per C405.2:
Interior Exit Stairway and exit passageway: No Controls, continuously lit

TOTAL FIXTURES: 4
TOTAL HE FIXTURES: 4

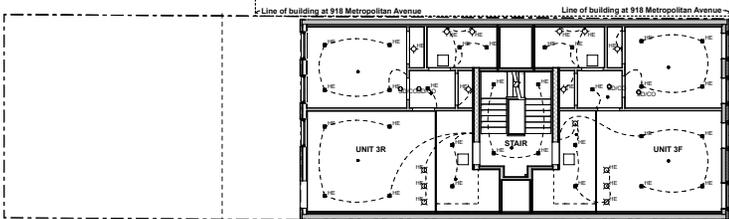
'Functional Testing of Lighting Controls' is required



3 Second Floor Lighting Diagram
SCALE: 1/8" = 1'-0"

Lighting/Power control requirements Per C405.2:
Interior Exit Stairway: No Controls, continuously lit
Dwelling: Manual Control

TOTAL FIXTURES: 44
TOTAL HE FIXTURES: 44



4 Third Floor Lighting Diagram
SCALE: 1/8" = 1'-0"

Lighting/Power control requirements Per C405.2:
Interior Exit Stairway: No Controls, continuously lit
Dwelling: Manual Control

TOTAL FIXTURES: 44
TOTAL HE FIXTURES: 44

Lighting Legend

	Wall mounted decorative fixture Lamp: LED 12W
	Surface mounted decorative fixture Lamp: LED 12W
	Recessed downlight Lamp: LED 12W
	Combination hardwired smoke and carbon monoxide detector w/ battery backup
	Occupancy Sensor

Interior Lighting Power Allowances:	LPD watts/sq.ft	Area sq.ft	Max Allowance	Watts Proposed
Stairwell	0.50	607	303.5 Watts	276 Watts
Corridor	0.58	580	319 Watts	198 Watts
Storage	0.44	413	181.7 Watts	144 Watts
Electrical/mechanical	0.39	362	141.2 Watts	36 Watts

2020 NYCECC Progress Inspections

Inspection Test	Periodic (minimum)	Reference Standard (see EEC Chapter C4 or Other Criteria)	ICC or Other Criteria	ICC or Other Criteria	As required during construction	Approved construction documents: ASTM E2178, ASTM E2175, ASTM E1077, ASTM E779, ASTM E263.	C405.5, ASHRAE 90.1 - 3.4.3.1, 3.4.3.5, 5.9
HA Envelope Inspections Protection of exposed foundation insulation: Insulation must be visually inspected to verify proper protection where applied to the exterior of basement or cellar walls, crawl-space walls and/or the perimeter of sub-grade floors. Insulation placement and R-values: Installed insulation for each component of the conditioned space envelope and at junctions between components, including thermal bridges and sealed air infiltration, must be visually inspected to ensure that the R-values conform to the R-values identified in the construction documents and that the insulation is properly installed. Certification for installed insulation also be visually inspected. Fenestration and door U-factor and product ratings: U-factor, SHGC, and VT values of installed fenestration must be visually inspected for conformance with the U-factor, SHGC and VT values identified in the construction drawings by verifying the manufacturer's NFRC labels on, where not labeled using the ratings in EEC Tables C401.3.1(1) and (2). Fenestration air leakage: Windows and door assemblies, except one-half windows and door must be visually inspected to verify that installed assemblies are listed and labeled by the manufacturer to the referenced standard. For certain wall, storefront glazing, commercial entrance doors and revolving doors, the listing, reports, must be reviewed to verify that the installed assembly complies with the standard cited in the approval plan. Weatherstrips at loading docks must be visually inspected.	As required during construction	Approved construction documents, ASTM C772	C401.2.1, ASHRAE 90.1 - 3.4.3.1, 5.9	ICC Air barrier visual inspection: Openings and penetrations in the building envelope, including wall fenestration and doors, must be visually inspected to verify that a continuous air barrier around the envelope forms an air-tight enclosure. The progress inspector must visually inspect to verify that materials and/or assemblies have been tested and meet the requirements of the respective standards, or must observe the testing of the building and/or assemblies and verify that the building and/or assemblies meet the requirements of the standard(s) cited in the approval plans.	As required during construction	Approved construction documents	C405.5, ASHRAE 90.1 - 3.4.3.1, 3.4.3.5, 5.9
HA2	As required during construction	Approved construction documents	C401.1, C402.2, C402.1, C402.3, C402.4, C406, ASHRAE 90.1 - 5.5, 5.6, 5.5.5.11 or Appendix G	ICC Electrical Power and Lighting Systems Metering: The presence and operation of all required meters for monitoring total electrical energy usage and total fuel use, system energy usage, tenant energy usage or electrical energy usage in the building, as mandated by dividing units, or its tenant space must be verified by visual inspection. Lighting in dwelling units: Lamps in permanently installed lighting fixtures must be visually inspected to verify compliance with high-efficiency requirements. Interior lighting power: Installed lighting must be verified for compliance with energy efficiency under the lighting power allowance by visual inspection of fixtures, lamps, ballasts and transformers. Exterior lighting power: Installed lighting must be verified for compliance with energy efficiency under the lighting power allowance by visual inspection of fixtures, lamps, ballasts and relevant transformers.	Prior to final electrical and construction inspection	Approved construction documents	C405.5, C405.11, C405.12, ASHRAE 90.1 - 3.4.3.1, 3.4.3.5, 5.9, 5.6, 5.5.5.11, 5.9, 5.6, 5.5.5.11 or Appendix G
HA3	As required during construction	Approved construction documents: NRC 100, NRC 200, NRC 300, ANSI/IESNA 105, ASTM E972	C401.1, C401.3, C402.1.4, C402.4, C406, ASHRAE 90.1 - 3.4.2, 5.5, 5.6, 5.5.5.11 or Appendix G	ICC Electrical Power and Lighting Systems Metering: The presence and operation of all required meters for monitoring total electrical energy usage and total fuel use, system energy usage, tenant energy usage or electrical energy usage in the building, as mandated by dividing units, or its tenant space must be verified by visual inspection. Lighting in dwelling units: Lamps in permanently installed lighting fixtures must be visually inspected to verify compliance with high-efficiency requirements. Interior lighting power: Installed lighting must be verified for compliance with energy efficiency under the lighting power allowance by visual inspection of fixtures, lamps, ballasts and transformers. Exterior lighting power: Installed lighting must be verified for compliance with energy efficiency under the lighting power allowance by visual inspection of fixtures, lamps, ballasts and relevant transformers.	Prior to final electrical and construction inspection	Approved construction documents	C405.5, C405.11, C405.12, ASHRAE 90.1 - 3.4.3.1, 3.4.3.5, 5.9, 5.6, 5.5.5.11, 5.9, 5.6, 5.5.5.11 or Appendix G
HA4	As required during construction	NRC 400, ANSI/IESNA 105	C402.3.2, C402.3.6, ASHRAE 90.1 - 3.4.3.2, 3.4.3.3, 3.4.3.2, 5.9	ICC Electrical Power and Lighting Systems Metering: The presence and operation of all required meters for monitoring total electrical energy usage and total fuel use, system energy usage, tenant energy usage or electrical energy usage in the building, as mandated by dividing units, or its tenant space must be verified by visual inspection. Lighting in dwelling units: Lamps in permanently installed lighting fixtures must be visually inspected to verify compliance with high-efficiency requirements. Interior lighting power: Installed lighting must be verified for compliance with energy efficiency under the lighting power allowance by visual inspection of fixtures, lamps, ballasts and transformers. Exterior lighting power: Installed lighting must be verified for compliance with energy efficiency under the lighting power allowance by visual inspection of fixtures, lamps, ballasts and relevant transformers.	Prior to final electrical and construction inspection	Approved construction documents	C405.5, C405.11, C405.12, ASHRAE 90.1 - 3.4.3.1, 3.4.3.5, 5.9, 5.6, 5.5.5.11, 5.9, 5.6, 5.5.5.11 or Appendix G
HA5	Prior to final construction inspection	Approved construction documents	C402.4, ASHRAE 90.1 - 5.4, 5.5.4, 5.6, 5.9, 5.11 or Appendix G	ICC Electrical Power and Lighting Systems Metering: The presence and operation of all required meters for monitoring total electrical energy usage and total fuel use, system energy usage, tenant energy usage or electrical energy usage in the building, as mandated by dividing units, or its tenant space must be verified by visual inspection. Lighting in dwelling units: Lamps in permanently installed lighting fixtures must be visually inspected to verify compliance with high-efficiency requirements. Interior lighting power: Installed lighting must be verified for compliance with energy efficiency under the lighting power allowance by visual inspection of fixtures, lamps, ballasts and transformers. Exterior lighting power: Installed lighting must be verified for compliance with energy efficiency under the lighting power allowance by visual inspection of fixtures, lamps, ballasts and relevant transformers.	Prior to final electrical and construction inspection	Approved construction documents	C405.5, C405.11, C405.12, ASHRAE 90.1 - 3.4.3.1, 3.4.3.5, 5.9, 5.6, 5.5.5.11, 5.9, 5.6, 5.5.5.11 or Appendix G

ICC	Lighting controls: Each type of required lighting controls including:	Prior to final electrical and construction inspection	Approved construction documents, including control system narrative	C405.2, C406, ASHRAE 90.1 - 3.4.1, 3.4.2, 3.7, Appendix I
ICC	<ul style="list-style-type: none"> occupant sensors manual override lighting controls light-reduction controls automatic lighting shut-off daylight zone controls shading zone controls exterior lighting controls egress illumination controls 	Prior to final electrical and construction inspection	Approved construction documents	C405.2, C406, ASHRAE 90.1 - 3.4.1, 3.4.2, 3.7, Appendix I
ICC	<ul style="list-style-type: none"> Electric meters and elevators: Where required by the construction documents for energy code compliance, meter listing or label be visually inspected to verify that they comply with the respective energy requirements in the construction documents. Electricians and installers must be inspected for compliance with representative duty requirements. 	Prior to final electrical and construction inspection	Approved construction documents	C405.5, C405.6, C405.7, C405.9, C405.8, ASHRAE 90.1 - 4.4.4, 10.4, 10.8

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EN Revision: 08.18.22
EN Revision: 06.09.22
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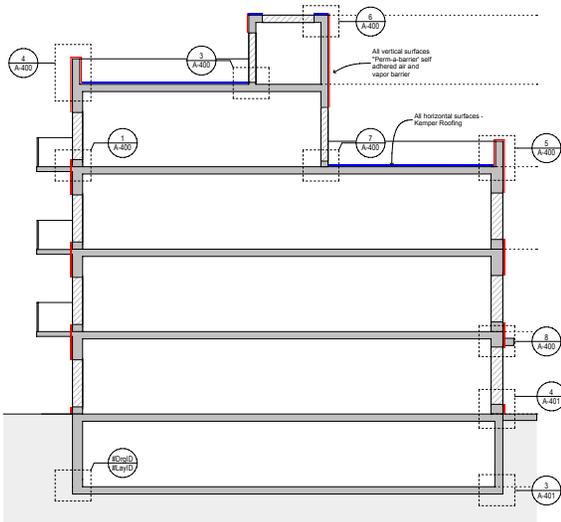
Ambrosio Construction

Cyr Apollinar Garcia
APPROVED
Date: 05/06/2022

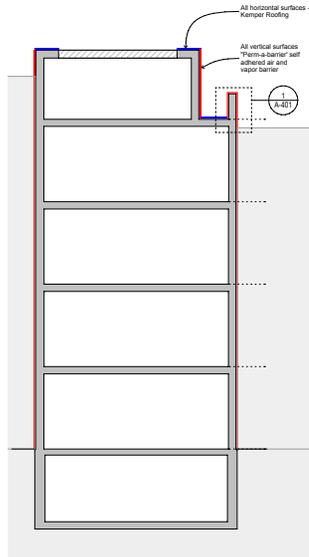
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Energy Code Compliance

EN-101.00
Sheet 8 of 17
DOB Application #900715872-11



1 Air Barrier Continuity Section E/W
SCALE: 1/8" = 1'-0"



2 Air Barrier Continuity Section E/W
SCALE: 1/8" = 1'-0"

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Energy Code Compliance



EN-102.00

Sheet 9 of 17
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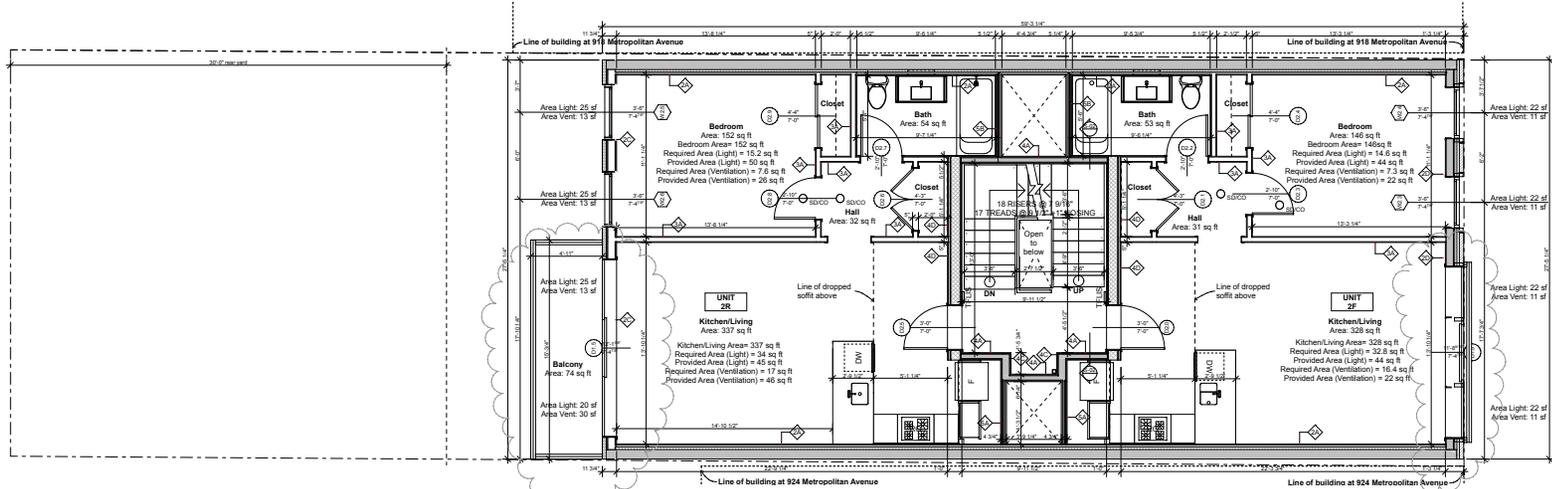
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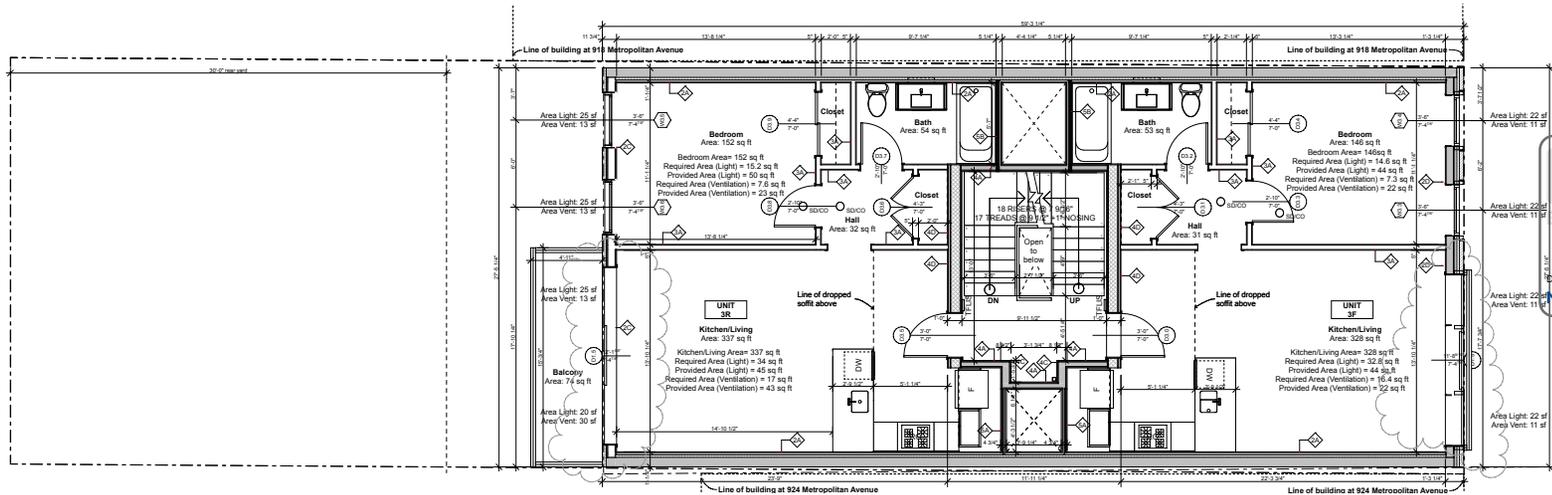
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Legend

- EP Electrical panel
- SD/CO Smoke & carbon monoxide detector
- TX Toilet exhaust duct
- KX Kitchen exhaust duct
- FPSC Fire-rated self-closing door
- SP Sprinkler standpipe
- AD Area Drain
- FD Floor Drain
- RD Roof Drain
- ◇ Wall Type (See Wall Type Details and fire rating)
- Window size indicator
"all height is measured above finished floor"
- Door size indicator
- New wall. Refer to Wall tag reference for details
- ▨ New rated wall. Refer to Wall tag reference for details
- TFLIS Tactile Floor Level Identification Sign complying with ICC A117.1



1 Second Floor Plan
SCALE: 1/4" = 1'-0"



2 Third Floor Plan
SCALE: 1/4" = 1'-0"

PM: 1.24.23
For Objectives 6.16.22
For Objectives 6.19.22
For Objectives 6.23.22
For Filing: 5.18.22

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920 Metropolitan Avenue
Amrosino Construction

APPROVED
Under Directive 2 of 2015
AMENDED APPLICATION

Date: 03/29/2023
NYC Development Hub

920 Metropolitan Avenue Brooklyn, NY 11211

Second & Third Floor Plan



A-101.01

Sheet 29 of 37
DOB Application #800715812-P3

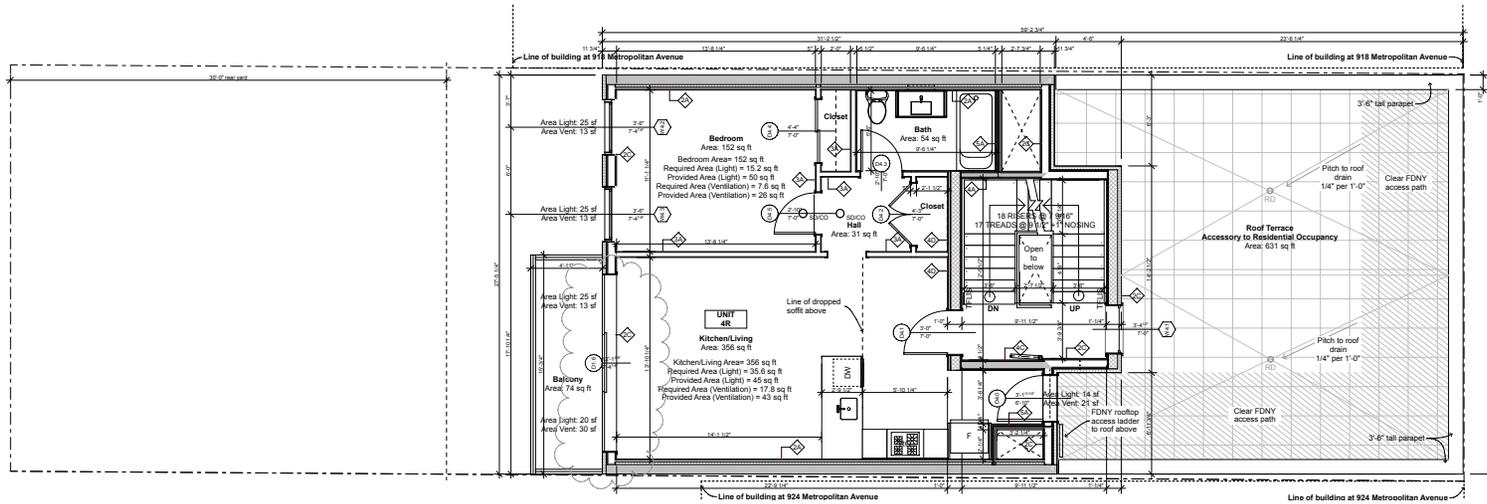
JOSEPH
VANCE

ARCHITECTS

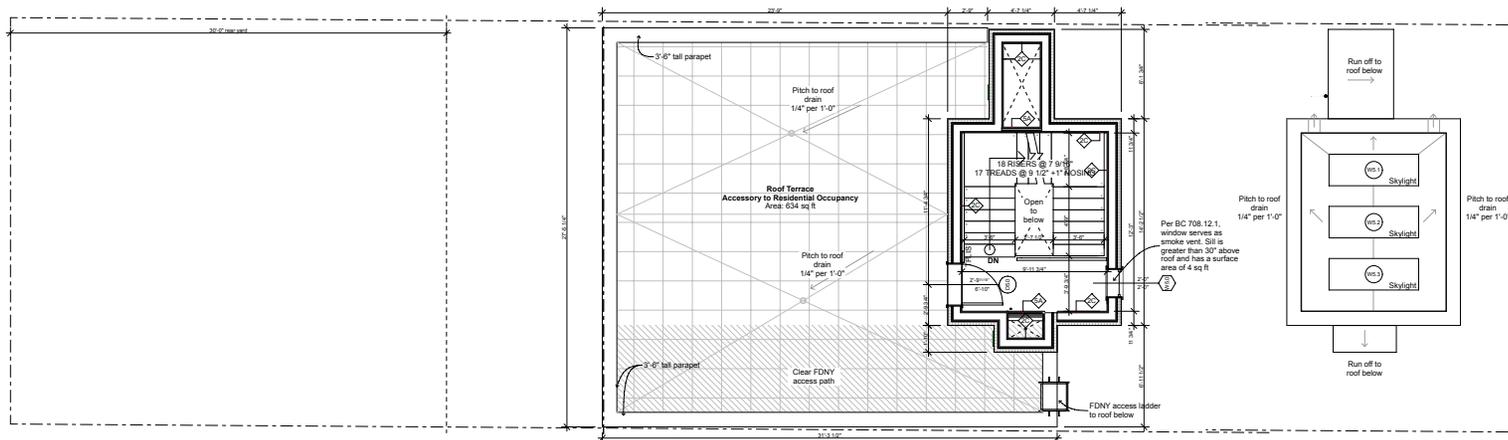
111 West 17th Street, New York, NY 10011
(212) 645-1278 www.jvarchitects.com

Legend

- EP Electrical panel
- SDC/CO Smoke & carbon monoxide detector
- TX Toilet exhaust duct
- KX Kitchen exhaust duct
- FPSC Fire-rated self-closing door
- SP Sprinkler standpipe
- AD Area Drain
- FD Floor Drain
- RD Roof Drain
- ◇ Wall Type (See Wall Type Details and fire rating)
- △ Window size indicator (all height is measured above finished floor)
- Door size indicator
- ▬ New wall. Refer to Wall tag reference for details
- ▨ New rated wall. Refer to Wall tag reference for details
- TFLIS Tactile Floor Level Identification Sign complying with ICC A117.1



1 Fourth Floor Plan
SCALE: 1/4" = 1'-0"



2 Roof Plan
SCALE: 1/4" = 1'-0"

3 Bulkhead Roof
SCALE: 1/4" = 1'-0"

PM: 1.24.23
For Objections: 8.23.22
For Objections: 8.16.22
For Objections: 8.10.22
For Objections: 6.23.22
For Filing: 5.10.22

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1 + ps © JVA 2023
830 Metropolitan Avenue
Approxima Construction

APPROVED
Under Directive 2 of 2075
AMENDED APPLICATION

Date: 03/29/2023
NYC Development Hub

920 Metropolitan Avenue Brooklyn, NY 11211

Fourth Floor Plan & Roof Plan



A-102.01

Sheet 36 of 17
DOB Application #800715872-P3

Lighting Legend

All fixtures are LED. Drivers provided; ballasts not applicable

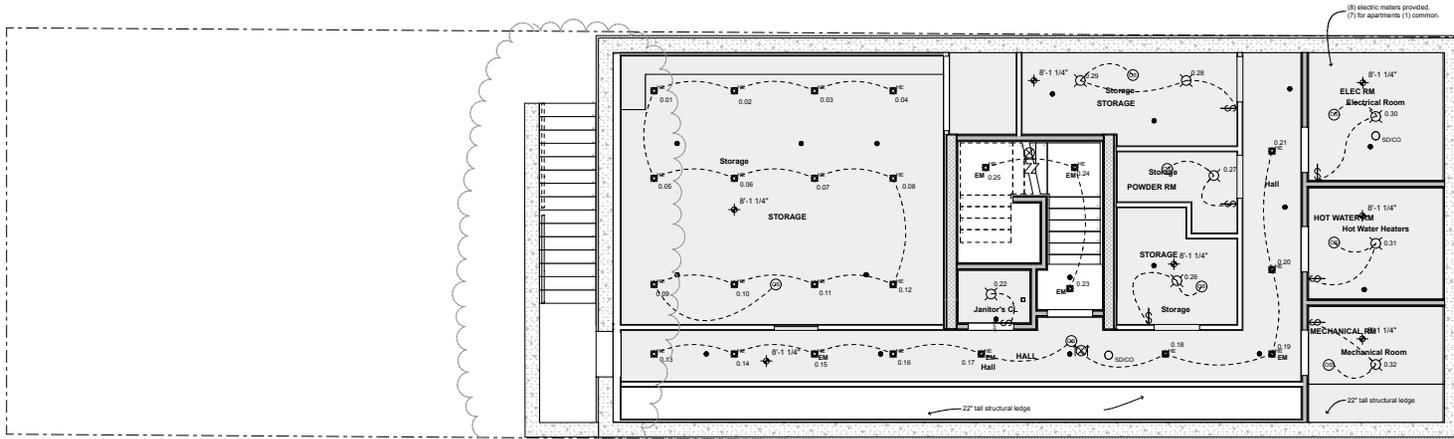
	Surface Mounted Ceiling Light Lamp: 12W
	Recessed Downlight Lamp: 12W
	Bathroom Sconce Lamp: 12W
	Combination hardwired smoke and Carbon monoxide detector with battery backup
	Concealed sprinkler head. See Sprinkler Dwg for dets.
	Occupancy Sensor
	High Efficacy Fixture
	Emergency illumination fixture. Fixture must provide 1 foot candle min and equipped with 90 minute battery pack or ballast.
	Exit sign. Arrow points to direction of exit.

2020 NYECC Note:

Per G465.1 Exception: Interior Lighting requirements comply with R404.1. Minimum 90% of permanently installed lamps to be high efficacy.

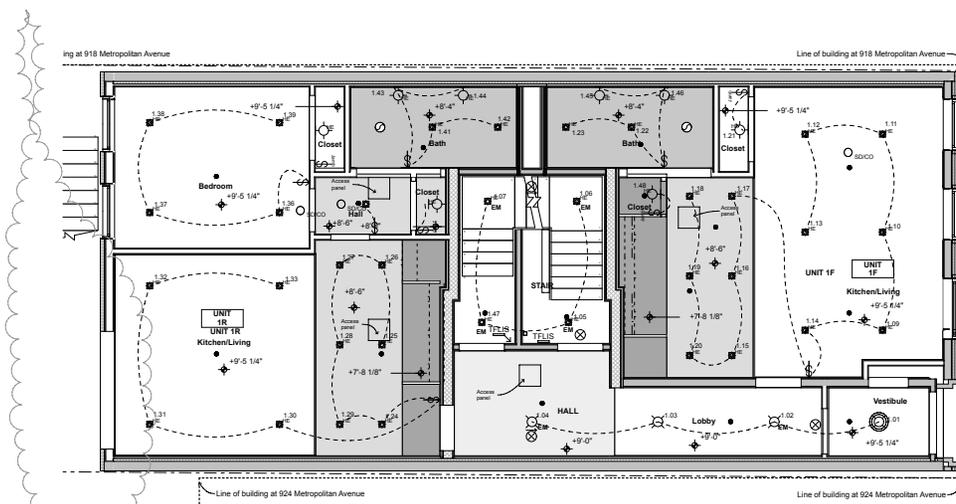
Total Fixtures = 195
Total Fixtures (High Efficacy) = 183

93.8% of fixtures are high efficacy (complies)
This fixture must be IC rated, have an air leakage rating of less than 20lm and must be sealed to the gypsum board ceiling with a gasket or caulk.



1 Cellar RCP
SCALE: 1/4" = 1'-0"

TOTAL FIXTURES: 90
TOTAL HE FIXTURES: 24



2 First Floor RCP
SCALE: 1/4" = 1'-0"

TOTAL FIXTURES: 46
TOTAL HE FIXTURES: 38



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PAM 1.24.23
For Objectives 8.30.22
For Objectives 8.16.22
For Objectives 8.10.22
For Objectives 6.23.22
For Filing: 5.10.22

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920 Metropolitan Avenue
Amending Submittal

APPROVED
Under Directive 2 of 3975
AMENDED APPLICATION
Date: 03/29/2023
NYC Development Hub

920 Metropolitan Avenue Brooklyn, NY 11211

Cellar & First Floor RCP



A-103.01

Sheet 31 of 37
DOB Application #900715872-P3

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VANCE

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(212) 645-1278 • www.jvarchitects.com

Lighting Legend

All fixtures are LED. Drivers provided; ballasts not applicable

	Surface Mounted Ceiling Light Lamp: 12W
	Recessed Downlight Lamp: 12W
	Bathroom Sconce Lamp: 12W
	Combination hardwired smoke and Carbon monoxide detector with battery backup
	Concealed sprinkler head. See Sprinkler Dwg's for dets.
	Occupancy Sensor
	High Efficacy Fixture
	Emergency illumination fixture. Fixture must provide 1 foot candle min and equipped with 90 minute battery pack or ballast.
	Exit sign. Arrow points to direction of exit.

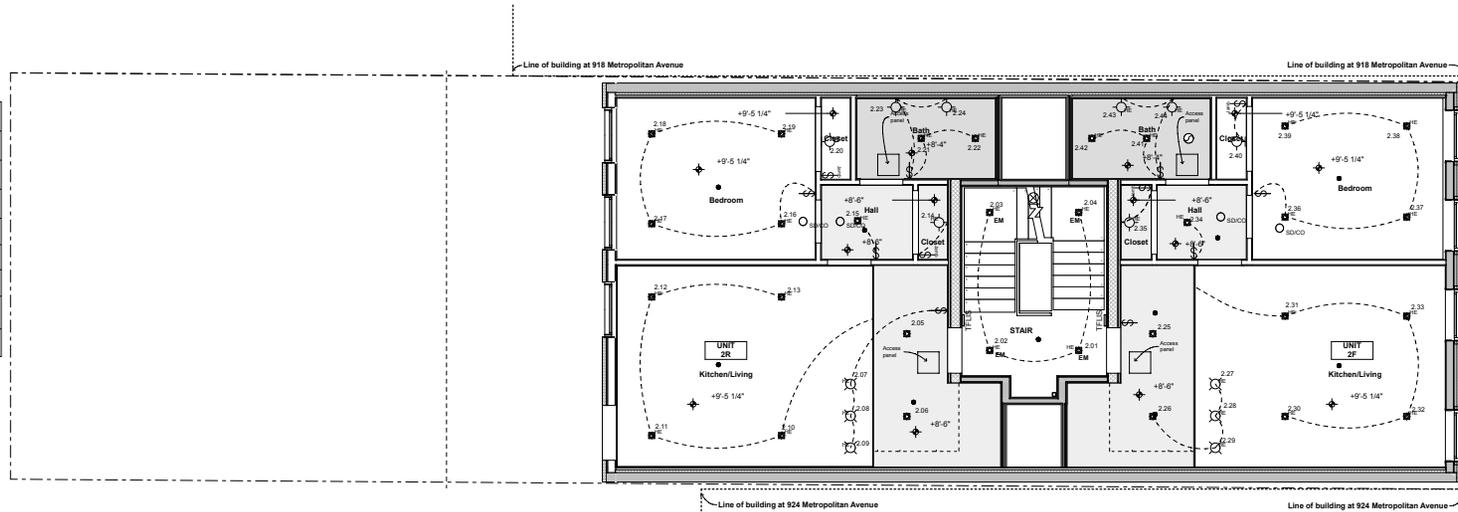
2020 NYECC Note:

Per 2405.1 Exception: Interior Lighting requirements comply with R403.4.1. Minimum 90% of permanently installed lamps to be high efficacy.

Total Fixtures = 195

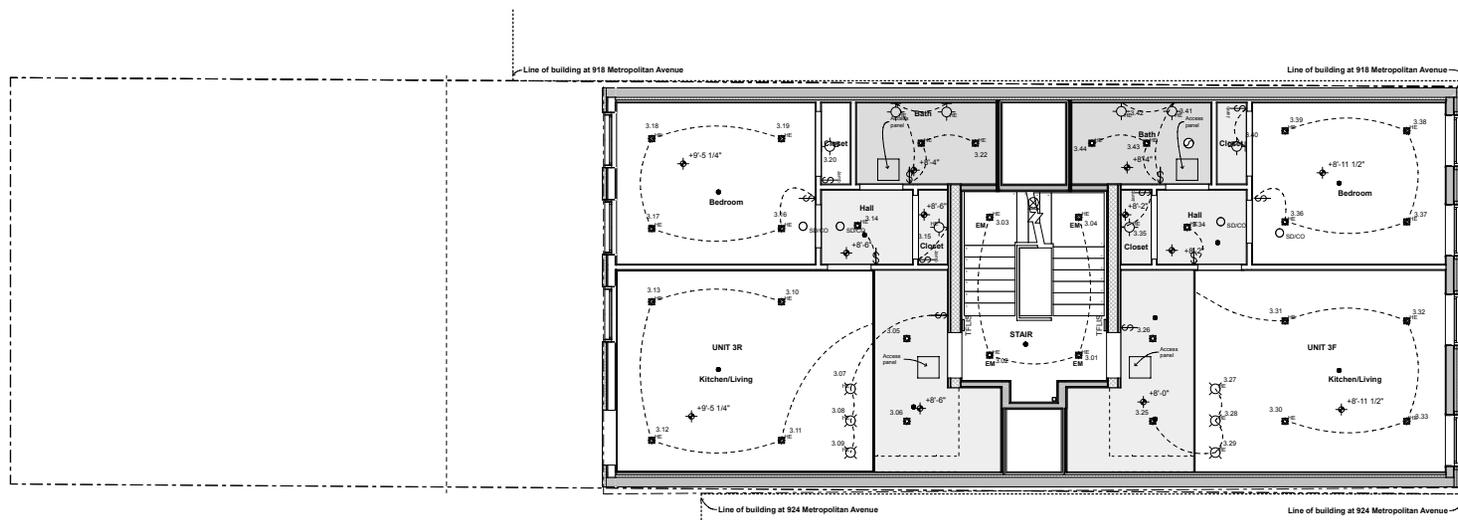
Total Fixtures High Efficacy = 183

93.8% of fixtures are high efficacy (complies)
This fixture must be IC rated, have an air leakage rating of less than 2cfm and must be sealed to the gypsum board ceiling with a gasket or caulk.



1 Second Floor RCP
SCALE: 1/4" = 1'-0"

TOTAL FIXTURES: 40
TOTAL HE FIXTURES: 36



2 Third Floor RCP
SCALE: 1/4" = 1'-0"

TOTAL FIXTURES: 40
TOTAL HE FIXTURES: 36



For Objectives: 8.30.22
For Objectives: 8.16.22
For Objectives: 8.10.22
For Objectives: 6.23.22
For Filing: 5.10.22

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Ambrosino Construction

Cyr Apollinar Garcia
APPROVED
Date: 01/06/2022

920 Metropolitan Avenue Brooklyn, NY 11211

Second & Third Floor RCP



A-104.00

Sheet 14 of 17
DOB Application #900715872-11

Lighting Legend

All fixtures are LED. Drivers provided; ballasts not applicable

	Surface Mounted Ceiling Light Lamp: 12W
	Recessed Downlight Lamp: 12W
	Bathroom Sconce Lamp: 12W
	Combination hardwired smoke and Carbon monoxide detector with battery backup
	Concealed sprinkler head. See Sprinkler Dwg's for dets.
	Occupancy Sensor
	High Efficacy Fixture
	Emergency illumination fixture. Fixture must provide 1 foot candle min and equipped with 90 minute battery pack or ballast.
	Exit sign. Arrow points to direction of exit.

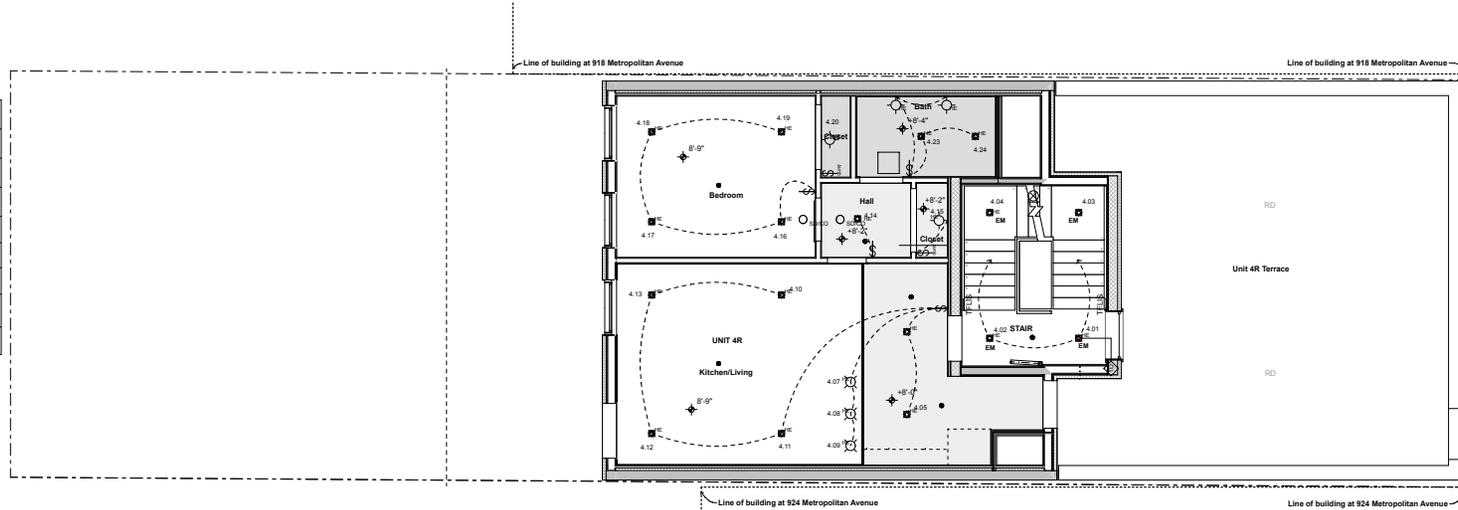
2020 NYECC Note:

Per C405.1 Exception: Interior Lighting requirements comply with R404.1. Minimum 90% of permanently installed lamps to be high efficacy.

Total Fixtures = 195
Total Fixtures High Efficacy = 183

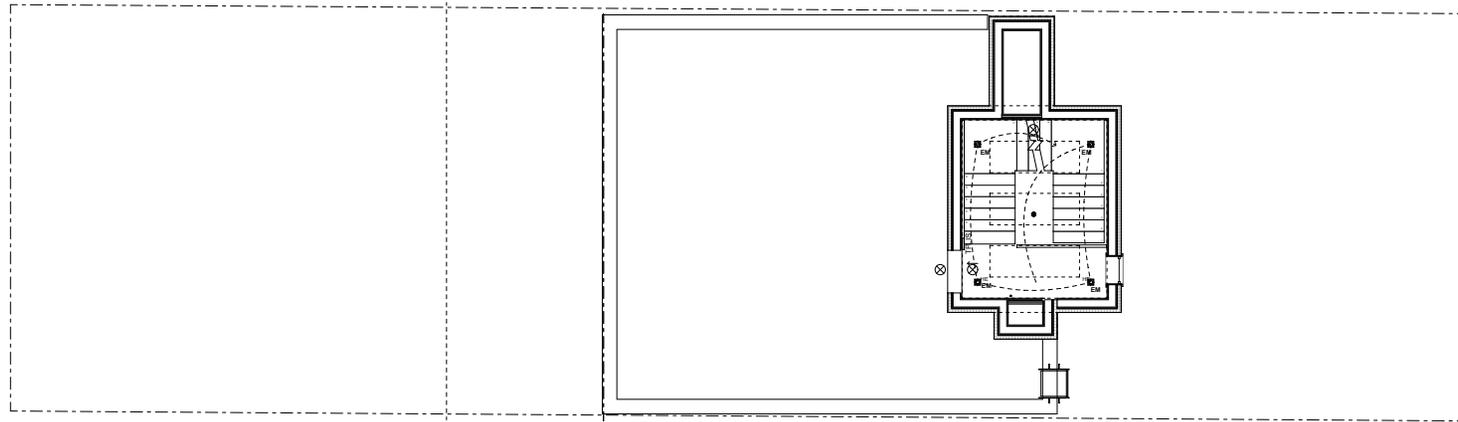
93.8% of fixtures are high efficacy (complies)

This fixture must be IC rated, have an air leakage rating of less than 0.05 and must be sealed to the gypsum board ceiling with a gasket or caulk.



1 Fourth Floor RCP
SCALE: 1/4" = 1'-0"

TOTAL FIXTURES: 22
TOTAL HE FIXTURES: 20



2 Roof RCP
SCALE: 1/4" = 1'-0"

TOTAL FIXTURES: 4
TOTAL HE FIXTURES: 4



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VANCE

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For Objections: 8.30.22
For Objections: 8.23.22
For Objections: 8.16.22
For Objections: 8.10.22
For Objections: 6.23.22
For Filing: 5.10.22

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Cyr Apollinar Garcia
APPROVED
Date: 09/06/2022

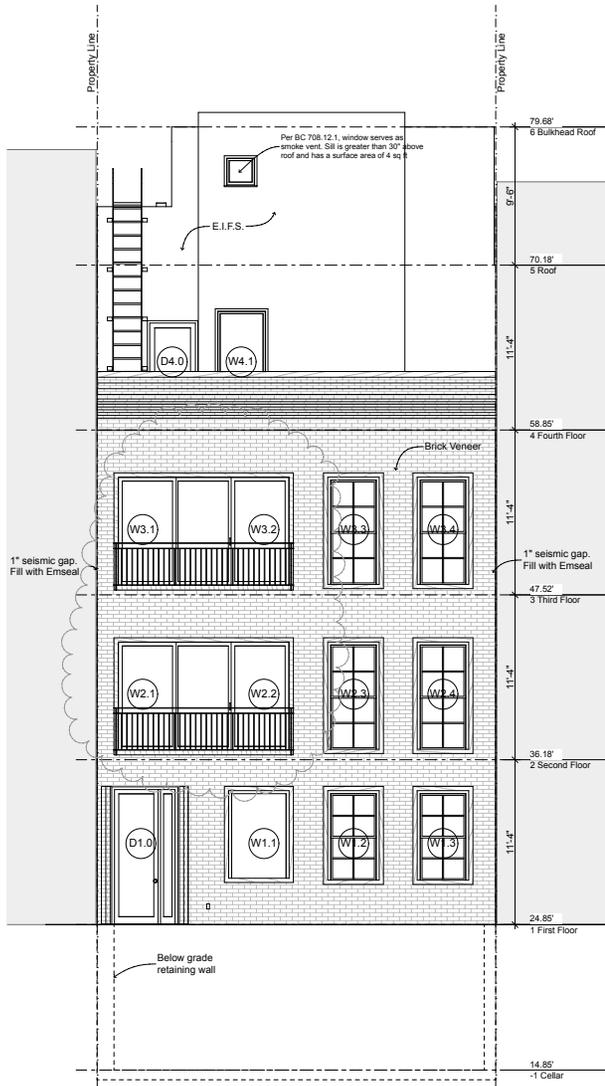
920 Metropolitan Avenue Brooklyn, NY 11211

Fourth Floor & Roof RCP

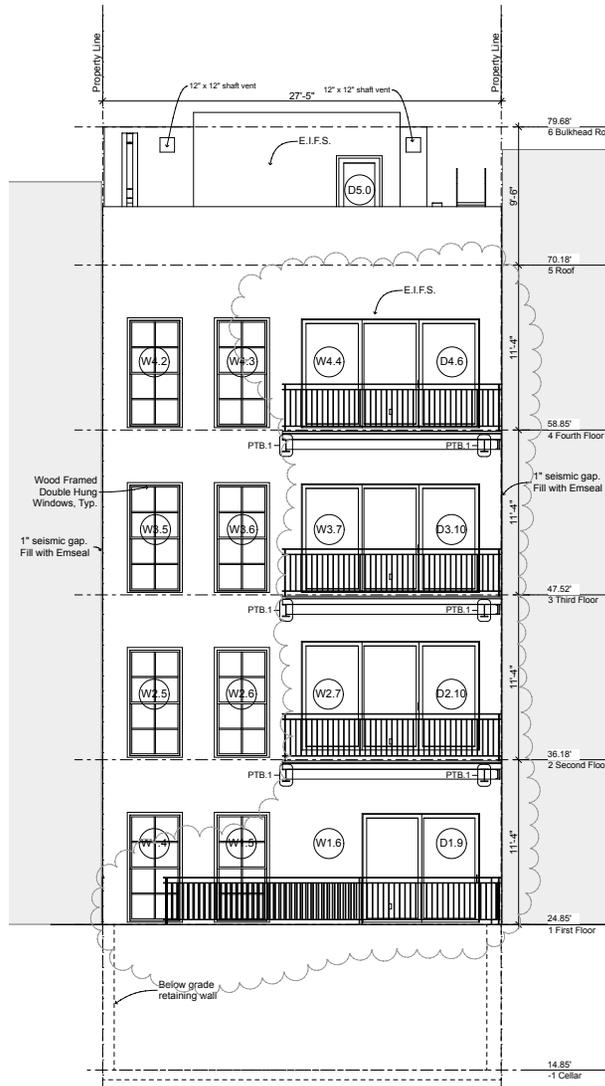


A-105.00

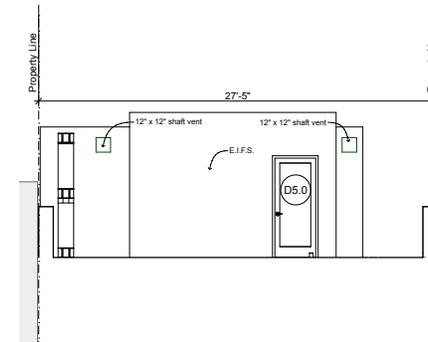
Sheet 15 of 17
DOB Application #900715812-11



1 North Elevation
SCALE: 1/4" = 1'-0"



2 South Elevation
SCALE: 1/4" = 1'-0"



3 South Elevation at stair Bulkhead
SCALE: 1/4" = 1'-0"

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D121 645-1278 www.parchitects.com

P&M: 1.24.23
For Objections: 6.23.22
For Objections: 6.23.22
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830 Metropolitan Avenue
Astoria, NY 11706
APPROVED
Under Directive 2 of 2015
AMENDED APPLICATION

Date: 03/29/2023
NYC Development Hub

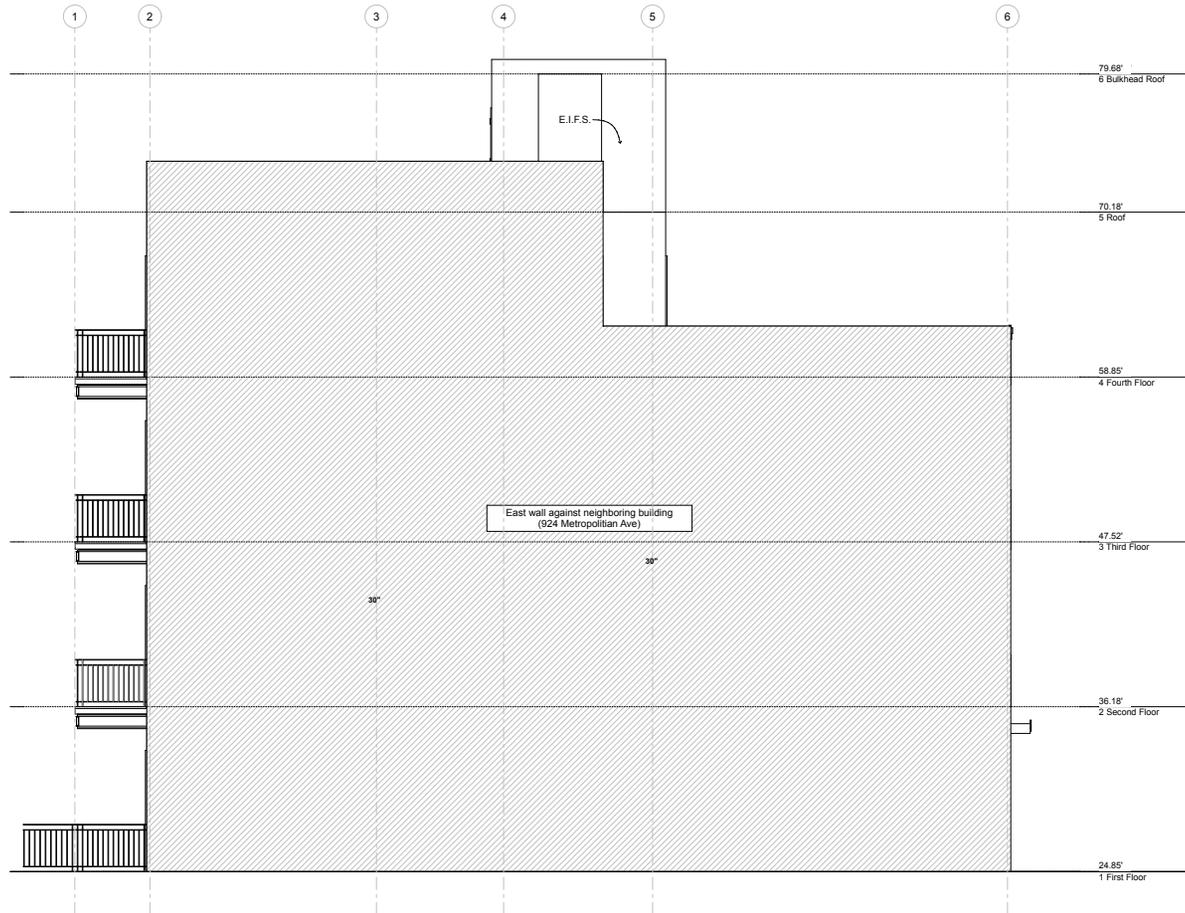
920 Metropolitan Avenue Brooklyn, NY 11211

Exterior Elevations



A-200.01

Sheet 32 of 37
DOB Application #800715812-P3



I East Elevation
SCALE: 1/4" = 1'-0"

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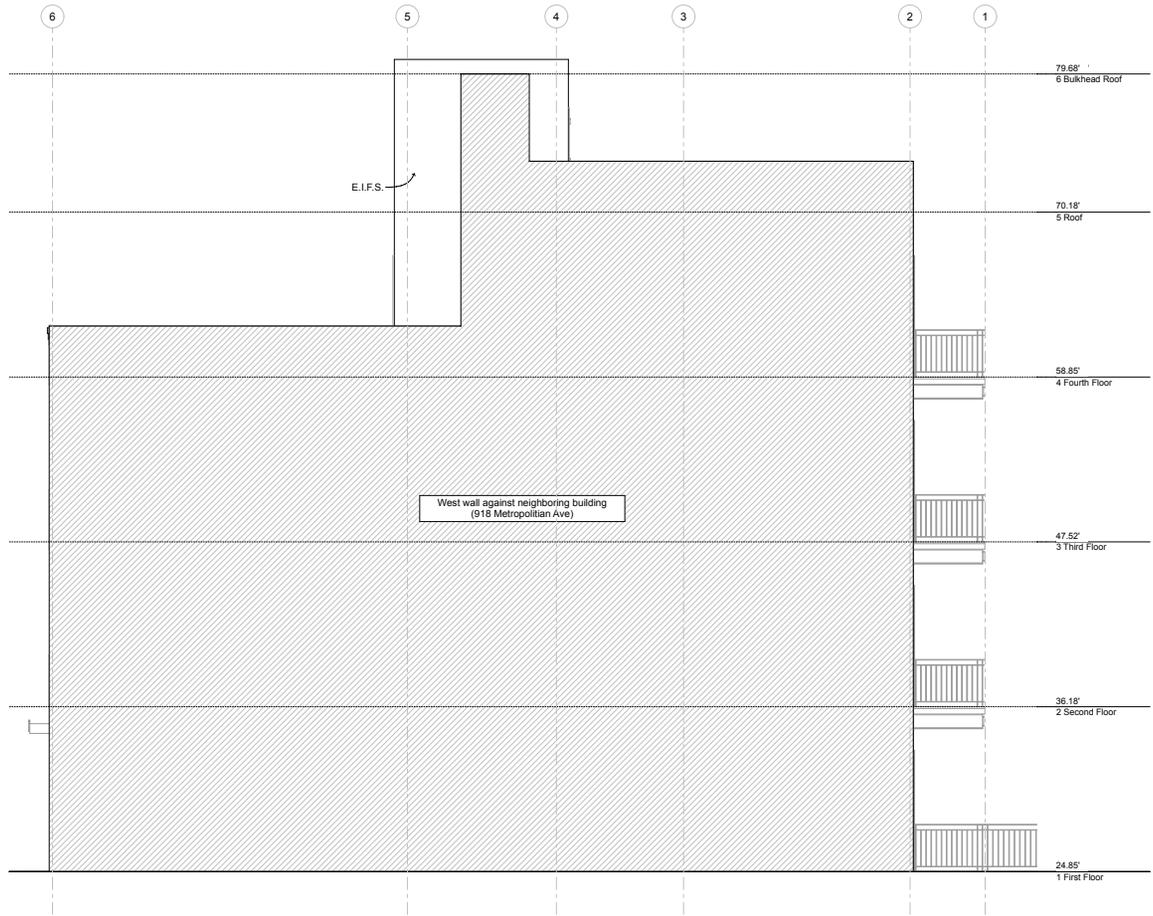
920 Metropolitan Avenue Brooklyn, NY 11211

Exterior Elevations



A-201.00

Sheet 17 of 17
DOB Application #900715872-11



I West Elevation
SCALE: 1/4" = 1'-0"

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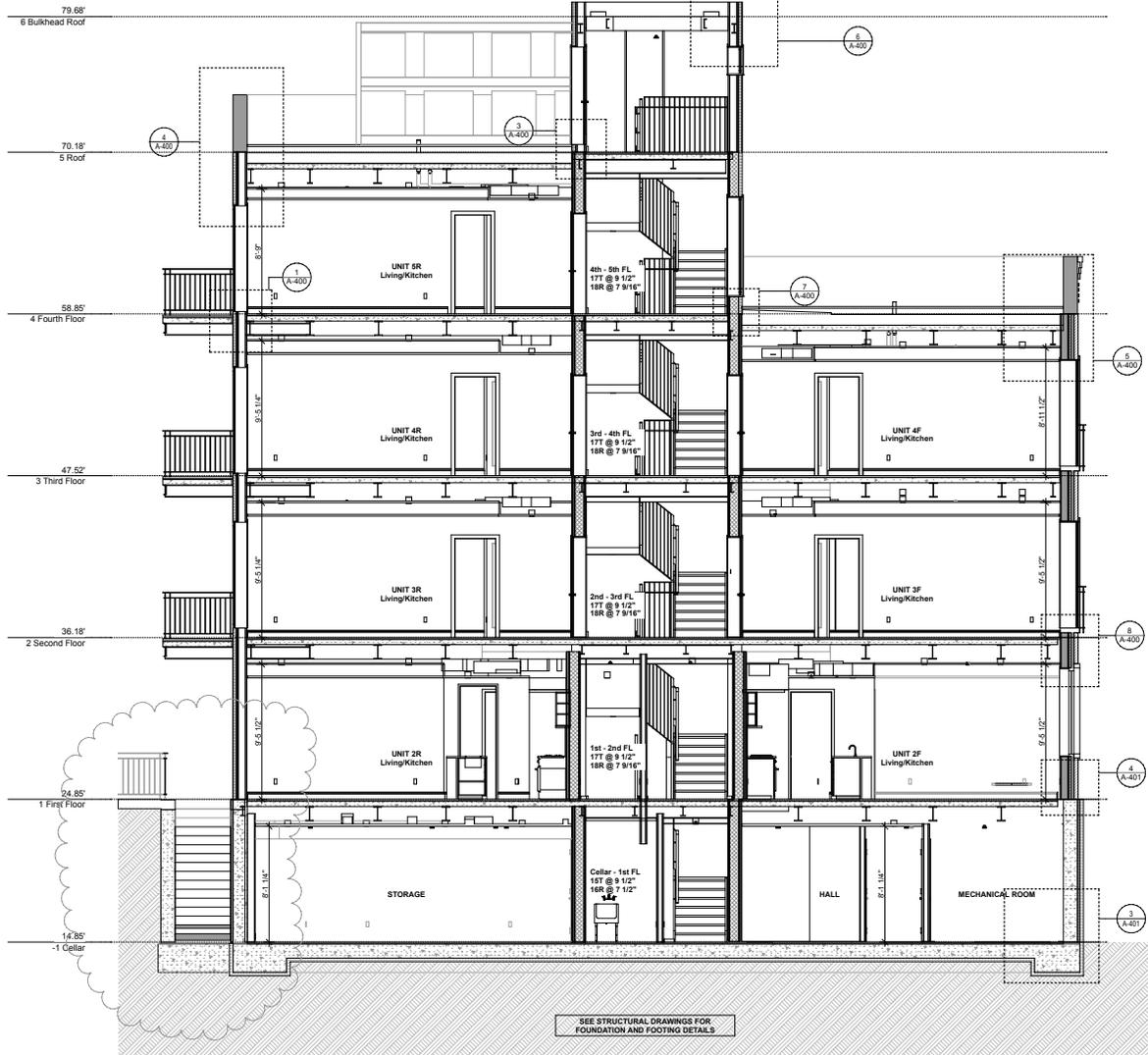
920 Metropolitan Avenue Brooklyn, NY 11211

Exterior Elevations

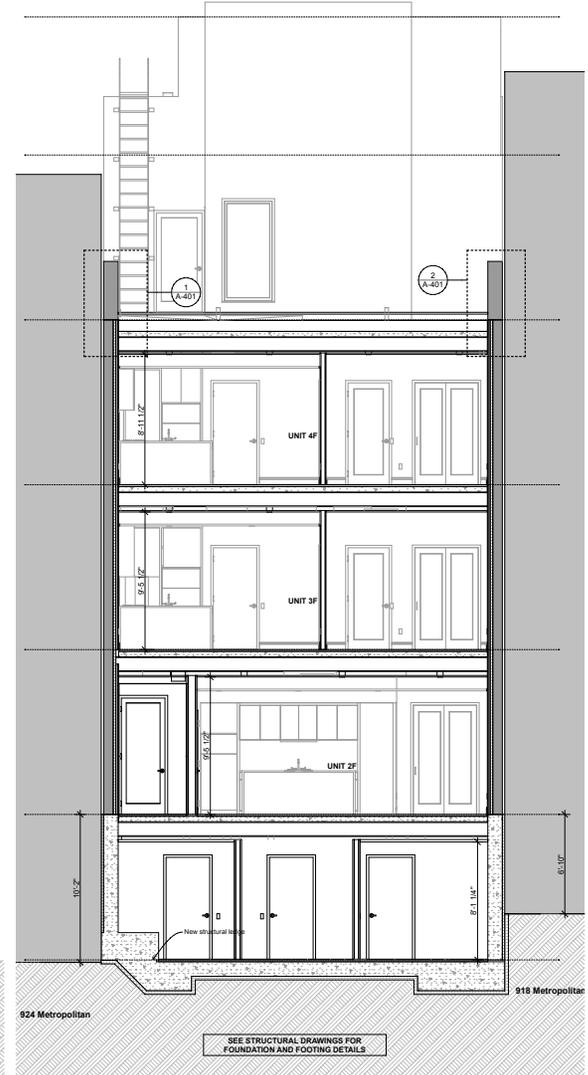


A-202.00

Sheet 18 of 17
DOB Application #B00715872-11



1 Longitudinal Building Section
SCALE: 1/4" = 1'-0"



2 Transverse Building Section
SCALE: 1/4" = 1'-0"

PAN 1.24.23
For Filing: 5.10.22

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920 Metropolitan Avenue
Brooklyn, NY 11211

APPROVED
Under Directive 2 of 3575
AMENDED APPLICATION
Date: 03/29/2023
NYC Development Hub

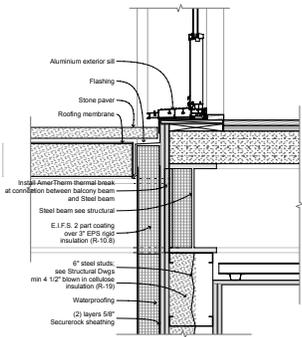
920 Metropolitan Avenue Brooklyn, NY 11211

Building Sections

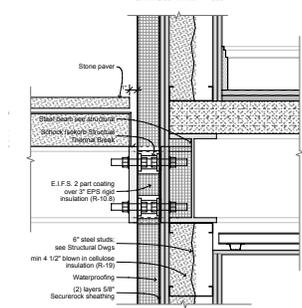


A-300.01

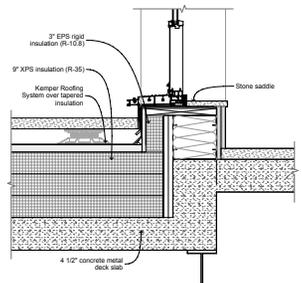
Sheet 33 of 37
DOB Application #800715812-P3



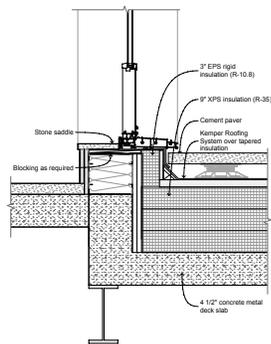
1 Roof to Balcony Detail
SCALE: 1 1/2" = 1'-0"



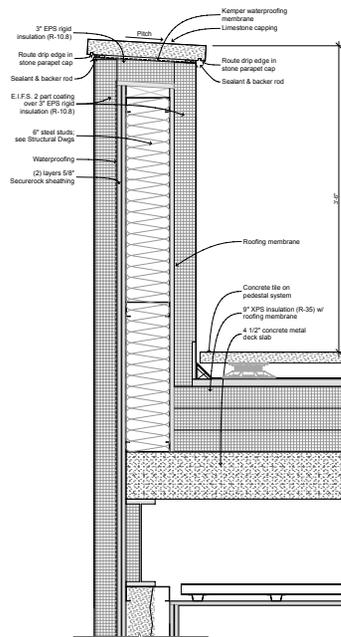
2 Rear Balcony Detail
SCALE: 1 1/2" = 1'-0"



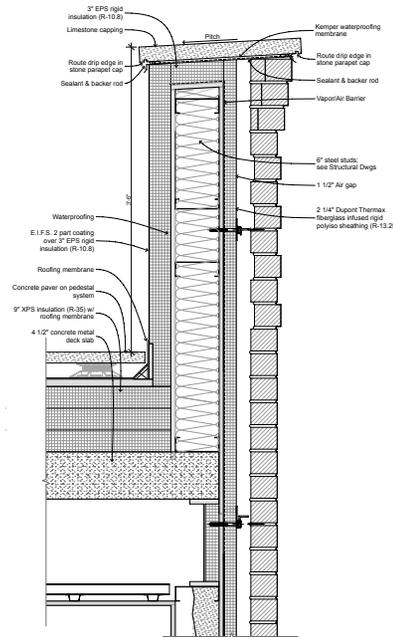
3 Roof threshold detail @ door
SCALE: 1 1/2" = 1'-0"



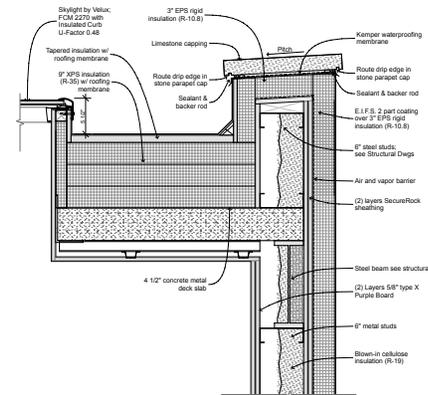
7 Roof to exterior door detail
SCALE: 1 1/2" = 1'-0"



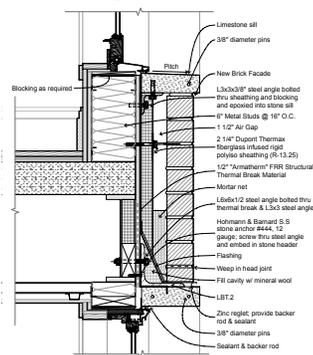
4 South Parapet Detail
SCALE: 1 1/2" = 1'-0"



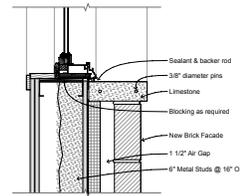
5 North Parapet Detail
SCALE: 1 1/2" = 1'-0"



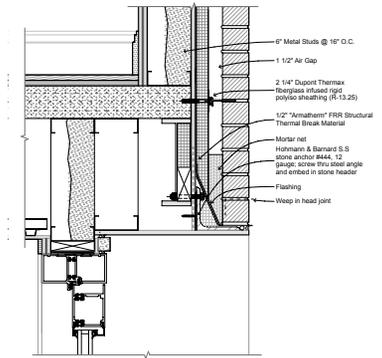
6 Bulkhead Roof Detail
SCALE: 1 1/2" = 1'-0"



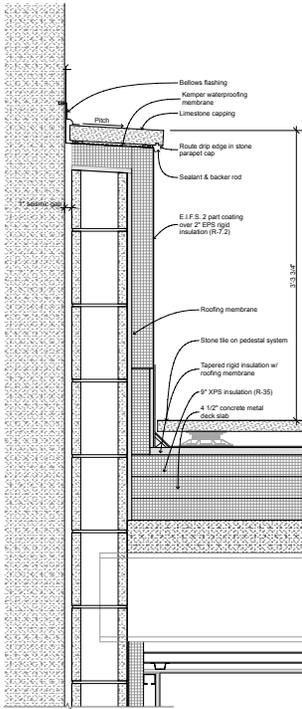
8 Typ. Window Sill/Head Detail
SCALE: 1 1/2" = 1'-0"



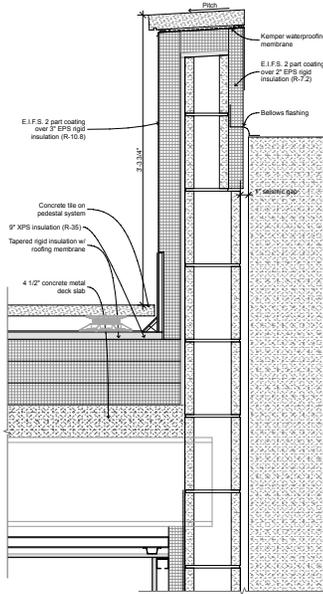
9 Window Jamb Detail
SCALE: 1 1/2" = 1'-0"



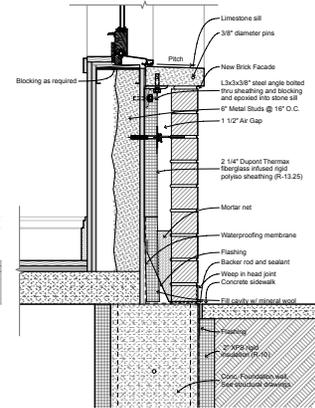
10 Entry Door Head
SCALE: 1 1/2" = 1'-0"



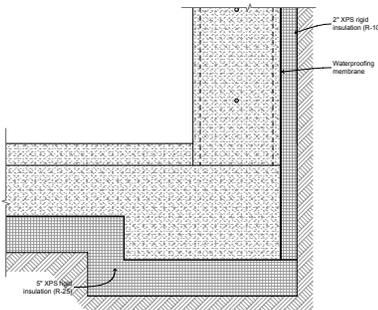
1 Roof to Adjacent West Building Detail
SCALE: 1/2" = 1'-0"



2 Roof to Adjacent East Building Detail
SCALE: 1/2" = 1'-0"



4 Wall to Slab detail
SCALE: 1/2" = 1'-0"



3 Footing Detail
SCALE: 1/2" = 1'-0"

PROJECT DESCRIPTION:

PROPOSED 4 STORY & CELLAR RESIDENTIAL.

SCOPE OF WORK:

SOLDIER PILES, TIMBER LAGGINGS, WALER, RAKERS, AND STABLE SOIL SLOPE FOR THE PROPOSED EXCAVATION AND FOUNDATION WORK.

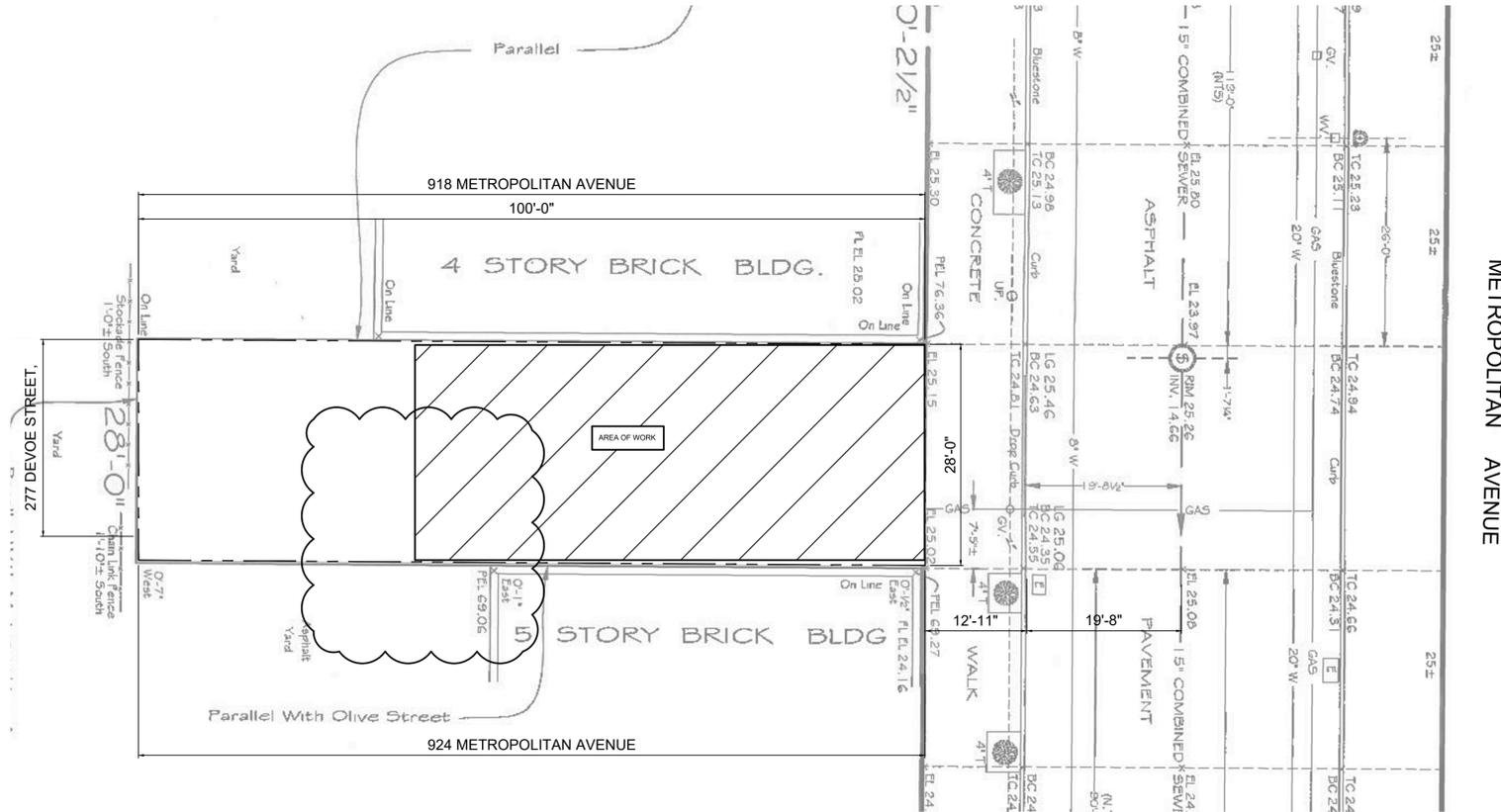
DRAWING INDEX		
SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
01	T-001.01	TITLE SHEET
02	SOE-001.01	GENERAL NOTES
03	SOE-002.00	GENERAL NOTES
04	SOE-101.01	SUPPORT OF EXCAVATION PLAN
05	SOE-102.01	MONITORING PLAN
06	SOE-201.01	SUPPORT OF EXCAVATION SECTIONS
07	SOE-202.01	SUPPORT OF EXCAVATION SECTIONS
08	SOE-301.01	SUPPORT OF EXCAVATION DETAILS
09	SOE-302.00	TYPICAL UNDERPINNING DETAILS

LIST OF RELATED JOB NOS.	
JOB TYPE	JOB NUMBER
ARCHITECTURAL	B00715872-S3
STRUCTURAL	B00715872-P5
FOUNDATION	B00715872-P5
SUPPORT OF EXCAVATION	B00715872-P4

AREA OF EXCAVATION



KEY PLAN:



PLOT PLAN:
SCALE: 3/32"=1'-0"
BLOCK: 2917
LOT: 6



CONSULTING STRUCTURAL, GEOTECHNICAL, & ENVIRONMENTAL ENGINEERS

40-12 28TH STREET
LONG ISLAND CITY, NY 11101
T:(718)706-7196 Email: info@set-ny.com

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OWNER:



NOTE:

STRUCTURAL ENGINEERING TECHNOLOGIES, P.C. HAS NOT BEEN RETAINED TO PERFORM CONTROLLED INSPECTIONS OF ANY KIND FOR THIS PROJECT.

THE DESIGN PROFESSIONAL SHALL BE RELEASED FROM ANY AND ALL LIABILITY IN THE COMMENCEMENT OF ANY WORK PERFORMED WITHIN THESE DOCUMENTS PRIOR TO OBTAINING ALL REQUIRED PERMITS FROM THE RESPECTIVE JURISDICTIONAL AGENCIES

NO.	DATE	DESCRIPTION
05/01/23		UPDATED FOR PAA
04/12/23		UPDATED
03/09/23		PER FO
02/02/23		UPDATED
11/02/22		UPDATED
08/08/22		PER DOB
07/01/22		UPDATED FOR FILING
05/04/22		FILING SET
03/25/22		PRELIMINARY

REVISIONS: PROJECT

920 METROPOLITAN AVENUE
BROOKLYN, NY 11211

DRAWING TITLE:

TITLE SHEET

SEAL & SIGNATURE



DATE: 02-21-2022
SCALE: AS NOTED
DRAWING BY: A.M.C.
CHECKED BY: R.G.
DWG NO: T-001.01

SHEET NO: 01 OF 9

BSCAN STICKER

DOB APPROVAL STAMP

DOB JOB #B00715872-P4

SPECIAL INSPECTIONS:

- PRIOR TO BEGINNING ANY WORK, THE OWNER SHALL RETAIN THE SERVICES OF S.E.T. . P.C., OR ANOTHER ACCEPTABLE LICENSED PROFESSIONAL ENGINEER WHO SHALL HAVE PROVEN EXPERIENCE ACCEPTABLE TO THE OWNER AND ARCHITECT. MINIMUM REQUIRED QUALIFICATIONS SHALL INCLUDE A PROFESSIONAL LIABILITY INSURANCE COVERAGE OF 1 MILLION DOLLARS AND A MINIMUM PROVEN EXPERIENCE OF 5 YEARS WITH SIMILAR WORK.
- SPECIAL AND PROGRESS (CONTROLLED) INSPECTIONS REQUIRED BY THE NYC BUILDING CODE SHALL BE PERFORMED BY A TESTING AGENCY AND / OR PROFESSIONAL ENGINEER RETAINED BY THE OWNER AT NO COST TO THE CONTRACTOR FOR THE FOLLOWING CHECKED ITEMS:

SPECIAL INSPECTION CATEGORIES		
<input type="checkbox"/>	STRUCTURAL STEEL -- WELDING	BC 1704.3.1
<input type="checkbox"/>	STRUCTURAL STEEL -- DETAILS	BC 1704.3.2
<input type="checkbox"/>	STRUCTURAL STEEL -- HIGH STRENGTH BOLTING	BC 1704.3.3
<input type="checkbox"/>	STRUCTURAL COLD-FORMED STEEL	BC 1704.3.4
<input checked="" type="checkbox"/>	CONCRETE -- CAST-IN-PLACE	BC 1704.3.4
<input type="checkbox"/>	MASONRY	BC 1704.3.5
<input type="checkbox"/>	SUBGRADE INSPECTION	BC 1704.7.1
<input type="checkbox"/>	SUBSURFACE CONDITIONS -- FILL PLACEMENT & IN-PLACE DENSITY	BC 1704.7.2, BC 1704.7.3
<input type="checkbox"/>	DEEP FOUNDATION ELEMENTS	BC 1704.8
<input type="checkbox"/>	HELICAL PILES (BB # 2014-020)	BC 1704.8.5
<input type="checkbox"/>	STRUCTURAL STABILITY -- EXISTING BUILDING	BC 1704.20.1
<input checked="" type="checkbox"/>	EXCAVATIONS--SHEETING, SHORING, BRACING	BC 1704.20.2
<input checked="" type="checkbox"/>	UNDERPINNING	BC 1704.20.3, BC 1814
<input type="checkbox"/>	MECHANICAL DEMOLITION	BC 1704.20.4
<input type="checkbox"/>	POST-INSTALLED ANCHORS (BB #2014-018, 2014-019)	BC 1704.32
<input checked="" type="checkbox"/>	CONCRETE DESIGN MIX	BC 1905.3, BC 1913.5
<input type="checkbox"/>	CONCRETE SAMPLING AND TESTING	BC 1905.6, BC 1913.10
PROGRESS INSPECTION CATEGORIES		
<input type="checkbox"/>	FOOTING AND FOUNDATION	BC 110.3.1
<input type="checkbox"/>	STRUCTURAL WOOD FRAME	BC 110.3.3
<input type="checkbox"/>	FINAL	28-116.2.4.2,
		BC 110.5, DIRECTIVE 14 OF 1975, AND 1 RCNY § 101-10

THE TESTING AGENCY FOR SPECIAL INSPECTIONS SHALL FILE ALL APPROPRIATE FORMS WITH THE NEW YORK CITY BUILDINGS DEPARTMENT.

- THE CONTRACTORS ENGINEER SHALL PREPARE PLANS, CALCULATIONS, AND NOTES IN THE FORM OF SHOP DRAWINGS, FOR ALL ITEMS OF WORK WHICH DIFFER FROM WHAT IS SHOWN ON THE SOE DRAWINGS DUE TO FIELD CONDITIONS.
- COPIES OF SUCH DRAWINGS WHICH INCLUDE THE ARCHITECT'S AND ENGINEER'S COMMENTS SHALL BE FILED WITH THE DEPARTMENT OF BUILDINGS (ON AMENDMENT FORMS). ADDITIONALLY, AT COMPLETION OF WORK, FORMS INCLUDING ALL INSPECTION REPORTS PREPARED BY THE CONTRACTOR'S ENGINEER SHALL BE FILED WITH THE DEPARTMENT OF BUILDINGS.
- THE SPECIAL INSPECTIONS ENGINEER SHALL DETERMINE THE FREQUENCY OF INSPECTIONS NEEDED AND WHETHER HE OR SHE SHOULD INSPECT THE SITE PERSONALLY OR SEND A PERSON UNDER HIS OR HER DIRECT SUPERVISION. AT A MINIMUM, THE SITE MUST BE INSPECTED TWICE, ONCE AT A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR AND ONCE DURING CONSTRUCTION OPERATIONS.
- THE SPECIAL INSPECTIONS ENGINEER, SHALL MAINTAIN A LOG IN HIS OR HER OFFICE WHICH INCLUDES THE FOLLOWING INFORMATION:
 - ADDRESS OF THE PREMISES, JOB NUMBER, CONTRACTOR NAME AND ADDRESS
 - DATE AND TIME OF EACH INSPECTION INCLUDING
 - NAMES OF PERSONNEL WHO INSPECTED THE SITE
 - ANY SIGNIFICANT OBSERVATIONS OR INSTRUCTIONS GIVEN RELATING TO ANY OF THE FOLLOWING:
 - DEVIATIONS FROM THE CONTRACT DOCUMENTS.
 - ANTICIPATED FIELD CONDITIONS;
 - PROPER EXECUTION OF THE STRUCTURAL WORK;
 - GOOD ENGINEERING PRACTICE;
 - PRECAUTIONS TAKEN TO MAINTAIN SAFE CONDITIONS, IF WORK IS STOPPED FOR ANY REASON.
 - THE DATE OF AND PARTICIPANTS IN ANY CONVERSATIONS WITH THE SPECIAL INSPECTIONS ENGINEER OCCURRING OFF-SITE AND RELATING TO ANY SIGNIFICANT OBSERVATIONS OR INSTRUCTIONS.
- THE SPECIAL INSPECTIONS ENGINEER SHALL RETAIN A COPY OF THE DOCUMENTS DESCRIBED ABOVE IN HIS OR HER OFFICE AND SHALL PROVIDE A COPY TO THE CONTRACTOR AND / OR OWNER TO BE KEPT AT THE CONSTRUCTION SITE.
- THE SPECIAL INSPECTIONS ENGINEER RESPONSIBLE FOR SPECIAL INSPECTION SHALL REPORT UNSAFE CONDITIONS, WHEN AND IF OBSERVED DURING HIS / HER SITE VISITS, TO THE DEPARTMENT OF BUILDINGS AND / OR ANY OTHER AFFECTED PARTIES OR AGENCIES. IT IS TO BE NOTED THAT THE SPECIAL INSPECTIONS ENGINEER AND ENGINEER OF RECORD ARE NOT RESPONSIBLE IN ANY WAY FOR SITE SAFETY. SITE SAFETY SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
- UPON REQUEST OF THE BUILDINGS DEPARTMENT, THE SPECIAL INSPECTIONS ENGINEER SHALL MAKE AVAILABLE FOR REVIEW BY THE BUILDINGS DEPARTMENT DOCUMENTS AND THE LOG DESCRIBED ABOVE.

SAFETY DURING EXECUTION OF WORK:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONDITIONS OF PUBLIC AND WORKER SAFETY DURING EXECUTION OF THE WORK. THIS SHALL INCLUDE COMPLIANCE WITH CHAPTER 33 OF THE NEW YORK CITY BUILDING CODE: SAFEGUARDS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE SIDEWALK PROTECTION AND PROTECTION OF ADJOINING PROPERTIES, AS REQUIRED BY THE NYC BLDG. CODE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND FILING A SITE SAFETY PLAN AND/OR PROVIDING OTHER WRITTEN ASSURANCES OF SAFE OPERATIONS AS MAY BE REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SAFE WORKING ENVIRONMENT FOR ALL WORKERS. THIS SHALL INCLUDE COMPLIANCE WITH ALL OSHA, STATE AND LOCAL LABOR LAWS WHICH MAY GOVERN THIS TYPE OF WORK.
- THE CONTRACTOR SHALL PROVIDE REGULAR PERIODIC INSPECTION OF CONSTRUCTION OPERATIONS AS REQUIRED TO ENSURE ONGOING MAINTENANCE OF ALL SAFETY OPERATIONS AND EQUIPMENT. SUCH INSPECTIONS SHALL BE UNDERTAKEN BY AN AGENT OF THE CONTRACTOR WHO IS QUALIFIED TO EVALUATE SUCH OPERATIONS AND EQUIPMENT. THIS INSPECTOR SHALL PREPARE WRITTEN SAFETY REPORTS WHICH SHALL BE MAINTAINED AT THE JOB SITE FOR REVIEW BY THE AUTHORITIES HAVING JURISDICTION.

GENERAL

- THE DESIGNS ON THESE DRAWINGS ARE INTENDED FOR TEMPORARY SUPPORT OF EXCAVATION ONLY.
- THESE DRAWINGS ARE INTENDED TO BE USED BY ONLY AN EXPERIENCED CONTRACTOR AFTER CONSULTATION WITH THIS OFFICE. THIS OFFICE WILL NOT BE RESPONSIBLE FOR JOB SITE PROBLEMS DUE TO FAILURE TO INTERPRET THE DOCUMENTS CORRECTLY. REPRESENTATIVES OF S.E.T. . P.C. ARE AVAILABLE TO ANSWER QUESTIONS AND TO ASSIST THE CONTRACTOR BY EXPLAINING THE DESIGN INTENT. FAILURE BY THE CONTRACTOR TO UNDERSTAND THE COMPLEXITIES OF THE PROJECT AND THE SEQUENCE OF CONSTRUCTION CAN RESULT IN INJURY OR DEATH TO WORKERS. PROCEEDING WITH CONSTRUCTION WITHOUT FULL UNDERSTANDING OF THE PROJECT AND WITHOUT A COMPLETE SET OF DESIGN DOCUMENTS WILL PUT BOTH THE PROJECT AND INDIVIDUALS IN PERIL. THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR ANY CONSEQUENCE OF THAT ACTION.
- ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR ADHERING TO THE REQUIREMENTS AS SPELLED OUT IN THESE NOTES. ALL PARTIES MUST CAREFULLY STUDY ALL NOTES FOR ITEMS WHICH MAY PERTAIN TO THEIR TRADES. FAILURE TO READ THESE NOTES DOES NOT PERMIT THE CONTRACTOR TO DEVIATE FROM THEIR REQUIREMENTS.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT BUILDING CODE OF ALL GOVERNING AUTHORITIES.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS, AND DRAWINGS.
- THE DESIGN PLANS AND NOTES, TO THE BEST OF ENGINEER'S KNOWLEDGE, COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE NEW YORK CITY BUILDING CODE.
- WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
- GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND CHECK ALL MEASUREMENTS ON JOB AND SHALL BE RESPONSIBLE FOR SAME.
- ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SHOULD NOT BE USED FOR ORDERING AND/OR FABRICATING MATERIAL. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO ORDERING AND/OR FABRICATING MATERIALS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BY MEASUREMENTS AT THE JOB SITE AND SHALL TAKE ANY AND ALL OTHER MEASUREMENTS NECESSARY TO VERIFY THE DRAWINGS AND TO PERFORM WORK PROPERLY.
- DIFFERENT FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF S.E.T., P.C. IMMEDIATELY FOR EVALUATION. IF THE CONDITIONS OBSERVED AS THE EXCAVATION ADVANCES ARE DIFFERENT THAN THE CONDITIONS SHOWN ON THE DESIGN DRAWINGS, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER. MODIFICATIONS TO THESE DRAWINGS MAY BE NECESSARY.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITIES AND BELOW GROUND STRUCTURES IN THE AREA OF WORK PRIOR TO COMMENCEMENT OF WORK.
- NOTIFY DOB 24 TO 48 HOURS PRIOR TO START OF EXCAVATION (RULE 52).
- SIDEWALK CLOSING FROM NYDOT IS REQUIRED TO OVERCUT THE SIDEWALK OR TO PLACE SUPPORT OF EXCAVATION ELEMENTS IN THE SIDEWALK OR STREET.
- ALL CONTRACTORS AND SUBCONTRACTORS ON THIS PROJECT SHALL BE RESPONSIBLE FOR THE PROPER PERFORMANCE OF THEIR WORK, COORDINATION WITH OTHER TRADES, METHODS, SAFETY AND SECURITY ON THE JOB SITE. S.E.T., P.C. AND ITS AGENTS AND EMPLOYEES ARE NOT RESPONSIBLE OR LIABLE FOR THE ABOVE AND SHALL BE HELD HARMLESS AND INDEMNIFIED BY ALL CONTRACTORS AND SUBCONTRACTORS FROM ANY AND ALL CLAIMS, LOSSES, SUITS AND LEGAL ACTION WHATSOEVER ARISING FROM THE PERFORMANCE OF WORK ON THIS PROJECT.
- ALL WORK PERFORMED WHICH AFFECTS THE ADJACENT BUILDING OPERATIONS SHALL CAUSE MINIMUM DISTURBANCE TO THE NORMAL OPERATION OF AFFECTED PARTS OF THE BUILDING.
- PINS, WIRE MESH, AND PARGING MAY BE REQUIRED TO STABILIZE THE FOUNDATION WALL, OR FOOTINGS. LOOSE AREAS OF FOUNDATION WALL OR FOOTINGS THAT ARE DAMAGED OR LOOSE SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR EVALUATION AND REMEDIAL MEASURES.
- CONSENT FROM OWNERS OF ADJACENT PROPERTIES SHALL BE OBTAINED IF REQUIRED WORK EXTENDS BEYOND PROPERTY LINE.
- ALL CONTRACTORS MUST VISIT SITE AND NOTE ALL EXISTING CONDITIONS AS WELL AS ALL CONDITIONS TO BE MET BEFORE SUBMITTING BID. LACK OF THOROUGH UNDERSTANDING OF THE PROJECT REQUIREMENTS SHALL NOT CONSTITUTE AN EXCUSE FOR ERRORS OR OMISSIONS, NOR JUSTIFY A REQUEST FOR EXTRA COMPENSATION.
- CONTRACTOR SHALL MAKE NO DEVIATION FROM THESE DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
- ACCEPTANCE OF DEVIATIONS FROM ANY OF THE REQUIREMENTS OF THESE NOTES SHALL BE AT THE SOLE DISCRETION OF THE ENGINEER. ACCEPTANCE OF A DEVIATION FROM ANY REQUIREMENT SHALL NOT BE CONSTRUED AS PERMITTING ANY OTHER DEVIATION.
- A PERMIT SHALL BE OBTAINED FROM DOT FOR SIDEWALK CLOSURE TO INSTALL SOLDIER PILES OR ANY INTRUSION PAST PROPERTY LINE.
- CONSTRUCTION OF NEW CONCRETE WALLS AGAINST EXISTING STRUCTURES SHALL COMPLY WITH NYCDOB BUILDINGS BULLETIN #2009-11.

BIDDERS WARRANTY:

BY THE ACT OF SUBMITTING A BID FOR THE PROPOSED CONTRACT, THE BIDDER WARRANTS THAT:

- THE BIDDER AND ALL SUBCONTRACTORS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS AND OTHER CONSTRUCTION CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM AMBIGUITIES AND SUFFICIENT FOR THE CONTRACTOR TO BID, FABRICATE, AND INSTALL THE WORK ON TIME, FURTHER THAT,
- THE BIDDER AND ALL WORKMEN, EMPLOYEES AND SUBCONTRACTORS HE INTENDS TO USE ARE SKILLED AND EXPERIENCED IN THE TYPE OF CONSTRUCTION REPRESENTED BY THE CONSTRUCTION CONTRACT DOCUMENTS BID UPON; FURTHER THAT,
- NEITHER THE BIDDER NOR ANY OF HIS EMPLOYEES, AGENTS INTENDED SUPPLIERS OR SUBCONTRACTORS HAVE RELIED UPON ANY VERBAL REPRESENTATIONS, ALLEGEDLY AUTHORIZED OR UNAUTHORIZED FROM THE OWNER, HIS EMPLOYEES OR AGENTS INCLUDING ARCHITECTS, ENGINEERS OR CONSULTANTS, IN ASSEMBLING THE BID FIGURE; AND FURTHER THAT THE BID FIGURE IS BASED SOLELY UPON THE CONSTRUCTION CONTRACT DOCUMENTS AND PROPERLY ISSUED WRITTEN ADDENDA AND NOT UPON ANY OTHER WRITTEN REPRESENTATION.
- THE BIDDER ALSO WARRANTS THAT HE HAS CAREFULLY EXAMINED THE SITE OF THE WORK AND THAT FROM HIS OWN INVESTIGATIONS HE HAS SATISFIED HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK AND THE CHARACTER, QUALITY, QUANTITIES OF MATERIALS AND DIFFICULTIES TO BE ENCOUNTERED, THE KIND AND EXTENT OF EQUIPMENT AND OTHER FACILITIES NEEDED FOR THE PERFORMANCE OF THE WORK, THE GENERAL AND LOCAL CONDITIONS, AND OTHER ITEMS WHICH MAY, IN ANY WAY, AFFECT THE WORK OR ITS PERFORMANCE.

DISCLAIMER:

THE DRAWINGS HEREIN ARE RELATED TO A NEW BUILDING STRUCTURE. THE STRUCTURAL DESIGN WAS BASED UPON AS MUCH OBSERVATION, MEASUREMENT, TESTING, ETC. AS CIRCUMSTANCES PERMITTED. HOWEVER, THERE WERE ASSUMPTIONS MADE ABOUT UNKNOWN CONDITIONS. SHOULD THE OWNER DECIDE NOT TO UTILIZE S.E.T. . P.C. TO VERIFY AND INSPECT THESE CONDITIONS IN THE FIELD, S.E.T. . P.C. WILL NOT BE RESPONSIBLE FOR ANY FAILURE, DAMAGE, INJURY, DELAY, LOSS OF INCOME, EXTRA COST, OR ANY OTHER LOSS DUE TO EXISTING CONDITIONS.

SHOP DRAWING REVIEW:

THE ENGINEER WILL REVIEW CONTRACTOR'S SHOP DRAWINGS AND RELATED SUBMITTALS WITH RESPECT TO CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND THE SPECIFICATIONS. SHOP DRAWINGS SHALL BE SUBMITTED IN DUPLICATE. EXCESS DRAWINGS WILL BE DISCARDED. IF REQUIRED BY SPECIFICATIONS, SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A LICENSED ENGINEER WHO IS LICENSED IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED. BEFORE SUBMITTING A SHOP DRAWING OR ANY RELATED MATERIAL TO THE ENGINEER, CONTRACTOR SHALL: REVIEW EACH SUCH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, INCLUDING REFLECTION OF EXISTING FIELD CONDITIONS. ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF CONTRACTOR. APPROVE EACH SUCH SUBMISSION BEFORE SUBMITTING IT; AND SO STAMP EACH SUCH SUBMISSION BEFORE SUBMITTING IT. THE ENGINEER WILL ASSUME THAT NO SHOP DRAWING OR RELATED SUBMITTAL COMPRISES A VARIATION FROM THE CONTRACT UNLESS CONTRACTOR ADVISES THE ENGINEER OTHERWISE VIA A WRITTEN INSTRUMENT WHICH IS ACKNOWLEDGED BY THE ENGINEER IN WRITING. IN THE EVENT THAT THE ENGINEER WILL RETURN WITHOUT REVIEW MATERIAL WHICH HAS NOT BEEN APPROVED BY GENERAL CONTRACTOR OR CONSTRUCTION MANAGER

FIDUCIARY LIABILITY DECLINED:

S.E.T., P.C. MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED AS TO S.E.T., P.C. FINDINGS, RECOMMENDATIONS, PLANS, SPECIFICATIONS, OR PROFESSIONAL ADVICE. S.E.T., P.C. HAS ENDEAVORED AND WILL ENDEAVOR TO PERFORM ITS SERVICES IN ACCORDANCE WITH GENERALLY ACCEPTED STANDARDS OR PRACTICE IN EFFECT AT THE TIME OF PERFORMANCE. BY UTILIZING THESE DOCUMENTS (OR HAVING OTHERS UTILIZE THEM) FOR ANY PURPOSE WHATSOEVER THE OWNER OR DEVELOPER RECOGNIZES THAT NEITHER S.E.T., P.C. OR ANY OF S.E.T., P.C. SUBCONSULTANTS OR SUBCONTRACTORS OWES ANY FIDUCIARY RESPONSIBILITY TO THE OWNER OR DEVELOPER.

EXCAVATION NOTES:

- CONTRACTOR SHALL CALL 811 BEFORE ANY EXCAVATION BEGINS, FOR UTILITY COMPANIES TO MARK OUT ALL EXISTING UTILITY LINES.
- PRIOR TO COMMENCEMENT OF MASS EXCAVATION, THE ADJOINING PROPERTIES AND STREETS SHALL BE VISUALLY SURVEYED BY THE CONTRACTOR, SUITABLY MARKED WITH PERMANENT MONITORING POINTS TO BE MEASURED DURING CONSTRUCTION FOR THE PURPOSES OF DETERMINING CONSTRUCTION-RELATED EFFECTS. REPORT WITH PHOTOGRAPHS SHALL BE PROVIDED TO ARCHITECT AND ENGINEER IN TRIPlicate COPIES. A PRE-CONSTRUCTION DAMAGE CONDITION SURVEY OF THE ADJOINING PROPERTIES SHALL BE MADE IN WRITTEN AND PICTORIAL FORM, AND TWO COPIES SHALL BE FURNISHED TO THE OWNER'S REPRESENTATIVE.
- A COMPETENT REPRESENTATIVE OF THE CONTRACTOR SHALL INSPECT THE SUBGRADE OF THE EXCAVATION, ANY AND ALL BRACING AND BLOCKING, AT THE COMMENCEMENT OF EACH SHIFT, TO ASSURE INTEGRITY, PRIOR TO PERMITTING WORKMEN TO WORK WITHIN ANY EXCAVATED AREA. ALL SIDES OR SLOPES OF EXCAVATIONS SHALL BE INSPECTED FOR STABILITY AFTER RAINSTORMS.
- THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SUBGRADE CONDITIONS PRIOR TO START OF WORK. THESE DRAWINGS DISCOUNT UNDERGROUND WATER CONDITIONS.
- THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY EXCAVATION RESTRAINT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT AS PER THE SOE DESIGN OUTLINED IN THESE DRAWINGS.
- ALL EXCAVATION GREATER THAN 5-FT IN DEPTH SHALL BE SHEETED, OR LAGGED AND BRACED.
- IF BRACING IS USED TO SUPPORT THE EXCAVATION, PROVIDE THE REACTION TO THE BRACING BY PRE-LOADING OR BY THE USE OF SUITABLE WEDGES PROPERLY DRIVEN INTO THE JOINTS UNTIL THE NECESSARY REACTION IS PRODUCED AGAINST THE BANKS.
- IF MATERIAL BEHIND LAGGING IS LOST OR DISTURBED, LEAVE A 1- TO 1.5-IN SPACE BETWEEN LAGGING BOARDS AND IMMEDIATELY BACKFILL OR GROUT.
- NO MATERIAL STORAGE SHALL BE PLACED WITHIN 10-FT OF EXCAVATION PERIMETER.
- BOTTOM OF EXCAVATION ELEVATION AS SHOWN ON THESE DRAWINGS SHALL BE VERIFIED AND COORDINATED IN FIELD WITH CONTRACT DOCUMENTS.
- EXCAVATION ELEVATIONS SHOWN ON THESE DRAWINGS ARE BASED ON ELEVATIONS SHOWN ON DESIGN STRUCTURAL / ARCHITECTURAL DRAWINGS. ADDITIONAL EXCAVATION MAY BE REQUIRED AS PER STRUCTURAL DESIGN AND CONSTRUCTION REQUIREMENTS.
- USE HAND TOOLS TO EXCAVATE WITHIN 5-FT OF UNDERGROUND UTILITIES.
- PROVIDE BLOCK OUTS USING HIGH DENSITY FOAM IN CONCRETE STRUCTURE WHERE SHORING STRUCTURE ELEMENTS PENETRATE NEW FOUNDATION WALL.
- THOUGH USUALLY SMALL, SETTLEMENT NEARLY ALWAYS ACCOMPANIES EXCAVATION / UNDERPINNING / SHEETING WORK. THE AMOUNT OF SETTLEMENT, IF ANY, WILL VARY BASED ON THE TYPE OF BUILDING, THE CLASS OF SOILS UPON WHICH IT RESTS, THE PRESENCE OR ABSENCE OF GROUNDWATER, THE RESERVE FOUNDATION LOAD CAPACITY OF THE ORIGINAL FOUNDATION AND THE EXCELLENCE AND CARE OF THE WORKMANSHIP OF THE CONTRACTOR INSTALLING THE EXCAVATION / UNDERPINNING / SHEETING. BY USING THESE DRAWINGS TO COMPLETE THE EXCAVATION / UNDERPINNING / SHEETING WORK, THE CONTRACTOR AND THE OWNER UNDERSTAND THE INHERENT RISK AND ASSUME ALL RESPONSIBILITY FOR THE EFFECTS OF ANY SETTLEMENT THAT MIGHT OCCUR. ALL EXCAVATION / UNDERPINNING / SHEETING WORK SHALL BE STOPPED IMMEDIATELY AND THE ENGINEER OF RECORD SHALL BE NOTIFIED IF SETTLEMENTS SHOULD EXCEED 1/4-IN.
- HAY OR FILTER FABRIC SHALL BE USED TO MINIMIZE MIGRATION OF FINES INTO THE EXCAVATION AREA.

DRAINAGE NOTES:

NO CONDITION SHALL BE CREATED AS A RESULT OF CONSTRUCTION OR DEMOLITION OPERATIONS THAT WILL INTERFERE WITH NATURAL SURFACE DRAINAGE, WATER COURSES, DRAINAGE DITCHES, ETC. SHALL NOT BE OBSTRUCTED BY REFUSE, WASTE BUILDING MATERIALS, EARTH, STONES, TREE STUMPS, BRANCHES, OR OTHER DEBRIS THAT MAY INTERFERE WITH SURFACE DRAINAGE OR CAUSE THE IMPONDMENT OF SURFACE WATERS.

- PROTECTION OF FOUNDATIONS: PROVISION SHALL BE MADE TO PREVENT THE ACCUMULATION OF WATER OR WATER DAMAGE TO ANY FOUNDATIONS ON THE PREMISES OR TO ADJOINING PROPERTY.
- DRAINAGE OF EXCAVATIONS: ALL EXCAVATIONS SHALL BE DRAINED, AND THE DRAINAGE SHALL BE MAINTAINED AS LONG AS THE EXCAVATION CONTINUES OR REMAINS. WHERE NECESSARY, PUMPING SHALL BE USED, PROVIDED PROPER PERMITS ARE OBTAINED FROM THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- CLOGGING: PRECAUTIONS SHALL BE TAKEN TO PREVENT CONCRETE OR MORTAR WASHINGS, SAND, GRIT, OR ANY OTHER MATERIAL THAT WOULD CAUSE CLOGGING FROM ENTERING A SEWER OR DRAIN. CONCRETE WASHOUT WATER SHALL ALSO MEET THE REQUIREMENTS OF NYC BC SECTION 3303.15.

STRUCTURAL STABILITY NOTES:

- SPECIAL INSPECTION OF THE STABILITY AND INTEGRITY OF EXISTING STRUCTURES DURING CONSTRUCTION OPERATIONS IS REQUIRED BY THE NEW YORK CITY BUILDING CODE CHAPTER 17.
- CONTRACTOR SHALL PREPARE A STRUCTURAL STABILITY PLAN, TO BE SUBMITTED TO THE STRUCTURAL ENGINEER (SIGNED AND SEALED BY THE PROFESSIONAL ENGINEERS RESPONSIBLE FOR ITS DESIGN) FOR REVIEW, AND APPROVAL PRIOR TO ANY DEMOLITION WORK OR MODIFICATIONS TO THE EXISTING STRUCTURE. THIS STRUCTURAL STABILITY PLAN SHALL INCLUDE:
 - LAYOUT AND DETAILS OF SHORING, BRACING, UNDERPINNING AND OTHER WORK REQUIRED TO MAINTAIN THE STABILITY AND INTEGRITY OF THE STRUCTURE DURING CONSTRUCTION OPERATIONS.
 - PHASING, STAGING, AND SEQUENCING OF SUCH OPERATIONS.
 - DESIGN LOADS FOR WHICH THE STABILITY SYSTEM HAS BEEN DESIGNED.
- OWNER SHALL RETAIN A LICENSED PROFESSIONAL ENGINEER TO PERFORM THE STRUCTURAL STABILITY INSPECTION. THE CONTROLLED INSPECTION ENGINEER SHALL MAINTAIN RECORDS AS REQUIRED BY THE NEW YORK CITY BUILDING CODE. THE CONTROLLED INSPECTION ENGINEER SHALL USE THE STRUCTURAL STABILITY PLAN PREPARED BY THE CONTRACTOR AND APPROVED BY THE STRUCTURAL ENGINEER AS THE BASIS FOR THE CONTROLLED INSPECTIONS.

REFERENCES:

- ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- SOE PLANS AND SECTIONS ARE BASED ON:
 - ARCHITECTURAL SURVEY BY TRIBOROUGH SURVEYING INC. DATED DECEMBER 2, 2021.
 - ARCHITECTURAL DRAWINGS BY JOSEPH VANCE ARCHITECTS, RECEIVED ON DECEMBER 13, 2021.
 - STRUCTURAL DRAWINGS BY STRUCTURAL ENGINEERING TECHNOLOGIES, DATED MARCH 24, 2021.
- SUB-SURFACE INFORMATION OBTAINED FROM:
 - BORING LOGS BY STRUCTURAL ENGINEERING TECHNOLOGIES, P.C. DATED NOVEMBER 9, 2021.
 - TEST PIT LOGS BY PG ENVIRONMENTAL SERVICES INC., DATED DECEMBER 4, 2021.
- LOCATIONS AND ELEVATIONS OF ALL PROPOSED STRUCTURAL BUILDING ELEMENTS SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND SHALL BE SUPERSEDED BY FINAL STRUCTURAL AND ARCHITECTURAL DRAWINGS.

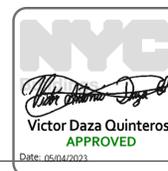


CONSULTING STRUCTURAL, GEOTECHNICAL, & ENVIRONMENTAL ENGINEERS

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ALL RIGHTS RESERVED
ALL DRAWINGS SPECIFICATIONS AND COPIES THEREOF FURNISHED BY S.E.T., P.C. ARE AND WILL REMAIN THEIR PROPERTY. THEY ARE NOT TO BE USED ON THIS OR ANY OTHER PROJECT UNLESS WRITTEN PERMISSION IS GIVEN.

OWNER:



NOTE:

STRUCTURAL ENGINEERING TECHNOLOGIES, P.C. HAS NOT BEEN RETAINED TO PERFORM CONTROLLED INSPECTIONS OF ANY KIND FOR THIS PROJECT.

THE DESIGN PROFESSIONAL SHALL BE RELEASED FROM ANY AND ALL LIABILITY IN THE COMMENCEMENT OF ANY WORK PERFORMED WITHIN THESE DOCUMENTS PRIOR TO OBTAINING ALL REQUIRED PERMITS FROM THE RESPECTIVE JURISDICTIONAL AGENCIES

NO.	DATE	DESCRIPTION
	05/01/23	UPDATED FOR PAA
	04/12/23	UPDATED
	03/09/23	PER FO
	02/02/23	UPDATED
	11/02/22	UPDATED
	08/08/22	PER DOB
	07/01/22	UPDATED FOR FILING
	05/04/22	FILING SET
	03/25/22	PRELIMINARY

REVISIONS:

PROJECT

920 METROPOLITAN AVENUE
BROOKLYN, NY 11211

DRAWING TITLE:

GENERAL NOTES

SEAL & SIGNATURE



DATE: 02-21-2022
SCALE: AS NOTED
DRAWING BY: A.M.C.
CHECKED BY: R.G.
DWG NO:
SOE-001.01

SHEET NO: 02 OF 9

BSCAN STICKER

DOB APPROVAL STAMP

DOB JOB #B00715872-P4

NEW YORK CITY BUILDING CODE COMPLIANCE NOTES:

1. **DEWATERING NOTES:**
AS PER BC10704.21, THE PERSON CAUSING THE SOIL OR FOUNDATION WORK TO BE PERFORMED SHALL DEWATER THE SITE, AS NEEDED, FOR THE PROGRESS OF THE WORK. MEASURES SHALL BE TAKEN TO PREVENT SETTLEMENT, SLOPE FAILURE, AND DAMAGE TO ADJACENT BUILDINGS, STRUCTURES, AND PROPERTY AFFECTED BY DEWATER OPERATIONS.
2. **DRAINAGE NOTES:**
AS PER BC 3303.14, NO CONDITION SHALL BE CREATED AS A RESULT OF CONSTRUCTION OR DEMOLITION OPERATIONS THAT WILL INTERFERE WITH NATURAL SURFACE DRAINAGE. WATER COURSES, DRAINAGE DITCHES, ETC., SHALL NOT BE OBSTRUCTED BY REFUSE, WASTE BUILDING MATERIALS, EARTH, STONES, TREE STUMPS, BRANCHES, OR OTHER DEBRIS THAT MAY INTERFERE WITH SURFACE DRAINAGE OR CAUSE THE IMPOUNDMENT OF SURFACE WATERS.
 - 2.1 **PROTECTION OF FOUNDATIONS**
AS PER BC 3303.14.1, PROVISION SHALL BE MADE TO PREVENT THE ACCUMULATION OF WATER OR WATER DAMAGE TO ANY FOUNDATIONS ON THE PREMISES OR TO ADJOINING PROPERTY.
 - 2.2 **DRAINAGE OF EXCAVATIONS**
AS PER 3303.14.2, ALL EXCAVATIONS SHALL BE DRAINED, AND THE DRAINAGE SHALL BE MAINTAINED AS LONG AS THE EXCAVATION CONTINUES OR REMAINS. WHERE NECESSARY, PUMPING SHALL BE USED, PROVIDED PROPER PERMITS ARE OBTAINED FROM THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 - 2.3 **LOGGING**
AS PER 3303.14.3, PRECAUTIONS SHALL BE TAKEN TO PREVENT CONCRETE OR MORTAR WASHINGS, SAND, GRIT, OR ANY OTHER MATERIAL THAT WOULD CAUSE CLOGGING FROM ENTERING A SEWER OR DRAIN. CONCRETE WASHOUT WATER SHALL ALSO MEET THE REQUIREMENTS OF NYC BC SECTION 3303.15.
3. **FLOOD-RESISTANT CONSTRUCTION NOTES:**
AS PER BC APPENDIX G, CONDITIONS SHALL PROMOTE THE PUBLIC HEALTH, SAFETY AND GENERAL WELFARE AND TO MINIMIZE PUBLIC AND PRIVATE LOSSES DUE TO FLOOD CONDITIONS IN SPECIFIC FLOOD HAZARD AREAS THROUGH THE ESTABLISHMENT OF COMPREHENSIVE REGULATIONS FOR MANAGEMENT OF FLOOD HAZARD DESIGNED TO:
 - 3.1 **PURPOSE**
 - 3.1.1 PREVENT UNNECESSARY DISRUPTION OF COMMERCE, ACCESS AND PUBLIC SERVICE DURING TIMES OF FLOODING;
 - 3.1.2 MANAGE THE ALTERATION OF NATURAL FLOOD PLAINS, STREAM CHANNELS AND SHORELINES;
 - 3.1.3 MANAGE FILLING, GRADING, DREDGING AND OTHER DEVELOPMENT WHICH MAY INCREASE FLOOD DAMAGE OR EROSION POTENTIAL;
 - 3.1.4 PREVENT OR REGULATE THE CONSTRUCTION OF FLOOD BARRIERS WHICH WILL DIVERT FLOODWATERS OR WHICH CAN INCREASE FLOOD HAZARDS;
 - 3.1.5 CONTRIBUTE TO IMPROVED CONSTRUCTION TECHNIQUES IN THE FLOOD PLAIN; AND
 - 3.1.6 COMPLY WITH AND EXCEED THE MINIMUM STANDARDS OF THE NATIONAL FLOOD INSURANCE PROGRAM AS ADMINISTERED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).
 - 3.2 **SITE IMPROVEMENT - RETAINING WALLS, DRIVEWAYS, GRADING & FILL**
 - 3.2.1 RETAINING WALL'S GRADING AND FILL COMPLIES WITH REQUIREMENTS IN BC G303.6 & G303.7.
4. **SOILS & FOUNDATIONS DESIGN LOAD NOTES:**
AS PER BC CHAPTER 18 & BC 107.7.1, FOUNDATION PLANS SHALL DEMONSTRATE CODE COMPLIANCE REGARDING DESIGN LOADS, DESIGN ELEVATIONS, AND DETAILS AS TO SIZES, CURE STRENGTHS AND REINFORCEMENTS.
 - 4.1 **ALLOWABLE BEARING PRESSURES, ALLOWABLE STRESSES AND DESIGN FORMULAS**
AS PER BC CHAPTER 18, DESIGN FORMULAS SHALL BE USED WITH THE ALLOWABLE STRESS DESIGN LOAD COMBINATIONS SPECIFIED IN SECTION 1605.3, THE QUALITY AND DESIGN OF MATERIALS USED STRUCTURALLY IN EXCAVATIONS AND FOUNDATIONS SHALL CONFORM TO THE REQUIREMENTS SPECIFIED IN CHAPTERS 16, 19, 21, 22 AND 23, OTHERWISE, AS PER PROJECT SPECIFIED.
5. **CONSTRUCTION OPERATIONS NOTES:**
AS REQUIRED IN BC 3303.14 & BC 3304.10, CONSTRUCTION OPERATIONS HAVE ACCOUNTED FOR THE PREVENTION OF ACCUMULATION OF WATER, WHICH COULD CAUSE DAMAGE TO NEARBY BUILDING FOUNDATIONS ON THE SUBJECT PROPERTY OR ON ADJACENT PROPERTIES.
6. **RODENT-PROOFING NOTES:**
AS PER BC F102.1, FOR WALLS OR PORTIONS THEREOF WITHIN 2 FEET OF THE OUTSIDE GROUND LEVEL, AND FOR WALLS BELOW THE OUTSIDE GROUND LEVEL, ALL OPENINGS, INCLUDING BUT NOT LIMITED TO, ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, AND CONDUITS, SHALL BE PROTECTED BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY, METAL PLATES OR SCREENING DESIGNED TO PREVENT THE PASSAGE OF RODENTS.
7. **SEISMIC LOAD NOTES:**
AS PER BC 1613, EVERY STRUCTURE, AND PORTION THEREOF, INCLUDING NONSTRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7-10, EXCLUDING CHAPTER 14 AND APPENDIX 11A. THE SEISMIC DESIGN CATEGORY FOR A STRUCTURE SHALL BE DETERMINED IN ACCORDANCE WITH EITHER SECTION 1613 OR ASCE 7-10.
 - 7.1 SEISMIC LOAD IS COMPLIANCE WITH NEW YORK CITY SEISMIC CODE: LOCAL LAW 17/95.
8. **SHORING & BRACING NOTES:**
AS PER BC 3305.3.2.6, WHEN PATENTED OR COMMERCIAL DEVICES THAT ARE NOT SUSCEPTIBLE TO DESIGN ARE USED FOR SHORING, BRACING, OR SPLICING, THEY SHALL BE APPROVED BY THE NYC DOB COMMISSIONER. SPLICES SHALL DEVELOP THE FULL STRENGTH OF THE SPLICED MEMBERS. WHERE SHORE HEIGHT EXCEEDS 10 FEET OR WHEN NECESSARY TO PROVIDE STRUCTURAL STABILITY, DIAGONAL BRACING SHALL BE PROVIDED. STRUTS, ANCHORED INTO MASONRY OR TO PANEL JOINTS OF ADJACENT BRACED BAYS MAY BE USED TO PREVENT BUCKLING OF INDIVIDUAL MEMBERS NOT SUPPORTED BY THE DIAGONAL BRACING, BUT BRACING AN ENTIRE TIER OF SHORES WITH STRUTS WITHOUT DIAGONAL BRACING SHALL BE PROHIBITED UNLESS THE SYSTEM CAN BE DEMONSTRATED TO BE BRACED BY OTHER RIGID CONSTRUCTION. THE UNBRACED LENGTH OF SHORES SHALL NOT EXCEED THE MAXIMUM LENGTH DETERMINED IN ACCORDANCE WITH THE REQUIREMENTS OF NYC BC 3305.3.2.6 FOR THE STRUCTURAL MATERIAL USED.
9. **SOIL & ROCK SAMPLING NOTES:**
AS PER BC 1802.5, THE SOIL ROCK CLASSIFICATIONS, NEEDED TO DETERMINE THE PROPER FOUNDATION DESIGN, ARE BASED ON MATERIALS OBTAINED FROM BORINGS, TEST PITS OR OTHER SUBSURFACE EXPLORATION METHODS AS ALLOWED.

UNDERPINNING NOTES:

1. A PRE-CONSTRUCTION SURVEY SHALL BE PERFORMED ON THE BUILDING TO BE UNDERPINNED BY AN INDEPENDENT PROFESSIONAL IN ORDER TO DOCUMENT EXISTING CONDITIONS OF THE BUILDING. PAY PARTICULAR ATTENTION TO AND DOCUMENT SIGNS OF EXISTING STRESS INCLUDING CRACKS, SAGGING, TIGHT DOORS, ETC. THE SURVEY SHALL INCLUDE EACH FLOOR, BOTH INSIDE AND OUT, AND SHALL INCLUDE PICTURES, MEASUREMENTS, ETC.
2. THE CONTRACTOR SHALL OBTAIN AN AGREEMENT WITH NEIGHBOR TO UNDERPIN THEIR BUILDING. NO UNDERPINNING IS TO BE PERFORMED UNTIL SUCH AGREEMENT IS EXECUTED.
3. THE CONTRACTOR SHALL VERIFY THE BOTTOM OF EXISTING FOOTING ELEVATIONS AND LOCATE ALL ADJACENT UTILITIES IN THE FIELD.
4. ALL UNDERPINNING OPERATIONS SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER PROVIDING SPECIAL INSPECTION SERVICES.
5. INSPECTOR FOR SPECIAL INSPECTION SHALL BE NOTIFIED A MINIMUM OF 72 HOURS IN ADVANCE OF ANY UNDERPINNING WORK.
6. ALL EXCAVATION FOR UNDERPINNING SHALL BE COMPLETED BY HAND, WITHIN SHEETED PITS, AS SHOWN ON THE DETAILS AND SECTIONS.
7. EXCAVATION FOR UNDERPINNING PIERS MUST BE PERFORMED IN THE DRY. DEWATERING MAY BE NECESSARY PRIOR TO EXCAVATION TO MAINTAIN GROUNDWATER LEVEL A MINIMUM OF 1-FT BELOW THE PROPOSED UNDERPINNING PIER SUBGRADE LEVEL. HAY OR FILTER FABRIC SHALL BE USED TO MINIMIZE MIGRATION OF FINES INTO THE EXCAVATION AREA.
8. DEPTH OF EXCAVATION BELOW FOOTING AND PREVIOUSLY INSTALLED LAGGING BOARDS SHALL NOT EXCEED 18-IN. MAINTAIN TIGHT CONTACT BETWEEN SOIL AND LAGGING BOARDS. IF MATERIAL IS CAVING INTO THE EXCAVATION AREA, DECREASE THE UNBRACED EXCAVATION DEPTH AND/OR GROUT THE MATERIAL TO MINIMIZE LOSS.
9. IF MATERIAL BEHIND LAGGING IS LOST OR DISTURBED, LEAVE A 1- TO 1.5-IN SPACE BETWEEN LAGGING BOARDS TO IMMEDIATELY BACKFILL OR GROUT.
10. IF THE SOILS TO BE SHEETED AND EXCAVATED FOR UNDERPINNING PIERS ARE FOUND TO BE LOOSE, LACKING COHERENCE, AND HAVING A TENDENCY TO "RUN", MAKING THE INSTALLATION OF THE HORIZONTAL TIMBER SHEETING DIFFICULT OR IMPOSSIBLE, THE CONTRACTOR SHALL EMPLOY THE SERVICES OF A GROUTING SUBCONTRACTOR TO STABILIZE THE SOIL PRIOR TO EXCAVATING. CONTRACTOR TO IMMEDIATELY INFORM ENGINEER OF RECORD IF THIS CONDITION OCCURS, AND MAY ALSO PROPOSE ANOTHER REMEDIAL METHOD FOR SOIL STABILIZATION TO S.E.T., P.C. FOR REVIEW.
11. GROUTING TO STABILIZE SOIL AT UNDERPINNING PITS SHALL BE PERFORMED USING SODIUM SILICATE OR MICRO-FINE CEMENT. GROUT MIX DESIGN, EQUIPMENT, DRILLING PROCEDURES, AND SEQUENCE SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO S.E.T., P.C. FOR REVIEW.
12. UNDERPINNING PIER SUBGRADE BEARING MATERIAL SHALL BE OF EQUAL OR BETTER CLASS THAN THE ORIGINAL BEARING MATERIAL.
13. MAXIMUM UNDERPINNING PIT WIDTH IS 4-FT FOR CONCRETE FOOTINGS OR 3-FT FOR RUBBLE FOOTINGS UNLESS OTHERWISE NOTED ON THESE DRAWINGS. UNDERPINNING WIDTH MAY BE REDUCED BASED ON S.E.T., P.C. FIELD OBSERVATIONS.
14. NO TWO UNDERPINNING PITS CLOSER THAN 12-FT CENTER TO CENTER, NOR TWO ADJACENT COLUMN FOOTINGS MAY BE UNDERPINNED CONCURRENTLY.
15. EXISTING STONE RUBBLE WALLS TO BE UNDERPINNED SHALL BE TREATED BY PRESSURE INJECTED GROUT OR CEMENT PARGING AT THE DIRECTION OF S.E.T., P.C.
16. ANY LOSS OF STONES FROM EXISTING STONE FOOTINGS OR SIGNS OF INSTABILITY IN THE STONE FOOTING SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. STEEL PLATES WITH TIMBER POSTS SHALL BE REQUIRED TO SUPPORT ANY LOOSE STONES OR UNSTABLE AREAS DURING EXCAVATION AND CONCRETING.
17. APPROACH PITS FOR UNDERPINNING SHOULD CAUSE MINIMAL DISTURBANCE TO SOIL SUBGRADE BELOW THE FOOTING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGN THE APPROACH PITS AND EXCAVATE PITS FOLLOWING OSHA AND LOCAL LAWS.
18. EXCAVATE PITS SUCH THAT A MINIMUM OF 12-FT OF UNDISTURBED SOIL OR CURED UNDERPINNING PIER IS MAINTAINED BETWEEN OPEN PITS UNTIL ALL UNDERPINNING IS COMPLETE UNLESS APPROVED BY S.E.T., P.C.
19. DO NOT LEAVE PITS OPEN OVERNIGHT OR DURING WEEKENDS OR HOLIDAYS UNLESS OTHERWISE PERMITTED BY S.E.T., P.C.
20. UNDERPINNING SHALL BE INSTALLED IN A MANNER SUCH THAT THE EXPOSED FACE OF THE CONCRETE IS VERTICAL (OR AS OTHERWISE SPECIFIED), CLEAN, AND NEAT.
21. UNDERPINNING SHALL BE CONSTRUCTED IN ONE VERTICAL LIFT. THE LIFT SHALL BE WITHOUT INTERMEDIATE HORIZONTAL CONSTRUCTION JOINTS (COLD JOINTS).
22. DEEPER UNDERPINNING PIERS SHALL BE CONSTRUCTED PRIOR TO INSTALLING IMMEDIATELY ADJACENT SHALLOWER PIERS.
23. UNDERPINNING PIERS SHALL BE CARRIED DOWN TO THE ELEVATIONS SHOWN OR TO DRY COMPETENT SOIL, WHICHEVER IS DEEPER. COMPETENT SOIL SHALL BE VERIFIED BY THE ENGINEER. IF COMPETENT SOIL IS NOT FOUND AT THE ELEVATIONS SHOWN ON THE DRAWINGS, THE SPECIAL INSPECTOR SHALL REVIEW THE FIELD CONDITIONS AND MAKE NECESSARY RECOMMENDATIONS TO S.E.T., P.C.
24. LINE DRILL BEDROCK ADJACENT TO ALL FOUNDATION WALLS PRIOR TO ROCK REMOVAL.
25. BOTTOM OF UNDERPINNING CAN BEAR ON CLASS 1B BEDROCK OR BETTER ABOVE UNDERPINNING SUBGRADE LEVEL SHOWN ON THESE DRAWINGS AS DETERMINED BY THE ENGINEER.
26. UNDERPINNING PIERS CAN BE ELIMINATED IF THE EXISTING FOOTING IS BEARING ON CLASS 1B BEDROCK OR BETTER AS DETERMINED BY THE ENGINEER.

DRILLED IN SOLDIER PILE AND LAGGING NOTES:

1. ALL SOLDIER PILES SHALL BE INSTALLED IN THE LOCATION SHOWN ON THESE DRAWINGS.
2. THE CONTRACTOR SHALL PERFORM UTILITY IDENTIFICATION AND EXPLORATION AS NECESSARY PRIOR TO THE DRILLING OPERATIONS.
3. SOLDIER PILE CASING SHALL BE INSTALLED USING INTERNAL FLUSH DUPLEX DRILLING METHOD.
4. NO LOSS OF MATERIAL FROM THE OUTSIDE OF THE SOLDIER PILE IS PERMITTED. THE CONTRACTOR SHALL ADOPT THE NECESSARY DRILLING PROCEDURES TO PREVENT LOSS OF MATERIAL BETWEEN THE ANNULUS AND THE SOLDIER PILE.
5. THE CONTRACTOR SHALL ADJUST DRILLING PROCEDURES AS REQUIRED TO PREVENT SETTLEMENT AND LATERAL MOVEMENT OF BUILDINGS, UTILITIES, AND OTHER STRUCTURES.
6. STEEL CASING SHALL HAVE A MINIMUM WALL THICKNESS OF 0.5-IN. SPLICES IN CASINGS SHALL BE THREADED AND FULLY TIGHTENED.
7. THE BOTTOM CASING OF EACH SOLDIER PILE SHALL BE PROTECTED BY A HIGH-STRENGTH CUTTING SHOE WITH HARDENED CUTTING EDGE.
8. NO CONCRETE OR GROUT SHALL BE PLACED AT ANY SOLDIER PILE LOCATION UNTIL TIP ELEVATION HAS BEEN CONFIRMED, CLEANED OF MUD AND ANY EXTRANEOUS MATERIAL, AND INSPECTED AND APPROVED BY THE SPECIAL INSPECTOR.
9. CONCRETE OR GROUT SHALL BE PLACED CONTINUOUSLY FOR THE FULL DEPTH OF THE SOLDIER PILE STARTING AT THE BOTTOM OF THE SOCKET AND UP TO THE DESIGNED CUTOFF ELEVATION. NO COLD JOINT IS ALLOWED.
10. THE ENGINEER MAY DIRECT AN INCREASE IN SOLDIER PILE LENGTH FROM THAT SPECIFIED ON THESE DRAWINGS IF INFERIOR SOIL OR ROCK IS ENCOUNTERED ABOVE THE ORIGINAL MINIMUM TIP ELEVATION.
11. NO SOLDIER PILE SHALL BE OUT OF PLUMB MORE THAN ONE PERCENT (1%) OF ITS EMBEDDED LENGTH.
12. IF ANY OF THE ABOVE TOLERANCES ARE EXCEEDED, AND IN THE OPINION OF THE ENGINEER REQUIRES CORRECTIVE MEASURES, SUCH CORRECTIVE MEASURES, INCLUDING COSTS OF ENGINEERING AND REDESIGN, SHALL BE PAID FOR BY THE CONTRACTOR.
13. BEFORE LATERAL BRACING (ANCHORS AND/OR RAKERS) IS INSTALLED, MAXIMUM EXCAVATION BELOW BRACING LEVEL IS 1.5-FT UNLESS NOTED ON THESE DRAWINGS.
14. LATERAL BRACING AND SHEETING/SHORING SHALL NOT BE REMOVED UNTIL THE NEW GROUND FLOOR SLAB IS INSTALLED AND THE NEW CONCRETE HAS REACHED THE DESIGN COMPRESSIVE STRENGTH.
15. AT COMPLETION OF THE NEW STRUCTURE, BURN OFF SOLDIER PILES 1-FT BELOW PROPOSED FINISH GRADE.
16. INSTALL CONTROLLED BACKFILL IN ACCORDANCE WITH DESIGN DOCUMENTS, AS REQUIRED.

MATERIALS AND TESTING NOTES:

1. THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT TESTING COMPANY.
2. STRUCTURAL CONCRETE FOR UNDERPINNING PIERS SHALL HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 4000-PSI AT 28 DAYS.
3. CONCRETE PLACEMENT TIME SHALL NOT EXCEED 2 HOURS OR AS RECOMMENDED BY THE TESTING COMPANY.
4. MAKE A SET OF MINIMUM 5 CYLINDERS EACH DAY GROUT IS BEING PLACED FOR SOLDIER PILES.
5. PERFORM COMPRESSION TEST ON 1 CYLINDER AT 7 DAYS AND 1 AT 14 DAYS. IF THE DESIGN STRENGTH IS ACHIEVED AT 14 DAYS, NO FURTHER TESTING IS REQUIRED, OTHERWISE TEST 1 OR 2 CYLINDERS AT 28 DAYS. 1 OR 2 SAMPLES SHALL BE SAVED FOR 56 DAYS TESTING IF THE PREVIOUS CYLINDERS FAIL TO MEET DESIGN STRENGTH REQUIREMENTS.
6. PROVIDE TESTING RESULTS TO THE CONTRACTOR.
7. IF THE DESIGN STRENGTH REQUIREMENTS ARE NOT MET, APPROVED REMEDIATION SHALL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
8. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.1 USING E-70 ELECTRODES.
9. ALL STRUCTURAL STEEL SHALL BE GRADE 50, ASTM A-572.
10. 1-BAG MIX SHALL CONSIST OF 1 94-LB BAG OF CEMENT TO 1 CUBIC YARD OF SAND. QUANTITY OF WATER SHALL BE ADEQUATE TO ALLOW THE MIX TO FLOW.
11. TIMBER LAGGING SHALL BE ROUGH CUT, FULL SIZE CONSTRUCTION GRADE, WITH A MINIMUM ALLOWABLE BENDING STRESS OF 1600-PSI.
12. MISCELLANEOUS STEEL (PLATES AND WEDGES) SHALL BE ASTM A-36.
13. SOLDIER PILE CASING STEEL SHALL BE GRADE B (42-KSI), ASTM A500.
14. POST-INSTALLED ANCHORS SHALL BE GRADE 36, ASTM F1554.

DEWATERING NOTES:

1. ANY WATER INFLOW INTO THE EXCAVATION AREA SHALL BE CONTROLLED BY SUMPING OR OTHER SUITABLE METHODS. DISPOSAL OF WATER SHALL BE MADE OUT OF THE EXCAVATED AREA IN ACCORDANCE WITH LOCAL REGULATIONS. THE ELEVATION OF THE WATER LEVELS BEYOND THE LIMITS OF THE PROJECT SITE SHALL NOT BE LOWERED SO AS TO CAUSE DISTRESS AND/OR SETTLEMENT TO ADJOINING STRUCTURES. CONTRACTOR SHALL PROVIDE MEANS AND METHODS TO PREVENT LOSS OF FINES DURING DEWATERING.
2. GROUNDWATER WAS NOT ENCOUNTERED WITHIN EXCAVATION SUBGRADE DURING THE SUBSURFACE INVESTIGATION. DEWATERING IS NOT REQUIRED.
3. THE CONTRACTOR SHALL REMOVE THE PERCH WATER USING SUMPS AND PUMPS IF ENCOUNTERED DUE TO PRECIPITATION AND/OR OTHER FACTORS. .



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NO.	DATE	DESCRIPTION
	08/08/22	PER DOB
	07/01/22	UPDATED FOR FILING
	05/04/22	FILING SET
	03/25/22	PRELIMINARY

REVISIONS:

PROJECT

920 METROPOLITAN AVENUE, BROOKLYN, NY 11211

DRAWING TITLE:

GENERAL NOTES

SEAL & SIGNATURE



DATE: 02-21-2022
SCALE: AS NOTED
DRAWING BY: A.M.C.
CHECKED BY: R.G.
DWG NO: SOE-002.00
SHEET NO: 03 OF 09

BSCAN STICKER



DOB JOB #B00715872-S1



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NO.	DATE	DESCRIPTION
	05/01/23	UPDATED FOR PAA
	04/12/23	UPDATED
	03/09/23	PER FO
	02/02/23	UPDATED
	11/02/22	UPDATED
	08/08/22	PER DOB
	07/01/22	UPDATED FOR FILING
	05/04/22	FILING SET
	03/25/22	PRELIMINARY

REVISIONS:

PROJECT

920 METROPOLITAN AVENUE
BROOKLYN, NY 11211

DRAWING TITLE:

SUPPORT OF EXCAVATION PLAN

SEAL & SIGNATURE



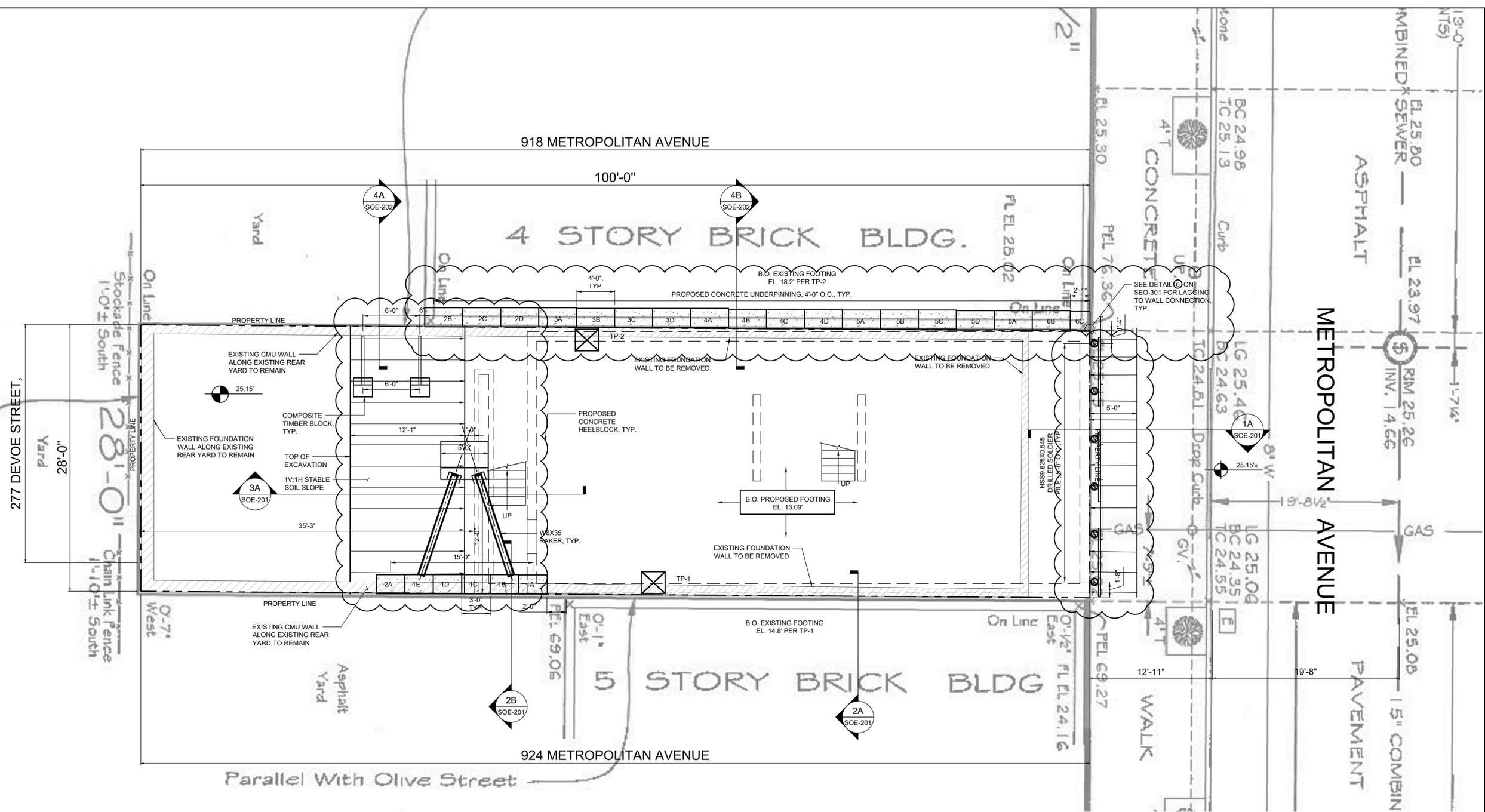
DATE: 02-21-2022
SCALE: AS NOTED
DRAWING BY: A.M.C.
CHECKED BY: R.G.
DWG NO: SOE-101.01

SHEET NO: 04 OF 9

BSCAN STICKER

DOB APPROVAL STAMP

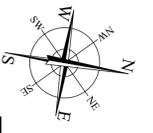
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SUPPORT OF EXCAVATION PLAN

SCALE: 3/32" = 1' - 0"

- NOTES:**
- TOP OF CELLAR ELEVATION IS AT EL. 15.09'. ELEVATIONS ARE BASED ON NAVD88.
 - DONATES TOP OF EXISTING GRADE/SIDEWALK ELEVATION.
 - PRIOR TO CONSTRUCTION, IT IS REQUIRED THAT OWNER CONDUCT A CONDITION SURVEY AND PRECONSTRUCTION STRUCTURAL STABILITY REPORT OF ADJACENT PROPERTIES INCLUDING DATED PHOTOGRAPHS, IN ORDER TO DOCUMENT PRE-EXISTING CONDITIONS SUCH AS CRACKS, DETERIORATIONS, ETC. IF ANY CRACKS EXIST ON THE ADJACENT PROPERTIES, IT IS FURTHER RECOMMENDED THAT CRACK MONITORS BE INSTALLED AT LOCATIONS DICTATED BY ENGINEER, AND BE MONITORED AT LEAST ONCE A WEEK DURING CONSTRUCTION (BY ENGINEER OR CRACK MONITORING COMPANY).
 - PRIOR TO CONSTRUCTION, NEW YORK STATE LICENSED LAND SURVEYOR TO ESTABLISH VERTICAL WALL PLANES ALONG PROPERTY LINES, IN ORDER TO LOCATE ANY LINE INCURSIONS BY ADJACENT BUILDINGS ON TO THIS SITE. IF SUCH INCURSIONS OCCUR (I.E. TOP OF ADJACENT BUILDING "LEANS" INTO THIS SITE, ETC.) CONTRACTOR MUST ADJUST BUILDING WALL LINE ACCORDINGLY.
 - OWNER/CONTRACTOR TO OBTAIN WRITTEN PERMISSION/CONSENT FROM ADJACENT BUILDING/OWNER TO PLACE SOLDIER PILES, LAGGINGS, AND UNDERPINNING WITHIN THEIR PROPERTY, AND WRITTEN PERMISSION TO RESTORE SAME PROPERTY TO ORIGINAL CONDITIONS.
 - PRIOR TO CONSTRUCTION, IT IS REQUIRED THAT A MONITORING PLAN BE ESTABLISHED BY OWNER, ENGINEER AND CONTRACTOR FOR MONITORING VIBRATION, SOIL MOVEMENT, ETC. DURING EXCAVATION, UNDERPINNING, SHEETING, AND LAGGING OPERATIONS.



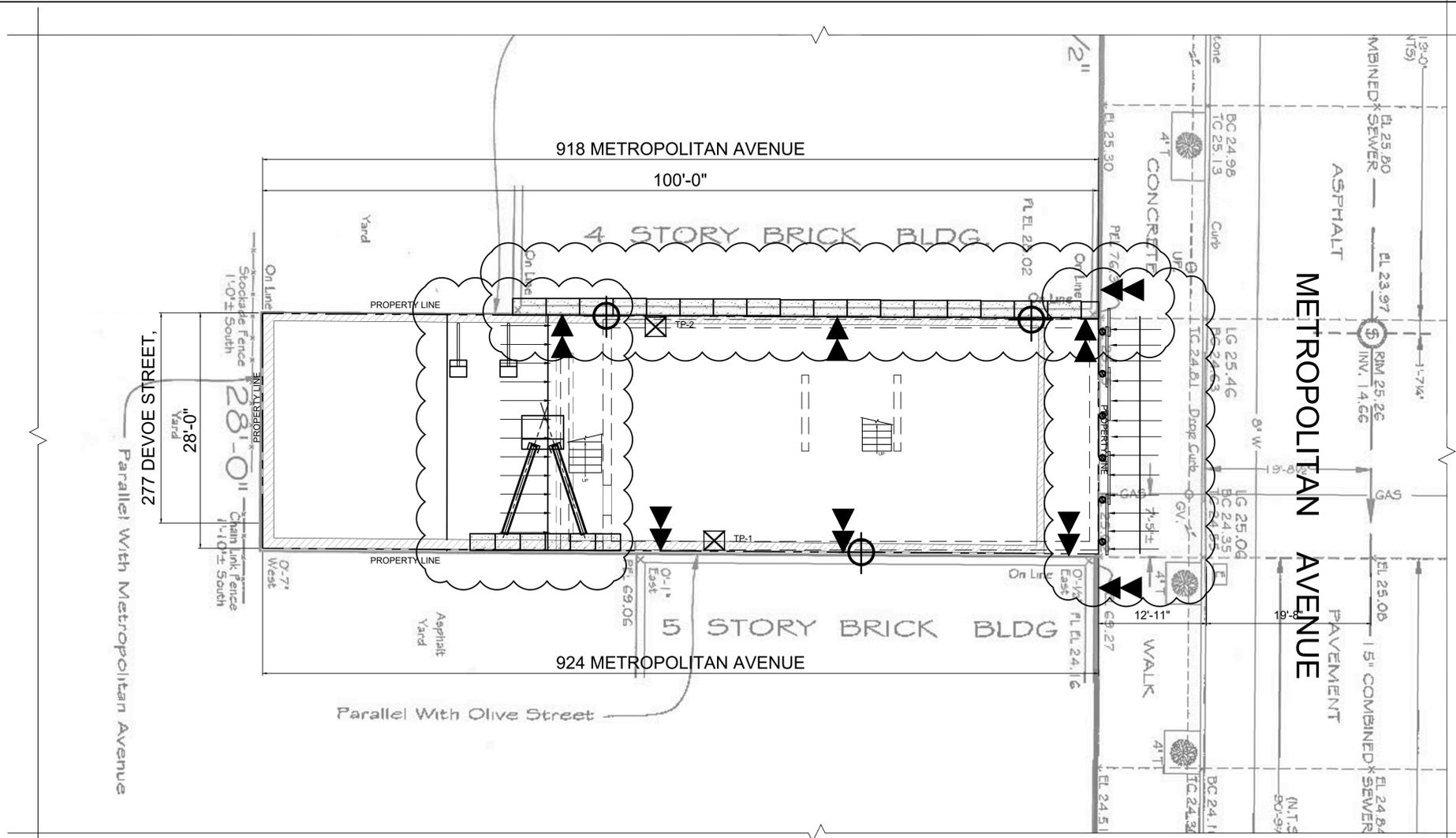
LEGEND:

	SOIL SLOPE DIRECTION OF STABLE SOIL SLOPE
	PERIMETER OF ADJACENT BUILDING
	SPOT ELEVATION
	B-X APPROXIMATE BORING LOCATION
	TP-X APPROXIMATE TEST PIT LOCATION

- UNDERPINNING SEQUENCE:**
- EXCAVATE SITE GRADE TO 1-FT ABOVE B.O. EXISTING FOOTING ELEVATION.
 - CONSTRUCT "A" PIERS AND WAIT AT LEAST 24-HOUR TO CURE.
 - WEDGE "A" PIERS AND BACKFILL TO 1-FT BELOW T.O. UNDERPINNING ELEVATION.
 - CONSTRUCT "B" PIERS AND WAIT AT LEAST 24-HOUR TO CURE.
 - WEDGE AND DRYPACK "B" PIERS, AND BACKFILL TO 1-FT BELOW T.O. UNDERPINNING ELEVATION.
 - CONSTRUCT "C" PIERS AND WAIT AT LEAST 24-HOUR TO CURE.
 - WEDGE AND DRYPACK "C" PIERS, AND BACKFILL TO 1-FT BELOW T.O. UNDERPINNING ELEVATION.
 - CONSTRUCT "D" PIERS AND WAIT AT LEAST 24-HOUR TO CURE.
 - WEDGE AND DRYPACK "D" PIERS, AND BACKFILL TO 1-FT BELOW T.O. UNDERPINNING ELEVATION.
 - CONSTRUCT "E" PIERS AND WAIT AT LEAST 24-HOUR TO CURE (IF APPLICABLE).
 - WEDGE AND DRYPACK "E" PIERS, AND BACKFILL TO 1-FT BELOW T.O. UNDERPINNING ELEVATION (IF APPLICABLE).
 - RE-DRIVE WEDGES AND DRYPACK "A" PIERS.

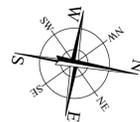
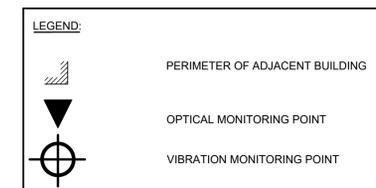
SURVEY AND MONITORING NOTES:

1. A PRE-CONSTRUCTION (PRE-CONDITION) SURVEY OF THE ADJACENT STRUCTURES SHALL BE PERFORMED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REVIEW AND FAMILIARIZE HIMSELF WITH THE RESULTS OF THE SURVEY. THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE ADJACENT STRUCTURES (INSIDE AND OUT) PRIOR TO STARTING THE WORK.
2. MONITOR ADJACENT STRUCTURES BY OPTICAL SURVEY AT ABOUT 25-FT INTERVALS FOR VERTICAL AND LATERAL MOVEMENT.
3. CRACK GAUGES SHALL BE INSTALLED ON EXISTING NEIGHBORING BUILDING CRACKS AND MONITORED AT THE FREQUENCY OUTLINED IN THE MONITORING PROTOCOL TABLE BELOW DURING EXCAVATION AND FOUNDATION CONSTRUCTION.
4. OBTAIN BASELINE READINGS OF THE MONITORING POINTS PRIOR TO EXCAVATION AND NEW CONSTRUCTION. HORIZONTAL AND VERTICAL SURVEY DATA TO BE OBTAINED BY A NEW YORK STATE LICENSED SURVEYOR.
5. OBTAIN AMBIENT TEMPERATURE DURING EACH OPTICAL MONITORING MEASUREMENT.
6. PERFORM OPTICAL SURVEYS AT THE FREQUENCY OUTLINED IN THE MONITORING PROTOCOL TABLE BELOW UNTIL FOUNDATION WALL IS BRACED AND BACKFILL IS COMPLETE. IF MOVEMENT OCCURS, INCREASE THE FREQUENCY OF THE READINGS AS RECOMMENDED BY THE CONTRACTOR OR ENGINEER.
7. VIBRATION MONITORS (SEISMOGRAPHS) SHALL BE PLACED ADJACENT TO AREAS WHERE WORK IS BEING PERFORMED AS NEGOTIATED WITH THE NEIGHBORING BUILDINGS. BASELINE READINGS SHALL BE OBTAINED AT LEAST ONE WEEK PRIOR TO START OF EXCAVATION.
8. NON-LANDMARK BUILDINGS OPTICAL, VIBRATION, AND CRACK MONITORING PROTOCOL:
 - 8.1. IF ALERT LEVEL IS REACHED, IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER, OWNER, AND ENGINEER.
 - 8.2. IF ACTION LEVEL IS REACHED, IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER, OWNER, AND ENGINEER, AND STOP WORK. SAFETY UNIT. THE WORK SHALL RESUME UPON APPROVAL BY THE CONSTRUCTION MANAGER AND APPROVED REMEDIAL MEASURES AND/OR MODIFIED CONSTRUCTION PROCEDURES BY THE ENGINEER. WORK SHALL NOT RESUME UNTIL AGREED UPON CORRECTIVE ACTION IS SUPPLEMENTED BY THE CONTRACTOR AND UPON APPROVAL BY THE CONSTRUCTION MANAGER AND THE ENGINEER.
9. VIBRATION MONITORS SHALL TAKE REAL-TIME READING.
10. ALL VIBRATION MONITORING DATA SHALL BE PRESENTED TO THE CONSTRUCTION MANAGER, OWNER, ENGINEER, AND SPECIAL INSPECTOR AT THE END OF EACH DAY, AND CONSOLIDATED INTO A MONTHLY REPORT AT THE BEGINNING OF THE NEXT MONTH.
11. ALL OPTICAL MONITORING DATA SHALL BE PRESENTED TO THE CONSTRUCTION MANAGER, OWNER, ENGINEER, AND SPECIAL INSPECTOR WITHIN TWO DAYS AFTER READING IS TAKEN.
12. ALL CRACK MONITORING DATA SHALL BE PRESENTED TO THE CONSTRUCTION MANAGER, OWNER, ENGINEER, AND SPECIAL INSPECTOR WITHIN TWO DAYS AFTER READING IS TAKEN.

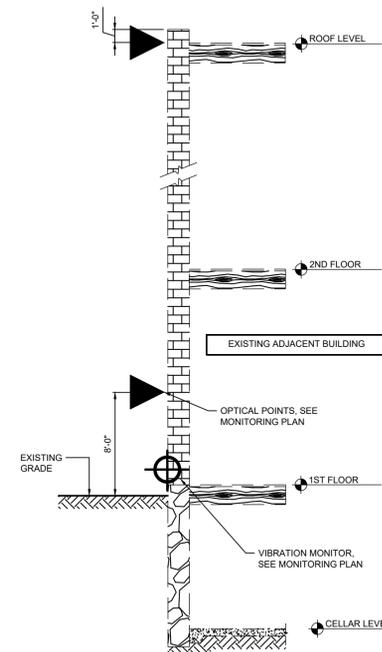


MONITORING PLAN

SCALE: 3/32" = 1' - 0"



MONITORING PROTOCOL			
MONITORING TYPE	MONITORING FREQUENCY	ALERT LEVEL	ACTION LEVEL
OPTICAL	(1) TIME PER WEEK DURING SUPPORT OF EXCAVATION (EXCLUDING UNDERPINNING), EXCAVATION, AND FOUNDATION WORK	VERTICAL MOVEMENT = 0.25-IN HORIZONTAL MOVEMENT = 0.25-IN	VERTICAL MOVEMENT = 0.50-IN HORIZONTAL MOVEMENT = 0.50-IN
	(2) TIME PER WEEK DURING UNDERPINNING	VERTICAL MOVEMENT = 0.25-IN HORIZONTAL MOVEMENT = 0.25-IN	VERTICAL MOVEMENT = 0.50-IN HORIZONTAL MOVEMENT = 0.50-IN
VIBRATION	CONTINUOUS REAL TIME VIBRATION MONITORING DURING SUPPORT OF EXCAVATION, FOUNDATION, AND PLACING COMPACTED BACKFILL WITHIN 50 FEET OF A MONITOR POINT.	0.25-IPS AT UP TO 20-HZ 0.5-IPS AT BETWEEN 20- AND 40-HZ 1.0-IPS AT HIGHER THAN 40-HZ	0.50-IPS AT UP TO 20-HZ 1.0-IPS AT BETWEEN 20- AND 40-HZ 2.0-IPS AT HIGHER THAN 40-HZ
CRACK	SAME FREQUENCY AS OPTICAL MONITORING	3-MM	6-MM



TYPICAL MONITORING SECTION

N.T.S."



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OWNER:



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NO.	DATE	DESCRIPTION
	05/01/23	UPDATED FOR PAA
	04/12/23	UPDATED
	03/09/23	PER FO
	02/02/23	UPDATED
	11/02/22	UPDATED
	08/08/22	PER DOB
	07/01/22	UPDATED FOR FILING
	05/04/22	FILING SET
	03/25/22	PRELIMINARY

REVISIONS:

PROJECT

920 METROPOLITAN AVENUE
BROOKLYN, NY 11211

DRAWING TITLE:

MONITORING PLAN

SEAL & SIGNATURE



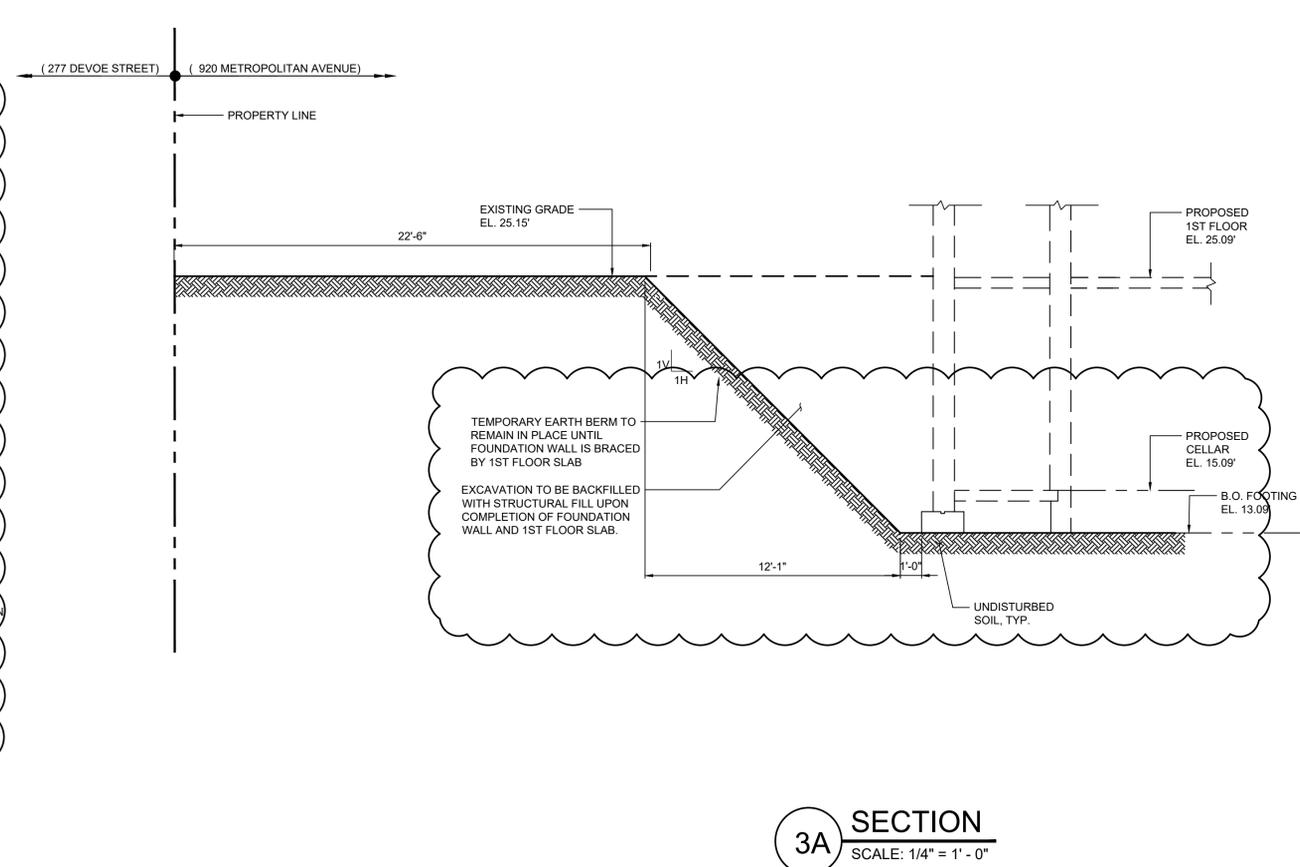
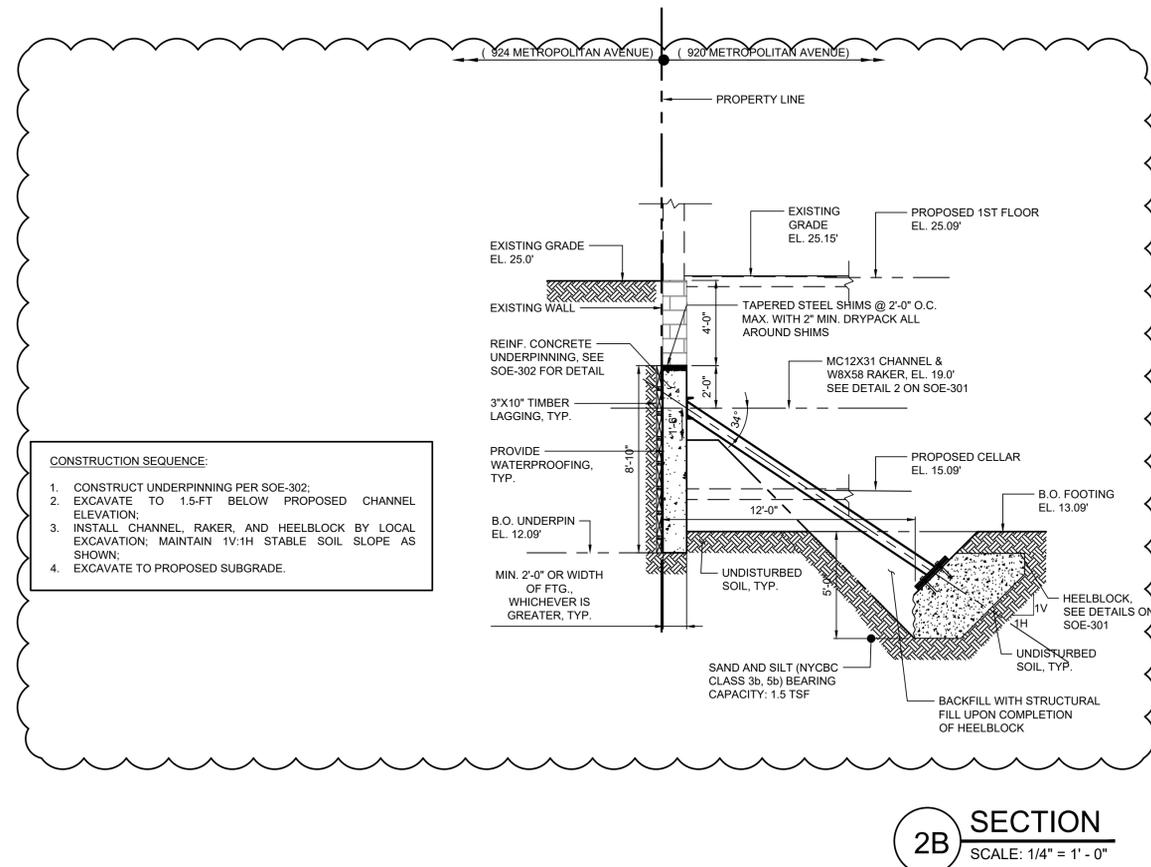
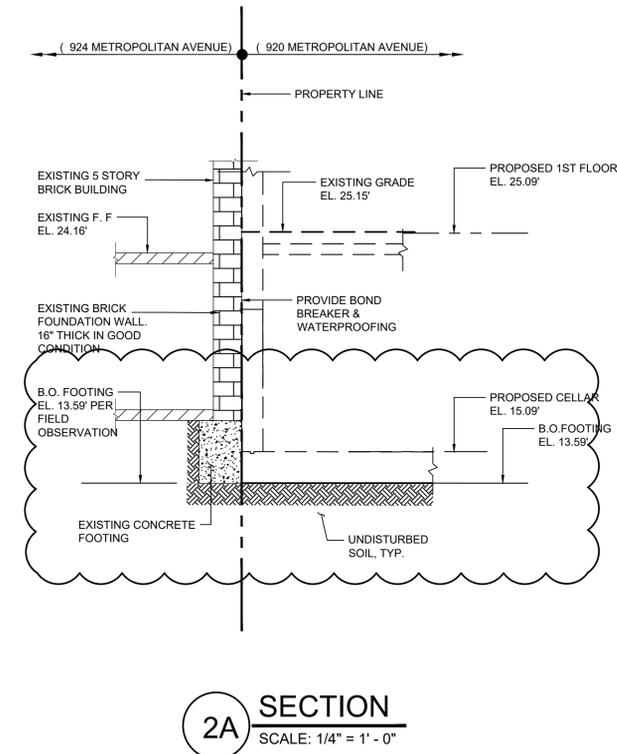
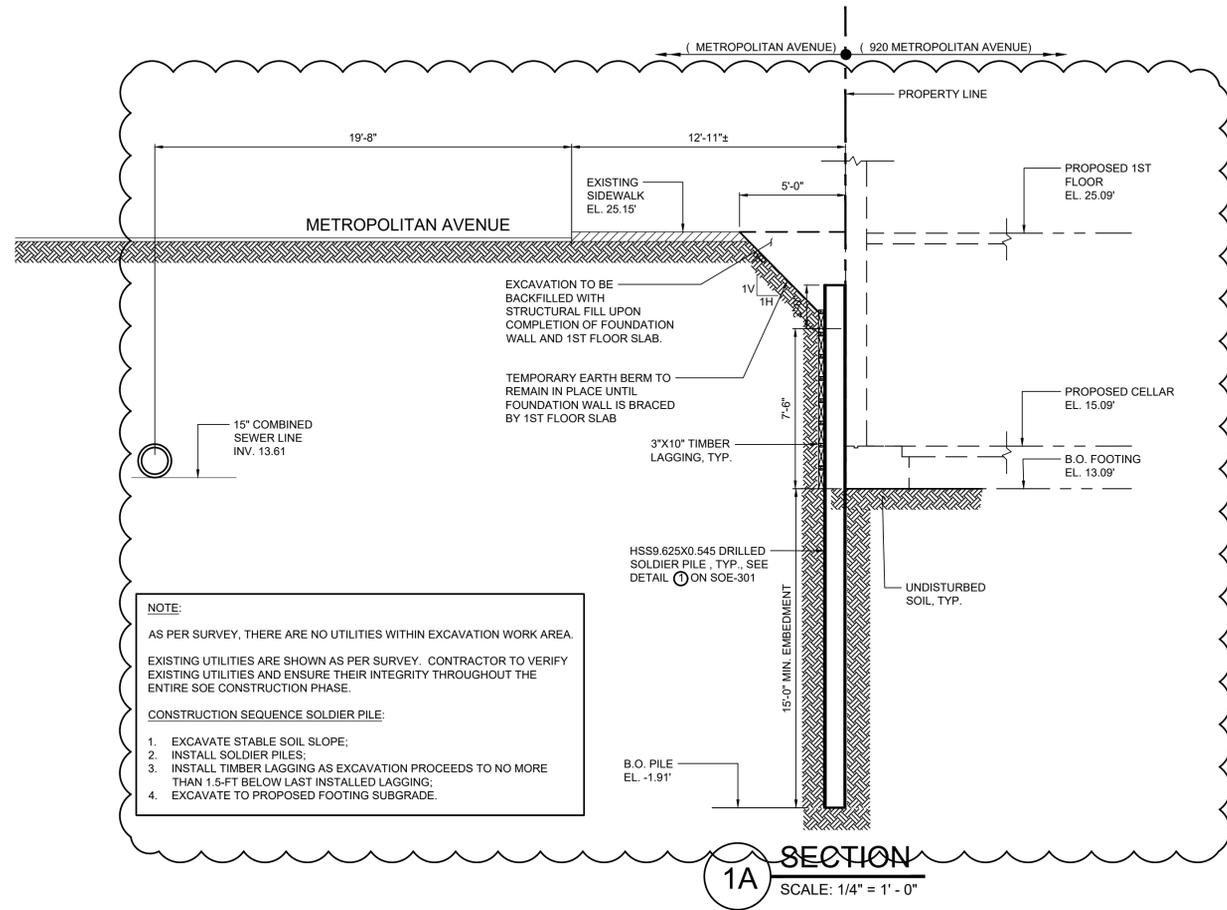
DATE: 02-21-2022
SCALE: AS NOTED
DRAWING BY: A.M.C.
CHECKED BY: R.G.
DWG NO:
SOE-102.01

SHEET NO: 05 OF 9

BSCAN STICKER

DOB APPROVAL STAMP

DOB JOB #B00715872-P4



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OWNER:

NYC
Victor Daza Quinteros
Victor Daza Quinteros
APPROVED
Date: 05/04/2023

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	05/04/22	FILING SET
	03/25/22	PRELIMINARY

REVISIONS:

PROJECT
920 METROPOLITAN AVENUE
BROOKLYN, NY 11211

DRAWING TITLE:
SUPPORT OF EXCAVATION SECTIONS

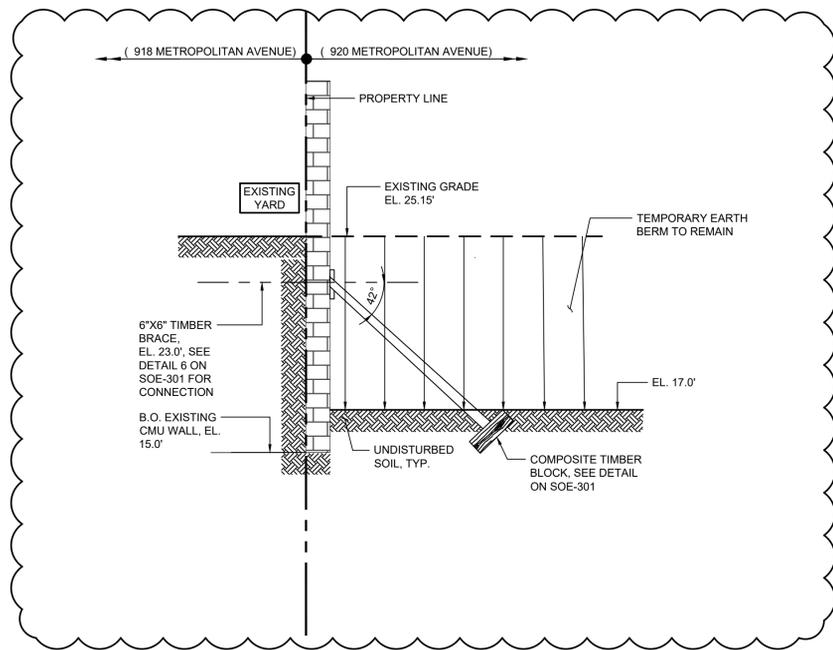
SEAL & SIGNATURE

Victor Daza Quinteros
DATE: 02-21-2022
SCALE: AS NOTED
DRAWING BY: A.M.C.
CHECKED BY: R.G.
DWG NO: SOE-201.01
SHEET NO: 06 OF 9

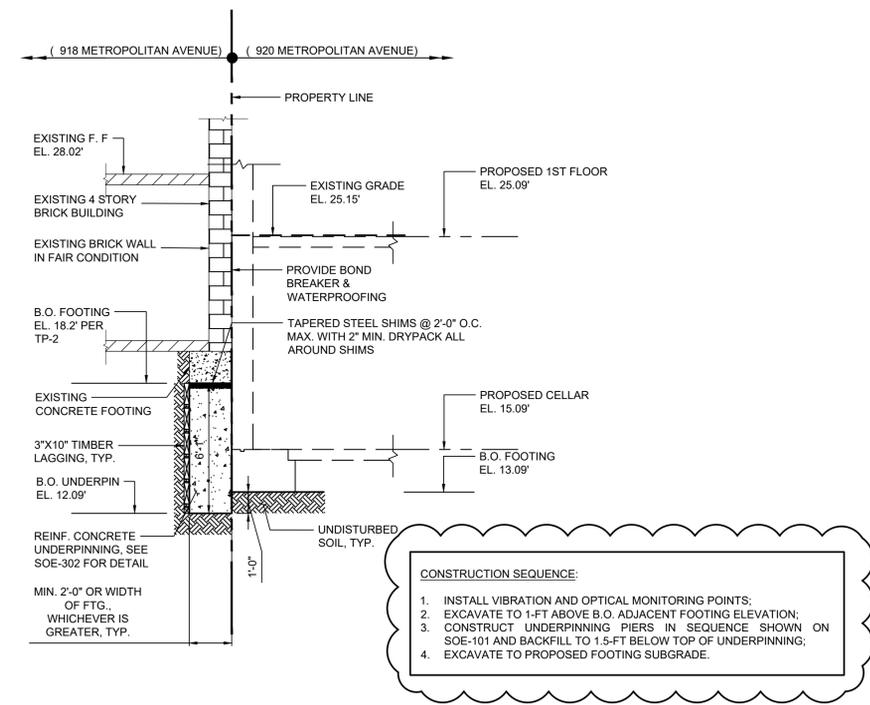
BSCAN STICKER

DOB APPROVAL STAMP

DOB JOB #B00715872-P4

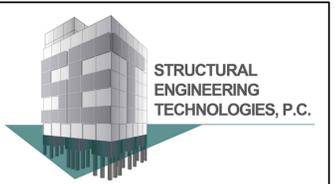


4A SECTION
SCALE: 1/4" = 1' - 0"



4B SECTION
SCALE: 1/4" = 1' - 0"

- CONSTRUCTION SEQUENCE:**
1. INSTALL VIBRATION AND OPTICAL MONITORING POINTS;
 2. EXCAVATE TO 1-FT ABOVE B.O. ADJACENT FOOTING ELEVATION;
 3. CONSTRUCT UNDERPINNING PIERS IN SEQUENCE SHOWN ON SOE-101 AND BACKFILL TO 1.5-FT BELOW TOP OF UNDERPINNING;
 4. EXCAVATE TO PROPOSED FOOTING SUBGRADE.



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OWNER:



Victor Daza Quinteros
APPROVED
Date: 05/04/2023

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	05/04/22	FILING SET
	03/25/22	PRELIMINARY

REVISIONS:

PROJECT
920 METROPOLITAN AVENUE
BROOKLYN, NY 11211

DRAWING TITLE:
SUPPORT OF EXCAVATION SECTIONS

SEAL & SIGNATURE

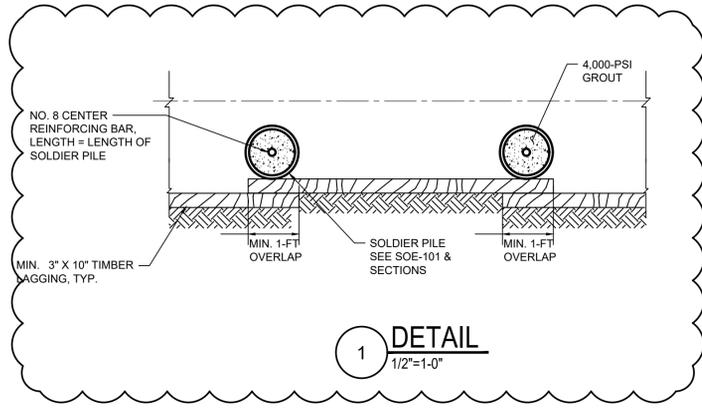


DATE: 02-21-2022
SCALE: AS NOTED
DRAWING BY: A.M.C.
CHECKED BY: R.G.
DWG NO: SOE-202.01
SHEET NO: 07 OF 9

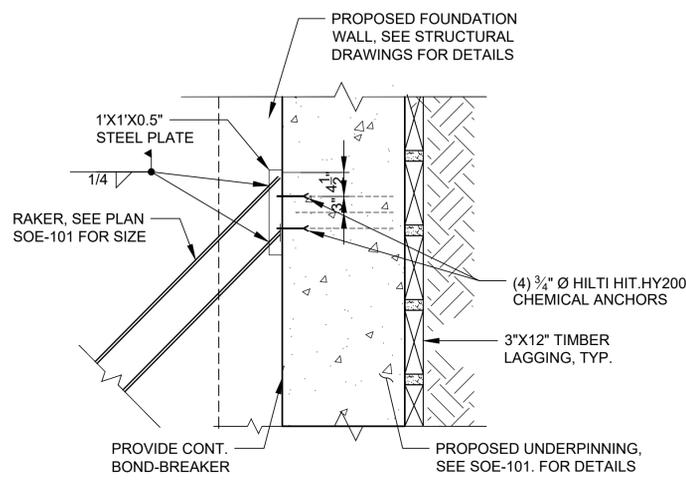
BSCAN STICKER

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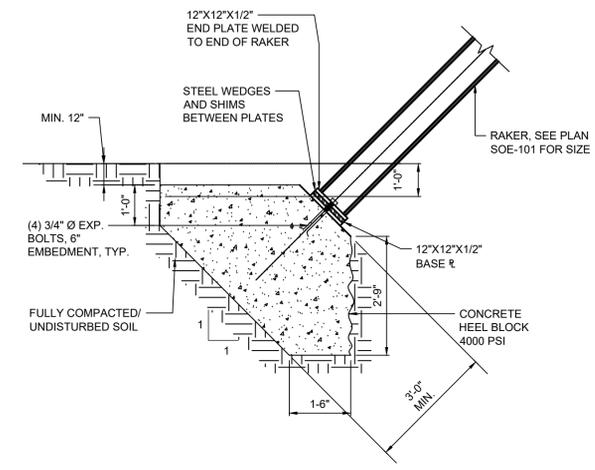
DOB JOB #B00715872-P4



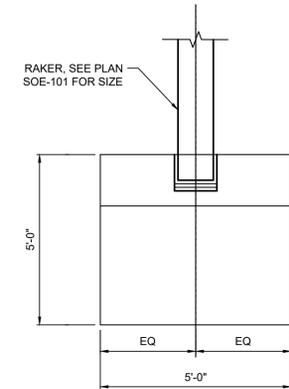
1 DETAIL
1/2"=1'-0"



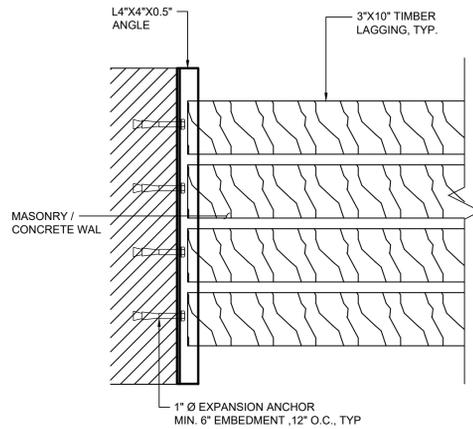
2 RAKER TO UNDERPINNING CONNECTION DETAIL
3/4"=1'-0"



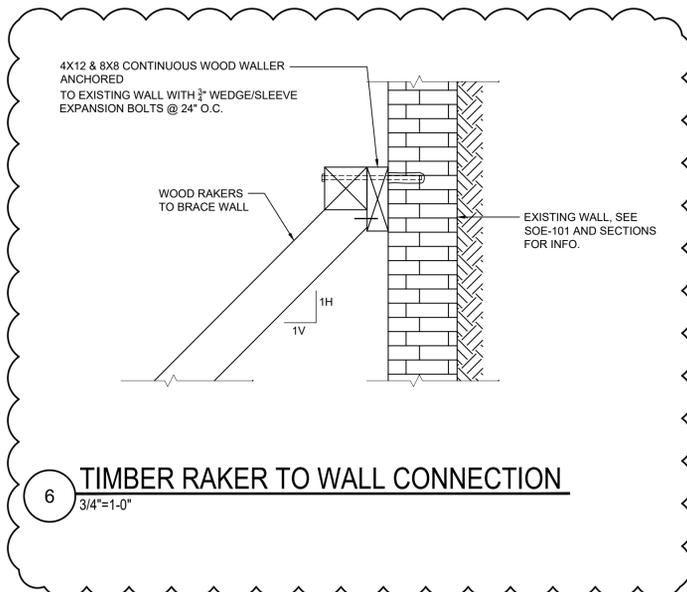
3 HEELBLOCK SECTION VIEW
1/2"=1'-0"



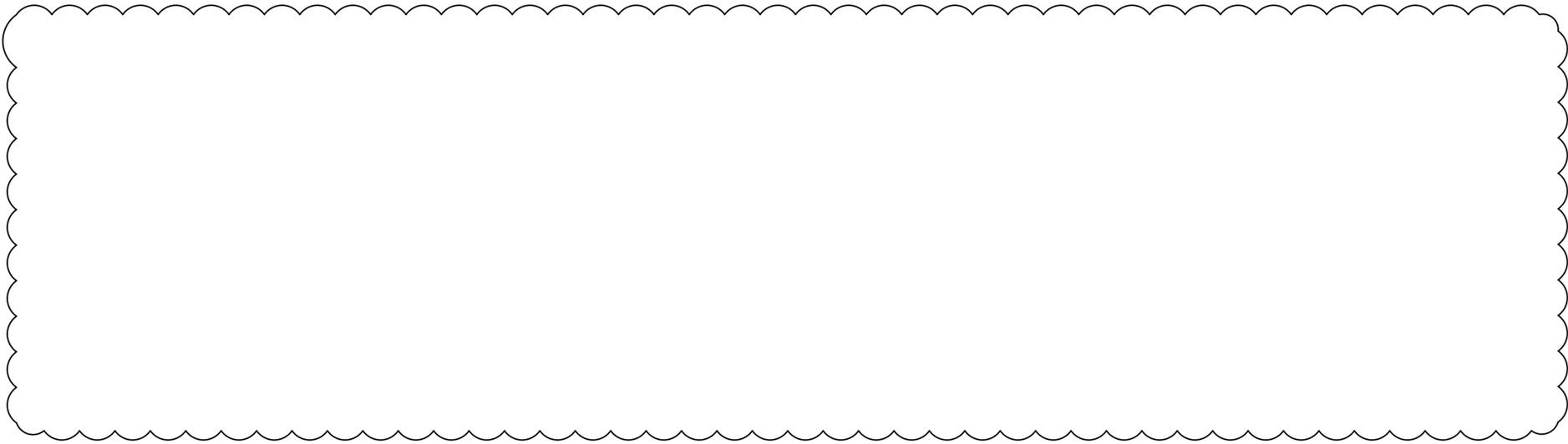
4 HEELBLOCK PLAN VIEW
1/2"=1'-0"



5 TIMBER LAGGING TO WALL CONNECTION
3/4"=1'-0"



6 TIMBER RAKER TO WALL CONNECTION
3/4"=1'-0"



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OWNER:



Victor Daza Quinteros
APPROVED
Date: 05/04/2023

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	11/02/22	UPDATED
	08/08/22	PER DOB
	07/01/22	UPDATED FOR FILING
	05/04/22	FILING SET
	03/25/22	PRELIMINARY

REVISIONS:
PROJECT
**920 METROPOLITAN AVENUE
BROOKLYN, NY 11211**

DRAWING TITLE:
**SUPPORT OF EXCAVATION
DETAILS**

SEAL & SIGNATURE



DATE: 02-21-2022
SCALE: AS NOTED
DRAWING BY: A.M.C.
CHECKED BY: R.G.
DWG NO: **SOE-301.01**
SHEET NO: 08 OF 9

BSCAN STICKER

DOB APPROVAL STAMP

DOB JOB #B00715872-P4

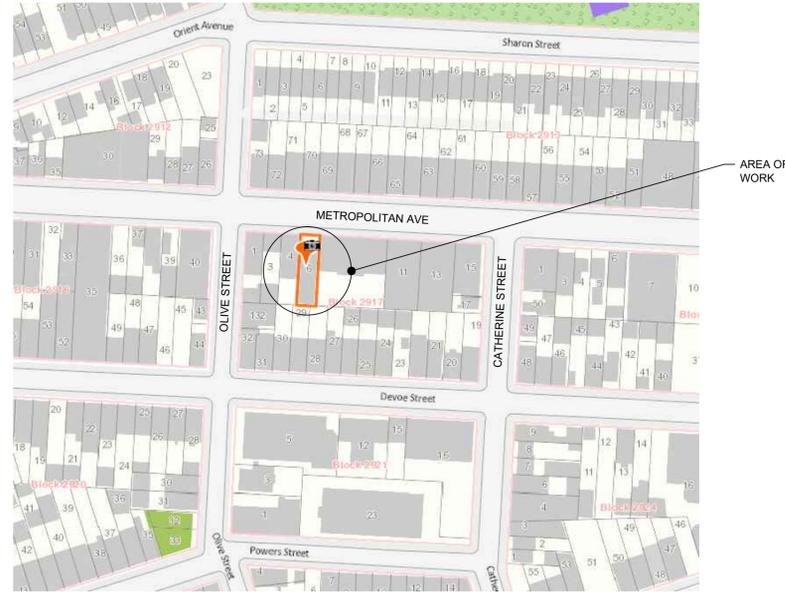
PROJECT DESCRIPTION: NEW 4-STORY MASONRY BUILDING AT 920 METROPOLITAN AVENUE, BROOKLYN, NEW YORK - 11211

SCOPE OF WORK:

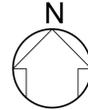
FOUNDATION : THE FOUNDATION SHALL BE CAST IN PLACE CONCRETE FOOTINGS. CONTINUOUS WALL FOOTINGS SHALL BE USED TO SUPPORT THE BEARING WALLS AND MAT FOOTINGS SHALL BE USED FOR SHEAR WALLS. FOUNDATION WALLS SHALL BE CAST IN PLACE CONCRETE WALLS. SEE FO PLANS FOR DETAILS

Sheet List Table

Sheet Number	Sheet Title	Sheet Name
1	T-001.01	TITLE SHEET
2	FO-001.00	GENERAL NOTES
3	FO-002.00	GENERAL NOTES
4	FO-101.01	FOUNDATION PLAN
5	FO-201.00	TYPICAL FOUNDATION DETAILS
6	FO-202.01	FOUNDATION SECTIONS
7	EN-101.00	ENERGY ANALYSIS

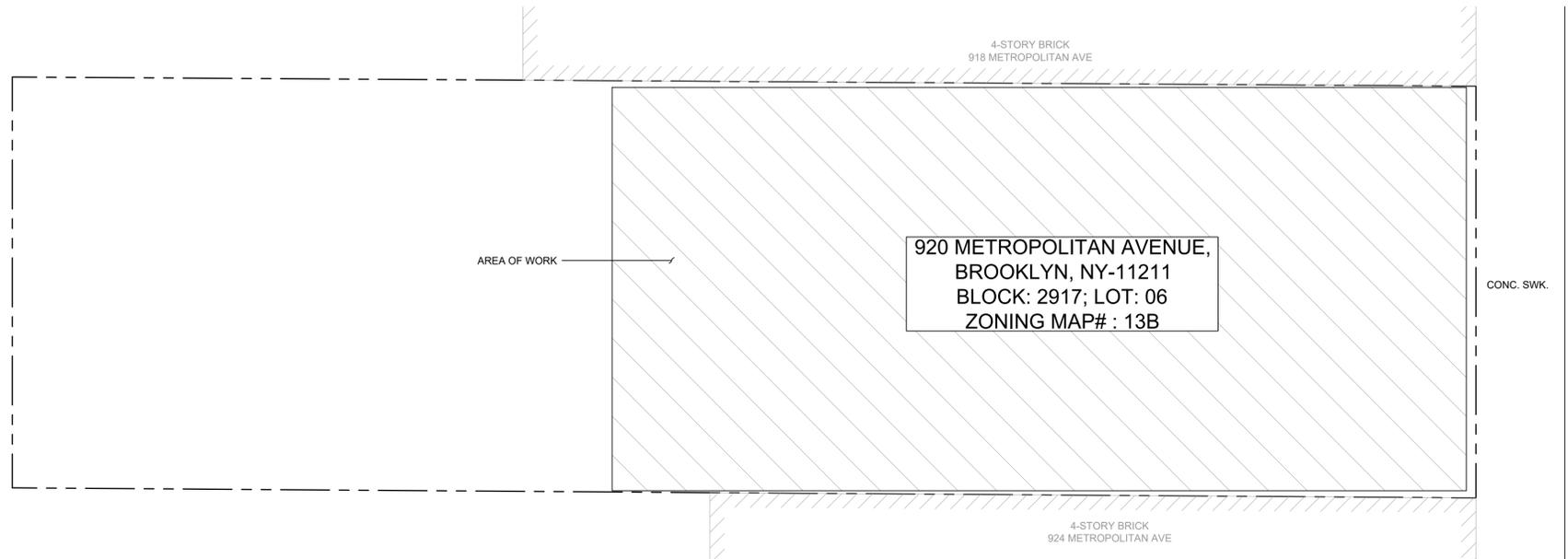


KEY PLAN:

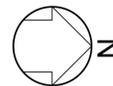


LIST OF RELATED JOB NOS.

JOB TYPE	JOB NUMBER
GENERAL CONSTRUCTION (NB)	B00715872-11
MECHANICAL	B00715872-S6
PLUMBING	B00715872-S7
SPRINKLER	B00715872-S4
STRUCTURAL	B00715872-S3
FOUNDATION	B00715872-S2
SOE	B00715872-S1



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



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OWNER:

DOB NOW BUILD JOB # :

#B00715872-P5

NOTE:

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NO.	DATE	DESCRIPTION
9	05/10/23	PER DOB
8	03/07/23	UPDATED FDN
7	01/31/23	FOR PAA
6	04-06-22	PROGRESS SET
5	03-29-22	PROGRESS SET
4	03-24-22	PROGRESS SET
3	03-18-22	PROGRESS SET
2	02-07-22	PROGRESS SET
1	01-11-22	PROGRESS SET

REVISIONS:

PROJECT

920 METROPOLITAN AVENUE, BROOKLYN, NY-11211

DRAWING TITLE:

TITLE SHEET

SEAL & SIGNATURE



DATE: 09-14-21
SCALE: AS NOTED
DRAWING BY: A.P.
CHECKED BY: G.J.C.
DWG NO: T-001.01

SHEET NO: 1 OF 7

BSCAN STICKER



SPECIAL INSPECTIONS:

- PRIOR TO BEGINNING ANY WORK, THE OWNER SHALL RETAIN THE SERVICES OF S.E.T. , P.C., OR ANOTHER ACCEPTABLE LICENSED PROFESSIONAL ENGINEER WHO SHALL HAVE PROVEN EXPERIENCE ACCEPTABLE TO THE OWNER AND ARCHITECT. MINIMUM REQUIRED QUALIFICATIONS SHALL INCLUDE A PROFESSIONAL LIABILITY INSURANCE COVERAGE OF 1 MILLION DOLLARS AND A MINIMUM PROVEN EXPERIENCE OF 5 YEARS WITH SIMILAR WORK.
- SPECIAL AND PROGRESS (CONTROLLED) INSPECTIONS REQUIRED BY THE NYC BUILDING CODE SHALL BE PERFORMED BY A TESTING AGENCY AND / OR PROFESSIONAL ENGINEER RETAINED BY THE OWNER AT NO COST TO THE CONTRACTOR FOR THE FOLLOWING CHECKED ITEMS:

SPECIAL INSPECTION CATEGORIES	
STRUCTURAL STEEL -- WELDING	BC 1704.3.1
STRUCTURAL STEEL -- DETAILS	BC 1704.3.2
STRUCTURAL STEEL -- HIGH STRENGTH BOLTING	BC 1704.3.3
STRUCTURAL COLD-FORMED STEEL	BC 1704.3.4
CONCRETE -- CAST-IN-PLACE	BC 1704.3.4
MASONRY	BC 1704.3.5
SUBGRADE INSPECTION	BC 1704.7.1
SUBSURFACE CONDITIONS -- FILL PLACEMENT & IN-PLACE DENSITY	BC 1704.7.2, BC 1704.7.3
SUBSURFACE INVESTIGATION (TR-4)	BC1802.4
DEEP FOUNDATION ELEMENTS	BC 1704.8
HELICAL PILES (BB # 2014-020)	BC 1704.8.5
STRUCTURAL STABILITY -- EXISTING BUILDING	BC 1704.20.1
EXCAVATIONS--SHEETING, SHORING, BRACING	BC 1704.20.2
UNDERPINNING	BC 1704.20.3, BC 1814
MECHANICAL DEMOLITION	BC 1704.20.4
POST-INSTALLED ANCHORS (BB #2014-018, 2014-019)	BC 1704.32
CONCRETE DESIGN MIX (TR-3)	BC 1905.3, BC 1913.5
CONCRETE SAMPLING AND TESTING (TR-2)	BC 1905.6, BC 1913.10
PROGRESS INSPECTION CATEGORIES	
FOOTING AND FOUNDATION	BC 110.3.1
STRUCTURAL WOOD FRAME	BC 110.3.3
FINAL	28-116.2.4.2
BC 110.5, DIRECTIVE 14 OF 1975, AND 1 RCNY § 101-10	

THE TESTING AGENCY FOR CONTROLLED INSPECTIONS SHALL FILE ALL APPROPRIATE FORMS WITH THE NEW YORK CITY BUILDINGS DEPARTMENT.

- THE CONTRACTORS ENGINEER SHALL PREPARE PLANS, CALCULATIONS, AND NOTES IN THE FORM OF SHOP DRAWINGS, FOR ALL ITEMS OF WORK WHICH DIFFER FROM WHAT IS SHOWN ON THE STRUCTURAL DRAWINGS DUE TO FIELD CONDITIONS. HE SHALL ALSO PREPARE PLANS IN THE FORM OF SHOP DRAWINGS, CALCULATIONS AND NOTES FOR ALL TEMPORARY SHORES AND BRACES AND CLEARLY INDICATE METHOD OF INSTALLATION, SEQUENCE OF OPERATIONS, AND QUALITY CONTROL.
- THESE SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER OF RECORD AND ARCHITECT PRIOR TO CONSTRUCTION. WORK SHALL BE EXECUTED FROM REVIEWED SHOP DRAWINGS ONLY.
- COPIES OF SUCH DRAWINGS WHICH INCLUDE THE ARCHITECT'S AND ENGINEER'S COMMENTS SHALL BE FILED WITH THE DEPARTMENT OF BUILDINGS (ON AMENDMENT FORMS). ADDITIONALLY, AT COMPLETION OF WORK, FORMS INCLUDING ALL INSPECTION REPORTS PREPARED BY THE CONTRACTOR'S ENGINEER SHALL BE FILED WITH THE DEPARTMENT OF BUILDINGS.
- THE SPECIAL INSPECTIONS ENGINEER SHALL DETERMINE THE FREQUENCY OF INSPECTIONS NEEDED AND WHETHER HE OR SHE SHOULD INSPECT THE SITE PERSONALLY OR SEND A PERSON UNDER HIS OR HER DIRECT SUPERVISION. AT A MINIMUM, THE SITE MUST BE INSPECTED TWICE, ONCE AT A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR AND ONCE DURING CONSTRUCTION OPERATIONS.
- THE SPECIAL INSPECTIONS ENGINEER SHALL MAINTAIN A LOG IN HIS OR HER OFFICE WHICH INCLUDES THE FOLLOWING INFORMATION:
 - ADDRESS OF THE PREMISES, JOB NUMBER, CONTRACTOR NAME AND ADDRESS
 - DATE AND TIME OF EACH INSPECTION INCLUDING
 - NAMES OF PERSONNEL WHO INSPECTED THE SITE
 - ANY SIGNIFICANT OBSERVATIONS OR INSTRUCTIONS GIVEN RELATING TO ANY OF THE FOLLOWING:
 - DEVIATIONS FROM THE CONTRACT DOCUMENTS.
 - ANTICIPATED FIELD CONDITIONS;
 - PROPER EXECUTION OF THE STRUCTURAL WORK;
 - GOOD ENGINEERING PRACTICE;
 - PRECAUTIONS TAKEN TO MAINTAIN SAFE CONDITIONS, IF WORK IS STOPPED FOR ANY REASON.
 - THE DATE OF AND PARTICIPANTS IN ANY CONVERSATIONS WITH THE SPECIAL INSPECTIONS ENGINEER OCCURRING OFF-SITE AND RELATING TO ANY SIGNIFICANT OBSERVATIONS OR INSTRUCTIONS.
- THE SPECIAL INSPECTIONS ENGINEER SHALL RETAIN A COPY OF THE DOCUMENTS DESCRIBED ABOVE IN HIS OR HER OFFICE AND SHALL PROVIDE A COPY TO THE CONTRACTOR AND / OR OWNER TO BE KEPT AT THE CONSTRUCTION SITE.
- THE SPECIAL INSPECTIONS ENGINEER RESPONSIBLE FOR SPECIAL INSPECTION SHALL REPORT UNSAFE CONDITIONS, WHEN AND IF OBSERVED DURING HIS / HER SITE VISITS, TO THE DEPARTMENT OF BUILDINGS AND / OR ANY OTHER AFFECTED PARTIES OR AGENCIES. IT IS TO BE NOTED THAT THE SPECIAL INSPECTIONS ENGINEER AND ENGINEER OF RECORD ARE NOT RESPONSIBLE IN ANY WAY FOR SITE SAFETY. SITE SAFETY SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
- UPON REQUEST OF THE BUILDINGS DEPARTMENT, THE SPECIAL INSPECTIONS ENGINEER SHALL MAKE AVAILABLE FOR REVIEW BY THE BUILDINGS DEPARTMENT DOCUMENTS AND THE LOG DESCRIBED ABOVE.

SAFETY DURING EXECUTION OF WORK:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONDITIONS OF PUBLIC AND WORKER SAFETY DURING EXECUTION OF THE WORK. THIS SHALL INCLUDE COMPLIANCE WITH CHAPTER 33 OF THE NEW YORK CITY BUILDING CODE: SAFEGUARDS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE SIDEWALK PROTECTION AND PROTECTION OF ADJOINING PROPERTIES, AS REQUIRED BY THE NYC BLDG. CODE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND FILING A SITE SAFETY PLAN AND/OR PROVIDING OTHER WRITTEN ASSURANCES OF SAFE OPERATIONS AS MAY BE REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SAFE WORKING ENVIRONMENT FOR ALL WORKERS. THIS SHALL INCLUDE COMPLIANCE WITH ALL OSHA, STATE AND LOCAL LABOR LAWS WHICH MAY GOVERN THIS TYPE OF WORK.
- THE CONTRACTOR SHALL PROVIDE REGULAR PERIODIC INSPECTION OF CONSTRUCTION OPERATIONS AS REQUIRED TO ENSURE ONGOING MAINTENANCE OF ALL SAFETY OPERATIONS AND EQUIPMENT. SUCH INSPECTIONS SHALL BE UNDERTAKEN BY AN AGENT OF THE CONTRACTOR WHO IS QUALIFIED TO EVALUATE SUCH OPERATIONS AND EQUIPMENT. THIS INSPECTOR SHALL PREPARE WRITTEN SAFETY REPORTS WHICH SHALL BE MAINTAINED AT THE JOB SITE FOR REVIEW BY THE AUTHORITIES HAVING JURISDICTION.

ENERGY ANALYSIS (EN):

2020 NEW YORK CITY ENERGY CONSERVATION CODE

2016 ASHRAE 90.1 - ENERGY STANDARD FOR BUILDINGS

- THE FOLLOWING REQUIRED ENERGY CODE PROGRESS INSPECTIONS TO BE FILED WITH (OT) APPLICATIONS, REFER TO ARCHITECTURAL DRAWINGS FOR DETAILED ENERGY ANALYSIS.
 - PROTECTION OF EXPOSED FOUNDATION INSULATION
 - INSULATION PLACEMENT AND R-VALUES
- "THE FOLLOWING FOUNDATION PLAN IS IN COMPLIANCE WITH 2020 NYCCEC BY APPLICATION OF ASHRAE 90.1-2016 AS MODIFIED BY APPENDIX CA"

OPAQUE THERMAL ENVELOPE ASSEMBLY REQUIREMENTS		
NYCECC TABLE C402.1.4	ALL OTHER COMMERCIAL	GROUP R >3 STORIES
WALLS, BELOW GRADE		
BELOW-GRADE WALL	REFER TO ARCHITECTURAL DWGS.	REFER TO ARCHITECTURAL DWGS.

GENERAL CONDITIONS:

- THESE DRAWINGS ARE INTENDED TO BE USED BY ONLY AN EXPERIENCED CONTRACTOR AFTER CONSULTATION WITH THIS OFFICE. THIS OFFICE WILL NOT BE RESPONSIBLE FOR JOB SITE PROBLEMS DUE TO FAILURE TO INTERPRET THE DOCUMENTS CORRECTLY. REPRESENTATIVES OF S.E.T. , P.C. ARE AVAILABLE TO ANSWER QUESTIONS AND TO ASSIST THE CONTRACTOR BY EXPLAINING THE DESIGN INTENT. FAILURE BY THE CONTRACTOR TO UNDERSTAND THE COMPLEXITIES OF THE PROJECT AND THE SEQUENCE OF CONSTRUCTION CAN RESULT IN INJURY OR DEATH TO WORKERS. PROCEEDING WITH CONSTRUCTION WITHOUT FULL UNDERSTANDING OF THE PROJECT AND WITHOUT A COMPLETE SET OF DESIGN DOCUMENTS WILL PUT BOTH THE PROJECT AND INDIVIDUALS IN PERIL. THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR ANY CONSEQUENCE OF THAT ACTION.
- ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR ADHERING TO THE REQUIREMENTS AS SPELLED OUT ON THESE NOTES. ALL PARTIES MUST CAREFULLY STUDY ALL DRAWINGS AND NOTES FOR ITEMS WHICH MAY PERTAIN TO THEIR TRADES. FAILURE TO READ THESE DRAWINGS AND NOTES DOES NOT PERMIT THE CONTRACTOR TO DEVIATE FROM THEIR REQUIREMENTS. QUESTIONS WILL BE CHEERFULLY ANSWERED BY THE ENGINEER.
- ALL CONTRACTORS MUST VISIT SITE AND NOTE ALL EXISTING CONDITIONS AS WELL AS ALL CONDITIONS TO BE MET BEFORE SUBMITTING BID. LACK OF THOROUGH UNDERSTANDING OF THE PROJECT REQUIREMENTS SHALL NOT CONSTITUTE AN EXCUSE FOR ERRORS OR OMISSIONS, NOR JUSTIFY A REQUEST FOR EXTRA COMPENSATION.
- GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND CHECK ALL MEASUREMENTS ON JOB AND SHALL BE RESPONSIBLE FOR SAME.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT BUILDING CODE OF ALL GOVERNING AUTHORITIES.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS, AND DRAWINGS.
- ALL CONTRACTORS AND SUBCONTRACTORS ON THIS PROJECT SHALL BE RESPONSIBLE FOR THE PROPER PERFORMANCE OF THEIR WORK, COORDINATION WITH OTHER TRADES, METHODS, SAFETY AND SECURITY ON THE JOB SITE. S.E.T. , P.C. AND ITS AGENTS AND EMPLOYEES ARE NOT RESPONSIBLE OR LIABLE FOR THE ABOVE AND SHALL BE HELD HARMLESS AND INDEMNIFIED BY ALL CONTRACTORS AND SUBCONTRACTORS FROM ANY AND ALL CLAIMS, LOSSES, SUITS AND LEGAL ACTION WHATSOEVER ARISING FROM THE PERFORMANCE OF WORK ON THIS PROJECT.
- ACCEPTANCE OF DEVIATIONS FROM ANY OF THE REQUIREMENTS OF THESE NOTES SHALL BE AT THE SOLE DISCRETION OF THE ENGINEER. ACCEPTANCE OF A DEVIATION FROM ANY REQUIREMENT SHALL NOT BE CONSTRUED AS PERMITTING ANY OTHER DEVIATION.

BIDDERS WARRANTY:

BY THE ACT OF SUBMITTING A BID FOR THE PROPOSED CONTRACT, THE BIDDER WARRANTS THAT:

- THE BIDDER AND ALL SUBCONTRACTORS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS AND OTHER CONSTRUCTION CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM AMBIGUITIES AND SUFFICIENT FOR THE CONTRACTOR TO BID, FABRICATE, AND INSTALL THE WORK ON TIME, FURTHER THAT,
- THE BIDDER AND ALL WORKMEN, EMPLOYEES AND SUBCONTRACTORS HE INTENDS TO USE ARE SKILLED AND EXPERIENCED IN THE TYPE OF CONSTRUCTION REPRESENTED BY THE CONSTRUCTION CONTRACT DOCUMENTS BID UPON; FURTHER THAT,
- NEITHER THE BIDDER NOR ANY OF HIS EMPLOYEES, AGENTS INTENDED SUPPLIERS OR SUBCONTRACTORS HAVE RELIED UPON ANY VERBAL REPRESENTATIONS, ALLEGEDLY AUTHORIZED OR UNAUTHORIZED FROM THE OWNER, HIS EMPLOYEES OR AGENTS INCLUDING ARCHITECTS, ENGINEERS OR CONSULTANTS, IN ASSEMBLING THE BID FIGURE; AND FURTHER THAT THE BID FIGURE IS BASED SOLELY UPON THE CONSTRUCTION CONTRACT DOCUMENTS AND PROPERLY ISSUED WRITTEN ADDENDA AND NOT UPON ANY OTHER WRITTEN REPRESENTATION.
- THE BIDDER ALSO WARRANTS THAT HE HAS CAREFULLY EXAMINED THE SITE OF THE WORK AND THAT FROM HIS OWN INVESTIGATIONS HE HAS SATISFIED HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK AND THE MATERIALS, METHODS, EQUIPMENT, UTILITIES AND DIFFICULTIES TO BE ENCOUNTERED, THE KIND AND EXTENT OF EQUIPMENT AND OTHER FACILITIES NEEDED FOR THE PERFORMANCE OF THE WORK, THE GENERAL AND LOCAL CONDITIONS, AND OTHER ITEMS WHICH MAY, IN ANY WAY, AFFECT THE WORK OR ITS PERFORMANCE.

DISCLAIMER:

THE DRAWINGS HEREIN ARE RELATED TO A NEW BUILDING STRUCTURE. THE STRUCTURAL DESIGN WAS BASED UPON AS MUCH OBSERVATION, MEASUREMENT, TESTING, ETC. AS CIRCUMSTANCES PERMITTED, HOWEVER, THERE WERE ASSUMPTIONS MADE ABOUT UNKNOWN CONDITIONS. SHOULD THE OWNER DECIDE NOT TO UTILIZE S.E.T. , P.C. TO VERIFY AND INSPECT THESE CONDITIONS IN THE FIELD, S.E.T. , P.C. WILL NOT BE RESPONSIBLE FOR ANY FAILURE, DAMAGE, INJURY, DELAY, LOSS OF INCOME, EXTRA COST, OR ANY OTHER LOSS DUE TO EXISTING CONDITIONS.

SHOP DRAWING REVIEW:

THE ENGINEER WILL REVIEW CONTRACTOR'S SHOP DRAWINGS AND RELATED SUBMITTALS WITH RESPECT TO CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND THE SPECIFICATIONS. IF REQUIRED BY SPECIFICATIONS, SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A LICENSED ENGINEER WHO IS LICENSED IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED, BEFORE SUBMITTING A SHOP DRAWING OR ANY RELATED MATERIAL TO THE ENGINEER. CONTRACTOR SHALL REVIEW EACH SUCH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, INCLUDING REFLECTION OF EXISTING FIELD CONDITIONS, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF CONTRACTOR; APPROVE EACH SUCH SUBMISSION BEFORE SUBMITTING IT; AND SO STAMP EACH SUCH SUBMISSION BEFORE SUBMITTING IT. THE ENGINEER WILL ASSUME THAT NO SHOP DRAWING OR RELATED SUBMITTAL COMPRISES A VARIATION FROM THE CONTRACT UNLESS CONTRACTOR ADVISES THE ENGINEER OTHERWISE VIA A WRITTEN INSTRUMENT WHICH IS ACKNOWLEDGED BY THE ENGINEER IN WRITING. IN THE EVENT THAT THE ENGINEER WILL REQUIRE MORE THAN TEN (10) WORKING DAYS TO PERFORM REVIEW, THE ENGINEER WILL SO NOTIFY THE CONTRACTOR. THE ENGINEER WILL RETURN WITHOUT REVIEW MATERIAL WHICH HAS NOT BEEN APPROVED BY GENERAL CONTRACTOR OR CONSTRUCTION MANAGER

FIUCIARY LIABILITY DECLINED:

S.E.T. , P.C. MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED AS TO S.E.T. , P.C. FINDINGS, RECOMMENDATIONS, PLANS, SPECIFICATIONS, OR PROFESSIONAL ADVICE. S.E.T. , P.C. HAS ENDEAVORED AND WILL ENDEAVOR TO PERFORM ITS SERVICES IN ACCORDANCE WITH GENERALLY ACCEPTED STANDARDS OF PRACTICE IN EFFECT AT THE TIME OF PERFORMANCE, BY UTILIZING THESE DOCUMENTS (OR HAVING OTHERS UTILIZE THEM) FOR ANY PURPOSE WHATSOEVER. THE OWNER OR DEVELOPER RECOGNIZES THAT NEITHER S.E.T. , P.C. OR ANY OF S.E.T. , P.C. SUBCONSULTANTS OR SUBCONTRACTORS OWES ANY FIDUCIARY RESPONSIBILITY TO THE OWNER OR DEVELOPER.

2020 ENERGY CODE TABULAR ANALYSIS					
NYCECC CITATION	PROVISION	ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE	SUPPORTING DOCUMENTATION
CLIMATE ZONE 4: BRONX, NASSAU, KINGS, NEW YORK, QUEENS, RICHMOND, SUFFOLK, WESTCHESTER					
RESIDENTIAL/COMMERCIAL BUILDING THERMAL ENVELOPE					
402 THERMAL ENVELOPE					
402.1.1	VAPOR RETARDER	REFER TO ARCHITECTURAL DWGS.	REFER TO ARCHITECTURAL DWGS.	REFER TO ARCHITECTURAL DWGS.	N/A
402.1.3	R-VALUE COMPUTATION	REFER TO ARCHITECTURAL DWGS.	REFER TO ARCHITECTURAL DWGS.	REFER TO ARCHITECTURAL DWGS.	N/A

SHOP DRAWING NOTES:

SUBMISSION AND REVIEW OF SHOP DRAWINGS IS REQUIRED BECAUSE IT WILL BETTER ENSURE A MORE SUCCESSFUL PROJECT COMPLETION, AND WILL ENABLE THE SPECIAL INSPECTIONS AGENCY (SIA) AND ENGINEER OF RECORD (EOR) TO PERFORM THEIR RESPECTIVE SITE INSPECTION AND OBSERVATION DUTIES IN A CLEAR, DEFINITIVE WAY.

IF OWNER AND/OR CONTRACTOR CHOOSE TO NOT PROVIDE SHOP DRAWINGS:

- SIA MUST INFORM EOR, OWNER, AND CONTRACTOR IF THEIR INSPECTIONS CAN BE PERFORMED PROPERLY OR NOT, AND WRITTEN AGREEMENT MUST BE REACHED WITH ALL INVOLVED PARTIES AS TO HOW TO PROCEED FURTHER.
- IF CONSTRUCTION ERRORS, OMISSIONS, AND UNSAFE CONDITIONS, OCCUR DUE TO LACK OF SHOP DRAWING SUBMISSIONS, OR LACK OF REQUIRED RE-SUBMISSIONS, OR FOR ANY OTHER REASONS NOT DUE TO FAULT OF EOR AND SIA, THEN SIA MUST SUBMIT NON-CONFORMANCE REPORT (NCR) ON THE SAME DAY OF OCCURRENCE TO ALL INVOLVED PARTIES, AND EOR RESERVES THE RIGHT TO STOP WORK UNTIL DEFECTIVE CONDITIONS ARE CORRECTED. ALL TIME SPENT BY EOR FOR THESE CONDITIONS WILL BE BILLED AS ADDITIONAL SERVICES.

- SUBMIT ONE REPRODUCIBLE AND TWO (2) PRINTS EACH OR AN ELECTRONIC DRAWING SUBMISSION, OF ALL SHOP DRAWINGS TO ARCHITECT AND ENGINEER OF RECORD (EOR) FOR REVIEW. THE EOR WILL SEND HIS/HER REVIEWED SHOP DRAWINGS TO THE ARCHITECT, WHO WILL PERFORM HIS/HER REVIEW OF THESE DRAWINGS AND SEND TO THE CONTRACTOR FOR HIS OR HER REVIEW, AND TO ALL OTHERS REQUIRING COPIES. SHOP DRAWINGS MUST BE CHECKED BY THE DETAILER PRIOR TO SUBMISSION, FAILURE TO DO SO WILL BE CAUSE FOR REJECTION.
- REPRODUCTIONS OF STRUCTURAL CONTRACT DOCUMENTS MAY BE SUBMITTED AS ERECTION PLANS PROVIDED THAT S.E.T. , P.C. IS CONTACTED AND GRANTS APPROVAL. A NOMINAL FEE WILL BE CHARGED FOR THIS RELEASE OF FILES IN ELECTRONIC FORMAT. DETAILER MUST USE COLUMN AND LINEL DESIGNATIONS AS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- ALL REVISIONS TO SHOP DRAWINGS AFTER FIRST SUBMISSION MUST BE SO IDENTIFIED ON SUBSEQUENT SUBMISSIONS (I.E. WITH REVISION BUBBLES).
- REVIEW OF SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY CONTRACT RESPONSIBILITIES, EVEN IF SUCH ITEMS ARE NOT SHOWN ON SHOP DRAWINGS.

- ANY DESIGN CHANGES PROPOSED BY THE DETAILER, MUST BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS AND, UPON REQUEST OF THE EOR, SUBSTANTIATED BY SUBMISSION OF THE CALCULATIONS USED TO DESIGN SUCH CHANGES.
- ALL SUBCONTRACTORS MUST WORK WITH A FULL SET OF DRAWINGS, INCLUDING, STRUCTURAL, ARCHITECTURAL AND MECHANICAL, ELECTRICAL, PLUMBING, ETC. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO REQUEST ANY DRAWINGS NOT FURNISHED BY THE GENERAL CONTRACTOR.
- CONTRACTORS SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AT LEAST TEN WORKING DAYS PRIOR TO THE REQUIRED DATE FOR RETURN FROM REVIEW. THE CONTRACTOR WILL BE RESPONSIBLE FOR DEADLINES MISSED DUE TO LATE SHOP DRAWING SUBMISSION.
- SHOP DRAWINGS MUST BE SUBMITTED TO THE E.O.R. FOR STRUCTURAL WORK RELATED TO THE FOLLOWING:
 - STRUCTURAL STEEL.
 - STRUCTURAL CONCRETE.
 - STRUCTURAL MASONRY.
 - STRUCTURAL COLD FORMED AND/OR LIGHT GAGE STEEL (I.E. STEEL DECKING).
 - STRUCTURAL LUMBER, TIMBER AND WOOD.
 - SUPPORT OF EXCAVATION AND PILES.
 - ANY OTHER STRUCTURAL WORK NOT PREVIOUSLY MENTIONED.

MINIMUM SHOP DRAWINGS REQUIREMENTS

AT A MINIMUM, THE FOLLOWING INFO IS TO BE PROVIDED ON SHOP DRAWINGS:

- CONCRETE STRUCTURES:**
 - SLAB AND BEAM TOP & BOTTOM REINFORCEMENT, CONCRETE STRENGTH, PLANS AND SECTIONS, WITH BAR SPLICE LENGTHS AND LOCATIONS CLEARLY SHOWN.
 - COLUMN REINFORCEMENT & TIES SECTIONS, WITH BAR SPLICE LENGTHS, ELEVATIONS, AND LOCATIONS CLEARLY SHOWN.
- REBAR SCHEDULES:**
 - EDGE OF SLAB LOCATION PLANS.
 - COLUMN LOCATION PLANS (COORDINATES OR GRID).
 - FORMWORK, FOR LOCATIONS OF "STA-FORM" SYSTEM, OR ANY OTHER FORM SYSTEMS THAT WILL ELIMINATE LATERAL LOADS AGAINST EXISTING STRUCTURES DURING POURING OF CONCRETE.
 - SEE ALSO CONCRETE NOTES AND DETAILS FOR MORE INFO.

PRE-CONSTRUCTION NOTES:

1) DURING THE DESIGN PHASE, AND PRIOR TO CONSTRUCTION, THE FOLLOWING STEPS, AT A MINIMUM, MUST BE TAKEN:

- PRIOR TO CONSTRUCTION IT IS REQUIRED THAT OWNER CONDUCT A CONDITION SURVEY OF ADJACENT PROPERTIES, INCLUDING DATED PHOTOGRAPHS, IN ORDER TO DOCUMENT PRE-EXISTING CONDITIONS, STRUCTURAL STABILITY OF ALL ADJACENT STRUCTURES AND THEIR FOUNDATIONS, AND ASSESSMENT OF ADJACENT STRUCTURES' FOUNDATIONS ABILITY TO SAFELY WITHSTAND THE EFFECTS OF PROPOSED CONSTRUCTION, AND RECOMMENDED BRACING & SHORING, IF REQUIRED. IF CRACKS EXIST ON ADJACENT PROPERTIES, IT IS REQUIRED THAT CRACK MONITORS BE INSTALLED AT LOCATIONS DICTATED BY ENGINEER OF RECORD, AND BE PERIODICALLY MONITORED.
- OWNER TO OBTAIN SITE SURVEY SHOWING, AT A MINIMUM, ALL PROPERTY LINES, PARTY WALLS WITH THEIR DIMENSIONS ON EACH SIDE OF PROPERTY LINE, INDEPENDENT WALLS, ENCROACHMENTS BEYOND PROPERTY LINE FOR ENTIRE HEIGHT OF ALL ADJOINING PROPERTIES, NAVD ELEVATIONS, UTILITIES, ETC.
- SOIL BORINGS, TEST PITS, AND EXPLORATORY PROBING THAT MAY BE REQUIRED.
- MONITORING PLAN, SHOWING TYPE OF MONITORS AND THEIR LOCATIONS.

2) MANDATORY PRE-CONSTRUCTION MEETING (TO BE ORGANIZED BY OWNER AND CONTRACTOR) TO BE HELD PRIOR TO CONSTRUCTION, AND TO BE ATTENDED BY OWNER, DESIGN TEAM, SPECIAL INSPECTIONS AGENCY (SIA), AND CONSTRUCTION TEAM INCLUDING ALL PERTINENT SUB-CONTRACTORS. AT A MINIMUM, THE FOLLOWING ITEMS MUST BE DISCUSSED AND AGREED UPON BY ALL ATTENDING PARTIES:

- RESULTS OF FINDINGS OF PRE-CONDITION SURVEY AND STRUCTURAL STABILITY ASSESSMENT REPORT FOR ADJOINING PROPERTIES, AND IMPLEMENTATION OF ANY REMEDIAL MEASURES, BRACING, SHORING, ETC. THAT MAY BE REQUIRED.
- CONSTRUCTION TEAM TO CONFIRM THAT THEIR MARK-OUTS, ELEVATIONS, ANY ENCROACHMENTS, ETC. HAVE BEEN COORDINATED WITH SITE SURVEY, PRE-CONDITION SURVEY, AND ACTUAL SITE CONDITIONS.
- TYPES, LOCATIONS, AND FREQUENCY OF MONITORING TO BE FINALIZED.
- TIMETABLE OF SHOP DRAWINGS AND MATERIAL SUBMITTALS.
- COORDINATION WITH SIA FOR TYPES OF INSPECTIONS, FREQUENCY OF INSPECTIONS, SUBMISSION OF NON-CONFORMANCE REPORTS (NCR), ETC. SIA TO ALSO SUBMIT NAME AND CONTACT INFO FOR INSPECTOR TO BE USED FOR THIS PROJECT.
- COORDINATION WITH CONSTRUCTION TEAM FOR FULL-TIME PRESENCE AT SITE DURING WORK, AND SUBMISSION OF NAME(S) AND CONTACT INFO FOR SITE SUPERINTENDENT TO BE USED FOR THIS PROJECT.

NEW YORK CITY BUILDING CODE COMPLIANCE NOTES:

- DEWATERING NOTES:** AS PER BC10704.21, THE PERSON CAUSING THE SOIL OR FOUNDATION WORK TO BE PERFORMED SHALL DEWATER THE SITE, AS NEEDED, FOR THE PROGRESS OF THE WORK. MEASURES SHALL BE TAKEN TO PREVENT SETTLEMENT, SLOPE FAILURE, AND DAMAGE TO ADJACENT BUILDINGS, STRUCTURES, AND PROPERTY AFFECTED BY DEWATER OPERATIONS.
- DRAINAGE NOTES:** AS PER BC 3303.14, NO CONDITION SHALL BE CREATED AS A RESULT OF CONSTRUCTION OR DEMOLITION OPERATIONS THAT WILL INTERFERE WITH NATURAL SURFACE DRAINAGE. WATER COURSES, DRAINAGE DITCHES, ETC., SHALL NOT BE OBSTRUCTED BY REFUSE, WASTE BUILDING MATERIALS, EARTH, STONES, TREE STUMPS, BRANCHES, OR OTHER DEBRIS THAT MAY INTERFERE WITH SURFACE DRAINAGE OR CAUSE THE IMPOUNDMENT OF SURFACE WATERS.

2.1 PROTECTION OF FOUNDATIONS
AS PER BC 3303.14.1, PROVISION SHALL BE MADE TO PREVENT THE ACCUMULATION OF WATER OR WATER DAMAGE TO ANY FOUNDATIONS ON THE PREMISES OR TO ADJOINING PROPERTY.

2.2 DRAINAGE OF EXCAVATIONS
AS PER 3303.14.2, ALL EXCAVATIONS SHALL BE DRAINED, AND THE DRAINAGE SHALL BE MAINTAINED AS LONG AS THE EXCAVATION CONTINUES OR REMAINS. WHERE NECESSARY, PUMPING SHALL BE USED, PROVIDED PROPER PERMITS ARE OBTAINED FROM THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION.

2.3 CLOGGING
AS PER 3303.14.3, PRECAUTIONS SHALL BE TAKEN TO PREVENT CONCRETE OR MORTAR WASHINGS, SAND, GRIT, OR ANY OTHER MATERIAL THAT WOULD CAUSE CLOGGING FROM ENTERING A SEWER OR DRAIN. CONCRETE WASHOUT WATER SHALL ALSO MEET THE REQUIREMENTS OF NYC BC SECTION 3303.15.

3. FLOOD-RESISTANT CONSTRUCTION NOTES:
AS PER BC APPENDIX G, CONDITIONS SHALL PROMOTE THE PUBLIC HEALTH, SAFETY AND GENERAL WELFARE AND TO MINIMIZE PUBLIC AND PRIVATE LOSSES DUE TO FLOOD CONDITIONS IN SPECIFIC FLOOD HAZARD AREAS THROUGH THE ESTABLISHMENT OF COMPREHENSIVE REGULATIONS FOR MANAGEMENT OF FLOOD HAZARD DESIGNED TO:

- PURPOSE**
 - PREVENT UNNECESSARY DISRUPTION OF COMMERCE, ACCESS AND PUBLIC SERVICE DURING TIMES OF FLOODING;
 - MANAGE THE ALTERATION OF NATURAL FLOOD PLAINS, STREAM CHANNELS AND SHORELINES;
 - MANAGE FILLING, GRADING, DREDGING AND OTHER DEVELOPMENT WHICH MAY INCREASE FLOOD DAMAGE OR EROSION POTENTIAL;
 - PREVENT OR REGULATE THE CONSTRUCTION OF FLOOD BARRIERS WHICH WILL DIVERT FLOODWATERS OR WHICH CAN INCREASE FLOOD HAZARDS;
 - CONTRIBUTE TO IMPROVED CONSTRUCTION TECHNIQUES IN THE FLOOD PLAIN; AND
 - COMPLY WITH AND EXCEED THE MINIMUM STANDARDS OF THE NATIONAL FLOOD INSURANCE PROGRAM AS ADMINISTERED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).
- SITE IMPROVEMENT - RETAINING WALLS, DRIVEWAYS, GRADING & FILL**
 - RETAINING WALL'S GRADING AND FILL COMPLIES WITH REQUIREMENTS IN BC G303.6 & G303.7.

4. SOILS & FOUNDATIONS DESIGN LOAD NOTES:
AS PER BC CHAPTER 18 & BC 107.7.1, FOUNDATION PLANS SHALL DEMONSTRATE CODE COMPLIANCE REGARDING DESIGN LOADS, DESIGN ELEVATIONS, AND DETAILS AS TO SIZES, CURE STRENGTHS AND REINFORCEMENTS.

4.1 ALLOWABLE BEARING PRESSURES, ALLOWABLE STRESSES AND DESIGN FORMULAS
AS PER BC CHAPTER 18, DESIGN FORMULAS SHALL BE USED WITH THE ALLOWABLE STRESS DESIGN LOAD COMBINATIONS SPECIFIED IN SECTION 1605.3. THE QUALITY AND DESIGN OF MATERIALS USED STRUCTURALLY IN EXCAVATIONS AND FOUNDATIONS SHALL CONFORM TO THE REQUIREMENTS SPECIFIED IN CHAPTERS 16, 19, 21, 22 AND 23. OTHERWISE, AS PER PROJECT SPECIFIED.

5. CONSTRUCTION OPERATIONS NOTES:
AS REQUIRED IN BC 3303.14 & BC 3304.10, CONSTRUCTION OPERATIONS HAVE ACCOUNTED FOR THE PREVENTION OF ACCUMULATION OF WATER, WHICH COULD CAUSE DAMAGE TO NEARBY BUILDING FOUNDATIONS ON THE SUBJECT PROPERTY OR ON ADJACENT PROPERTIES.

6. RODENT-PROOFING NOTES:
AS PER BC F102.1, FOR WALLS OR PORTIONS THEREOF WITHIN 2 FEET OF THE OUTSIDE GROUND LEVEL, AND FOR WALLS BELOW THE OUTSIDE GROUND LEVEL, ALL OPENINGS, INCLUDING BUT NOT LIMITED TO, ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, AND CONDUITS, SHALL BE PROTECTED BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY, METAL PLATES OR SCREENING DESIGNED TO PREVENT THE PASSAGE OF RODENTS.

7. SEISMIC LOAD NOTES:
AS PER BC 1613, EVERY STRUCTURE, AND PORTION THEREOF, INCLUDING NONSTRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7-10, EXCLUDING CHAPTER 14 AND APPENDIX 11A. THE SEISMIC DESIGN CATEGORY FOR A STRUCTURE SHALL BE DETERMINED IN ACCORDANCE WITH EITHER SECTION 1613 OR ASCE 7-10.

7.1 SEISMIC LOAD IS COMPLIANCE WITH NEW YORK CITY SEISMIC CODE: LOCAL LAW 17195.

8. SHORING & BRACING NOTES:
AS PER BC 3305.3.2.6, WHEN PATENTED OR COMMERCIAL DEVICES THAT ARE NOT SUSCEPTIBLE TO DESIGN ARE USED FOR SHORING, BRACING, OR SPLICING, THEY SHALL BE APPROVED BY THE NYC DOB COMMISSIONER. SPLICES SHALL DEVELOP THE FULL STRENGTH OF THE SPLICED MEMBERS. WHERE SHORE HEIGHT EXCEEDS 10 FEET OR WHEN NECESSARY TO PROVIDE STRUCTURAL STABILITY, DIAGONAL BRACING SHALL BE PROVIDED. STRUTS, ANCHORED INTO MASONRY OR TO PANEL JOINTS OF ADJACENT BRACED BAYS MAY BE USED TO PREVENT BUCKLING OF INDIVIDUAL MEMBERS NOT SUPPORTED BY THE DIAGONAL BRACING, BUT BRACING AN ENTIRE TIER OF SHORES WITH STRUTS WITHOUT DIAGONAL BRACING SHALL BE PROHIBITED UNLESS THE SYSTEM CAN BE DEMONSTRATED TO BE BRACED BY OTHER RIGID CONSTRUCTION. THE UNBRACED LENGTH OF SHORES SHALL NOT EXCEED THE MAXIMUM LENGTH DETERMINED IN ACCORDANCE WITH THE REQUIREMENTS OF NYC BC 3305.3.2.6 FOR THE STRUCTURAL MATERIAL USED.

9. SOIL & ROCK SAMPLING NOTES:
AS PER BC 1802.5, THE SOIL ROCK CLASSIFICATIONS, NEEDED TO DETERMINE THE PROPER FOUNDATION DESIGN, ARE BASED ON MATERIALS OBTAINED FROM BORINGS, TEST PITS OR OTHER SUBSURFACE EXPLORATION METHODS AS ALLOWED.



CONSULTING STRUCTURAL, GEOTECHNICAL, & ENVIRONMENTAL ENGINEERS

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OWNER:

DOB NOW BUILD JOB # :

#B00715872-S2

NOTE:

STRUCTURAL ENGINEERING TECHNOLOGIES, P.C. HAS NOT BEEN RETAINED TO PERFORM CONTROLLED INSPECTIONS OF ANY KIND FOR THIS PROJECT.

THE DESIGN PROFESSIONAL SHALL BE RELEASED FROM ANY AND ALL LIABILITY IN THE COMMENCEMENT OF ANY WORK PERFORMED WITHIN THESE DOCUMENTS PRIOR TO OBTAINING ALL REQUIRED PERMITS FROM THE RESPECTIVE JURISDICTIONAL AGENCIES

NO.	DATE:	DESCRIPTION
6	04-06-22	PROGRESS SET
5	03-29-22	PROGRESS SET
4	03-24-22	PROGRESS SET
3	03-18-22	PROGRESS SET
2	02-07-22	PROGRESS SET
1	01-11-22	PROGRESS SET

REVISIONS:

PROJECT

920 METROPOLITAN AVENUE, BROOKLYN, NY-11211

DRAWING TITLE:

GENERAL NOTES

SEAL & SIGNATURE

	DATE: 09-14-21
	SCALE: AS NOTED
	CHECKED BY: A.P.
	DRAWN BY: G.J.C.
	DWG NO: FO-001.00
	SHEET NO: 2 OF 6

BSCAN STICKER

DOB APPROVAL STAMP





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OWNER:

DOB NOW BUILD JOB # :
#B00715872-P5

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NO.	DATE:	DESCRIPTION
9	05/10/23	PER DOB
8	03/07/23	UPDATED FDN
7	01/31/23	FOR PAA
6	04-06-22	PROGRESS SET
5	03-29-22	PROGRESS SET
4	03-24-22	PROGRESS SET
3	03-18-22	PROGRESS SET
2	02-07-22	PROGRESS SET
1	01-11-22	PROGRESS SET

REVISIONS:

PROJECT
920 METROPOLITAN AVENUE, BROOKLYN, NY-11211

DRAWING TITLE:
FOUNDATION PLAN

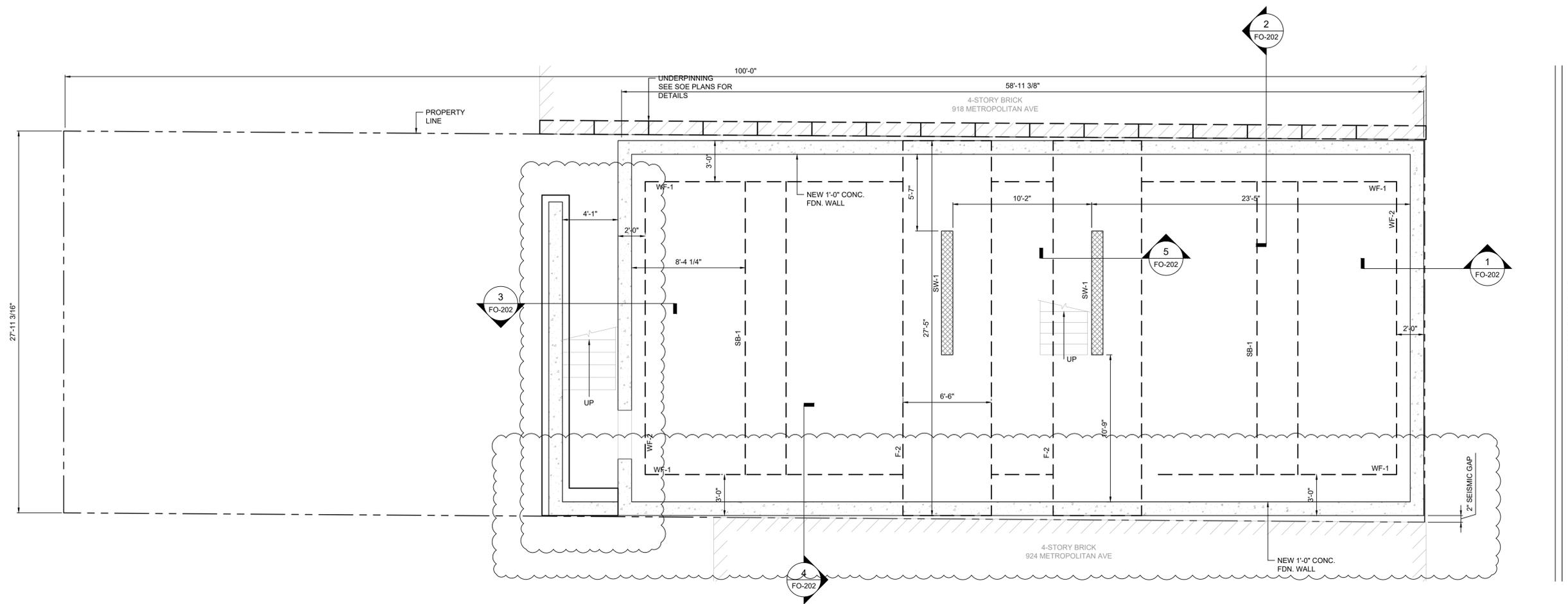
SEAL & SIGNATURE

 DATE: 09-14-21
 SCALE: AS NOTED
 DRAWING BY: A.P.
 CHECKED BY: G.J.C.
 DWG NO: **FO-101.01**
 SHEET NO: 4 OF 7

BSCAN STICKER

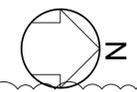
DOB APPROVAL STAMP

 APPROVED
 Date: 05/24/2023



FOUNDATION PLAN

SCALE: 1/4" = 1'-0"



- NOTES:
1. BOTT. OF FTG. ELEVATION IS -11'-8" U.O.N. ELEVATION IS RELATIVE TO SIDE WALK OR 13.59' NAVD
 2. ALL FTG. SHALL BEAR ON SOIL HAVING MIN. 2TSF BEARING CAPACITY.
 3. REFER TO FO-201 SERIES FOR FOUNDATION SECTIONS AND DETAILS.
 4. REFER TO S-301 SERIES FOR MASONRY SHEAR WALL DETAILS.
 5. REFER TO S.O.E. DWGS. FOR UNDERPINNING DETAILS DETAILS.

PLAY KEY:

	DENOTES CMU SHEAR WALL
	DENOTES 12" CONC. FDN. WALL

FOOTING SCHEDULE							
MARK	SIZE	DEPTH	REINFORCEMENT				REMARKS
			BOTT. REINF.		TOP. REINF.		
			LONG	SHORT	LONG	SHORT	
F-1	SEE PLANS	24"	#8 @ 12" O.C.	SEE PLAN FOR ADD'L REINF.			
F-2	SEE PLANS	24"	#9 @ 6" O.C.	#5 @ 6" O.C.	#9 @ 6" O.C.	#5 @ 6" O.C.	---
WF-1	SEE PLANS	24"	2 #5 CONT	#5 @ 12 O.C.	---	---	---
WF-2	SEE PLANS	24"	3 #8 CONT	#5 @ 12 O.C.	---	---	---
SB-1	SEE PLANS	24"	6 #8	6 #8	6 #8	6 #8	---



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OWNER:

DOB NOW BUILD JOB # :
#B00715872-S3

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NO.	DATE	DESCRIPTION
6	04-06-22	PROGRESS SET
5	03-29-22	PROGRESS SET
4	03-24-22	PROGRESS SET
3	03-18-22	PROGRESS SET
2	02-07-22	PROGRESS SET
1	01-11-22	PROGRESS SET

REVISIONS:
PROJECT
920 METROPOLITAN AVENUE, BROOKLYN, NY-11211

DRAWING TITLE:
TYPICAL FOUNDATION DETAILS

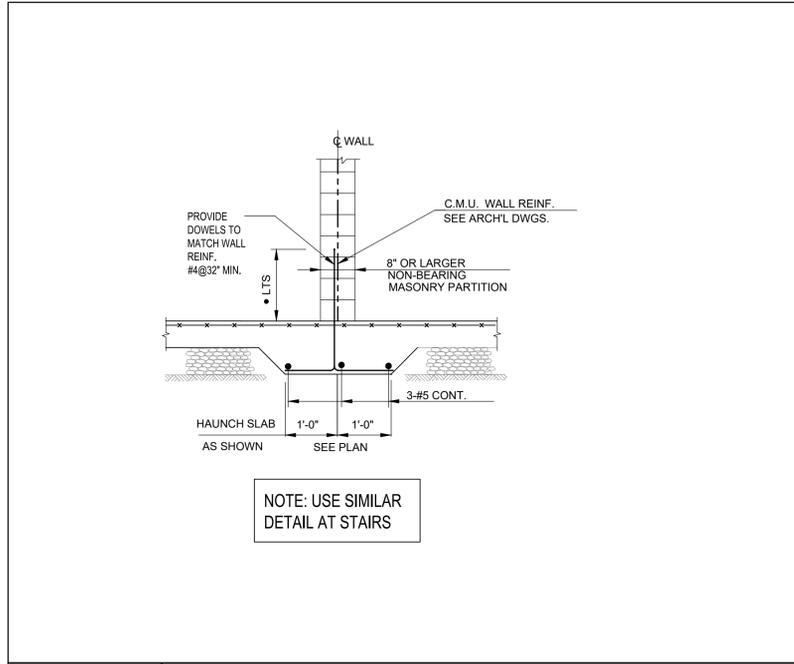
SEAL & SIGNATURE

DATE: 09-14-21
 SCALE: AS NOTED
 DRAWING BY: A.P.
 CHECKED BY: G.J.C.
 DWG NO: FO-201.00
 SHEET NO: 5 OF 13

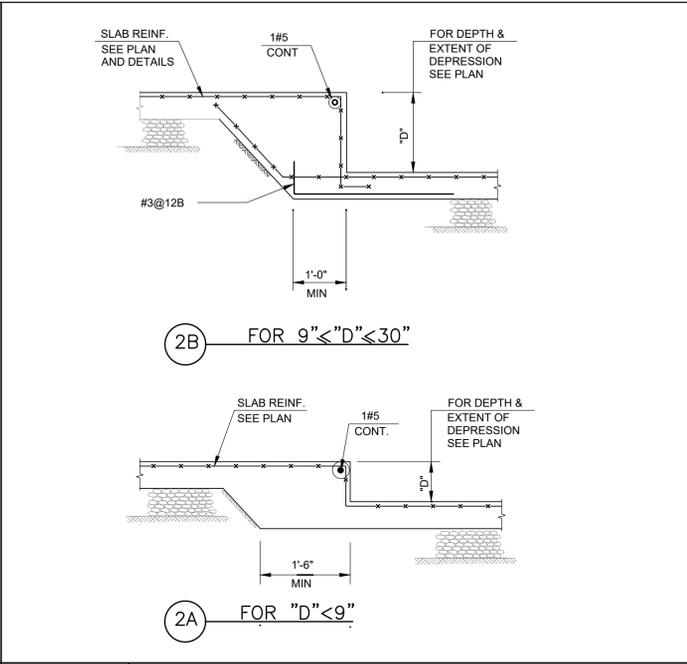
BSCAN STICKER

DOB APPROVAL STAMP

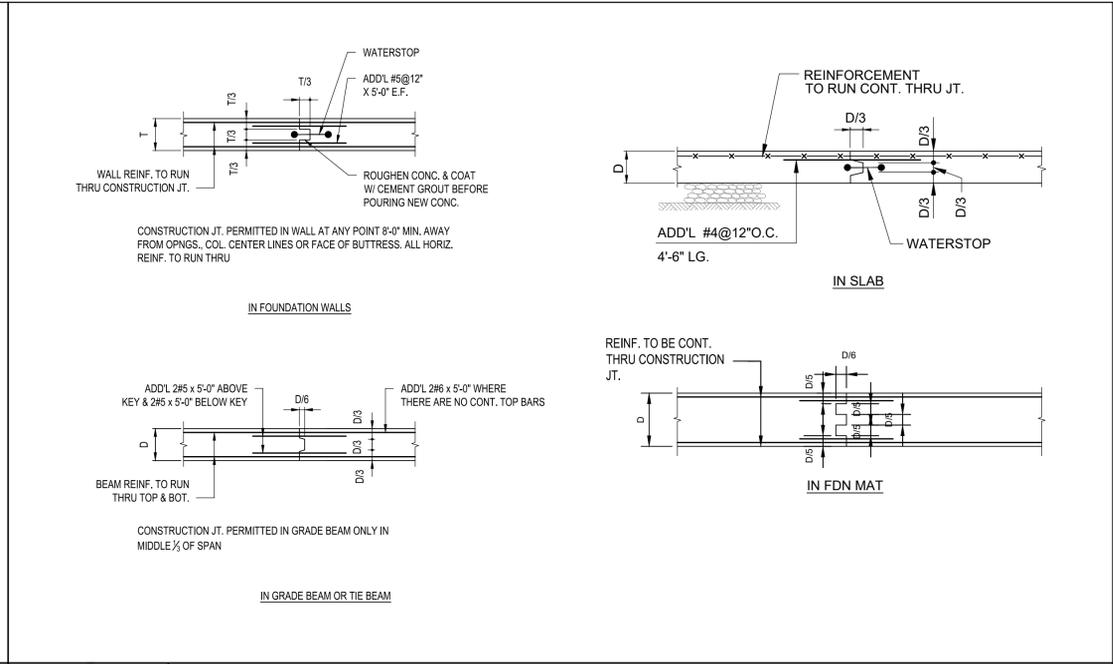
Cyr Apolinar Garcia
 APPROVED
 Date: 09/09/2022



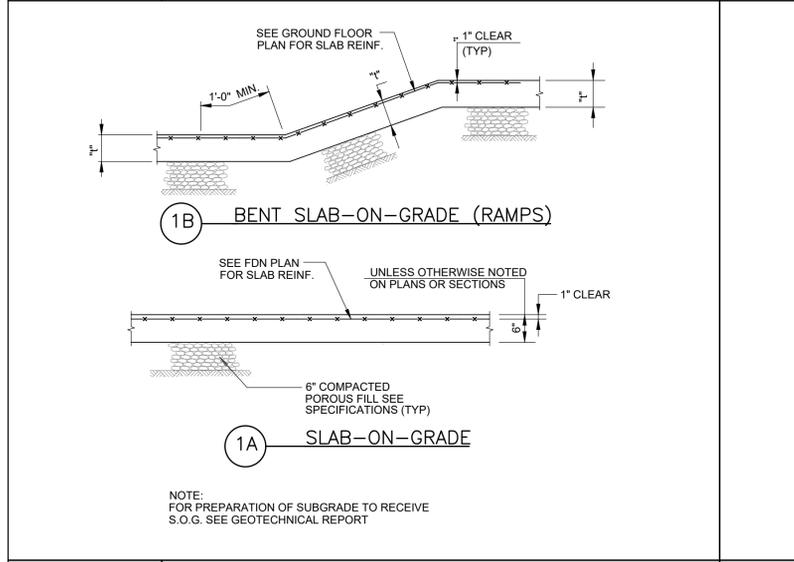
01 SCALE: NTS
 MASONRY PARTITION BEARING ON SLAB-ON-GRADE



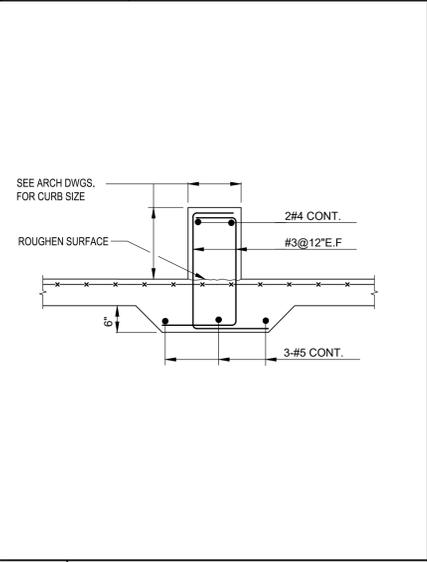
02 SCALE: NTS
 TYPICAL DETAILS OF DEPRESSION IN SLAB-ON-GRADE



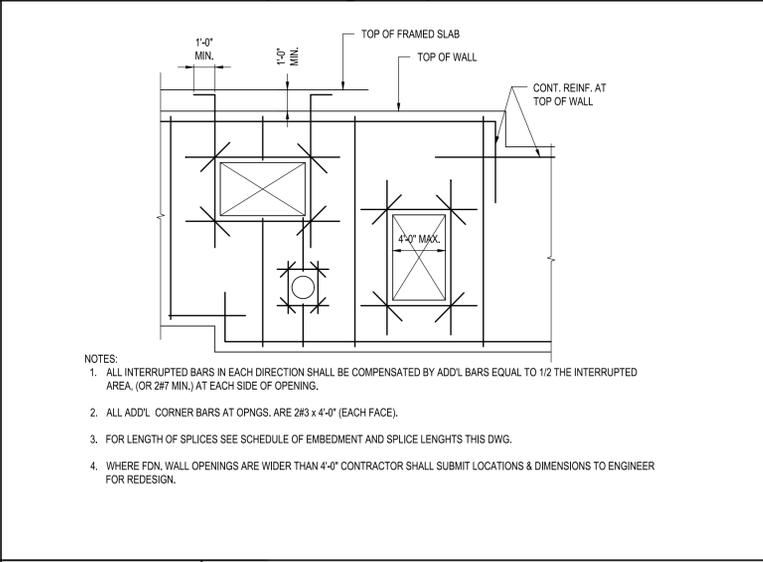
03 SCALE: NTS
 TYPICAL CONSTRUCTION JOINT DETAILS



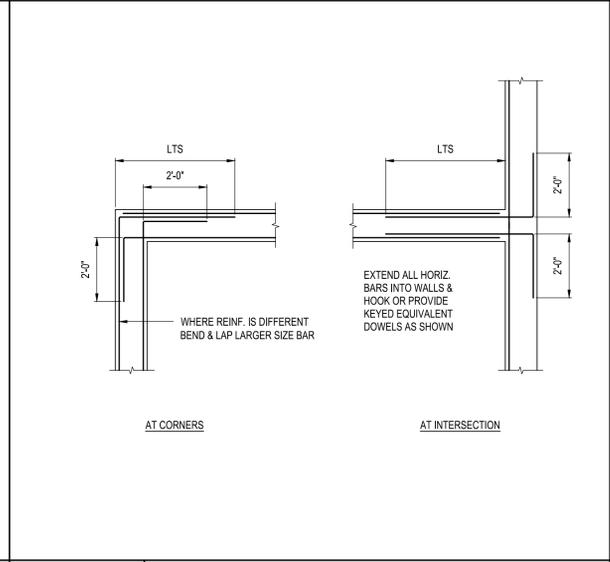
05 SCALE: NTS
 TYPICAL SLAB-ON-GRADE



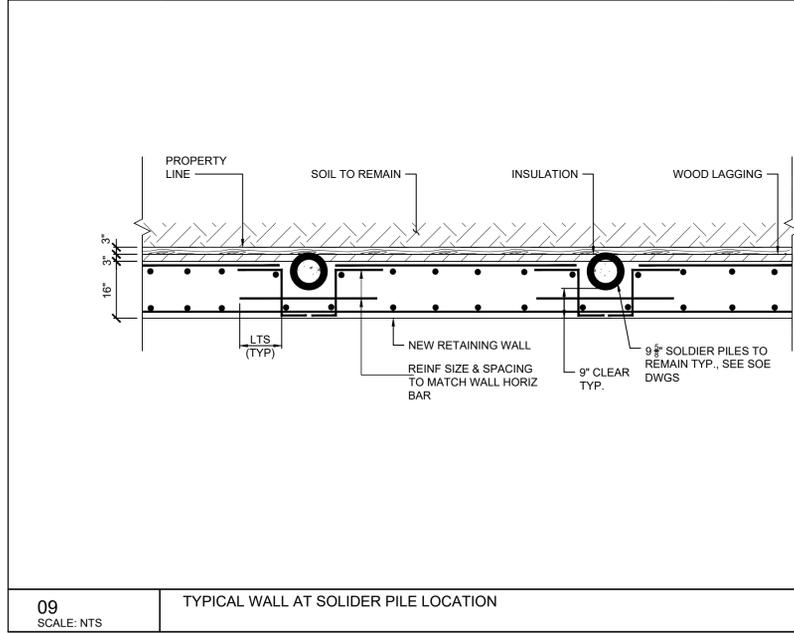
04 SCALE: NTS
 TYPICAL DETAIL AT CURB ON SLAB-ON-GRADE



06 SCALE: NTS
 TYPICAL DETAIL OF ADD'L REINFORCEMENT AT CONC. FOUNDATION WALL OPENINGS AND OF SETPS IN TOP & BOTTOM OF FOUNDATION WALL



07 SCALE: NTS
 HORIZONTAL WALL REINFORCEMENT DETAIL



09 SCALE: NTS
 TYPICAL WALL AT SOLIDER PILE LOCATION



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DOB NOW BUILD JOB # :
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NO.	DATE	DESCRIPTION
9	05/10/23	PER DOB
8	03/07/23	UPDATED FDN
7	01/31/23	FOR PAA
6	04-06-22	PROGRESS SET
5	03-29-22	PROGRESS SET
4	03-24-22	PROGRESS SET
3	03-18-22	PROGRESS SET
2	02-07-22	PROGRESS SET
1	01-11-22	PROGRESS SET

REVISIONS:

PROJECT
920 METROPOLITAN AVENUE, BROOKLYN, NY-11211

DRAWING TITLE:
FOUNDATION SECTIONS

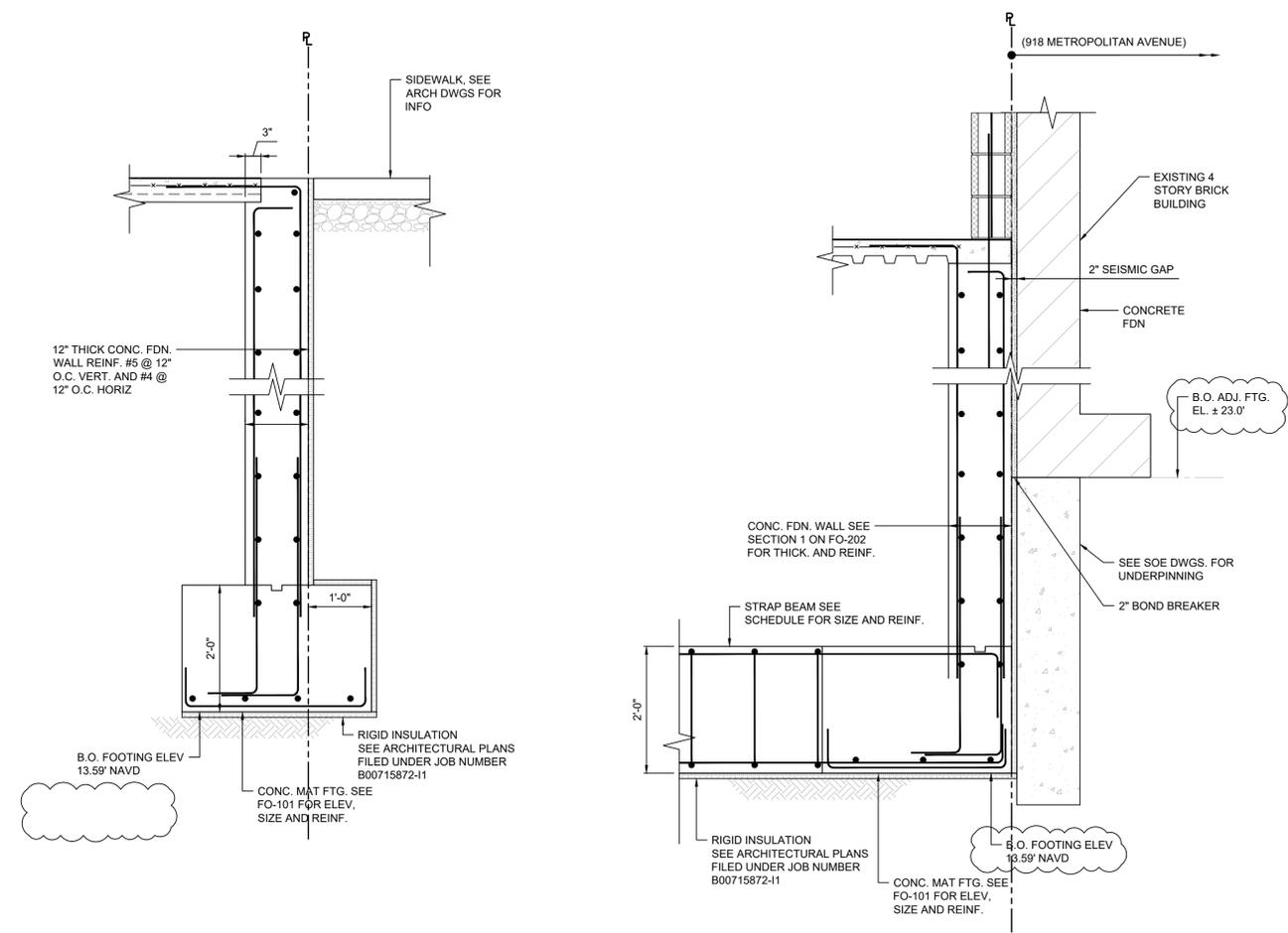
SEAL & SIGNATURE

DATE: 09-14-21
SCALE: AS NOTED
DRAWING BY: A.P.
CHECKED BY: G.J.C.
DWG NO: **FO-202.01**
SHEET NO: 6 OF 7

BSCAN STICKER

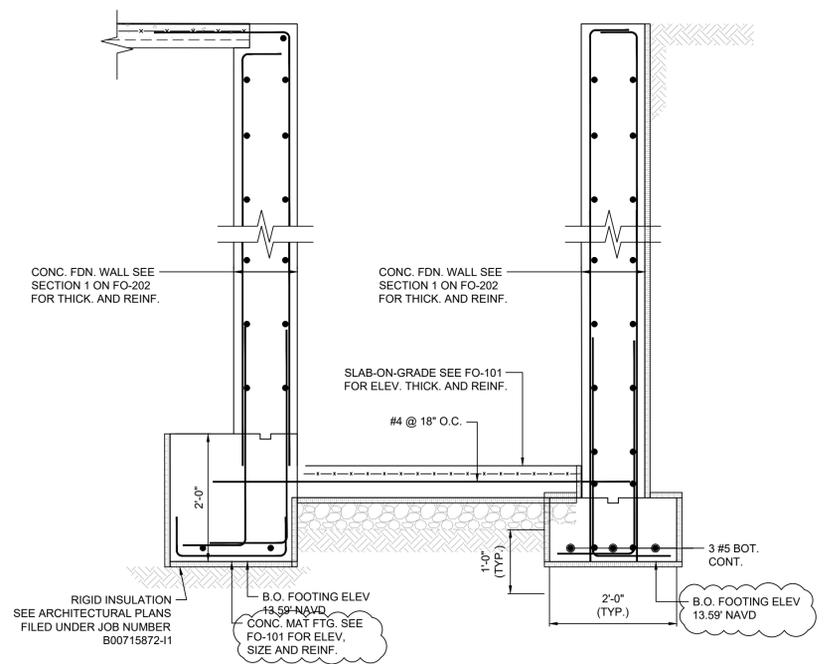
DOB APPROVAL STAMP

Date: 05/24/2023

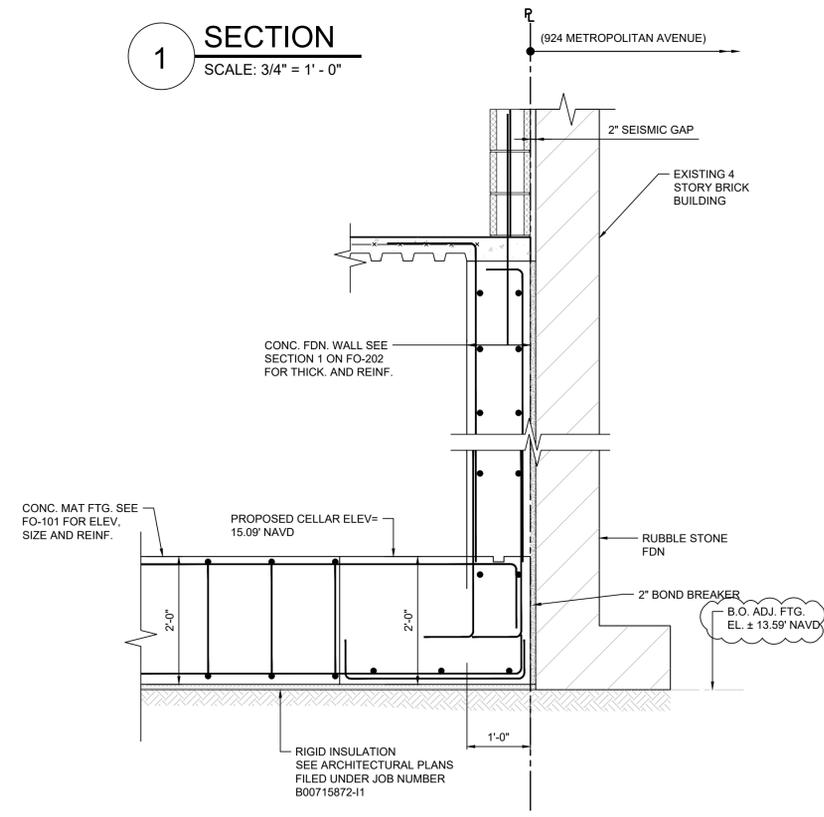


1 SECTION
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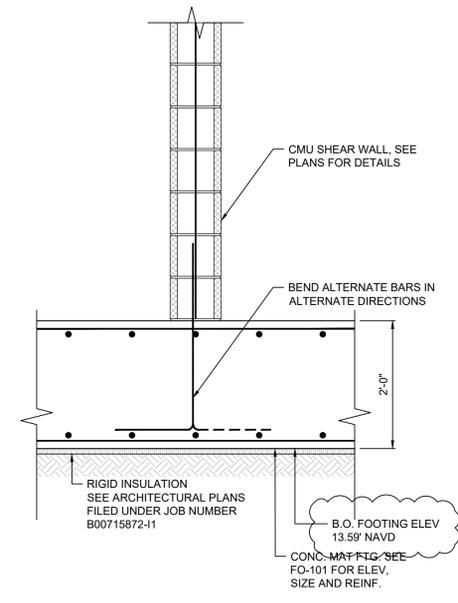
2 SECTION
SCALE: 3/4" = 1' - 0"



3 SECTION
SCALE: 3/4" = 1' - 0"



4 SECTION
SCALE: 3/4" = 1' - 0"



5 SECTION
SCALE: 3/4" = 1' - 0"

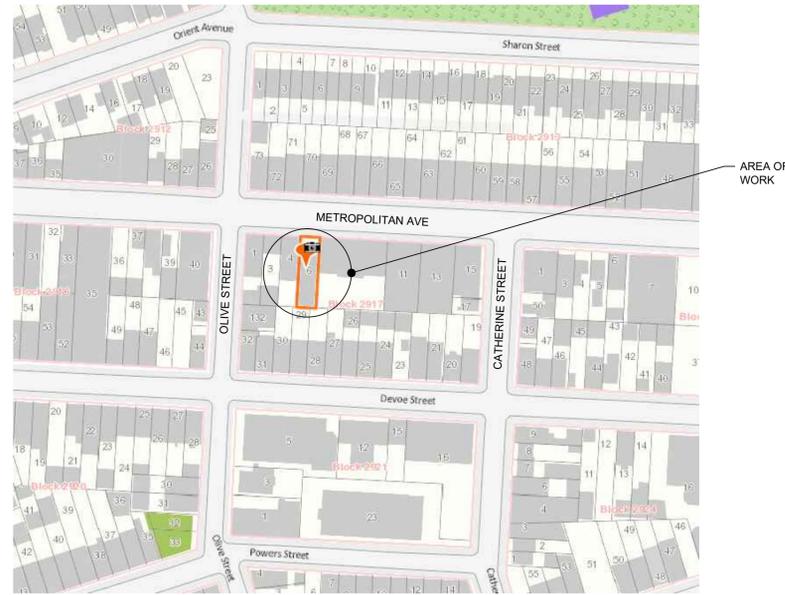
PROJECT DESCRIPTION: NEW 4-STORY MASONRY BUILDING AT 920 METROPOLITAN AVENUE, BROOKLYN, NEW YORK - 11211

SCOPE OF WORK:

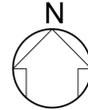
SUPERSTRUCTURE: THE SUPER STRUCTURE SHALL BE MASONRY BEARING WALLS SUPPORTING STEEL BEAMS. THE STRUCTURAL SLAB SHALL BE LIGHT WEIGHT CONCRETE SLAB OVER METAL DECK. MASONRY SHEAR WALLS SHALL BE USED AS LATERAL FORCE RESISTING SYSTEM FOR WIND AND SEISMIC FORCES.

LIST OF SHEETS

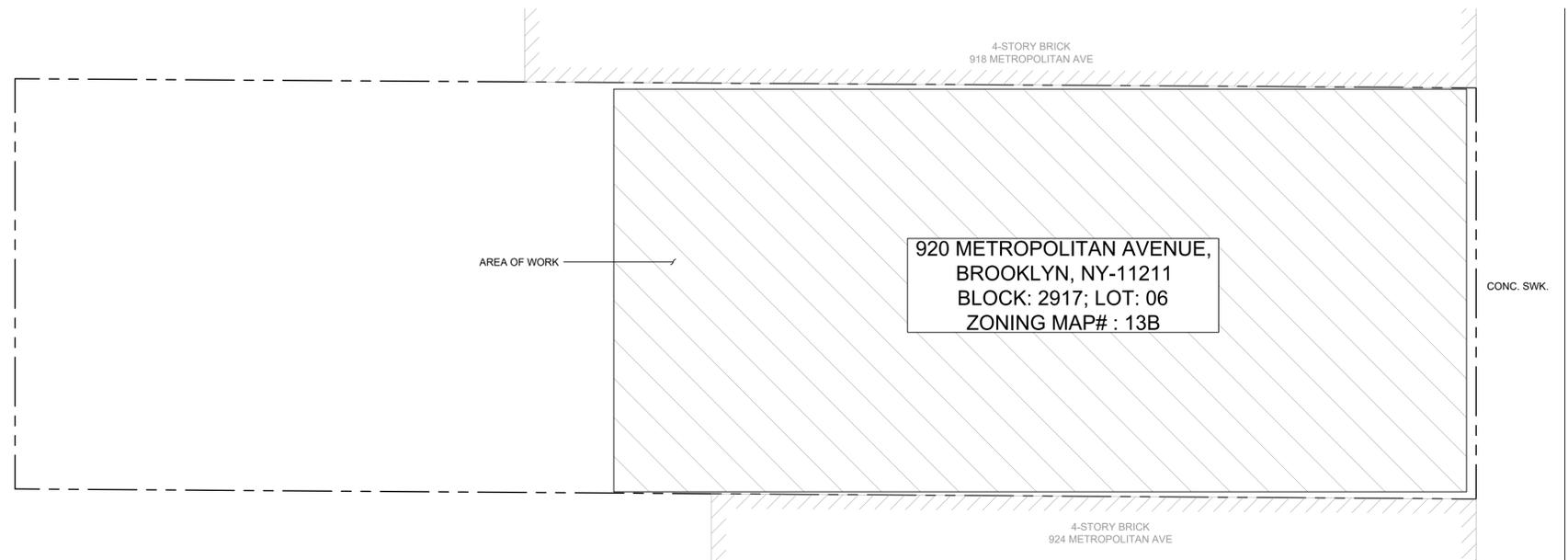
SHEET NUMBER	SHEET TITLE	DRAWING TITLE
1	T-001.01	TITLE SHEET AND PLOT PLAN
2	S-001.00	GENERAL NOTES
3	S-002.00	GENERAL NOTES
4	S-003.00	GENERAL NOTES
5	S-101.01	1ST FLOOR FRAMING PLAN
6	S-102.00	2ND AND 3RD FLOORS FRAMING PLAN
7	S-103.00	4TH FLOOR FRAMING PLAN
8	S-104.00	ROOF AND BULKHEAD FRAMING PLANS
9	S-301.00	SHEAR WALL SCHEDULE
10	S-302.00	TYPICAL CMU DETAILS
11	S-401.00	TYPICAL MASONRY DETAILS
12	S-402.00	TYPICAL STEEL DETAILS
13	S-501.00	SECTIONS



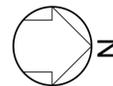
KEY PLAN:



LIST OF RELATED JOB NOS.	
JOB TYPE	JOB NUMBER
GENERAL CONSTRUCTION (NB)	B00715872-11
MECHANICAL	B00715872-S6
PLUMBING	B00715872-S7
SPRINKLER	B00715872-S4
STRUCTURAL	B00715872-S3
FOUNDATION	B00715872-S2
SOE	B00715872-S1



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



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2	02-07-22	PROGRESS SET
1	01-11-22	PROGRESS SET

REVISIONS:

PROJECT

920 METROPOLITAN AVENUE, BROOKLYN, NY-11211

DRAWING TITLE:

TITLE SHEET AND PLOT PLAN

SEAL & SIGNATURE



DATE: 09-14-21
SCALE: AS NOTED
DRAWING BY: A.P.
CHECKED BY: G.J.C.
DWG NO: T-001.01

SHEET NO: 1 OF 13

BSCAN STICKER

DOB APPROVAL STAMP

GENERAL NOTES:

- ALL WORK TO CONFORM TO NEW YORK CITY BUILDING CODE REQUIREMENTS.
- THE DESIGN PLANS AND NOTES, TO THE BEST OF ENGINEER'S KNOWLEDGE, COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE NEW YORK CITY BUILDING CODE.
- WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
- SECTIONS AND DETAILS NOT DRAWN TO SCALE ARE FOR DIAGRAMMATIC PURPOSES ONLY AND SHOULD NOT BE UNDERSTOOD TO SHOW SPECIFIC DETAILED INFORMATION. INFORMATION PERTAINING TO SIZES, DIMENSIONS, NUMBER OF BOLTS AND OR REBAR, ETCETERA, MAY BE FOUND IN SCHEDULES PROVIDED.
- CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
- ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SHOULD NOT BE USED FOR ORDERING AND/OR FABRICATING MATERIAL. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO ORDERING AND/OR FABRICATING MATERIALS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BY MEASUREMENTS AT THE JOB SITE AND SHALL TAKE ANY AND ALL OTHER MEASUREMENTS NECESSARY TO VERIFY THE DRAWINGS AND TO PERFORM HIS WORK PROPERLY.
- THE EXCAVATION / UNDERPINNING / SHEETING CONTRACTOR SHALL EXERCISE CAUTION IN THE PROCESS OF THE WORK. IF DAMAGE OCCURS TO THE ADJACENT BUILDING ELEMENTS OR CONTENTS, DUE TO THE NEGLIGENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO RECTIFY ALL DAMAGE AND/OR REIMBURSE PROPERTY OWNERS FOR ANY AND ALL DAMAGES, TO THE SATISFACTION OF ALL CONCERNED PARTIES.
- THE EXCAVATION / UNDERPINNING / PILING / SHEETING CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR THE SAFETY OF ALL ADJACENT STRUCTURES.
- ANY AND ALL WORK PERFORMED WHICH AFFECTS THE ADJACENT BUILDING OPERATIONS SHALL CAUSE A MINIMUM OF DISTURBANCE TO THE NORMAL OPERATION OF AFFECTED PARTS OF THE BUILDING.

STRUCTURAL STEEL NOTES:

- UNLESS OTHERWISE NOTED ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
 - A. WIDE-FLANGE SECTIONS: ASTM A992 (Fy = 50 KSI) GRADE 50
 - B. ANGLES, CHANNELS, PLATE, AND MEMBERS BUILT-UP FROM PLATE: ASTM A36 (Fy = 36 KSI)
 - C. TUBES: ASTM A500 GRADE B (Fy = 46 KSI)
 - D. PIPES: ASTM A53 GRADE B TYPE E OR TYPE S (Fy = 35 KSI)
 - E. HIGH STRENGTH RODS: ASTM A572 GRADE 60 (Fy = 60 KSI)
- UNLESS OTHERWISE NOTED, BOLTED CONNECTIONS SHALL BE MADE WITH A325 TYPE 1 BOLTS (MINIMUM DIAMETER 3/4"). BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH "ALLOWABLE STRESS DESIGN - SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
- BOLTS SPECIFICALLY DESIGNATED AS SLIP-CRITICAL ("SC") SHALL BE FULLY TENSION AND ARE SUBJECT TO CONTROLLED INSPECTIONS. ALL OTHER BOLTS MAY BE TIGHTENED TO THE SNUG-TIGHT CONDITION AND ARE NOT SUBJECT TO CONTROLLED INSPECTIONS.
- ANCHOR BOLTS SHALL BE F1554 GRADE 55 (Fy = 55 KSI) WITH SUPPLEMENTARY REQUIREMENT S1 FOR WELDABILITY, UNLESS OTHERWISE NOTED.
- DESIGN OF STEEL CONNECTIONS:
 - A. CONNECTIONS NOT FULLY DETAILED IN THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY CONTRACTOR. CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK TO SUPERVISE THE PREPARATION OF THE SHOP DRAWINGS FOR THESE CONNECTIONS, AND TO CHECK THE SHOP DRAWINGS FOR COMPLIANCE WITH CONTRACT DOCUMENTS, GOVERNING CODES, AND PREVAILING STANDARDS OF PRACTICE. THE SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THIS PROFESSIONAL ENGINEER AS EVIDENCE OF COMPLIANCE WITH THESE REQUIREMENTS.
 - B. STEEL CONNECTIONS SHALL BE DESIGNED TO RESIST THE ULTIMATE FORCES INDICATED ON THE DRAWINGS. WHERE FORCES ARE NOT GIVEN BEAM CONNECTIONS SHALL BE DESIGNED FOR MINIMUM REACTIONS AS BELOW:

W8	10 KIPS
W8 X 15 AND GREATER	20 KIPS
W10	15 KIPS
W12	25 KIPS
W14	35 KIPS
 - C. STEEL CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - LOAD AND RESISTANCE FACTOR DESIGN FOR STEEL BUILDINGS", FOLLOWING THE DESIGN AND DETAILING RECOMMENDATIONS OF THE AISC "MANUAL OF STEEL CONSTRUCTION 13TH EDITION".
 - D. DESIGN OF STEEL CONNECTIONS FOR SHEAR SHALL INCLUDE THE EFFECTS OF ECCENTRICITY.
 - E. CONTRACTOR SHALL PROVIDE STIFFENERS AND REINFORCING PLATES WHERE NEEDED TO RESIST THE LOCAL EFFECTS OF DESIGN LOADS.
 - F. "MC" ON PLANS DENOTES MOMENT CONNECTION WHICH IS REQUIRED TO DEVELOP THE FULL MOMENT AND SHEAR CAPACITY OF THE MEMBER.
- WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS LICENSED BY THE COMMISSIONER OF BUILDINGS AND SHALL CONFORM TO ARTICLE 27-616. WELDING ELECTRODES SHALL BE CLASS E70XX
- SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL. NO FABRICATION ON STEEL SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS. SHOP DRAWINGS ARE PREPARED AND USED BY THE CONTRACTOR AS INSTRUMENTS TO SEQUENCE HIS WORK AND TO FACILITATE FABRICATION AND ERECTION. REVIEW OF SHOP DRAWINGS SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECT REQUIREMENTS AND FOR VERIFICATION OF CONTRACTOR DESIGNED CONNECTIONS. FABRICATOR SHALL ALLOW FOR MINIMUM REVIEW PERIOD OF 10 WORKING DAYS. THE FABRICATION SCHEDULE SHALL ALSO ALLOW FOR AT LEAST ONE RESUBMISSION OF EACH DRAWING. STEEL FABRICATOR SHALL PRODUCE A FULL SET OF AS-BUILTS FOR CLIENT AT THE COMPLETION OF THE WORKS. AS-BUILTS SHALL INCLUDE ALL FIELD MODIFICATIONS TO THE STRUCTURAL STEEL.
- PAINT ALL STEEL AS FOLLOWS, UNLESS OTHERWISE NOTED IN ARCHITECTURAL SPECIFICATIONS:
 - G. INTERIOR STRUCTURAL STEEL/FIREPROOFED: NONE
 - H. INTERIOR STRUCTURAL STEEL TO RECEIVE FINISH PAINT: FIRST PREPARE STEEL ACCORDING TO SSPC-SP1 AND SP2 OR SP3. RUST PROHIBITIVE PRIMER CONFORMING TO IT-P-86, TYPE 1, OR TNEMC EXTERIOR #10-99 OR 88-555.
 - I. LINTELS BEAMS, AND COLUMNS EMBEDDED IN MASONRY: FIRST PREPARE STEEL ACCORDING TO SSPC-SP1, AND SP2 OR SP3. 2-COATS, 4-6 MILS THICK EACH, TNEMC SERIES 135 CHEM BUILD, OR WHEN TEMPERATURE IS BELOW 50 DEGREES: 1-COAT TNEMC 530 POLY-URA-PRIME, 1-2 MILS THICK, AND 1-COAT TNEMC 161 TNEMC-FASCURE, 3-4 MILS.
 - J. STEEL EXPOSED TO WEATHER: FIRST PREPARE STEEL ACCORDING TO SSPC-SP1 AND SP2 OR SP3. PAINT 1 SHOP COAT TNEMC 530 POLY-URA-PRIME, 1-2 MILS THICK. APPLY 2 FIELD COATS TNEMC 66 UNLESS NOTED OTHERWISE IN THE ARCHITECTURAL SPECIFICATIONS.

IF EXPOSED TO SUNLIGHT (FADING CRITICAL-COOLING TOWER):
PRIMER: TNEMC SERIES 530, 1-2 MILS DFT.
INTERMEDIATE: TNEMC SERIES 66, 3-5 MILS DFT.
TOP COAT: TNEMC SERIES 73, 3-5 MILS DFT.

STRUCTURAL METAL DECKING NOTES:

- COMPOSITE METAL DECK SHALL TYPICALLY BE CONTINUOUS OVER A MINIMUM OF THREE (3) SPANS IN THE DIRECTION INDICATED. USE SINGLE SPANS ONLY WHERE REQUIRED BY FRAMING GEOMETRY.
- PROVIDE COLUMN CLOSURES, RIDGE AND VALLEY PLATES, CANT STRIPS, RECESSED SUMP PANS, PLATES AT PIPING PENETRATIONS ETC. PROVIDE SUPPLEMENTAL FRAMING AT OPENINGS AS REQUIRED FOR SUPPORT OF METAL DECK. COORDINATE OPENINGS WITH THE DRAWINGS. PROVIDE 24" SQUARE 12 GAUGE REINFORCING PLATE AT ALL ROOF DRAINS.
- NO LOADS EXCEEDING 50 POUNDS SHALL BE PERMITTED TO BE HUNG FROM ANY METAL DECKING. HANGERS FOR DUCTWORK, PIPING, ETC. SHALL BE HUNG DIRECTLY FROM STRUCTURAL STEEL WORK OR SUPPLEMENTARY MEMBERS OR ARCHORS EMBEDDED IN THE CONCRETE. SUBMIT HANGING LOAD DETAILS FOR REVIEW. TOTAL HUNG LOAD SHALL NOT EXCEED 5 PSF WHETHER HUNG FROM THE SLAB OR THE STRUCTURAL STEEL.
- ALL METAL DECK SHALL BE FABRICATED FROM STEEL TYPE ASTM A446, HAVING A MINIMUM YIELD STRENGTH OF 33,000 PSI. ALL DECKING SHALL BE HOT-DIPPED GALVANIZED.
- METAL DECK FOR FLOORS AND ROOF SHALL BE COMPOSITE METAL DECK-AS MANUFACTURED BY UNITED STEEL DECK INC., OR EQUAL WITH MINIMUM GAUGE OF THE METAL DECK OF 18 UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- ALL DECKING SHALL BE WELDED TO THE STRUCTURAL STEEL BY QUALIFIED WELDERS USING PRE-QUALIFIED PROCEDURES. METAL DECKING SHALL BE WELDED AT 12 INCHES MAXIMUM ON CENTER TO THE SUPPORTING STEEL WITH 3/4 INCH DIAMETER WELD. SIDE LAPS SHALL BE FASTENED AT 36 INCHES MAXIMUM ON CENTER.
- PROVIDE CONTINUOUS SHEET METAL CLOSURES, CANT STRIPS, RIDGE AND VALLEY PLATES, AT ALL DECK ENDS, SLAB EDGES, ETC., AS REQUIRED TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF INSULATION AND ROOFING OR TO PREVENT THE FLOW OF CONCRETE.
- ALL METAL DECKING SHALL CONFORM TO THE STEEL DECK INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS, UNLESS NOTED OTHERWISE.
- THE MINIMUM ALLOWABLE DIAPHRAGM SHEAR STRENGTH SHALL BE 400 PLF, UNLESS NOTED OTHERWISE. NO STRESS INCREASE IS ALLOWED.
- PROVIDE CALCULATIONS FOR ALL METAL DECKS CONSIDERING DIFFERENT SPAN LENGTHS AND CONCRETE THICKNESS.
- THE FABRICATOR/ERECTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW, ENGINEERED AND CHECKED DRAWINGS SHOWING DECK LAYOUT AND DETAILS, LOCATION, GAUGE AND SIZE OF EACH SHOP PIECE OF DECKING. THE SHOP DRAWINGS SHALL CLEARLY SHOW WELDING DETAILS TO STRUCTURAL FRAMING AND SIDE LAP CONNECTION DETAILS.
- PROVIDE CLOSURE PLATES AT ALL NEW SLAB EDGES, BOTH IN THE NEW CONSTRUCTION AND EXISTING BUILDING. COORDINATE THE EDGE OF SLAB DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS. AT CONCRETE EXPOSED AREAS THE EDGE SHOULD BE BOARD FINISH.

MASONRY NOTES:

- GENERAL MASONRY NOTES:**
- ALL STRUCTURAL MASONRY DESIGN AND CONSTRUCTION SHALL COMPLY WITH TMS 402-13/ACI 530-13/ASCE 5-13. ONLY STRUCTURAL MASONRY SHOW ON PLAN AND MASONRY REINFORCEMENT SCHEDULE.
 - LOAD USED FOR MASONRY STRUCTURE IS LISTED IN GENERAL LOADING NOTES, UNLESS OTHERWISE NOTED
 - THE COMPRESSIVE STRENGTH OF CONCRETE MASONRY IS DETERMINED BY UNIT STRENGTH METHOD. THE STRENGTH MUST BE VERIFIED AT THE FIELD BY INSPECTION ON QUALITY TEST.
 - PRIOR TO CONSTRUCTION, VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION.
 - CONDUITS, PIPES, AND SLEEVES THROUGH MASONRY WALL MUST BE COORDINATED WITH THE STRUCTURAL ENGINEER.

- MASONRY BLOCK SPECIFICATION:**
- THE MINIMUM COMPRESSIVE STRENGTH CMU SHALL BE F'M = 2,500 PSI, DETERMINED BY THE UNIT STRENGTH METHOD.
 - CMU SHALL BE LOAD-BEARING NORMAL WEIGHT AGGREGATE CONCRETE MASONRY UNITS CONFORMING TO THE REQUIREMENTS OF ASTM C-90 GRADE M OR S TYPE 1 WITH MINIMUM AVERAGE NET-AREA COMPRESSIVE STRENGTH OF 3750 PSI. USE TWO CELL HOLLOW BLOCK NOMINAL FACE SIZE 8" X 16" UNLESS OTHERWISE NOTED ON DRAWINGS AND/OR SCHEDULE.
 - MORTAR SHALL CONFORM TO ASTM C270. THE MINIMUM AVERAGE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 1800 PSI FOR TYPE S, AND 2500 PSI FOR TYPE M. MORTAR FOR LEVELING COURSE SHALL BE TYPE M OR S.
 - GROUT SHALL CONFORM TO ASTM C476. MINIMUM GROUT COMPRESSIVE STRENGTH OF SHALL BE EQUAL TO OR GREATER THAN F'M = 2,500 PSI.
 - ADMIXTURES ARE NOT PERMITTED IN SELF-CONSOLIDATING GROUT.
 - THE MINIMUM COMPRESSIVE STRENGTH OF BRICK, f_m, SHALL BE 2200 PSI FOR AN INDIVIDUAL UNITS. AND ALL BRICKS SHALL BE OF TYPE MW (MODERATE EXPOSURE).

- MASONRY REINFORCEMENT SCHEDULE AND INSTRUCTION:**
- DEFORMED REINFORCING BARS MUST CONFORM TO ASTM A615 GRADE 60.
 - ALL CELLS AT REBAR LOCATIONS MUST BE FILLED SOLID WITH GROUT.
 - MINIMUM VERTICAL REINFORCEMENT MUST BE 1-#5 AT 40" O.C. CONTINUOUS BETWEEN SUPPORTS, AT ALL CORNERS, AND AT EDGE OF OPENINGS. DEVELOPMENT, LAP SPLICE, AND BEND LENGTH MUST FOLLOW REINFORCING NOTES IN THIS STRUCTURAL SET DOCUMENT.
 - MINIMUM HORIZONTAL REINFORCEMENT MUST BE JOINT REINFORCEMENT AT EVERY OTHER BLOCK COURSES 16" O.C. JOINT REINFORCEMENT SHALL BE ASTM 83 (ASTM A951), MILL GALVANIZED TO ASTM A641, DUR-O-WAL LADUR OR STANDARD TRUSS TYPE. USE 2 No. 9 SIDE ROD SPACED EVERY OTHER BLOCK COURSE IF REQUIRED.

- MASONRY PLACEMENT, GROUT, AND BOND BEAM INSTRUCTION:**
- ALL UNITS SHALL BE RUNNING BOND.
 - THE THICKNESS OF BED JOINT SHALL NOT EXCEED 5/8 INCH.
 - AT EDGE OF OPENINGS, PROVIDE 1-#5 AND EXTEND IT TO MINIMUM DEVELOPMENT BAR LENGTH BEYOND OPENING.
 - THE FIRST COURSE ON FOOTING SHALL BE FILLED SOLID WITH CONCRETE.
 - CONCRETE BLOCK BELOW BEAM BEARING POINTS SHALL BE FILLED SOLID WITH GROUT FOR TWO COURSES IN DEPTH AND THREE COURSES IN WIDTH
 - A CONTINUOUS BOND BEAM SHALL BE DIRECTLY BELOW EACH FLOOR FRAMING, REINFORCED WITH 2 #4 HORIZONTAL CONTINUOUS BARS.

- LINTELS:**
- STEEL LINTELS SHALL BE INSTALLED OVER ALL OPENINGS IN MASONRY WALLS AS FOLLOWS, UNLESS OTHERWISE NOTED ON PLANS:

WALL THICKNESS	LINTEL SCHEDULE		
	MAX. OPENING	LINTEL SIZE	
4"	0'-0" - 4'-0"	(1) 4"x3½"x5/16"	L
	4'-1" - 5'-0"	(1) 4"x3½"x3/8"	L
	5'-1" - 6'-6"	(1) 5"x3½"x5/16"	L
	6'-7" - 8'-0"	(1) 6"x3½"x5/16"	L
8"	0'-0" - 4'-0"	(2) 4"x3½"x5/16"	JL
	4'-1" - 5'-0"	(2) 4"x3½"x3/8"	JL
	5'-1" - 6'-6"	(2) 5"x3½"x5/16"	JL
	6'-7" - 8'-0"	W8x15+5/16"x7"e	II
12"	0'-0" - 4'-0"	(3) 4"x3½"x5/16"	JJL
	4'-1" - 5'-0"	(3) 4"x3½"x5/16"	JJL
	5'-1" - 6'-6"	(3) 5"x3½"x5/16"	JJL
	6'-7" - 8'-0"	W8x18+5/16"x11"e	JJL
	8'-1" - 9'-6"		II

LINTELS OVER 4'-0" LONG SHALL BE FIREPROOFED.

STRUCTURAL STABILITY NOTES:

- SPECIAL INSPECTION OF THE STRUCTURAL STABILITY AND INTEGRITY OF EXISTING STRUCTURES DURING CONSTRUCTION OPERATIONS IS REQUIRED BY THE NEW YORK CITY BUILDING CODE CHAPTER 17 (SECTION 1704.20.1).
- CONTRACTOR SHALL PREPARE A STRUCTURAL STABILITY PLAN AND SEQUENCE OF WORK, TO BE SUBMITTED TO THE STRUCTURAL ENGINEER (SIGNED AND SEALED BY THE PROFESSIONAL ENGINEERS RESPONSIBLE FOR ITS DESIGN) FOR REVIEW, AND APPROVAL PRIOR TO ANY DEMOLITION WORK OR MODIFICATIONS TO THE EXISTING STRUCTURE. THIS STRUCTURAL STABILITY PLAN SHALL CONFORM WITH NYCBC 1704.20.1 AND MUST INCLUDE:
 - A. LAYOUT AND DETAILS OF SHORING, BRACING, UNDERPINNING AND OTHER WORK REQUIRED TO MAINTAIN THE STABILITY AND INTEGRITY OF THE STRUCTURE DURING CONSTRUCTION OPERATIONS.
 - B. PHASING, STAGING, AND SEQUENCING OF SUCH OPERATIONS.
 - C. DESIGN LOADS FOR WHICH THE STABILITY SYSTEM HAS BEEN DESIGNED.
 - D. REQUIRED CONTROLLED INSPECTIONS AND THEIR FREQUENCY.
- OWNER SHALL RETAIN A LICENSED PROFESSIONAL ENGINEER TO PERFORM THE STRUCTURAL STABILITY INSPECTION OF EXISTING BUILDINGS. THIS INSPECTOR SHALL REVIEW AND FOLLOW THE APPROVED STRUCTURAL STABILITY PLAN AND SUBMIT AN IN WRITING ALL INSPECTION REPORTS TO THE ENGINEER OF RECORD. ALL INSPECTION REPORTS SHALL CONFORM TO NYCBC



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OWNER:

DOB NOW BUILD JOB # :

#B00715872-S3

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6	04-06-22	PROGRESS SET
5	03-29-22	PROGRESS SET
4	03-24-22	PROGRESS SET
3	03-18-22	PROGRESS SET
2	02-07-22	PROGRESS SET
1	01-11-22	PROGRESS SET

NO.	DATE:	DESCRIPTION
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REVISIONS:

PROJECT

920 METROPOLITAN AVENUE, BROOKLYN, NY-11211

DRAWING TITLE:

GENERAL NOTES

	DATE: 09-14-21
	SCALE: AS NOTED
	DRAWING BY: A.P.
	CHECKED BY: G.J.C.
	DWG NO: S-002.00
SHEET NO: 3 OF 13	

BSCAN STICKER

DOB APPROVAL STAMP

Cyr Apolinar Garcia
APPROVED
Date: 09/08/2022



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OWNER:

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NO.	DATE:	DESCRIPTION
7	01/31/23	FOR PAA
6	04-06-22	PROGRESS SET
5	03-29-22	PROGRESS SET
4	03-24-22	PROGRESS SET
3	03-18-22	PROGRESS SET
2	02-07-22	PROGRESS SET
1	01-11-22	PROGRESS SET

REVISIONS:

PROJECT
920 METROPOLITAN AVENUE, BROOKLYN, NY-11211

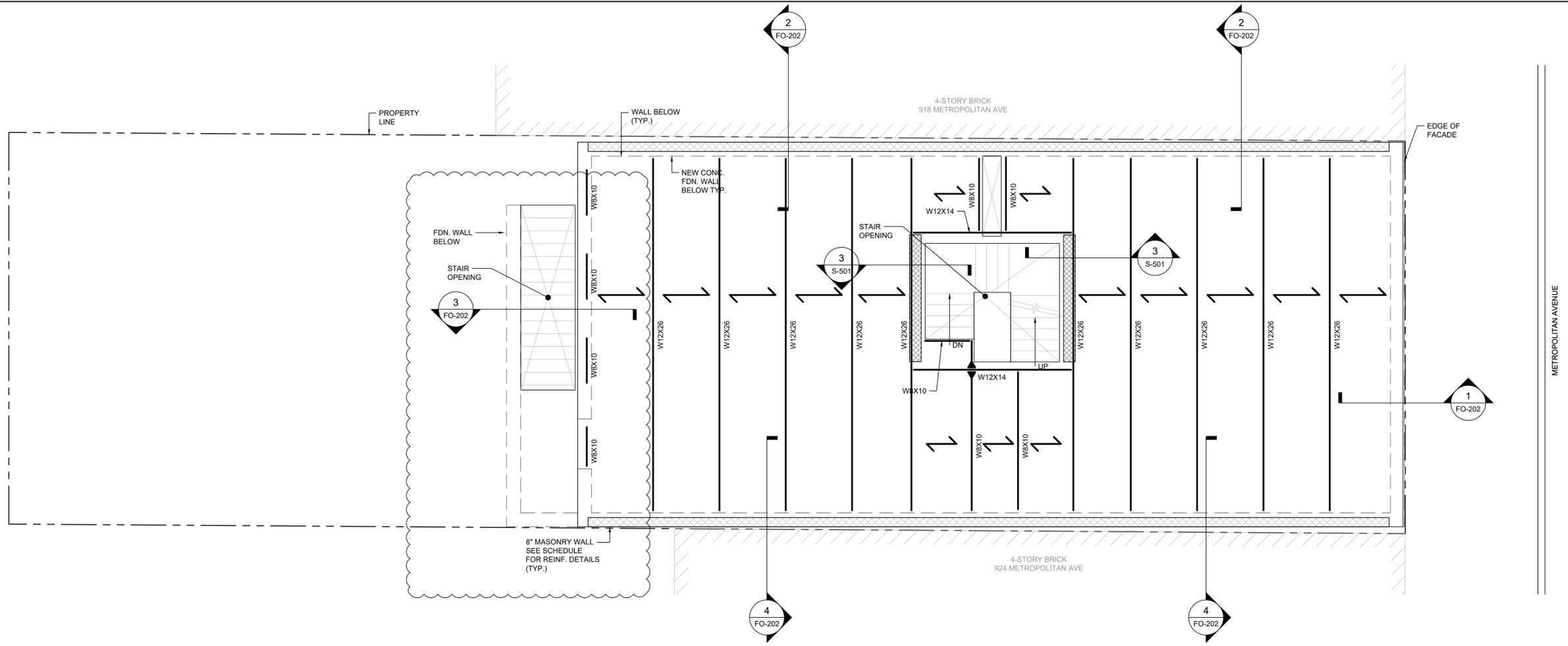
DRAWING TITLE:
1ST FLOOR FRAMING PLAN

SEAL & SIGNATURE

 DATE: 09-14-21
 SCALE: AS NOTED
 DRAWING BY: A.P.
 CHECKED BY: G.J.C.
 DWG NO: S-101.01
 SHEET NO: 5 OF 13

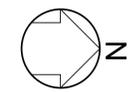
BSCAN STICKER

DOB APPROVAL STAMP



1ST FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"



- NOTES:
- TOP OF SLAB ELEVATION IS U.O.N.
 - 4 1/2" THICKNESS STRUCTURAL SLAB SPAN PERPENDICULAR TO THE STEEL BEAMS. THE SLAB CONSISTS OF 3 1/2" CONCRETE AND 1 1/2" 22 GA. METAL DECK SLAB SHALL BE REINF. WITH W6X6-W4X4 FROM TOP OF SLAB.
 - REFER TO S-200 SERIES FOR STEEL DETAILS.

- LEGEND:
- DENOTES 8" CMU BEARING WALL
 - DENOTES CMU SHEAR WALL
 - DENOTES SPAN DIRECTION OF METAL DECK
 - DENOTES STEEL BEAM
 - DENOTES MOMENT CONNECTION



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4	03-24-22	PROGRESS SET
3	03-18-22	PROGRESS SET
2	02-07-22	PROGRESS SET
1	01-11-22	PROGRESS SET

REVISIONS:
PROJECT
**920 METROPOLITAN
AVENUE, BROOKLYN,
NY-11211**

DRAWING TITLE:
**2ND AND 3RD FLOORS
FRAMING PLAN**

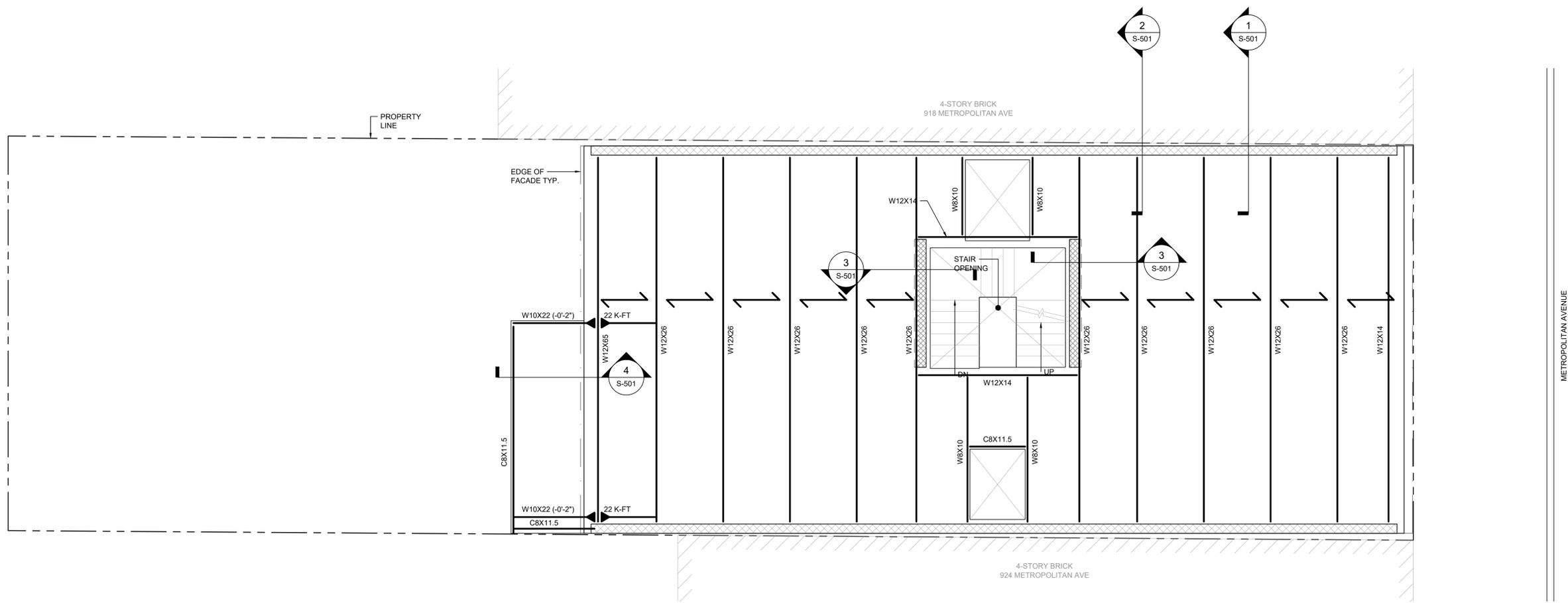
SEAL & SIGNATURE

DATE: 09-14-21
SCALE: AS NOTED
DRAWING BY: A.P.
CHECKED BY: G.J.C.
DWG NO:
S-102.00
SHEET NO: 6 OF 13

BSCAN STICKER

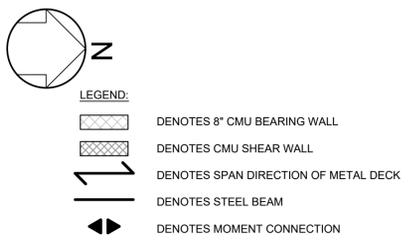
DOB APPROVAL STAMP

Cyr Apolinar Garcia
APPROVED
Date: 09/08/2022



2ND AND 3RD FLOORS FRAMING PLAN
SCALE: 1/4" = 1'-0"

- NOTES:
- TOP OF SLAB ELEVATION IS U.O.N.
 - 4 1/2" THICKNESS STRUCTURAL SLAB SPAN PERPENDICULAR TO THE STEEL BEAMS. THE SLAB CONSISTS OF 3 1/2" CONCRETE AND 1 1/2" 22 GA. METAL DECK SLAB SHALL BE REINF. WITH W6x6-W4x4 FROM TOP OF SLAB.
 - REFER TO S-200 SERIES FOR STEEL DETAILS.





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3	03-18-22	PROGRESS SET
2	02-07-22	PROGRESS SET
1	01-11-22	PROGRESS SET

NO.	DATE:	DESCRIPTION
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REVISIONS:

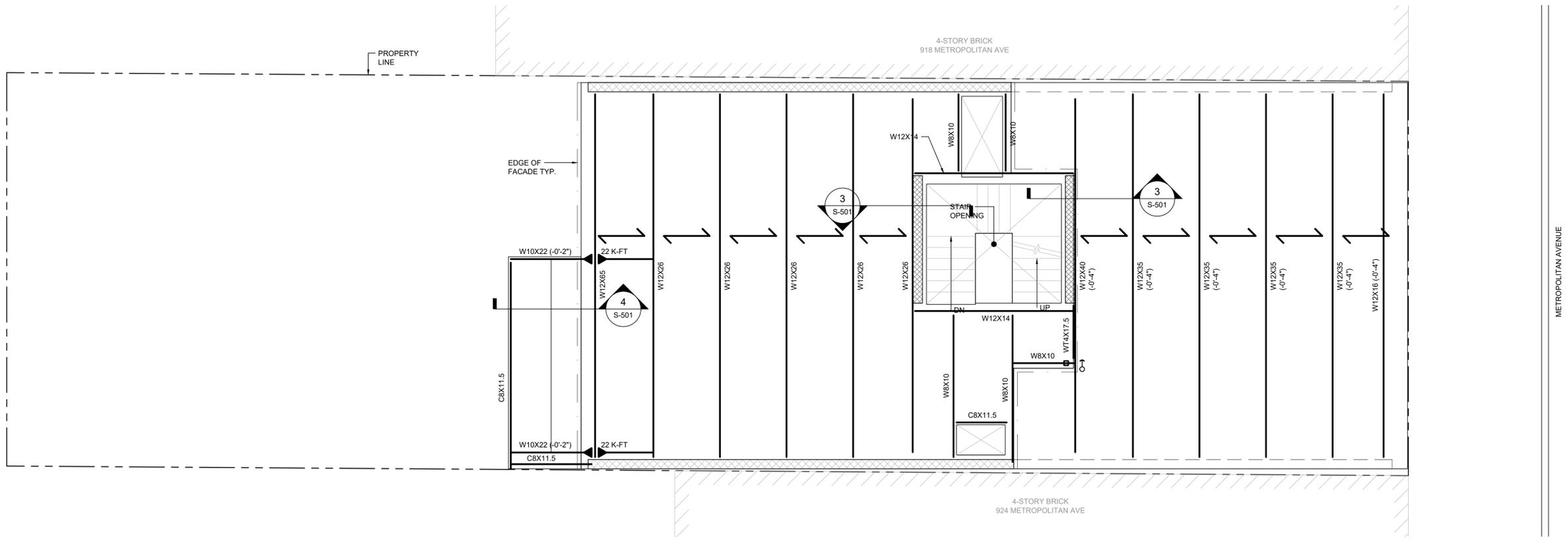
PROJECT
920 METROPOLITAN AVENUE, BROOKLYN, NY-11211

DRAWING TITLE:
4TH FLOOR FRAMING PLAN

	DATE: 09-14-21
	SCALE: AS NOTED
	DRAWING BY: A.P.
	CHECKED BY: G.J.C.
	DWG NO: S-103.00
SHEET NO: 7 OF 13	

BSCAN STICKER

DOB APPROVAL STAMP



4TH FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"



- NOTES:
- TOP OF SLAB ELEVATION IS U.O.N.
 - 4 1/2" THICKNESS STRUCTURAL SLAB SPAN PERPENDICULAR TO THE STEEL BEAMS. THE SLAB CONSISTS OF 3 1/2" CONCRETE AND 1 1/2" 22 GA. METAL DECK SLAB SHALL BE REINF. WITH W6x6-W4x4 FROM TOP OF SLAB.
 - REFER TO S-200 SERIES FOR STEEL DETAILS.

LEGEND:

- DENOTES 8" CMU BEARING WALL
- DENOTES CMU SHEAR WALL
- DENOTES SPAN DIRECTION OF METAL DECK
- DENOTES STEEL BEAM
- DENOTES MOMENT CONNECTION



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4	03-24-22	PROGRESS SET
3	03-18-22	PROGRESS SET
2	02-07-22	PROGRESS SET
1	01-11-22	PROGRESS SET

REVISIONS:
PROJECT

920 METROPOLITAN AVENUE, BROOKLYN, NY-11211

DRAWING TITLE:
ROOF AND BULKHEAD FRAMING PLANS

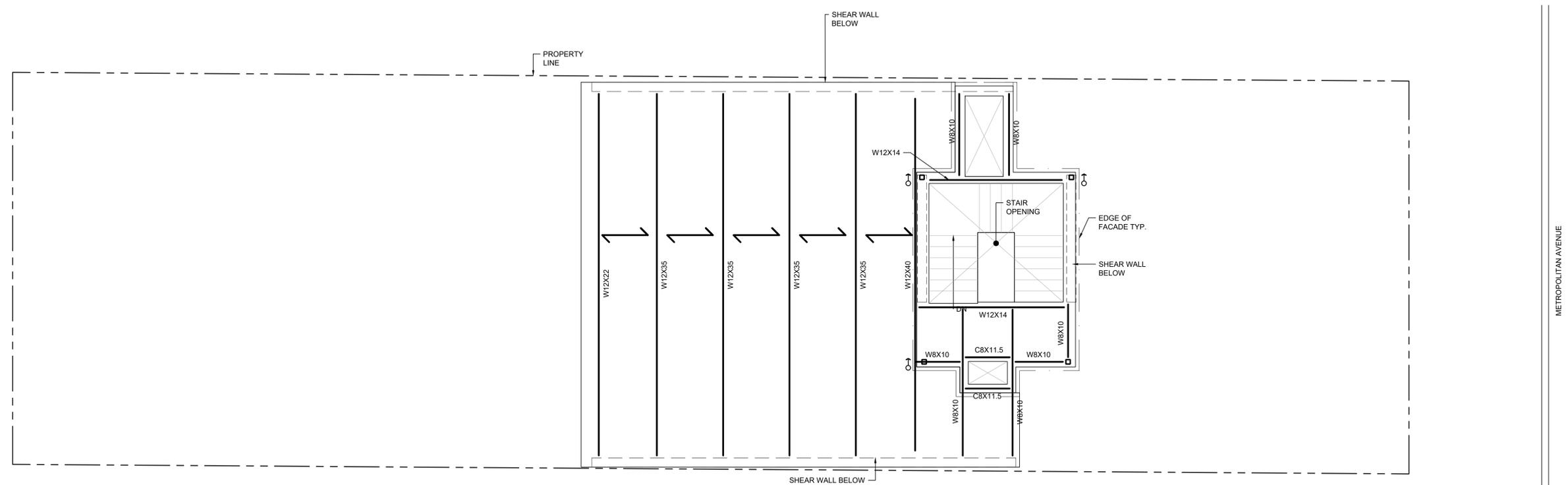
SEAL & SIGNATURE



DATE: 09-14-21
SCALE: AS NOTED
DRAWING BY: A.P.
CHECKED BY: G.J.C.
DWG NO: **S-104.00**
SHEET NO: 8 OF 13

BSCAN STICKER

DOB APPROVAL STAMP

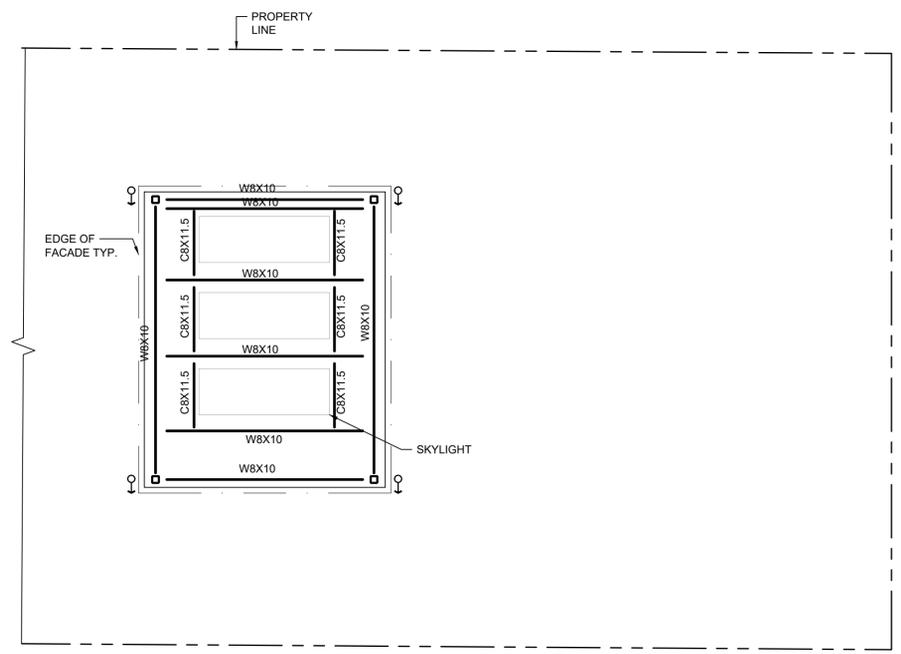
ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"



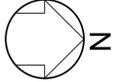
- NOTES:
- TOP OF SLAB ELEVATION IS U.O.N.
 - 4 1/2" THICKNESS STRUCTURAL SLAB SPAN PERPENDICULAR TO THE STEEL BEAMS. THE SLAB CONSISTS OF 3 1/2" CONCRETE AND 1 1/2" 22 GA. METAL DECK SLAB SHALL BE REINF. WITH W6x6-W4xW4 FROM TOP OF SLAB.
 - REFER TO S-200 SERIES FOR STEEL DETAILS.

- LEGEND:
- DENOTES 8" CMU BEARING WALL
 - DENOTES CMU SHEAR WALL
 - DENOTES SPAN DIRECTION OF METAL DECK
 - DENOTES STEEL BEAM
 - DENOTES MOMENT CONNECTION
 - DENOTES NEW HSS4X4X3/16 POST
 - DENOTES POST UP/DOWN RESPECTIVELY



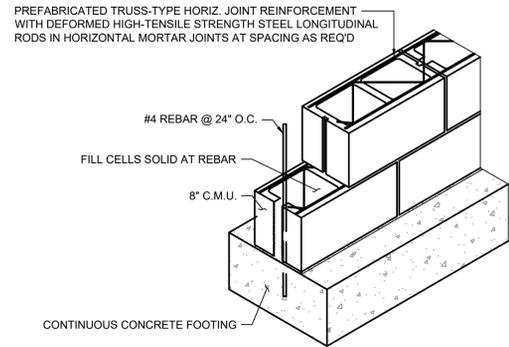
BULKHEAD FRAMING PLAN

SCALE: 1/4" = 1'-0"

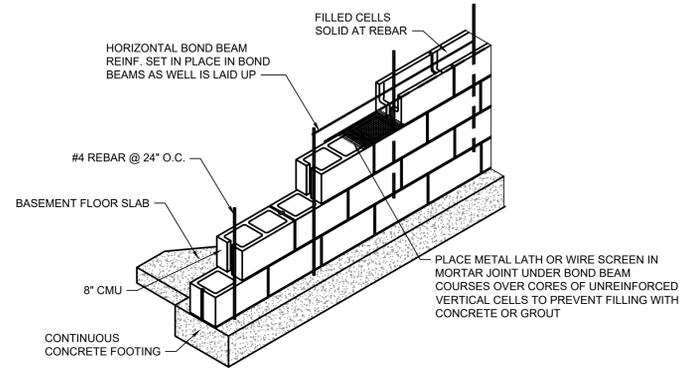


- NOTES:
- TOP OF SLAB ELEVATION IS U.O.N.
 - 4 1/2" THICKNESS STRUCTURAL SLAB SPAN PERPENDICULAR TO THE STEEL BEAMS. THE SLAB CONSISTS OF 3 1/2" CONCRETE AND 1 1/2" 22 GA. METAL DECK SLAB SHALL BE REINF. WITH W6x6-W4xW4 FROM TOP OF SLAB.
 - REFER TO S-200 SERIES FOR STEEL DETAILS.

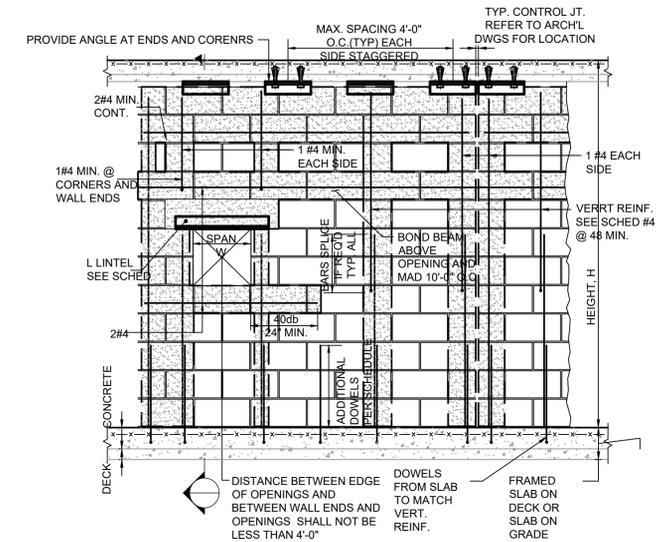
- LEGEND:
- DENOTES 8" CMU BEARING WALL
 - DENOTES CMU SHEAR WALL
 - DENOTES SPAN DIRECTION OF METAL DECK
 - DENOTES STEEL BEAM
 - DENOTES MOMENT CONNECTION
 - DENOTES NEW HSS4X4X3/16 POST
 - DENOTES POST UP/DOWN RESPECTIVELY



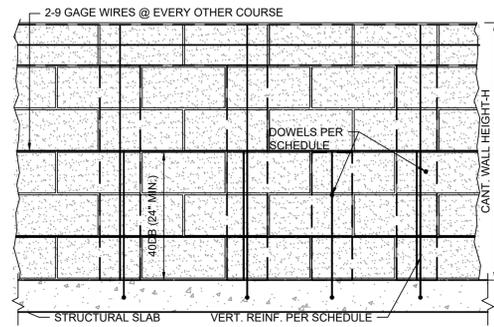
TYPICAL STEEL-REINFORCED MASONRY WALL
SCALE: 1" = 1'-0"



TYPICAL REINFORCED MASONRY WALL
SCALE: 1" = 1'-0"

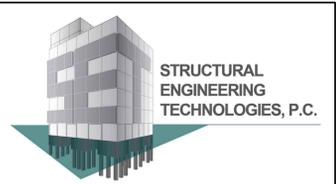


TYPICAL ELEVATION OF REINFORCED C.M.U. WALL
SCALE: 1/2" = 1'-0"



WALL HEIGHT	VERT. BARS	DOWELS	WIND
4' EXTERIOR	#4@64	#4@32	30

TYPICAL PARAPET WALL ELEVATION
SCALE: 3/4" = 1'-0"



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NO.	DATE	DESCRIPTION
6	04-06-22	PROGRESS SET
5	03-29-22	PROGRESS SET
4	03-24-22	PROGRESS SET
3	03-18-22	PROGRESS SET
2	02-07-22	PROGRESS SET
1	01-11-22	PROGRESS SET

REVISIONS:
PROJECT
920 METROPOLITAN AVENUE, BROOKLYN, NY-11211

DRAWING TITLE:
TYPICAL C.M.U. DETAILS

SEAL & SIGNATURE

DATE: 09-14-21
SCALE: AS NOTED
DRAWING BY: A.P.
CHECKED BY: G.J.C.
DWG NO: **S-302.00**
SHEET NO: 10 OF 13

BSCAN STICKER

DOB APPROVAL STAMP

NO.	DATE:	DESCRIPTION
6	04-06-22	PROGRESS SET
5	03-29-22	PROGRESS SET
4	03-24-22	PROGRESS SET
3	03-18-22	PROGRESS SET
2	02-07-22	PROGRESS SET
1	01-11-22	PROGRESS SET

REVISIONS:
PROJECT

**920 METROPOLITAN
AVENUE, BROOKLYN,
NY-11211**

DRAWING TITLE:
TYPICAL STEEL DETAILS

SEAL & SIGNATURE

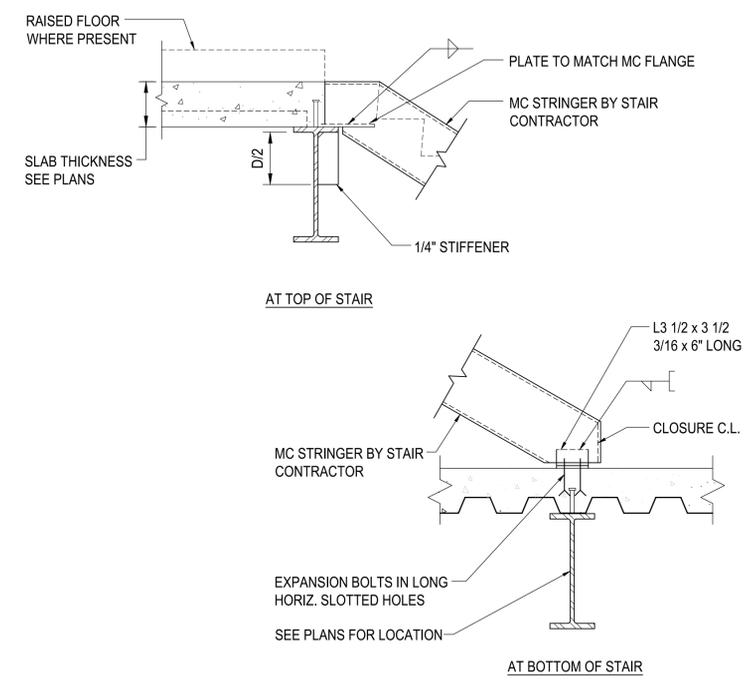
DATE: 09-14-21
SCALE: AS NOTED
DRAWING BY: A.P.
CHECKED BY: G.J.C.
DWG NO:
S-402.00

SHEET NO: 12 OF 13

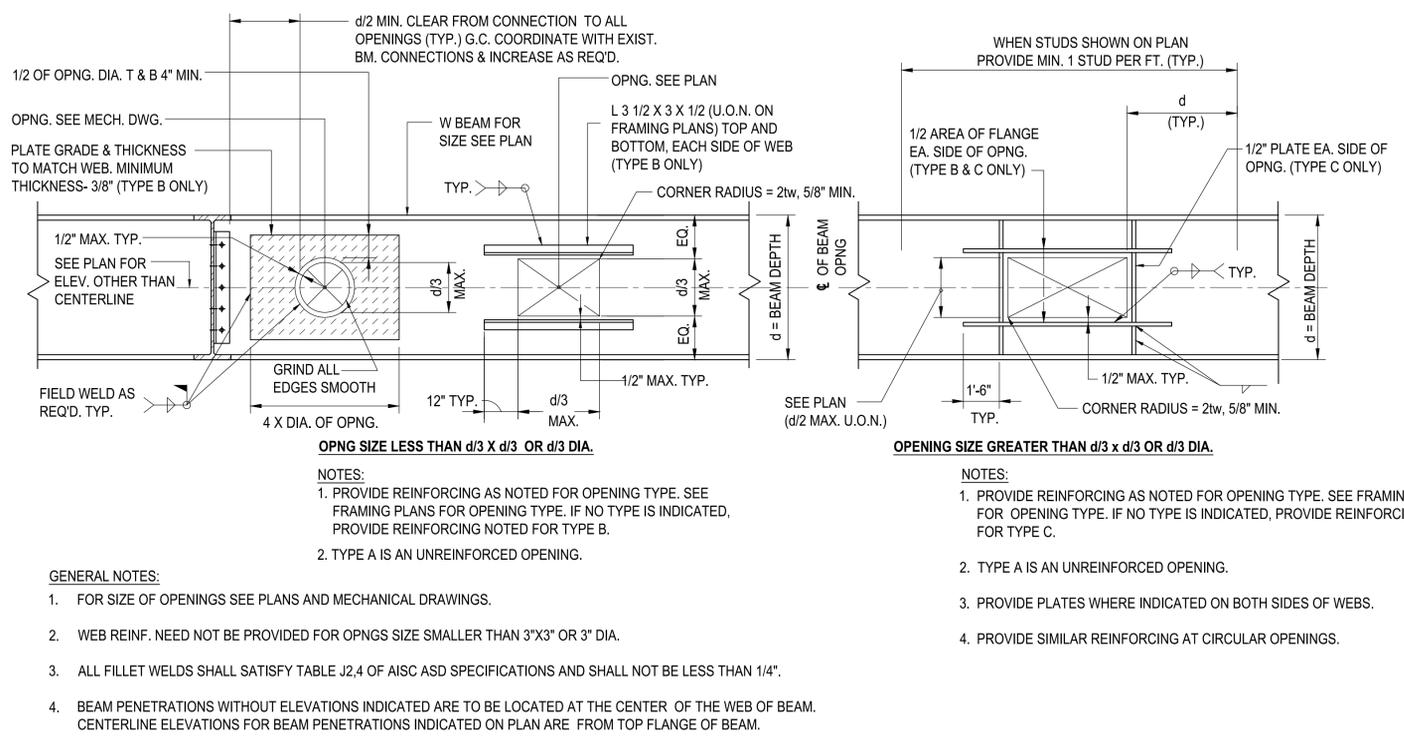
BSCAN STICKER

DOB APPROVAL STAMP


Cyr Apolinar Garcia
APPROVED
Date: 09/08/2022



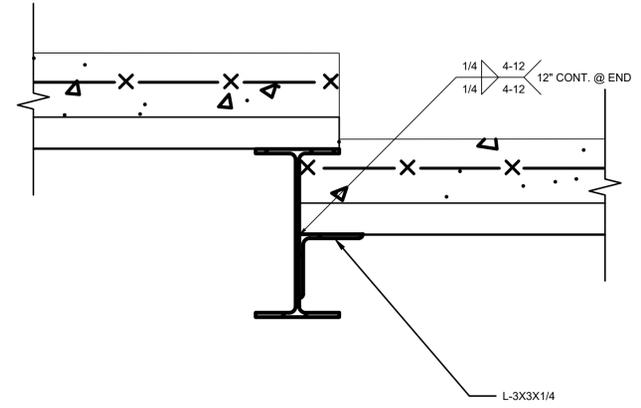
02 TYPICAL DETAIL AT METAL STAIR STRINGER
SCALE 3/4" = 1'-0"



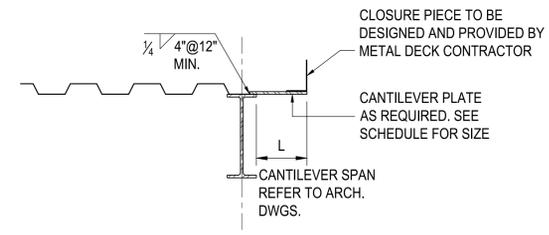
- OPNG SIZE LESS THAN d/3 X d/3 OR d/3 DIA.**
- NOTES:
1. PROVIDE REINFORCING AS NOTED FOR OPENING TYPE. SEE FRAMING PLANS FOR OPENING TYPE. IF NO TYPE IS INDICATED, PROVIDE REINFORCING NOTED FOR TYPE B.
2. TYPE A IS AN UNREINFORCED OPENING.
- OPNG SIZE GREATER THAN d/3 X d/3 OR d/3 DIA.**
- NOTES:
1. PROVIDE REINFORCING AS NOTED FOR OPENING TYPE. SEE FRAMING PLANS FOR OPENING TYPE. IF NO TYPE IS INDICATED, PROVIDE REINFORCING NOTED FOR TYPE C.
2. TYPE A IS AN UNREINFORCED OPENING.
3. PROVIDE PLATES WHERE INDICATED ON BOTH SIDES OF WEBS.
4. PROVIDE SIMILAR REINFORCING AT CIRCULAR OPENINGS.

- GENERAL NOTES:
1. FOR SIZE OF OPENINGS SEE PLANS AND MECHANICAL DRAWINGS.
2. WEB REIN. NEED NOT BE PROVIDED FOR OPNGS SIZE SMALLER THAN 3"x3" OR 3" DIA.
3. ALL FILLET WELDS SHALL SATISFY TABLE J2.4 OF AISC ASD SPECIFICATIONS AND SHALL NOT BE LESS THAN 1/4".
4. BEAM PENETRATIONS WITHOUT ELEVATIONS INDICATED ARE TO BE LOCATED AT THE CENTER OF THE WEB OF BEAM. CENTERLINE ELEVATIONS FOR BEAM PENETRATIONS INDICATED ON PLAN ARE FROM TOP FLANGE OF BEAM.

01 TYPICAL TYPICAL REINFORCING DETAIL OF OPENING IN WEB OF STEEL BEAM & GIRDER - TYPES A, B, C
SCALE 3/4" = 1'-0"



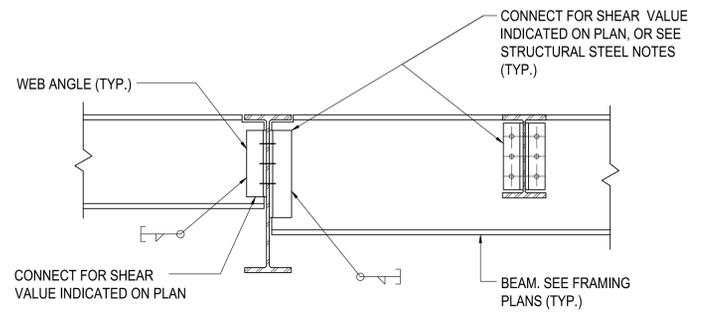
05 TYPICAL DETAIL OF STEP IN SLAB
SCALE 3" = 1'-0"



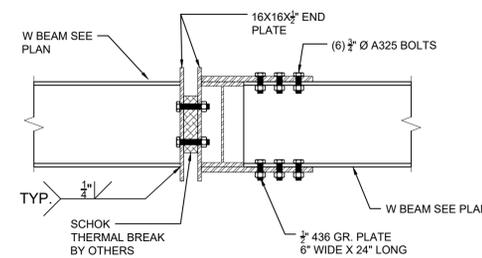
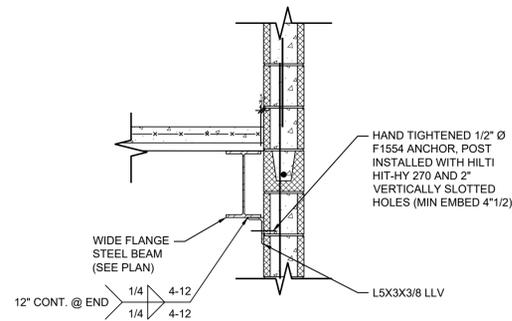
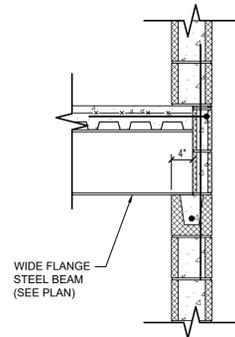
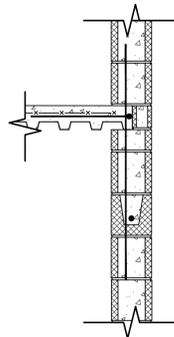
CANTILEVER SPAN L	THICKNESS OF BENT PLATE OR CLOSURE
≤ 2'-0"	3/8"
≤ 1'-4"	1/4"
≤ 1'-0"	10 GAGE
≤ 0'-10"	12 GAGE

- NOTES:
1. FOR VALUES OVER TABULATED VALUES, DECK MANUFACTURER TO PROVIDE DETAIL AND SUPPORTING CALCULATIONS FOR ENGINEER'S REVIEW.
2. SEE ADDITIONAL DETAILS AT CURTAINWALL SUPPORT LOCATIONS.

04 TYPICAL DETAIL OF EDGE OF METAL DECK ROOF
SCALE 3/4" = 1'-0"



03 TYPICAL BEAM TO BEAM SHEAR CONNECTION DETAIL
SCALE 3/4" = 1'-0"



1 SECTION 1
SCALE: 3/4" = 1' - 0"

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

3 SECTION 3
SCALE: 3/4" = 1' - 0"

3 SECTION 4
SCALE: 1" = 1' - 0"



CONSULTING STRUCTURAL, GEOTECHNICAL,
& ENVIRONMENTAL ENGINEERS

40-12 28TH STREET
LONG ISLAND CITY, NY 11101
T: (718) 706-7196 Email: info@set-ny.com

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FURNISHED BY S.E.T., P.C. ARE AND WILL REMAIN THEIR
PROPERTY. THEY ARE NOT TO BE USED ON THIS OR ANY
OTHER PROJECT UNLESS WRITTEN PERMISSION IS GIVEN.

OWNER:

DOB NOW BUILD JOB # :
#B00715872-S3

NOTE:
STRUCTURAL ENGINEERING TECHNOLOGIES, P.C. HAS
NOT BEEN RETAINED TO PERFORM CONTROLLED
INSPECTIONS OF ANY KIND FOR THIS PROJECT.
THE DESIGN PROFESSIONAL SHALL BE RELEASED FROM
ANY AND ALL LIABILITY IN THE COMMENCEMENT OF ANY
WORK PERFORMED WITHIN THESE DOCUMENTS PRIOR TO
OBTAINING ALL REQUIRED PERMITS FROM THE
RESPECTIVE JURISDICTIONAL AGENCIES

NO.	DATE	DESCRIPTION
6	04-06-22	PROGRESS SET
5	03-29-22	PROGRESS SET
4	03-24-22	PROGRESS SET
3	03-18-22	PROGRESS SET
2	02-07-22	PROGRESS SET
1	01-11-22	PROGRESS SET

REVISIONS:
PROJECT
**920 METROPOLITAN
AVENUE, BROOKLYN,
NY-11211**

DRAWING TITLE:
SECTIONS

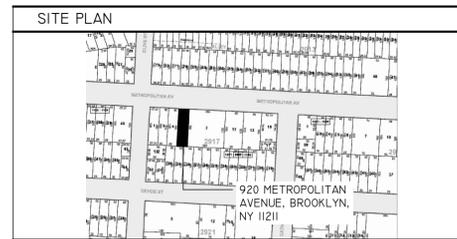
SEAL & SIGNATURE

DATE: 09-14-21
SCALE: AS NOTED
DRAWING BY: A.P.
CHECKED BY: G.J.C.
DWG NO: **S-501.00**
SHEET NO: 13 OF 13

BSCAN STICKER

DOB APPROVAL STAMP

Cyr Apolinar Garcia
APPROVED
Date: 09/08/2022



SITE PLAN LEGEND				

SITE PLAN INFORMATION AND LEGEND	
BUILDING INFORMATION	NOTES:
BLOCK: 2917 LOT: 6 ZONING DISTRICT: R6B & C2-4 ZONING MAP: 13B LOT AREA: 2,800 SF	I. ABBREVIATIONS: E - EXISTING P - PROPOSED EL - ELEVATION TC - TOP OF CURB BC - BOTTOM OF CURB LG - LEGAL GRADE

BASE PLAN CALCULATION

$(28.00' + 100.00') / 2 = 64.00'$

EXTENT OF PAVEMENT IMPROVEMENT OR RESTORATION CALCULATION:

METROPOLITAN AVENUE

$[66.00' - (13.00' + 13.00')] / 2$

$[66.00' - (26.00')] / 2$

$40.00' / 2 = 20.00' + 5.00' = 25.00'$

BUILDER'S PAVEMENT PLAN NOTES		
D.O.T. REFERENCE STANDARDS:		APPLIES (Y/N)
CONCRETE DROP CURB:	H-1015 R79	N
STEEL FACE CURB:	H-1010 R79	Y
ROADWAY:	H-1042	Y
CONCRETE CURB:	H-1044	Y
4" CONC. SIDEWALK:	H-1045 TYPE I	Y
7" SIDEWALK (DRIVEWAY):	H-1045 TYPE II	N
NEW TREE PIT:	H-1046	N
HISTORICAL CURB:	H-1056	N
PEDESTRIAN RAMP:	H-1011	N

HISTORIC CURB NOTE:

1. GRANITE CURB (SAMPLES OF WHICH BE FURNISHED TO THE CITY BY THE CONTRACTOR PRIOR TO INSTALLING GRANITE) IS TO BE MEDIUM GRAY IN COLOR AS APPROVED BY THE ENGINEER.

CONCRETE SIDEWALK NOTE:

1. CONCRETE SHOULD BE CONSTRUCTED OF 5'-0" x 5'-0" FLAGS. FLAG LINES SHOULD BE STRAIGHT, RUFF SURFACED, CRACKED, DEPRESSED, AND OTHER TYPES OF DEFECTED FLAGS, MUST BE CORRECTED TO CONFORM TO D.O.T. STANDARDS.

TRANSVERSE EXPANSION JOINTS NOTE:

1. TRANSVERSE EXPANSION JOINTS SHALL BE ONE-QUARTER INCH (1/4") IN WIDTH AND SHALL BE FILLED WITH PREFORMED JOINT FILLER TO WITHIN ONE INCH (1") OF THE SIDEWALK SURFACE. THE TOP ONE INCH (1") SHALL BE SEALED WITH POURED JOINT FILLER. (TYP.)

2. ROADWAY PAVING SURFACE TEXTURE TO BE SMOOTH, FREE OF SCARS, RUTS, CRACKS, DEPRESSIONS, RIDGES, HUMPS, AND SIMILAR DEFECTS. CONCRETE BASE TO BE FREE OF FRACTURES, EROSION, CRUMBLING, DIFFERENTIAL SETTLEMENTS, AND OTHER STRUCTURAL DEFECTS.

3. NEW 4" THICK CONCRETE SIDEWALK PER D.O.T. H. 1045 STD. (TYP.) AND CONCRETE MUST BE 3,200 PSI OR HIGHER PER N.Y.C. D.O.T. STANDARD SPEC. SECTION 3.05 TABLE I AND TABLE IV, SECTION 4.13.3 MATERIALS B (TYP.)

4. RE-PAVE ROADWAY FROM CURB LINE TO MIDDLE +5' OF ROADWAY OR AS DIRECTED BY B.P.P.

STREET TREE REQUIREMENTS	
TOTAL NO. OF TREES REQUIRED ON METROPOLITAN AVENUE:	1
EXISTING TREES TO PROTECT:	3
PROPOSED TREES TO REMOVE / RELOCATE:	0
PROPOSED TREES TO PLANT ON-SITE:	0
TREES TO PLANT OFF-SITE:	0
TREES TO PAY INTO THE TREE FUND:	1

NOTES:

1. EXACT LOCATIONS TO BE DETERMINED BY DEPARTMENT OF PARKS AND RECREATION.

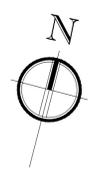
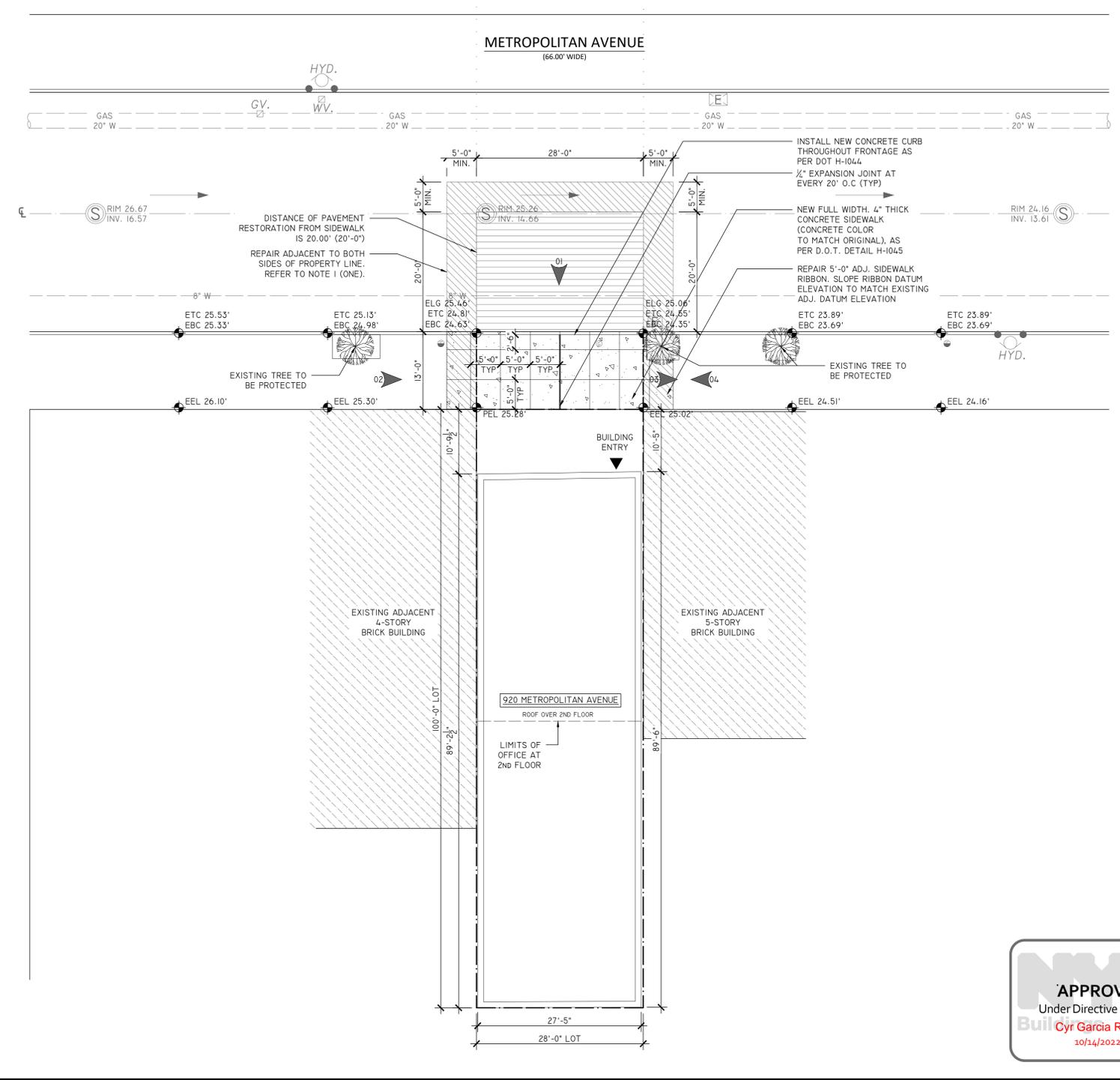
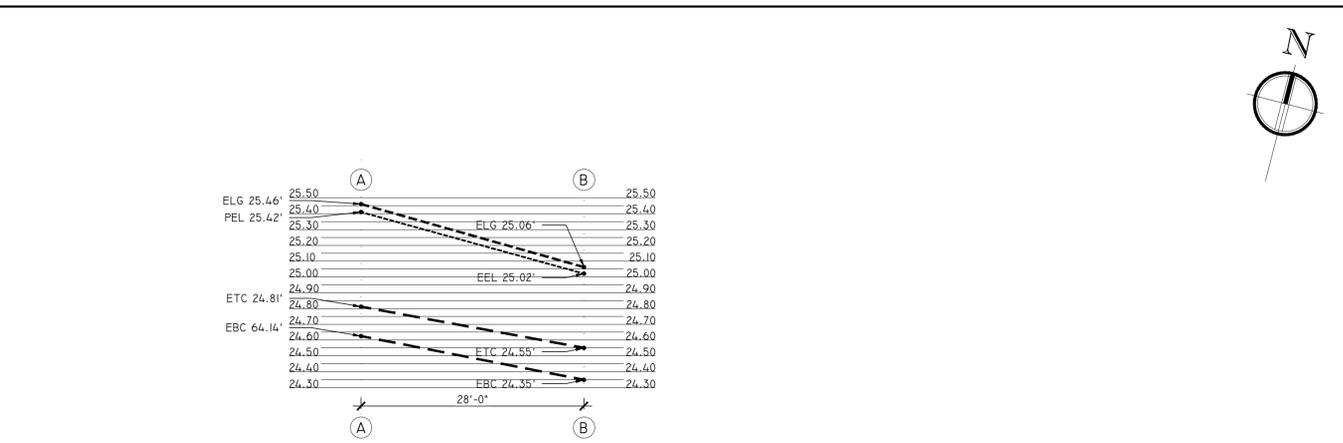
2. ALL PIT SIZES INDICATED ARE TO BE FULLY EXCAVATED TO THE DIMENSIONS LABELED AND REPLACED WITH NEW TOPSOIL TO NYC PARKS STANDARDS.

3. ** WILL CONTACT NYC PARKS IF ANY UNDERGROUND INFRASTRUCTURE (GAS/WATER/ ELECTRIC ETC.) AFFECTS ANY PROPOSED/EXISTING TREES ON SITE. WE ARE AWARE ANY WORK DONE ON OR NEAR A CITY TREE REQUIRES A PERMIT FROM NYC PARKS. THIS INCLUDES UTILITIES, SIDEWALKS, PRUNING OR ANY OTHER WORK THAT MAY IMPACT ANY TREE WITHIN THE DRIPLINE. DONE BY THE GENERAL CONTRACTOR OR ANY SUBCONTRACTORS, WILL FOLLOW NYC PARKS PLANTING SPECIFICATIONS AND FORWARD AMENDED PLAN **

METROPOLITAN AVENUE CROSS SLOPE COMPUTATIONS					
	EL	TC	DISTANCE	SLOPE	COMPLIANCE
A	P 25.42'	E 24.81'	28.00'	2.18%	OK
B	E 25.02'	E 24.55'	28.00'	1.68%	OK

METROPOLITAN AVENUE GUTTER SLOPE COMPUTATIONS					
	BC	BC	DISTANCE	SLOPE	COMPLIANCE
A	E 24.63'	E 24.35'	28.00'	1.00%	OK

LIST OF ESTIMATED QUANTITIES		
NEW CURB	28.00	LIN. FT.
NEW SIDEWALK	461.11	SQ. FT.
NEW ROADWALK	111.14	SQ. YDS.
NEW TREES	REFER TO TREE REQ.	EACH
NEW CB'S	0	EACH
NEW DIP	0	LIN. FT.
NEW MANHOLES	0	EACH



BOROUGH: BROOKLYN	BIN #: 3070360
DOB APP#: B00715872-11	JOB #: 340862971
NEW YORK CITY DEPARTMENT OF TRANSPORTATION BUILDERS PAVEMENT PLAN	
PROJECT DATA	
PROJECT STREET ADDRESS:	920 METROPOLITAN AVENUE, BROOKLYN, NY 11211
BLOCK: 2917	ZONING MAP #: 13B
LOT(S): 6	ZONING DISTRICT: R6B, C2-4
OWNER'S NAME:	OWNER'S CONTACT:
OWNER'S ADDRESS:	

- GENERAL REQUIREMENTS:**
- ALL DESIGNS, MATERIALS, CONSTRUCTION METHODS AND WORKMANSHIP SHALL COMPLY WITH THE FOLLOWING PUBLICATIONS OF THE BUREAU OF HIGHWAYS: STANDARD SPECIFICATIONS, STANDARD DETAILS OF CONSTRUCTION, RULES OF THE BUREAU OF HIGHWAY OPERATIONS, GUIDELINES FOR THE DESIGN OF INFRASTRUCTURE COMPONENTS.
 - ALL NON STANDARD MATERIALS AND CONSTRUCTION PROCEDURES SHALL BE SPECIFICALLY APPROVED IN WRITING BY THE DEPARTMENT OF TRANSPORTATION.
 - ANY WORK NOT COMPLYING WITH THE REQUIREMENTS OF THE DOT SHALL BE REMOVED AND REPLACED.
 - THIS PLAN SHALL BE VALID FOR THE ISSUANCE OF CONSTRUCTION PERMITS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF APPROVAL OR SELF CERTIFICATION, AS APPLICABLE.
 - ALL SIDEWALKS AND STREET AREAS CONSTRUCTED UNDER THIS PLAN SHALL REMAIN OPEN TO THE PUBLIC AT ALL TIMES.

- ISSUANCE OF THE PERMITS:**
- NO SIDEWALK, CURB OR ROADWAY WORK SHALL BE DONE WITHOUT A PERMIT FROM THE BOROUGH HIGHWAY SUPERINTENDENT. APPLICATION SHALL BE MADE THREE (3) DAYS BEFORE STARTING CONSTRUCTION. THE CONTRACTOR SHALL HAVE ALL REQUIRED INSURANCE COVERAGE ON FILE.
 - NO WORK ON DRAINAGE STRUCTURES SHALL BE DONE WITHOUT A PERMIT FROM THE BOROUGH OFFICE OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 - ANY VAULT WORK AT THE SITE SHALL BE DONE AS PER THE APPLICABLE RULES OF THE DOT AND THE DEPARTMENT OF BUILDINGS.

- CONSTRUCTION ACTIVITY:**
- A CONSTRUCTION PLAN SHOWING MAINTENANCE AND PROTECTION OF TRAFFIC, INCLUDING PLACEMENT OF SIDEWALK BRIDGES, BARRIERS AND SIGNAGE SHALL BE SUBMITTED TO THE BOROUGH HIGHWAY OFFICE BEFORE CONSTRUCTION BEGINS.
 - NO SIDEWALK SHALL BE CLOSED WITHOUT A PERMIT. PEDESTRIAN AND TRAFFIC SAFETY SHALL BE PROTECTED AT ALL TIMES. ROADWAY CLOSINGS SHALL BE AS DIRECTED.
 - THE SITE SHALL BE MAINTAINED IN A CLEAN AND SAFE CONDITION. FINAL SIGN-OFF
 - PERMITS SHALL BE PRESENTED FROM ALL PUBLIC AGENCIES AND UTILITIES HAVING OWNERSHIP OF STRUCTURES RELOCATED OR REMOVED DURING CONSTRUCTION.
 - ALL PAVEMENT MARKINGS INCLUDING THERMOPLASTIC LANE DIVIDERS, REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN KIND TO THE BUREAU OF TRAFFIC STANDARDS.
 - ALL EXISTING CATCH BASINS ON SITE SHALL BE CLEANED AND MADE OPERABLE.
 - ALL DAMAGE CAUSED BY CONSTRUCTION ON THIS PROJECT OUTSIDE THE PROJECT LIMITS SHALL BE REPAIRED AS DIRECTED.
 - THE ROADWAY SHALL BE PAVED TO THE REQUIREMENTS OF THE DOT AND AS DIRECTED.

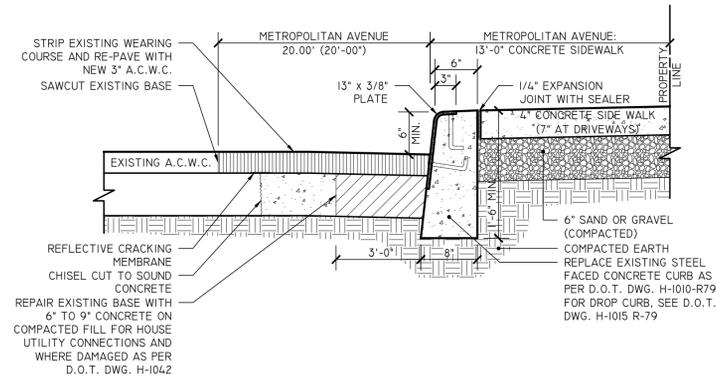
DOT APPROVAL	
PROPOSED AND EXISTING WORK SHOWN HERE REVIEWED FOR COMPLIANCE WITH ALL APPLICABLE RULES AND REQUIREMENTS BY:	
PLAN EXAMINER	
APPROVAL FOR ISSUANCE OF WORK PERMITS GRANTED BY:	DATE
CHIEF / BUILDERS PAVEMENT SECTION	DATE

THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, DEVIATIONS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALWAYS USE DIMENSIONS AS SHOWN. DRAWINGS ARE NOT TO BE SCALED.

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DATE:	7/28/2022
DRAWING No.:	BPP-100.00
01 OF #	

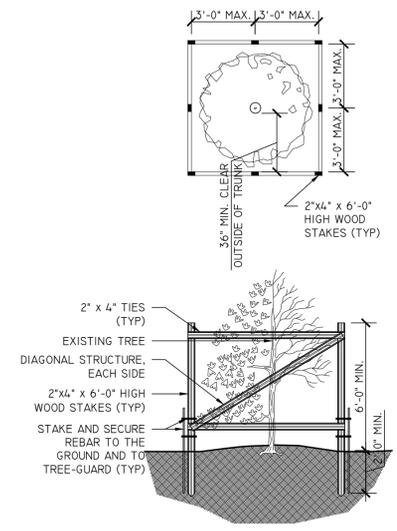


DETAILS



- NOTES:**
1. STRIP EXISTING ROADWAY.
 2. SAWCUT ALL EDGES OF ASPHALTIC CONC. WEARING COURSE.
 3. REPAIR OR REPLACE EXIST. CONC. BASE WITH A 6" TO 9" CONC. BASE.
 4. TACK COAT ALL EDGES AND SURFACES.
 5. RESURFACE WITH A 3" MIN. ASPHALTIC CONC. WEARING COURSE.
 6. TOPSOIL COMPACTING TO A MINIMUM OF 95% OF STANDARD PROCTOR TEST.
 7. ALL MATERIALS AND CONSTRUCTION METHODS USED ARE TO CONFORM TO SECTION 4.08 OF THE BUREAU OF HIGHWAY OPERATIONS SPECIFICATIONS, LATEST EDITION AS AMENDED.

1 ROADWAY PAVING DETAIL FOR OCEAN PARKWAY SERVICE ROAD
SCALE: 1" = 1'-0"



§27-1030 PROTECTION OF TREES
NO TREES OUTSIDE THE STREET LINE SHALL BE DISTURBED OR REMOVED WITHOUT THE PERMISSION OF THE COMMISSIONER OF PARKS AND RECREATION. PROTECTION MEETING THE REQUIREMENTS OF THE DEPARTMENT OF PARKS AND RECREATION SHALL BE PROVIDED AROUND THE TRUNKS OF ALL SUCH TREES, AND WRITTEN NOTIFICATION SHALL ALSO BE MADE TO THE DEPARTMENT OF PARKS AND RECREATION AT LEAST FORTY-EIGHT HOURS PRIOR TO COMMENCEMENT OF SUCH WORK. NO DELETERIOUS, CAUSTIC, OR ACID MATERIAL SHALL BE DUMPED OR MIXED WITHIN TEN FEET OF ANY SUCH TREE, NOR SHALL SALT FOR THE REMOVAL OF ICE OR SNOW BE APPLIED WHEN RUNOFF WILL DRAIN TO A TREE.

2 EXISTING TREE PROTECTION DETAILS
SCALE: 1/4" = 1'-0"

NOTES

NEW CURB:
AS PER DOT GUIDELINES SECTION VIII (D) MATERIAL
1. REQUIRED: STANDARD SPECIFICATION CONCRETE ONLY
2. PERMITTED ALTERNATIVE: AS PER DOT'S SPECIAL STREET PAVEMENT REQUIREMENTS. SEE APPENDIX J: DISTINCTIVE SIDEWALK
3. SLIP RESISTANCE OF ALL MATERIALS
A. MIN. FRICTION FACTOR (STATIC)
SURFACE LEVEL RAMP
.6
.8
4. TEST METHOD: AS REQUIRED UNDER DOT'S SPECIAL STREET PAVEMENT REQUIREMENTS.

NEW SIDEWALK:
AS PER DOT GUIDELINES SECTION IX (B) CURB TYPE
1. STEEL-FACED CONCRETE
A. REQUIRED USAGE: AREAS ZONED M. C. AND R-7 AND ABOVE, AND FOR ALL CORNERS, EXCEPT AS APPROVED BY THE COMMISSIONER.
B. PERMITTED COLOR: NATURAL (UNPIGMENTED) CONCRETE ONLY.

NEW ROADWAY:
AS PER DOT GUIDELINES SECTION X (D) REQUIRED MATERIALS
1. NEW ROAD:
COURSE MATERIAL MINIMUM THICKNESS
TOP ASPHALTIC CONCRETE WEARING COURSE 3"
BASE CONCRETE 6" - 9"
SUBBASE COMPACTED SELECTED MATERIAL N/A
*MATCH EXISTING THICKNESS OR AS REQUIRED BY TRAFFIC AND SOIL CONDITIONS

NOTE: FOR QUANTITIES REFER TO LIST OF ESTIMATED QUANTITIES ON SHEET BPP-100

BOROUGH:	BROOKLYN	BIN #:	3070360
DOB APP#:	B00715872-11	JOB #:	321559336

**NEW YORK CITY
DEPARTMENT OF TRANSPORTATION
BUILDERS PAVEMENT PLAN**

PROJECT DATA

PROJECT STREET ADDRESS:	920 METROPOLITAN AVENUE, BROOKLYN, NY 11211		
BLOCK:	2917	ZONING MAP #:	13B
LOT(S):	6	ZONING DISTRICT:	R6B, C2-4
OWNER'S NAME:	OWNER'S CONTACT:		
OWNER'S ADDRESS:			

- GENERAL REQUIREMENTS:**
1. ALL DESIGNS, MATERIALS, CONSTRUCTION METHODS AND WORKMANSHIP SHALL COMPLY WITH THE FOLLOWING PUBLICATIONS OF THE BUREAU OF HIGHWAYS: STANDARD SPECIFICATIONS, STANDARD DETAILS OF CONSTRUCTION, RULES OF THE BUREAU OF HIGHWAY OPERATIONS, GUIDELINES FOR THE DESIGN OF INFRASTRUCTURE COMPONENTS.
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 4. THIS PLAN SHALL BE VALID FOR THE ISSUANCE OF CONSTRUCTION PERMITS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF APPROVAL OR SELF CERTIFICATION, AS APPLICABLE.
 5. ALL SIDEWALKS AND STREET AREAS CONSTRUCTED UNDER THIS PLAN SHALL REMAIN OPEN TO THE PUBLIC AT ALL TIMES.

- ISSUANCE OF THE PERMITS:**
6. NO SIDEWALK, CURB OR ROADWAY WORK SHALL BE DONE WITHOUT A PERMIT FROM THE BOROUGH HIGHWAY SUPERINTENDENT. APPLICATION SHALL BE MADE THREE (3) DAYS BEFORE STARTING CONSTRUCTION. THE CONTRACTOR SHALL HAVE ALL REQUIRED INSURANCE COVERAGE ON FILE.
 7. NO WORK ON DRAINAGE STRUCTURES SHALL BE DONE WITHOUT A PERMIT FROM THE BOROUGH OFFICE OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 8. ANY VAULT WORK AT THE SITE SHALL BE DONE AS PER THE APPLICABLE RULES OF THE DOT AND THE DEPARTMENT OF BUILDINGS.

- CONSTRUCTION ACTIVITY:**
9. A CONSTRUCTION PLAN SHOWING MAINTENANCE AND PROTECTION OF TRAFFIC, INCLUDING PLACEMENT OF SIDEWALK BRIDGES, BARRIERS AND SIGNAGE SHALL BE SUBMITTED TO THE BOROUGH HIGHWAY OFFICE BEFORE CONSTRUCTION BEGINS.
 10. NO SIDEWALK SHALL BE CLOSED WITHOUT A PERMIT. PEDESTRIAN AND TRAFFIC SAFETY SHALL BE PROTECTED AT ALL TIMES. ROADWAY CLOSINGS SHALL BE AS DIRECTED.
 11. THE SITE SHALL BE MAINTAINED IN A CLEAN AND SAFE CONDITION. FINAL SIGN-OFF
 12. PERMITS SHALL BE PRESENTED FROM ALL PUBLIC AGENCIES AND UTILITIES HAVING OWNERSHIP OF STRUCTURES RELOCATED OR REMOVED DURING CONSTRUCTION.
 13. ALL PAVEMENT MARKINGS INCLUDING THERMOPLASTIC LANE DIVIDERS, REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN KIND TO THE BUREAU OF TRAFFIC STANDARDS.
 14. ALL EXISTING CATCH BASINS ON SITE SHALL BE CLEANED AND MADE OPERABLE.
 15. ALL DAMAGE CAUSED BY CONSTRUCTION ON THIS PROJECT OUTSIDE THE PROJECT LIMITS SHALL BE REPAIRED AS DIRECTED.
 16. THE ROADWAY SHALL BE PAVED TO THE REQUIREMENTS OF THE DOT AND AS DIRECTED.

DOT APPROVAL

PROPOSED AND EXISTING WORK SHOWN HERE REVIEWED FOR COMPLIANCE WITH ALL APPLICABLE RULES AND REQUIREMENTS BY :

PLAN EXAMINER

APPROVAL FOR ISSUANCE OF WORK PERMITS GRANTED BY :

CHIEF / BUILDERS PAVEMENT SECTION

DATE

THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, DEVIATIONS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALWAYS USE DIMENSIONS AS SHOWN. DRAWINGS ARE NOT TO BE SCALED.


 PROJECT No.: _____
 DATE: 7/28/2022
 DRAWING No.: **BPP-101.00**
 02 OF #



BUILDING DEPARTMENT NOTES

- ENERGY UTILIZATION. HEATING, VENTILATING AND AIR-CONDITIONING SYSTEMS OF ALL STRUCTURES SHALL BE DESIGNED AND INSTALLED FOR EFFICIENT UTILIZATION OF ENERGY IN ACCORDANCE WITH ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK CITY.
- VIBRATION ISOLATION. SUPPLEMENTAL RESTRAINT SHALL BE USED WHERE VIBRATION ISOLATION OF EQUIPMENT AND APPLIANCES IS EMPLOYED (TO ACCOMPLISH THE SUPPORT AND RESTRAINT).
- REPAIR. DEFECTIVE PARTS OR MATERIALS SHALL BE REPLACED OR REPAIRED IN SUCH A MANNER SO AS TO PRESERVE THE ORIGINAL APPROVAL OR LISTING.
- WIND RESISTANCE. MECHANICAL EQUIPMENT, APPLIANCES AND SUPPORTS THAT ARE EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH 2014 NEW YORK CITY BUILDING CODE.
- FLOOD HAZARD. FOR STRUCTURES LOCATED IN AREAS OF SPECIAL FLOOD HAZARD, MECHANICAL SYSTEMS, EQUIPMENT AND APPLIANCES SHALL COMPLY WITH APPENDIX G OF 2014 NEW YORK CITY BUILDING CODE.
- SEISMIC RESISTANCE. IN ACCORDANCE WITH 2014 NEW YORK CITY BUILDING CODE, EVERY STRUCTURE, AND PORTION THEREOF, INCLUDING NONSTRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS, SHALL BE DESIGNED AND INSTALLED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS.
- STRUCTURAL SAFETY. THE BUILDING OR STRUCTURE SHALL NOT BE WEAKENED BY INSTALLATION OR REPAIRING OF MECHANICAL SYSTEMS. WHERE FLOORS, WALLS, CEILINGS OR ANY OTHER PORTION OF THE BUILDING OR STRUCTURE IS REQUIRED TO BE ALTERED OR REPLACED IN THE PROCESS OF INSTALLATION OR REPAIR OF MECHANICAL SYSTEMS, THE BUILDING OR STRUCTURE SHALL BE LEFT IN A CONDITION THAT COMPLY WITH 2014 NEW YORK CITY BUILDING CODE REQUIREMENTS.
- RIGID DUCT PENETRATIONS. DUCT SYSTEM PENETRATIONS OF WALLS, FLOORS, CEILINGS AND ROOFS AND AIR TRANSFER OPENINGS IN SUCH BUILDING COMPONENTS SHALL BE PROTECTED AS REQUIRED BY SECTION 607 OF 2014 NEW YORK CITY MECHANICAL CODE.
- VENTILATION REQUIRED. EVERY OCCUPIED SPACE SHALL BE VENTILATED BY NATURAL MEANS IN ACCORDANCE WITH SECTION 402 OR BY MECHANICAL MEANS IN ACCORDANCE WITH SECTION 403 OF 2014 NEW YORK CITY MECHANICAL CODE.
- OUTDOOR DISCHARGE.
 - THE AIR REMOVED BY EVERY MECHANICAL EXHAUST SYSTEM SHALL BE DISCHARGED OUTDOORS AT A POINT WHERE IT WILL NOT CAUSE A NUISANCE AND FROM WHICH IT CANNOT BE SECONDARILY DRAWN INTO A VENTILATING SYSTEM. AIR SHALL NOT BE EXHAUSTED INTO AN ATTIC OR CRAWL SPACE.
 - DUCT SYSTEM USED FOR THE MOVEMENT OF AIR IN HEATING, VENTILATING AND EXHAUST SYSTEMS SHALL CONFORM TO THE PROVISIONS OF CHAPTER 6 OF 2014 NEW YORK CITY MECHANICAL CODE.
 - DUCT INSULATION SHALL CONFORM TO THE REQUIREMENT OF SECTIONS 604.2 THROUGH 604.13 OF 2014 NEW YORK CITY MECHANICAL CODE AND ENERGY CONSERVATION CODE OF NEW YORK CITY.
 - CENTRAL HEATING SYSTEM SHALL BE PROVIDED WITH APPROVED AIR FILTERS. THE FILTERS SHALL BE INSTALLED IN THE RETURN AIR SYSTEM, UPSTREAM FROM ANY HEAT EXCHANGER OR COIL, IN AN APPROVED CONVENIENT LOCATION. LIQUID ADHESIVE COATINGS USED ON FILTERS SHALL HAVE A FLASH POINT NOT LOWER THAN 325° F (163° C).
 - FUEL-GAS PIPING SYSTEMS, FUEL-GAS UTILIZATION EQUIPMENT AND RELATED ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH SECTIONS 101.2.2 THROUGH 101.2.5 OF 2014 NEW YORK CITY FUEL GAS CODE.
- PIPING SYSTEMS. THESE REGULATIONS COVER PIPING SYSTEMS FOR NATURAL GAS WITH AN OPERATING PRESSURE OF 125 PSIG (862 kPa GAUGE) OR LESS. COVERAGE SHALL EXTEND TO THE OUTLET OF THE EQUIPMENT SHUTOFF VALVES. PIPING SYSTEMS REQUIREMENTS SHALL INCLUDE DESIGN, MATERIALS, COMPONENTS, FABRICATION, ASSEMBLY, INSTALLATION, TESTING, INSPECTION, OPERATION AND MAINTENANCE.
- ENERGY UTILIZATION. HEATING AND VENTILATING SYSTEMS OF ALL STRUCTURES SHALL BE DESIGNED AND INSTALLED FOR EFFICIENT UTILIZATION OF ENERGY IN ACCORDANCE WITH ENERGY CONSERVATION CODE OF NEW YORK CITY. HYDRONIC PIPING, VENTILATION AND OTHER MECHANICAL SYSTEMS NOT COVERED BY THIS CODE SHALL COMPLY TO 2014 NEW YORK CITY MECHANICAL CODE.

- ACCORDING TO SECTION 603.1 OF 2014 NEW YORK CITY MECHANICAL CODE, AN AIR DISTRIBUTION SYSTEM SHALL BE DESIGNED AND INSTALLED TO SUPPLY THE REQUIRED DISTRIBUTION OF AIR. THE INSTALLATION OF AN AIR DISTRIBUTION SYSTEM SHALL NOT AFFECT THE FIRE PROTECTION REQUIREMENTS SPECIFIED IN THE NEW YORK CITY BUILDING CODE. DUCTS SHALL BE CONSTRUCTED, BRACED, REINFORCED AND INSTALLED TO PROVIDE STRUCTURAL STRENGTH AND DURABILITY.
- ACCORDING TO SECTION 603.10 OF 2014 NEW YORK CITY MECHANICAL CODE, DUCTS SHALL BE SUPPORTED WITH APPROVED HANGERS AT INTERVALS NOT EXCEEDING 10 FT (3048 MM) OR BY OTHER APPROVED DUCT SUPPORT SYSTEMS DESIGNED IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE. FLEXIBLE AND OTHER FACTORY-MADE DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. DUCTS SHALL NOT BE HUNG FROM OR SUPPORTED BY SUSPENDED CEILING.
- WHERE DUCT CROSS-SECTIONAL AREA EXCEEDS 8 FT² ANGLE STIFFENERS SHALL BE INSTALLED AROUND CIRCUMFERENCE AT EVERY 4'-0".
- FOR DUCTS OVER 48" WIDE, HANGERS SHALL TURN UNDER DUCT AT LEAST 2" AND SHALL BE FASTENED TO THE BOTTOM AS WELL AS TO THE SIDES OF DUCT.
- DUCT HANGERS:
 - FOR DUCTS WITH A CROSS-SECTIONAL AREA OF 4 FT² OR LESS, HANGERS SHALL BE NOT MORE THAN 8 FT APART.
 - FOR DUCT WITH A CROSS-SECTIONAL AREA OF MORE THAN 4 FT² BUT NOT OVER 8 FT² HANGERS SHALL BE NOT MORE THAN 6 FT. APART, AND
 - FOR DUCTS WITH A CROSS-SECTIONAL AREA OF MORE THAN 8 FT² HANGERS SHALL BE NOT MORE THAN 4 FT APART.
 - THE DISTANCES BETWEEN HANGERS SHALL BE MEASURED LINEARLY ALONG THE DUCT.
- VERTICAL DUCTS SHALL BE SECURELY SUPPORTED AT EACH FLOOR LEVEL BY CONTINUOUS LENGTHS OF STRUCTURAL ANGLES OF A SIZE AT LEAST EQUIVALENT TO THAT FOR STIFFENING. THE ANGLES SHALL BE FASTENED TO THE OPPOSITE SIDES OF THE DUCT AND SHALL EXTEND AROUND THE OPENING AND BEAR UPON THE STRUCTURE OR SLAB ON BOTH SIDES OF THE OPENING.
- SUPPLY AND RETURN DUCTS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND WHERE LOCATED OUTSIDE THE BUILDING WITH A MINIMUM OF R-8 INSULATION.
- ALL SUPPLY DUCTWORK SHALL BE SEALED AIRTIGHT WITH MINNESOTA MINING CO.: TYPE 800 SEALED COMPOUND.

NOTES

- ACCORDING TO SECTION 603.1 OF 2014 NEW YORK CITY MECHANICAL CODE, AN AIR DISTRIBUTION SYSTEM SHALL BE DESIGNED AND INSTALLED TO SUPPLY THE REQUIRED DISTRIBUTION OF AIR. THE INSTALLATION OF AN AIR DISTRIBUTION SYSTEM SHALL NOT AFFECT THE FIRE PROTECTION REQUIREMENTS SPECIFIED IN THE NEW YORK CITY BUILDING CODE. DUCTS SHALL BE CONSTRUCTED, BRACED, REINFORCED AND INSTALLED TO PROVIDE STRUCTURAL STRENGTH AND DURABILITY.
- ACCORDING TO SECTION 603.10 OF 2014 NEW YORK CITY MECHANICAL CODE, DUCTS SHALL BE SUPPORTED WITH APPROVED HANGERS AT INTERVALS NOT EXCEEDING 10 FT (3048 MM) OR BY OTHER APPROVED DUCT SUPPORT SYSTEMS DESIGNED IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE. FLEXIBLE AND OTHER FACTORY-MADE DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. DUCTS SHALL NOT BE HUNG FROM OR SUPPORTED BY SUSPENDED CEILING.
- WHERE DUCT CROSS-SECTIONAL AREA EXCEEDS 8 FT² ANGLE STIFFENERS SHALL BE INSTALLED AROUND CIRCUMFERENCE AT EVERY 4'-0".
- FOR DUCTS OVER 48" WIDE, HANGERS SHALL TURN UNDER DUCT AT LEAST 2" AND SHALL BE FASTENED TO THE BOTTOM AS WELL AS TO THE SIDES OF DUCT.
- DUCT HANGERS:
 - FOR DUCTS WITH A CROSS-SECTIONAL AREA OF 4 FT² OR LESS, HANGERS SHALL BE NOT MORE THAN 8 FT APART.
 - FOR DUCT WITH A CROSS-SECTIONAL AREA OF MORE THAN 4 FT² BUT NOT OVER 8 FT² HANGERS SHALL BE NOT MORE THAN 6 FT. APART, AND
 - FOR DUCTS WITH A CROSS-SECTIONAL AREA OF MORE THAN 8 FT² HANGERS SHALL BE NOT MORE THAN 4 FT APART.
 - THE DISTANCES BETWEEN HANGERS SHALL BE MEASURED LINEARLY ALONG THE DUCT.
- VERTICAL DUCTS SHALL BE SECURELY SUPPORTED AT EACH FLOOR LEVEL BY CONTINUOUS LENGTHS OF STRUCTURAL ANGLES OF A SIZE AT LEAST EQUIVALENT TO THAT FOR STIFFENING. THE ANGLES SHALL BE FASTENED TO THE OPPOSITE SIDES OF THE DUCT AND SHALL EXTEND AROUND THE OPENING AND BEAR UPON THE STRUCTURE OR SLAB ON BOTH SIDES OF THE OPENING.
- SUPPLY AND RETURN DUCTS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND WHERE LOCATED OUTSIDE THE BUILDING WITH A MINIMUM OF R-8 INSULATION.
- ALL SUPPLY DUCTWORK SHALL BE SEALED AIRTIGHT WITH MINNESOTA MINING CO.: TYPE 800 SEALED COMPOUND.

HVAC SYSTEM SPECIFICATION

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL CODES & ORDINANCES. CONTRACTOR SHALL FOLLOW THE LATEST EDITION OF STANDARDS OF ASHRAE AND SMACNA DURING THE INSTALLATION OF THE SYSTEM.
- THE WORK UNDER THIS CONTRACT SHALL BE PERFORMED SIMULTANEOUSLY WITH THE WORK OF OTHER TRADES, SO AS NOT TO DELAY THE OVERALL PROGRESS OF WORK.
- THIS CONTRACTOR SHALL CHECK FIELD CONDITIONS PRIOR TO SUBMITTING A PROPOSAL. ANY CHANGES RESULTING FROM CONDITIONS ARISING IN THE FIELD SHALL BE MADE BY THIS CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.
- THE WORK INDICATED ON THESE DRAWINGS IS DIAGRAMMATIC AND IS INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE GENERAL ARRANGEMENT OF DUCTWORK, PIPING AND EQUIPMENT. THE CONTRACTOR MAY MAKE CHANGES IN WRITING, SUBJECT TO THE OWNER'S APPROVAL WITH NO ADDITIONAL COST TO THE CONTRACT.
- ALL MATERIALS, WORK, INCIDENTAL ACCESSORIES OR OTHER DETAILS NOT SHOWN AND/OR NOT SPECIFIED BUT NECESSARY TO MAKE THE WORK COMPLETE AND READY FOR OPERATION SHALL BE PROVIDED BY THIS CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- IT IS THE INTENTION OF THE CONTRACT DRAWINGS AND SPECIFICATIONS TO CALL FOR FINISHED ALL MATERIALS SHALL BE NEW AND COMPLY WITH WORK, TESTED AND READY FOR OPERATION. THE REQUIREMENTS OF 2014 DEPARTMENT OF BUILDINGS, 2014 NEW YORK CITY MECHANICAL CODE AND ALL AGENCIES HAVING JURISDICTION.
- IF ANY EXISTING DUCTWORK, PIPES, UTILITIES, ECT. ARE DAMAGED DURING THE INSTALLATION, WHETHER OR NOT DUE TO CONTRACTOR'S NEGLIGENCE, IT SHALL BE REPAIRED OR REPLACED AND LEFT IN CONDITION SATISFACTORY TO THE OWNER.
- ALL SUPPLY AND RETURN DUCTWORK WITHIN 15 FEET OF AIR HANDLING UNIT SHALL HAVE 1" THICK ACOUSTIC LINING.
- ALL DUCTWORK PENETRATING FIRE RATED WALLS SHALL HAVE APPROVED FIRE DAMPERS AND ACCESS DOORS.
- THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL DUCTWORK AND EQUIPMENT TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- THIS CONTRACTOR SHALL MAKE ANY AND ALL TESTS REQUIRED TO DEMONSTRATE THAT THE OPERATION OF THE INSTALLED SYSTEM COMPLIES WITH ALL CODE'S APPLICABLE REQUIREMENTS OF THE DRAWINGS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS.
- SUPPLY AND RETURN AIR DUCTS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND A MINIMUM OF R-8 INSULATION WHEN LOCATED OUTSIDE THE BUILDING. PIPING INSULATION SHALL BE INSTALLED PER 6.4.4.1.3 ASHRAE 90.1-2013.
- ALL INSULATION AND ACCESSORIES SHALL BE INSTALLED AS RECOMMENDED BY MANUFACTURER.

VENTILATION NOTES:

- UPON COMPLETION OF THE VENTILATING SYSTEM, A TEST SHALL BE CONDUCTED IN THE PRESENCE AND UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT QUALIFIED TO CONDUCT SUCH TEST, OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF VENTILATING SYSTEMS AND QUALIFIED TO CONDUCT SUCH TESTS. THE TEST SHALL SHOW COMPLIANCE WITH 2014 NEW YORK CITY MECHANICAL CODE REQUIREMENTS FOR VENTILATION AND THE PROPER FUNCTIONING OF ALL OPERATING DEVICES BEFORE THE SYSTEM IS APPROVED.
- THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT OR OTHER QUALIFIED PERSON WHO CONDUCTS THE TEST SHALL FILE A CERTIFICATE AS TO WHETHER THE TEST SHOWS THAT THE RATE OF AIR SUPPLY AND EXHAUST COMPLIES WITH REQUIREMENTS OF THE CODE PERTAINING TO VENTILATION.
- A STATEMENT SHALL BE FILED BY THE OWNER THAT THE SYSTEM OF VENTILATION WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE AS PROVIDED IN SECTION MC 401 OF 2014 NEW YORK CITY MECHANICAL CODE.
- VENTILATION SYSTEM INSTALLED COMPLIES WITH THE MINIMUM CODE REQUIREMENTS AS PER 27-753 & 27-754.
- ALL TOILET ROOMS TO BE VENTILATED IN ACCORDANCE WITH SECTION 27-759.

OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER BY THE MECHANICAL CONTRACTOR AND INCLUDE ALL OF THE FOLLOWING:

- SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
- MANUFACTURER'S OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- NAME AND ADDRESS OF AT LEAST ONE SERVICE AGENCY.
- HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS, DESIRED OR FIELD-DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR, FOR DIGITAL CONTROL SYSTEMS, IN SYSTEM PROGRAMMING INSTRUCTIONS.
- A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.

NOTE:

MINIMUM VENTILATION RATES TO COMPLY WITH TABLE 403.3 OF THE NYC MECHANICAL CODE. DOMESTIC KITCHEN EXHAUST SHALL COMPLY SECTION 505 OF THE NYC MECHANICAL CODE. BATHROOM VENTILATION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1203.4.2.1 OF THE NYC BUILDING CODE.

NOTES:

MECHANICAL EQUIPMENT AND BUILDING SYSTEMS SHALL BE CONSTRUCTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH 2014 NEW YORK CITY MECHANICAL CODE AND 2014 NEW YORK CITY FUEL GAS CODE.

THE ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, DEVIATIONS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSON PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH FABRICATION.

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES

NO CHANGE IN USE, EGRESS OR OCCUPANCY UNDER THIS APPLICATION.

920 METROPOLITAN AVE, BROOKLYN, NY 11211
ENERGY ANALYSIS, COMMERCIAL, CLIMATE ZONE 4A

ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE-PREScribed VALUE AND CITATION	PLANS REFERENCE #
INSTALL NEW SPLIT SYSTEM CONDENSING UNIT HEAT PUMP MITSUBISHI ELECTRIC, 2.5T	17.0 SEER 10.4 HSPF	13.0 SEER, 7.7 HSPF NYC ECC 2020 TABLE C403.3.2(11)	MS-008.00
INSTALL NEW SPLIT SYSTEM CONDENSING UNIT HEAT PUMP MITSUBISHI ELECTRIC, 4T	16.5 SEER 11.0 HSPF	13.0 SEER, 7.7 HSPF NYC ECC 2020 TABLE C403.3.2(11)	MS-008.00
INSTALL NEW SPLIT SYSTEM CONDENSING UNIT HEAT PUMP MITSUBISHI ELECTRIC, 3T	17.5 EER 10.4 HSPF	13.0 SEER, 7.7 HSPF NYC ECC 2020 TABLE C403.3.2(11)	MS-008.00

DRAWINGS LIST

DRAWING NO.	DRAWING TITLE
MS-001.00	PLOT PLAN, NOTES, LEGEND
MS-002.00	SEQUENCE OF OPERATION
MS-003.00	CELLAR AND 1ST FLOOR PLANS
MS-004.00	2ND AND 3RD FLOOR PLANS
MS-005.00	4TH, ROOF AND BULKHEAD ROOF PLANS
MS-006.00	SCHEDULES, RISER DIAGRAM
MS-007.00	DETAILS
MS-008.00	PART OF SANITARY RISER DIAGRAM WITH CONDENSATE DISCHARGEENERGY ANALYSIS
EN-001.00	ENERGY ANALYSIS

OUTDOOR AIR SUPPLY AND EXHAUST OPENINGS IN THE BUILDING ENVELOPE, DUCTS, OR EQUIPMENT SHALL BE PROVIDED WITH CLASS 1 MOTORIZED DAMPERS.

PROFESSIONAL STATEMENT:
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH 2020 NYC ECC

NYC ECC TABLE C403.11.3
MINIMUM PIPE INSULATION THICKNESS (THICKNESS IN INCHES)

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (INCHES)				
	CONDUCTIVITY BTU-IN/(H·FT²·°F)	MEAN RATING TEMPERATURE, °F	< 1	1 to < 1½	1½ to < 4	4 to < 8	> 8
105 -140	0.21 -0.28	100	1.0	1.0	1.5	1.5	1.5
40 -60	0.21 -0.27	75	0.5	0.5	1.0	1.0	1.0
< 40	0.20 -0.26	50	0.5	1.0	1.0	1.0	1.5

HEATING AND COOLING LOADS

LOAD TYPE	TOTAL CAPACITY
HEATING	289,600 BTU/Hr.
COOLING	272,400 BTU/Hr.
EL. HEATING	20,400 BTU/Hr.
EL. HWH	122,840 BTU/Hr.
TOTAL HEATING	432,840 BTU/Hr.

SCOPE OF WORK
INSTALLATION OF MECHANICAL SYSTEM FOR ENTIRE BUILDING IN CONJUNCTION WITH NB APPLICATION #-----
INCLUDING:
1. INSTALLATION OF CONDENSER UNITS AND AIR HANDLERS
2. DUCT INSTALLATION
3. REFRIGERANT PIPING INSTALLATION

SPECIAL INSPECTION

MECHANICAL SYSTEMS	BC 1704.16
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THIS PROJECT DOES NOT REQUIRE COMMISSIONING AS PER C408 OF 2020 NYC ECC

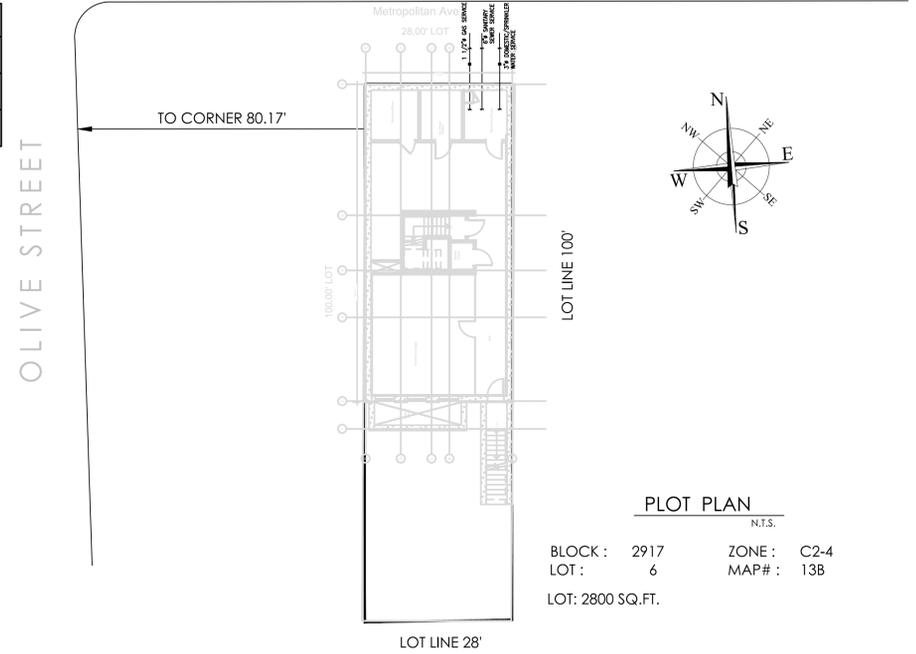
HEATING AND COOLING LOAD CALCULATIONS FOR DERIVING CORRECT EQUIPMENT SIZE ARE PERFORMED IN ACCORDANCE WITH ANSI/ASHRAE/ACCA STANDARD 183 HVAC SYSTEMS AND EQUIPMENT HANDBOOK.

THE INTERIOR DESIGN TEMPERATURES USED FOR HEATING AND COOLING LOAD CALCULATIONS SHALL BE A MAXIMUM OF 72°F (22°C) FOR HEATING AND MINIMUM OF 75°F (24°C) FOR COOLING.

LEGEND

	DUCTWORK
	FIRE DAMPER WITH ACCESS DOOR
	MOTORIZED DAMPER (CLASS 1)
	VOLUME DAMPER
	EXHAUST GRILL
	SUPPLY DIFFUSER
	7 DAY PROGRAMMABLE THERMOSTAT
	ELECTRIC HEATER
	SUPPLY AIR
	RETURN AIR
	REFRIGERANT PIPING
	TRANSFER GRILL
	GRAVITY DAMPER

METROPOLITAN AVENUE



DUCTWORK
A. ALL DUCTWORK SHALL BE MADE OUT OF GALVANIZED STEEL WITH GAUGES CONFORMING TO THE LATEST ASHRAE GUIDE. INSTALL HORIZONTAL DUCTS WITH GALVANIZED HANGAR STRAPS ATTACHED TO BOTH SIDES AND TO THE BOTTOM OF A DUCT AT INTERVALS NOT EXCEEDING 4'-0". PROVIDE ACCESS DOORS FOR ALL TYPES OF DAMPERS. ALL ACCESS DOORS SHALL HAVE HEAVY-DUTY BRASS FINISHED HINGES AND LATCHES. AFTER FANS ARE IN OPERATION ALL DUCTS THAT RATTLE, VIBRATE, BUCKLE OR GENERATE NOISE SHALL BE REPAIRED AND/OR BRACED WITH STIFFENERS AND/OR SUPPORTS UNTIL THEY ARE RIGID AND FREE OF ANY VIBRATION. REPLACE ALL DAMPERS AND ACCESSORIES THAT RATTLE OR GENERATE NOISE WHEN FANS ARE OPERATING. ALL RECTANGULAR ELBOWS SHALL BE EQUIPPED WITH TURNING VANES. SUPPLY DUCTS BRANCH TAKEOFFS SHALL BE CONSTRUCTED WITH NECKS AND SPLITTER DAMPERS EXCEPT WHERE INDICATED OTHERWISE.
B. ALL SUPPLY DUCTWORK SHALL BE SEALED AIRTIGHT WITH MINNESOTA MINING CO.: TYPE 800 SEALED COMPOUND.
DUCT INSULATION
WHERE THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM IS NOT GREATER THAN 15°F (8°C), (C403.11.1, NYCECC 2020)
A. ALL INSULATION AND ACCESSORIES SHALL BE INSTALLED AS RECOMMENDED BY MANUFACTURER.
B. ALL NEW DUCT INSULATION SHALL BE 1-1/2" THICK.
C. ALL SUPPLY AND RETURN DUCTS (15'-0" FROM UNIT) SHALL BE INTERNALLY LINED WITH 1" THICK ACOUSTIC AEROFLEX DUCT LINER. DUCT SIZE SHALL BE INCREASED TO PROVIDE CLEAR INSIDE DIMENSIONS AS NOTED ON PLAN.

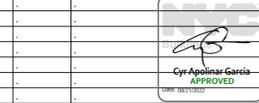
TABLE 6
COMMERCIAL ENERGY EFFICIENCY

- HEATING AND COOLING LOAD CALCULATION.
HEATING AND COOLING LOAD CALCULATIONS FOR DERIVING CORRECT EQUIPMENT SIZE ARE PERFORMED IN ACCORDANCE WITH ASHRAE/ACCA 183 (NYC ECC 2020 C403.1.1).
- SYSTEM CONTROLS.
EACH HEATING AND COOLING SYSTEM SHALL BE PROVIDED WITH CONTROLS. THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE. (NYC ECC 2020 C403.4.1-C403.4.5).
PROGRAMMABLE CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR AT LEAST 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS; A MANUALLY OPERATED TIMER CAPABLE OF BEING ADJUSTED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS; OR AN OCCUPANCY SENSOR. (NYC ECC 2020 C403.2.4.2.2).
- STAIRWAY AND SHAFT VENT DAMPERS.
STAIR AND ELEVATOR SHAFT VENTS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS THAT ARE CAPABLE OF BEING AUTOMATICALLY CLOSED DURING NORMAL BUILDING OPERATION AND ARE INTERLOCKED TO OPEN AS REQUIRED BY FIRE AND SMOKE DETECTION SYSTEMS. STAIRWAY AND SHAFT VENT SHALL BE PROVIDED WITH MOTORIZED DAMPERS. THEY SHALL HAVE AN AIR LEAKAGE RATE NOT GREATER THAN 4 CFM/FT² OF DAMPER SURFACE AREA AT 1.0 INCH WATER GAUGE AND SHALL BE LABELED BY AN APPROVED AGENCY WHEN TESTED IN ACCORDANCE WITH AMCA STANDARD 500 FOR SUCH PURPOSE (NYC ECC 2020 C403.7.7).
- DUCT AND PLENUM INSULATION AND SEALING.
ALL SUPPLY AND RETURN AIR DUCTS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND WITH A MINIMUM OF R-8 INSULATION WHEN LOCATED OUTSIDE THE BUILDING. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-6 INSULATION (NYC ECC 2020 C403.11.1)
- COMMISSIONING.
THE COMMISSIONING OF BUILDING MECHANICAL SYSTEMS, SERVICE WATER HEATING SYSTEMS, ELECTRICAL POWER AND LIGHTING SYSTEM ARE NOT REQUIRED AS PER SECTION C408 OF 2020 NYC ECC.



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THESE PLANS AND SPECIFICATIONS ARE EACH PART OF AN INTEGRATED DESIGN SYSTEM.
ANY MODIFICATION, ALTERATION, CHANGE, DELETION, ADDITION, OR SUBSTITUTION OF OR SPECIFICATIONS) COULD RESULT IN PROPERTY DAMAGE, INJURY, OR EVEN DEATH, AND REQUIRES A FULL REVIEW OF THE ENTIRE SYSTEM BY A PROFESSIONAL ENGINEER.
ANY UNAUTHORIZED MODIFICATION OF THIS DOCUMENT MAY CONSTITUTE UNLICENSED PRACTICE AS A PROFESSIONAL ENGINEER AND MAY CONSTITUTE A CLASS "E" FELONY (NY EDUCATION LAW §6512.1).
CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUALITY OF WORK. NO ALLOWANCES SHALL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.



PROJECT
920 METROPOLITAN AVE, BROOKLYN, NY 11211

DRAWING TITLE
PLOT PLAN, NOTES, LEGEND

DOB NOW JOB No.
B00715872-S6

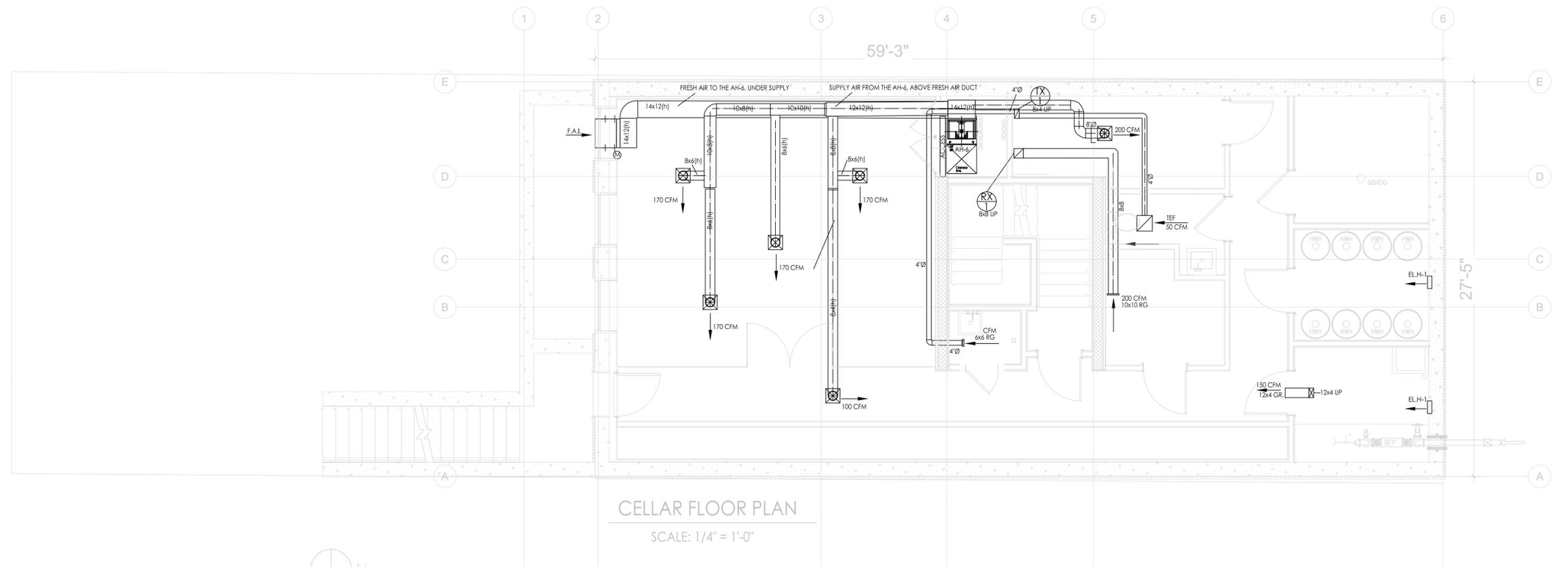
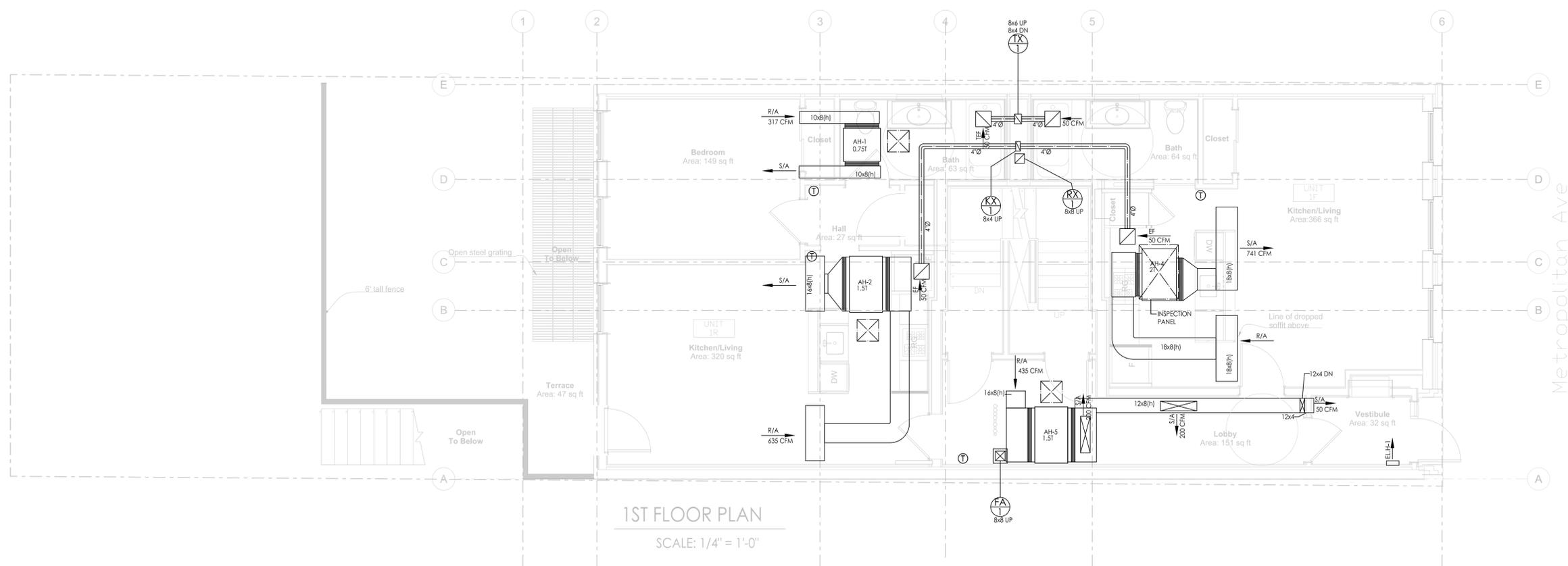
SEAL & SIGNATURE	DATE: 11-17-21
	DRAWN BY: V.B.
	CHK BY: D.L.
	DWG. NO.: MS-001.00
	CAD FILE No.: 01 OF 08

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Metropolitan Ave

Cyr Apollinar-Garcia
APPROVED
098-10250022

No. DATE DESCRIPTION
 PROJECT
 920 METROPOLITAN AVE, BROOKLYN, NY 11211

DRAWING TITLE
 CELLAR AND 1ST FLOOR PLANS

DOB NOW JOB No.
 B00715872-S6

SEAL & SIGNATURE
 DATE: 11-17-21
 DRAWN BY: V.B.
 CHK BY: D.L.
 DWG. NO.: MS-003.00
 CAD FILE No. 03 OF 08

TABLE 6.2

AIR CONDITIONER UNITS SCHEDULE (MITSUBISHI ELECTRIC)														
M-SERIES AND P-SERIES (HYPER)														
N#	A/C #	TOTAL UNITS	A/C UNIT	MOD.#	COOLING CAPACITY TON (MBH)	HEATING CAPACITY MBH	SEER (EER)	HSPF	AIR FLOW (CFM)	UNIT SUPPLY VOLTAGE	MIN. AMPACITY (AMP)	MAX. FUZE SIZE (AMP)	WEIGHT (LBS)	SERVING
1	AH-1	1	HORIZONTAL-DUCTED	SEZ-KD09NA4	0.75 (9.0)	10.9	N/A	N/A	317	208/230-1-60	1.0	15	42	BEDROOM
2	AH-2	1	HORIZONTAL-DUCTED	SEZ-KD18NA4	1.5 (17.2)	21.6	N/A	N/A	635	208/230-1-60	1.0	15	62	KITCHEN/LIVING
3	CU-1	1	OUTDOOR UNIT	MX23C30NAHZ	2.5 (27.4)	27.6	17.0	10.4	—	208/230-1-60	30.5	40	189	UNIT 1R
4	AH-4	1	HORIZONTAL-DUCTED	PEAD-A24AA7	2.0 (24.0)	25.0	N/A	N/A	741	208/230-1-60	1.0	15	62	KITCHEN/LIVING
5	CU-2	1	OUTDOOR UNIT	SUZ-KA24NAH7	2.0 (24.0)	25.0	15.0	9.0	—	208/230-1-60	17.0	25	190	UNIT 1F
6	AH-1	1	HORIZONTAL-DUCTED	SEZ-KD09NA4	0.75 (9.0)	10.9	N/A	N/A	317	208/230-1-60	1.0	15	42	BEDROOM
7	AH-2	1	HORIZONTAL-DUCTED	SEZ-KD18NA4	1.5 (17.2)	21.6	N/A	N/A	635	208/230-1-60	1.0	15	62	KITCHEN/LIVING
8	CU-3	1	OUTDOOR UNIT	MX23C30NAHZ	2.5 (27.4)	27.6	17.0	10.4	—	208/230-1-60	30.5	40	189	UNIT 2R
9	AH-1	1	HORIZONTAL-DUCTED	SEZ-KD09NA4	0.75 (9.0)	10.9	N/A	N/A	317	208/230-1-60	1.0	15	42	BEDROOM
10	AH-2	1	HORIZONTAL-DUCTED	SEZ-KD18NA4	1.5 (17.2)	21.6	N/A	N/A	635	208/230-1-60	1.0	15	62	KITCHEN/LIVING
11	CU-4	1	OUTDOOR UNIT	MX23C30NAHZ	2.5 (27.4)	27.6	17.0	10.4	—	208/230-1-60	30.5	40	189	UNIT 2F
12	AH-1	1	HORIZONTAL-DUCTED	SEZ-KD09NA4	0.75 (9.0)	10.9	N/A	N/A	317	208/230-1-60	1.0	15	42	BEDROOM
13	AH-2	1	HORIZONTAL-DUCTED	SEZ-KD18NA4	1.5 (17.2)	21.6	N/A	N/A	635	208/230-1-60	1.0	15	62	KITCHEN/LIVING
14	CU-5	1	OUTDOOR UNIT	MX23C30NAHZ	2.5 (27.4)	27.6	17.0	10.4	—	208/230-1-60	30.5	40	189	UNIT 3R
15	AH-1	1	HORIZONTAL-DUCTED	SEZ-KD09NA4	0.75 (9.0)	10.9	N/A	N/A	317	208/230-1-60	1.0	15	42	BEDROOM
16	AH-2	1	HORIZONTAL-DUCTED	SEZ-KD18NA4	1.5 (17.2)	21.6	N/A	N/A	635	208/230-1-60	1.0	15	62	KITCHEN/LIVING
17	CU-6	1	OUTDOOR UNIT	MX23C30NAHZ	2.5 (27.4)	27.6	17.0	10.4	—	208/230-1-60	30.5	40	189	UNIT 3F
18	AH-3	1	HORIZONTAL-DUCTED	PEAD-A12AA7	1.0 (12.0)	17.0	N/A	N/A	494	208/230-1-60	1.45	15	58	BEDROOM
19	AH-4	1	HORIZONTAL-DUCTED	PEAD-A24AA7	2.0 (24.0)	25.0	N/A	N/A	741	208/230-1-60	1.0	15	62	KITCHEN/LIVING
20	CU-7	1	OUTDOOR UNIT	MX24C36NAH2	3.0 (36.0)	45.0	17.45	10.7	—	208/230-1-60	42	50	276	UNIT 4R
21	AH-5	1	HORIZONTAL-DUCTED	SEZ-KD18NA4R1	1.5 (18.0)	21.6	N/A	N/A	635	208/230-1-60	1.0	15	62	VESTIBULE, LOBBY (1ST FL) HALL (CELLAR)
22	CU-8	1	OUTDOOR UNIT	MX23C30NAHZ	2.5 (27.4)	27.6	17.0	10.4	—	208/230-1-60	17	20	131	COMMON SPACE

TOTAL COOLING CAPACITY: 272,400 BTU/H
TOTAL HEATING CAPACITY: 289,600 BTU/H

TABLE 6.3

100% OUTSIDE AIR PROCESSING UNIT (MITSUBISHI ELECTRIC)														
SPLIT-TYPE AIR CONDITIONER (S-SERIES HYPER HEATING)														
N#	A/C #	TOTAL UNITS	A/C UNIT	MOD.#	COOLING CAPACITY TON (MBH)	HEATING CAPACITY MBH	SEER	HSPF	AIR FLOW (CFM)	UNIT SUPPLY VOLTAGE	MIN. AMPACITY (AMP)	MAX. FUZE SIZE (AMP)	WEIGHT (LBS)	SERVING
1	AH-6	1	MULTI-POSITION	PVFF-P4BNAMU-E1	4.0 (48.0)	28.0	—	—	980	208/230-1-60	5.6	15	172	COMMON
2	CU-9	1	OUTDOOR UNIT	PUMY-HP4BNKMU	4.0 (48.0)	54.0	16.5	11.0	—	208/230-3-60	36	40	267	LOUNGE

TABLE 6.4

FAN UNITS SCHEDULE (PANASONIC)												
CEILING MOUNTED EXHAUST FAN												
N#	FAN #	TOTAL FANS	MOD.#	AIR FLOW (CFM)	STATIC PRESSURE (INCHES)	SONES	V/Hz	CURRENT AMPS.	POWER (WATT)	ENERGY EF. (CFM/WATT)	WEIGHT (LBS)	REMARKS
1	TEF	7	FV-08VKM3	50	0.25"	0.3	120/60	0.02	7.5	7.7	10.4	EQUIPPED WITH ELECTRONICALLY COMMUTATED MOTORS
2	EF	7	FV-08VKM3	50	0.25"	0.3	120/60	0.02	7.5	7.7	10.4	

TURBINE VENTILATOR SCHEDULE				
N#	FAN #	MOD.#	CFM	NECK 4" WIND DIAMETER
1	RTE-1	2CS30	425	10"
2	RKE-1	4CB50	100	4"
3	RKE-1	4CB50	250	8"

TABLE 6.5

ELECTRIC HEATER (Qmark)											
N#	HEATER #	TOTAL HEATERS	HEATER TYPE	MOD.#	STOCK #	HEATING CAPACITY (BTU/H)	UNIT SUPPLY VOLTAGE	AMPERAGE	WATTS	WEIGHT (LBS)	REMARKS
1	EL-H-1	4	BUILT-IN WALL HEATER	SED2024	5ZK70	6,824	240/208	8.4	2000	11	WITH THERMOSTAT

DUCT AND PLENUM INSULATION (C403.11.1; 6.4.4.1.2):

SUPPLY AND RETURN AIR DUCTS AND PLENUMS MUST BE DESIGNED AS FOLLOWS:

- LOCATION: IN UNCONDITIONED SPACE. REQUIREMENT: INSULATED WITH MIN. R-6 INSULATION
- LOCATION: OUTSIDE THE BUILDING. REQUIREMENT: INSULATED WITH MIN. R-8 INSULATION
- LOCATION: WITHIN A BUILDING ENVELOPE ASSEMBLY. REQUIREMENT: SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED SPACE BY MIN. R-8 INSULATION

EXCEPTION: WHERE THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM IS NOT GREATER THAN 15°F (8°C). (C403.11.1, NYCECC 2020)

DUCT SYSTEM SEALING (C403.11.2; 6.4.4.2.1):

- JOINTS, SEAMS AND CONNECTIONS OF DUCTS, AIR HANDLERS, AND FILTER BOXES MUST BE SEALED.
- DRAWINGS MUST CLEARLY INDICATE PRESSURE CLASSIFICATIONS OF THE PROPOSED DUCT SYSTEMS IN ACCORDANCE WITH NYC MECHANICAL CODE.
- FOR HIGH-PRESSURE DUCT SYSTEMS THAT OPERATE AT A STATIC PRESSURE > 3 INCHES WATER GAUGE, DRAWINGS MUST SPECIFY THE DUCT LEAKAGE TEST REQUIREMENTS IN ACCORDANCE WITH THE SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL.

COMPRESSORS:
COMPRESSORS AND DRIVES LOCATED ON A FLOOR OTHER THAN A FLOOR ON GRADE SHALL BE MOUNTED ON VIBRATION ISOLATORS HAVING A MINIMUM ISOLATION EFFICIENCY OF 90 PERCENT AT THE LOWEST DISTURBING FREQUENCY. EACH ISOLATOR SHALL INCORPORATE A LEVELING DEVICE AND A RESILIENT PAD HAVING A MINIMUM THICKNESS OF 1/4 INCH (6.4 MM). (MC 928.3.6)

NOTE 6.1:
AC CONDENSATE DRAIN DIAGRAM IS LOCATED ON THE PLUMBING DRAWINGS.

HEATING AND COOLING LOAD CALCULATIONS FOR DETERMINING CORRECT EQUIPMENT SIZE ARE PERFORMED IN ACCORDANCE WITH ANSI/ASHRAE/ACCA STANDARD 185 HVAC SYSTEMS AND EQUIPMENT HANDBOOK.

THE INTERIOR DESIGN TEMPERATURES USED FOR HEATING AND COOLING LOAD CALCULATIONS SHALL BE A MAXIMUM OF 72°F (22°C) FOR HEATING AND MINIMUM OF 75°F (24°C) FOR COOLING.

TABLE 6.2

REFRIGERANT OPERATING TEMPERATURES		
VRF PIPING	SUCTION LINE	LIQUID LINE
TEMPERATURE RANGE	35°F–50°F	70°F–90°F

PROTECTION OF PIPING INSULATION NOTE 4.2:

PIPING INSULATION EXPOSED TO THE WEATHER SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT CAUSED BY SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND, AND SHALL PROVIDE SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ALUMINUM ROLL JACKETING IS THE PREMIER PROTECTIVE OUTER SURFACE COVERING FOR MECHANICAL INSULATION SYSTEMS INCLUDING PIPE, VESSELS, AND EQUIPMENT. IT PROTECTS THE INSULATION AND UNDERLYING PIPE/VESSEL FROM PHYSICAL DAMAGE, UV EXPOSURE, CORROSIVE ATMOSPHERES, AND WATER.

PIPING INSULATION EXPOSED TO THE WEATHER SHALL BE PROTECTED FROM DAMAGE BY ALUMINUM JACKET: ASTM B209 (ALL EXTERIOR REFRIGERANT PIPING SERVING AIR COOLED CONDENSER).

1. THICKNESS: 0.016-INCH SHEET.
2. FINISH: EMBOSSED.
3. JOINING: LONGITUDINAL SLIP JOINTS AND 2-INCH LAPS.
4. FITTINGS: 0.016-INCH THICK DIE SHAPED FITTING COVERS WITH FACTORY ATTACHED PROTECTIVE LINER.
5. METAL JACKET BANDS: 3/8 INCH WIDE; 0.010-INCH THICK STAINLESS STEEL. (OR EQUAL MATERIAL)

NOTE 12.1

1. ALL TOILET FANS OPERATIONAL 24/7.
2. ALL KITCHEN FANS OPERATIONAL 24/7.
3. ELECTRIC HEATER THERMOSTATS FOR COMMON SPACES, VESTIBULE AND UTILITY ROOMS, WILL BE PROGRAMMED TO KEEP A CONSTANT TEMPERATURE OF 50 DEGREES.
4. ELECTRIC HEATERS IN APARTMENT WILL BE MANUALLY CONTROLLED BY OCCUPANTS.

SHUTOFF DAMPERS ARE NOT REQUIRED AS PER SECTION 6.4.3.4.2 (EXCEPTION 5) OF THE 2020 NYC FCC APPENDIX CA (ASHRAE 90.1-2016)

EXCEPTION 5: SHUTOFF DAMPERS ARE NOT REQUIRED IN VENTILATION OR EXHAUST SYSTEMS THAT ARE REQUIRED BY THE NEW YORK CITY MECHANICAL CODE TO HAVE FANS THAT OPERATE CONTINUOUSLY, 24 HOURS PER DAY, 7 DAYS PER WEEK. SEE NOTE 12.1 ON THIS PAGE.

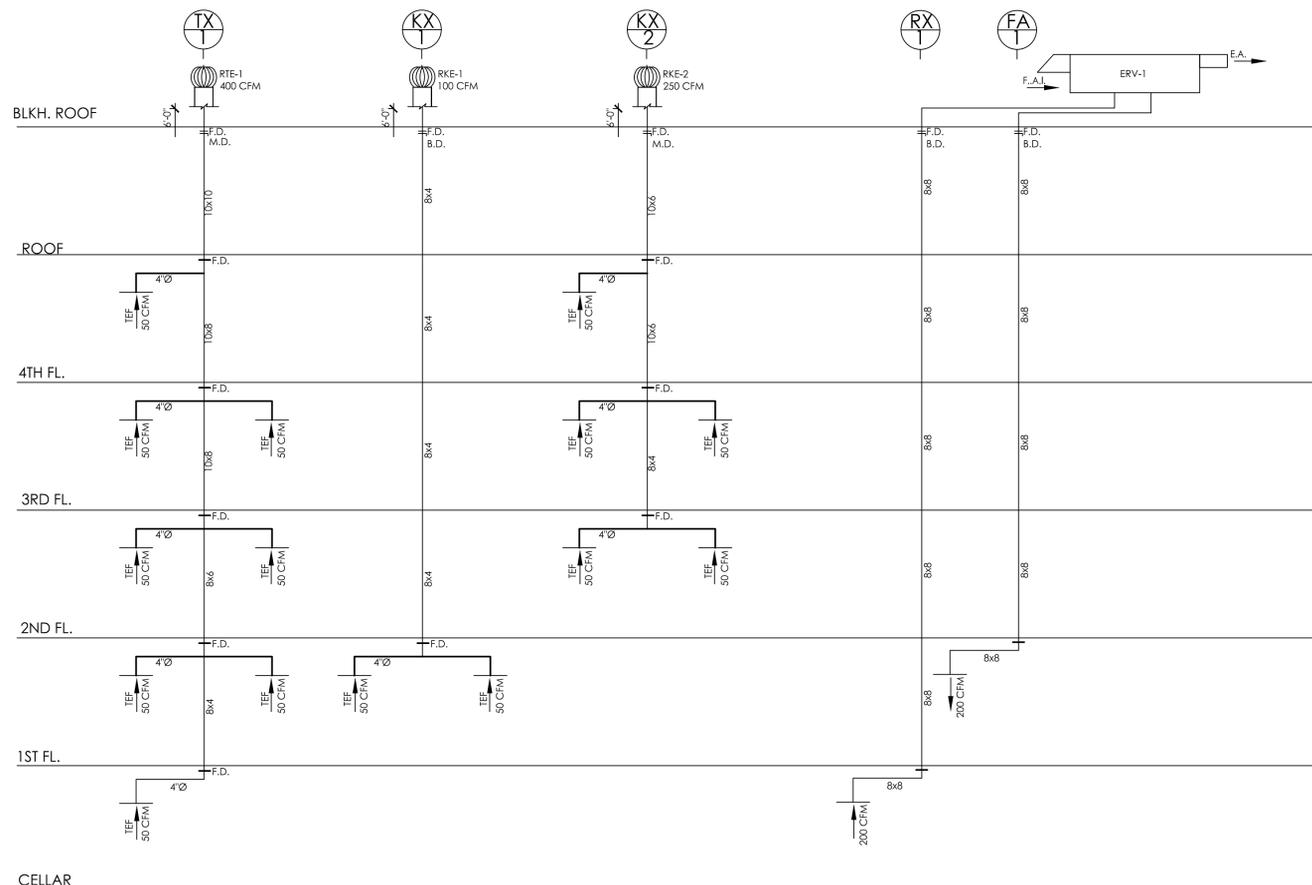
STAIR AND ELEVATOR SHAFT VENTS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS THAT ARE CAPABLE OF AND CONFIGURED TO AUTOMATICALLY CLOSE DURING NORMAL BUILDING OPERATION AND ARE INTERLOCKED TO OPEN AS REQUIRED BY FIRE AND SMOKE DETECTION SYSTEM. (DAMPERS REQUIRED AS PER SECTION 6.4.3.4.1 – STAIRS AND ELEVATORS)

FAN MOTOR POWER LIMITATION (C403.8.1; C403.8.2; 6.5.3.1.1; 6.5.3.1.2):

- THAT EACH INDIVIDUAL FAN SYSTEM POWER IN THE HVAC SYSTEM DOES NOT EXCEED THE ALLOWABLE FAN SYSTEM MOTOR NAMEPLATE HORSEPOWER (OPTION 1), OR FAN SYSTEM BRAKE HORSEPOWER (OPTION 2).
- THE FAN BRAKE HORSEPOWER FOR EACH FAN LISTED ON THE SCHEDULE MUST BE ≤ THE FIRST AVAILABLE MOTOR SIZE GREATER THAN THE HP VALUE CALCULATED PER SECTION C403.8.2.

TABLE 6.6

Energy Recovery Ventilator SCHEDULE											
RENEWAIRE											
N#	FAN #	TOTAL FANS	MANUFACTURER/ MODEL	AIR FLOW (CFM)	SP (IN)	SDNES	MCA	VOLTAGE	FUSE	WEIGHT (LBS)	AHRI 1060
1	ERV-1	1	EV450RT-ECM	200	0.15	2.7	10.1 A	120/1/60	15	246.0	185-G5



EXHAUST SYSTEMS RISER DIAGRAMS

N.T.S.

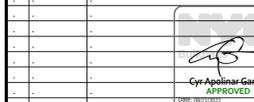
- 28 Dooley Street, 2nd Floor Brooklyn, NY 11235
- Phone (718) 332-2266
- www.levin-engineering.com
- info@levin-engineering.com

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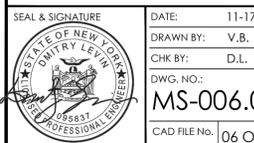
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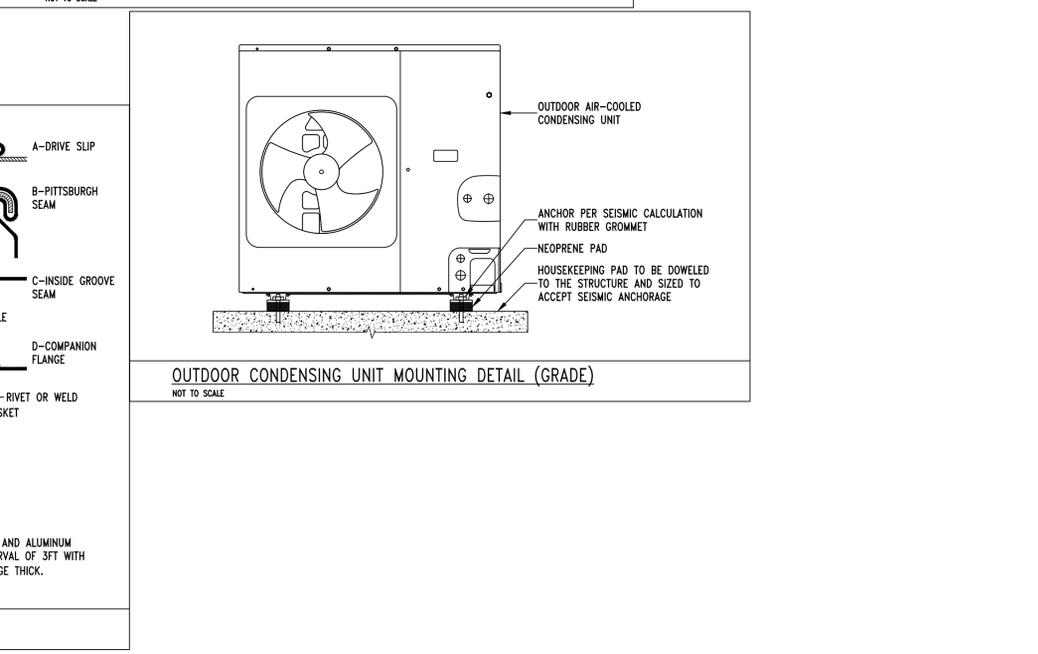
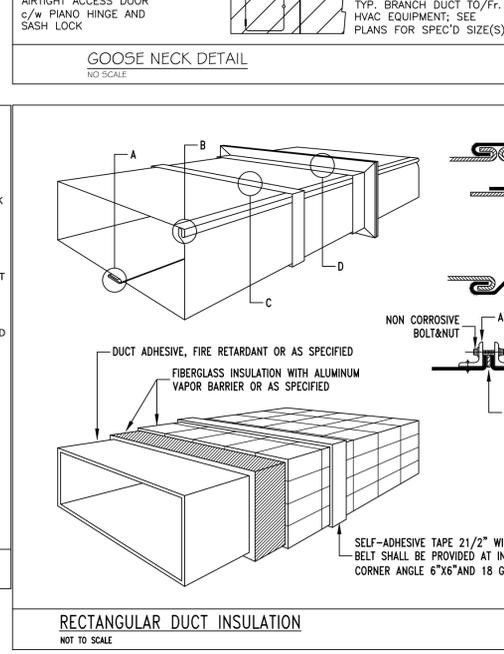
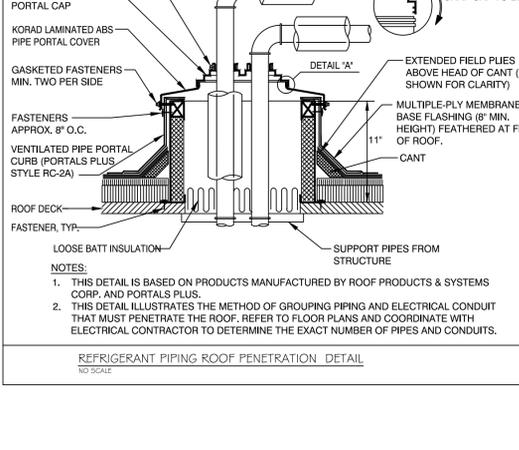
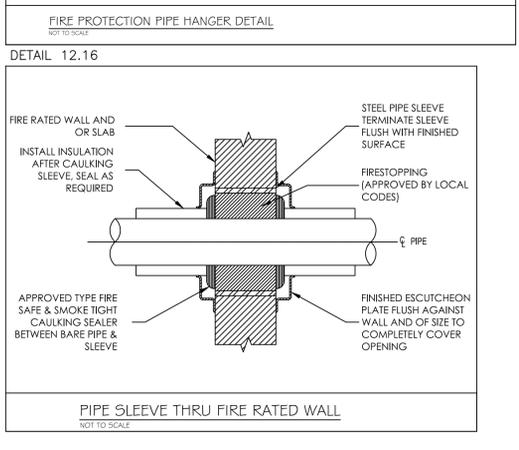
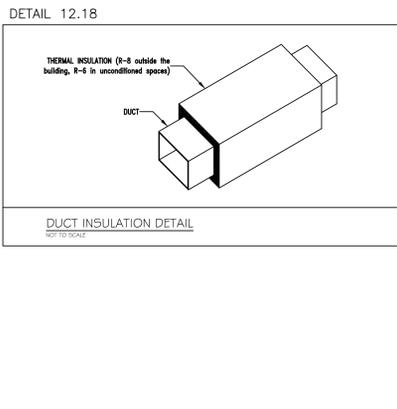
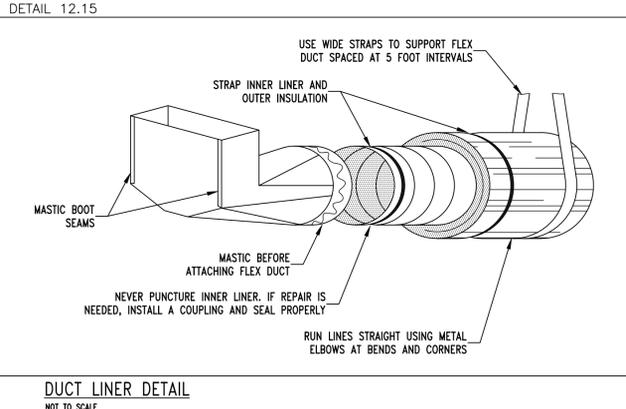
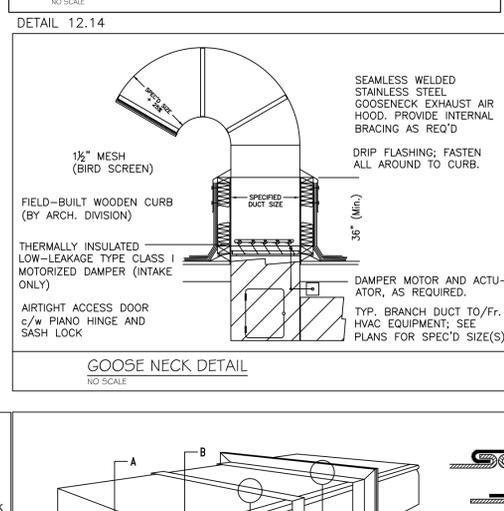
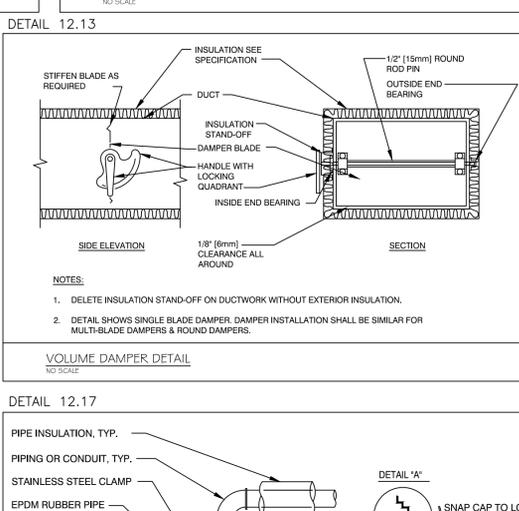
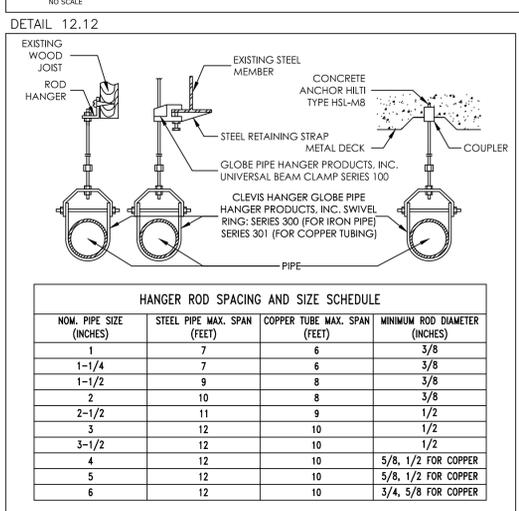
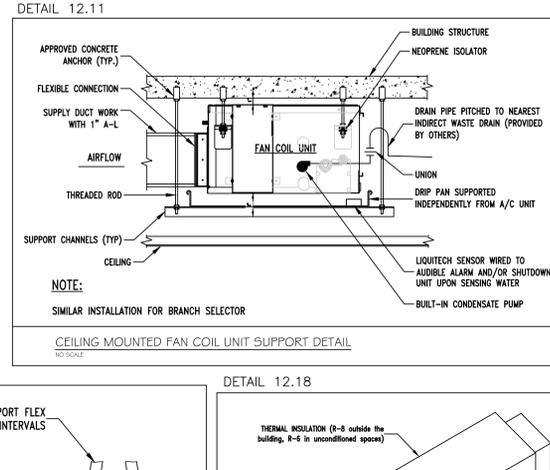
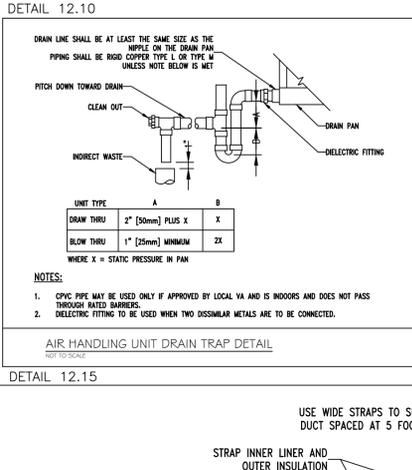
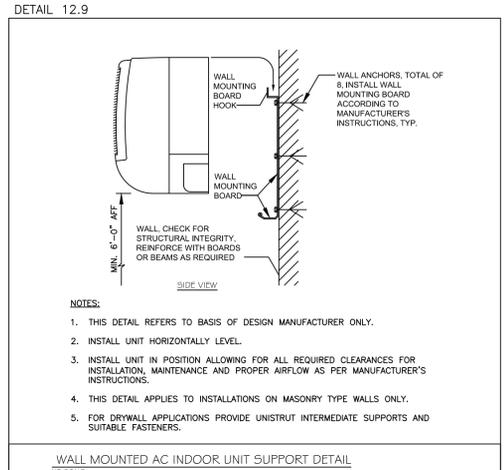
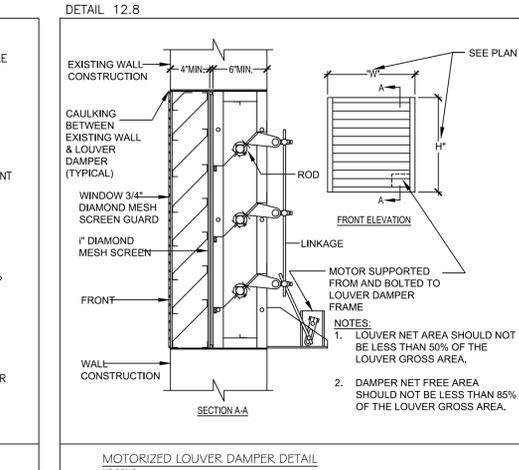
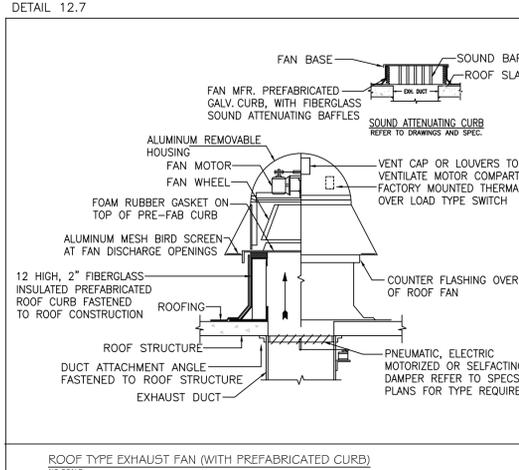
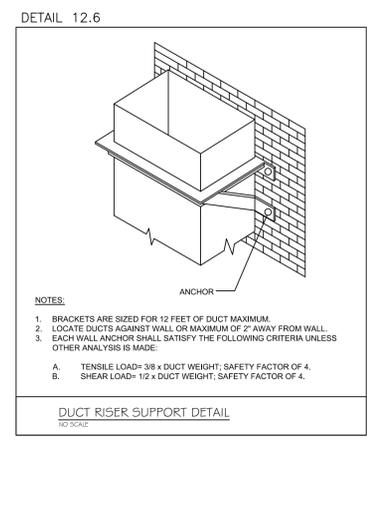
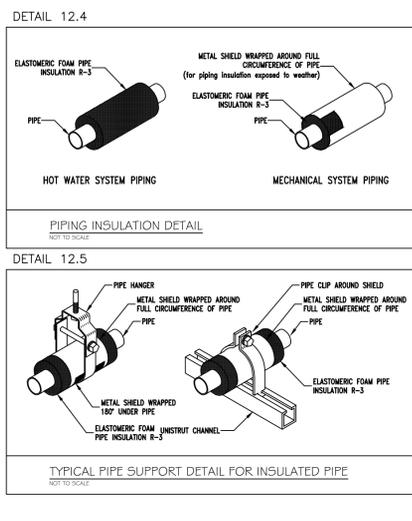
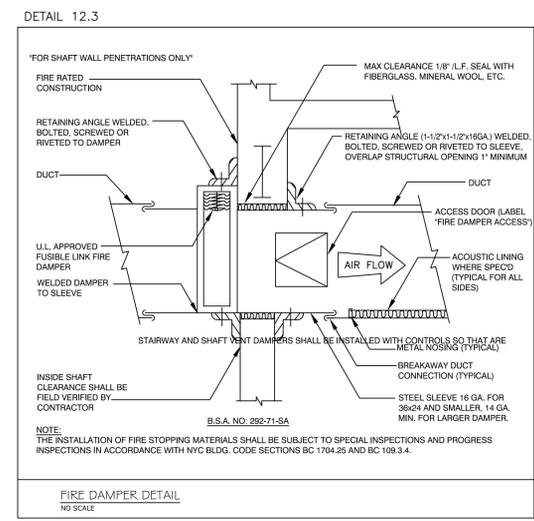
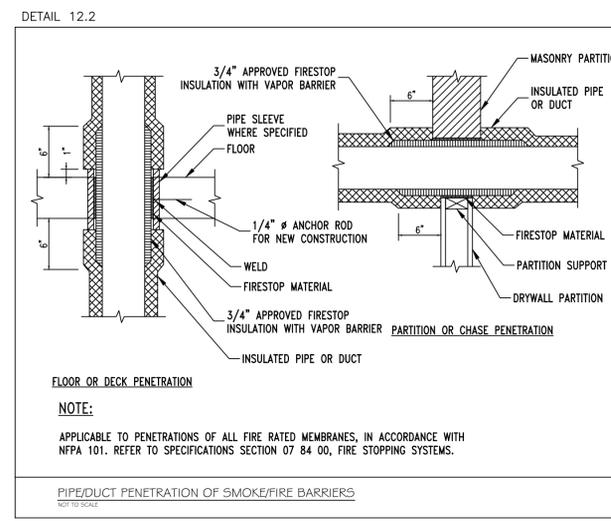
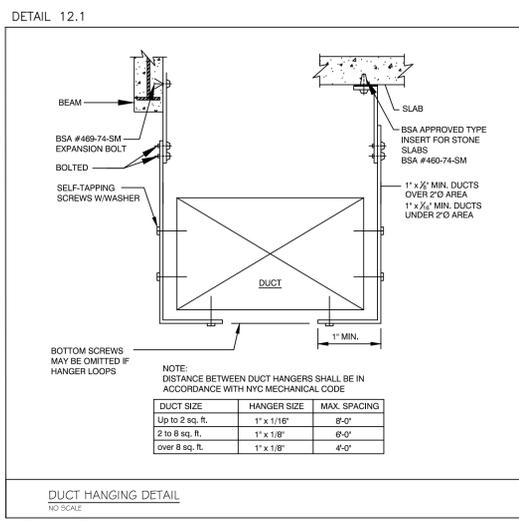
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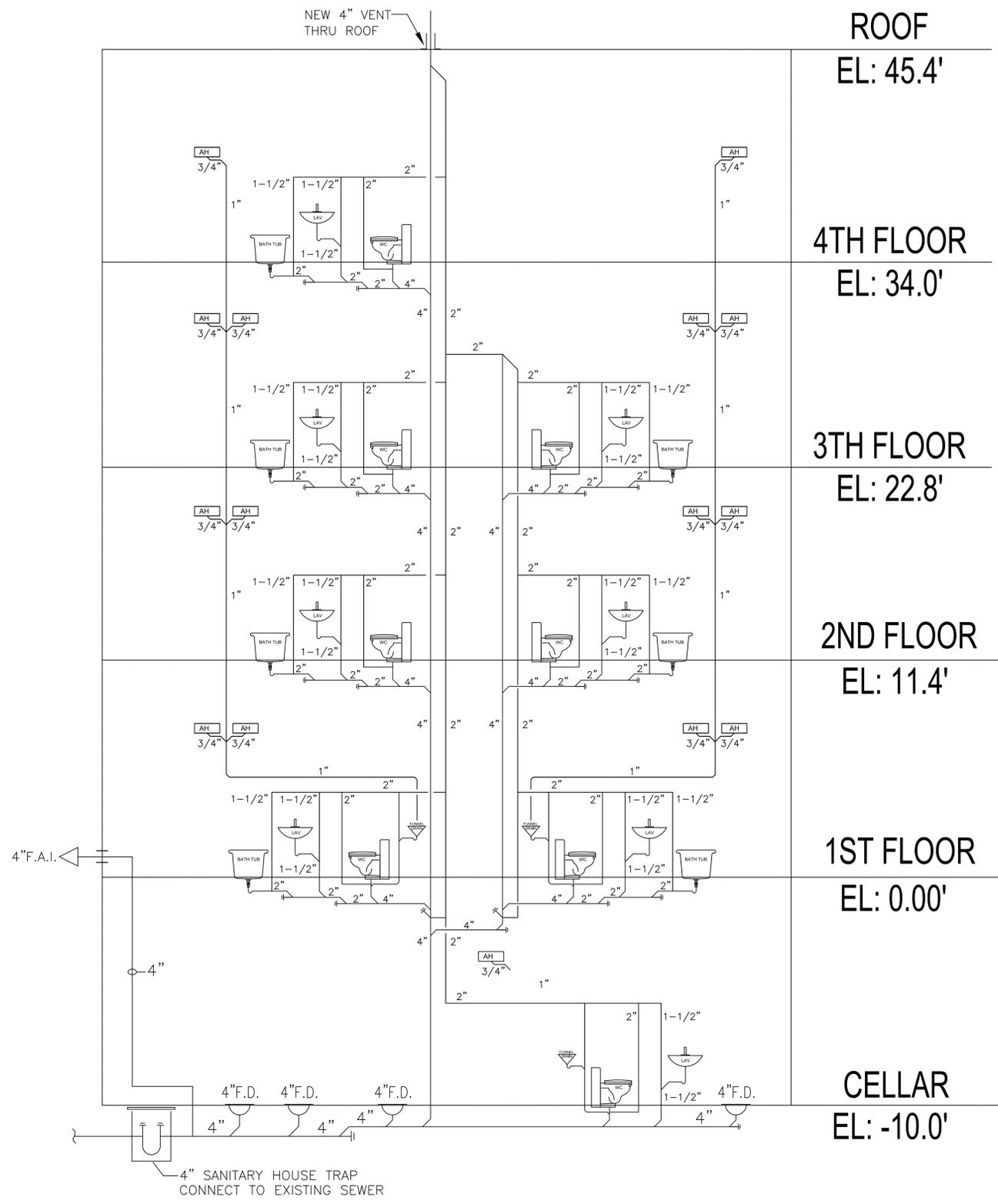
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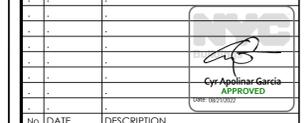
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PART OF SANITARY RISER DIAGRAM WITH CONDENSATE DISCHARGE
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PLUMBING SPECIFICATION

- GENERAL CONDITIONS**
THE PROVISIONS OF DIVISION 1 SHALL APPLY TO THE WORK OF THIS SECTION.
- GENERAL**
 - CONTRACTOR SHALL PROVIDE PROOF OF ADEQUATE INSURANCE TO HOLD OWNER, ARCHITECT, AND ENGINEER HARMLESS FOR ANY LIABILITY CLAIMS ARISING FROM PERFORMANCE OF HIS WORK.
 - CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT UNNECESSARY DAMAGE TO BUILDING STRUCTURE AND PROTECT BUILDING OCCUPANTS.
 - CONTRACTOR SHALL VISIT JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS RELATIVE TO THE INSTALLATION OF THE WORK. NO ALLOWANCE WILL BE MADE FOR HIS FAILURE TO DO SO.
 - CONTRACTOR SHALL REVIEW THE PLANS OF OTHER TRADES AND COORDINATE HIS WORK TO PROVIDE FOR ADEQUATE SPACE AND CLEARANCES AS THE WORK PROGRESSES.
 - ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH RULES AND REGULATIONS OF NEW YORK CITY BUILDING CODE, BASE BUILDING STANDARDS AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
 - CONTRACTOR SHALL PAY ALL FEES, OBTAIN ALL NECESSARY PERMITS, AND COORDINATE UTILITY WORK.
 - ALL PIPING SHALL BE CONCEALED WITHIN THE HUNG CEILINGS ALL WALLS. NO EXPOSED PIPING WILL BE ALLOWED.
 - ROUGHING AND FINAL CONNECTIONS TO EQUIPMENT WHICH IS FURNISHED BY OTHERS SHALL BE INSTALLED BY THIS CONTRACTOR.
 - FOR EXACT LOCATION OF PARTITIONS, CEILING HEIGHTS, SOFFITS, ETC., REFER TO THE ARCHITECTURAL DRAWINGS.
 - WASTE LINES INSTALLED AT CEILING OF SPACE BELOW THE FLOOR SHALL BE RUN TIGHT TO SLAB OR BOTTOM OF BEAMS.
 - THE CONTRACTOR SHALL RUN ALL PIPING AS REQUIRED TO PERFORM ALL WORK SHOW IN THE DRAWINGS AND COORDINATE LOCATIONS OF EXISTING DRAINAGE, WATER SUPPLY, ETC. AS REQUIRED TO COMPLETE ALL PLUMBING WORK SHOWN.
 - THE WORK UNDER THIS CONTRACT SHALL BE PERFORMED SIMULTANEOUSLY WITH THE WORK OF OTHER TRADES, SO AS NOT TO DELAY THE OVERALL PROGRESS OF WORK.
- SHOP DRAWING SUBMISSIONS**
APPROVAL PRIOR TO PURCHASE.
 - SIX (6) COPIES OF FIXTURES MANUFACTURER'S DATA SHALL BE SUBMITTED FOR SCOPE OF WORK
 - FURNISH AND INSTALL ALL LABOR AND MATERIALS FOR INSTALLATION OF:
 - DRAINAGE AND VENT PIPING
 - HOT AND COLD WATER PIPING
 - ROUGHING AND FINAL CONNECTIONS FOR EQUIPMENT FURNISHED BY OTHERS
 - FURNISH AND INSTALL NEW PLUMBING FIXTURES.
- PIPE INSTALLATION**
 - ALL PIPING SHALL BE INSTALLED IN AN APPROVED MANNER.
 - DRAIN LINES SHALL HAVE REQUIRED UNIFORM SLOPE OF 1/4" PER FOOT MINIMUM. 1/8" PER FOOT SHALL BE PERMITTED ON MAIN DRAIN LINES WHERE REQUIRED TO MAINTAIN CLEARANCES. ALL PIPING SHALL BE AMPLY SUPPORTED TO PREVENT ANY SAGGING OR BOWING.
 - WATER PIPING SHALL BE RUN PARALLEL TO BUILDING WALLS, AND SHALL BE AMPLY SUPPORTED. PROVIDE STOP VALVES AT ALL EQUIPMENT AND FIXTURES. PROVIDE SECTION SHUTOFF VALVE AT CONNECTIONS TO EXISTING PIPING.
 - CONTRACTOR SHALL PERFORM ALL NECESSARY CUTTING AND ROUGH PATCHING FOR THE ADMISSION OF HIS WORK.
- MATERIALS**
 - ALL MATERIALS USED SHALL BE NEW AND FREE OF DEFECTS.
 - PIPING: WHERE POSSIBLE PIPE MATERIALS SHALL MATCH EXISTING PIPE MATERIALS OR SHALL BE AS FOLLOWS:
SOIL, WASTE, OR VENT PIPING - CAST IRON "NO-HUB" PIPE AND FITTING (CISPI 301) ABOVE GROUND.
WATER PIPING - TYPE "L" COPPER TUBING "HARD TEMPER" WITH CAST BRASS SOLDER FITTINGS. NIBCO OR APPROVED EQUAL.
GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH SCREWED MALLEABLE IRON FITTINGS.
 - VALVES - VALVES ON WATER PIPING SHALL BE ALL BRONZE AS MANUFACTURED BY MILWAUKEE VALVE COMPANY, OR NIBCO. VALVES ON GAS PIPING SHALL BE WALWORTH LUBRICATED PLUG VALVES.
 - ALL HORIZONTAL STORM AND WASTE PIPING CONCEALED WITHIN HUNG CEILINGS OR WALLS AND ALL HOT AND COLD WATER PIPING SHALL BE INSULATED WITH CERTAINTED OR APPROVED EQUAL 2" THICK FIBERGLASS INSULATION WITH ALL SERVICE JACKET (ASJ).

WATER RISER DIAGRAM NOTES

- INSTALLATION SHALL BE INSTALLED IN STRICT CONFORMITY WITH ALL REQUIREMENTS OF THE NEW YORK CITY PLUMBING CODE AND ALL PERTINENT REFERENCE STANDARDS GOVERNING WATER WORK.
- WATER INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE LOCAL AUTHORITIES REQUIREMENTS.
- ALL WATER SUPPLIES SHALL BE OVER THE RIM SUPPLY OR SHALL BE PROVIDED WITH APPROVED TYPE VACUUM BREAKERS INCLUDING ALL WATER CLOSET FLUSH VALVES AND HOSE BIB CONNECTIONS.
- ALL WATER PIPING SHALL BE SIZED TO PRODUCE VELOCITIES NOT IN EXCESS OF 8" PER SECOND AND SHALL HAVE A MINIMUM OF 8 P.S.I. AT EVERY FIXTURE.
- EXPANSION LOOPS AND ANCHORS SHALL BE PROVIDED FOR EXPANSION IS HOT RECIRCULATING PIPING LINES.
- ALL CONNECTIONS TO EQUIPMENT OF DISSIMILAR MATERIAL SHALL BE PROVIDED WITH DIELECTRIC UNIONS.
- PROVIDE VALVES ON ALL BRANCH LINES TO EACH FIXTURE AND EQUIPMENT INCLUDING BRANCHES FROM MAINS AND FROM RISER. ALL RISER AND MAINS SHALL BE PROVIDED WITH VALVES.
- WHERE BRANCH SUPPLIES ARE TRAPPED AT LOW POINTS, AND WHERE BRANCH OR MAINS SUPPLY FIXTURES OR EQUIPMENT LOCATED HIGHER THAN SUPPLY MAIN, PROVIDE DRAIN BIBS ON LINE.
- FIXTURES PROVIDED BY G.C. ARE TO BE INSTALLED AND SET BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL TRAPS, TRIM NOT PROVIDED BY THE G.C. AND SHALL CONNECT ALL FIXTURES, EQUIPMENT AND MAKE FINAL CONNECTIONS.
- THIS CONTRACTOR SHALL CONNECT AND PROVIDE ALL NECESSARY SERVICES TO ALL FIXTURES AND EQUIPMENT INDICATED ON THE PLUMBING AND ARCHITECTURAL DRAWINGS.
- PLUMBING CONTRACTOR TO COORDINATE LAYOUT WITH THE KITCHEN EQUIPMENT SUPPLIER.

GENERAL NOTES

- PROVIDE NEW BUILDING SERVICES AND CONNECT THEM TO EXISTING STREET MAINS.
- CONNECT NEW WASTE, VENT AND COLD WATER SERVICES TO NEW BUILDING SERVICES. FIELD VERIFY EXACT LOCATION OF PIPING FOR EXACT LOCATION OF POINT OF CONNECTION.
- ALL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS BEFORE STARTING ANY WORK.
- ALL NEW CONNECTIONS TO SERVICES SHALL BE MADE IN AN APPROVED MANNER.
- BEFORE SUBMITTING PROPOSAL, BIDDERS SHALL CAREFULLY EXAMINE FIELD CONDITIONS AND CONTRACT DRAWING OF ALL TRADES. SUBMISSION OF PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT REQUIRED EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED DUE TO DIFFICULTIES, WHICH COULD HAVE BEEN FORESEEN, WILL NOT BE RECOGNIZED.

PLUMBING SYSTEM AND EQUIPMENT SHALL BE CONSTRUCTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE 2014 NEW YORK CITY BUILDING CODE AND THE 2014 NEW YORK CITY PLUMBING CODE.

THE ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, DEVIATIONS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH FABRICATION.

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NO CHANGE IN USE, EGRESS OR OCCUPANCY UNDER THIS APPLICATION.

PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE - COMMERCIAL BUILDING NYCECC-2020			
INSPECTION/TEST	PERIODIC (MINIMUM)	REFERENCE STANDARD (SEE ECC CHAPTER 6) OR OTHER CRITERIA	ECC OR OTHER CITATION
IIB MECHANICAL AND SERVICE WATER HEATING INSPECTIONS			
IIB3	HVAC AND SERVICE WATER HEATING EQUIPMENT PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C403.1, C403.2, C403.3, C403.7.5, C404.2, C404.5, C404.9, C405.10, C406.
IIB4	HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS AFTER INSTALLATION AND PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C403, C404, C406.
IIB5	HVAC-R AND SERVICE WATER PIPING DESIGN AND INSULATION AFTER INSTALLATION AND PRIOR TO CLOSING SHAFTS, CEILING AND WALLS	APPROVED CONSTRUCTION DOCUMENTS	C403.11, C404-4, C405.5
ID OTHER			
ID1	MAINTENANCE INFORMATION PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C408.1.1, C408.2.5.2, C408.3.2.

SYMBOLS LIST & ABBREVIATIONS	
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER RETURN PIPING (HWR)
	VENT PIPING
	WASTE OR SANITARY PIPING UNDER FLOOR
	BALL VALVE
	CHECK VALVE
	SHUT-OFF VALVE
	CHECK VALVE
	BALANCING VALVE
	SOLINOID VALVE
	CLEANOUT
	FLOOR DRAIN
	VACUUM BREAKER
	VENT
	WASTE
	COLD WATER
	HOT WATER
	HOT WATER RETURN

PLUMBING ABBREVIATIONS			
AFF	ABOVE FINISHED FLOOR	GPM	GALLON PER MINUTE
FFS	FLOOR SINK W/FUNNEL	IN.	INCHES
APPROX	APPROXIMATE	IW	INDERECT WASTE
ARCH	ARCHITECTURAL	HB	HOSE BIBB
&	AND	HW	HOT WATER
⊙	AT	HWR	HOT WATER RECIRCULATING
BFF	BELOW FINISHED FLOOR	MIN	MINIMUM
BLDG	BUILDING	#, NO.	NUMBER
BP	BACKFLOW PREVENTOR	NTS	NOT TO SCALE
BV	BACKWATER VALVE	OFD	OVERFLOW DRAIN
CLG	CEILING	PH	PHASE
CFH	CUBIC FEET PER HOUR	PLBG	PLUMBING
CO	CLEANOUT	PRESS.	PRESSURE
CODP	CLEANOUT W/DECK PLATE	QTY	QUANTITY
CW	COLD WATER	REQ'D	REQUIRED
DIA, ⌀	DIAMETER	RD	ROOF DRAIN
DN	DOWN	RM	ROOM
DWG	DRAWING	RPZ	REDUCED PRESSURE PRINCIPLE ASSEMBLY
DCDV	DOUBLE CHECK DETECTOR VALVE	SQ FT	SQUARE FOOT
DCV	DOUBLE CHECK VALVE	SRV	SAFETY RELIEF VALVE
EA	EACH	TBD	TO BE DETERMINED
EQ	EQUAL	TP	TRAP PRIMER
EQUIP	EQUIPMENT	TS	TEMPER SWITCH
EXIST	EXISTING	TW	TEMPERED WATER
FAI	FRESH AIR INTAKE	TYP	TYPICAL
FD	FLOOR DRAIN	VTR	VENT THRU ROOF
FS	FLOOR SINK	V	VENT
FT	FEET	WCO	WALL CLEANOUT
FU	FIXTURE UNIT	W	WIDTH
		W/	WITH

NOTE: ALL ABBREVIATIONS ARE NOT NECESSARILY SHOWN ON DRAWINGS.

DRAWINGS LIST	
PL-001	PLUMBING NOTES, SYMBOLS AND SPECIFICATIONS
PL-002	PLUMBING DETAILS
PL-003	GAS & WATER RISER DIAGRAMS
PL-004	STORM & SANITARY RISER DIAGRAMS
PL-005	PLUMBING CELLAR & 1ST FLOOR PLANS.
PL-006	PLUMBING 2ND & 3RD FLOOR PLANS.
PL-007	PLUMBING 4TH & ROOF FLOOR PLANS.
PL-008	PLUMBING RECIRCULATION HW PUMP.
EN-001	PLUMBING ENERGY ANALYSIS.

FIXTURES	FLOORS					
	CELLAR	001	002	003	004	ROOF
SINK - RESIDENTIAL		2	2	2	1	
DISHWASHER		2	2	2	1	
TOILET	1	2	2	2	1	
LAVATORY	1	2	2	2	1	
BATH TUB		2	2	2	1	
FLOOR DRAIN	6					
ROOF DRAIN					2	2
AREA DRAIN	2					
RPZ/BPP	1					
ELECTRIC WATER HEATER	8					
ELECTRIC RANGE		2	2	2	1	
HOSE BIB	1					
SINK - NON RESIDENTIAL	1					

PLUMBING SCOPE OF WORK		
SCOPE INCLUDES	INSTALLATION TYPES	TOTAL QUANTITY
NEW INSTALLATION	SANITARY PIPING	1
NEW INSTALLATION	DOMESTIC WATER PIPING	1
NEW INSTALLATION	WATER SERVICE PIPING	1
NEW INSTALLATION	WATER METER	1
NEW INSTALLATION	BACKFLOW PREVENTER	1
NEW INSTALLATION	STORM DRAINAGE PIPING	1
NEW INSTALLATION	ROOF DRAINS	4
NEW INSTALLATION	AREA DRAINS	2
NEW INSTALLATION	FLOOR DRAINS	6
NEW INSTALLATION	TOILETS	8
NEW INSTALLATION	BATHTUBS	7
NEW INSTALLATION	LAVATORIES	8
NEW INSTALLATION	SINKS-RESIDENTIAL	7
NEW INSTALLATION	DISHWASHER	7
NEW INSTALLATION	ELECTRIC RANGE	7
NEW INSTALLATION	ELECTRIC WATER HEATER	8
NEW INSTALLATION	SINKS-NON RESIDENTIAL	1
NEW INSTALLATION	HOSE BIB	1

TABLE 1
HOT WATER ENERGY NOTE:
ALL HOT WATER HEATERS & HOT WATER SUPPLY PIPING SHALL MEET THE REQUIREMENTS OF SECTION C404 OF THE 2020 NYCECC AND MUST BE VERIFIED THROUGH DATA BY THE MANUFACTURER OR THROUGH CERTIFICATION UNDER AN APPROVED CERTIFICATION PROGRAM.

CONTRACTOR SHALL BE RESPONSIBLE TO ENGAGE A SEPARATE ENGINEERING COMPANY TO FILE THE HOT WATER HEATERS/BOILERS WITH DEP BUREAU OF AIR RESOURCES. (IF APPLICABLE)

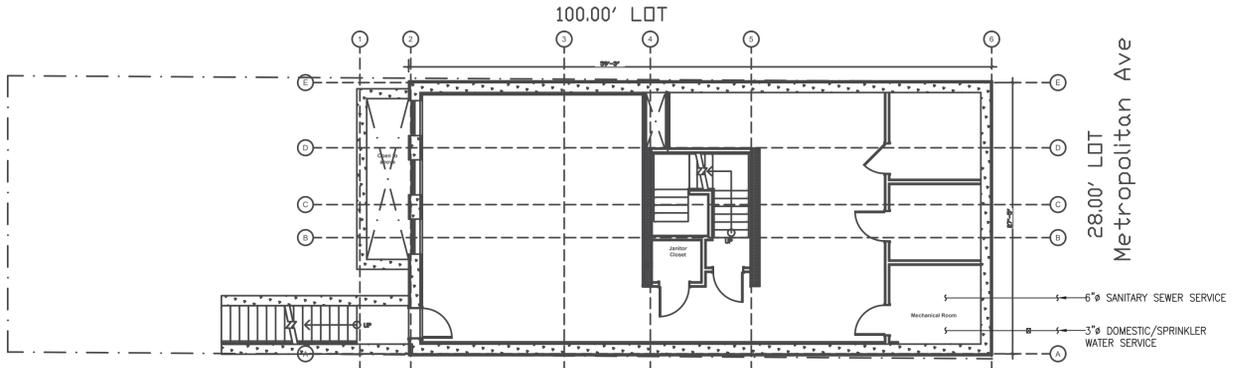
SPECIAL INSPECTION

- PRIVATE ON-SITE STORM WATER DRAINAGE DISPOSAL SYSTEM AND DETENTION FACILITIES
- FIRE-RESISTANT PENETRATIONS & JOINTS

PROFESSIONAL STATEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH NYCECC-2020.

RECIRCULATION PUMP SCHEDULE								
DESCRIPTION	MODEL	FLOW, GPM	PUMP HEAD FT	RPM	ELECTRICAL DATA			NOTES
					HP	VOLTAGE	AMPS	
HOT WATER RECIRCULATION PUMP	TACD COMFORT SOLUTION MODEL#006	11.5	9.5	3250	1/40	115-1-60	0.52	TO BE PROVIDE VACATION MODE



PLOT PLAN
N.T.S.

BLOCK: 2917 ZONE: R6B
LOT: 6 MAP: 13B

LOT: 2800 SF



- 28 Dooley Street, 2nd Floor Brooklyn, NY 11235
- Phone (718) 332-2266
- www.levin-engineering.com
- info@levin-engineering.com

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Michael Rahimi
APPROVED
Date: 08/11/2022

1 03/15/22 NEW CELLAR PLAN
No DATE DESCRIPTION

PROJECT
920 METROPOLITAN AVENUE, BROOKLYN, NY 11211

DRAWING TITLE
PLUMBING SPECIFICATIONS, NOTES, ABBREVIATIONS & PLOT PLAN.

DOB NOW JOB No.
B00715872-S7

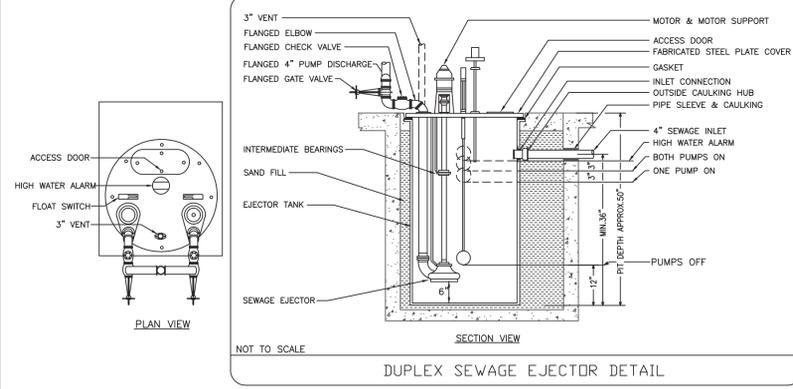
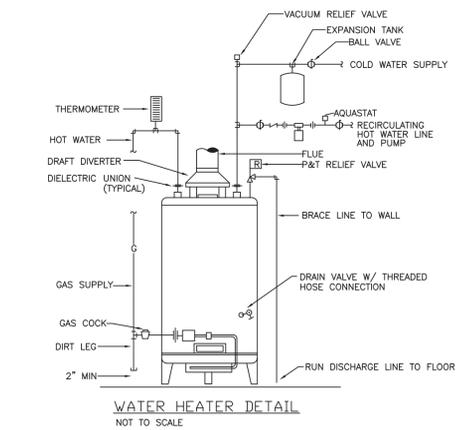
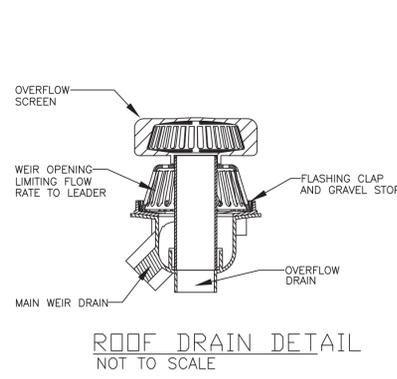
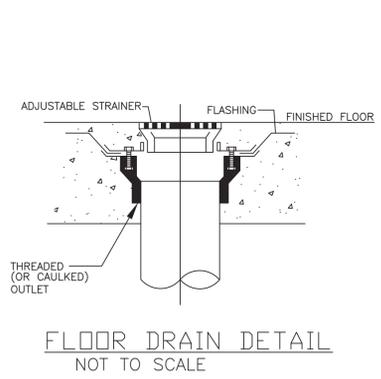
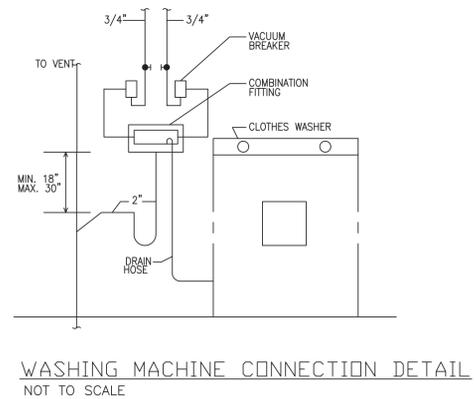
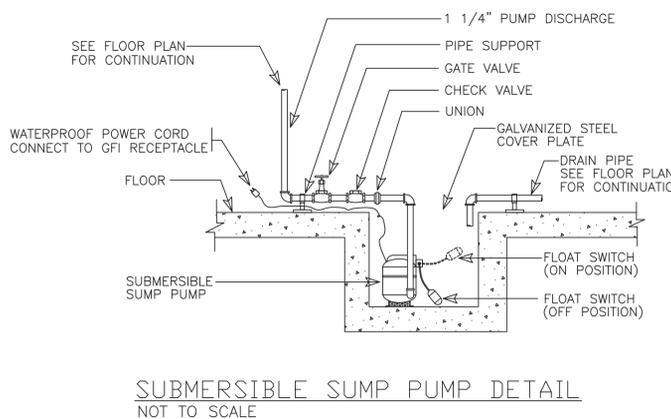
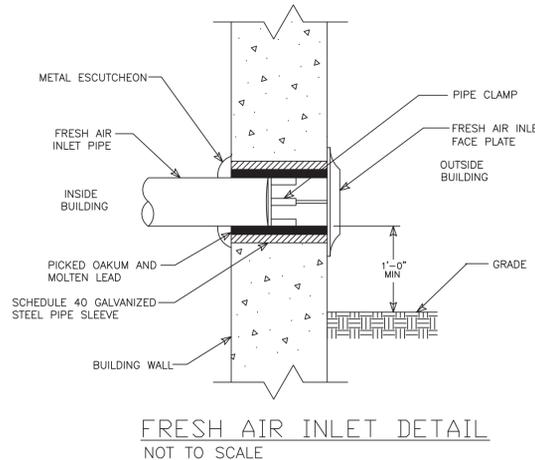
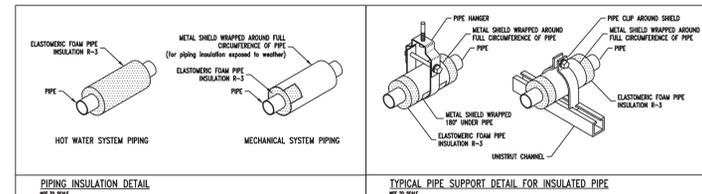
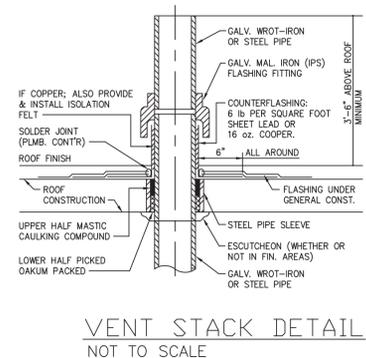
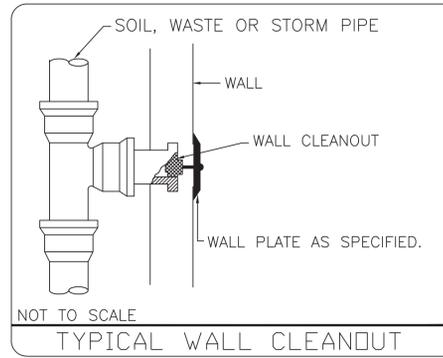
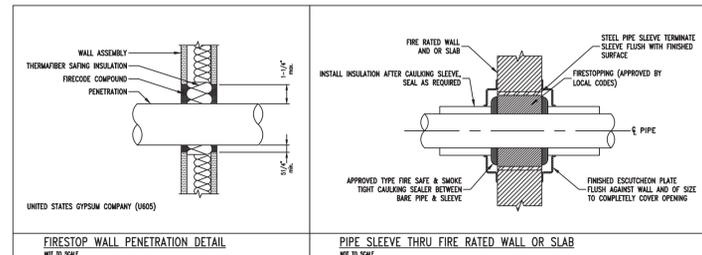
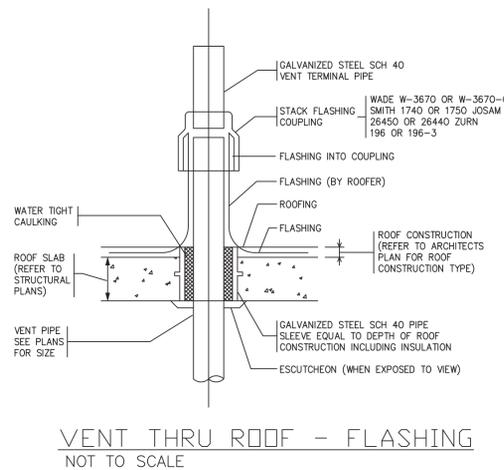
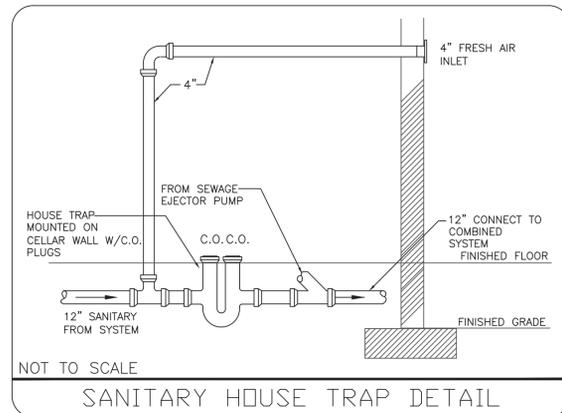
SEAL & SIGNATURE

DATE: 07-20-22
DRAWN BY: V.A.
CHK BY: D.L.
DWG. NO.: **PL-001.00**
CAD FILE No. 01 OF 08

THIS APPLICATION IS FOR PLUMBING WORK TYPE ONLY

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NYC
Buildings
Michael Rahimi
Michael Rahimi
APPROVED
Date: 08/11/2022



1	03/15/22	NEW CELLAR PLAN
No.	DATE	DESCRIPTION
PROJECT		
920 METROPOLITAN AVENUE, BROOKLYN, NY 11211		
DRAWING TITLE		
PLUMBING DETAILS.		
DOB NOW JOB No.		
B00715872-S7		

SEAL & SIGNATURE	DATE: 07-20-22
	DRAWN BY: V.A.
	CHK BY: D.L.
	DWG. NO.: PL-002.00
CAD FILE No. 02 OF 08	

THIS APPLICATION IS FOR PLUMBING WORK TYPE ONLY

TABLE 2

WATER-HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF TABLE C404.2 (ECC 2020). THE EFFICIENCY SHALL BE VERIFIED THROUGH DATA FURNISHED BY THE MANUFACTURER OR THROUGH CERTIFICATION UNDER AN APPROVED CERTIFICATION PROGRAM.

HEATED-WATER CIRCULATION SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION C404.6.1 (NYCECC 2020)
HEAT TRACE TEMPERATURE MAINTENANCE SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION C404.6.2 (NYCECC 2020)
CONTROLS FOR HOT WATER STORAGE SHALL BE IN ACCORDANCE WITH SECTION C404.6.3 (NYCECC 2020)
AUTOMATIC CONTROLS, TEMPERATURE SENSORS & PUMPS SHALL BE ACCESSIBLE. MANUAL CONTROLS SHALL BE READILY ACCESSIBLE.

TABLE 3

TABLE C403.11.3 (2020 NYCECC, COMMERCIAL ENERGY EFFICIENCY)
MINIMUM PIPE INSULATION THICKNESS (THICKNESS IN INCHES)
HOT WATER SYSTEMS & DOMESTIC WATER SYSTEMS

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (INCHES)					MATERIAL	STANDARD
	CONDUCTIVITY BTU-IN/(H·FT ² ·°F)	MEAN RATING TEMPERATURE, °F	< 1	1 to < 1½	1½ to < 4	4 to < 8	≥ 8		
105 -140	0.22 -0.28	100	1.0	1.0	1.5	1.5	1.5	Copper or copper-alloy tubing (TYPE K, L)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447
40 -60	0.22 -0.27	75	0.5	0.5	1.0	1.0	1.0		

INSULATE ALL WATER & HEATING PIPING

TABLE C404.5.1 (2020 NYCECC COMMERCIAL BUILDING)
PIPING VOLUME AND MAXIMUM PIPING LENGTHS

NOMINAL PIPE SIZE (inches)	VOLUME (liquid ounces per foot length)	MAXIMUM PIPING LENGTHS (feet)		
		System w/out a circulation loop or heat-traced line	System with a circulation loop or heat-traced line	Lavatory faucets-public (metering and nonmetering)
1/4	0.33	50	16	6
5/16	0.5	50	16	4
3/8	0.75	50	16	3
1/2	1.5	43	16	2
5/8	2	32	12	1
3/4	3	21	8	0.5
7/8	4	16	6	0.5
1	5	13	5	0.5
1 1/4	8	8	3	0.5
1 1/2	11	6	2	0.5
2 or larger	18	4	1	0.5

FIXTURE CONNECTION SCHEDULE

FIXTURE / ABBREVIATION	WASTE/SAN.	VENT	CW	HW
WATER CLOSET / WC	4"	2"	3/4"	-
LAVATORY / LAV	1 1/2"	1 1/2"	3/4"	3/4"
BATHTUB / BT	2"	1 1/2"	3/4"	3/4"
KITCHEN SINK / KS	2"	1 1/2"	3/4"	3/4"
DISHWASHER / DW	1 1/2"	1 1/2"	-	3/4"
HOSE BIB / HB	-	-	1/2"	-

TABLE 4

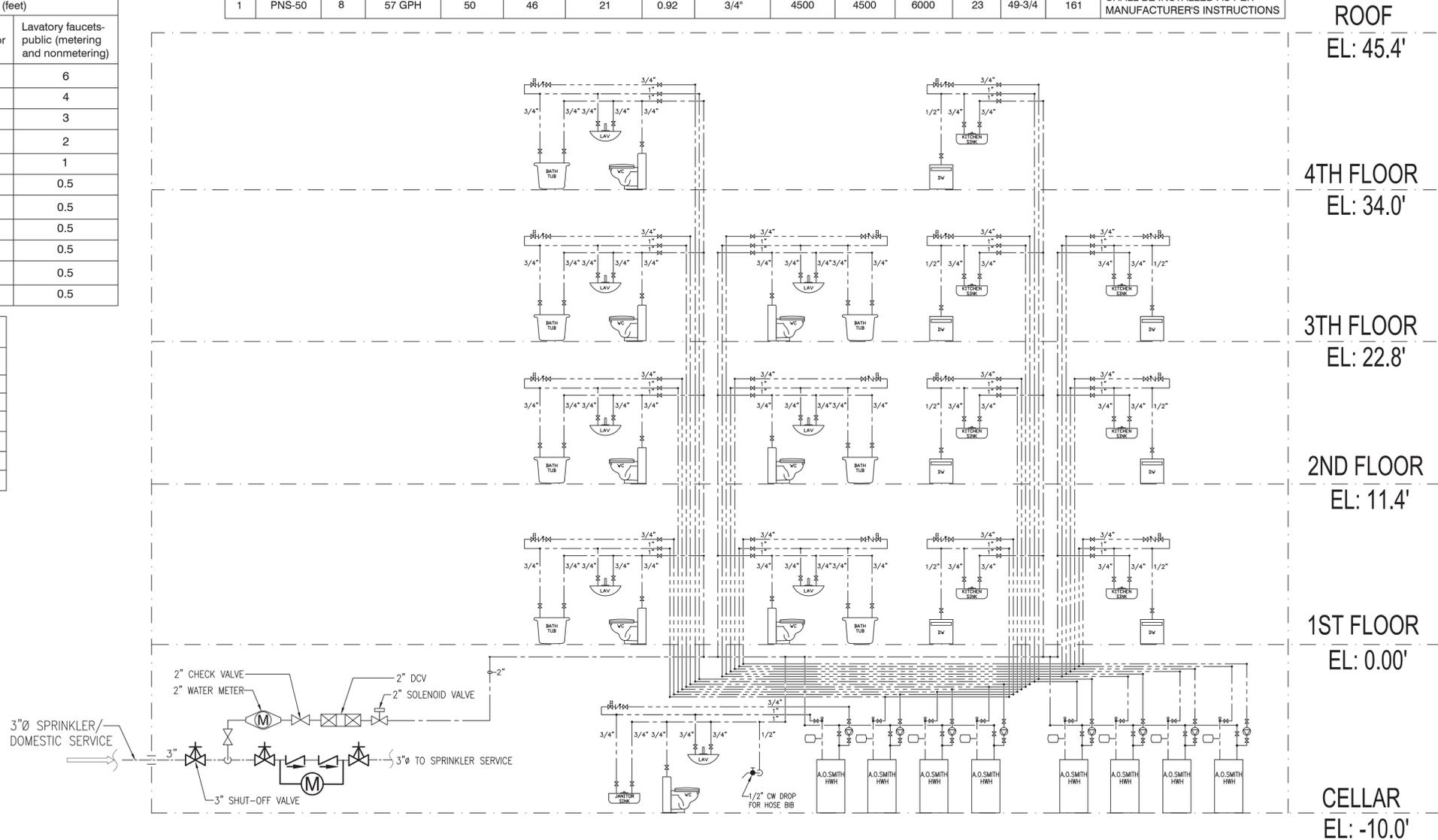
PROTECTION OF PIPING INSULATION NOTE:

PIPING INSULATION EXPOSED TO THE WEATHER SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT CAUSED BY SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND, AND SHALL PROVIDE SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL.
ALUMINUM ROLL JACKETING IS THE PREMIER PROTECTIVE OUTER SURFACE COVERING FOR MECHANICAL INSULATION SYSTEMS INCLUDING PIPE, VESSELS, AND EQUIPMENT. IT PROTECTS THE INSULATION AND UNDERLYING PIPE/VESSEL FROM PHYSICAL DAMAGE, UV EXPOSURE, CORROSIVE ATMOSPHERES, AND WATER.
PIPING INSULATION EXPOSED TO THE WEATHER SHALL BE PROTECTED FROM DAMAGE BY ALUMINUM JACKET: ASTM B209 (ALL EXTERIOR REFRIGERANT PIPING SERVING AIR COOLED CONDENSER).

- THICKNESS: 0.016-INCH SHEET.
- FINISH: EMBOSSED.
- JOINING: LONGITUDINAL SLIP JOINTS AND 2-INCH LAPS.
- FITTINGS: 0.016-INCH THICK DIE SHAPED FITTING COVERS WITH FACTORY ATTACHED PROTECTIVE LINER.
- METAL JACKET BANDS: 3/8 INCH WIDE; 0.010-INCH THICK STAINLESS STEEL. (OR EQUAL MATERIAL)

ELECTRIC HOT WATER HEATER SCHEDULE (A.O.SMITH)

Nº	MODEL NUMBER	TOTAL	FIRST HOUR RATING	GALLON CAPACITY	RATED STORAGE VOLUME	RECOVERY @ 90°F RISE GALLON PER HOUR	ENERGY FACTOR	WATER CONNECTION	ELEMENT WATTAGE 240V			DIMENSIONS		WEIGHT LBS.	NOTES
									STANDARD	MINIMUM	MAXIMUM	DIA. IN	H. IN		
1	PNS-50	8	57 GPH	50	46	21	0.92	3/4"	4500	4500	6000	23	49-3/4	161	SHALL BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS



DOMESTIC WATER RISER DIAGRAM

SCALE: NONE

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No DATE DESCRIPTION
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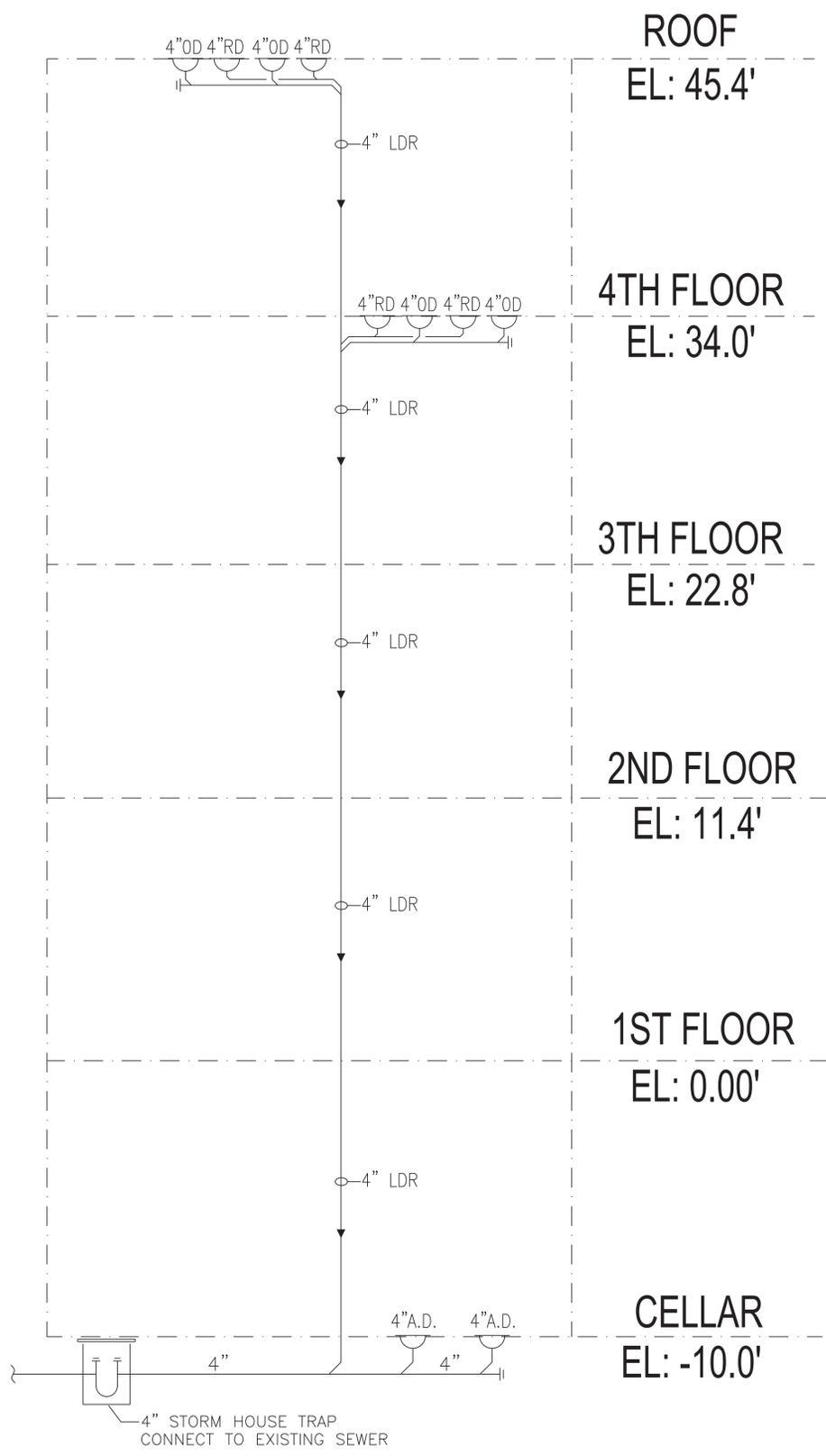
DRAWING TITLE
PLUMBING GAS & WATER RISER DIAGRAMS.

DOB NOW JOB No.
B00715872-S7

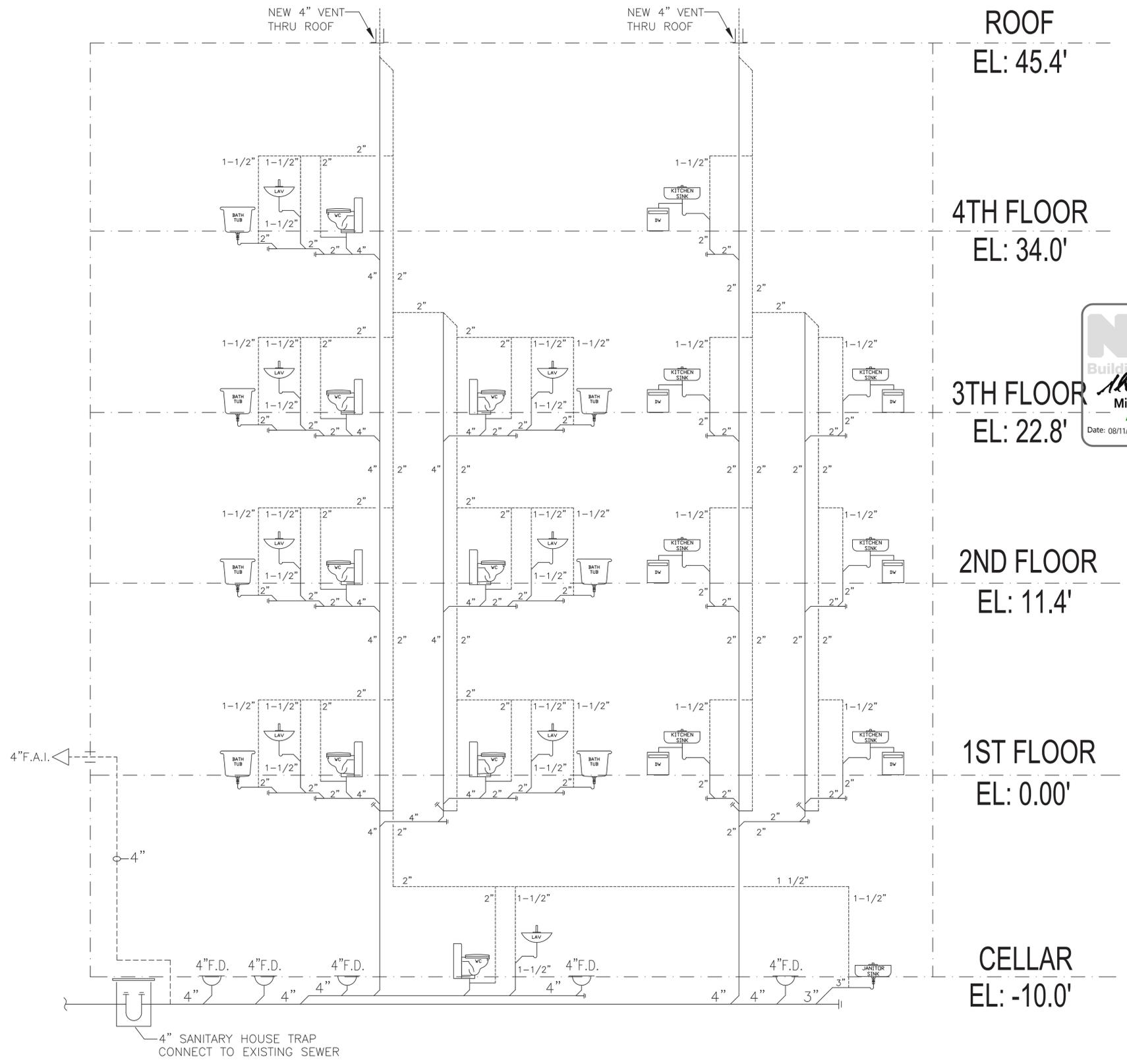
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DATE: 07-20-22
DRAWN BY: V.A.
CHK BY: D.L.
DWG. NO.: PL-003.00
CAD FILE No. 03 OF 08

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NYC
Buildings
Michael Rahimi
APPROVED
Date: 08/11/2022



STORM RISER DIAGRAM
SCALE: NONE



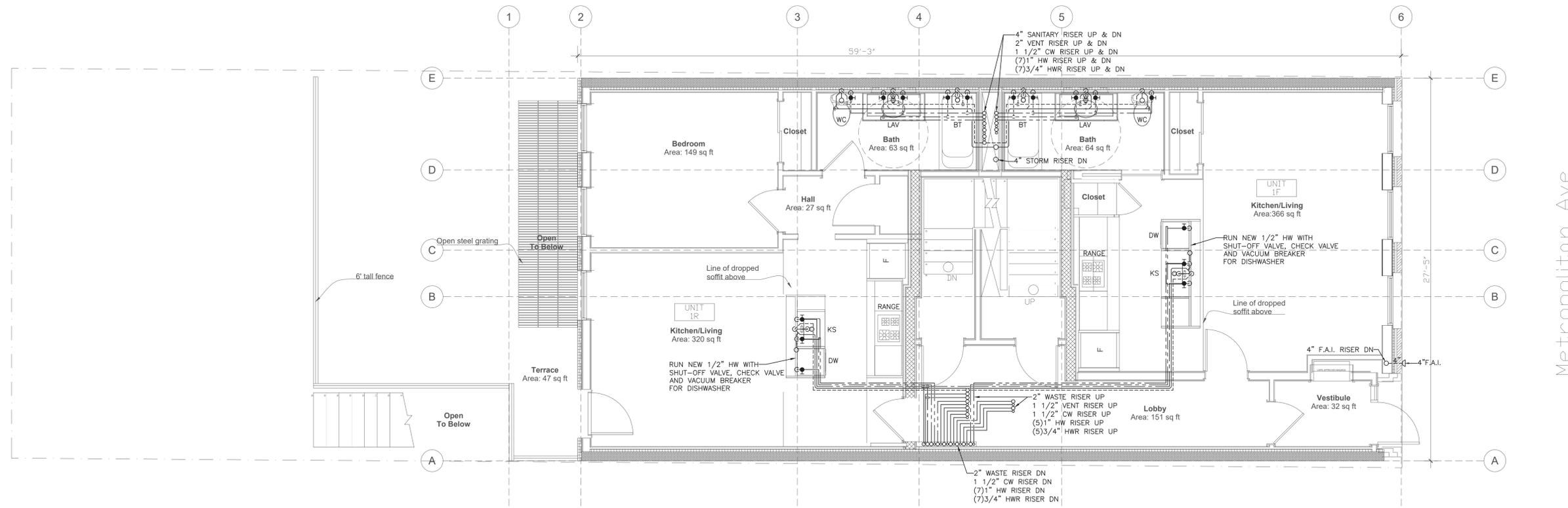
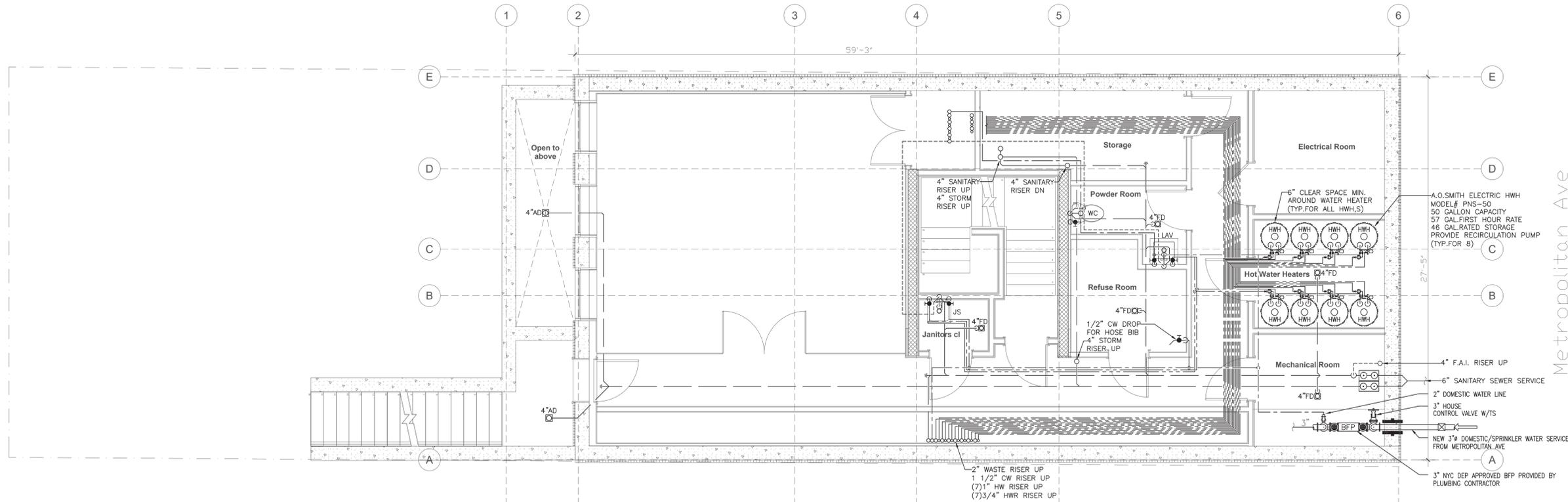
SANITARY RISER DIAGRAM
SCALE: NONE

1	03/15/22	NEW CELLAR PLAN
No	DATE	DESCRIPTION
PROJECT		
920 METROPOLITAN AVENUE, BROOKLYN, NY 11211		
DRAWING TITLE		
PLUMBING STORM & SANITARY RISER DIAGRAMS.		
DOB NOW JOB No.		
B00715872-S7		
SEAL & SIGNATURE	DATE:	07-20-22
DRAWN BY:	V.A.	
CHK BY:	D.L.	
DWG. NO.:	PL-004.00	
CAD FILE No.	04 OF 08	

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NYC
Buildings
Michael Rahimi
APPROVED
Date: 08/11/2022



Metropolitan Ave

Metropolitan Ave

No	DATE	DESCRIPTION
1	03/15/22	NEW CELLAR PLAN

PROJECT
920 METROPOLITAN AVENUE, BROOKLYN, NY 11211

DRAWING TITLE
PLUMBING CELLAR & 1ST FLOOR PLANS.

DOB NOW JOB No.
B00715872-S7

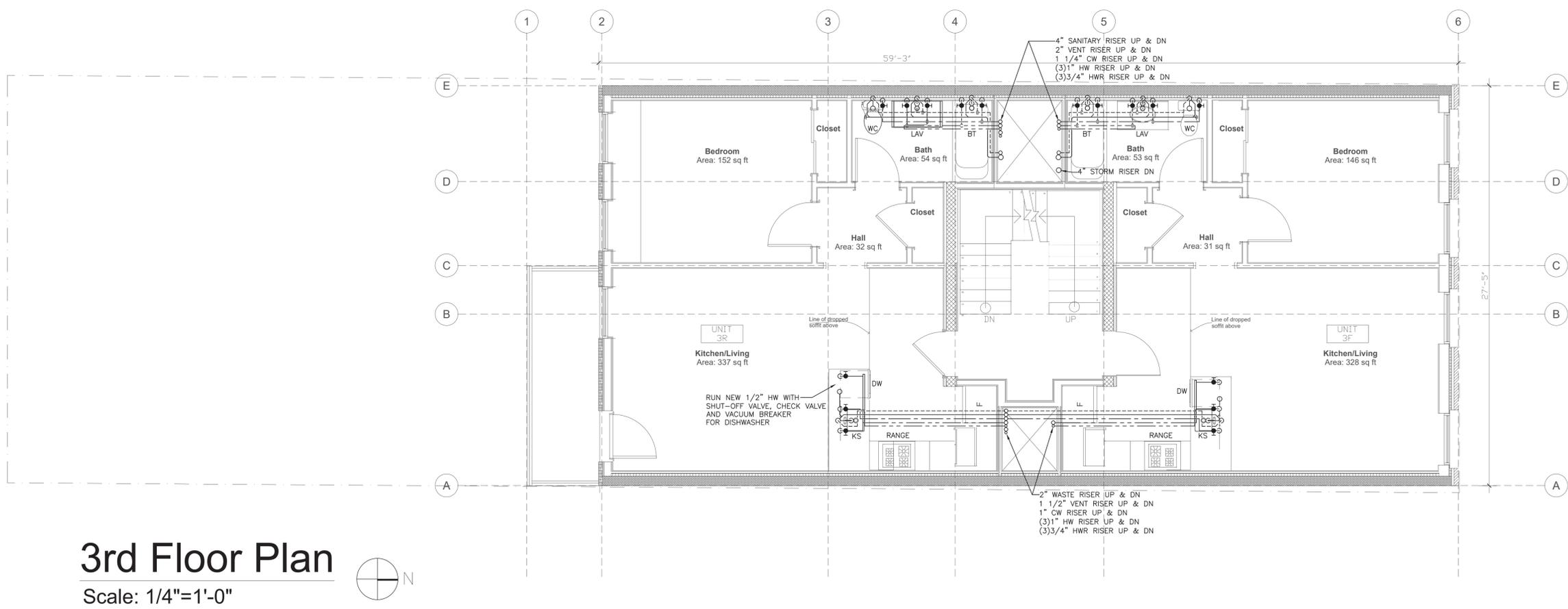
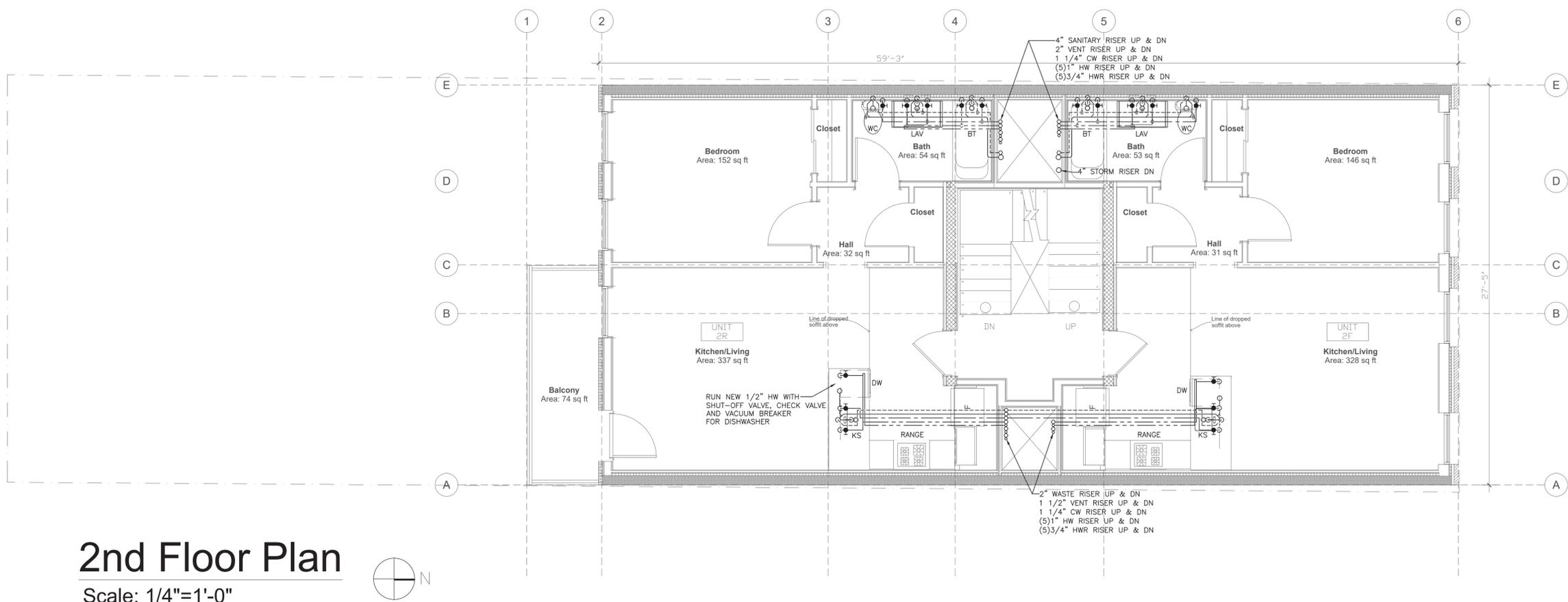
SEAL & SIGNATURE	DATE: 07-20-22
	DRAWN BY: V.A.
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	DWG. NO.: PL-005.00
	CAD FILE No. 05 OF 08

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NYC
 Building

Michael Rahimi
 APPROVED
 Date: 08/11/2022



Metropolitan Ave

Metropolitan Ave

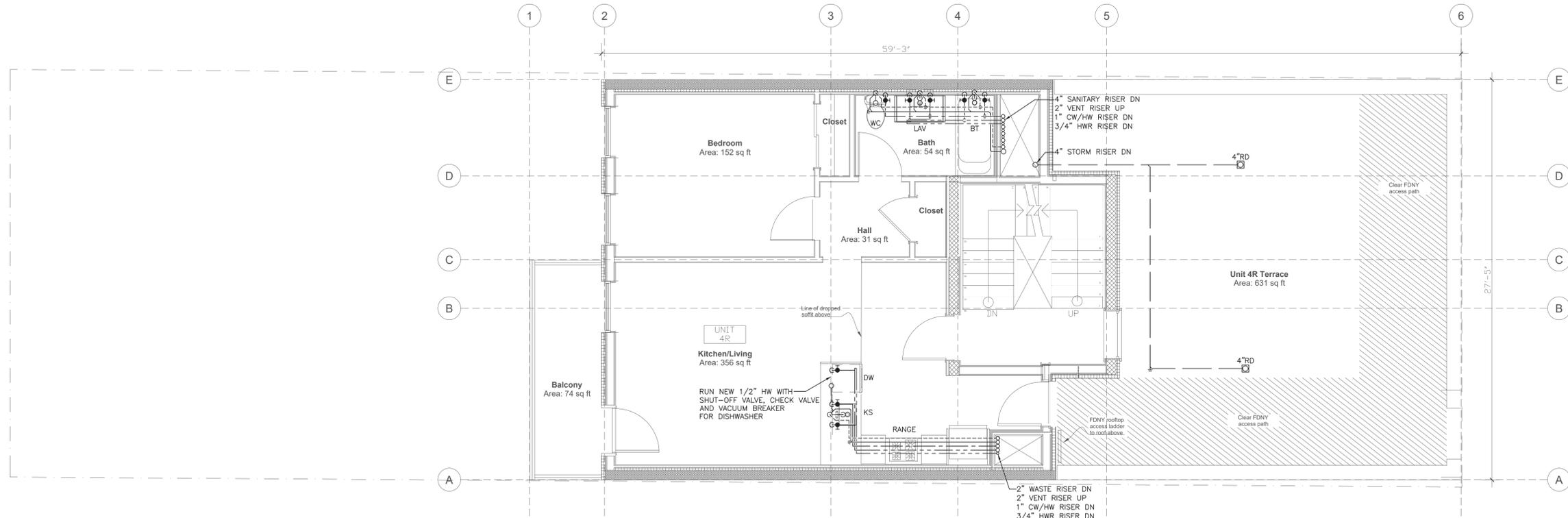
1	03/15/22	NEW CELLAR PLAN
No	DATE	DESCRIPTION
PROJECT		
920 METROPOLITAN AVENUE, BROOKLYN, NY 11211		
DRAWING TITLE		
PLUMBING 2ND & 3RD FLOOR PLANS.		
DOB NOW JOB No.		
B00715872-S7		
SEAL & SIGNATURE	DATE:	07-20-22
	DRAWN BY:	V.A.
	CHK BY:	D.L.
	DWG. NO.:	PL-006.00
	CAD FILE No.	06 OF 08

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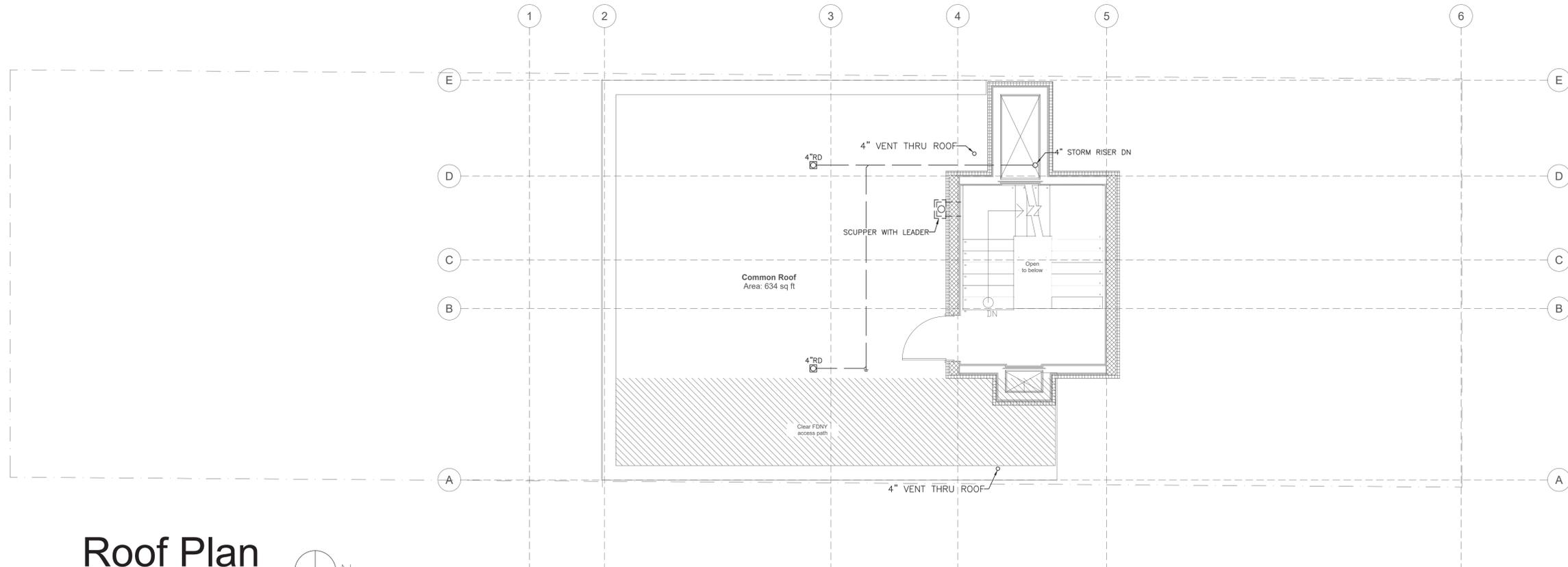
NYC
 Build It Right

Michael Rahimi
 APPROVED
 Date: 08/11/2022



4th Floor Plan

Scale: 1/4"=1'-0"



Roof Plan

Scale: 1/4"=1'-0"



Metropolitan Ave

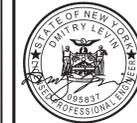
Metropolitan Ave

No	DATE	DESCRIPTION
1	03/15/22	NEW CELLAR PLAN

PROJECT
920 METROPOLITAN AVENUE, BROOKLYN, NY 11211

DRAWING TITLE
PLUMBING 4TH FLOOR & ROOF PLANS.

DOB NOW JOB No.
B00715872-S7

SEAL & SIGNATURE 	DATE: 07-20-22
DRAWN BY: V.A.	CHK BY: D.L.
DWG. NO.: PL-007.00	CAD FILE No. 07 OF 08

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No.	DATE	DESCRIPTION
1	03/15/22	NEW CELLAR PLAN

PROJECT
920 METROPOLITAN AVENUE, BROOKLYN, NY 11211

DRAWING TITLE
PLUMBING RECIRCULATION HOT WATER PUMP SUBMITTAL.

DOB NOW JOB No.
B00715872-S7

SEAL & SIGNATURE	DATE: 07-20-22
	DRAWN BY: V.A.
	CHK BY: D.L.
	DWG. NO.: PL-008.00
CAD FILE No.	08 OF 08

FOR HOT WATER RECIRCULATION

electronic control board. Pulse mode is indicated by a flashing yellow LED light. A solid yellow LED light indicates the pump is set to Smart mode. All operation is automatic, no manual timer or temperature setting is required.

Pulse Mode
When set for Pulse mode, the SmartPlus circulator will run automatically every 10 minutes to maintain hot water at all fixtures. The run time is adjustable from 1 to 10 minutes.

Smart Mode
The run time is adjustable from 1 to 10 minutes. When set for Smart mode, the circulator will run in Pulse mode as above for the first 7 days. During the first 7 days, the SmartPlus will monitor and record the household's hot water usage pattern. For the next 7 days, the SmartPlus will use the preceding week's usage pattern to cycle the pump. This process will be repeated every 7 days.

- MATERIALS OF CONSTRUCTION**
- Stator Housing.....Steel
 - Cartridge.....Stainless Steel
 - Impeller.....Noryl
 - Shaft.....Ceramic
 - Bearings.....Carbon
 - O-Ring.....EPDM
 - Casing (Volute).....Bronze, sweat, 1/2" & 3/4" (006) Stainless Steel, 3/4" FNPT (006) Stainless Steel, flanged (008)

Features & Benefits
Smart Mode — When set to Smart mode the pump will automatically learn the weekly household hot water usage patterns.

Variable Run Time Setting — Adjustable run time can be set between 1 to 10 minutes for varying domestic hot water pipe sizes and loop length.

72 Hour Memory Backup — Should a power outage occur, the SmartPlus (in Smart mode only) will retain its recorded settings and internal timer for 72 hours. When power is restored, the SmartPlus will return to its programmed mode setting, either "Pulse" or "Smart."

Vacation Function — After 36 hours of inactivity the pump will automatically TURN OFF and remain off until hot water usage is detected again.

Exercise Function — While in vacation mode the pump will cycle on once every 7 days and run for 10 seconds to prevent any corrosion or scale buildup.

Factory Installed 6' Line Cord
Remote Sensor Included

Optional IFC® (Integral Flow Check)
Unmatched Reliability-Maintenance Free

Water Conservation — The average residence can save up to 12,000 gallons of water per year—water that normally goes down the drain while waiting for hot water.

Comfort and Convenience — Once the pump is set to the desired operating mode it never needs to be set again. Hot water is always available in seconds.

Efficiency — Smart/Pulse operation maximizes hot water comfort and energy savings.

Reliability — SmartPlus provides quiet operation and industry leading electronics with Taco 006 and 008 circulators for proven performance & dependability.

3 Year Warranty
LED Indicator lights

- GREEN — Power
- YELLOW — Mode
- RED — Error code diagnostics



SmartPlus®

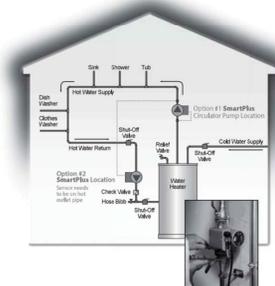


The Problem: Waiting for Hot Water
It's a common problem: turn on the faucet or shower for hot water, then wait for it to arrive. In fact, the wait can be up to two minutes in larger homes with multiple bathrooms and long runs of pipe between the plumbing fixtures and the water heater! With a Taco SmartPlus circulator in place, there's no more wait. Instant hot water!

Estimated Annual Water Savings

Pipe Type	Hot Water Supply Length (ft.)	Pipe Water Volume (gallons)	Daily Water Volume (gallons)	Annual Water Volume Saved (gallons)
1/2" Copper Type "L"	100	1.7	12	4,400
	150	2.6	18	6,600
	200	3.4	24	8,800
3/4" Copper Type "L"	100	2.5	18	11,000
	150	3.8	27	16,500
	200	5.0	36	22,000

*Assumes average of 10 trips per day



Energy Down The Drain
Of course, all that "waiting water" contains some heat energy (BTUs), even if it's only room temperature. Wasting those BTUs and starting over with fresh, cold water to heat up requires even more heat energy. So in addition to wasting water, millions of BTUs and energy dollars are wasted, too.

How a Domestic Hot Water Recirculation System Works
A standard DHW system requires a dedicated return line from the furthest fixture back to the water heater. The return line is connected to a tee at the tank drain valve or to the tank's cold water supply line. A Taco SmartPlus circulator pump is installed on the hot water supply line, or on the hot water return line, and controlled by the SmartPlus electronic control board.

How the SmartPlus Circulator Works
The SmartPlus circulator has a mode select toggle switch on the electronic control board that allows for 2 operation modes. "Pulse" or "Smart" mode can be selected using the toggle switch located on the

Waiting Means Wasting
Waiting for hot water sends millions of gallons of cooled water down the drain each year. In fact, an average family of four wastes up to 12,000 gallons of water each year waiting for hot water.* Water conservation is so important that many US states and municipalities routinely impose watering bans and offer rebate incentives to help conserve this natural resource.

*Source: Dept. of Energy

SmartPlus®

HOT WATER RECIRCULATION
The smart way to instant hot water comfort.



Patent# US 8, 594, 853 B2
UL US NSF



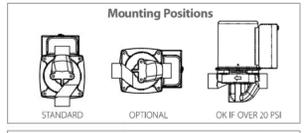
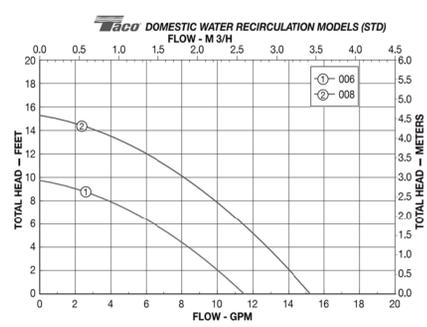
Effective Date: 03/31/17
Printed in USA



©Taco Catalog # 100-97
Supersedes: 10/20/15

Submittal Data # 101-54
Supersedes: 10/20/15
Effective Date: 03/31/17

Performance Field Information - 60 Hz



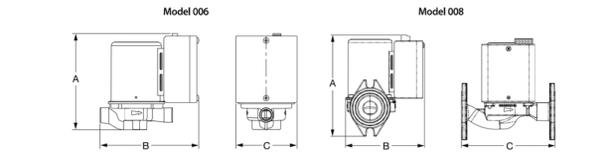
- Model Nomenclature**
- IQ — SmartPlus
 - B — Bronze
 - BC — Bronze, Panel Mount Tap
 - ST — Stainless Steel, 3/4" FNPT
 - SF — Stainless Steel, Flanged
 - IFC — Integral Flow Check

Performance Data

Model	Flow Range	Head Range
006	0-11.5 GPM	0-9.5 Feet
008	0-15 GPM	0-15 Feet
006-IFC	0-9 GPM	0-8.5 Feet
008-IFC	0-13 GPM	0-14.5 Feet

Electrical Data

Model	Volts	Hz	Ph	Amps	RPM	HP
006	115	60	1	0.52	3250	1/40
008				0.84		1/25



Model	Connection	Casing	A		B		C		Ship Wt.	
			In.	mm.	In.	mm.	In.	mm.	lbs.	kg
006-IB4	3/4" Sweat	Bronze	6-1/2	165	6	152	3-3/4	95	70	3.2
006-IB4C4	1/2" Sweat									
006-IB4C7-IFC	3/4" Sweat									
006-IB4C7-IFC	1/2" Sweat	Stainless Steel	6-1/2	165	6-1/2	140	6-1/2	165	80	3.6
006-IB4ST4	3/4" FNPT									
008-IB4SF6	Flanged									
008-IB4SF6-IFC	Flanged									



Taco Inc., 1160 Cranston Street, Cranston, RI 02920 / (401) 942-8000 / Fax (401) 942-2360
Taco (Canada) Ltd., 8450 Lawson Road, Unit #3, Milton, Ontario L9T 0J8 / (905) 564-9422 / Fax (905) 564-9436

www.TacoComfort.com

Choosing the Correct SmartPlus Circulator for the Job

Pump Selection Charts
This information is provided as a guide only. Find the table below that best describes the design you plan to use. Select the circulator based on the supply and return pipe size, pipe line length, and circulator model. Do not oversize the pump or high velocity noise and erosion corrosion of the system piping may result.

1/2" Supply and Return Lines

Model Number	Supply Pipe Maximum Length (ft.)	Total Maximum Pipe Length (ft.)
006	100	250
008	250	450
006-IFC*	100	250
008-IFC*	250	450

3/4" Supply and Return Lines

Model Number	Supply Pipe Maximum Length (ft.)	Total Maximum Pipe Length (ft.)
006	150	300
008	300	600
006-IFC*	150	300
008-IFC*	300	600

Assumptions
Flow = 1 GPM
Max. Velocity = 3 ft./sec.
Allowances have been added for pressure drop of other typical system components
Type L Copper Tubing
Supply & Return Piping are equal in length



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TABLE C404.5.1 (2020 NYCECC COMMERCIAL BUILDING) PIPING VOLUME AND MAXIMUM PIPING LENGTHS

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

TABULAR ENERGY ANALYSIS (2020 ENERGY CONSERVATION CODE. CHAPTER C4 COMMERCIAL ENERGY EFFICIENCY)

NYCECC CITATION	PROVISION	ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE	SUPPORTING DOCUMENTATION
SERVICE WATER					
C403.11.3, C404, Table C404.2	Service water-heating equipment performance efficiency.	Electric water heater HWH A.O.Smith PNS-50 (46 Gallon Capacity)	0.92 EF Electric input: 4500W/4500W	ENERGY FACTOR = 0.92	See drawing PL-003.00, PL-005.00
C404.4	Insulation of piping	Piping from a water heater to the termination of the heated water fixture supply pipe shall be insulated in accordance with Table C403.11.3	All piping insulated as per requirements	Piping from a water heater shall be thermally insulated in accordance with Table C403.2.10	See table of minimum pipe insulation thickness, drawing PL-003.00
C404.5.1	Efficient Heated Water Supply Piping	Maximum allowable pipe length method	Maximum piping length for public lavatory faucet 1/2" = 2'	Maximum piping length for public lavatory faucet 1/2" = 2' Table C404.5.1	See table, drawing PL-003.00
C404.6	Circulation systems	Circulating pumps	Buil-in recirculation system included on all A.O.Smith HWH models	Automatic circulating hot water system pumps and heat trace to be turned off manually or automatically when hot water system is not in operation	See drawing PL-001.00, PL-003.00, PL-008.00

PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE – COMMERCIAL BUILDING NYCECC-2020

INSPECTION/TEST	PERIODIC (MINIMUM)	REFERENCE STANDARD (SEE ECC CHAPTER 6) OR OTHER CRITERIA	ECC OR OTHER CITATION
IIB MECHANICAL AND SERVICE WATER HEATING INSPECTIONS			
IIB3	HVAC AND SERVICE WATER HEATING EQUIPMENT	PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS
IIB4	HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS	AFTER INSTALLATION AND PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS
IIB5	HVAC-R AND SERVICE WATER PIPING DESIGN AND INSULATION	AFTER INSTALLATION AND PRIOR TO CLOSING SHAFTS, CEILING AND WALLS	APPROVED CONSTRUCTION DOCUMENTS
IID OTHER			
IID1	MAINTENANCE INFORMATION	PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS

TABLE C403.11.3 (2020 NYCECC, COMMERCIAL ENERGY EFFICIENCY) MINIMUM PIPE INSULATION THICKNESS (THICKNESS IN INCHES) HOT WATER SYSTEMS & DOMESTIC WATER SYSTEMS

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (INCHES)					MATERIAL	STANDARD
	CONDUCTIVITY BTU-IN/(H·FT²·°F)	MEAN RATING TEMPERATURE, °F	< 1	1 to < 1 1/2	1 1/2 to < 4	4 to < 8	≤ 8		
105 -140	0.21 -0.28	100	1.0	1.0	1.5	1.5	1.5	Copper or copper-alloy tubing (TYPE K, L)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447
40 -60	0.21 -0.27	75	0.5	0.5	1.0	1.0	1.0		

PROFESSIONAL STATEMENT
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH NYCECC-2020.

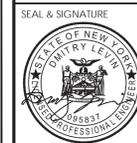
Michael Rahimi
APPROVED
Date: 08/11/2022

1 03/15/22 NEW CELLAR PLAN
No. DATE DESCRIPTION

PROJECT
920 METROPOLITAN AVENUE, BROOKLYN, NY 11211

DRAWING TITLE
PLUMBING ENERGY ANALYSIS.

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B00715872-S7

SEAL & SIGNATURE


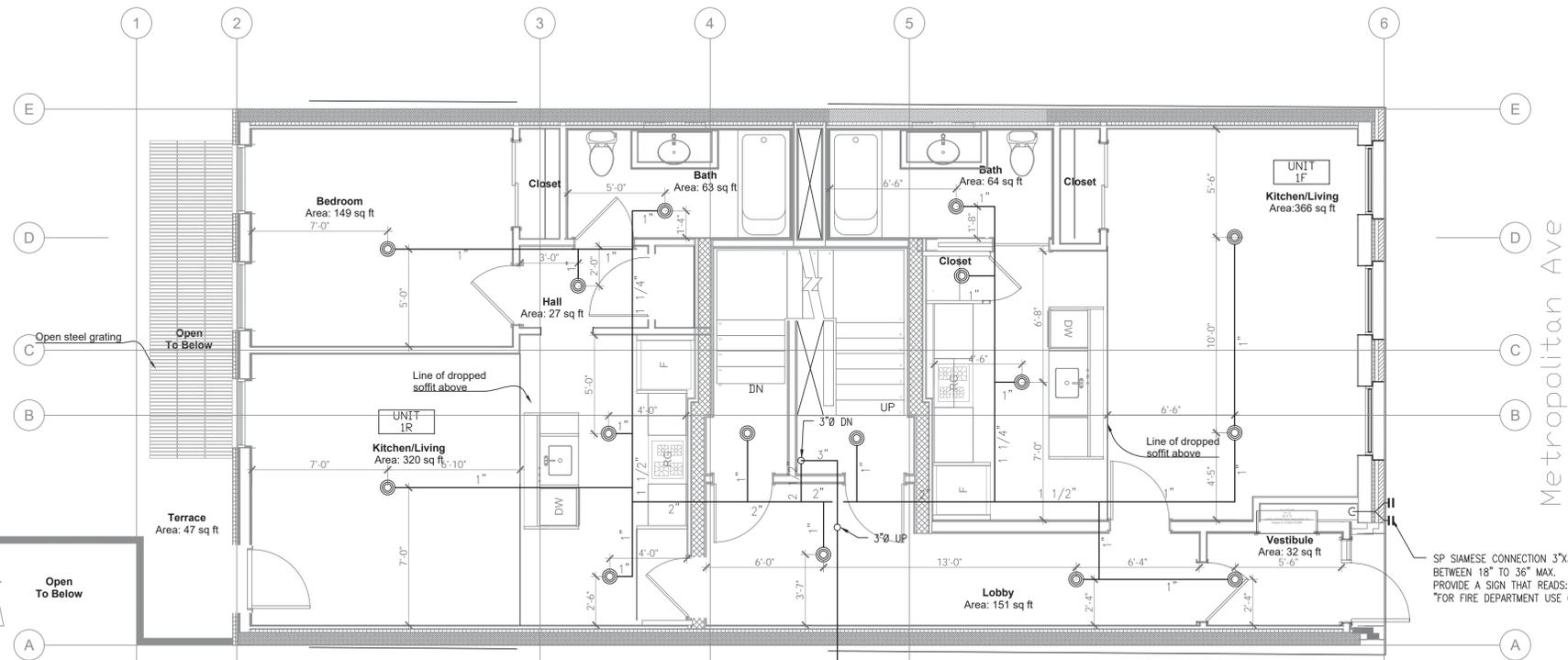
DATE: 07-20-22
DRAWN BY: V.A.
CHK BY: D.L.
DWG. NO.: **EN-001.00**
CAD FILE No. 01 OF 01

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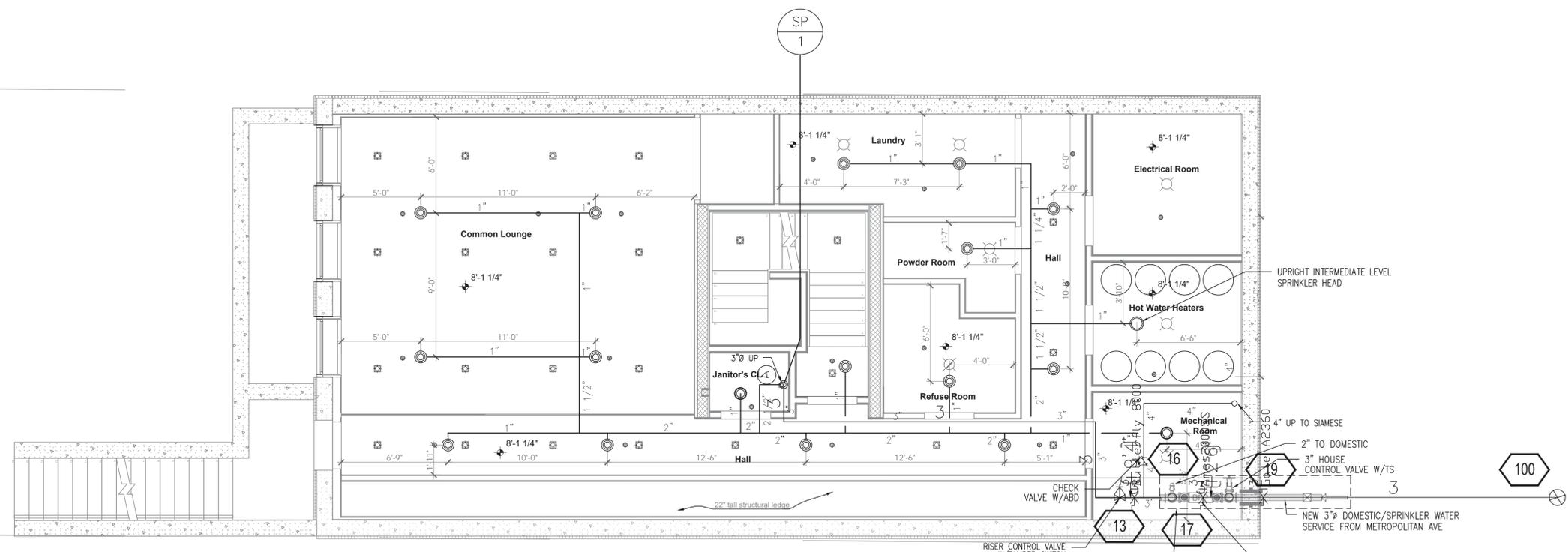


1ST FLOOR PLAN
SCALE: 1/4"=1'-0"

OCCUPANCY GROUP R-2
ORDINARY HAZARD: 225 SF PER SPRINKLER HEAD
SPACING BETWEEN SPRINKLER HEADS: 15' MAX

TOTAL:
16 CONCEALED SPRINKLER HEADS

NYC
APPROVED
Date: 6/14/2022



CELLAR FLOOR PLAN
SCALE: 1/4"=1'-0"

OCCUPANCY GROUP R-2
ORDINARY HAZARD: 225 SF PER SPRINKLER HEAD
SPACING BETWEEN SPRINKLER HEADS: 15' MAX

TOTAL:
15 CONCEALED SPRINKLER HEADS
2 PENDENT SPRINKLER HEADS
1 UPRIGHT INTERMEDIATE LEVEL SPRINKLER HEAD

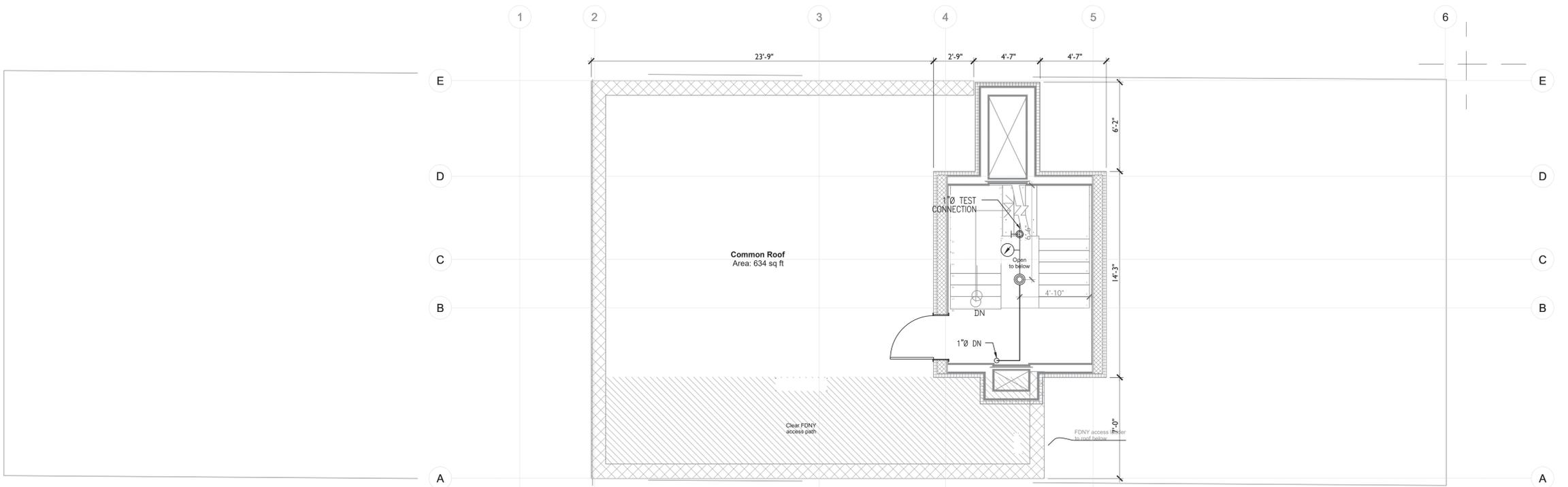
FOR SPRINKLER USE ONLY

UNLESS NOTED OTHERWISE	
CEILING ELEVATION:	
MAIN PIPE ELEVATION:	9'-4"
BRANCH PIPE ELEVATION:	9'-4"
ELEVATION FROM JOB REF:	-10'-0"

No.	DATE	DESCRIPTION
PROJECT		
920 Metropolitan Avenue, Brooklyn, NY 11211		
DRAWING TITLE		
CELLAR & 1ST FLOOR PLANS		
DOB NOW JOB NO.		
B00715872-S4		

SEAL & SIGNATURE	DATE	11-17-21
DRAWN BY: I.K.	CHK BY: D.L.	
DWG. NO.	SP-002.00	
CAD FILE NO.	PAGE	

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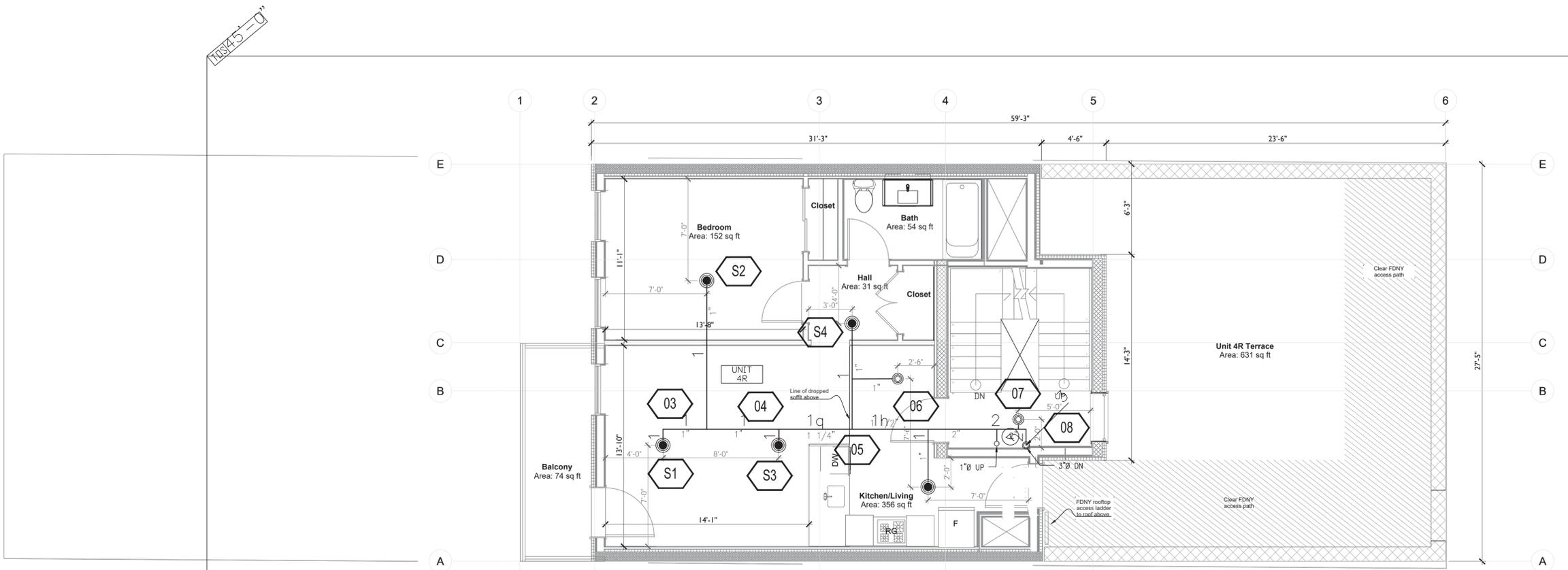


ROOF PLAN
SCALE: 1/4"=1'-0"

OCCUPANCY GROUP R-2
ORDINARY HAZARD: 225 SF PER SPRINKLER HEAD
SPACING BETWEEN SPRINKLER HEADS: 15' MAX

TOTAL:
1 CONCEALED SPRINKLER HEAD

NYC
APPROVED
Date: 06/14/2022



4TH FLOOR PLAN
SCALE: 1/4"=1'-0"

OCCUPANCY GROUP R-2
ORDINARY HAZARD: 225 SF PER SPRINKLER HEAD
SPACING BETWEEN SPRINKLER HEADS: 15' MAX

TOTAL:
7 CONCEALED SPRINKLER HEADS

FOR SPRINKLER USE ONLY

4th Fl

UNLESS NOTED OTHERWISE	
CEILING ELEVATION:	9'
MAIN PIPE ELEVATION:	9'6"
BRANCH PIPE ELEVATION:	9'6"
ELEVATION FROM JOB REF:	34'-0"

No.	DATE	DESCRIPTION
PROJECT		
920 Metropolitan Avenue, Brooklyn, NY 11211		
DRAWING TITLE		
4TH & ROOF FLOOR PLANS		
DOB NOW JOB No.		
B00715872-S4		
SEAL & SIGNATURE	DATE:	11-17-21
DRAWN BY: I.K.	CHK BY: D.L.	
DWG. NO. SP-004.00		
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