

PROJECT **32**
32 EAST 29TH STREET
BROOKLYN, NY 11226

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ABBREVIATIONS

A.C.	AIR CONDITIONING
ACT	ACOUSTIC CEILING TILE
A.D.	AREA DRAIN
ADJ.	ADJACENT
A.F.F.	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
A.N.	AS NOTED
BC	BOTTOM OF CURB
BLDG.	BUILDING
BLK	BLOCK
BM.	BEAM
BOTT.	BOTTOM
B.S.A.	BOARD OF STANDARD AND APPEALS
CAB.	CABINET
C.J.	CONSTRUCTION JOINT
CL.	CLOSET
CLG.	CEILING
COL.	COLUMN
COMM.	COMMUNICATION
CONC.	CONCRETE
CONT.	CONTINUOUS
CPT.	CARPET
C.R.	CEILING REGISTER
C.S.	CAST STONE
C.T.	CERAMIC TILE
DET.	DETAIL
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DN.	DOWN
DWG.	DRAWING
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRICAL
EQ.	EQUAL
EXIST.	EXISTING
F.A.I.	FRESH AIR INTAKE
F.D.	FLOOR DRAIN
F.F.	FINISHED FLOOR
FIN.	FINISH
FL.	FLOOR
F.P.	FIRE PROOF
F.P.S.C.	FIRE PROOF SELF CLOSING FOOT
FT.	FOOT
GALV.	GALVANIZED
GA.	GAUGE
GL.	GLASS
G.W.B.	GYPSUM WALL BOARD
H.C.	HUNG CEILING
H.M.	HOLLOW METAL
H.R.	HANDRAIL
H.R.	HOUR
H.V.A.C.	HEATING, VENTILATION & AIR CONDITIONING
I.D.	INSIDE DIAMETER
INCL.	INCLUDING
INSUL.	INSULATION
JT.	JOINT
LAM.	LAMINATE
LAV.	LAVATORY
MAX.	MAXIMUM
MET.	METAL
M.E.A.	MATERIAL EQUIPMENT & ASSEMBLIES
MECH.	MECHANICAL
MIN.	MINIMUM
M.L.	METAL LOUVER
M.O.	MASONRY OPENING
MTL.	METAL
M.V.	MECHANICAL VENTILATION
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPNG.	OPENING
O.H.	OPPOSITE HAND
PART.	PARTITION
P.E.	PASSENGER ELEVATOR
P.L.	PLASTIC LAMINATE
PT.	PAINTED
Q.T.	QUARRY TILE
RESIL.	RESILIENT
REQ'D	REQUIRED
R.D.	ROOF DRAIN
RM.	ROOM
S.	SINK
S.F.	SQUARE FOOT
S.S.	SLOP SINK
S.T.	STONE TILE
S.T.C.	SOUND TRANSMISSION CLASS
STL.	STEEL
STOR.	STORAGE
STN. STL.	STAINLESS STEEL
TC	TOP OF CURB
T.O.W.	TOP OF WALL
T.O.S.	TOP OF SLAB
T.R.	TOP REGISTER
TYP.	TYPICAL
UR	URINAL
U.L.	UNDERWRITERS LABORATORIES
U.O.N.	UNLESS OTHERWISE NOTED
V.C.J.	VERTICAL CONTROL JOINT
VEST.	VESTIBULE
V.I.F.	VERIFY IN FIELD
V.C.T.	VINYL COMPOSITION TILE
V.W.C.	VINYL WALL COVERING
W.C.	WATER CLOSET
WD.	WOOD

DRAWING NOTATIONS

	BUILDING SECTION TAG
	SECTION DETAIL LETTER
	DRAWING SHEET NUMBER
	WALL SECTION TAG
	WALL SECTION DETAIL NUMBER
	DRAWING SHEET NUMBER
	ENLARGED DETAIL TAG
	DETAIL NUMBER
	DRAWING SHEET NUMBER
	BUILDING ELEVATION TAG
	SECTION DETAIL NUMBER
	DRAWING SHEET NUMBER
	COLUMN GRID TAG
	COLUMN LINE DESIGNATION
	REVISION TAG
	ELEVATION TAG
	FLOOR DESIGNATION
	FINISH ELEVATION
	STRUCTURAL ELEVATION (GEODESIC/ DATUM ELEVATION)
	5' HANDICAP TURNING RADIUS
	APARTMENT INFORMATION TAG
	UNIT DESIGNATION
	# OF BEDROOMS
	UNIT SQUARE FOOTAGE
	PARTITION TYPE TAG
	WINDOW SCHEDULE TAG
	SEE WINDOW SCHEDULE FOR DETAILED INFORMATION
	DOOR SCHEDULE TAG
	DOOR TYPE
	DOOR WIDTH
	SEE DOOR SCHEDULE FOR INFO.
	COMBINED SMOKE AND CARBON MONOXIDE DETECTOR
	HARDWIRED SMOKE AND CARBON MONOXIDE DETECTORS SHALL BE INSTALLED IN COMPLIANCE WITH BC 907.2.8.3 & BC 908.7. IT SHALL BE PROVIDED IN EACH UNIT WITHIN 15'-0" OF THE PRIMARY ENTRANCE OF EACH BEDROOM. IT SHALL COMPLY WITH UL 2034 AND BE OF A TYPE THAT EMITS AN AUDIBLE NOTIFICATION AT THE EXPIRATION OF THE USEFUL LIFE OF SUCH ALARM. THE ALARM SHALL BE REPLACED PRIOR TO THE MANUFACTURERS SUGGESTED USEFUL LIFE OF THE ALARM.
	EXIT SIGNS
	EXIT SIGN, WALL MOUNTED IN ACCORDANCE WITH BC 1011
	EXIT SIGN WITH DIRECTIONAL SIGNALS, IN ACCORDANCE WITH BC 1011
	EXIT SIGN WITH EMERGENCY LIGHT

LEGEND OF MATERIALS

	CONCRETE MASONRY UNITS
	NEW PARTITION
	NEW FIRE RATED PARTITION BETWEEN APARTMENTS AND PUBLIC CORRIDOR
	EXISTING CONSTRUCTION TO BE REMOVED
	REINFORCED CONCRETE WALL (PLAN)
	EXISTING WALL TO REMAIN
	EARTH
	GRAVEL
	CONCRETE
	GLASS (ELEV.)
	GLASS (PLAN/SECTION)
	BATT INSULATION
	RIGID INSULATION
	PLYWOOD
	WOOD (PLAN)

SPECIAL INSPECTIONS

INDICATES REQUIRED INSPECTION
ALL SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED TO THE DEPARTMENT OF BUILDINGS & TO THE ARCHITECT OF RECORD.

SPECIAL INSPECTION ITEMS	CODE/ SECTION
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 1704.4
CONCRETE - PRECAST	BC 1704.4
CONCRETE - PRESTRESSED	BC 1704.4
MASONRY	BC 1704.5
WOOD - INSTALLATION OF HIGH-LOAD DIAPHRAGMS	BC 1704.6.1
WOOD - INSTALLATION OF METAL-PLATE-CONNECTED TRUSSED	BC 1704.6.2
WOOD - INSTALLATION OF PREFABRICATED I-JOISTS	BC 1704.6.3
SUBGRADE INSPECTION	BC 1704.7.1
SUBSURFACE CONDITIONS - FILL PLACEMENT & IN-PLACE DENSITY	BC 1704.7.2, BC 1704.7.3
SUBSURFACE INVESTIGATIONS (BORINGS/ TEST PITS)	TR-4 BC 1704.7.4
DEEP FOUNDATION ELEMENTS	TR-5 BC 1704.8
HELICAL PILES (BB # 2014-020)	TR-5H BC 1704.8.5
VERTICAL MASONRY FOUNDATION ELEMENTS	BC 1704.9
WALL PANELS, CURTAIN WALLS, AND VENEERS	BC 1704.10
SPRAYED FIRE RESISTANT MATERIALS	BC 1704.11
MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS	BC 1704.12
EXTERIOR INSULATION FINISH SYSTEMS (EIFS)	BC 1704.13
ALTERNATIVE MATERIALS - OTCR BUILDINGS BULLETIN # _____	BC 1704.14
SMOKE CONTROL SYSTEMS	BC 1704.15
MECHANICAL SYSTEMS	BC 1704.16
FUEL-OIL STORAGE AND FUEL-OIL PIPING SYSTEMS	BC 1704.17
HIGH-PRESSURE STEAM PIPING (WELDING)	BC 1704.18
HIGH TEMPERATURE HOT WATER PIPING (WELDING)	BC 1704.18
HIGH-PRESSURE FUEL-GAS PIPING (WELDING)	BC 1704.19
STRUCTURAL STABILITY - EXISTING BUILDINGS	BC 1704.20.1
EXCAVATION - SHEETING, SHORING, AND BRACING	BC 1704.20.2
UNDERPINNING	BC 1704.20.3, BC1814
MECHANICAL DEMOLITION	BC 1704.20.4
RAISING AND MOVING OF A BUILDING	BC 1704.20.5
SOIL PERCOLATION TEST - PRIVATE ON-SITE STORM WATER DRAINAGE DISPOSAL SYSTEMS, AND DETENTION FACILITIES	BC 1704.21.1-2
PRIVATE ON-SITE STORM WATER DRAINAGE DISPOSAL SYSTEMS AND DETENTION FACILITIES INSTALLATION	BC 1704.21.2
GENERAL NOTE	
INDIVIDUAL ON-SITE PRIVATE SEWAGE DISPOSAL SYSTEMS INSTALLATION	BC 1704.22
SOIL PERCOLATION TEST - INDIVIDUAL ON-SITE PRIVATE SEWAGE DISPOSAL SYSTEMS	BC 1704.22
SPRINKLER SYSTEMS	BC 1704.23
STANDPIPE SYSTEMS	BC 1704.24
HEATING SYSTEMS	BC 1704.25
CHIMNEYS	BC 1704.26
FIRE-RESISTANT PENETRATIONS AND JOINTS	BC 1704.27
ALUMINUM WELDING	BC 1704.28
FLOOD ZONE COMPLIANCE (ATTACH FEMA ELEVATION/ DRY FLOODPROOFING CERTIFICATE WHERE APPLICABLE)	BC 1704.29, BC G105
LUMINOUS EGRESS PATH MARKINGS	TR-7 BC 1704.30, BC 1024.8
EMERGENCY AND STANDBY POWER SYSTEMS (GENERATORS)	BC 1704.31
POST-INSTALLED ANCHORS (BB# 2014-018, 2014-019)	BC 1704.32
SEISMIC ISOLATION SYSTEMS	BC 1707.8
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 ITEMS	CODE/ SECTION
PRELIMINARY	28-116.2.1, BC 110.2
FOOTING AND FOUNDATION	BC 110.3.1
LOWEST FLOOR ELEVATION	BC 110.3.2
STRUCTURAL WOOD FRAME	BC 110.3.3
ENERGY CODE COMPLIANCE INSPECTIONS	TR-8 BC 110.3.5
FIRE-RESISTANCE RATED CONSTRUCTION	BC 110.3.4
PUBLIC ASSEMBLY EMERGENCY LIGHTING	28-116.2.2
FINAL	28-116.2.4.2, BC 110.5, DIR.14 OF 1975,1RCNY 101-10

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ENERGY CODE INSPECTIONS

PROGRESS INSPECTIONS	TABLE REF. IN 1RCNY 5000-01(h) (1)and (2)
PROTECTION OF EXPOSED FOUNDATION INSULATION	(IA1),(IA1)
INSULATION PLACEMENT AND R VALUES	(IA2),(IA2)
FENESTRATION AND DOOR U-FACTOR AND PRODUCT RATINGS	(IA3),(IA3)
FENESTRATION AIR LEAKAGE	(IA4),(IA4)
FENESTRATION AREAS	(IA5),(IA5)
AIR BARRIER - VISUAL INSPECTION	(IA6),(IA6)
AIR BARRIER - TESTING	(IA7),(IA7)
AIR BARRIER CONTINUITY PLAN TESTING/INSPECTION	(IA8)
VESTIBULES	(IA9)
FIREPLACES	(IB1),(IB1)
VENTILATION AND AIR DISTRIBUTION SYSTEM	(IB2)
SHUTOFF DAMPERS	(IB2)
HVAC-R AND SERVICE WATER HEATING EQUIPMENT	(IB3),(IB3)
HVAC-R AND SERVICE WATER HEATING SYSTEM CONTROLS	(IB4),(IB4)
HVAC-R AND SERVICE WATER PIPING DESIGN AND INSULATION	(IB5),(IB5)
DUCT LEAKAGE TESTING, INSULATION AND DESIGN	(IB6),(IB6)
METERING	(IC1),(IC1)
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INTERIOR LIGHTING POWER	(IC2),(IC2)
EXTERIOR LIGHTING POWER	(IC4)
LIGHTING CONTROLS	(IC5)
ELECTRICAL MOTORS AND ELEVATORS	(IC6)
MAINTENANCE INFORMATION	(ID1),(ID1)
PERMANENT CERTIFICATE	(ID2)
ELECTRIC VEHICLE SERVICE EQUIPMENT REQUIREMENTS	(ID3)

THIS PROJECT DOES NOT REQUIRE COMMISSIONING. ALL HVAC EQUIPMENT AND SYSTEMS INSTALLED SHALL NOT REQUIRE COMMISSIONING REPORT. START UP AND PROGRAMMING IN THE FIELD SHALL BE PART OF THE BALANCING PROCESS. COOLING LOAD: 192,000 BTU/HR HEATING LOAD: 384,894 BTU/HR

PROFESSIONAL COMPLIANCE STATEMENT

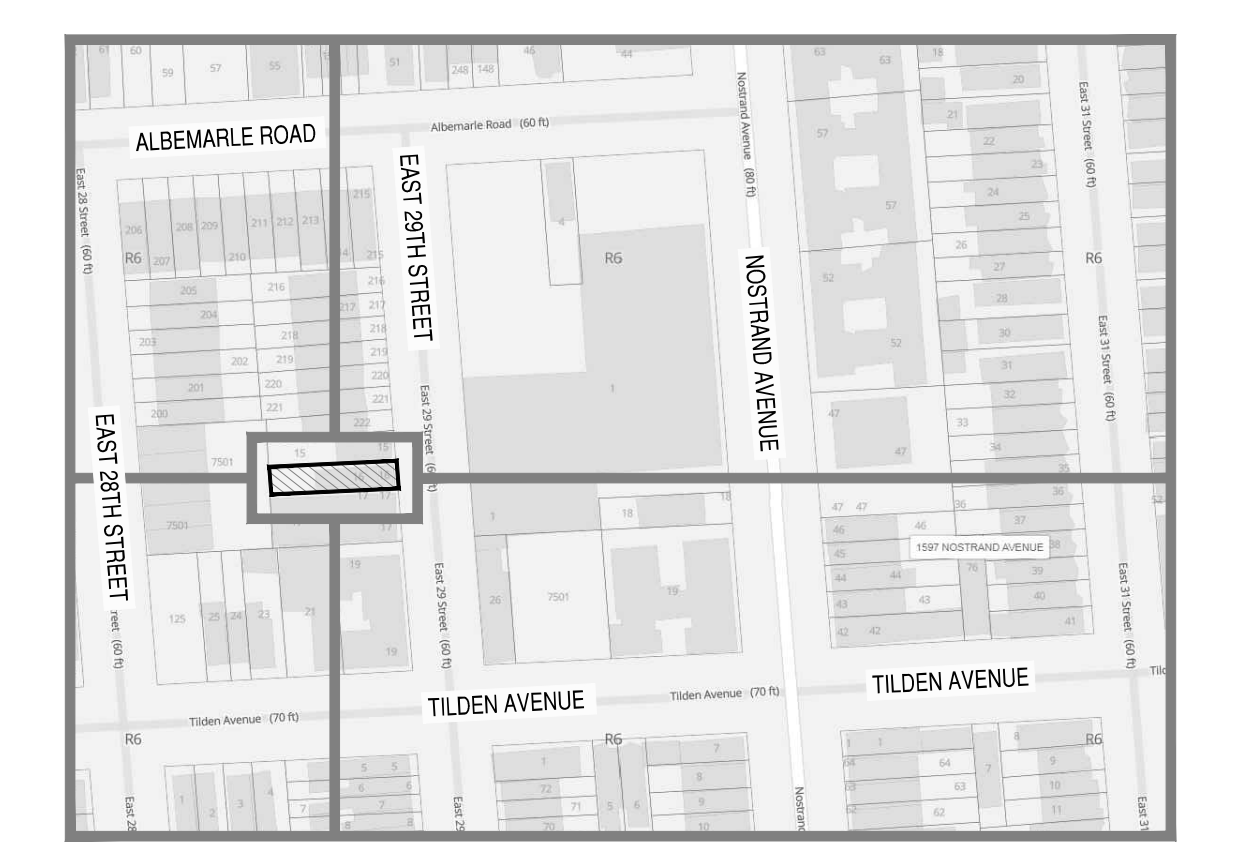
ENERGY CODE COMPLIANCE STATEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, ALL WORK UNDER THIS APPLICATION IS IN COMPLIANCE WITH THE 2020 NYC ENERGY CONSERVATION CODE, CHAPTER C4.

PROJECT INFORMATION

SCOPE OF WORK	NEW BUILDING
ZONING INFORMATION	ADDRESS: 32 EAST 29TH ST, BROOKLYN 11226 BLOCK: 5130 LOT: 16 MAP: 23a DISTRICT: R6
BUILDING CODE INFORMATION	APPLICABLE CODE: 2014 BUILDING CODE OF NYC CONSTRUCTION CLASS: I-B (NON-COMBUSTIBLE 2 HR. RATED) OCCUPANCY CLASS: R-2 (MULT-DWELLING) BUILDING HEIGHT: 44'-0" # OF STORIES: 4 STORIES FIRE PROTECTION: FULLY SPRINKLER FIRE DISTRICT: INSIDE FLOOD ZONE: PROPERTY IS NOT IN A SPECIAL FLOOD ZONE HAZARD AREA AS PER EFFECTIVE 2007 FIRM MAP AND 2013 PRELIMINARY MAP NOTE: THIS PROJECT DOES NOT INCLUDE MODULAR CONSTRUCTION THIS PROPERTY IS NOT WITHIN 200 FEET OF MTA

LOCATION MAP



03/05/2020	DOB SUBMISSION
11/25/2020	DOB SUBMISSION
10/22/2020	DOB SUBMISSION

PROJECT 32 EAST 29TH STREET
BROOKLYN, NY 11226

DRAWING TITLE
PROJECT INFO./ LEGENDS
SPECIAL INSPECTIONS/
DRAWING INDEX/ LOCATION MAP

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PAGE NO. 01 OF 33
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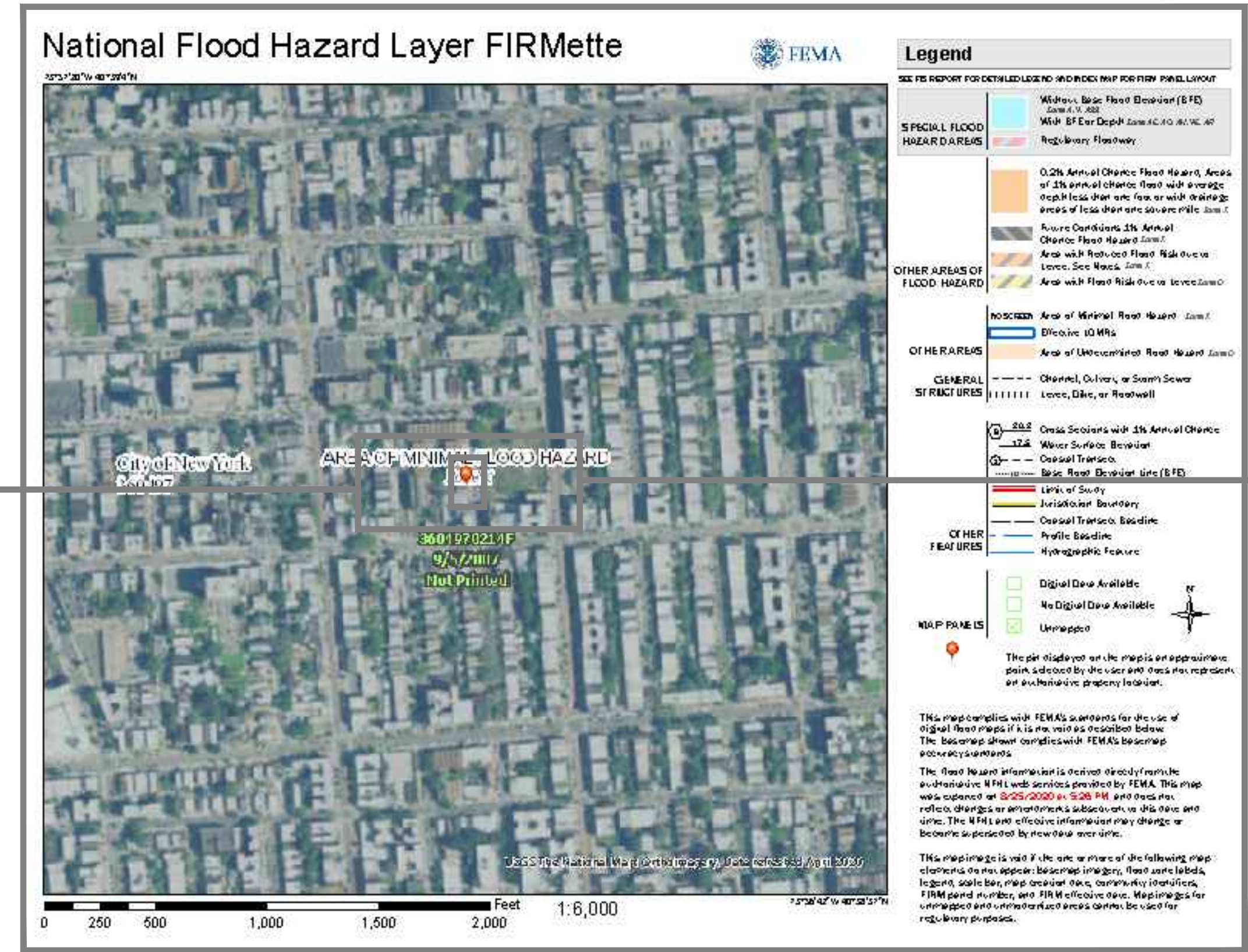
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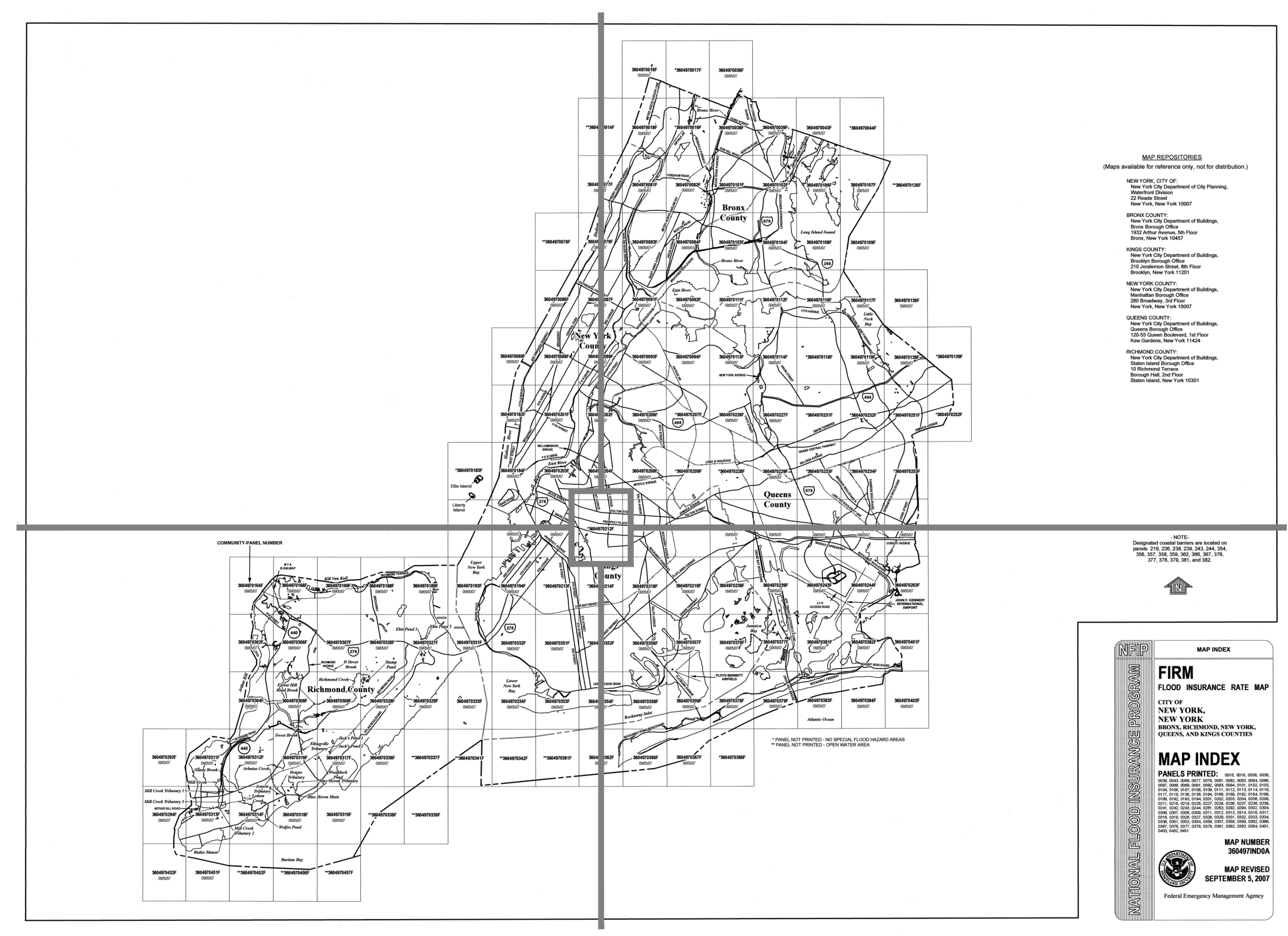
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NOTE:
 PROPERTY IS NOT IN A SPECIAL FLOOD ZONE HAZARD AREA AS PER EFFECTIVE
 2007 FIRM MAP AND 2013 PRELIMINARY MAP

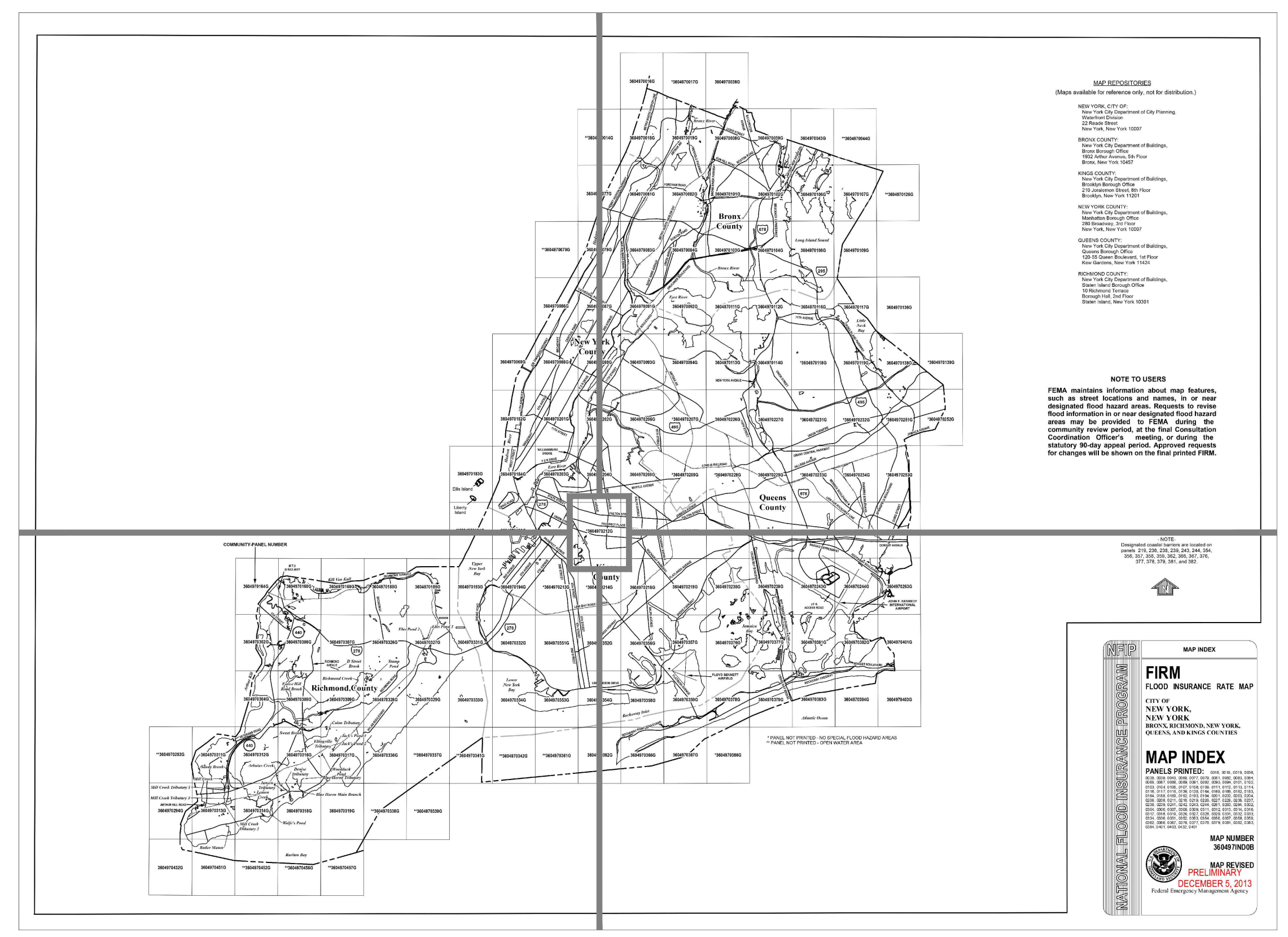


FEMA MAP 3604970216F
 *PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREA

FIRM INDEX - 2007



FIRM INDEX - 2013



Danalis Nazario
 Buildings
 APPROVED
 Under Directive 2 of 1975
 Date: 03/05/2021
 NYC Development Hub

03/05/2020	DOB SUBMISSION
11/25/2020	DOB SUBMISSION
10/22/2020	DOB SUBMISSION

PROJECT
 32 EAST 29TH STREET
 BROOKLYN, NY 11226

DRAWING TITLE
FEMA MAPS

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REGISTERED ARCHITECT
 ROBERT BIANCHI
 STATE OF NEW YORK
 33616

D.O.B. #

321598268

PROPERTY IS NOT IN A SPECIAL FLOOD ZONE HAZARD AREA

BUILDING CODE INFORMATION

**CHAPTER 3
USE AND OCCUPANCY CLASSIFICATION**

**SECTION BC 302
CLASSIFICATION**

Proposed/ Provided:
Occupancy Class: Residential: Group R-2

**CHAPTER 5
GENERAL BUILDING HEIGHTS AND AREAS; SEPARATION OF OCCUPANCIES**

Proposed/ Provided:
Building Height: 44 ft
Building Area: 6,772.75 sf
Type of Construction: IB (Fully Sprinklered)

**TABLE 503
ALLOWABLE BUILDING HEIGHTS AND AREAS**

Building height limitations shown in feet above grade plane. Story limitations shown as stories above grade plane.
Building area limitations shown in square feet, as determined by the definition of "Area, building," per story.

GROUP	HEIGHT (FT) HEIGHT(S)	TYPE OF CONSTRUCTION									
		TYPE I		TYPE II		TYPE III		TYPE IV	TYPE V		
		A	B	A	B	A	B	HT	A	B	
R-2	S	UL	160	65	55	65	55	65	50	40	
	A	UL	UL	6	NP	6	3	6	NP	NP	
		UL	UL	UL	NP	24,000	5,600	20,500	NP	NP	

**SECTION BC 509
INCIDENTAL USES**

509.1 General. Incidental uses listed in Table 509 and located within single occupancy or mixed occupancy buildings shall comply with the provisions of this section. Incidental uses are ancillary functions associated with a given occupancy that generally pose a greater level of risk to that occupancy and are limited to those uses listed in Table 509.

Exception: Incidental uses within and serving a dwelling unit are not required to comply with this section.

**TABLE 509
INCIDENTAL USES**

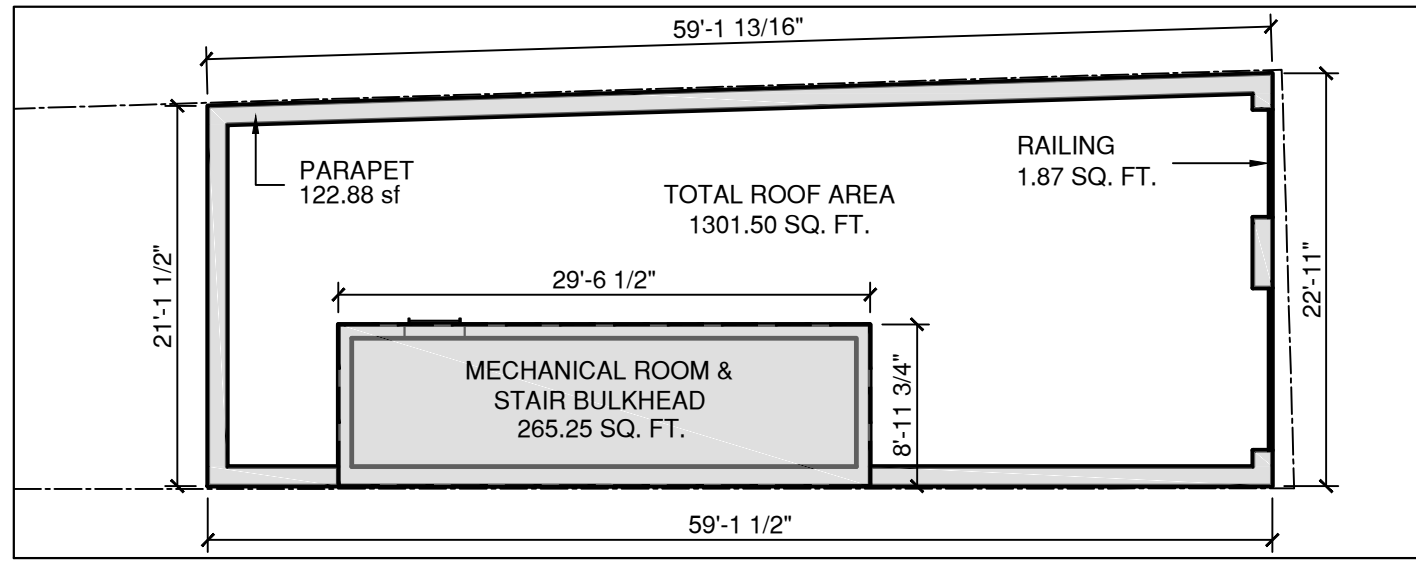
ROOM OR AREA	SEPARATION AND/OR PROTECTION
Furnace room where any piece of equipment is over 350,000 Btu per hour input	2 hour, or 1 hour and provide automatic sprinkler system ^a
Furnace room where any piece of equipment is over 350,000 Btu per hour input or less except in R-3 occupancy	1 hour or provide automatic sprinkler system ^a
Rooms with a high pressure steam or water boiler that exceeds 350,000 Btu per hour input	2 hour, or 1 hour and provide automatic fire-extinguishing system ^a
Rooms with a high pressure steam or water boiler that exceeds 350,000 Btu per hour input or less	1 hour or provide automatic sprinkler system ^a
Rooms that contain a low pressure steam or water boiler regardless of Btu per hour input	1 hour or provide automatic sprinkler system ^{a, b}
Refrigerant machinery room	1 hour or provide automatic sprinkler system
Incinerator Rooms	2 hours and automatic sprinkler system
Paint shops, not classified a Group H, located in occupancies other than Group F	2 hours; or 1 hour and provide automatic sprinkler system
Laboratories and vocational shops, not classified as Group H, located in a Group E or I-2 occupancy	1 hour or provide automatic sprinkler system
Laundry rooms over 100 square feet	1 hour or provide automatic sprinkler system
Group I-3 cells equipped with padded surfaces	1 hour
Waste and linen collection rooms located in either Group I-2 occupancies or ambulatory care facilities	1 hour
Waste and linen collection rooms over 100 square feet	1 hour or provide automatic sprinkler system
Stationary storage battery systems having liquid electrolyte capacity of more than 50 gallons for flooded lead-acid nickel cadmium or VRLA, or more than 1,000 pounds for lithium-ion and lithium metal polymer used for facility standby power, emergency power or uninterruptible power supplies	1 hour in group B, F, M, S and U occupancies; 2 hours in group A, E, I and R occupancies
Rooms containing fire pumps in non-high-rise buildings	2 hours; or 1 hour and provide automatic sprinkler system throughout the building
Rooms containing fire pumps in high-rise buildings	2 hours

a. Boilers serving more than one dwelling unit in multiple shall also comply with Section 65 of the New York State Multiple Dwelling Law
b. Sealed combustion direct vent boilers shall comply with Section 303 of the New York City Mechanical Code and Section 303 of the New York City Fuel Gas Code, as applicable
c. For mechanical and/or electrical equipment rooms not identified in this Table, see Section 508.1.
For SI: 1 square foot=0.0929 m², 1 pound per square inch (psi)=6.9kPa, 1 British thermal unit (Btu) per hour=0.293 watts, 1 horsepower=746 watts, 1 gallon=3.785L

Proposed/ Provided:
Bulkhead is less than 33.3% of the floor area of the roof therefore shall not be considered an additional story

Total Roof Area	1,301.50 sf
Mesh/Stair Bulkhead	265.25 sf
Parapet	122.88 sf
Railing	1.87 sf
Total roof structures	390.00 sf
Percent of roof structures	390.00 / 1,301.50 = 29.97% COMPLIES

504.3 Rooftop structures. Rooftop structures including but not limited to roof tanks and their supports, ventilating, air conditioning, combined heat and power systems and similar building service equipment, bulkheads, penthouses, greenhouses, chimneys, and parapet walls 4 feet (1219 mm) or less in height shall not be included in the building height of the building or considered an additional story unless the aggregate area of all such structures, exclusive of any solar thermal and solar (photovoltaic) collectors and/or panels and their supporting equipment, exceeds 33-1/3 percent of the area of the roof of the building upon which they are erected. Rooftop structures shall be constructed in accordance with Section 1509.



ROOFTOP STRUCTURE COMPLIANCE DIAGRAM

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

**CHAPTER 6
TYPES OF CONSTRUCTION**

**TABLE 601
FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (hours)**

BUILDING ELEMENT	TYPE I		TYPE II		TYPE III		TYPE IV		TYPE V ^j	
	A	B	A ^k	B	A ^k	B	HT	A ^k	B	
Primary structural frame (see Section 202)	3 ^h	2 ^h	1	0	1	0	HT	1	0	
Bearing Walls										
Exterior	3	2	1	0	2	2	2	1	0	
Interior	3 ^h	2 ^h	1	0	1	0	1/HT	1	0	
Nonbearing walls and partitions			See Table 602							
Exterior										
Nonbearing walls and partitions			See section 602.4.6							
Interior	0	0	0	0	0	0	HT	0	0	
Floor Construction and secondary members (see Section 202)	2	2	1	0	1	0	HT	1	0	
Roof construction and secondary members (see Section 202)	1 1/2 ^{b,c}	1 ^{b,c}	1 ^{b,c}	0 ^{b,c}	1 ^{b,c}	0	HT	1 ^{b,c}	0	

For SI: 1 foot = 304.8 mm.
a. Roof supports: Fire-resistance ratings of primary structural frame and bearing walls are permitted to be reduced by 1 hour where supporting a roof only.
b. 1. Except in Group F-1, H, M and S-1 occupancies, fire protection of structural members shall not be required, including protection of roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardant-treated wood members shall be allowed to be used for such unprotected members. 2. Except in Group F occupancies subject to regulation under Sections 264(1) and 264(2) of the New York State Labor Law, and in Group I-1, R-1, and R-2 occupancies, in Types I and II construction, fire-retardant-treated wood shall be allowed in buildings including girders and trusses as part of the roof construction when the building is: i. Type II construction of any height; or ii. Type I construction two stories or less; or when over two stories, the vertical distance from the upper floor to the roof is 20 feet or more.
c. Except in Group F occupancies subject to regulation under Sections 264(1) and 264(2) of the New York State Labor Law, and in Group I-1, R-1 and R-2 occupancies, heavy timber shall be allowed where a 1-hour or less fire-resistance rating is required.
d. An approved automatic sprinkler system in accordance with Section 903.3.1.1 shall be allowed to be substituted for 1-hour fire-resistance-rated construction, provided such system is not otherwise required by other provisions of the code or used for an allowable area increase in accordance with Section 506.3 or an allowable height increase in accordance with Section 504.2. The 1-hour substitution for the fire resistance of exterior walls shall not be permitted.
e. Not less than the fire-resistance rating required by other sections of this code.
f. Not less than the fire-resistance rating based on fire separation distance (see Table 602).
g. Not less than the fire-resistance rating as referenced in Section 704.10.
h. See note g of Table 602.
i. See Section 712.3 for additional requirements.
j. Type V construction is not permitted inside fire districts except as provided for in Section D105.1 of Appendix D.
k. See Section BC 403.2.1 for additional requirements for high-rise buildings.

**TABLE 602
FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE^{a, b, g, h}**

FIRE SEPARATION DISTANCE=X (feet)	TYPE OF CONSTRUCTION	OCCUPANCY GROUP H ⁱ	OCCUPANCY GROUP F-1, M, S-1 ⁱ	OCCUPANCY GROUP A, B, E, F-2, I, R, S-2, U ⁱ
X < 5 ^c	All	3	2	1
5 ≤ X < 10	IA	3	2	1
	Others	2	1	1
10 ≤ X < 30	IA, IB	2	1	1 ^d
	IIB, VB	1	0	0
	Others	1	1	1 ^d
X ≥ 30	All	0	0	0

For SI: 1 foot = 304.8 mm.
a. Load-bearing exterior walls shall also comply with the fire-resistance rating requirements of Table 601.
b. Group U when used as accessory to Group R-3 shall not be required to have a fire-resistance rating where the fire separation distance is 5 feet or more for free standing private garages in compliance with Section 406.1, and when the separation distance is 3 feet or more for other freestanding Group U buildings. For free standing private garages where the fire separation distance is less than 5 feet, refer to Section 406.1 for required fire-resistance rating for exterior walls.
c. See Section 706.1.1 for party walls.
d. Open parking garages complying with Section 406 shall not be required to have a fire resistance rating.
e. The fire-resistance rating of an exterior wall is determined based upon the fire separation distance of the exterior wall and the story in which the wall is located.
f. For special requirements for Group H occupancies, see Section 415.3.g. Inside the fire district, exterior load-bearing walls of Type II buildings shall have a fire-resistance rating not less than prescribed below:
X < 5 2 hours
5 ≤ X < 10 2 hours
10 ≤ X < 30 1 hour
X ≥ 30 As per table 602.
h. Inside the fire district, exterior nonload-bearing walls of Type II buildings shall have a fire-resistance rating not less than prescribed below:
X < 5 As per Table 602
5 ≤ X < 10 As per Table 602
10 ≤ X < 30 1 hour
X ≥ 30 As per Table 602.

**CHAPTER 7
FIRE-RESISTANCE-RATED CONSTRUCTION**

**TABLE 705.8
MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF OPENING PROTECTION**

FIRE SEPARATION DISTANCE (feet)	DEGREE OF OPENING PROTECTION	ALLOWABLE AREA
0 to less than 3	Unprotected, Nonsprinklered (UP, NS)	Not Permitted
	Unprotected, Sprinklered (UP, S)	Not Permitted
3 to less than 5	Protected (P)	Not Permitted
	Unprotected, Nonsprinklered (UP, NS)	Not Permitted
5 to less than 10	Unprotected, Sprinklered (UP, S)	15%
	Protected (P)	15%
10 to less than 15	Unprotected, Nonsprinklered (UP, NS)	15%
	Unprotected, Sprinklered (UP, S)	45%
15 to less than 20	Protected (P)	45%
	Unprotected, Nonsprinklered (UP, NS)	25%
20 to less than 25	Unprotected, Sprinklered (UP, S)	75%
	Protected (P)	75%
25 to less than 30	Unprotected, Nonsprinklered (UP, NS)	45%
	Unprotected, Sprinklered (UP, S)	Not Limit
30 or greater	Protected (P)	Not Limit
	Unprotected, Nonsprinklered (UP, NS)	Not Limit
30 or greater	Unprotected, Sprinklered (UP, S)	Not Required
	Protected (P)	Not Required

**CHAPTER 8
INTERIOR FINISHES**

**TABLE 803.1
INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY**

GROUP	SPRINKLERED			NONSPRINKLERED		
	Exit enclosures and exit passageways	Corridors	Rooms and enclosed spaces	Exit enclosures and exit passageways	Corridors	Rooms and enclosed spaces
R-2	B	B	C	A	A	C

**CHAPTER 10
MEANS OF EGRESS**

Proposed/ Provided:
Building shall comply with **Item 5 of Section 1021.2.**

1021.2 Single exits. Only one exit shall be required in buildings or from stories of buildings as described below:
1. Stories in buildings as described in Table 1021.2.
2. Buildings of Group R-3 occupancy.
3. Single-level buildings with the occupied space at the level of exit discharge provided that the story or space complies with Section 1015.1 as a space with one means of egress.
4. Buildings of Group R-2 occupancy where all of the following conditions are met:
4.1. The building does not exceed four stories;
4.2. The building contains not more than three dwelling units per story;
4.3. The building is of construction Type I or II;
4.4. The building does not exceed 2,500 square feet (232 m²) 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;
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 (0.35 rad). In lieu of the stairway bulkhead, the stair may be constructed against the street wall with one window facing the street at every landing and access to the roof is provided via a scuttle with a stationary, noncombustible access ladder;
4.7. The stairway is enclosed in 2-hour fire-rated walls with all exit doors leading into the stairway having at least 1 1/2-hour fire rating; and
4.8. The building shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.2
5. Buildings of Group R-2 occupancy of construction Type I or II not exceeding six stories and not exceeding 2,000 square feet (186 m²) per story.

**CHAPTER 12
INTERIOR ENVIRONMENT**

1206.2.1 Rear yard access for multiple dwellings. For multiple dwellings, there shall be direct access from the street to every rear yard through a noncombustible 2-hour fire-resistance-rated passage either in a direct line or through a court, except that the passage may be 1-hour fire-resistance-rated for dwellings not exceeding three stories in height and occupied by not more than two families on any story. Such passage shall be at least 36 inches (914 mm) in clear width and 7 feet (2134 mm) in height.
Exceptions: No such passage shall be required for:
1. Buildings of Type IA or IB construction.
2. Buildings not exceeding three stories in height, and occupied by not more than one family on any story nor more than three families in all.
3. Buildings not exceeding two stories in height, and occupied by not more than two families on any story nor more than four families in all.

Proposed/ Provided:
Building shall be of Construction Class IB

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32
32 EAST 29TH STREET
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Danalys Nazario
APPROVED
Under Directive 2 of 1975
Date: 03/05/2021
NYC Development Hub

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10/22/2020	DOB SUBMISSION

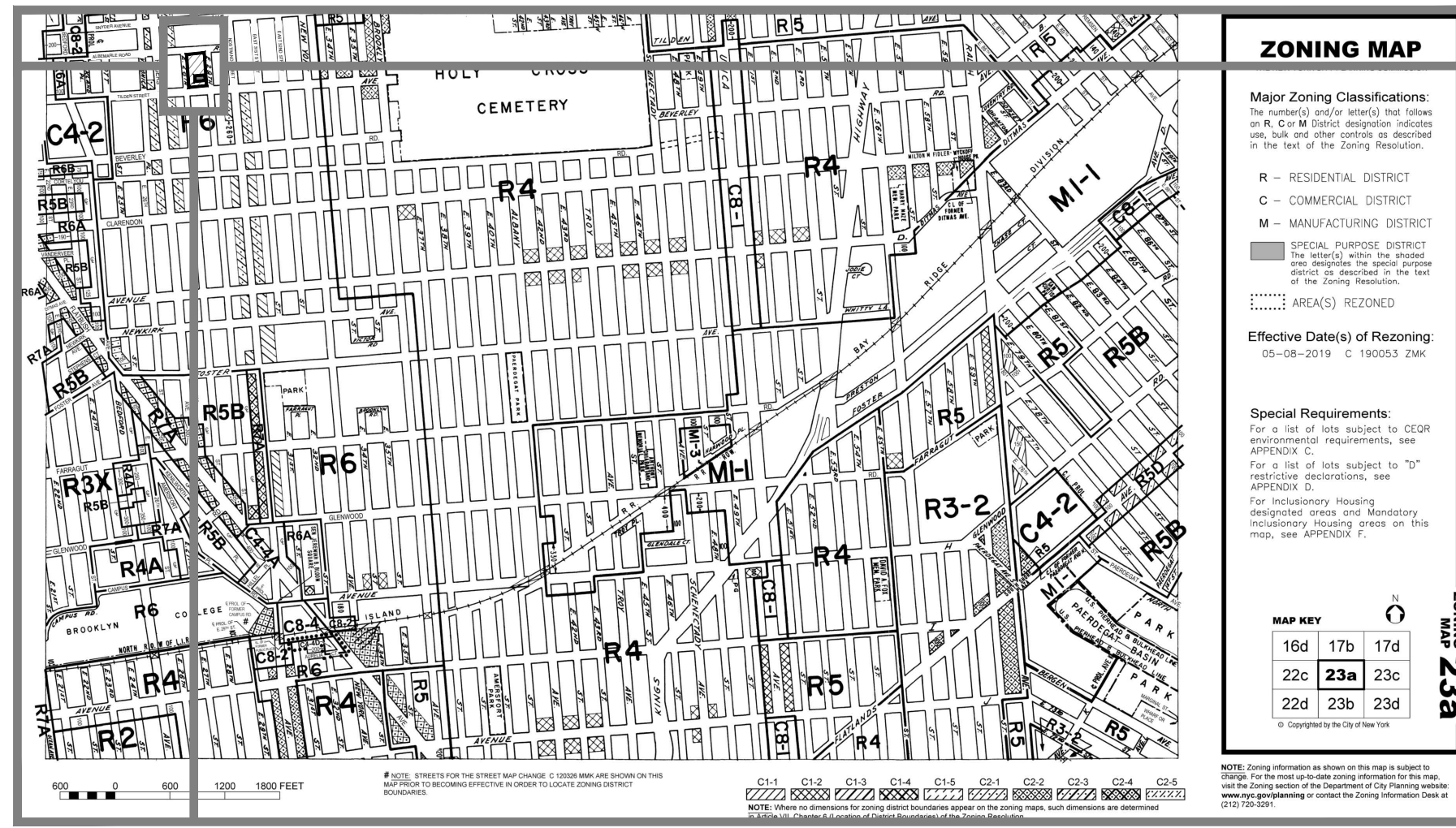
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32 EAST 29TH STREET
BROOKLYN, NY 11226

**DRAWING TITLE
BUILDING CODE INFORMATION**

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CHECKED BY:
PAGE NO. 03 OF 33
DRAWING NO.
T-003.00
REGISTERED ARCHITECT
ROBERT BIANCHI
STATE OF NEW YORK
33616

D.O.B. #
321598268

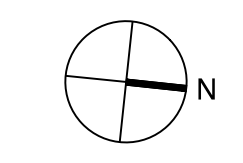
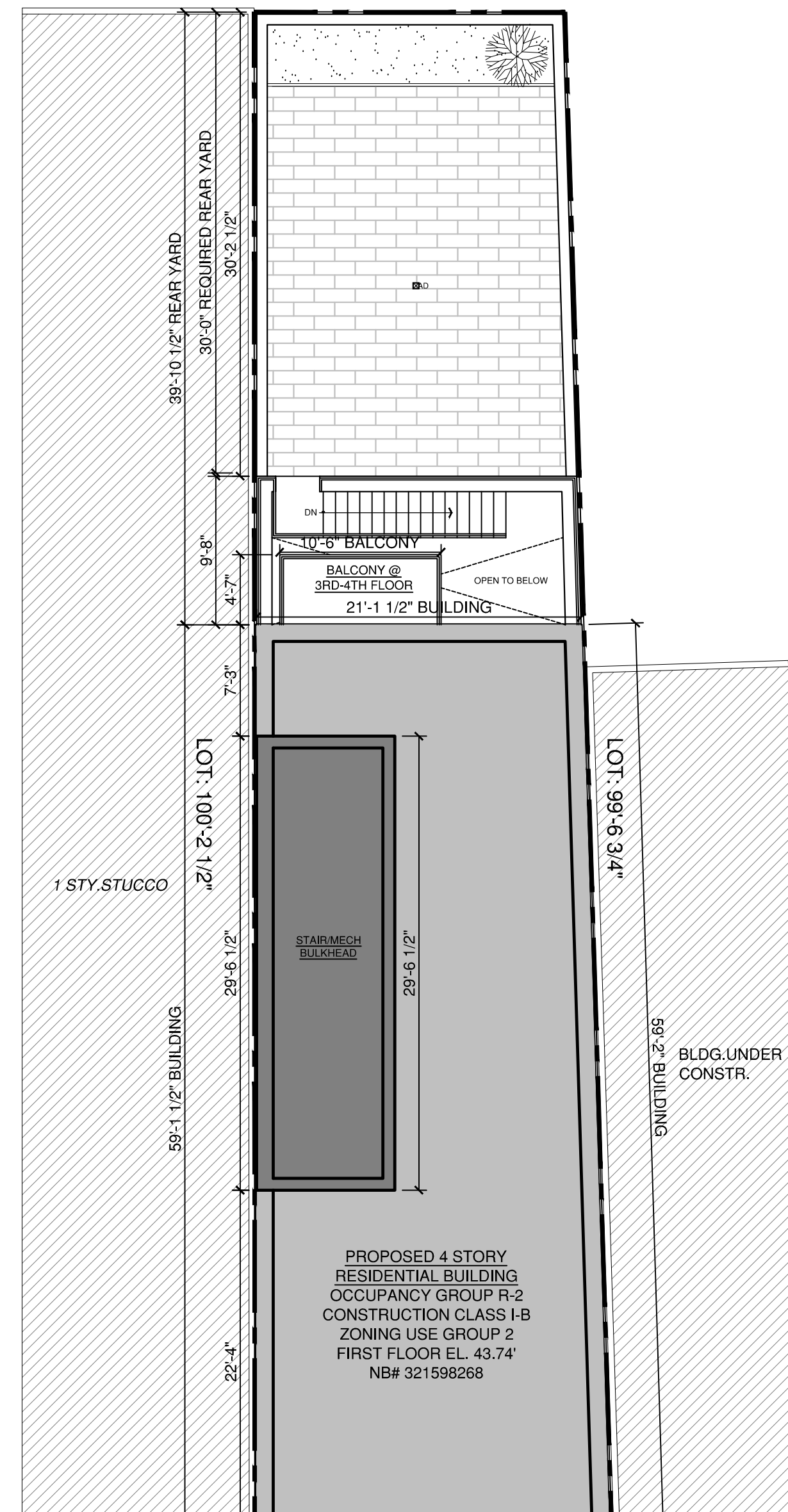
ZONING MAP 23a



Base Plane Calculation ZR 12-10

East 29th Street South Elevation	43.66 ft
North Elevation	44.01 ft
Total	87.67 ft / 2
Base Plane:	43.84 ft

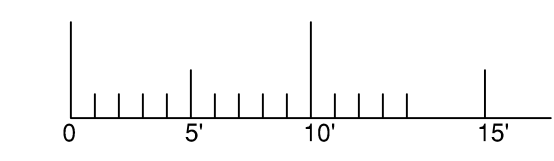
LOT: 20'-2 5/8"



SITE DATA

ADDRESS: 32 EAST 29TH STREET, BROOKLYN, NY 11226
 BLOCK: 5130
 LOT: 16
 ZONE: R6
 MAP: 23a
 AREA: 2,170.80 SF

ALL INFORMATION OBTAINED BY SURVEY PROVIDED BY KABA SURVEYING



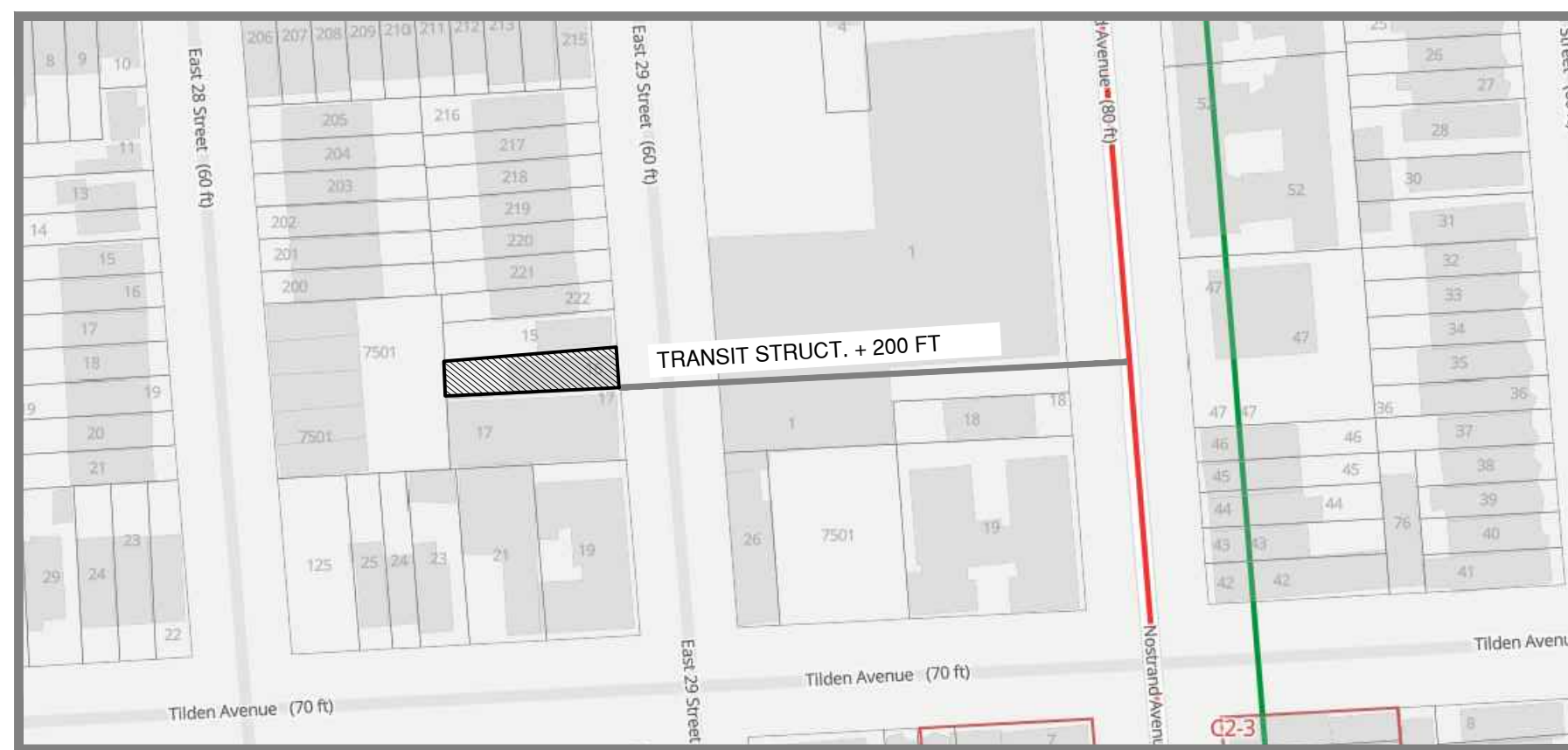
LEGEND

- FIRE HYDRANT
- SEWER MANHOLE
- GAS VALVE
- WATER VALVE
- SIGN
- OIL FILLER
- CS COMBINED SEWER
- W WATER MAIN

ABBREVIATIONS

- EBC/ETC EXISTING BOTTOM/TOP OF CURB
- PBC/PTC PROPOSED BOTTOM/TOP OF CURB
- EPL EXISTING PROPERTY LINE
- PPL PROPOSED PROPERTY LINE ELEVATION
- PEL PROPOSED ELEVATION POINT
- CL CENTER LINE
- LG LEGAL GRADE

TRANSIT MAP



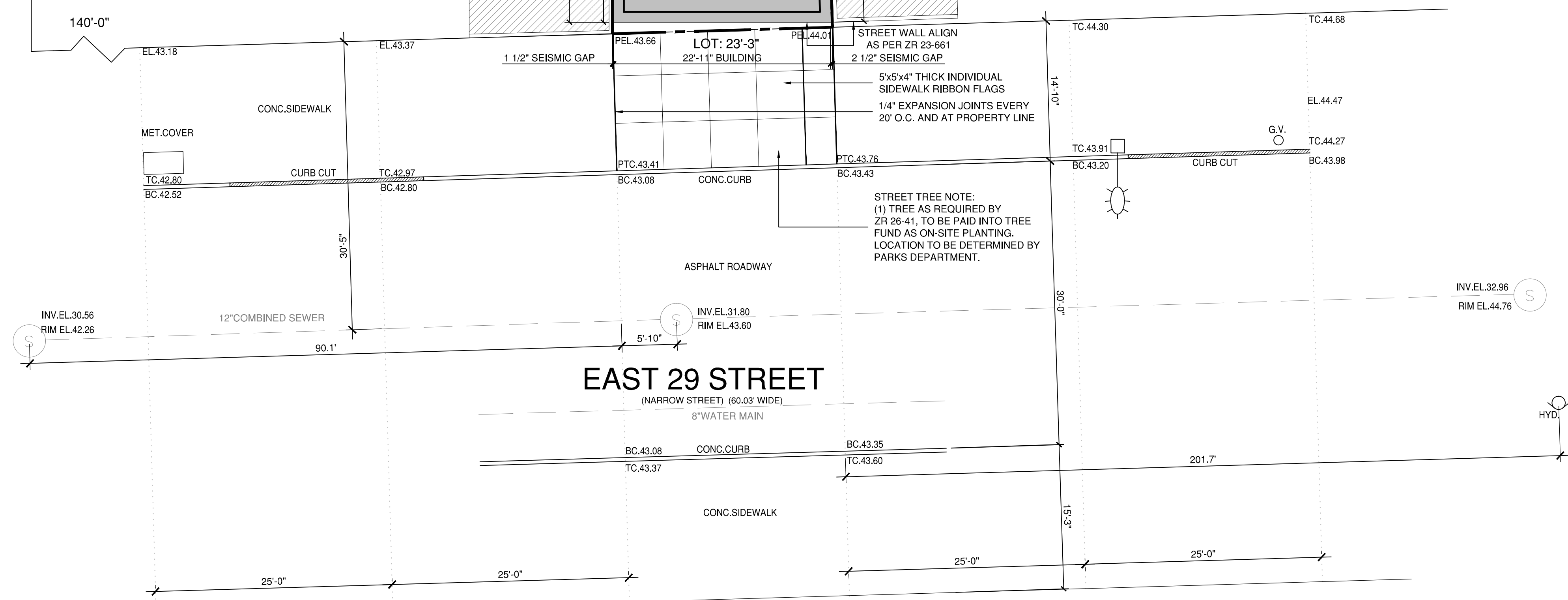
DIGITAL TAX MAP



SITE IMAGE



TILDEN AVENUE (70.03' WIDE)



1 SITE PLAN
 Scale: 1/8"=1'-0"

PROJECT **32**
 32 EAST 29TH STREET
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Danalys Nazario

 APPROVED
 Under Directive 2 of 1975
 Date: 03/05/2021
 NYC Development Hub

03/05/2020	DOB SUBMISSION
11/25/2020	DOB SUBMISSION
10/22/2020	DOB SUBMISSION

PROJECT 32 EAST 29TH STREET
 BROOKLYN, NY 11226

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SITE PLAN

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 PAGE NO. 04 OF 33
 DRAWING NO. **Z-001.00**
 D.O.B. # _____

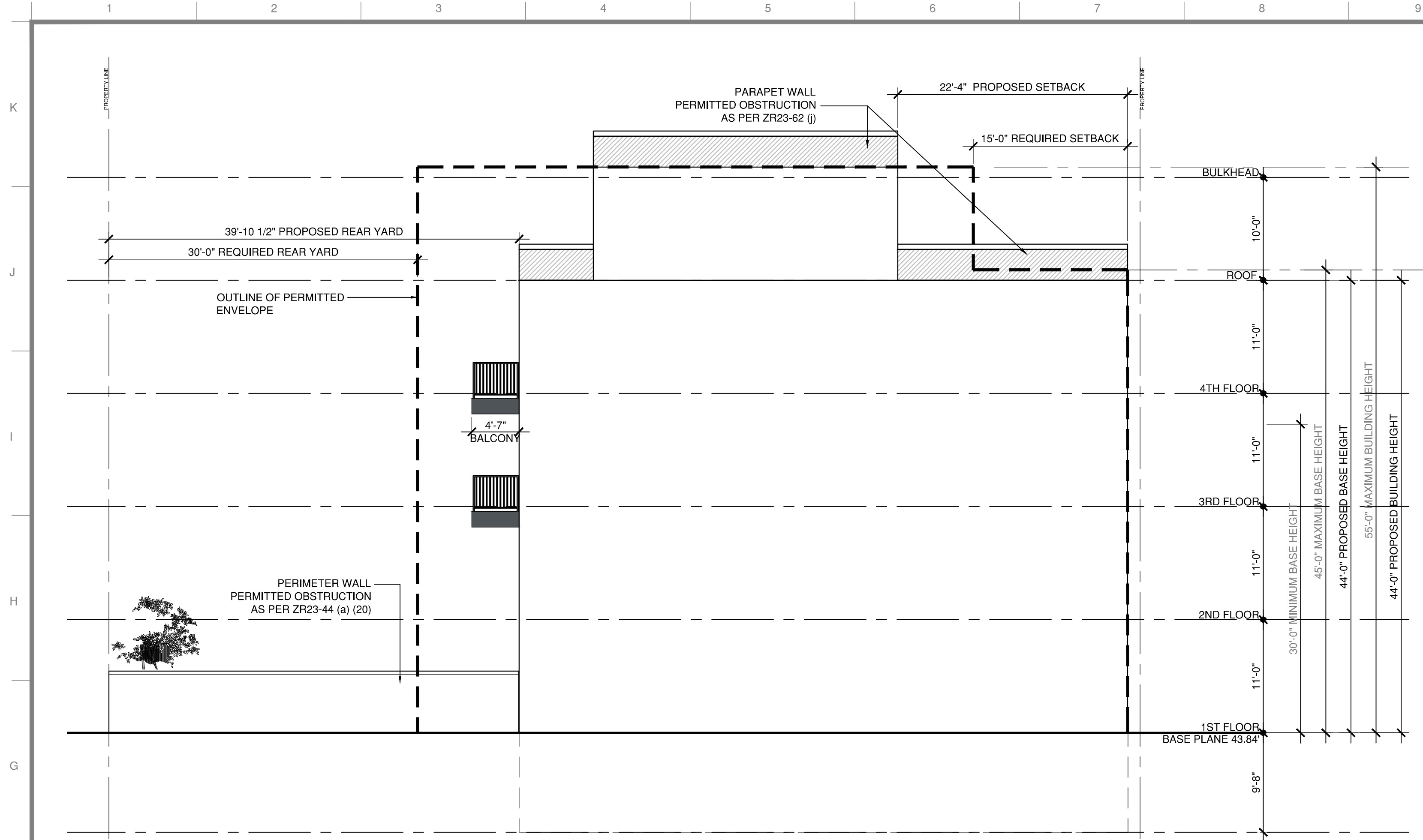
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 32 EAST 29TH STREET
 BROOKLYN, NY 11226

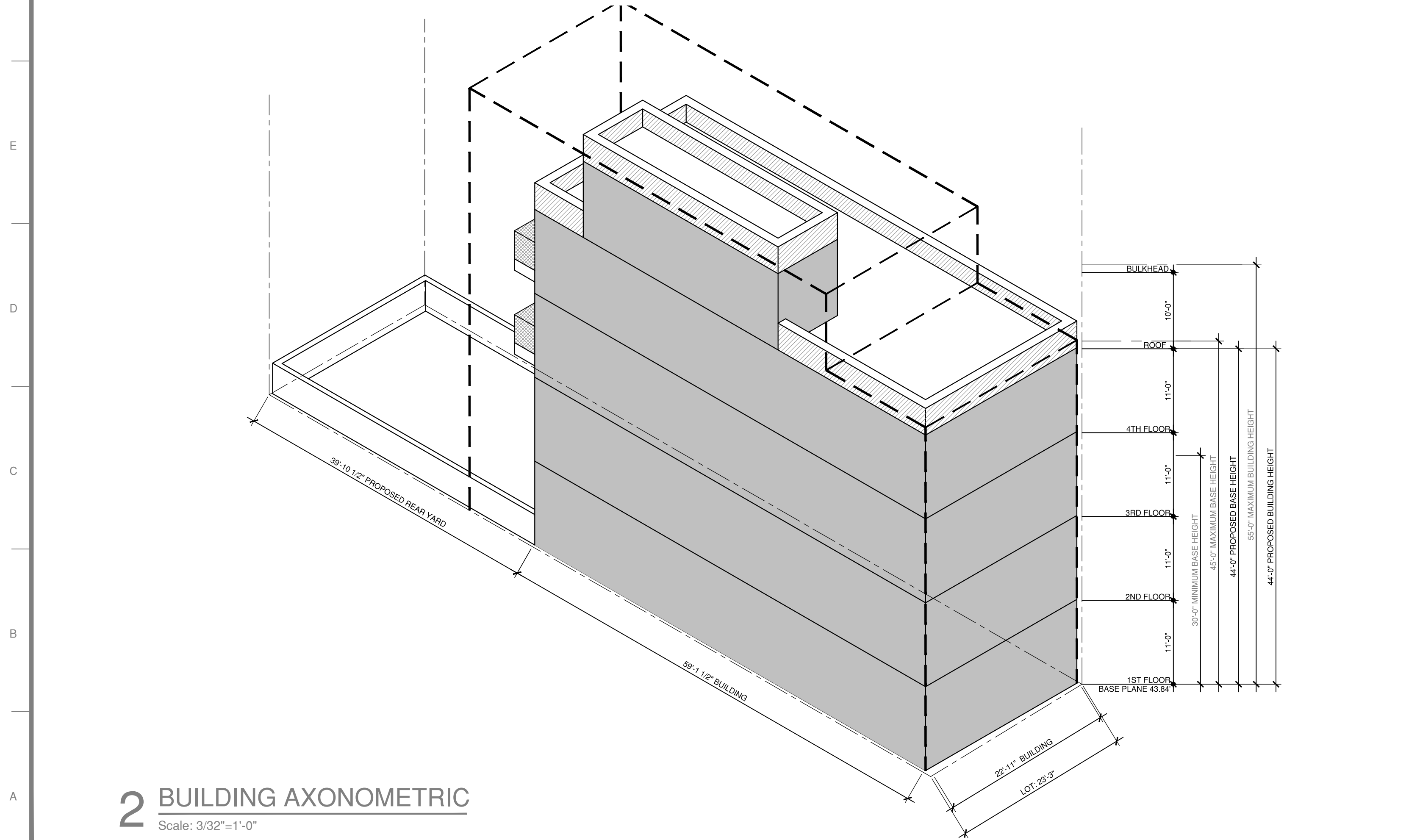
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1 BUILDING HEIGHT DIAGRAM
 Scale: 1/8"=1'-0"



2 BUILDING AXONOMETRIC
 Scale: 3/32"=1'-0"

32 East 29th St, Brooklyn, NY

Block: 5130
 Lots: 16
 Lot Area: 2,170.60 sf

Zoning Information

Zoning Map: 23a
 Districts: R6
 Lot type: Interior Lot
 Street Type: Narrow Street

Use Regulations

ZR Section	Subject	Permitted/ Required	Proposed/ Provided	Notes/Reference
ZR 22-10	Permitted Residential Use Groups:	1,2	2	See Schedule A
ZR 22-10	Permitted Community Facility Use Groups:	3,4		

Bulk Regulations

ZR Section	Subject	Permitted/ Required	Proposed	Notes/Reference
ZR 23-153	Maximum Zoning Floor Area	2.2	2.16	Pursuant to Quality Housing
	Max Residential FAR			
	Maximum Residential Zoning Floor Area	4,775.32 sf	4,692.07 sf	See Zoning Area Diagram (Z-003 - Z-004)
ZR 23-153	Lot Coverage and Open Space Requirements			Complies
	Max Residential Lot Coverage (Interior Lot)	60%	59.96%	See Lot Coverage Diagram Z-004
	Maximum coverage in floor area	1,302.36 sf	1,301.50 sf	
ZR 23-22	Density			Complies
	Max Number of Dwelling Units: 680 sf DU	7 DU's	7 DU's	See Schedule A & Floor Plans
	Maximum Residential Zoning Floor Area / 680 sf	4,775.32 sf / 680 sf = 7 DU's		
ZR 23-32	Lot Area and Lot Width Regulations			Complies
	Minimum Lot Width	18 ft	23.25 ft	See Survey
	Minimum Lot Area	1,700 sf	2,170.60 sf	
ZR 23-40	Yard Regulations			Complies
	Residential Yard Regulations			See Site Plan Z-001
ZR 23-462(c)	Side Yard Requirements	None Required	None Proposed	No side yard required. However, if any open area extending along a side lot line is provided at any level, it shall have a minimum width of eight feet.
ZR 23-47	Rear Yard	30'-0"	39'-10 1/2"	See Site Plan Z-001
ZR 23-60	Height and Setback and Street Wall Location Regulations			Complies
	Residential Height and Setback Regulations			
ZR 23-60	Maximum height of buildings and setback regulations			Narrow Street
ZR 23-60	Residential Height and Setback Regulations			
ZR 23-661(b)2	Street Wall Location (Narrow Street)	See Notes	Not closer to street line/ Not further from street line	On zoning lots with less than 50 feet of frontage along a street line, the street wall shall be located no closer to the street line than the closest street wall, or portion thereof, nor further from the street line than the furthest street wall, or portion thereof, of an existing adjacent building on the same or an adjoining zoning lot located on the same street frontage that is both within 15 feet of the street line and within 25 feet of such Quality Housing building. Where such existing adjacent building, or portion thereof, has street walls located at varying depths, the street wall shall not be located closer to the street line than the furthest portion of such existing adjacent street wall that is at least five feet in width. See Site Plan Z-001

Table 1

Minimum Base Height	30 ft	44 ft
Maximum Base Height	45 ft	44 ft
Maximum Building Height	55 ft	44 ft
Setback above Max Base Height	15 ft	22'-4"

Special Urban Design Guidelines

ZR Section	Subject	Permitted/ Required	Proposed / Provided	Notes/ Reference
ZR 26-41	Street Tree Planting & Planting Strip Requirements			Complies
	Street Tree Planting & Planting Strip Requirements	1 tree per 25 ft.	1 Tree	1 Tree to be paid into Tree Fund as On-Site Planting 23.25 ft / 25 ft = .93 → 1 tree

Accessory Off-Street Parking, Bicycle Storage and Loading Regulations

ZR Section	Subject	Permitted/ Required	Proposed / Provided	Notes/ Reference
ZR 25-241	Required Accessory Off Street Parking			Complies
	Residential Use: **50% of Dwelling Units	7 x 50% = 3.5 or 4 cars	See Notes	See ZR 25-261 Waiver below
ZR 25-261	Waiver of Requirements (R6): max No of spaces waived	5 cars	Waived	Required number of cars is 5 or less therefore parking may be waived
	Required Bicycle Parking			
ZR 25-80 & ZR 25-811	Residential Use: 1 per 2 Dwelling Units	7 x 50% = 3.5 or 4 bikes 4 bikes	Waived	10 DU's or less, therefore bicycle parking may be waived as per ZR 25-811 (a)

Quality Housing Program

ZR Section	Subject	Permitted/ Required	Proposed / Provided	Notes/ Reference
ZR 28-12	Building Interior			Complies
	Refuse & Storage Disposal			
	Storage of refuse	2.9 sf per D.U. 2.9 sf x 7 DU's = 20.3 cf	Complies as Noted	Storage provided at Cellar. See drawing A-100
ZR 28-13	Laundry Facilities	See notes	See notes	Washer and Dryer provided within each Dwelling Units. Floor area deductions not taken
ZR 28-14	Daylight in Corridors	See notes	See notes	
ZR 28-21	Recreation Space & Planting Areas			Complies
	Minimum required recreation space (R6)	Not Required/ See Notes	Not required	Less than 9 units therefore not required as per ZR 28-21.
ZR 28-23	Planting Areas	Required	Provided	Building is on street line, therefore there is no available space for planting area Provided. See Site Plan Z-001
	Safety & Security			Complies



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PROJECT
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ZONING ANALYSIS, BUILDING HEIGHT & AXONOMETRIC DIAGRAM

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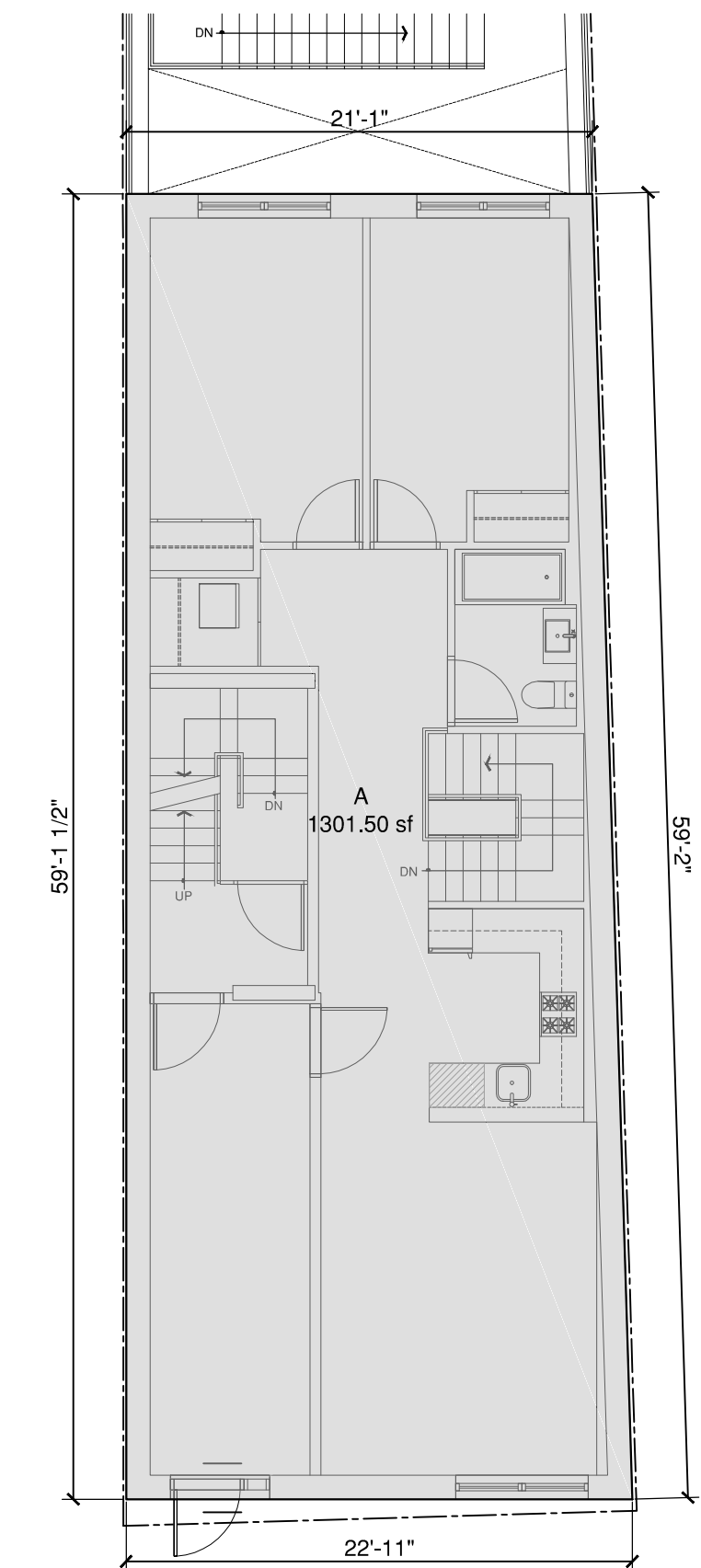
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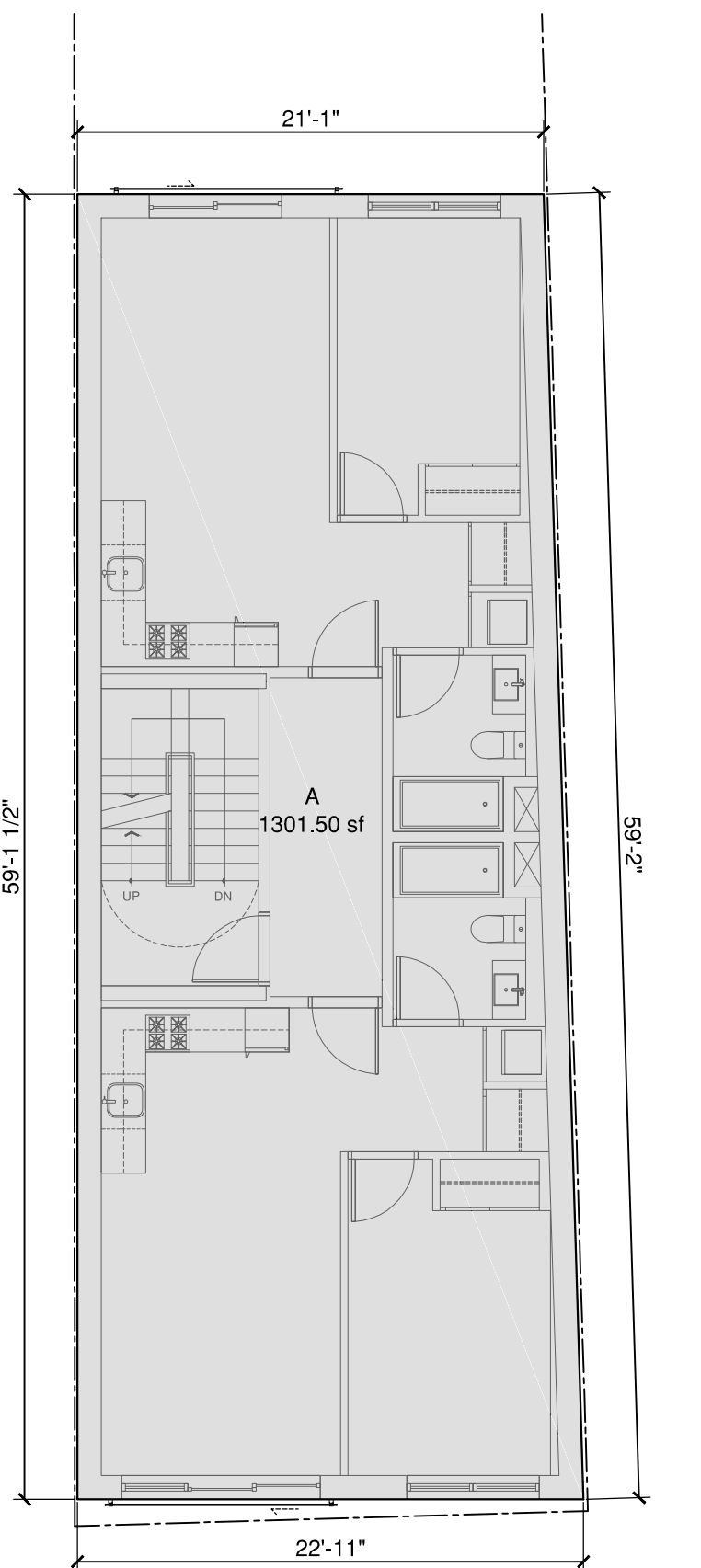
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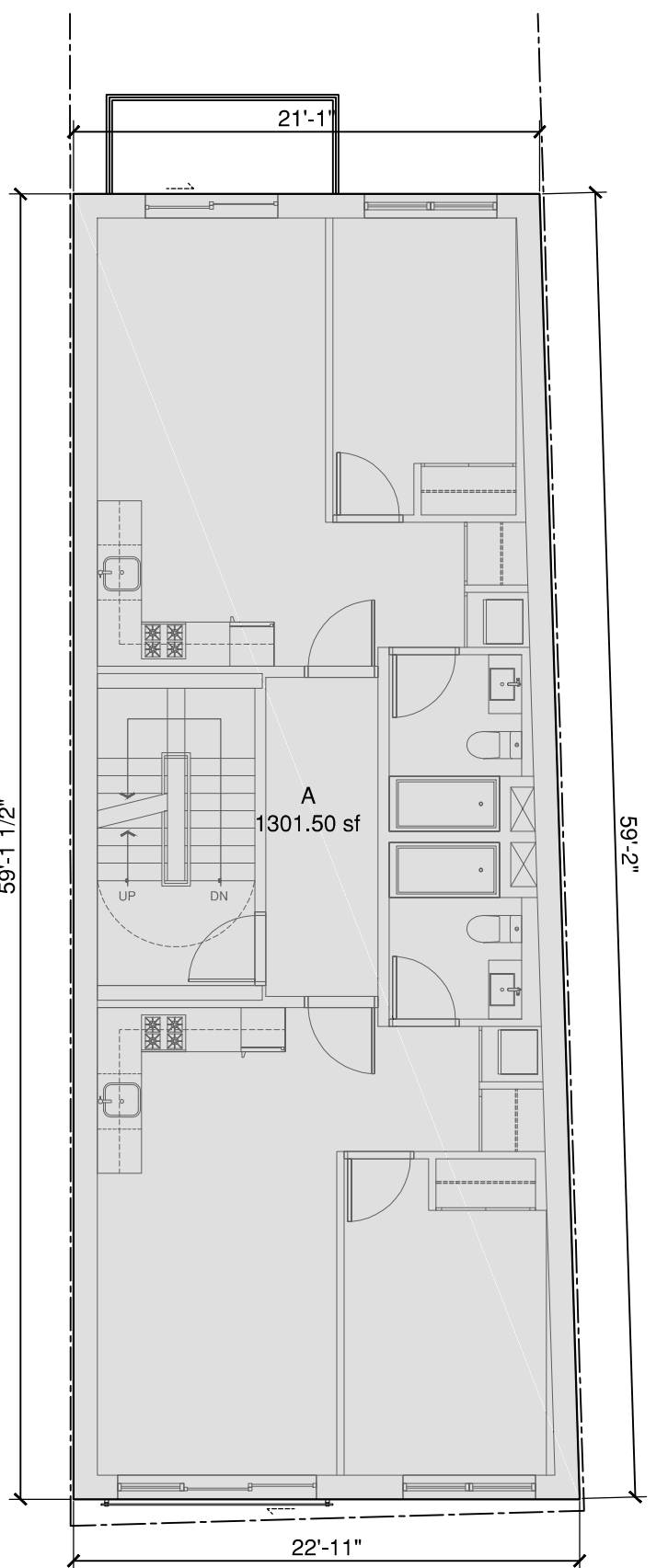
1st Floor	
Mark	Area
A	1,301.50
Total: 1,301.50	

1 1ST FLOOR GROSS AREA
 Scale: 1/8"=1'-0"



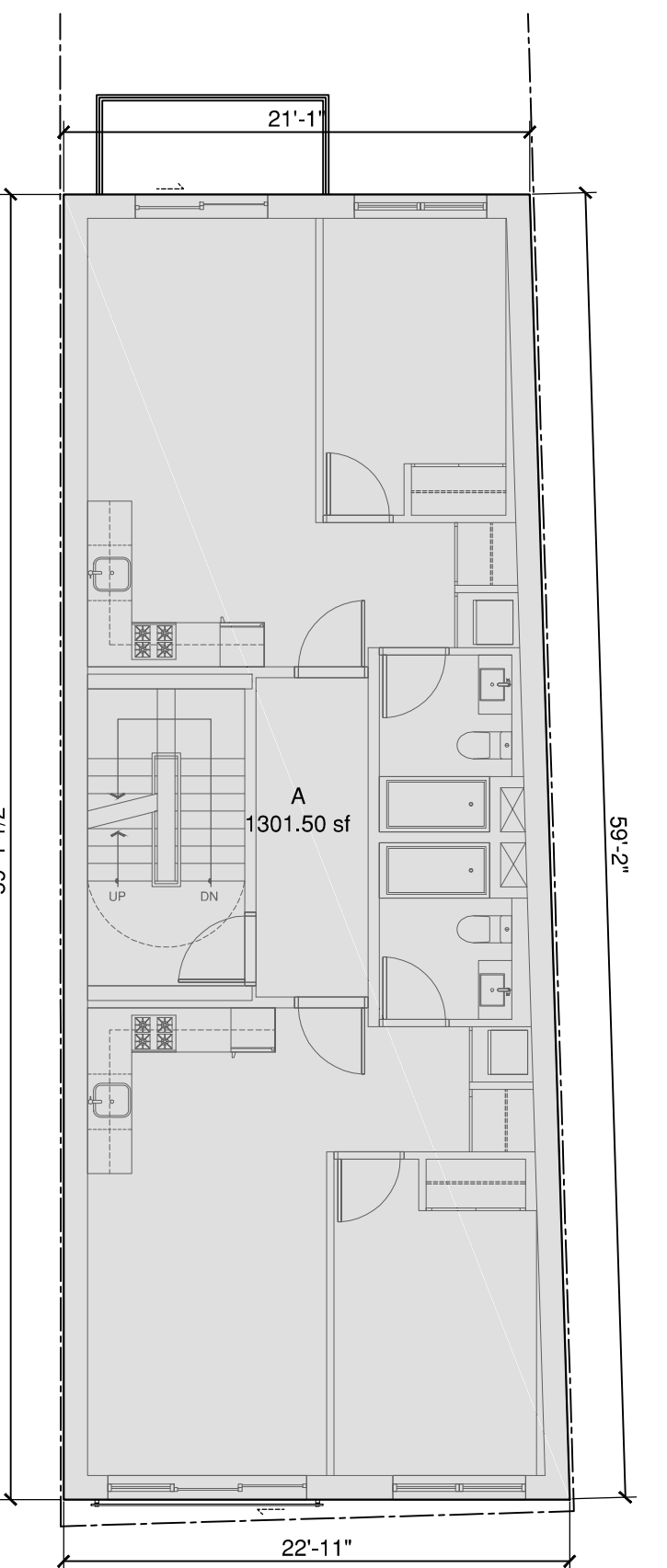
2nd Floor	
Mark	Area
A	1,301.50
Total: 1,301.50	

2 2ND FLOOR GROSS AREA
 Scale: 1/8"=1'-0"



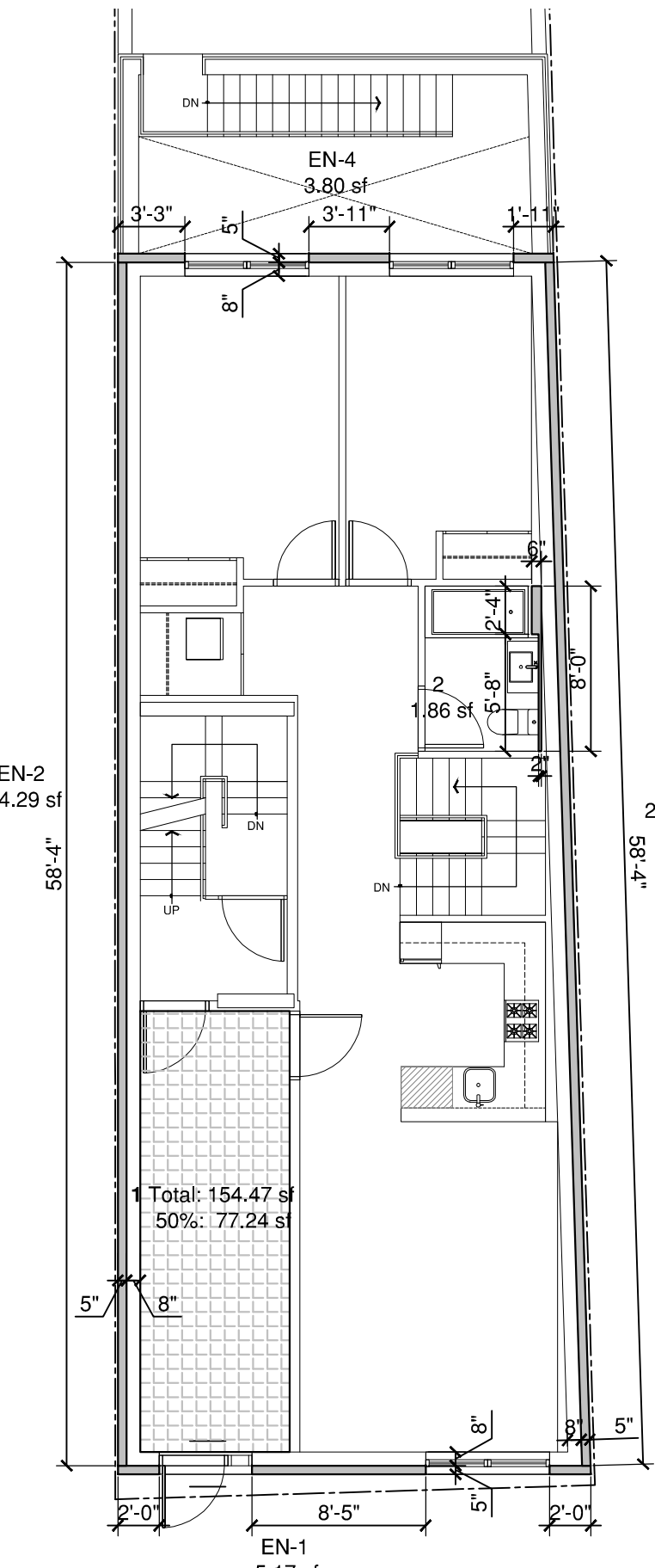
3rd Floor	
Mark	Area
A	1,301.50
Total: 1,301.50	

3 3RD FLOOR GROSS AREA
 Scale: 1/8"=1'-0"



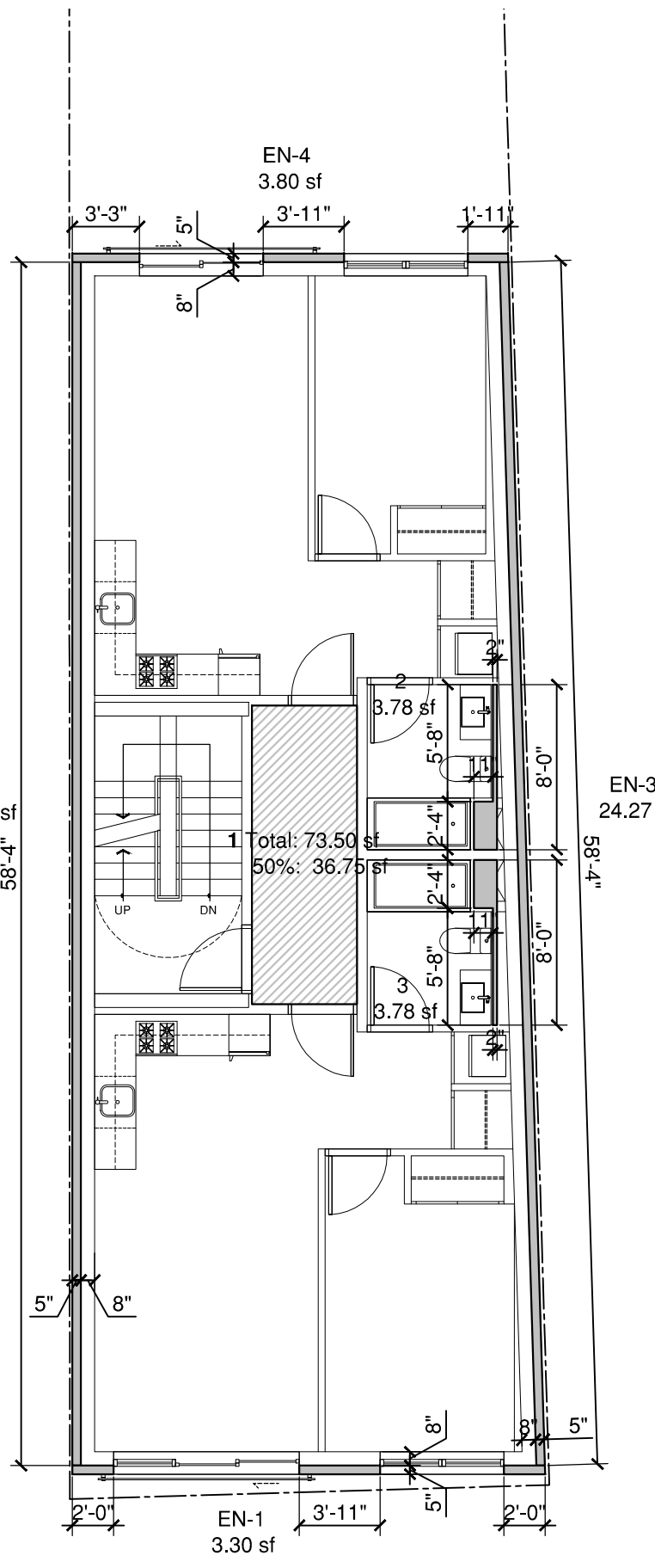
4th Floor	
Mark	Area
A	1,301.50
Total: 1,301.50	

4 4TH FLOOR GROSS AREA
 Scale: 1/8"=1'-0"



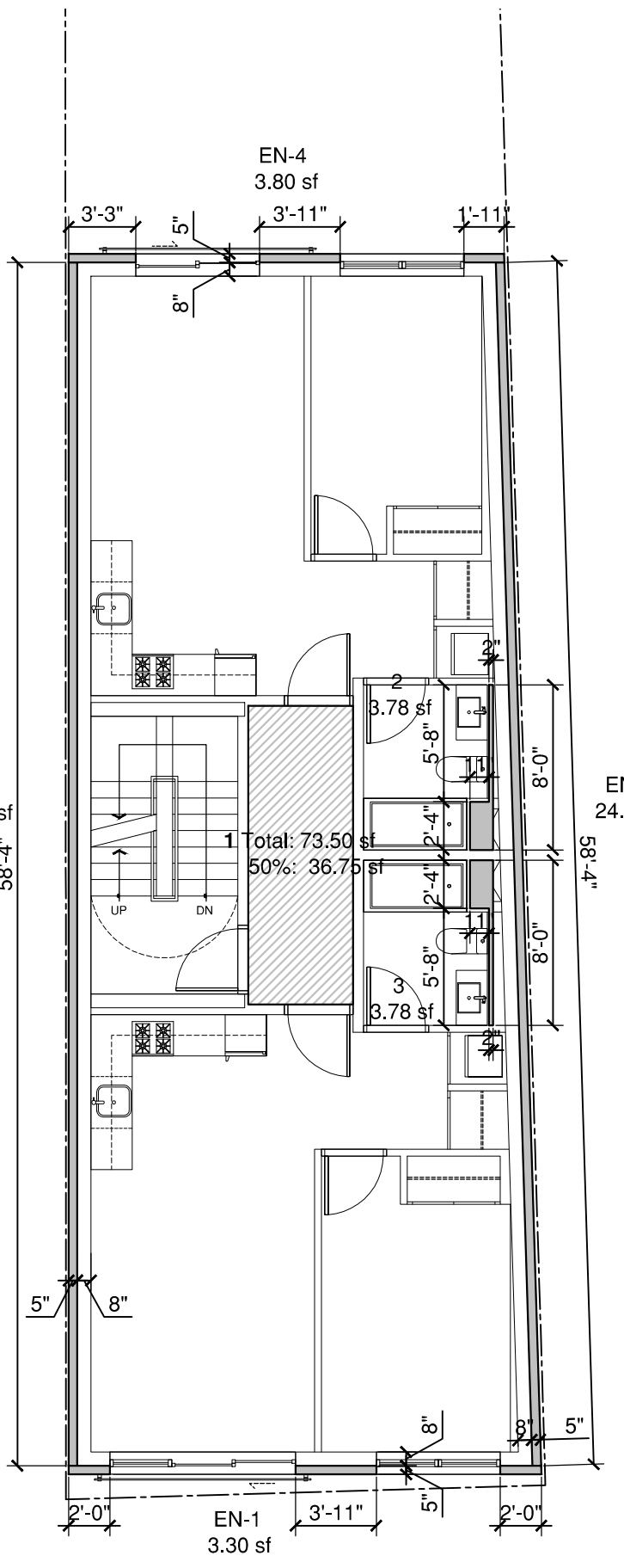
1.1 1ST FLOOR DEDUCTIONS
 Scale: 1/8"=1'-0"

1st floor Gross Floor Area:			1st Floor ENERGY CODE DEDUCTIONS		
Mark	Deduction Item	Area	Mark	Deduction Item	Area
Gross Floor Area: 1,301.50			EN-1	Exterior walls partly NYCECC	5.17
1	Density per Corridor (50%)	ZR 28-41 77.24	EN-2	Exterior walls partly NYCECC	24.29
	Light in Corridor (50%)	ZR 28-25 77.24	EN-3	Exterior walls partly NYCECC	24.27
2	Plumbing chase	ZR 12-10 1.86	EN-4	Exterior walls partly NYCECC	3.80
3	Energy Wall Deduction	57.53			
Total Deductions: 213.87			Total NYCECC Deductions: 57.53		
Zoning Floor Area: 1,087.63			Total NYCECC Deductions: 57.53		



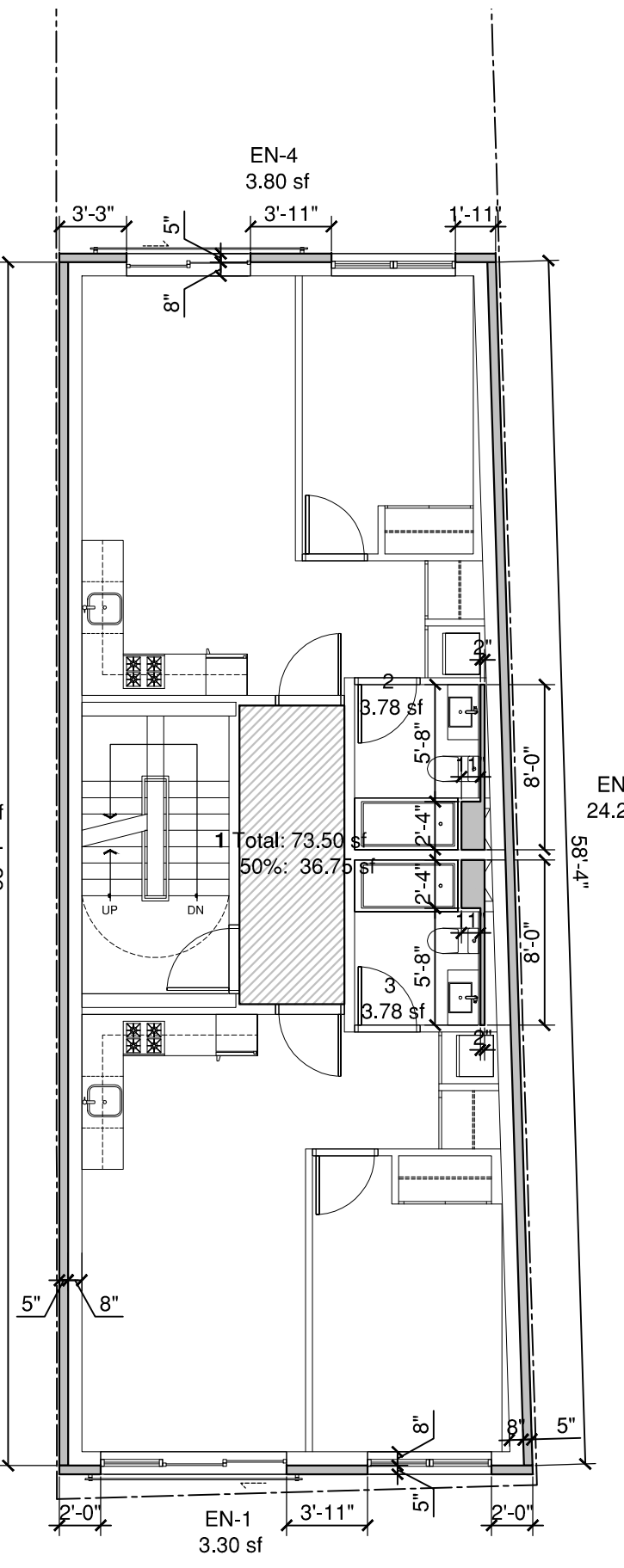
2.1 2ND FLOOR DEDUCTIONS
 Scale: 1/8"=1'-0"

2nd Floor Gross Floor Area:			2nd-4th Floor ENERGY CODE DEDUCTIONS		
Mark	Deduction Item	Area	Mark	Deduction Item	Area
Gross Floor Area: 1,301.50			EN-1	Exterior walls partly NYCECC	3.30
1	Density per Corridor (50%)	ZR 28-25 36.75	EN-2	Exterior walls partly NYCECC	24.29
2	Plumbing chase	ZR 12-10 3.78	EN-3	Exterior walls partly NYCECC	24.32
3	Plumbing chase	ZR 12-10 3.78	EN-4	Exterior walls partly NYCECC	3.80
4	Energy Wall Deduction	55.71			
Total Deductions: 100.02			Total NYCECC Deductions: 55.71		
Zoning Floor Area: 1,201.48			Total NYCECC Deductions: 55.71		



3.1 3RD FLOOR DEDUCTIONS
 Scale: 1/8"=1'-0"

3rd Floor Gross Floor Area:			2nd-4th Floor ENERGY CODE DEDUCTIONS		
Mark	Deduction Item	Area	Mark	Deduction Item	Area
Gross Floor Area: 1,301.50			EN-1	Exterior walls partly NYCECC	3.30
1	Density per Corridor (50%)	ZR 28-25 36.75	EN-2	Exterior walls partly NYCECC	24.29
2	Plumbing chase	ZR 12-10 3.78	EN-3	Exterior walls partly NYCECC	24.32
3	Plumbing chase	ZR 12-10 3.78	EN-4	Exterior walls partly NYCECC	3.80
4	Energy Wall Deduction	55.71			
Total Deductions: 100.02			Total NYCECC Deductions: 55.71		
Zoning Floor Area: 1,201.48			Total NYCECC Deductions: 55.71		



4.1 4TH FLOOR DEDUCTIONS
 Scale: 1/8"=1'-0"

4th Floor Gross Floor Area:			2nd-4th Floor ENERGY CODE DEDUCTIONS		
Mark	Deduction Item	Area	Mark	Deduction Item	Area
Gross Floor Area: 1,301.50			EN-1	Exterior walls partly NYCECC	3.30
1	Density per Corridor (50%)	ZR 28-25 36.75	EN-2	Exterior walls partly NYCECC	24.29
2	Plumbing chase	ZR 12-10 3.78	EN-3	Exterior walls partly NYCECC	24.32
3	Plumbing chase	ZR 12-10 3.78	EN-4	Exterior walls partly NYCECC	3.80
4	Energy Wall Deduction	55.71			
Total Deductions: 100.02			Total NYCECC Deductions: 55.71		
Zoning Floor Area: 1,201.48			Total NYCECC Deductions: 55.71		



03/05/2020	DOB SUBMISSION
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10/22/2020	DOB SUBMISSION

PROJECT
 32 EAST 29TH STREET
 BROOKLYN, NY 11226

DRAWING TITLE
ZONING AREA DIAGRAMS

PROJECT NO:	SEAL & SIGNATURE
DRAWN BY:	
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PAGE NO. 06 OF 33	
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D.O.B. #

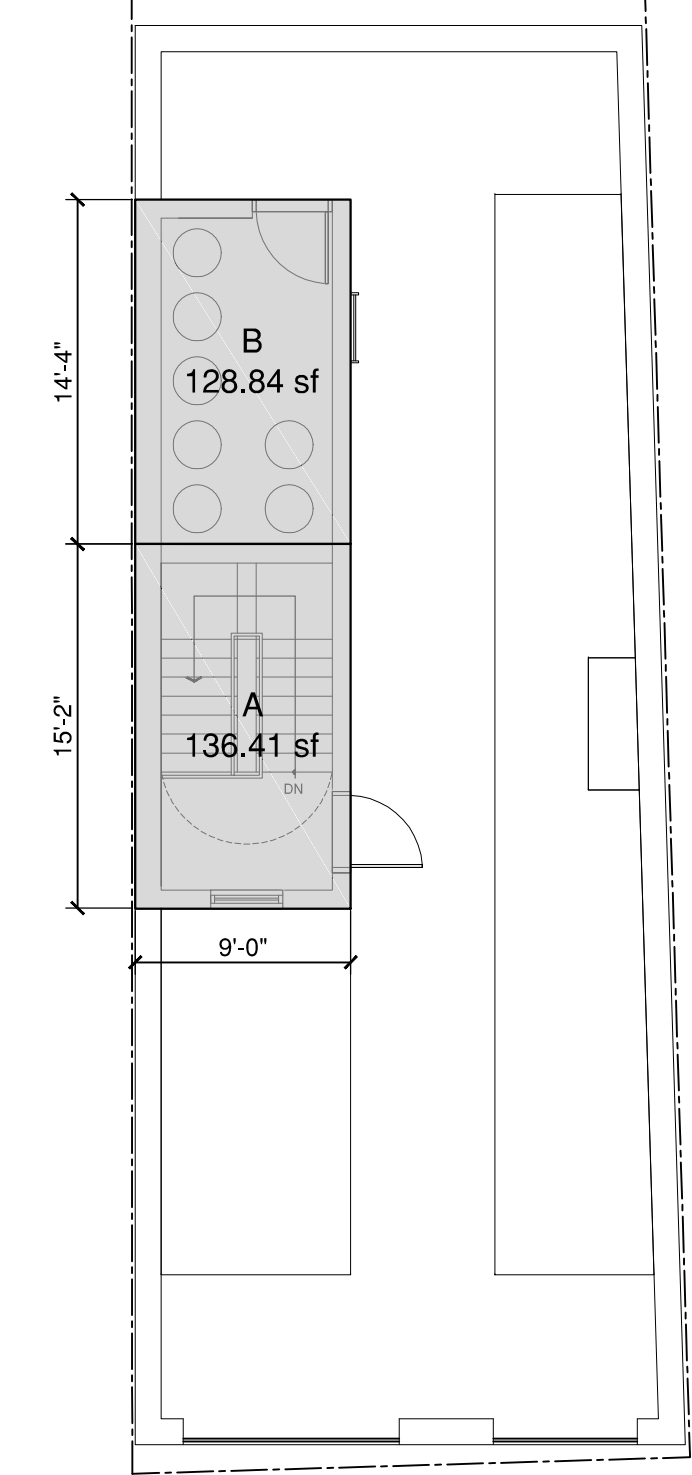
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PROJECT
32
 32 EAST 29TH STREET
 BROOKLYN, NY 11226

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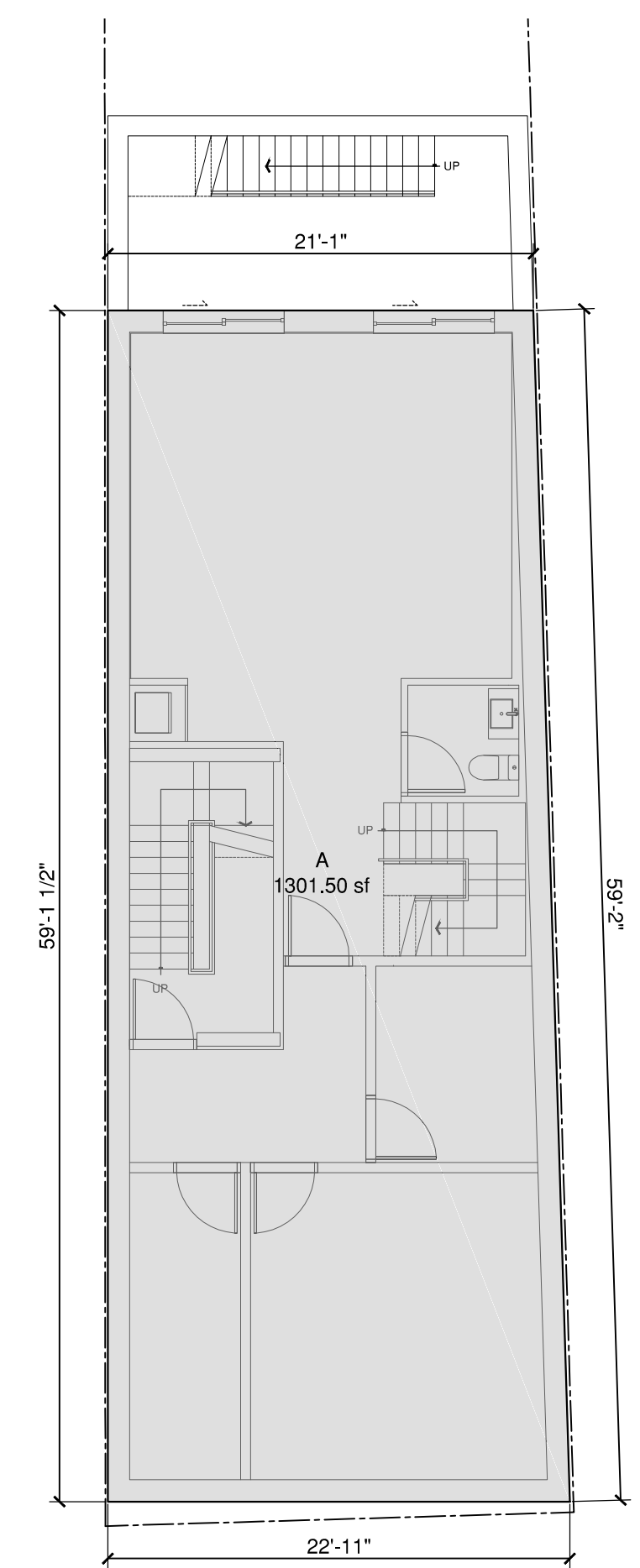
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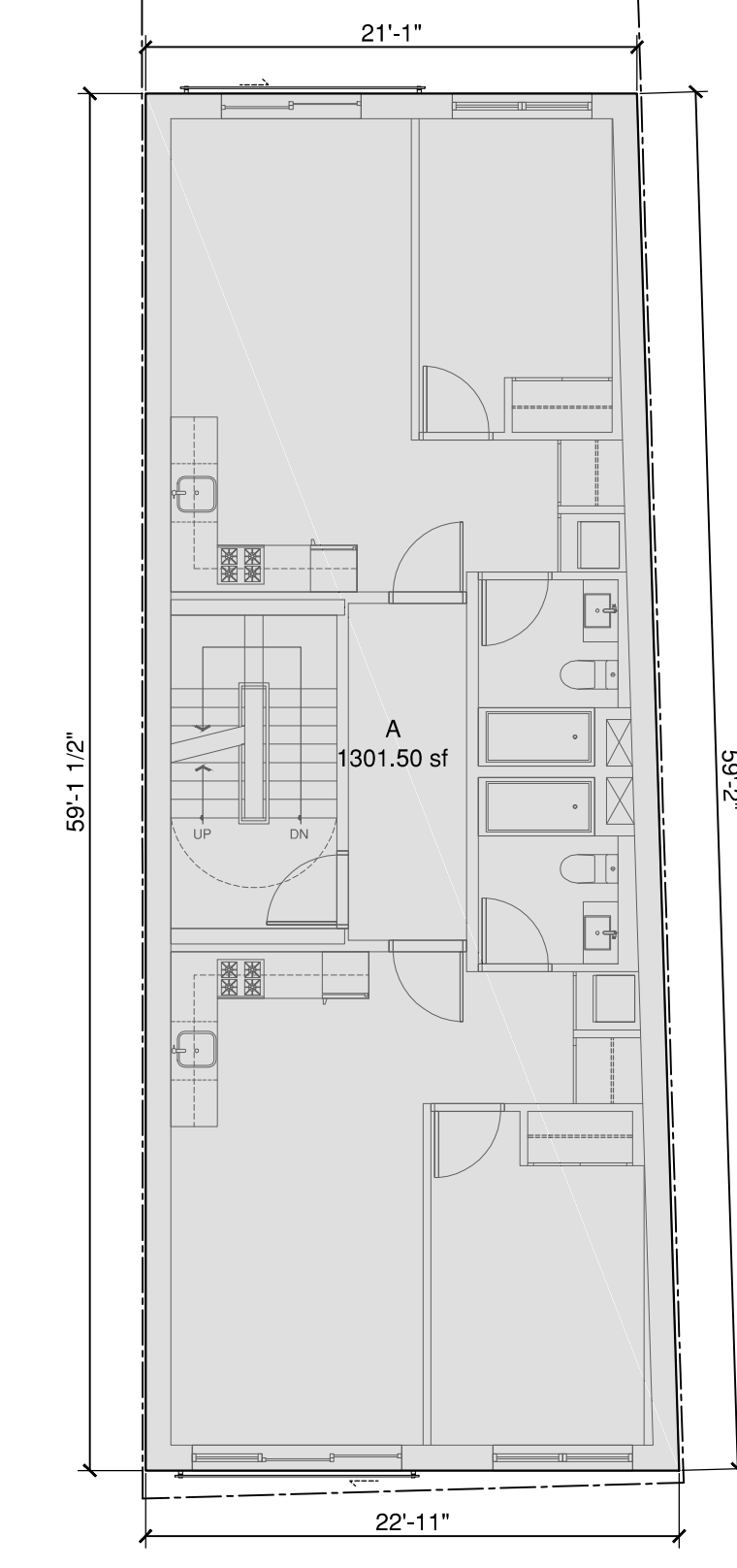
Roof	
Mark	Area
A	136.41
B	128.84
Total:	265.25

1 ROOF GROSS AREA
 Scale: 1/8"=1'-0"



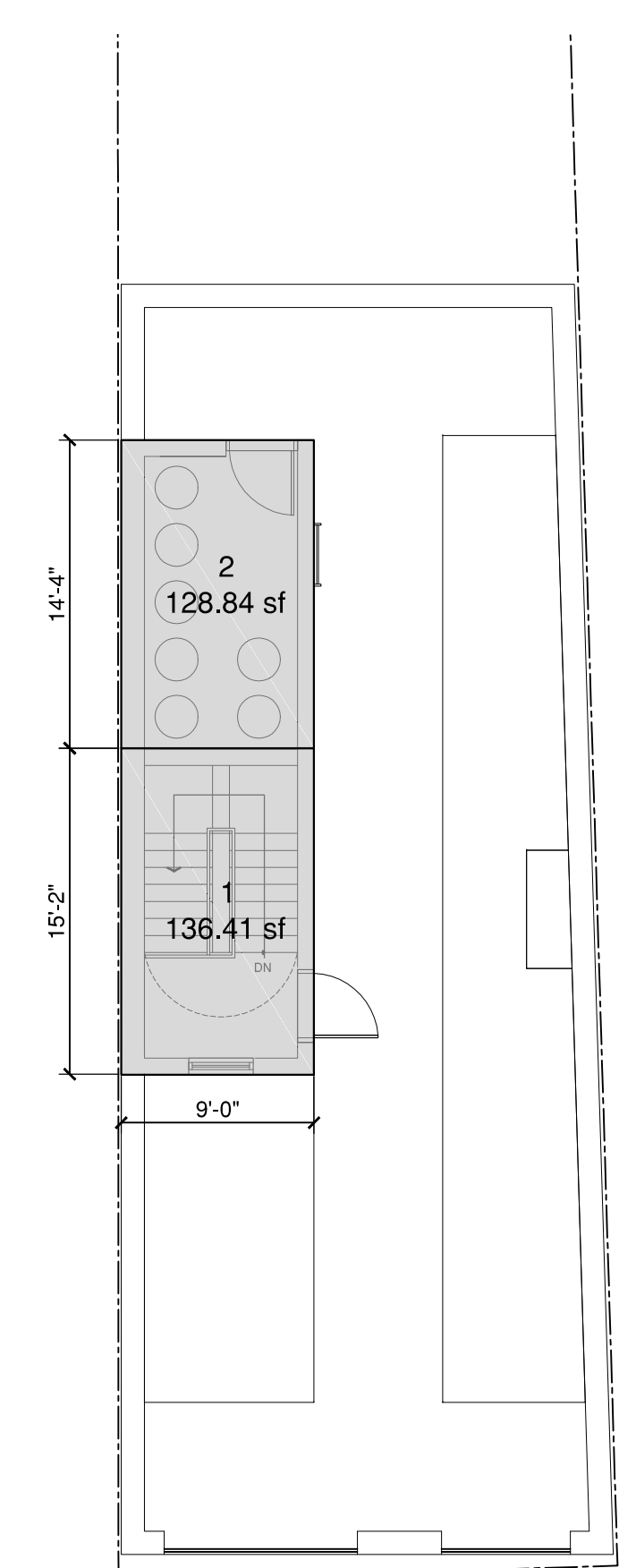
Cellar	
Mark	Area
A	1,301.50
Total:	1,301.50

2 CELLAR GROSS AREA
 Scale: 1/8"=1'-0"



Lot Coverage	
Mark	Area
A	1,301.50
Total:	1,301.50
Lot Size	2,170.60
Lot Coverage	59.96%

3 LOT COVERAGE DIAGRAM
 Scale: 1/8"=1'-0"



Roof			
Mark	Deduction Item	ZR	Area
1	Stair Bulkhead	ZR 12-10	136.41
2	Mechanical Room	ZR 12-10	128.84
Total Deductions:			265.25
Zoning Floor Area:			0.00

32 East 29th St Zoning Floor Area			
Floor Designation	Proposed Gross Floor Area	Zoning Deductions	Zoning Floor Area
Cellar	1,301.50 sf	1,301.50 sf	.00 sf
1st Floor	1,301.50 sf	213.87 sf	1,087.63 sf
2nd Floor	1,301.50 sf	100.02 sf	1,201.48 sf
3rd Floor	1,301.50 sf	100.02 sf	1,201.48 sf
4th Floor	1,301.50 sf	100.02 sf	1,201.48 sf
Roof	265.25 sf	265.25 sf	.00 sf
Total:	6,772.75 sf	2,080.68 sf	4,692.07 sf

1.1 ROOF DEDUCTIONS
 Scale: 1/8"=1'-0"



03/05/2020	DOB SUBMISSION
11/25/2020	DOB SUBMISSION
10/22/2020	DOB SUBMISSION

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

GENERAL NOTES

1. THE PROPOSED WORK ON THIS PLAN SHALL COMPLY WITH THE 2014 NEW YORK CITY BUILDING CODE REQUIREMENTS.
2. THE GENERAL CONTRACTOR SHALL OBTAIN CONSTRUCTION PERMIT AND PAY ALL REQUIRED FEES TO THE D.O.B. BASED ON THE PROPOSED WORK OF THIS DRAWING FROM NEW YORK CITY BUILDING DEPARTMENT PRIOR TO START OF WORK.
3. ALL ELECTRICAL WORK BEING PERFORMED SHALL BE BY A LICENSED ELECTRICIAN IN ACCORDANCE WITH NEW YORK CITY ELECTRICAL CODE., AND SHALL BE REQUIRED TO OBTAIN ALL REQUIRED SIGN-OFFS AND CERTIFICATE OF COMPLETIONS FROM THE B.E.C.
4. ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE AND INSPECTION REQUIREMENTS. HE SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED PLUMBING SIGN-OFFS AND INSPECTIONS FROM THE DEPARTMENT OF BUILDING'S PLUMBING DIVISION.
5. DIMENSIONS ON THE SITE PRIOR TO START OF WORK. HE SHALL NOTIFY THE ARCHITECT/ENGINEER OF RECORD ANY DISCREPANCIES AND/OR CHANGE OF LAYOUT BETWEEN THE FIELD CONDITIONS AND THIS DRAWING(S) IMMEDIATELY. FAILURE TO DO SO WILL INDICATE THE GENERAL CONTRACTOR'S ACCEPTANCE OF THIS DRAWING(S) AND WILL TAKE FULL RESPONSIBILITY FOR SAID WORK BEING PERFORMED.
6. THE TERMS "GENERAL CONTRACTOR", "GEN. CONTRACTOR", "GEN CONTR.", AND "G.C." SHALL BE UNDERSTOOD TO BE THE SAME UNLESS SPECIFICALLY NOTED OTHERWISE.
7. THE OWNER SHALL RETAIN THE SERVICES OF A LICENSED ARCHITECT/ENGINEER FOR ALL REQUIRED CONTROLLED INSPECTIONS.
8. THE GENERAL CONTRACTOR SHALL OBTAIN SIGN-OFF FROM THE DEPARTMENT OF BUILDING AFTER COMPLETION OF WORK.
9. TOP OF ARCHITECTURAL FINISH OF FIRST FLOOR SEATING ELEVATION=0'-0" FOR THE PURPOSES OF THESE CONTRACT DOCUMENTS.
10. THE CONTRACTOR SHALL VISIT THE SITE AND SHALL BE KNOWLEDGEABLE OF CONDITIONS THEREON. HE SHALL INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT AND SHALL NOTIFY THE OWNER OF ANY CONDITIONS REQUIRING MODIFICATIONS BEFORE PROCEEDING WITH THE WORK.
11. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS. ALL NOTES ARE TO BE REVISED AND APPLIED TO RELATED BUILDING COMPONENTS.
12. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON ANY ONE SHEET ARE TO BE APPLIED TO RELATED DRAWINGS AND DETAILS.
13. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED. WHERE SPECIFIED DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
14. ALL ELEVATOR AND STAIR OPENINGS SHALL BE CERTIFIED BY THE ELEVATOR SUBCONTRACTOR PRIOR TO FORMING. REQUIRED MODIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR APPROVAL PRIOR TO FORMING.
15. REFER TO CERTIFIED MECHANICAL AND ELECTRICAL CONTRACTOR'S DRAWINGS AND MANUFACTURER'S TEMPLATE DRAWINGS FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, BOLT SETTING TEMPLATES, ISOLATIONS, SPRING ISOLATION, ETC., NOT SHOWN ON THE DRAWINGS.
16. CONTRACTOR TO COORDINATE ALL EQUIPMENT BASE AND HOUSEKEEPING PADS WITH MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS. EQUIPMENT BASES AND HOUSEKEEPING PADS TO BE A MINIMUM OF 4" HIGH UNLESS OTHERWISE NOTED. PROVIDE ONE LAYER OF W/6 EXXXW4 WELDED WIRE FABRIC MINIMUM, TO BE INSTALLED BENEATH THE FULL PROJECTED AREA OF EQUIPMENT.
17. CONCRETE PADS AND MOUNTINGS IN MECHANICAL SPACES SHALL BE COORDINATED WITH ELECTRICAL AND PLUMBING CONTRACTORS.
18. CONTRACTOR TO COORDINATE ALL MECHANICAL AND ELECTRICAL FLOOR AND WALL SLEEVES AND ALL MECHANICAL SHAFTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS.
19. PROVIDE ACCESS PANELS AS APPLICABLE AND AS REQUIRED FOR MECHANICAL EQUIPMENT. ALL ACCESS PANELS SHALL BE CONCEALED, AND LOCATIONS SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO PROCEEDING.
20. PORTABLE FIRE EXTINGUISHERS LOCATED ON THE DRAWINGS SHALL RECEIVE APPROVAL OF FIRE DEPARTMENT PRIOR TO INSTALLATION.
21. DRAWINGS SHALL NOT BE SCALED, USE INDICATED DIMENSIONS ONLY.
22. ALL STRUCTURAL ELEMENTS WHICH DO NOT REQUIRE FIREPROOFING SHALL BE FIELD PAINTED.
23. ALL EXTERIOR HANDRAILS AND EXTERIOR EXPOSED METAL SHALL BE GALVANIZED AND PAINTED UNLESS NOTED OTHERWISE.
24. ALL EXTERIOR DOORS SHALL PREVENT AIR LEAKAGE/INFILTRATION AROUND THEIR PERIMETER WHEN IN A CLOSED POSITION.
25. ALL EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALLS AND ROOFS, AND BETWEEN WALLS AND PANELS AT PENETRATION OF UTILITIES THROUGH THE ENVELOPE SHALL BE SEALED, CAULKED OR WEATHER STRIPPED TO PREVENT AIR LEAKAGE/INFILTRATION.
26. ALL EXTERIOR SOFFITS SHALL BE CONSTRUCTED WITH RIGID GALVANIZED METAL FRAME MEMBERS AND SHALL RESIST UPLIFTING WIND LOADS OF 1.5 TIMES THE WIND PRESSURE DIAGRAM.
27. ALL EXTERIOR SOFFITS SHALL BE INSTALLED TO PROVIDE A 'U' VALUE OF 0.09 SHALL HAVE A VAPOR BARRIER AND SHALL BE PROPERLY SEALED AGAINST AIR INFILTRATION.
28. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID MOLECULAR BREAKDOWN.
29. ALL DIMENSIONS ARE FROM FINISH TO FINISH, UNLESS OTHERWISE NOTED.
30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL AND REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF WORK.
31. THE CONTRACTOR SHALL REPLACE AND REPAIR MISSING, BROKEN SIDEWALK, CURB, OR ROADWAY DAMAGE DURING CONSTRUCTION AS DIRECTED BY THE BOROUGH

OCCUPANCY RESISTANCE RATINGS

1. USE AND OCCUPANCY CLASSIFICATION: R-2 MULTI-UNIT RESIDENTIAL
2. CONSTRUCTION: TYPE IB NON-COMBUSTIBLE CONSTRUCTION - SPRINKLERED.
3. ALL RATED PARTITIONS SHALL RUN PAST STRUCTURAL BEAMS, TO THE UNDERSIDE OF STRUCTURAL SLAB, WHERE THE PARTITIONS TERMINATE TO THE UNDERSIDE OF STRUCTURAL BEAMS, THE STRUCTURAL BEAMS SHALL HAVE ADDITIONAL SPRAYED-ON FIREPROOFING TO ACHIEVE AN AREA SEPARATION RATING EQUAL TO THAT OF THE PARTITION RATING, IF REQUIRED.
4. SPACE BETWEEN SLAB AND EXTERIOR WALL AND ALL OPENINGS IN THE FLOOR SLABS INCLUDING SPACES BETWEEN DUCTS, CONDUIT, PIPING, ETC., (EXCEPT WHEN COMPLETELY ENCLOSED BY FIRE RATED CONSTRUCTION), SHALL BE SAFED: OFFILLED) WITH APPROVED SAFING MATERIAL TO MAINTAIN FIRE RATING CONTINUITY OF THE FLOOR CONSTRUCTION. ALL JOINTS OF ANY ELEMENT OF CONSTRUCTION SHALL BE TIGHT AND PREVENT THE PASSAGE OF SMOKE OR FLAME.
5. WHERE MASONRY WALLS AT INTERIOR LOT LINES ARE BROKEN TO ACCOMMODATE STRUCTURE THEREBY REDUCING THE FIRE RATING OF THE WALL AT THE STRUCTURE, THEN THE STRUCTURE SHALL BE FIREPROOFED AT THE REQUIRED WALL RATING.
6. ALL FIRE RESISTIVE (LABELED) FIRE DOORS SHALL HAVE THE APPROPRIATE LABELS AFFIXED TO BOTH DOOR AND FRAME.
7. A FINISH OR FIRE RATING INDICATION ON A WALL SHALL MEAN THE ENTIRE LENGTH OF WALL IS TO BE FINISHED OR FIRE RATED AS INDICATED.
8. ALL PIPING, DUCTS, ETC., THAT PENETRATE FLOOR SLABS SHALL BE INSTALLED IN A MANNER THAT WILL PRESERVE THE FIRE RESISTIVE AND STRUCTURAL INTEGRITY OF THE BUILDING.
9. WHERE INTERIOR FINISH MATERIALS ARE SPACED (FURRED) FROM THEIR SUPPORTING MEMBERS, THE CONCEALED SPACES CREATED SHALL BE FIRE STOPPED AS REQUIRED BY CODE.

DIMENSIONING

1. ALL WALLS ARE ORTHOGONAL TO THE PROPERTY LINES UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE KNOWLEDGEABLE OF WHICH PROPERTY LINE DETERMINES THE ORIENTATION OF EACH WALL, AND SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS REQUIRING CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
2. PARTITIONS ARE DIMENSIONED TO THE UNFINISHED FACE OF THE WALL UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE.
4. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE PROCEEDING TO WITH THE WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY CORRECTIONS.
5. DOOR OPENINGS ARE GENERALLY DIMENSIONED TO CENTERLINE OF OPENING. DOOR OPENINGS THAT ARE NOT DIMENSIONALLY LOCATED ARE TO BE CENTERED BETWEEN WALLS OR POSITIONED WITH ONE JAMB AGAINST AND ADJACENT WALL OR COLUMN AS SHOWN ON THE PLANS AND/OR DETERMINED FROM THE DETAILS.
6. WHEN UNDIMENSIONED PARTITIONS APPEAR IN CONJUNCTION WITH DOOR OPENINGS THE DOOR WIDTH AND DOOR FRAME DETAILS DETERMINE THE LOCATION OF THE ADJACENT WALLS AND FRAMES.

PARTITION NOTES

1. DEFLECTION FOR ALL PARTITIONS SHALL NOT EXCEED 1/240TH OF THE SPAN MAXIMUM FOR TYPICAL GYPSUM PARTITIONS, OR 1/360 FOR WOOD-CLAD PARTITIONS, OR STONE-CLAD PARTITION SYSTEMS.
2. WATER RESISTANT DRYWALL (FOR THE FULL HEIGHT OF THE PARTITION CONSTRUCTION) SHALL BE USED IN TOILETS, SHOWERS, SERVICE ROOMS, ETC. USE STANDARD GYPSUM BOARD FOR CEILING CONSTRUCTION.
3. PENETRATIONS: COORDINATE WITH MECHANICAL CONTRACTOR FOR OPENINGS REQUIRED FOR RETURN AIR IN FULL HEIGHT PARTITIONS.
4. PROVIDE LATERAL BRACING TO STRUCTURE ABOVE FINISHED CEILINGS FOR PARTITIONS EXCEEDING UNSUPPORTED HEIGHTS INDICATED ON DRAWINGS.
5. PROVIDE HORIZONTAL CONTROL JOINTS AT 12'-0" O.C. IN THE VERTICAL DIRECTION UNLESS NOTED OTHERWISE.
6. PROVIDE CONTROL JOINTS IN GYPSUM WALLBOARD CONSTRUCTION SUCH THAT PARTITION OR FURRING RUNS DO NOT EXCEED 30', AND CEILING DIMENSIONS DO NOT EXCEED 50' IN EITHER DIRECTION WITH PERIMETER RELIEF OR 30' WITHOUT PERIMETER RELIEF.
7. PROVIDE VERTICAL CONTROL JOINTS WITH SEALANT IN MASONRY WALLS AS SHOWN IN DRAWINGS WITH MAXIMUM SPACING OF 25'-0".
8. COMPLETELY SEAL WITH ACOUSTICAL SEALANT HEADS, BASES, AND ENDS, PLUS ALL PENETRATIONS (INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, AND PLUMBING WORK).
9. PROVIDE SOUND BLANKETS AS INDICATED.

FINISHES AND DETAILS

1. INTERIOR FINISHES SHALL BE CLASSIFIED IN ACCORDANCE WITH SURFACE FLAME SPREAD RATINGS AND SHALL BE USED IN ACCORDANCE WITH CHAPTER 8, SECTION 803.
2. INTERIOR FLOOR FINISH SHALL BE TESTED IN ACCORDANCE TO NFPA 253. WOOD FINISH FLOORING IS PERMITTED TO BE ATTACHED DIRECTLY TO THE EMBEDDED OR FIREBLOCKED WOOD SLEEPERS AND SHALL BE PERMITTED WHERE CEMENTED DIRECTLY TO THE TOP SURFACE OF APPROVED FIRE-RESISTANCE RATED CONSTRUCTION OR DIRECTLY TO A WOOD SUBFLOOR ATTACHED TO SLEEPERS AS PROVIDED IN SECTION 804.4.1.
3. ALL DECORATIONS AND TRIM SHALL COMPLY WITH THE REQUIREMENTS OF THE NEW YORK CITY FIRE CODE.

ADMINISTRATIVE

1. THE ARCHITECT/ENGINEER HAS NOT BEEN RETAINED FOR THE SUPERVISION OF WORK & IT REMAINS INCUMBENT ON THE CONTRACTOR TO INFORM THE BUILDING DEPARTMENT OR THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CHANGES ON THE APPROVED PLANS.
2. NO WORK IS TO BE STARTED UNTIL A BUILDING PERMIT HAS BEEN SECURED AS REQUIRED BY THE GOVERNING AGENCIES.
3. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK & SHALL REPORT ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING.
4. ALL WORK OF THE VARIOUS TRADES INVOLVED WITH THE CONSTRUCTION OF THIS PROJECT IS TO BE PERFORMED BY CAPABLE AND REPUTABLE CONTRACTORS, LICENSED IN THE STATE OF NEW YORK & AS REQUIRED BY LOCAL AGENCIES.
5. DO NOT SCALE DIMENSIONS FROM DRAWINGS. WRITTEN DIMENSIONS ARE TO BE FOLLOWED FOR CONSTRUCTION PURPOSES. LARGE SCALE DRAWINGS TAKE PREFERENCE OVER SMALLER SCALE DRAWINGS.
6. NO WORK IS TO BE STARTED UNTIL THE PLANS ARE APPROVED BY THE NEW YORK CITY DEPT. OF BUILDING AND A WORK PERMIT IS OBTAINED.
7. THESE NOTES ARE PART OF THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS AND ARE TO FULLY COMPLIED WITH IN ALL RESPECT.
8. THE CONTRACTOR SHALL BE HELD TO HAVE VISITED THE SITE SO THAT HE MAY DETERMINE THE DIFFICULTIES HE MAY ENCOUNTER DURING CONSTRUCTION.
9. FOUNDATION AND SUBSOIL CONDITIONS HAVE BEEN DESIGNED BASED ON THE INFORMATION CONTAINED WITHIN THE BORINGS AND/OR TEST PITS AS FURNISHED BY THE OWNER. EXACT FOUNDATION REQUIREMENTS ARE SUBJECT TO CHANGE BASED ON CONTROLLED INSPECTIONS OF SUBSOIL CONDITIONS AND MAY VARY FROM THOSE INDICATED ON THESE DRAWINGS.
10. CONTRACTOR/OWNER IS RESPONSIBLE TO NOTIFYING UTILITY COMPANIES TO VERIFY EXACT LOCATIONS OF THEIR UTILITY LINES, SERVICE AND OTHER POSSIBLE EQUIPMENT.
11. THE OWNER SHALL BE RESPONSIBLE FOR THE SAFE MAINTENANCE OF THE BUILDING SITE.
12. PRIOR TO COMMENCEMENT OF WORK THE ADJACENT PROPERTY OWNERS SHALL BE GIVEN 5 DAYS WRITTEN NOTICE BY CERTIFIED MAIL, WHERE ADJACENT PROPERTY IS AFFECTED BY FOUNDATIONS, GRADING, EARTHWORK, OR DEMO WORK.
13. AN ACCURATE AND COMPLETED SURVEY, MADE A LICENSED SURVEYOR, SHALL BE SUBMITTED TO THE APPLICANT OF RECORD AFTER COMPLETION OF WORK SHOWING THE LOCATION AND ELEVATIONS OF ANY NEW BUILDING OR EXTENSION, FINISHED FLOOR ELEVATION, GRADE ELEVATIONS AND SHALL COMPLY TO THE MINIMUM STANDARDS OF THE NYSSPLS.

SITE WORK

1. ALL EXISTING SITE CONDITIONS DAMAGED BY ANY EQUIPMENT, MACHINERY OR CONSTRUCTION, ARE TO BE REPAIRED OR REPLACED TO THEIR EXISTING CONDITIONS PRIOR TO CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
2. ALL FILL MATERIAL SHALL BE SOIL OR SOIL-ROCK MIXTURE FREE FROM ORGANIC MATTER AND OTHER OBJECTIONABLE MATERIAL. IT SHALL CONTAIN NO ROCK OR LUMP OVER 6" IN GREATEST DIMENSION AND NOT MORE THAN 15 COMPANY LINES, SERVICES AND OTHER POSSIBLE EQUIPMENT OF UTILITY COMPANY.
3. GENERAL CONTRACTOR SHALL VERIFY ALL INVERT ELEVATIONS AND SEWER CONDITIONS INDICATED PRIOR TO CONSTRUCTION. ARCHITECT/ENGINEER ASSUMES NO RESPONSIBILITY FOR INFORMATION CONTAINED IN SURVEYS OR SEWER DEPARTMENT RECORDS.
4. VERIFY DEPTHS OF EXISTING ADJACENT PRIOR TO CONSTRUCTION. UNDERPINNING MAY BE NECESSARY AND WILL BE FILED UNDER A SEPARATE APPLICATION.

DEMOLITION NOTES

1. ALL DEMOLITION WORK SHALL BE PERFORMED TO ACCOMMODATE THE CONSTRUCTION PLAN AS SHOWN ON THE DRAWINGS
2. ALL WORK SHALL CONFORM TO THE NEW YORK CITY CODE CONTRACTOR FOR DEMOLISHING WORK SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES CONTRACTOR SHALL VISIT THE SITE & BECOME FAMILIAR WITH CONDITION PRIOR TO COMMENCING WORK. ALL DIMENSIONS & CONDITIONS ARE TO BE VERIFIED IN FIELD. CONTRACTOR SHALL NOTIFY THE ARCHITECT OR THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES FROM THE CONTRACT DOCUMENTS. IF EXISTING FIELD CONDITIONS ARE AT VARIANCE WITH THE RENOVATION LAYOUT.
3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT & AWAIT INSTRUCTIONS REMOVAL OF EXISTING MASONRY AND CONCRETE SHALL BE PERFORMED BY SAW CUTTING. NO JACKHAMMER SHALL BE USED
4. CONTRACTOR SHALL REPAIR & RESTORE ALL DAMAGE CAUSED BY HIS/HER WORK AT NO ADDITIONAL COST TO THE OWNER
5. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS FOR EXISTING STRUCTURES AS REQUIRED BY DEMOLISHING WORK OR NEW CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE BUILDINGS. TEMPORARY BRACING & SHORING SHALL BE AS PER C26-1905 OF THE NY CITY BUILDING CODE EXISTING WALLS SHALL NOT BE REMOVED UNLESS THE STRUCTURE THEY SUPPORT IS FULLY SHORED & BRACED. SUCH SHORING AND BRACING IS TO REMAIN UNTIL NEW SUPPORTS ARE COMPLETED TO THE SATISFACTION AND APPROVAL OF THE ARCHITECT OR STRUCTURAL ENGINEER. CONTRACTOR SHALL IMMEDIATELY REPORT ANY STRUCTURAL DEFECTS OR DEVIATIONS FROM THE CONTRACT DOCUMENTS TO THE ARCHITECT OR STRUCTURAL ENGINEER.
6. DEMOLISHING CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL FIXED & MOVEABLE EQUIPMENT, PIPING & DEBRIS. ALL MATERIALS REMOVED SHALL BE DISPOSED LEGALLY OFF THE SITE.
7. FOR SCOPE OF DEMOLITION, SEE DRAWINGS.
8. REMOVE PARTIAL CONCRETE SLAB & CMU PARTITIONS AS SHOWN ON THE DRAWINGS
9. ALL DEBRIS ARE TO BE REMOVED FROM THE SITE 100
10. DO NOT LOAD OR PERMIT ANY PART OF EXISTING BUILDING TO LOADED OR EQUIPMENT THAT MAY ENDANGER ITS SAFETY. WITH ANY MATERIAL % AREA TO BE LEFT BROOK. CLEANED.

DEMOLITION NOTES

1. ALL STRUCTURAL STEEL SHALL BE NEW AND TO COMPLY WITH AISC SPECIFICATIONS FOR THE DESIGN FABRICATION AND ERECTION FOR STRUCTURAL STEEL FOR BUILDINGS EDITION.
2. ALL STRUCTURAL STEEL TO BE A A-36 UNLESS OTHERWISE NOTED.
3. BEFORE BUILDING PERMIT WILL BE ISSUED, THE CONTRACTOR SHALL SUBMIT A STATEMENT THAT THE STEEL WILL BE ORDERED TO COMPLY WITH THE ABOVE STANDARDS.
4. CONTRACTOR TO SUPPLY ALL TEMPORARY BRACING REQUIRED DURING ERECTION.
5. COORDINATE OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS WITH STRUCTURAL DRAWINGS AND DETAILS.
6. ALL STRUCTURAL STEEL CONNECTIONS SHALL BE MADE WITH A MIN. OF 3/4" H.S. BOLTS AS NOTED.

LIGHT GAUGE NOTES

1. ALL STUDS, JOISTS AND ACCESSORIES SHALL BE MANUFACTURED BY MARINOWARE
2. THE SUGGESTED SPECIFICATION SHOWN IN THE 1999 LIGHT WEIGHT STEEL FRAMING CATALOG ARE APPLICABLE TO ALL WORK SPECIFIED HEREIN.
3. ALL GALVANIZED STUDS 12, 14 AND 16 GAGE AND ALL 12 & 14 GAGE TRACK AND ACCESSORIES SHALL CONFORM TO ASTM A446 GRADE 'D' WITH A MINIMUM YIELD OF 50,000 PSI.
4. ALL GALVANIZED STUDS 18 & 20 AND ALL 16, 18 AND 20 GAGE TRACK AND ACCESSORIES SHALL CONFORM TO ASTM A446 GRADE 'A' WITH A MINIMUM YIELD OF 33,000 PSI.
5. ALL COMPONENTS TO BE ZINC COATED (G60 GALVANIZED) IN ACCORDANCE WITH ASTM A-525.
6. TORCH CUTTING OF MEMBERS OR HOLES ARE NOT PERMITTED.
7. IF ADDITIONAL HOLES ARE REQUIRED IN THE METAL STUDS OR JOISTS, CONTACT A LICENSED PROFESSIONAL ENGINEER FOR GUIDANCE.
8. ALL SCREWS SHALL BE H.W.H #12-14 STANDARD SELF DRILLING SCREWS U.O.N. ON DWGS.
9. ALL SCREW SHALL HAVE AN EDGE DISTANCE OF 1/2" MIN. U.O.N. ON PLAN ALL SCREWS SHALL BE A MINIMUM ONE (1) INCH ON CENTER U.O.N. SCREWS MUST BE SYMMETRICAL ABOVE BOTH CENTER LINES.
10. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 SPECIFICATIONS. ALL WELDS SHALL BE VISUALLY INSPECTED.
11. WEB STIFFENERS SHALL BE PROVIDED AT SUPPORT LOCATIONS AND AT POINTS OF CONCENTRATED LOADS UNLESS SPECIFICALLY SHOWN OTHERWISE HEREIN.
12. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SIGNED & SEALED BY P.E. IN NY.

WOOD & PLASTIC

1. MATERIALS, DESIGN AND CONSTRUCTION OF CARPENTRY SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
A. LUMBER AND TIMBER AS NLMMA 1962, NATIONAL DESIGN SPECIFICATION FOR STRESS GRADE LUMBER AND ITS FASTENINGS, AND AS MODIFIED BY CODE.
B. PLYWOOD SHALL COMPLY WITH APA 1966, PLYWOOD DESIGN SPECIFICATIONS.
2. WOOD STUDS SHALL BE STANDARD GRADE F#8= 1200 PSI
3. DOUBLE UP STUDS AT ALL OPENINGS IN PARTITIONS. BEARING WALL HEADERS ARE TO BE (2) 2"x6" FOR OPENINGS UP TO 36" IN WIDTH. FOR OPENINGS GREATER THAN 36" SEE PLANS.
4. WOOD RAFTERS AND JOISTS SHALL BE OF THE FOLLOWING SPECIES:
A. DOUGLAS FIR, COAST REGION, CONSTRUCTION GRADE F#8= 1400 PSI.
B. HEMLOCK, WEST COAST CONSTRUCTION GRADE F#8= 1400 PSI.
C. SOUTHERN PINE #1 F#8= 1400 PSI.
5. INSTALL SOLID BLOCKING BETWEEN JOISTS AT ALL POINTS OF SUPPORT AND WHENEVER SHEATHING OR FLOOR IS DISCONTINUOUS.
6. FIRESTOP IN THE FOLLOWING SPECIFIC LOCATIONS:
A. ALL STUDS BEARING AND EXTERIOR WALLS AT CEILING AND FLOOR LEVELS INCLUDING ATTIC FLOOR.
B. AT STAIRWELL PARTITIONS.
C. ALL OTHER LOCATIONS WHERE OPENINGS COULD ALLOW PASSAGE OF FLAMES OR AS REQUIRED BY LOCAL GOVERNING AGENCIES.
7. PROVIDE FLASHING AT HEADS AND SILLS OF ALL WINDOWS AND EXTERIOR DOORS.
8. ALL LUMBER TO BE GRADE MARKED PRIOR TO DELIVERY TO THE SITE. GRADE TO BE AS SPECIFIED ON DRAWINGS. PLYWOOD SHALL BEAR SPECIFICATION AS TO GRADE, TYPE, SPECIES OR IDENTIFICATION INDEX.
9. CROSS BRIDGING SHALL BE 5/4"x3" SPRUCE BRIDGING AT 8'-0" O.C. MAX. OR ANY OTHER APPROVED TYPE.
10. DOUBLE UP JOIST UNDER ALL PARALLEL PARTITIONS AND DOUBLE ALL HEADERS AND TRIMMERS AROUND ALL OPENINGS. ALL TAIL BEAMS TO BE RESTED ON APPROVED TYPE 'TICO' CONNECTORS.

CONCRETE WORK

1. PRIOR TO COMMENCEMENT OF WORK, THE ADJACENT PROPERTY OWNER SHALL BE GIVEN 5 DAYS WRITTEN NOTICE BY CERTIFIED MAIL, WHERE ADJACENT PROPERTY IS AFFECTED BY FOUNDATIONS, GRADING, EARTHWORK OR DEMOLITION.
2. UNLESS OTHERWISE SPECIFIED, DESIGN, MATERIAL AND METHOD OF CONCRETE CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE AND A.C.I. AS AMENDED AND ACCEPTED.
3. 3 TEST CYLINDERS SHALL BE MOLDED FOR EACH 50 YDS, OR FRACTION THEREOF, OF EACH CLASS OF CONCRETE IN ANY ONE DAY. SAMPLES SHALL BE TAKEN FROM THE MIXER AS PER A.S.T.M. C172-54, CURED AS PER A.S.T.M. C39-66, & TESTED AT THE AGE OF 28 DAYS AS PER A.S.T.M. C39-66. TESTS SHALL BE PERFORMED BY A LABORATORY ACCEPTED BY THE COMMISSIONER. CYLINDERS REPORT SHALL BE FILED WITH THE DEPT. OF BLDG AS REQUIRED.
4. TEST CYLINDERS SHALL BE STORED IN AN INSULATED CURING BOX, AND LOCATED IN A SAFE PLACE TO MINIMIZE HAZARD OF DISTURBANCE DURING CURING, FREE FROM VIBRATIONS, REMOTE FROM TRAFFIC.
5. NO FOOTINGS SHALL BE INSTALLED UNTIL THE BEARING SURFACE HAS BEEN INSPECTED AND APPROVED BY A SOIL ENGINEER PR AN ARCHITECT RETAINED BY THE OWNER AND/OR CONTRACTOR.
6. SIDES OF EXCAVATIONS TO BE PROTECTED, INCLUDING RELATED OR RESULTING EMBANKMENTS, 5 FEET OR GREATER IN DEPTH.
7. ALL FOOTINGS TO BEAR ON CLEAN, FIRM VIRGIN SOIL CLASS 8-65 SM AND TO HAVE A MIN. COVER OF 4 FEET. DIFFERENCES IN FOOTING LEVELS SHALL BE STEPPED AT A 30 ANGLE OF REPOSE.
8. EXTERIOR FOUNDATION WALLS BELOW GRADE SHALL BE WATERPROOFED WITH 2 COATS OF AN APPROVED TYPE ASPHALT MASTIC TROWELED ON.

MASONRY NOTES

1. CONCRETE MASONRY WORK UNITS SHALL BE LOADED BEARING, AS PER A.S.T.M. C90-1966.
2. MORTAR SHALL COMPLY WITH A.S.T.M. C270-1964, TYPES PROPORTIONED. ONE PART OF PORTLAND CEMENT, 1 PART OF HYDRATED LIME OR LIME PUTTY, AND 6 PARTS OF AGGREGATE.
3. METAL ANCHORS AND TIES SHALL BE CORROSION RESISTANT.
4. PROVIDE "DUR-O-WALL" TRUSS TYPE WALL RE-INFORCEMENT AT EVERY OTHER BLOCK COURSE. PROVIDE CORNER PIECES AND OVERLAP JOINTS AND TIE AS PER MANUFACTURERS SPECIFICATIONS.
5. FABRIC FLASH ALL MASONRY LINTELS AND WEEP AT 32" O.C. MIN.

THERMAL & MOISTURE PROTECTION

1. ALL VENT PIPES OR OTHER PROTRUSIONS IN THE ROOF ARE TO BE PROPERLY FLASHED WITH BASE AND CAP FLASHING OR EQUAL AS APPROVED BY THE ARCHITECT/ENGINEER OR OWNER.
2. ASPHALT SHINGLE ROOF WHERE INDICATED ON DRAWINGS SHALL BE STANDARD SELF SEALING, 235 LBS PER SQUARE AS MANUFACTURED "GAF" CORPORATION AND IS TO BE INSTALLED OVER #15 ASPHALT FELT UNDERLAYMENT AND AS RECOMMENDED BY THE MANUFACTURER.
3. PROVIDE ALL FLASHING AND SHEET METAL NOT SPECIFICALLY DESCRIBED BUT REQUIRED, TO PREVENT PENETRATION OF WATER THRU EXTERIOR SHELL OF THE BUILDING.
4. USE ONLY GALVANIZED NAILS AND FASTENERS FOR ALL ROOFING OR FLASHING APPLICATIONS.
5. CAULK AND SEAL ALL JOINTS WITH SILICONE CAULK WHERE SHOWN ON THE DRAWINGS AND ELSEWHERE AS REQUIRED TO PROVIDE A POSITIVE BARRIER AGAINST PASSAGE OF AIR AND PASSAGE OF MOISTURE.
6. INSULATION TO BE OWEN/CORNING FIBERGLASS OR EQUAL APPROVED BY THE ARCHITECT/ENGINEER, WITH THE VAPOR BARRIER INSTALLED ON WARM SIDE ONLY.
7. ALL VAPOR BARRIER, WHERE REQUIRED SHALL BE MOISTOP VAPOR BARRIER BY FORTIFIBER CORP. ROLLED DOWN IN THE WIDEST WIDTH PARALLEL WITH DIRECTION OF THE POUR. ALL JOINTS TO BE OVERLAPPED NO LESS THAN 6" AND SEALED WITH FORTIFIBER GRADE 495 PRESSURE SENSITIVE TAPE.
8. RIGID INSULATION WHEN SPECIFIED SHALL BE DECKMATE INSULATION BOARD BY 'STYROFOAM' FOR ROOF AND CAVITY MATE BY 'STYROFOAM' FOR STUD CAVITY WALL OR AS OTHERWISE SPECIFIED ON THE DRAWINGS.
9. MODIFIED ROOFING WHEN SPECIFIED SHALL BE 197 MIL RUBBEROID TORCH FR MODIFIED BITUMEN MEMBRANE AS MANUF. BY G.A.F. BUILT UP ROOFING WHEN SPECIFIED SHALL BE 4 PLY SMOOTH SURFACE BUILT-UP ROOFING AS MANUF. BY G.A.F.

MISCELLANEOUS

1. HEAT SPACE WITH NEW YORK CITY APPROVED HEATING SYSTEM CAPABLE OF PRODUCING A MIN. TEMPERATURE OF 72 F. WHEN THE OUTDOOR TEMPERATURE IS 5 F AND THE WIND VELOCITY IS 15 mph. SYSTEM DESIGN TO COMPLY WITH THE N.Y.S. ENERGY CODE.
2. ALL HEATING, AIR CONDITIONING, AND MECHANICAL VENTILATION AND RELATED WORK REMAINS THE RESPONSIBILITY OF THE OWNER AND RELATED CONTRACTOR INCLUDING BUT NOT LIMITED TO: FILING NECESSARY PLANS AND DOCUMENTS, OBTAIN ALL APPROVALS, PERFORMING ALL TESTS, AS MAY BE REQUIRED BY THE NEW YORK CITY CODES AND GENERAL PROVISIONS.
3. ALL ELECTRICAL WORK REMAINS THE RESPONSIBILITY OF THE OWNER AND RESPECTIVE CONTRACTOR. REFLECTED CEILING PLAN IS TO BE USED FOR LOCATION OF LIGHT FIXTURES ONLY AND IT IS NOT INTENDED FOR USE AS A CIRCUIT WIRING DRAWINGS. CAPACITY OF CIRCUITS AND ALL OTHER REQUIRED WORK IS TO BE PERFORMED IN STRICT ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
4. IT IS THE ELECTRICAL CONTRACTOR AND/OR OWNER RESPONSIBILITY TO OBTAIN THE ELECTRICAL SIGN-OFF FROM THE BUREAU OF ELECTRICAL ENFORCEMENT. ALL CONTROL NUMBERS, FOR THE WORK DONE, SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT/ENGINEER OF RECORD.
5. ALL PLUMBING WORK IS TO BE INSTALLED IN STRICT ACCORDANCE WITH THE NEW YORK CITY PLUMBING & BUILDING CODE.
6. ALL PLUMBING INSPECTIONS AND CERTIFICATIONS ARE THE RESPONSIBILITY OF THE OWNER AND MUST BE COMPLETED BEFORE ANY COMPLETION OF WORK CERTIFICATE, OR CERTIFICATE OF OCCUPANCY IS ISSUED BY THE NEW YORK CITY DEPARTMENT OF BUILDING.

CONTROLLED INSPECTION REQUIREMENTS

1. ALL STRUCTURAL WORK SHALL BE SUBJECTED TO CONTROLLED INSPECTIONS MADE & WITNESSED BY OR UNDER THE DIRECT SUPERVISION OF THE ARCHITECT OR ENGINEER RETAINED BY THE OWNER

CONTRACTORS SUBMITTALS

1. CONTRACTOR SHALL PROVIDE THE FOLLOWING FORMS TO THE APPLICANT FOR SUBMITTAL TO THE DEPARTMENT OF BUILDINGS.
A. CONCRETE MASONRY FORMS 10H AND 10J
B. QUALITY OF STEEL AFFIDAVIT FORM 2055.

PROJECT 32 EAST 29TH STREET BROOKLYN, NY 11226
ARCHITECT ARC Architecture + Design Studio
STRUCTURAL ENGINEER R&O Engineering P.C.
MECHANICAL ENGINEER Fabian Cruz, PE PLLC

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GENERAL NOTES

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STANDARD TREE PROTECTION NOTES

1. ANYONE PERFORMING ANY AND ALL WORK PERFORMED WITHIN 50 FEET OF A CITY TREE MUST USE PROPER AND SAFE METHODS TO AVOID UNSAFE, HAZARDOUS AND OTHER CONDITIONS WHICH MAY BE DETRIMENTAL OR POTENTIALLY DETRIMENTAL TO ANY CITY TREE. IT IS INCUMBENT UPON THE APPLICANT TO ASCERTAIN AS TO WHETHER OR NOT THERE ARE ANY TREES OR TREE ROOTS SITUATED WITHIN THE CITY RIGHT OF WAY, ANY AND ALL TREES THAT FALL WITH THE JURISDICTION OF THE NYC PARKS DEPARTMENT ARE PROTECTED BY LAW FROM ANY AND ALL DAMAGE THERETO INCLUDING BUT NOT LIMITED TO ANY INCIDENTAL DAMAGES, DAMAGE TO THE CANOPY, OR DAMAGE TO THE TRUNK OR ROOT ZONE DURING AND IN THE COURSE OF ANY AND ALL CONSTRUCTION ACTIVITIES, AND ALSO THE AFTERMATH OF ANY AND ALL CONSTRUCTION ACTIVITIES. NO CUTTING OR OTHERWISE DAMAGING OF TREE ROOTS IS PERMITTED. ANY AND ALL TREE WORK MUST BE PERMITTED, TREE WORK PERFORMED ABSENT A PERMIT CAN PRECIPITATE SERIOUS FINANCIAL AND LEGAL REPERCUSSIONS, VIOLATIONS AND MISDEMEANORS ARE PUNISHABLE BY A FINE NOT TO EXCEED \$15,000 AND/OR IMPRISONMENT FOR UP TO ONE YEAR, ANY AND ALL APPLICATIONS RELATING TO CONSTRUCTION ACTIVITIES MUST BE ACCOMPANIED BY THE APPROPRIATE DOCUMENTATION AS REQUESTED PER P-A FORESTRY APPLICATION OR UPON FORESTER REQUEST.

QUALITY HOUSING NOTES

28-01 APPLICABILITY OF THIS CHAPTER REGIONS AND HOUSING PROGRAMS AS A SPECIFIC SET OF STANDARDS AND REQUIREMENTS THAT, IN CONJUNCTION WITH THE #BLK# PROVISIONS FOR QUALITY HOUSING BUILDINGS# SET FORTH IN ARTICLE II, CHAPTER 3, AND ARTICLE III, CHAPTER 5, AS APPLICABLE, APPLY TO #BUILDINGS# CONTAINING #RESIDENCES#, #LONG-TERM CARE FACILITIES# OR PHILANTHROPIC OR NON-PROFIT INSTITUTIONS WITH SLEEPING ACCOMMODATIONS, OR SOME COMBINATION THEREOF AS FOLLOWS: (A) (B) (C) (D) (3/22/16)

MULTIPLE DWELLING LAW NOTES

1. BUILDING SHALL CONFORM TO ART. 7 AND APPLICABLE PROVISIONS OF ART. 3 M.D. 2. ROOMS IN BASEMENT TO COMPLY WITH SEC. 216, SEC. 34 (8) M.D.L. CEILING HEIGHTS TO COMPLY WITH SEC. 2218 SUB (8) M.D.L. 4. VENTILATION OF PUBLIC HALLS AND STAIRS TO COMPLY WITH SEC. 233 (5) TO SEC. 238 M.D.L. 3. HOUSE NUMBERS SHALL BE PROPERLY DISPLAYED AS PER SEC. 886 CITY CHARTER 4. VENTILATION OF PUBLIC HALLS AND STAIRS TO COMPLY WITH SEC. 233 (5) TO SEC. 238 M.D.L. 5. EGRESS TO COMPLY WITH SECTION 231 M.D.L. STAIR TO MEET SECTION 233 (5) TO SECTION 238 M.D.L. 6. FIRE ESCAPES SHALL CONFORM TO SEC. 53 M.D.L. AND BUILDING DEPARTMENT RULES AND REGULATIONS. 7. BULKHEADS TO COMPLY WITH SEC. 233 M.D.L. DOOR TO BE FIRE PROOF AND SELF CLOSING. 8. PUBLIC HALLS AND STAIRS TO MEET SEC. 234, STAIRS AND PUBLIC HALLS TO BE 3'-0" MIN. DOORS TO BE FIRE PROOF AND SELF CLOSING. 9. STAIRS TO COMPLY WITH SEC. 235, 237, 238, 239 AND 52 M.D.L. APARTMENT ENTRANCE DOORS AND ASSEMBLY TO BE FIRE PROOF AND SELF CLOSING. WINDOWS IN STAIR HALL TO BE GLAZED WITH WIRE GLASS BALUSTRADE AND RAILING TO BE 2'-6" MIN. AND 2'-8" MAX ABOVE FRONT EDGE OF TREADS AND TO BE 2'-3" MIN. AND 3'-0" MAX ABOVE LANDING. 10. ENTRANCE TO COMPLY WITH SEC. 238. HALL TO BE 3'-6" CLEAR WIDTH UP AND INCLUDING STAIR ENCLOSURE AND BEYOND THAT TO BE 3'-0" CLEAR WIDTH. 11. FIRST TIER OF BEAMS TO COMPLY WITH SECTION 240 M.D.L. TO BE FIREPROOF. EXPOSED STEEL BELOW FLOOR ARCH TO BE FIRE RETARDED. 12. PARTITIONS AND FIRE STOPPING TO COMPLY WITH SECTION 241 M.D.L. SOUNDPROOFING BETWEEN APARTMENTS AND PUBLIC HALLS SHALL COMPLY WITH SECTION 84 M.D.L. 13. SPACES UNDER STAIRS TO COMPLY WITH SEC. 244 M.D.L. NO CLOSETS CONSTRUCTED UNDER STAIRS LEADING FROM ENTRANCE STAIRWAY TO UPPER STORIES. SPACE TO BE CLEAR AND FREE OF ENCUMBRANCES. 14. COOKING SPACES TO COMPLY WITH SECTION 33 M.D.L. CEILING AND WALLS TO BE FIRE RATED. MAINTAIN 2'-6" MIN. CLEAR ABOVE GAS RANGES PROTECT ALL COMBUSTIBLE APPARATUS AS PER SECTION 33 M.D.L. 15. GAS RANGES SHALL BE A.G.A. AND /OR GSA APPROVED AS PER SECTION 33 M.D.L. 16. PROVIDE FRONT COURT AND REAR YARD LIGHTING AS PER SECTION 26 SUB (7A) AND 35 M.D.L. 17. ENTRANCE DOORS AND LIGHTS TO COMPLY WITH SECTION 35 M.D.L. 18. ARTIFICIAL HALL LIGHTING TO COMPLY WITH SECTION 37 AND 217 M.D.L. 19. PROVIDE ENTRANCE DOOR, ENTRANCE DOOR LOCK AND INTER COMMUNICATIONS SYSTEMS AS PER SECTION 50 M.D.L. 20. TRASH COMPACTOR CHUTE TO COMPLY WITH SECTION 51 M.D.L. TO HAVE PROOF ENCLOSURE AND FIREPROOF DOORS AND SELF CLOSING ASSEMBLIES. 21. PEEPHOLES TO COMPLY WITH SECTION 51-A M.D.L. 22. MAIL RECEPTACLES TO COMPLY WITH SECTION 57 M.D.L. 23. PARAPETS AND GUARDRAILS TO COMPLY WITH SECTION 57 M.D.L. 24. LIGHTING, GAS METERS AND APPLIANCES ON PREMISES SHALL COMPLY WITH SECTION 64 M.D.L. NO GAS METER SHALL BE LOCATED IN BOILER ROOM. 25. BOILER ROOM SHALL COMPLY WITH SECTION 65 M.D.L. ENCLOSED IN FIREPROOF WALLS AND ALL OPENINGS TO BE EQUIPPED WITH FIRE PROOF DOORS AND ASSEMBLIES WITH SELF CLOSING DOORS. 26. SMOKE DETECTORS TO COMPLY WITH SEC. 68 M.D.L. 27. WATER CLOSETS TO COMPLY WITH SEC. 76 M.D.L. ALL BATHROOMS SHALL HAVE CERAMIC TILE FLOORS AND 6" MIN. CERAMIC TILE SANITARY TUB COVE BASE AT PERIMETER ON FLOOR AND "WR" GYPSUM BOARD FINISHED ON WALLS (BSA NO. 486-39 SM). BATHROOMS TO BE VENTED NATURALLY AS PER SECTION 76 M.D.L. OR MECHANICALLY WITH FOUR (4) CHANGES PER HOUR AND SHALL OPERATE AIR BETWEEN 6 AM. TO MIDNIGHT, NO NOISANCE NOISE OR VIBRATION SHALL BE CREATED BY VENTILATING MOTORS. ALL BATHROOM WINDOWS TO HAVE TRANSLUCENT GLASS. 28. PLUMBING AND DRAINAGE TO COMPLY WITH SECTION 7 M.D.L. 29. ALL NEW PLUMBING FIXTURES TO BE AS PER OWNER'S REQUEST AND BUILDING CODE. 30. ALL NEW WATER LINES TO BE COPPERIZED BRASS, NO PVC PIPING IS TO BE USED. 31. WOOD WAINSCOTTING IN PUBLIC HALLS. 32. ALL WINDOW DIMENSIONS ARE BSB (TO BE VERIFIED IN FIELD BY CONTRACTOR PRIOR TO ORDERING WINDOWS) BRICK TO BRICK. 33. ALL NEW BATHROOM PARTITIONS TO RECEIVE 5/8" MOISTER RESISTANT WALL BOARD, CAL NO. 756-62 SM ON BATHROOM SIDES ONLY. 34. WHETHER BELLS ARE INSTALLED AT THE ENTRANCE TO ANY MULTIPLE DWELLING OR AT ANY DOOR OF AN INDIVIDUAL IT SHALL BE KEPT IN GOOD WORKING ORDER AS PER ART. III SECTION 57 35. IN ACCORDANCE WITH SECTION 84 OF THE MDL CONSTRUCTION STANDARDS FOR THE CONTROL OF NOISE, ON OR BEFORE JANUARY FIRST, NINETEEN HUNDRED AND THIRTY NINE, THE CITY HAS ADOPTED, PROMULGATED, ADOPT, PROMULGATE AND THEREAFTER FROM TIME TO TIME AMEND STANDARDS OF SOUND RETARDATION FOR THE WALLS, PARTITIONS AND FLOORS AND CEILINGS BETWEEN APARTMENTS AND BETWEEN APARTMENTS AND PUBLIC SPACES SITUATED THEREIN BASED ON THE DIRECT MEASUREMENT OF SOUND TRANSMISSION LOSS DETERMINED IN DECIBELS FOR VARIOUS FREQUENCIES OR IN ACCORDANCE WITH THE ASTM SOUND TRANSMISSION CLASS SYSTEM OR IN ACCORDANCE WITH SUCH OTHER RECOGNIZED METHOD OR SYSTEM FOR MEASURING REDUCTION OF SOUND TRANSMISSION AS THE DEPARTMENT MAY DETERMINE TO BE APPROPRIATE. ANY CONSTRUCTION OF A MULTIPLE DWELLING COMMENCED AFTER JANUARY FIRST, NINETEEN HUNDRED SEVENTY SEVEN SHALL COMPLY WITH THE STANDARDS PROMULGATED PURSUANT TO THIS SECTION IN EFFECT AT THE TIME OF COMMENCEMENT OF SUCH CONSTRUCTION.

PLUMBING AND DRAINAGE NOTES

1. ALL PLUMBING AND GAS PIPING WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE SUBCHAPTER 16 AND REFERENCE STANDARD RS-16 OF THE NEW YORK CITY BUILDING CODE. 2. ALL MATERIALS AND EQUIPMENT INSTALLED SHALL BE OF MANUFACTURE AND MODEL APPROVED FOR USE IN NEW YORK CITY, COMPLETE WITH M.E.A. APPROVAL NOS. 3. ALL GAS-FIRED EQUIPMENT TO BE A.G.A OR M.E.A. APPROVED. 4. PLUMBING CONTRACTOR TO EXAMINE PROPOSED LAYOUT WITH REGARD TO EXISTING FIELD CONDITIONS, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN ASSUMED FIELD CONDITIONS AND THOSE ENCOUNTERED DURING CONSTRUCTION. PLUMBING CONTRACTOR SHALL INFORM ARCHITECT OF ANY REVISIONS TO PLAN WHICH SHALL BE NECESSARY, BASED ON CONDITIONS UNCOVERED IN THE FIELD, IN ORDER TO INSTALL ALL FIXTURES, EQUIPMENT AND PIPING IN STRICT ACCORDANCE WITH REQUIREMENTS OF THE NEW YORK CITY BUILDING CODE AND/OR AS PER DESIGNS SHOWN IN THE CONTRACT DOCUMENTS. 5. PLUMBING CONTRACTOR SHALL ARRANGE AND OBTAIN INSPECTIONS AND REQUIRED SIGN-OFFS. 6. WATER SUPPLY BRANCHES AND RISERS SHALL BE SIZED TO PRODUCE VELOCITIES NOT IN EXCESS OF 8 FPS FOR THE PROBABLE DEMAND FLOW. 7. A SHUT-OFF VALVE AND DRAIN VALVE SHALL BE INSTALLED AT THE FOOT OF EACH WATER SUPPLY RISER, AS PER RS-16,107.69(B).

MECHANICAL VENTILATION NOTES

1. ALL BATHROOM AND TOILET ROOMS TO HAVE MECHANICAL VENTILATION PROVIDING MINIMUM 50 CFM EXHAUST. BATHROOM DUCT RISERS TO BE 8X8, MINIMUM 18 GA SHEET METAL. 2. ALL KITCHENETTES TO BE PROVIDED WITH MECHANICAL VENTILATION PROVIDING MIN 125 CFM EXHAUST KITCHEN DUCT RISERS TO 8X10, MINIMUM 18 GA SHEET METAL. 3. DUCT RISERS TO BE FIRE RETARDED WITH TWO (2) LAYERS TYPE 'X' GYPSUM BOARD ON ALL SIDES, ATTACHED WITH CONSTRUCTION ADHESIVE AND 18 GA WIRE TIES @ 4'-0" O.C. (NO SCREWS TO BE USED). 4. WHERE DUCTS PASS THROUGH FLOOR, FLOOR OPENINGS TO BE CUT TIGHT TO DUCT, AND REMAINING GAP BETWEEN DUCT AND FLOOR CONSTRUCTION TO BE FILLED WITH MINERAL WOOL. 5. EACH BATHROOM AND KITCHEN TO BE EQUIPPED WITH ITS OWN INDEPENDENT EXHAUST BLOWER WITH BACKDRAFT DAMPER. 7. ALL DUCT WORK SHALL BE CONSTRUCTED AS PER RS-13-1 (301), DUCT HANGERS SHALL BE AS PER RS-13-1 (319). 8. MINIMUM 8'X8' OUTDOOR AIR INTAKE (F.A.I.) WITH BS&A APPROVED FIRE DAMPER TO BE PROVIDED FOR BOILER ROOM.

SMOKE DETECTING NOTES

1. SMOKE DETECTING DEVICES SHALL CONFORM TO SUBCHAPTER 17, ARTICLE 60F THE BUILDING CODE. 2. SMOKE DETECTING DEVICES SHALL RECEIVE THEIR PRIMARY POWER FROM BUILDING WIRING. THERE SHALL BE NO SWITCHES IN THE CIRCUIT OTHER THAN THE OVERCURRENT DEVICE PROTECTING THE BRANCH CIRCUIT. 3. ALL SMOKE DETECTING DEVICES SHALL BE ACCEPTED PURSUANT TO RULES AND REGULATIONS PROMULGATED BY THE COMMISSIONER, APPROVED BY THE BOARD OF STANDARDS AND APPEALS LISTED BY A NATIONALLY RECOGNIZED INDEPENDENT LABORATORY. NO DEVICE SHALL BE DEEMED TO BE IN COMPLIANCE WITH THIS PROVISION UNLESS IT IS EITHER THE IONIZATION OR PHOTOELECTRIC TYPE. 4. SMOKE DETECTORS TO BE INSTALLED WHICH MEET THE REQUIREMENTS OF RS 4-6, 4.26.3, ADAPTABLE TO PROVIDE FLASHING LIGHTS ARRANGED TO FLASH IN CONJUNCTION WITH AUDIBLE SMOKE DETECTOR ALARM. 5. ACCESSIBLE ROUTES TO BE PROVIDED BETWEEN FACILITIES, PROVIDING A MINIMUM OF 36 INCHES OF WIDTH ALONG THE ACCESSIBLE ROUTE AS PER RS 4-6, 4.3.1, AND A MINIMUM OF 32 INCHES OF WIDTH AT DOORWAYS, AS PER RS 4-6.4.13.5.

CARBON MONOXIDE DETECTORS

1. SMOKE/CARBON MONOXIDE DETECTORS OR DEVICES SHALL BE INSTALLED IN ORDINANCE WITH THE HOUSING MAINTENANCE CODE, MULTIPLE DWELLING LAW, THE NEW YORK CITY BUILDING CODE AND THE NEW YORK CITY ELECTRICAL CODE. 2. SMOKE AND CARBON MONOXIDE DETECTORS MAY BE COMBINED PROVIDING THE DEVICES COMPLY WITH THE PROVISIONS OF TITLE OF THE ADMINISTRATIVE CODE OF THE CITY OF NEW YORK AND ANY APPLICABLE RULES PROMULGATED THEREUNDER. 3. EACH SMOKE/CARBON MONOXIDE DETECTOR SHALL BE INSTALLED IN ACCORDANCE WITH REFERENCE STANDARD 17-12 OF THE NEW YORK CITY BUILDING CODE. 4. EACH SMOKE/CARBON MONOXIDE DETECTOR SHALL BE INSTALLED OUTSIDE OF EACH SLEEPING ROOM IN THE IMMEDIATE VICINITY OR WITHIN 10'-0" OF THE ENTRANCE TO A SLEEPING ROOM. 5. EACH SMOKE/CARBON MONOXIDE DETECTOR SHALL BE OF A TYPE THAT ALLOWS FOR READILY TESTING OF SUCH DEVICE. 6. DUPLEX UNITS SHALL HAVE A DEVICE LOCATED ON EACH LEVEL IF ONLY ONE MEANS OF EGRESS IS PROVIDED FROM EACH LEVEL. 7. CEILING MOUNTED DEVICES SHALL BE A MINIMUM DISTANCE OF 4" FROM ANY WALL. 8. WALL MOUNTED DEVICES SHALL BE A MINIMUM OF 4" TO A MAXIMUM OF 12" FROM THE CEILING. 9. EACH DWELLING UNIT SHALL BE EQUIPPED WITH AN APPROVED TYPE SMOKE/CARBON MONOXIDE DETECTOR DEVICE RECEIVING PRIMARY POWER FROM THE BUILDING WIRING WITH NO SWITCHES IN THE CIRCUIT OTHER THAN THE OVER CURRENT DEVICE PROTECTING THE BRANCH CIRCUIT AS PER NEW YORK CITY BUILDING CODE SEC. 27-980. 10. SUCH SMOKE/CARBON MONOXIDE DETECTORS MUST BE EITHER THE IONIZATION CHAMBER TYPE OR THE PHOTOELECTRIC DETECTOR TYPE AS PER NEW YORK CITY BUILDING CODE SEC. 27-981.(B). 11. A 'CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE/CARBON MONOXIDE DETECTORS' MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT H.P.D., 10 DAYS AFTER INSTALLATION. 12. WRITTEN INFORMATION OF TESTING AND MAINTENANCE OF THE DEVICES SHALL BE PROVIDED TO THE DWELLING UNIT OWNER.

HOUSING MAINTENANCE CODE NOTES

1. OWNER SHALL FILE REGISTRATION STATEMENT AS PER D26-41.01 AND D26-41.03 HMC. 2. OWNER SHALL PROVIDE A SIGN IDENTIFYING OWNER, MANAGEMENT AND SUPERINTENDENT AS PER D26-41.15. 3. FLOOR SIGNS SHALL BE PLACED AND MAINTAINED ON EACH FLOOR LEVEL AS PER D26-21.03 HMC. 4. ALL APARTMENT ENTRANCE DOORS SHALL BE A MINIMUM 3/4 HOUR RATED, SELF CLOSING WITH PEEPHOLES AS PER D26-20.01 HMC AND LOCKS AND CHAIN GUARD AS PER HMC 27-2043. 5. MIRRORS IN ELEVATORS SHALL BE AS PER D26-20.03 HMC. 6. THE BUILDING'S HEATING AND HOT WATER SUPPLY SHALL COMPLY WITH D26-17.01, 17.03, 17.05 AND 17.07 HMC. 7. LIGHTING SHALL BE PROVIDED AS PER D26-19.03, D26-19.05, AND D26-19.07 AND C26-605AC, C26-1203AC AND SECTION 26-35 MDL, HMC. 8. GARBAGE COLLECTION AND STORAGE IN RECEPTACLES SHALL COMPLY WITH D26-14.03 AND D26-14.05 HMC. 9. U.S. MAIL SERVICE SHALL BE PROVIDED AS PER D26-21.01 HMC. 10. THE BUILDING STREET NUMBER SHALL BE DISPLAYED AS PER D26-21.05. 11. JANITORIAL SERVICES SHALL BE PROVIDED AS PER D26-22.03 HMC. 12. OWNER SHALL PAINT ALL PUBLIC PARTS OF A MULTIPLE DWELLING AS PER D26-12.01 HMC. 13. INTERIOR OF DWELLING UNITS SHALL BE CLEANED AS PER D11.05 HMC. 14. DUTIES OF OWNER SHALL BE AS PER D26-10.01 HMC. 15. DUTIES OF TENANTS SHALL BE AS PER D26-10.03 AND 10.05 HMC. 16. OWNER'S RIGHT OF ACCESS SHALL BE AS PER D26-10.07 HMC. 17. EXTERMINATION AND RODENT ERADICATION SHALL BE AS PER D26-13.03 AND 13.05 HMC. 18. WATER SHALL BE SUPPLIED AS PER D26-15.01 &15.03 HMC. 19. THE PLUMBING AND DRAINAGE SYSTEM SHALL BE MAINTAINED AS PER D26-16.01 HMC. 21. NATURAL LIGHT AND VENTILATION SHALL BE PROVIDED AS PER D26-30.014 AND 30.03 HMC FOR MULTIPLE DWELLINGS. 22. SANITARY FACILITIES IN MULTIPLE DWELLINGS AND LIGHT AND VENTILATION FOR TOILET COMPARTMENTS SHALL BE AS PER D26-31.01, 31.03, 31.05, 31.07 AND 31-11 HMC. 23. KITCHENS AND KITCHENETTES SHALL BE PROVIDED WITH PROPER FACILITIES, EQUIPMENT, LIGHTING, VENTILATION AND FIRE PROTECTION AS PER D26-32.01, 32.03, AND 32.05 HMC. 24. MINIMUM ROOM SIZES SHALL BE AS PER D26-33.01 AND MAXIMUM OCCUPANCY SHALL BE AS PER D26-33.03.

ADA AMERICAN NATIONAL STANDARD

1. PROPOSED WORK TO COMPLY WITH APPLICABLE REQUIREMENTS OF LOCAL LAW #58/87 FOR HANDICAPPED ACCESS AND THE AMERICAN NATIONAL STANDARD, 2003. 2. NEW BATHROOM TO PROVIDE GRAB BARS AND HANDRAILS MEETING THE REQUIREMENTS OF ANSI 604. 3. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST, AS PER ANSI 606. 4. FOR DOORS WHICH HAVE CLOSERS, THE SWEEP PERIOD OF THE DOOR SHALL BE ADJUSTABLE SUCH THAT FROM AN OPEN OF 90 DEGREES, THE CLOSER WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POSITION OF APPROXIMATELY 12 DEGREES, AS PER ANSI 404.2.7 5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE OF THE CITY OF NEW YORK INCLUDING ALL AMENDMENTS AND THE AMERICANS WITH DISABILITIES ACT INCLUDING LOCAL LAW #58/87. 6. FURTHER DIAGRAMS OF COMPLIANCE FOR ADAPTABLE AND ACCESSIBLE LIVING IS SHOWN ON ADA DETAILS DRAWING

NOISE CONTROL IN MD BUILDINGS

1. NOISE CONTROL IN MULTIPLE DWELLING BUILDINGS TO MEET N.Y.C. BUILDING CODE 27-768, 27-769 AND 27-770. ALL SOUND ATTENUATION LOCATIONS AND DETAILS ARE TO BE INDICATED ON THE PLANS AND PARTITION SCHEDULES.

PROJECT 32 EAST 29TH STREET BROOKLYN, NY 11226 ARCHITECT ARC Architecture + Design Studio 71-01 Austin Street Forest Hills, NY 11375 T. 718. 360-7065 E. Info@ARCdesignNYC.com STRUCTURAL ENGINEER R&O Engineering P.C. 64-07 102nd Street, Rego Park, NY 11374 T. 718-793-8345 E. Robert@randcoconsulting.com MECHANICAL ENGINEER Fabian Cruz, PE PLLC Consulting Engineers 8-03 College Point Blvd, College Point, NY 11356 T. 917.657-3387

MECHANICAL VENTILATION NOTES

1. ALL BATHROOM AND TOILET ROOMS TO HAVE MECHANICAL VENTILATION PROVIDING MINIMUM 50 CFM EXHAUST. BATHROOM DUCT RISERS TO BE 8X8, MINIMUM 18 GA SHEET METAL. 2. ALL KITCHENETTES TO BE PROVIDED WITH MECHANICAL VENTILATION PROVIDING MIN 125 CFM EXHAUST KITCHEN DUCT RISERS TO 8X10, MINIMUM 18 GA SHEET METAL. 3. DUCT RISERS TO BE FIRE RETARDED WITH TWO (2) LAYERS TYPE 'X' GYPSUM BOARD ON ALL SIDES, ATTACHED WITH CONSTRUCTION ADHESIVE AND 18 GA WIRE TIES @ 4'-0" O.C. (NO SCREWS TO BE USED). 4. WHERE DUCTS PASS THROUGH FLOOR, FLOOR OPENINGS TO BE CUT TIGHT TO DUCT, AND REMAINING GAP BETWEEN DUCT AND FLOOR CONSTRUCTION TO BE FILLED WITH MINERAL WOOL. 5. EACH BATHROOM AND KITCHEN TO BE EQUIPPED WITH ITS OWN INDEPENDENT EXHAUST BLOWER WITH BACKDRAFT DAMPER. 7. ALL DUCT WORK SHALL BE CONSTRUCTED AS PER RS-13-1 (301), DUCT HANGERS SHALL BE AS PER RS-13-1 (319). 8. MINIMUM 8'X8' OUTDOOR AIR INTAKE (F.A.I.) WITH BS&A APPROVED FIRE DAMPER TO BE PROVIDED FOR BOILER ROOM.

SMOKE DETECTING NOTES

1. SMOKE DETECTING DEVICES SHALL CONFORM TO SUBCHAPTER 17, ARTICLE 60F THE BUILDING CODE. 2. SMOKE DETECTING DEVICES SHALL RECEIVE THEIR PRIMARY POWER FROM BUILDING WIRING. THERE SHALL BE NO SWITCHES IN THE CIRCUIT OTHER THAN THE OVERCURRENT DEVICE PROTECTING THE BRANCH CIRCUIT. 3. ALL SMOKE DETECTING DEVICES SHALL BE ACCEPTED PURSUANT TO RULES AND REGULATIONS PROMULGATED BY THE COMMISSIONER, APPROVED BY THE BOARD OF STANDARDS AND APPEALS LISTED BY A NATIONALLY RECOGNIZED INDEPENDENT LABORATORY. NO DEVICE SHALL BE DEEMED TO BE IN COMPLIANCE WITH THIS PROVISION UNLESS IT IS EITHER THE IONIZATION OR PHOTOELECTRIC TYPE. 4. SMOKE DETECTORS TO BE INSTALLED WHICH MEET THE REQUIREMENTS OF RS 4-6, 4.26.3, ADAPTABLE TO PROVIDE FLASHING LIGHTS ARRANGED TO FLASH IN CONJUNCTION WITH AUDIBLE SMOKE DETECTOR ALARM. 5. ACCESSIBLE ROUTES TO BE PROVIDED BETWEEN FACILITIES, PROVIDING A MINIMUM OF 36 INCHES OF WIDTH ALONG THE ACCESSIBLE ROUTE AS PER RS 4-6, 4.3.1, AND A MINIMUM OF 32 INCHES OF WIDTH AT DOORWAYS, AS PER RS 4-6.4.13.5.

CARBON MONOXIDE DETECTORS

1. SMOKE/CARBON MONOXIDE DETECTORS OR DEVICES SHALL BE INSTALLED IN ORDINANCE WITH THE HOUSING MAINTENANCE CODE, MULTIPLE DWELLING LAW, THE NEW YORK CITY BUILDING CODE AND THE NEW YORK CITY ELECTRICAL CODE. 2. SMOKE AND CARBON MONOXIDE DETECTORS MAY BE COMBINED PROVIDING THE DEVICES COMPLY WITH THE PROVISIONS OF TITLE OF THE ADMINISTRATIVE CODE OF THE CITY OF NEW YORK AND ANY APPLICABLE RULES PROMULGATED THEREUNDER. 3. EACH SMOKE/CARBON MONOXIDE DETECTOR SHALL BE INSTALLED IN ACCORDANCE WITH REFERENCE STANDARD 17-12 OF THE NEW YORK CITY BUILDING CODE. 4. EACH SMOKE/CARBON MONOXIDE DETECTOR SHALL BE INSTALLED OUTSIDE OF EACH SLEEPING ROOM IN THE IMMEDIATE VICINITY OR WITHIN 10'-0" OF THE ENTRANCE TO A SLEEPING ROOM. 5. EACH SMOKE/CARBON MONOXIDE DETECTOR SHALL BE OF A TYPE THAT ALLOWS FOR READILY TESTING OF SUCH DEVICE. 6. DUPLEX UNITS SHALL HAVE A DEVICE LOCATED ON EACH LEVEL IF ONLY ONE MEANS OF EGRESS IS PROVIDED FROM EACH LEVEL. 7. CEILING MOUNTED DEVICES SHALL BE A MINIMUM DISTANCE OF 4" FROM ANY WALL. 8. WALL MOUNTED DEVICES SHALL BE A MINIMUM OF 4" TO A MAXIMUM OF 12" FROM THE CEILING. 9. EACH DWELLING UNIT SHALL BE EQUIPPED WITH AN APPROVED TYPE SMOKE/CARBON MONOXIDE DETECTOR DEVICE RECEIVING PRIMARY POWER FROM THE BUILDING WIRING WITH NO SWITCHES IN THE CIRCUIT OTHER THAN THE OVER CURRENT DEVICE PROTECTING THE BRANCH CIRCUIT AS PER NEW YORK CITY BUILDING CODE SEC. 27-980. 10. SUCH SMOKE/CARBON MONOXIDE DETECTORS MUST BE EITHER THE IONIZATION CHAMBER TYPE OR THE PHOTOELECTRIC DETECTOR TYPE AS PER NEW YORK CITY BUILDING CODE SEC. 27-981.(B). 11. A 'CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE/CARBON MONOXIDE DETECTORS' MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT H.P.D., 10 DAYS AFTER INSTALLATION. 12. WRITTEN INFORMATION OF TESTING AND MAINTENANCE OF THE DEVICES SHALL BE PROVIDED TO THE DWELLING UNIT OWNER.

PROJECT 32 EAST 29TH STREET BROOKLYN, NY 11226 DRAWING TITLE GENERAL NOTES PROJECT NO. SEAL & SIGNATURE DRAWN BY: CHECKED BY: PAGE NO. 09 OF 33 DRAWING NO. G-002.00 PROJECT NO. 321598268 D.O.B.#

ACCESSIBILITY NOTES:

ALL ELEMENTS SHALL MEET THE REQUIREMENTS OF 2010 ADA STANDARDS/ANSI A117.1, 2003

RAMP:
 THE MIN. CLEAR WIDTH OF A RAMP SHALL BE NOT LESS THAN 36" AS PER 4.8.3 A.N.S.I. RAMP SHALL HAVE LEVEL LANDINGS AT THE BOTTOM AND TOP OF EACH RUN.

LANDINGS SHALL HAVE THE FOLLOWING FEATURES:
 A. THE LANDING SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO IT.
 B. THE LANDING LENGTH SHALL BE A MIN. OF 60" CLEAR.
 C. IF RAMP CHANGES DIRECTION AT LANDING, THE MIN. LANDING SIZE SHALL BE 60"x60".
 D. IF A DOORWAY IS LOCATED AT A LANDING, THEN THE AREA IN FRONT OF THE DOORWAY SHALL COMPLY WITH 4.12.6 A.N.S.I.

IF RAMP RUN HAS A RISE GREATER THAN 6" OR HORIZONTAL PROJECTION GREATER THAN 72", THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS SHALL HAVE THE FOLLOWING FEATURES:
 A. HANDRAILS SHALL BE PROVIDED ALONG BOTH SIDES OF RAMP SEGMENTS.
 B. IF HANDRAILS ARE NOT CONTINUOUS, THEY SHALL EXTEND AT LEAST 12" BEYOND THE TOP AND BOTTOM OF THE RAMP SEGMENT AND SHALL BE PARALLEL WITH THE FLOOR OR GROUND SURFACE.
 C. THE CLEAR SPACE BETWEEN THE HANDRAIL AND THE WALL SHALL BE 1 1/2". HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS A MAX. 3" DEEP AND EXTENDS AT LEAST 18" ABOVE THE TOP OF THE RAIL.
 D. GRIPPING SURFACES SHALL BE CONTINUOUS, WITHOUT INTERRUPTIONS BY NEWEL POST, OTHER CONSTRUCTION ELEMENTS OR OBSTRUCTIONS.
 E. THE DIAMETER OF THE GRIPPING SURFACES OF THE HANDRAIL SHALL BE 1 1/2" OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE.
 F. A HANDRAIL AND ANY WALL OR OTHER SURFACES ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MIN. RADIUS OF 1/8" DIAMETER.

DOORS:
 DOORS TO ACCESSIBLE SPACES & ELEMENTS & ALONG ACCESSIBLE ROUTES SHALL COMPLY WITH 4.13
 DOORWAYS INTENDED FOR USER PASSAGE SHALL A MIN. CLEAR WIDTH OF 32" WITH THE DOOR OPEN 90. MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP OPENINGS MORE THAN 24" IN DEPTH SHALL COMPLY WITH SECTION 4.2.1 & 4.3.3 OF THE A.N.S.I. STANDARD.
 THRESHOLDS AT THE AT THE DOORWAYS SHALL NOT EXCEED 1/2" IN HEIGHT. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE OF NO GREATER THAN 1:2.
 HANDLES, PULL, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND & DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. THEY SHALL BE MOUNTED WITHIN REACH RANGES SPECIFIED IN SECTION 4.2 OF THE A.N.S.I. STANDARDS.
 IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT AN OPEN POSITION OF 90 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO AN OPEN POSITION OF APPROX. 12".
 THE MAX. FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:
 A. FIRE DOORS SHALL HAVE THE MIN. OPERING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITIES.
 B. OTHER DOORS:
 1. EXTERIOR HINGED DOOR..... 8.5 LBS
 2. INTERIOR HINGED DOOR..... 5.0 LBS
 3. SLIDING OR FOLDING DOOR..... 0 LBS
 THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY KEEP THE DOOR IN A CLOSED POSITION.
 IF AN AUTOMATIC DOOR IS USED, IT SHALL COMPLY WITH A.N.S.I. B.H.M.A A156.10-1985.
 LIGHT SWITCHES, CONTROLS, FIRE ALARMS, ETC., SHALL BE LOCATED NOT MORE THAN 48" A.F.F. AND CONVENIENCE OUTLETS SHALL BE LOCATED NOT MORE THAN 18" A.F.F.

URINALS:
 URINALS SHALL BE STALL TYPE OR WALL HUNG WITH AN ELONGATED RIM AT A MAX OF 17" A.F.F.
 THE FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC COMPLYING WITH SECTION 4.25.4 A.N.S.I. AND MOUNTED NOT MORE THAN 44" A.F.F.

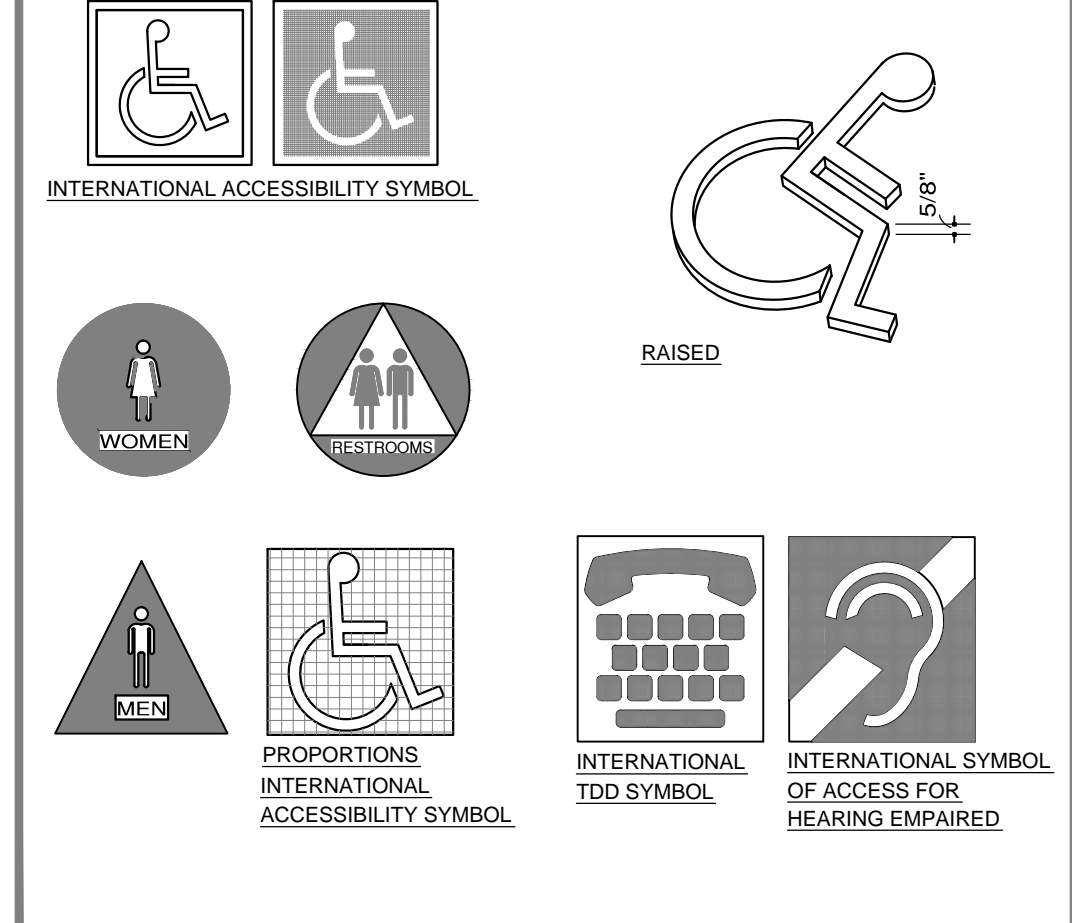
WATER CLOSETS:
 THE HEIGHT OF A WATER CLOSET SHALL BE 17" TO 19" MEASURED FROM THE FINISHED FLOOR TO THE TOP OF THE TOILET SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.
 FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC AND SHALL COMPLY WITH 4.25.4 A.N.S.I. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED FOR USE FROM THE WIDE SIDE OF THE TOILET STALL AND SHALL NO MORE THAN 44" A.F.F.
 TOILET PAPER DISPENSERS SHALL COMPLY WITH 4.25.4 & SHALL BE INSTALLED WITHIN REACH.

LAVATORIES AND SINKS:
 LAVATORIES SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 29" FROM THE FLOOR TO THE BOTTOM OF THE APPROX. KNEE AND TOE CLEARANCES SHALL COMPLY WITH THE A.N.S.I. STANDARDS.
 SINKS SHALL BE MOUNTED WITH THE COUNTER OR RIM NOT MORE THAN 34" FROM THE FLOOR. EACH SINK SHALL BE A MAX. OF 6 1/2" DEEP.
 FAUCETS SHALL COMPLY WITH 4.25.4 CONVENTION ONE-QUARTER TURN, LEVER OPERATED, PUSH-TYPE AND AUTOMATICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
 MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE NO HIGHER THAN 40" ABOVE FINISHED FLOOR.

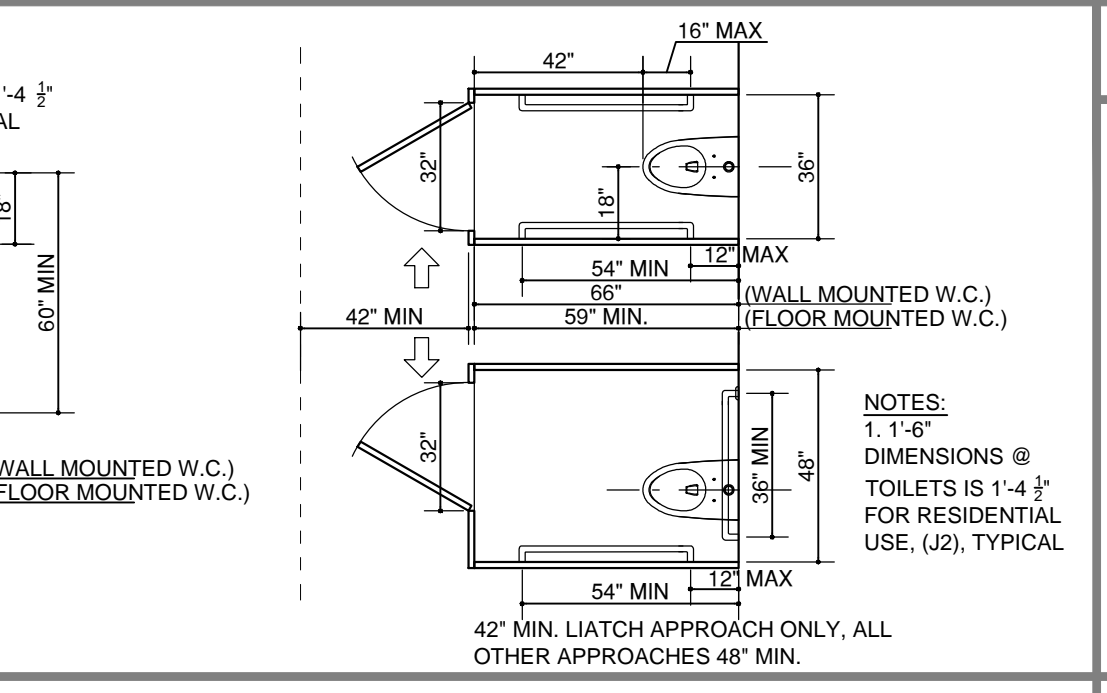
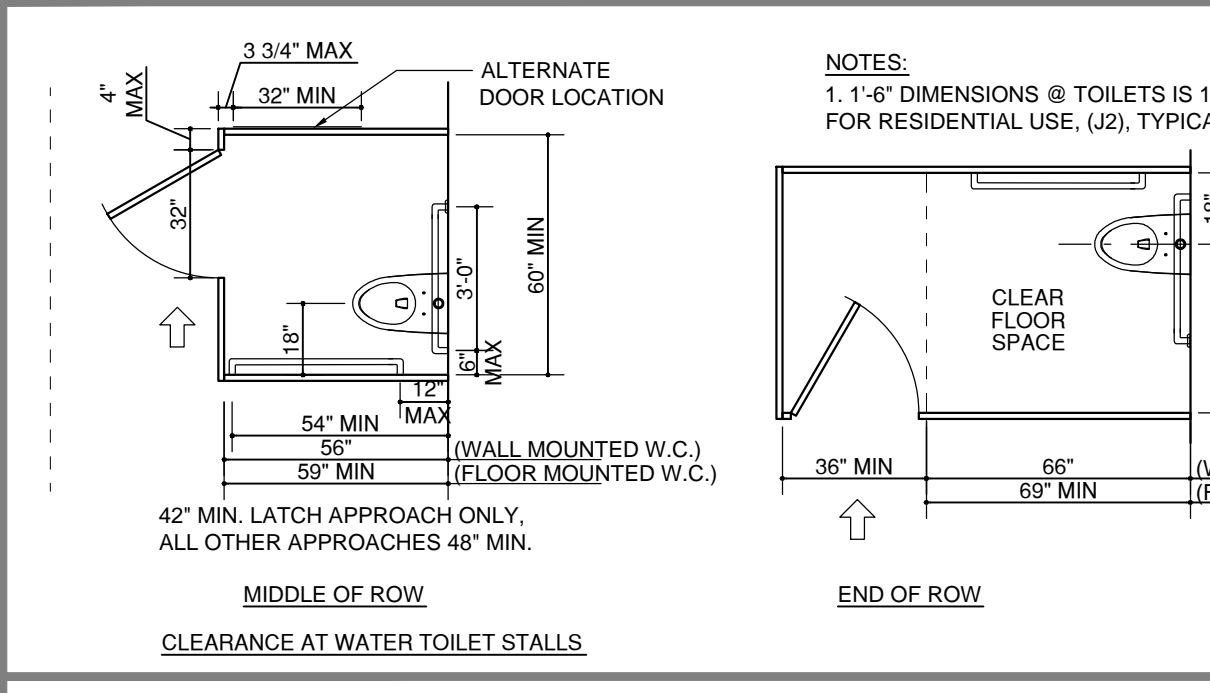
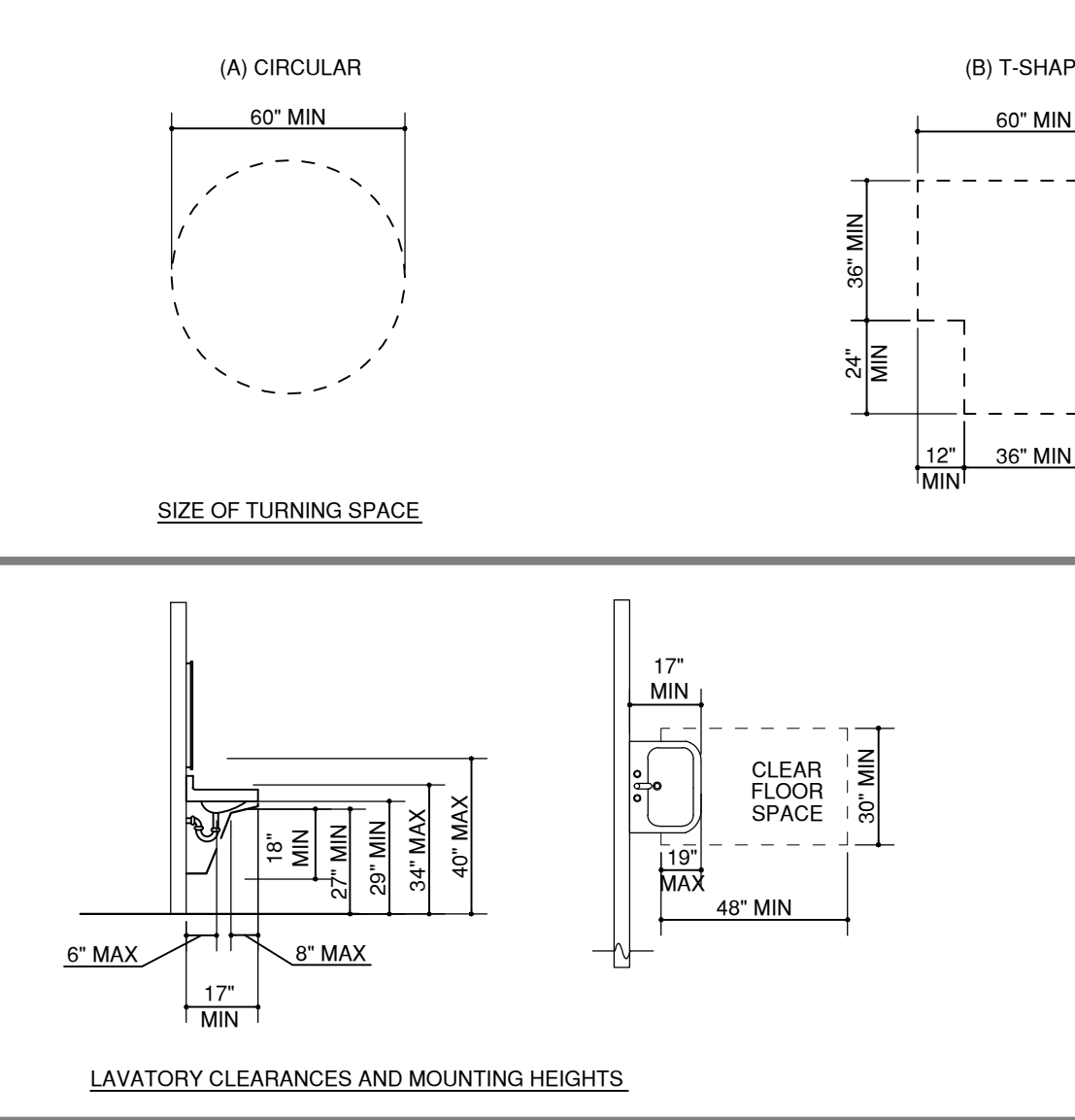
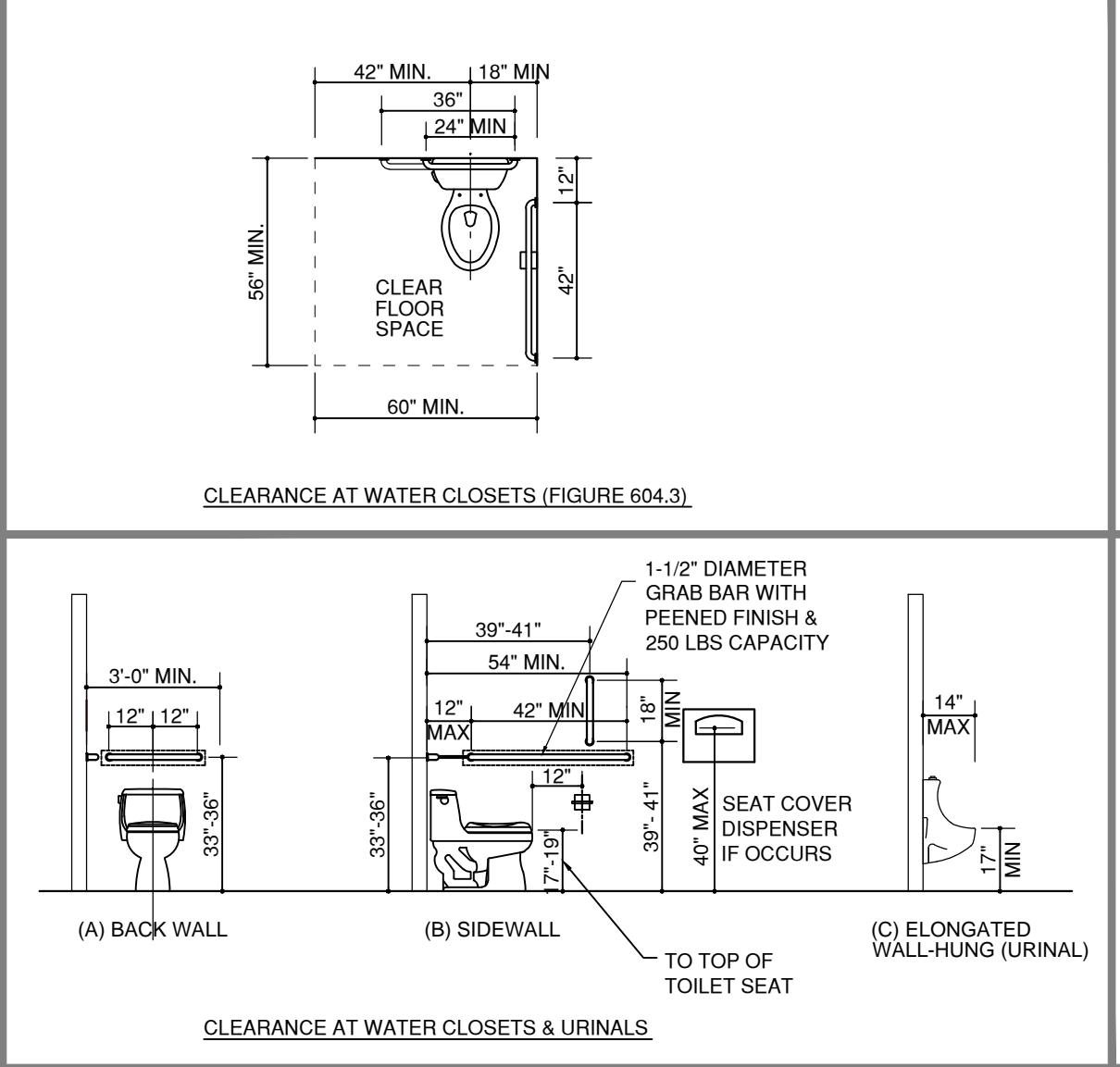
SIGNS/ PICTOGRAM

LETTERS AND NUMBERS:
 1. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE. (SEC. 1117B.5.1)
 2. RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH. (SEC. 1117B.5.2)
 3. PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6" IN HEIGHT. (SEC. 1117B.5.6.3)
 4. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10. (SEC. 1117B.5.3)
 5. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. (SEC. 1117B.5.5)
 6. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED. FOR SIGNS SUSPENDED OR PROJECTED ABOVE THE FINISH FLOOR IN COMPLIANCE WITH SECTION 1121B, THE MINIMUM CHARACTER HEIGHT SHALL BE 3". (SEC. 1117B.5.4)
 7. CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE REGULATIONS. DOTS SHALL BE 1/10" ON CENTERS IN EACH CELL WITH 210" SPACE CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND. (SEC. 1117B.5.2)

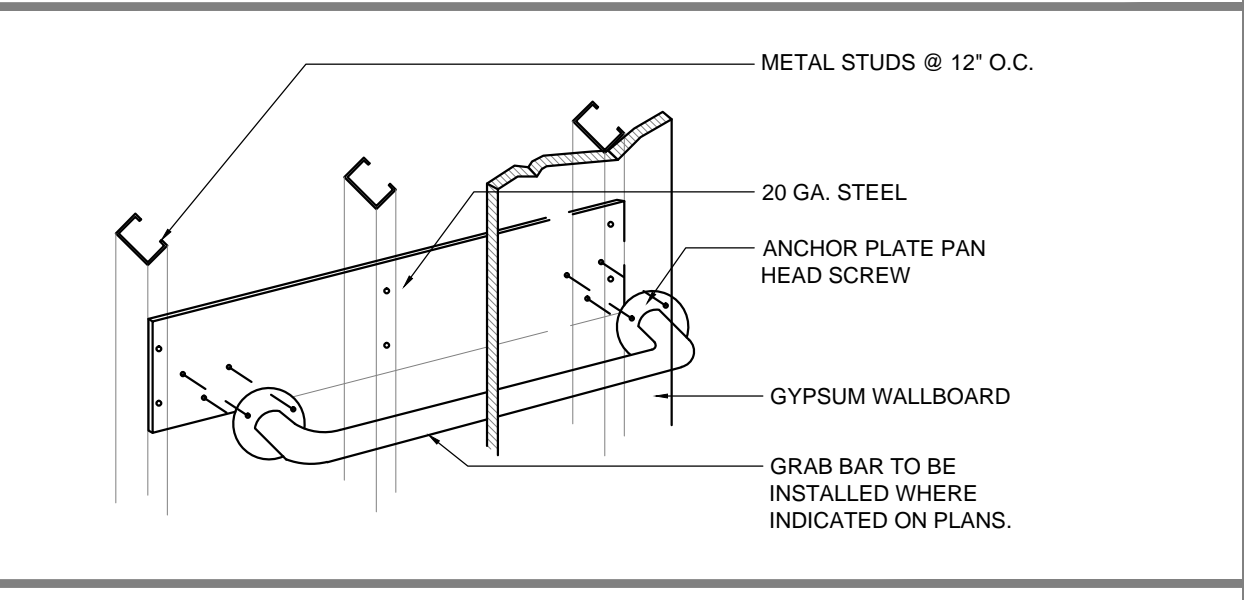
SIGN LOCATIONS:
 8. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS. (SEC. 1117B.5.7 & 1127B.3)
 9. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH SECTION 1117B.5.6. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR, WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT THE PERSON MAY APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. (SEC. 1117B.5.9)
 10. ADDITIONAL DIRECTIONAL SIGNS ALONG ACCESSIBLE PATH OF TRAVEL ARE REQUIRED.
 11. BUILDINGS REMODELED TO PROVIDE ACCESSIBLE SANITARY FACILITIES FOR PUBLIC USE SHALL HAVE INFORMATION POSTED IN THE LOBBY AS PART OF THE BUILDING DIRECTORY, INTERNATIONAL SYMBOL OF ACCESSIBILITY.
 12. STANDARD USED TO IDENTIFY ACCESSIBLE FACILITIES.
 13. WHITE FIGURE ON BLUE BACKGROUND, COLOR #15990 ON FEDERAL STANDARD #595A.
 14. WHEN ENFORCING AGENCY DETERMINES, IF APPROPRIATE, SPECIAL DESIGNS AND COLORS MAY BE APPROVED.
BRAILLE:
 15. USE CONTRASTED GRADE 2 BRAILLE. DOTS TO BE 0.1 INCH ON CENTER IN EACH CELL.
 16. 0.2 INCH SPACE BETWEEN CELLS.
 17. DOTS RAISED MINIMUM 0.028 INCH ABOVE BACKGROUND.
 18. SEE 47-4 FOR MORE INFO.



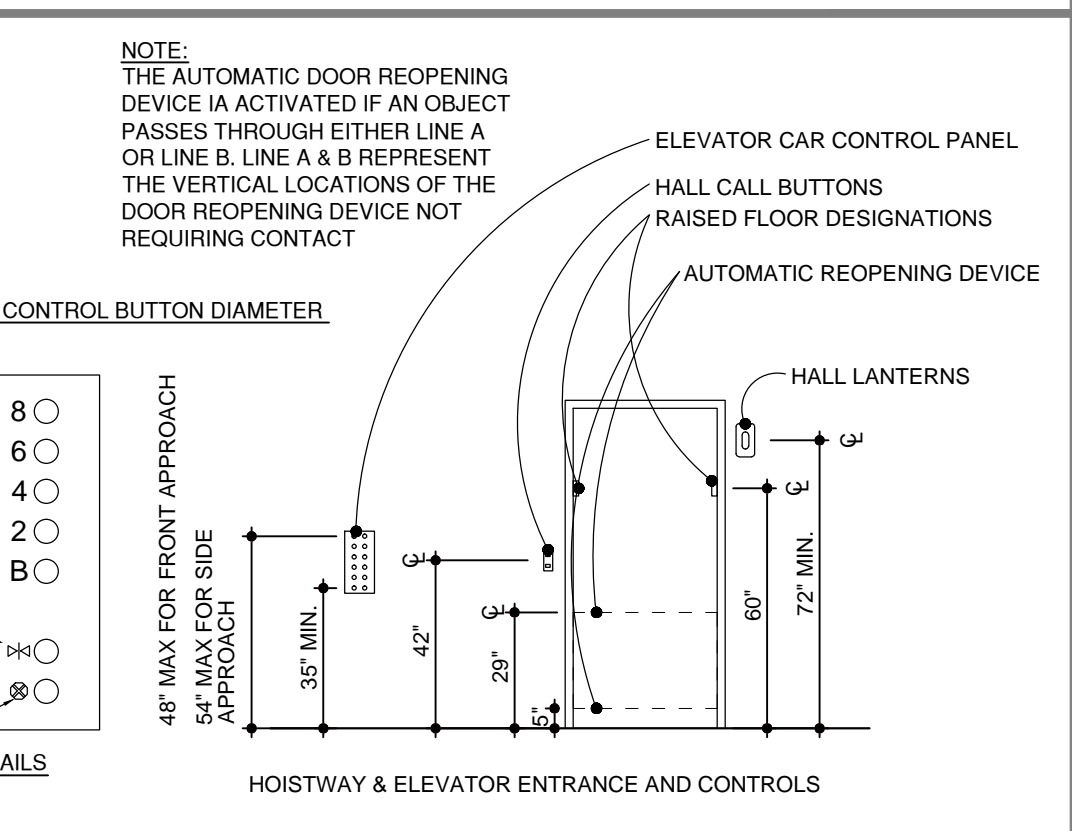
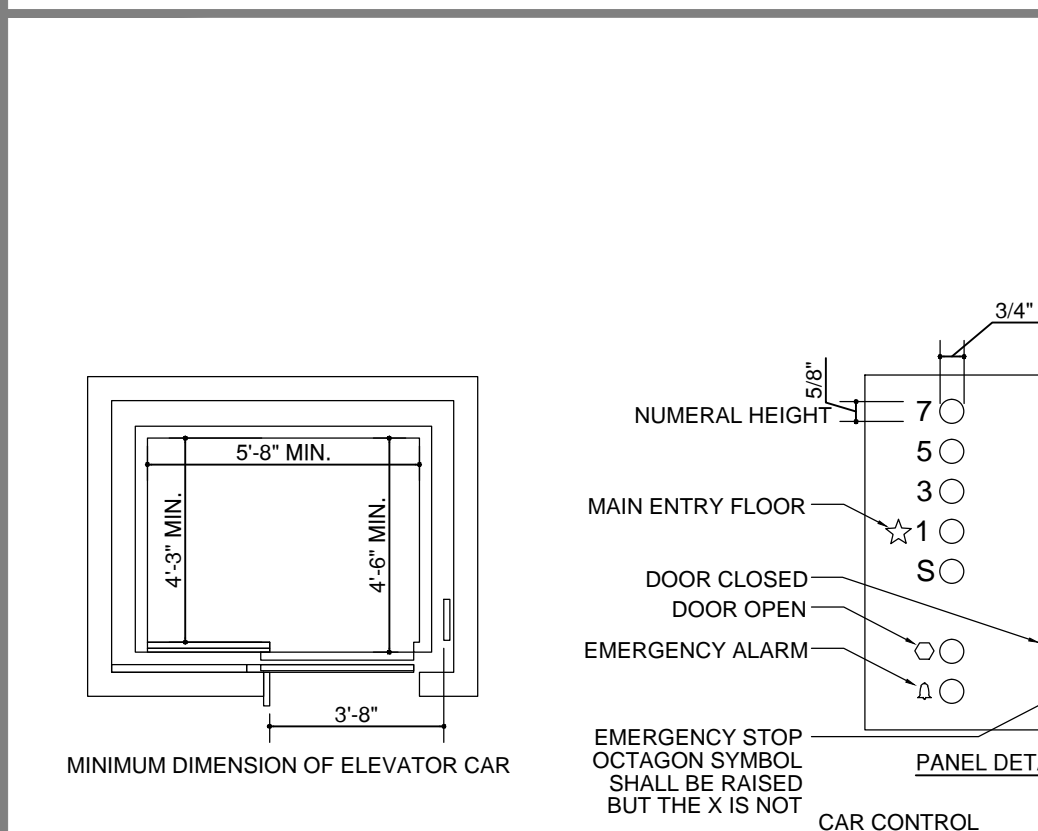
PLUMBING ELEMENTS & FACILITIES



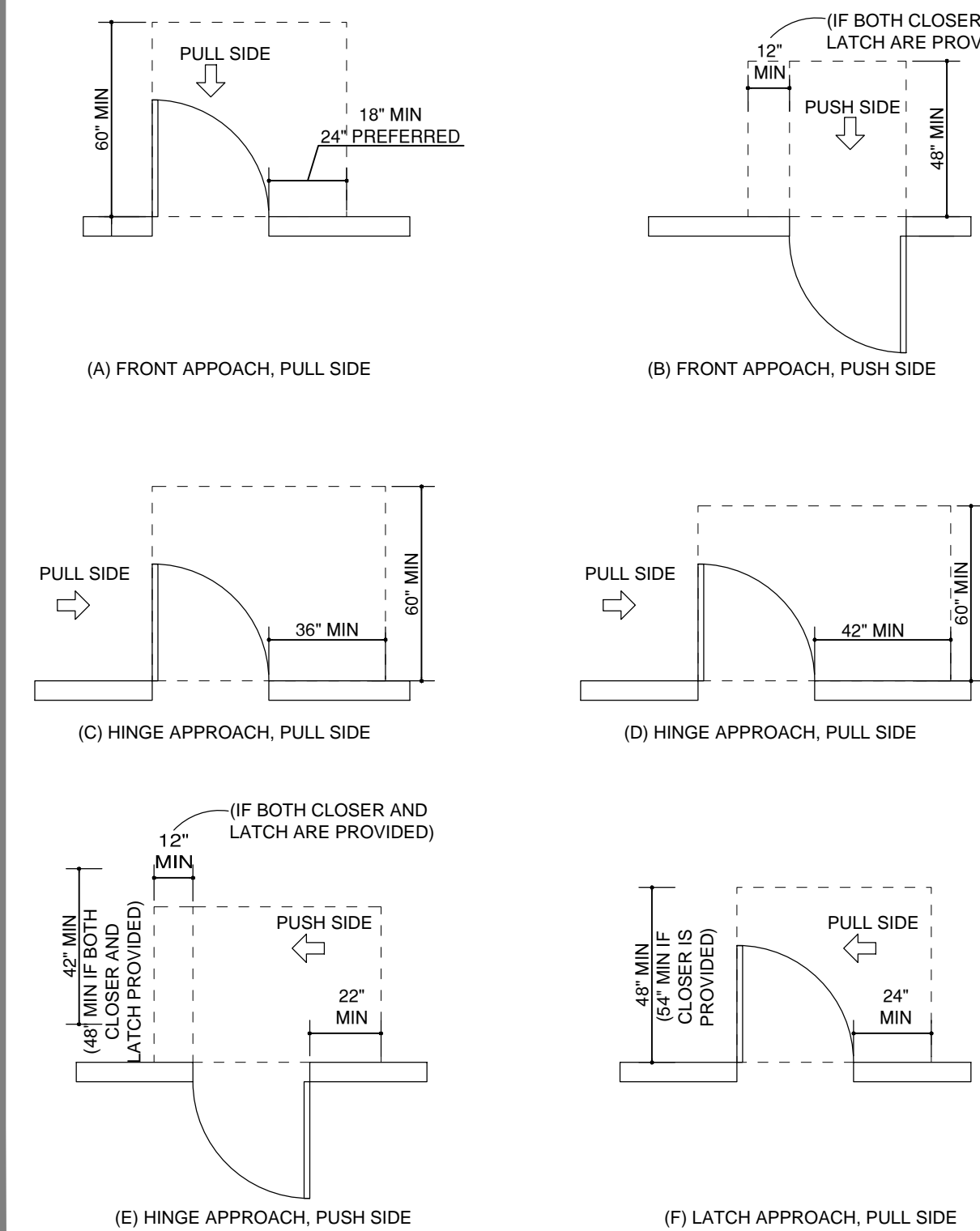
GRAB BAR DETAIL



ACCESSIBLE ELEVATOR REQUIREMENTS

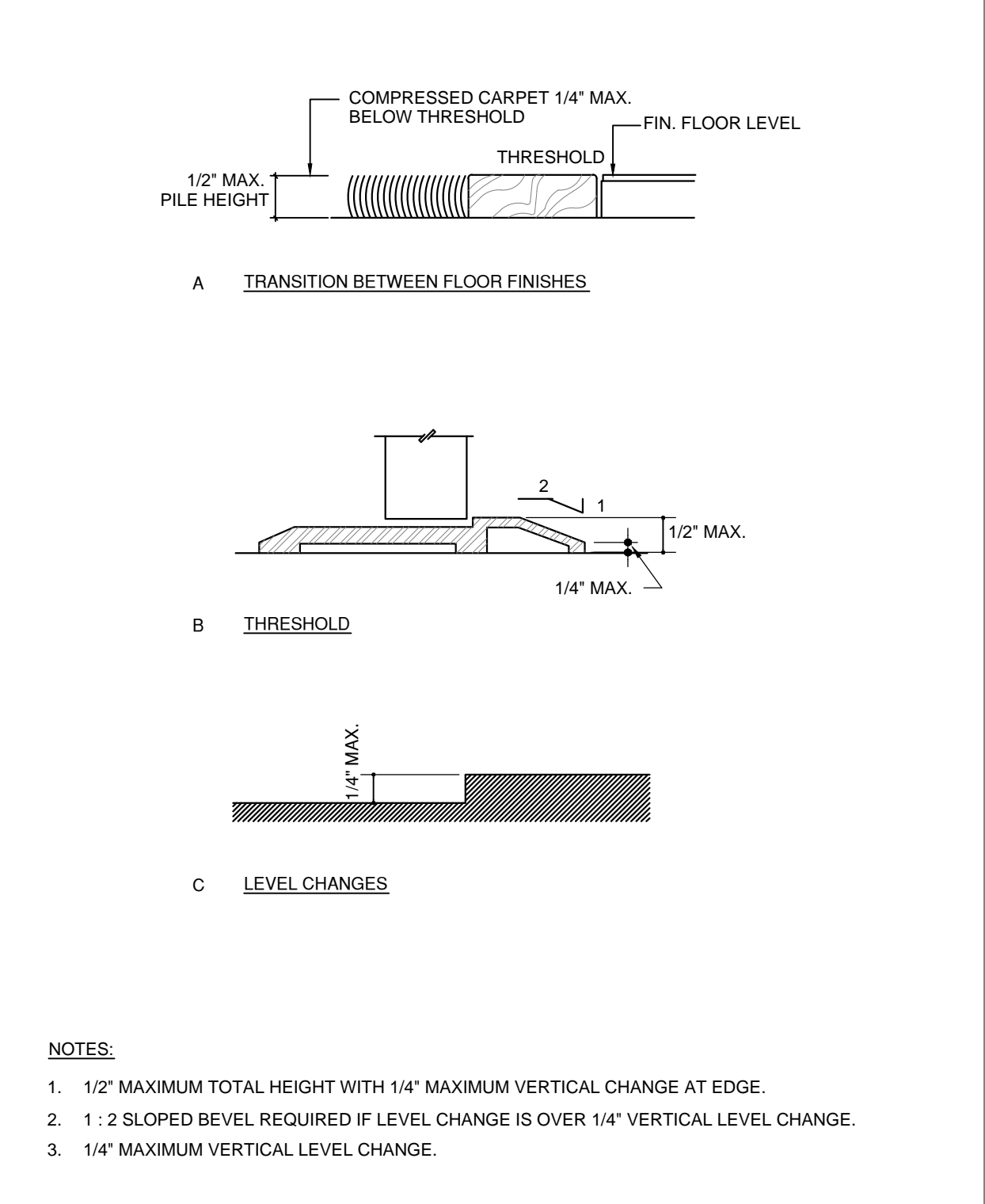


MANUVERING CLEARANCES AT DOORS- ACCESSIBLE REQUIREMENTS

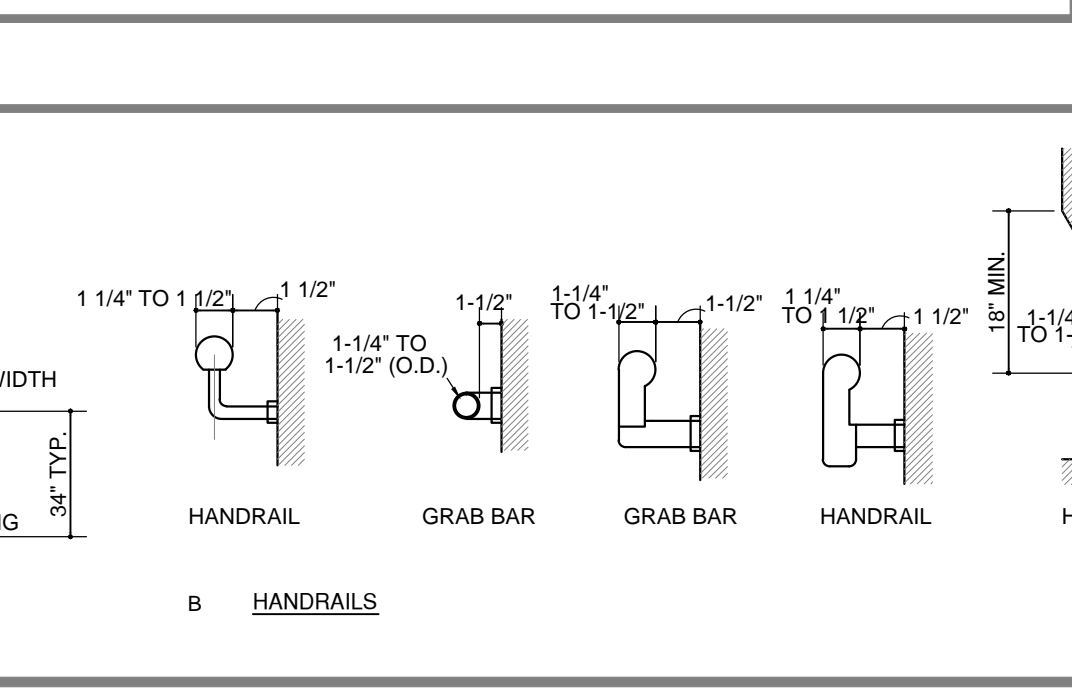
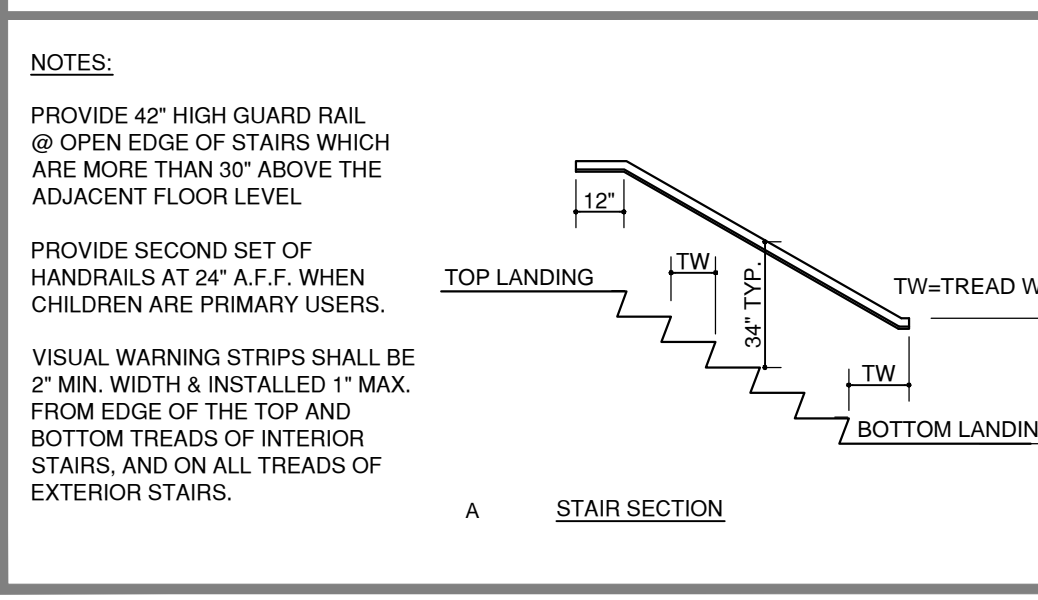


HANDICAPPED ACCESS NOTES:
 1. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT CLEAR WIDTH OF DOORWAY IS NOT AT LEAST 32 INCHES.
 2. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE.
 3. MAXIMUM EFFORT TO OPERATE FIRE DOORS SHALL BE 15 LBS. AT OTHER INTERIOR DOORS MAXIMUM EFFORT TO OPERATE SHALL BE 5 LBS.
 4. FLOOR, RAMP, AND TREAD SURFACES SHALL BE SLIP RESISTANT.
 5. EMERGENCY WARNING SYSTEMS SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE.
 6. THRESHOLDS SHALL NOT BE MORE THAN 1/2" HIGHER THAN ADJACENT FLOOR OR LANDING. LEVEL CHANGE BETWEEN 1/2" AND 1/2" SHALL BE BEVELED WITH SLOPE NO GREATER THAN 1:2.
 7. CENTER OF ALARM PULL BOXES SHALL BE 4'-0" A.F.F.

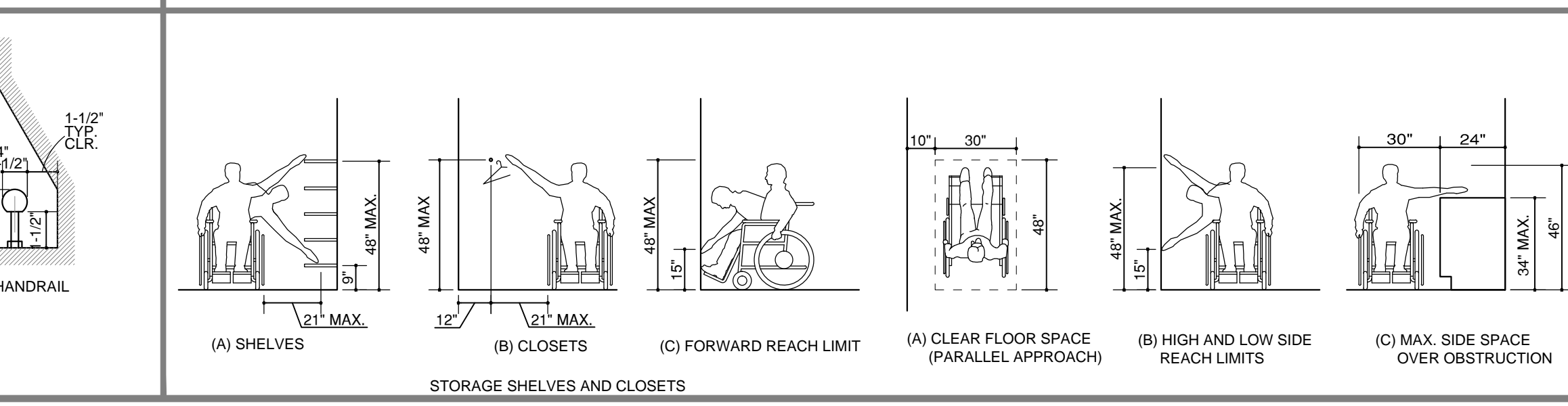
THRESHOLD DETAILS



STAIR AND HANDRAIL DETAILS



MANUVERING CLEARANCES & PROTRUDING OBJECTS



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ADA NOTES & DETAILS

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 PAGE NO. 10 OF 33
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321598268

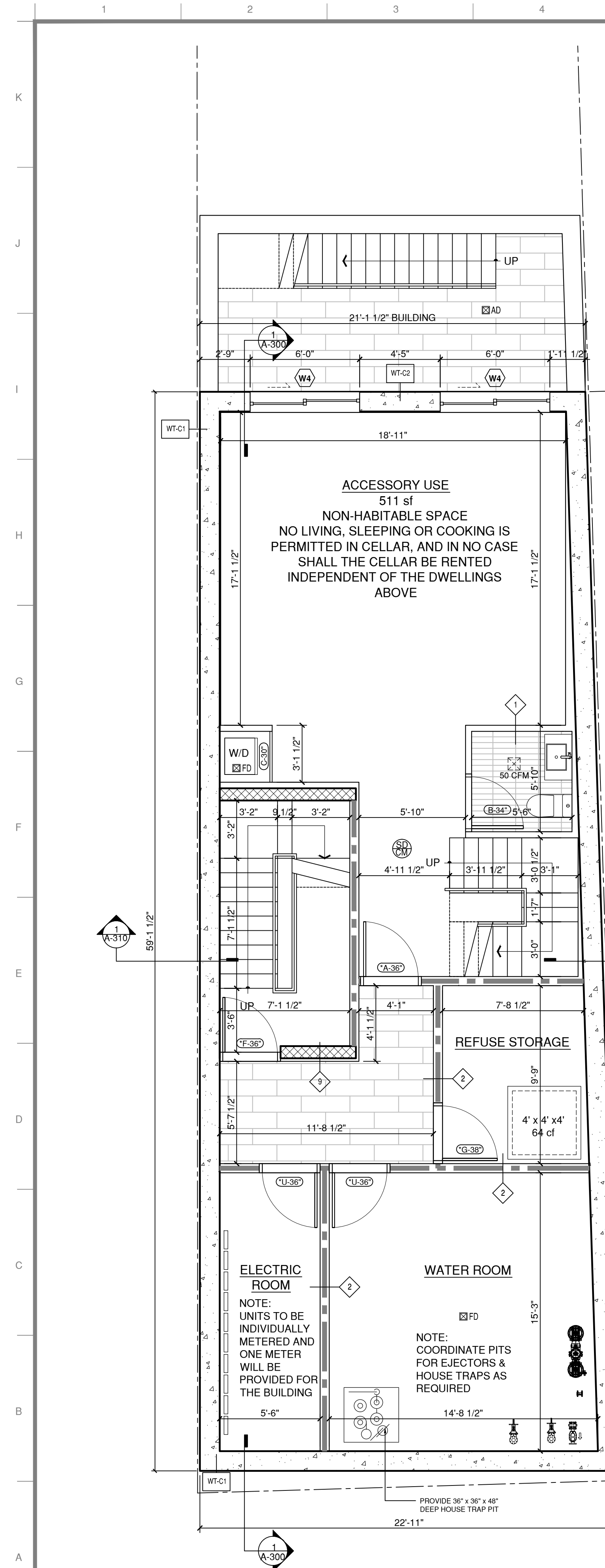
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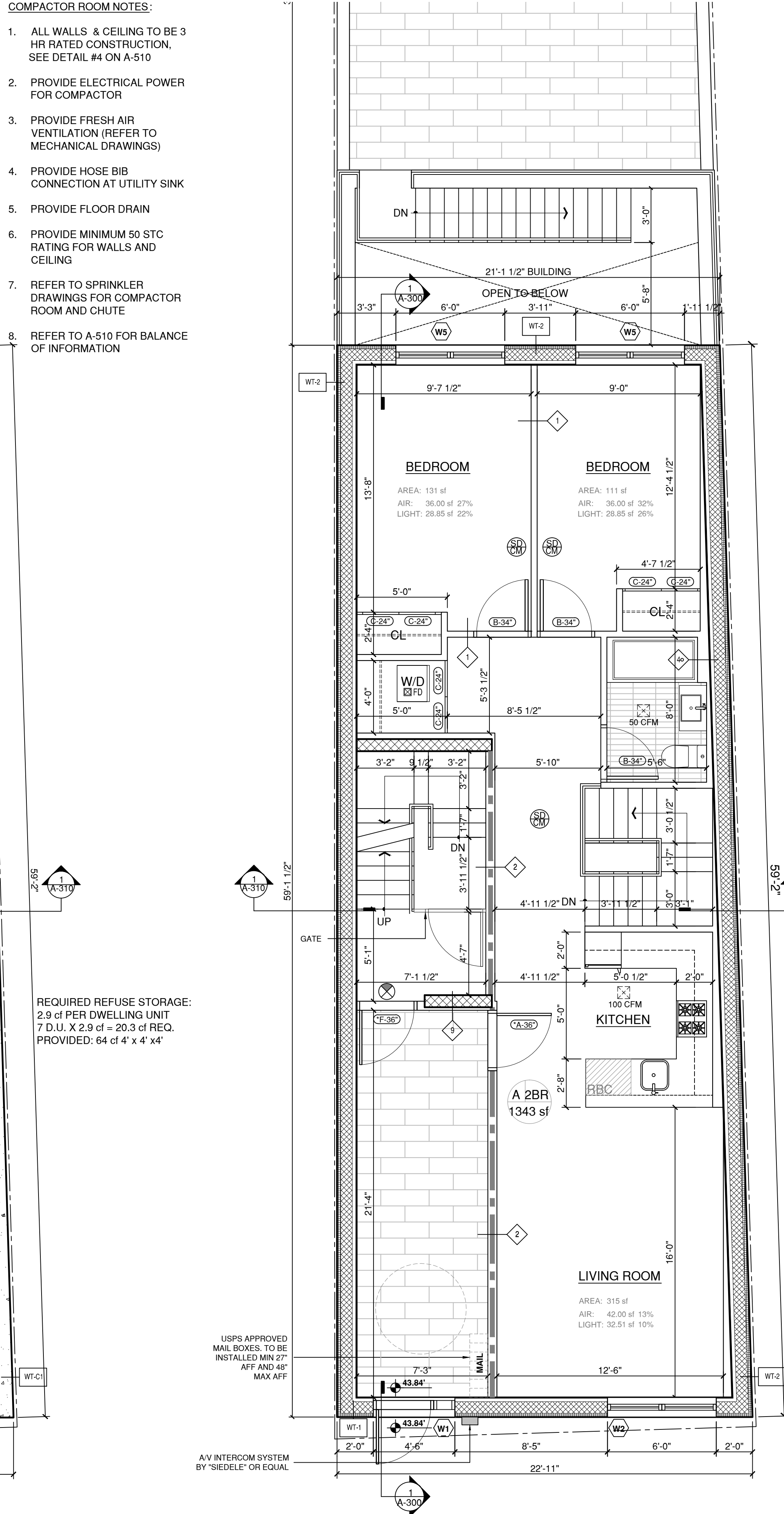
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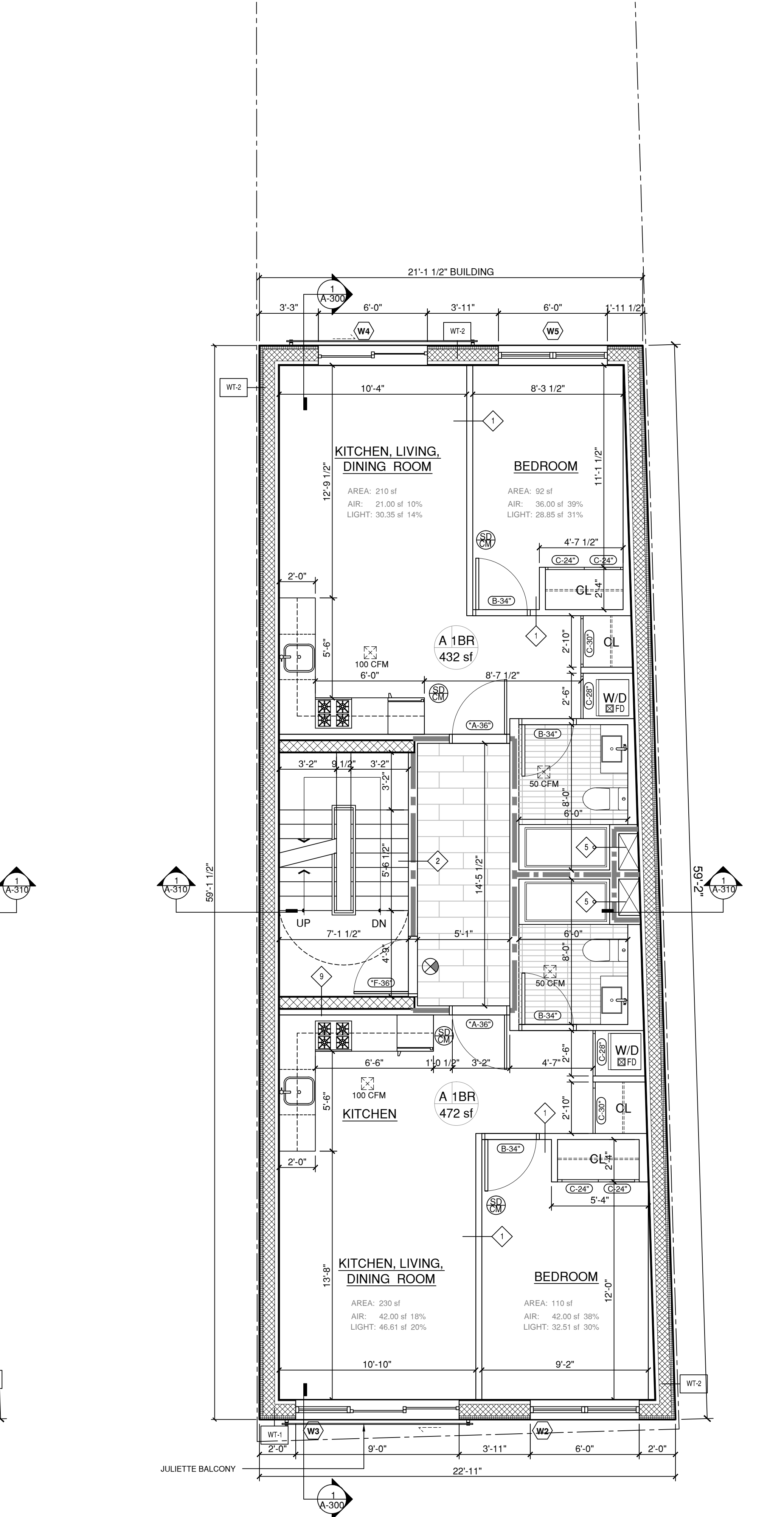
- COMPACTOR ROOM NOTES:**
1. ALL WALLS & CEILING TO BE 3 HR RATED CONSTRUCTION, SEE DETAIL #4 ON A-510
 2. PROVIDE ELECTRICAL POWER FOR COMPACTOR
 3. PROVIDE FRESH AIR VENTILATION (REFER TO MECHANICAL DRAWINGS)
 4. PROVIDE HOSE BIB CONNECTION AT UTILITY SINK
 5. PROVIDE FLOOR DRAIN
 6. PROVIDE MINIMUM 50 STC RATING FOR WALLS AND CEILING
 7. REFER TO SPRINKLER DRAWINGS FOR COMPACTOR ROOM AND CHUTE
 8. REFER TO A-510 FOR BALANCE OF INFORMATION



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



2 1ST FLOOR PLAN
 Scale: 1/4"=1'-0"



3 2ND FLOOR PLAN
 Scale: 1/4"=1'-0"



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DRAWING TITLE
CELLAR, 1ST, 2ND, 3RD FLOOR PLAN

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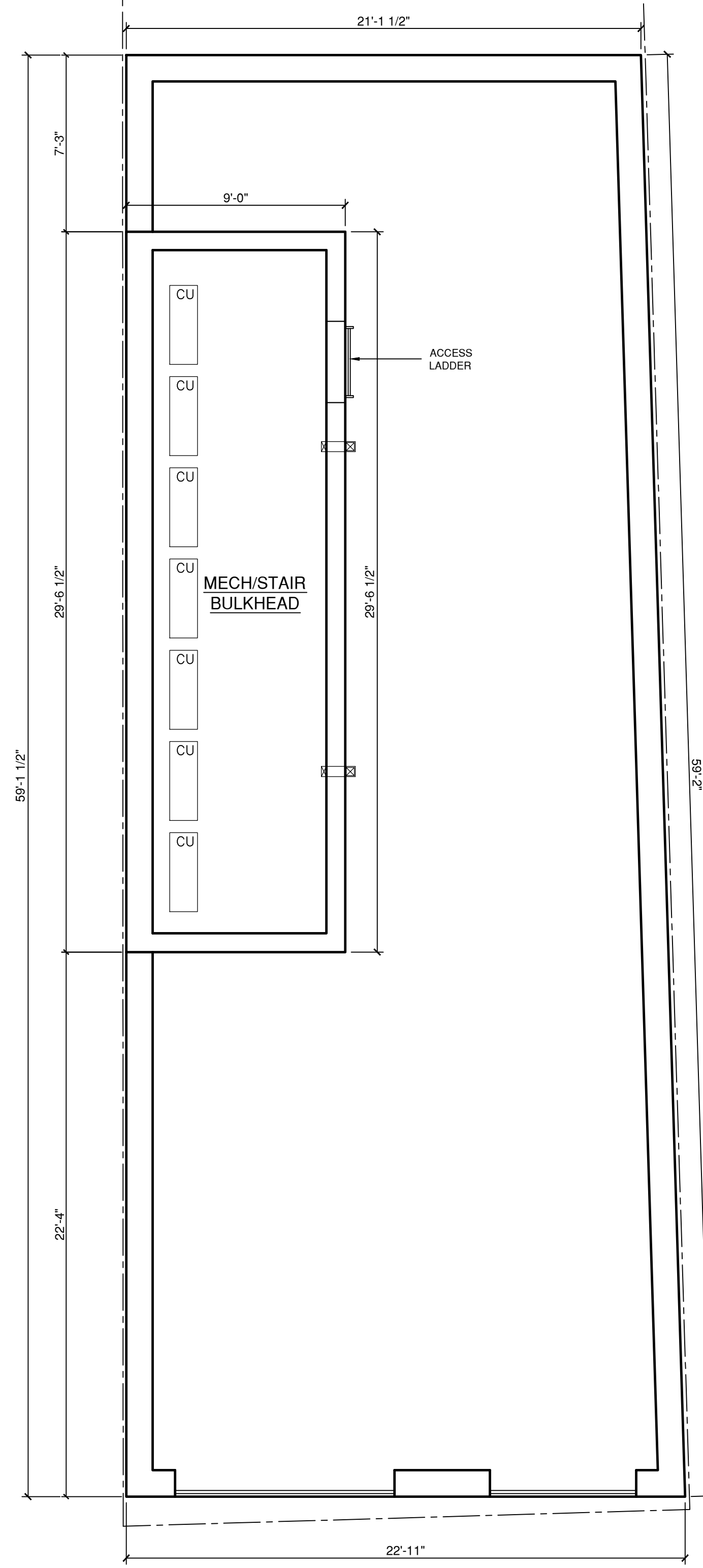
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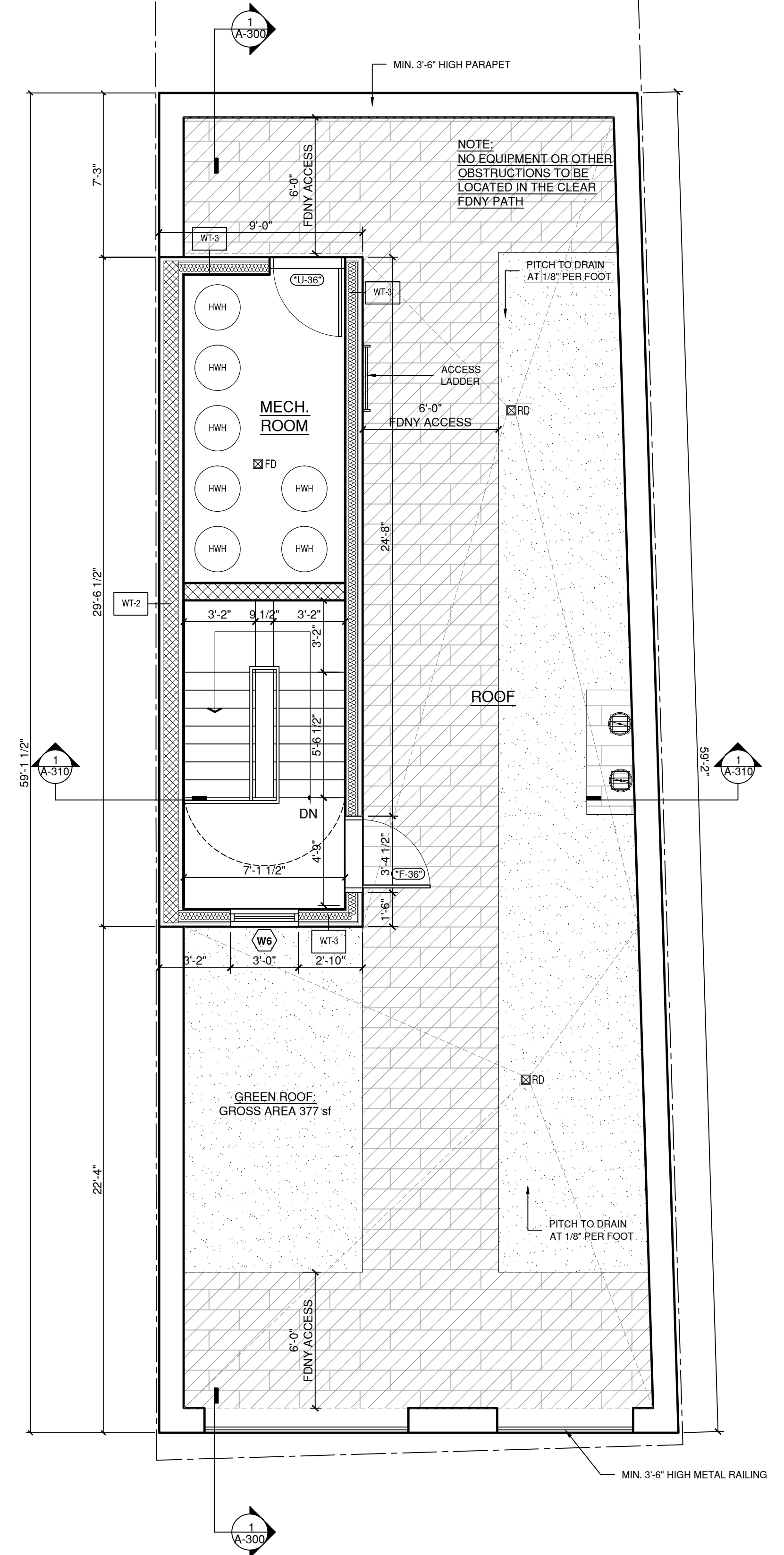
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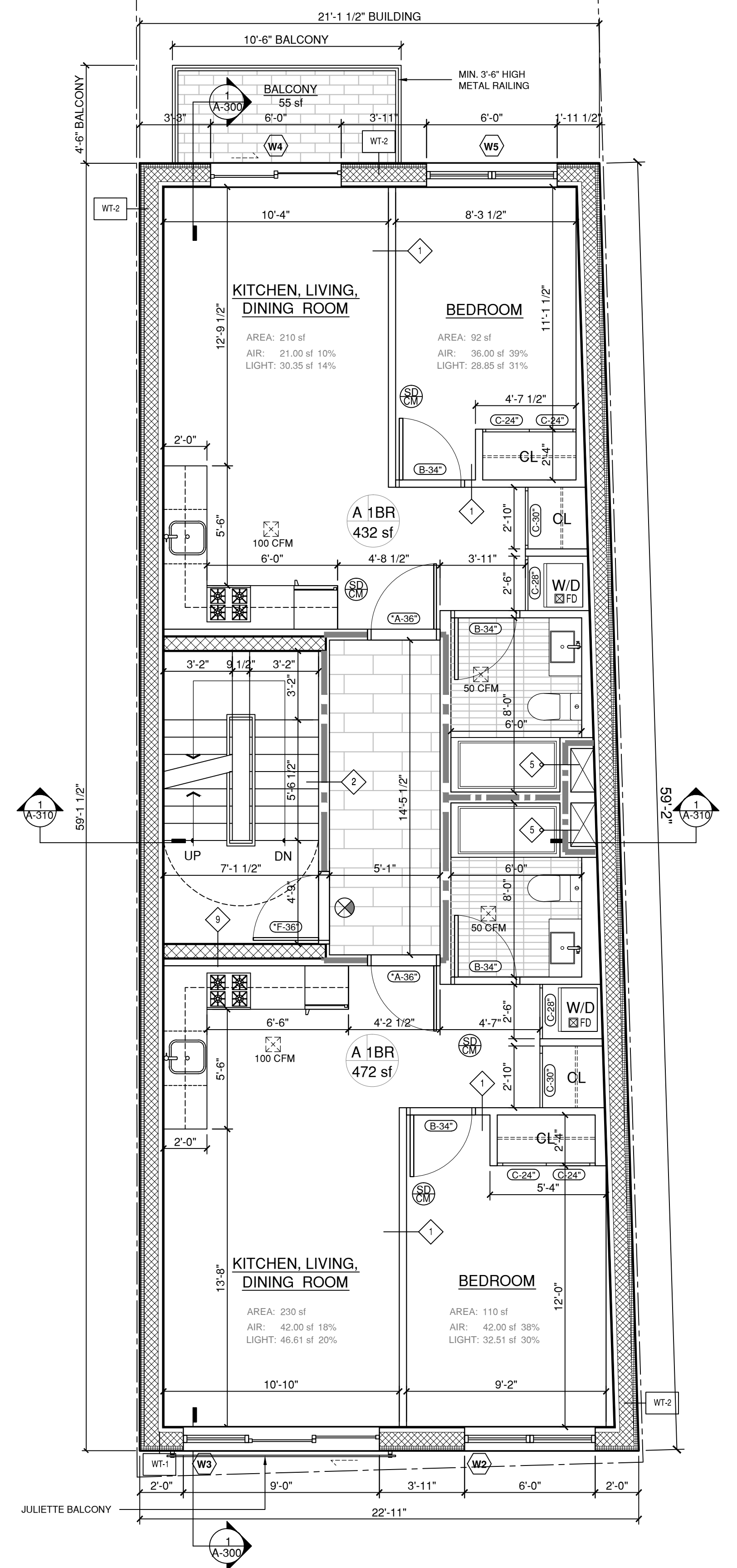
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3 BULKHEAD PLAN
 Scale: 1/4"=1'-0"



2 ROOF PLAN
 Scale: 1/4"=1'-0"



1 3RD-4TH FLOOR PLAN
 Scale: 1/4"=1'-0"

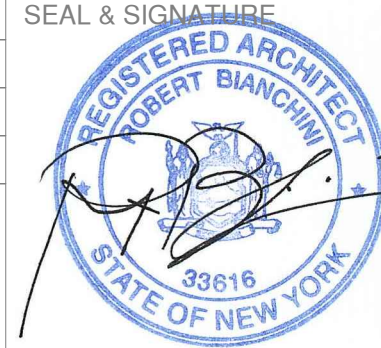


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10/22/2020	DOB SUBMISSION

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3RD, 4TH, ROOF, & BULKHEAD FLOOR PLAN

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1 EAST ELEVATION
 Scale: 3/16"=1'-0"

2 WEST ELEVATION
 Scale: 3/16"=1'-0"



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ELEVATION

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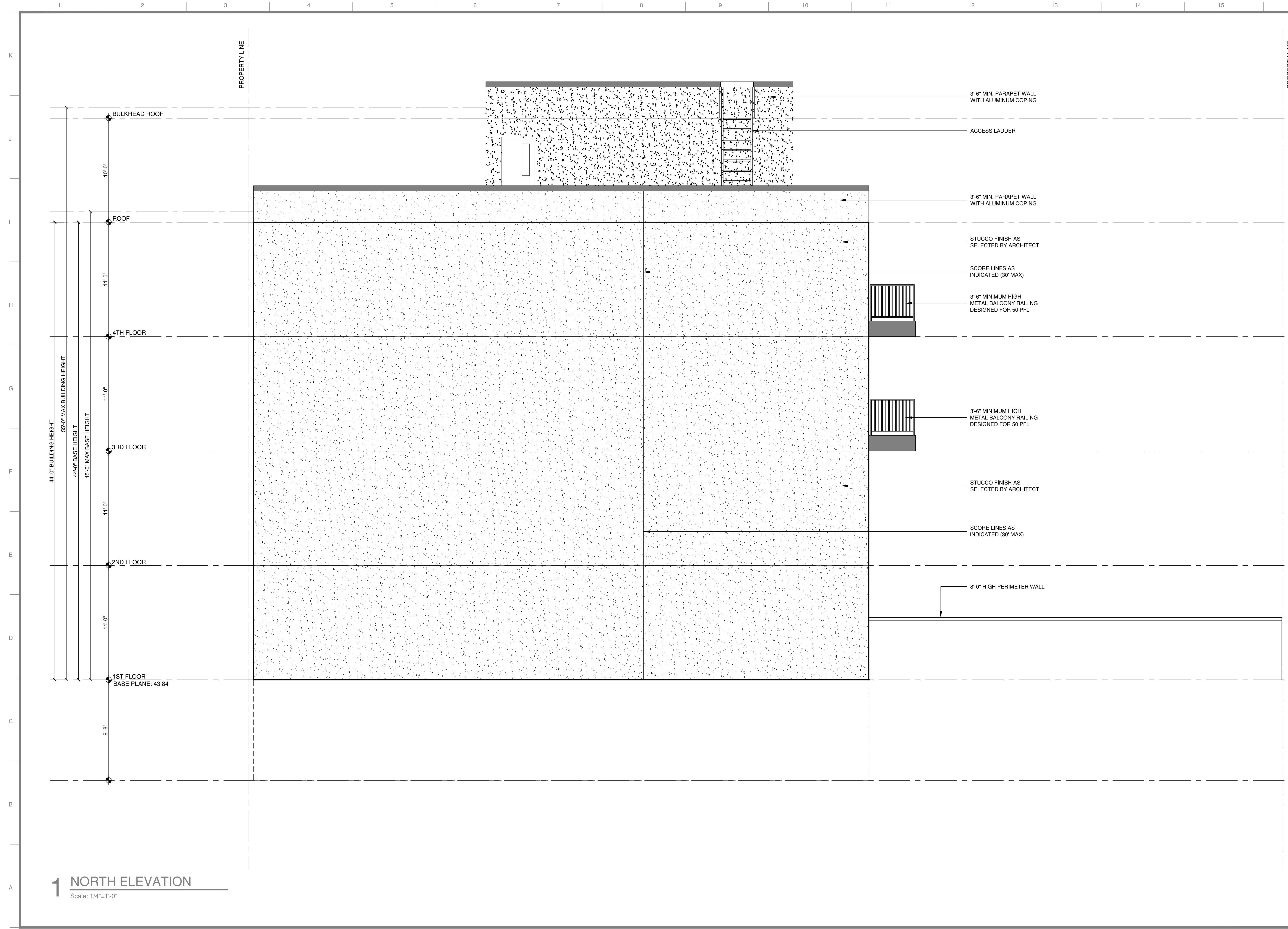
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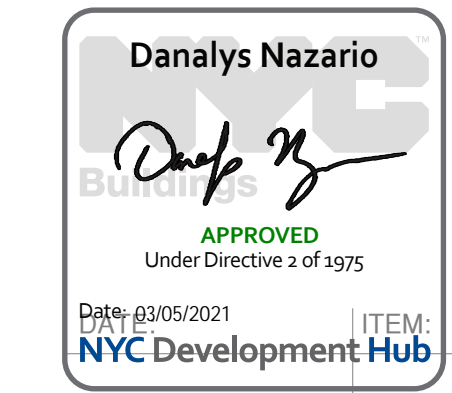
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1 NORTH ELEVATION
 Scale: 1/4"=1'-0"

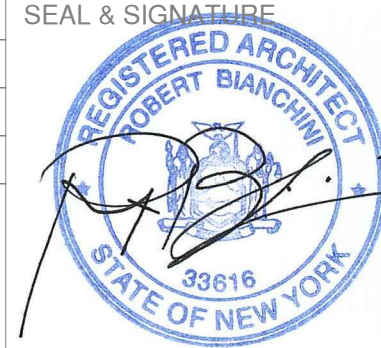


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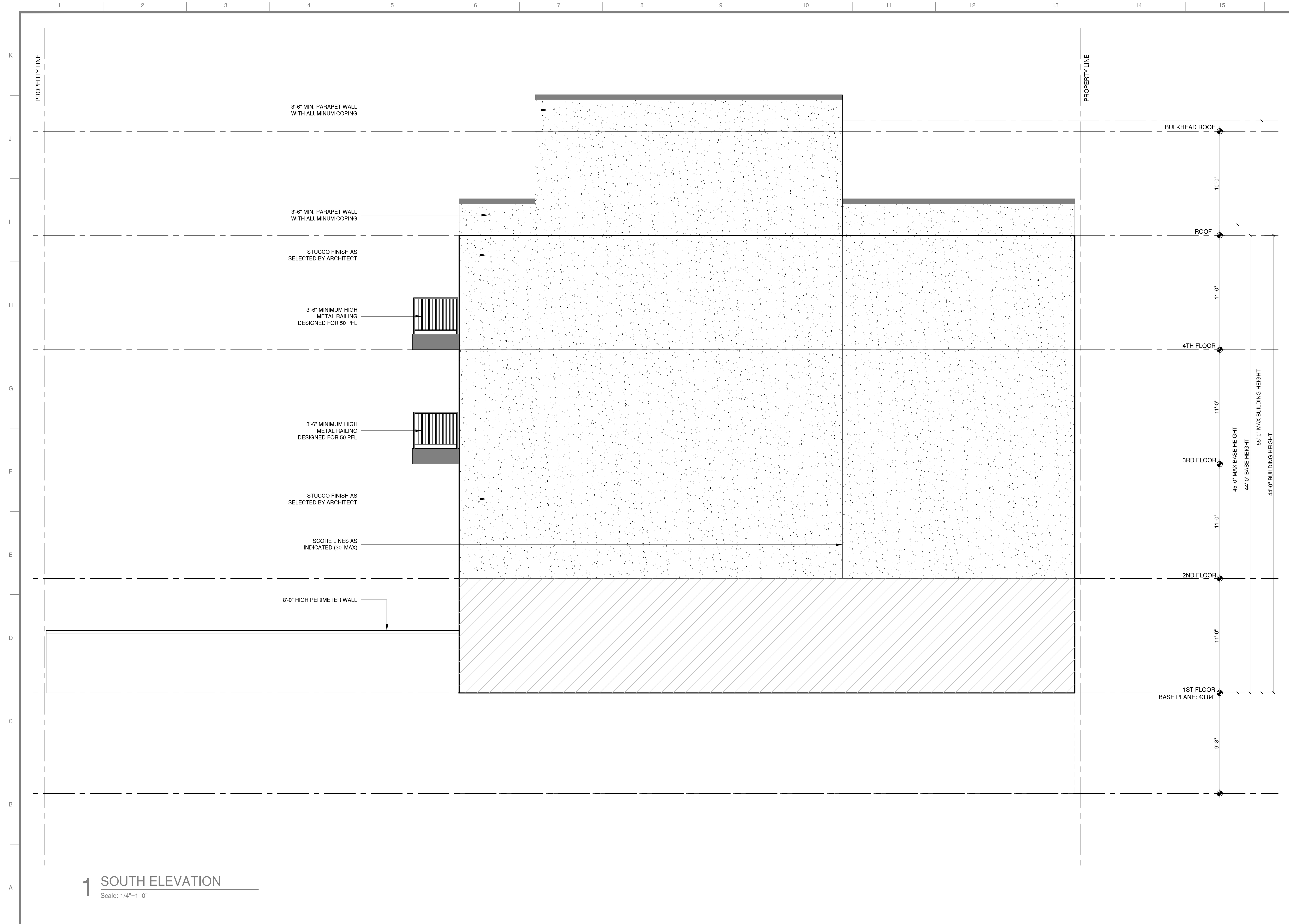
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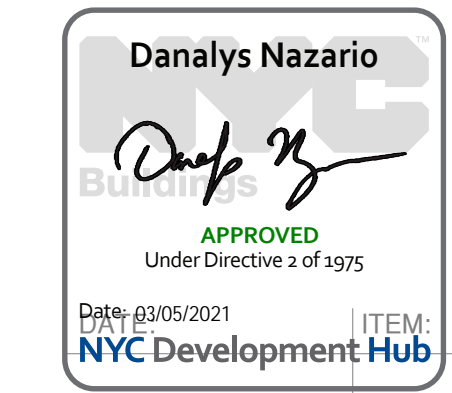
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1 SOUTH ELEVATION
 Scale: 1/4"=1'-0"



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ELEVATION

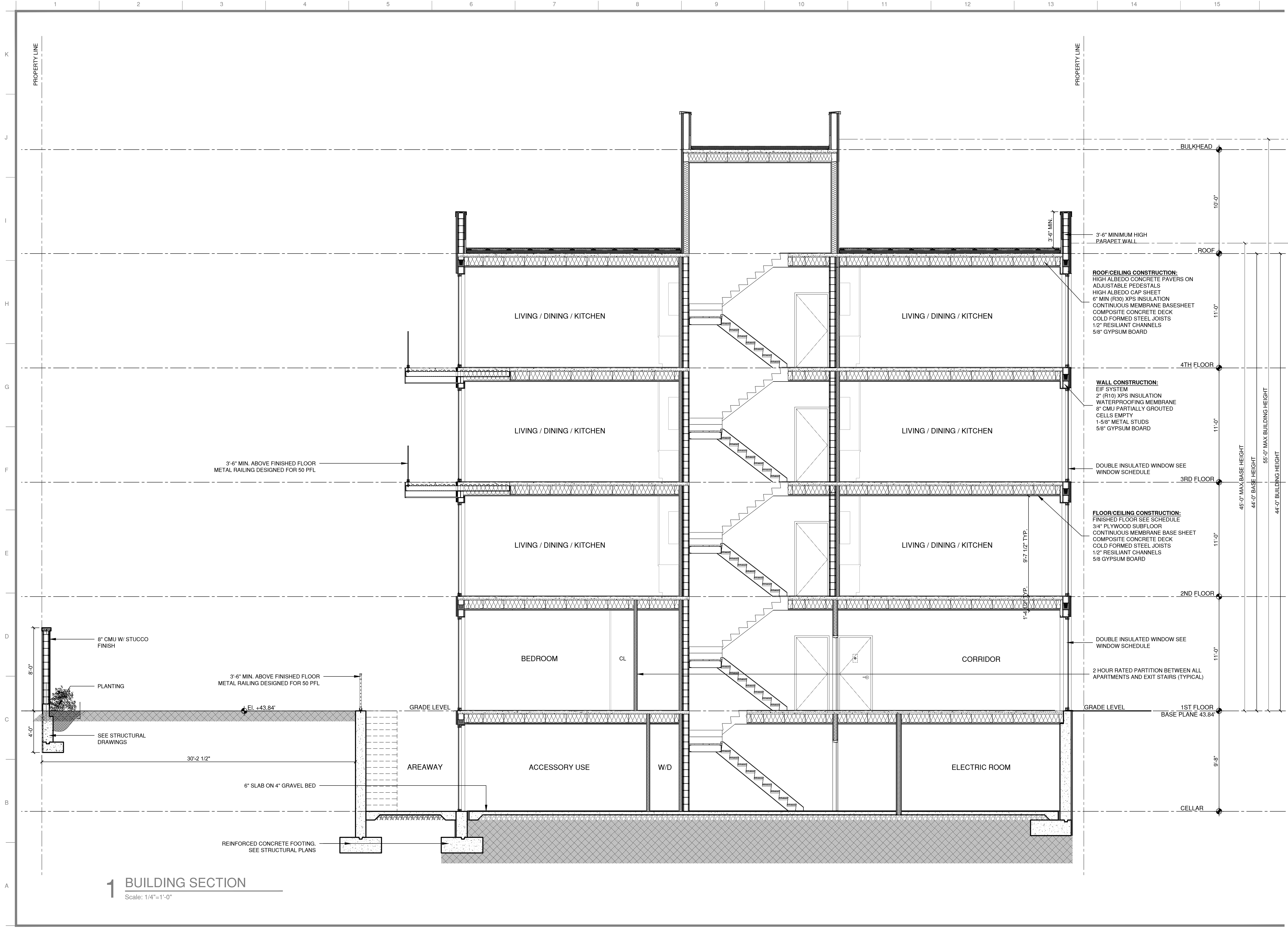
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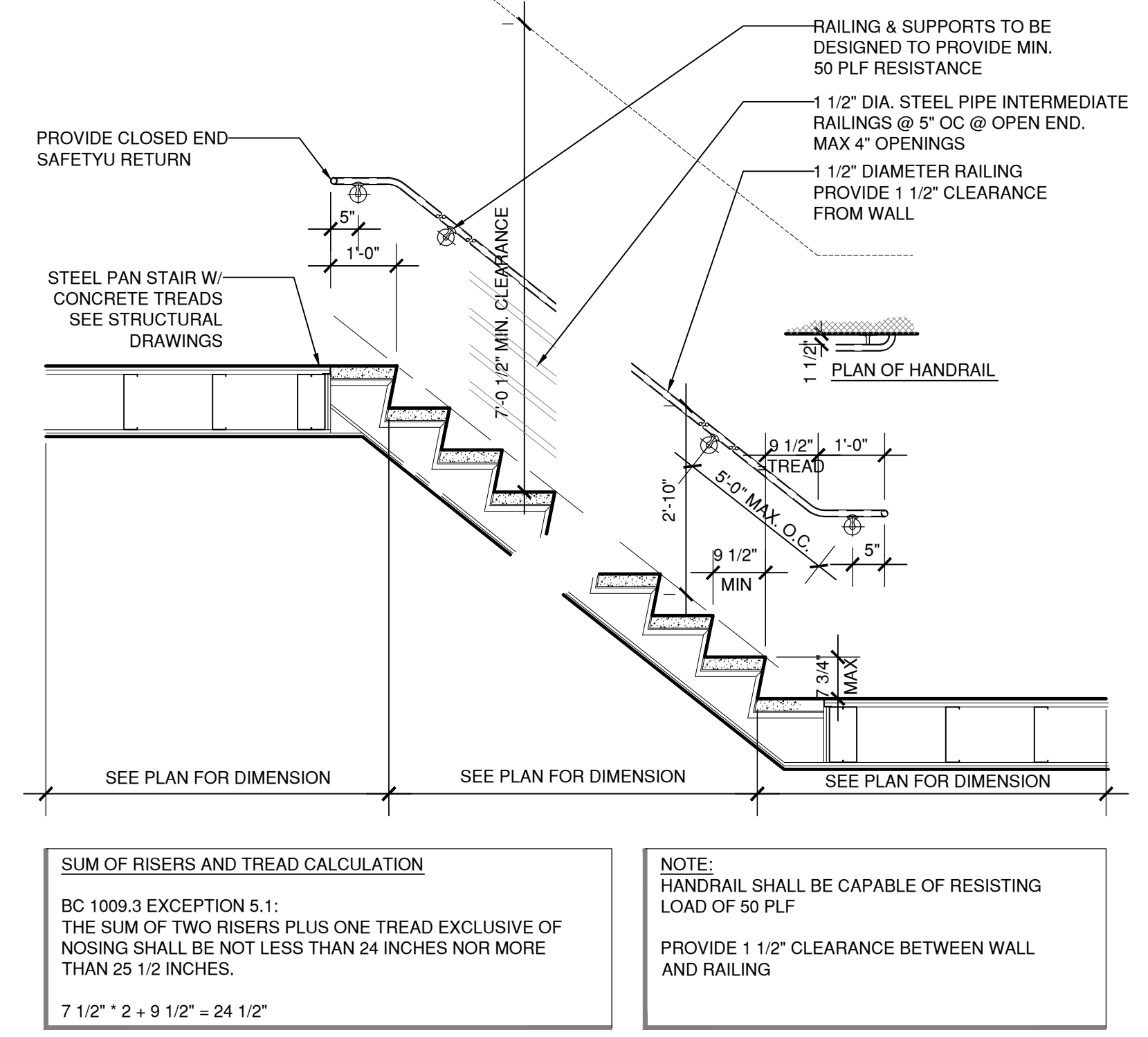
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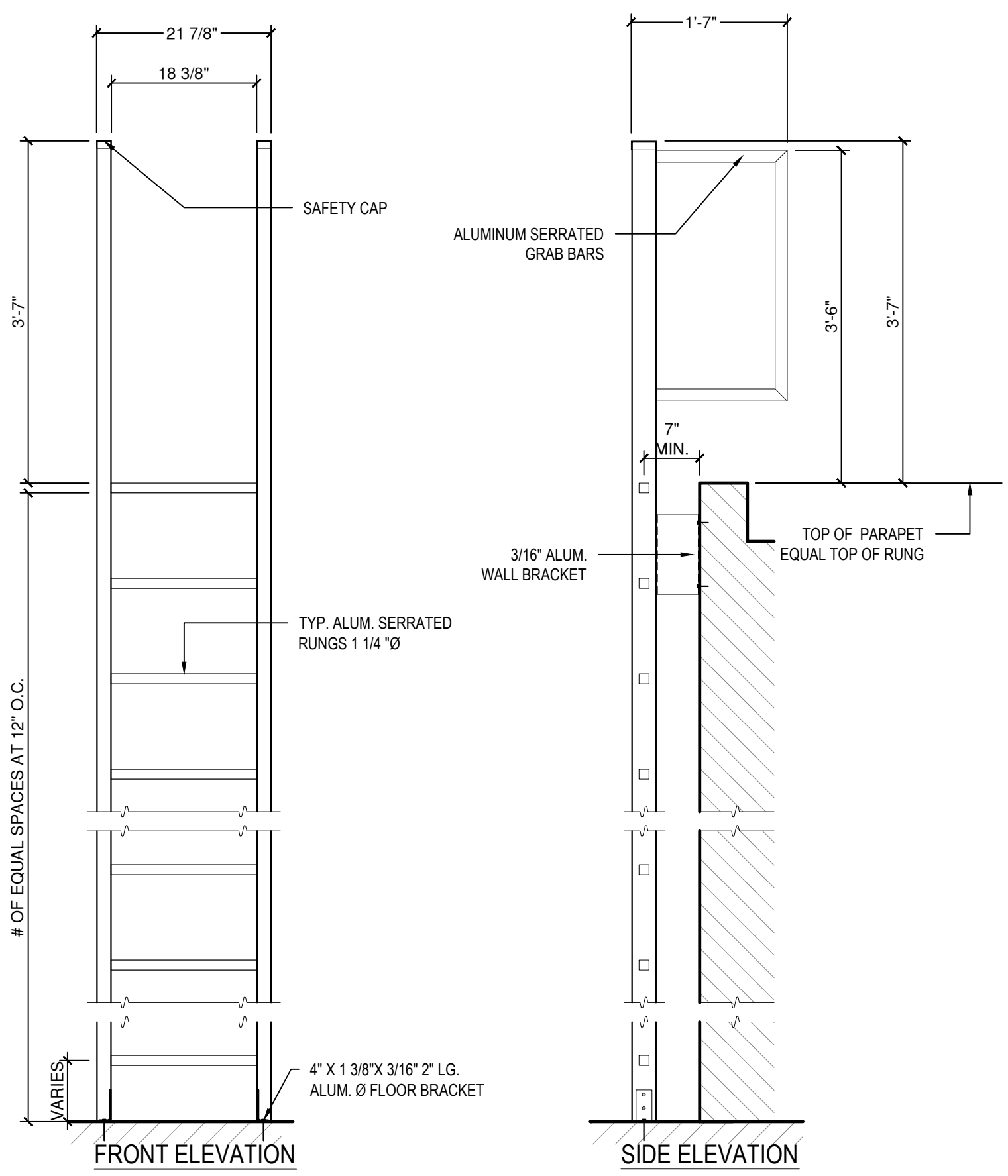
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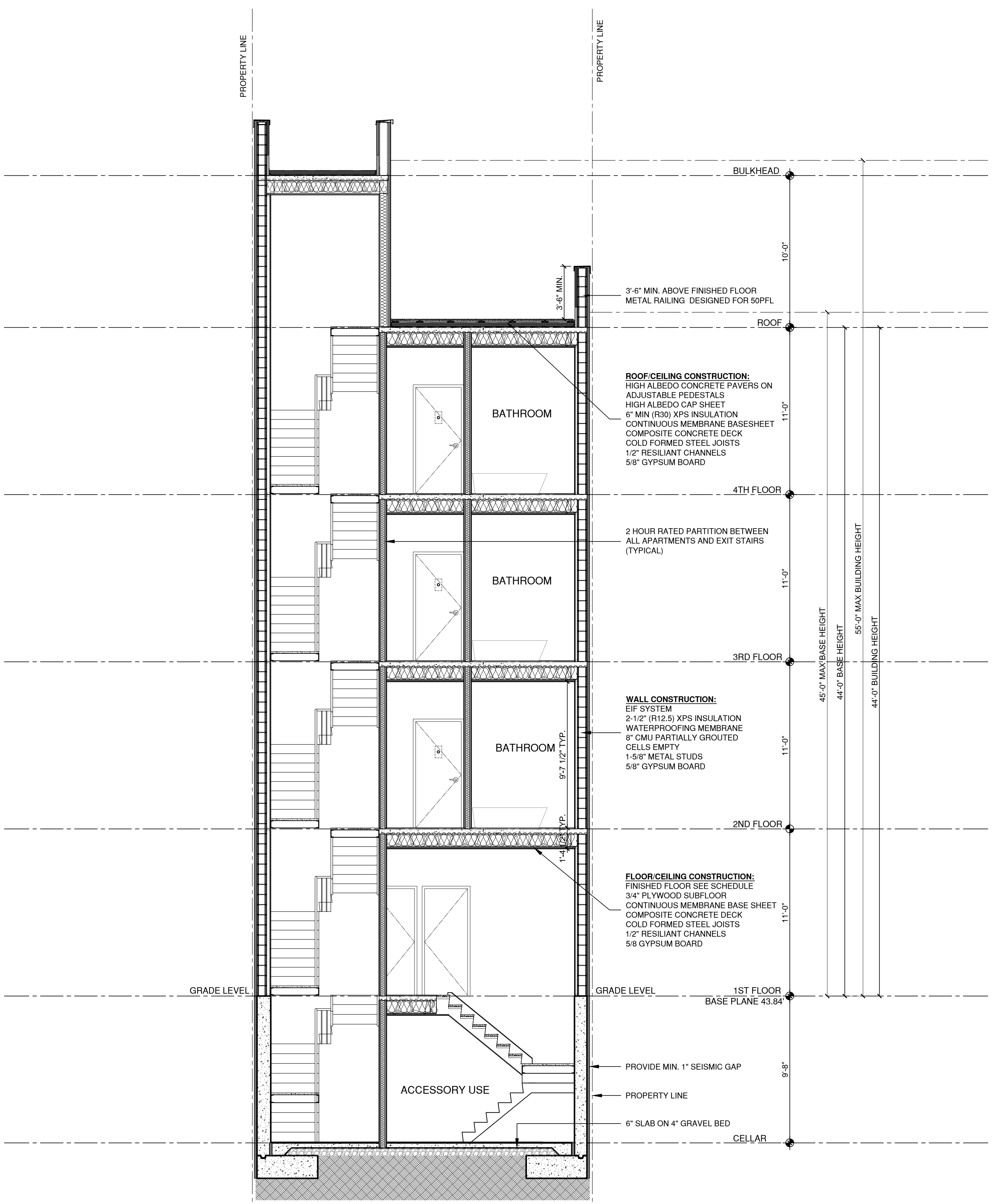
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3 STAIR DETAIL
 Scale: 1/2"=1'-0"



2 LADDER DETAIL
 Scale: 3/4"=1'-0"



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



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BUILDING SECTIONS

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EIFS WALL ASSEMBLY NOTES:

ALL BUILDINGS OVER 40 FEET IN HEIGHT SHALL HAVE APPROVED WALL ASSEMBLIES TESTED IN ACCORDANCE WITH NFPA 285. GC SHALL SUBMIT PRODUCT DATA INDICATING COMPLIANCE WITH THE FOLLOWING TESTING STANDARDS NFPA 285, NFPA 286, ASTM E 84 AND ASTM E 119:

THE FOLLOWING SPECIFICATION SHALL BE FOLLOWED AS APPLICABLE. ANY ALTERNATES SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO INSTALLATION:

- BASE WALL STRUCTURE**
USE 1, 2, 3 OR 4
- 1 CONCRETE MASONRY WALL (CMU)
 - 2 CONCRETE WALL
 - 3 STEEL STUD FRAMED WALL (16" O.C. MAX.) MINIMUM 18-GAUGE, 3/8" STUDS, WITH LATERAL BRACING EVERY 4 FT. VERTICALLY WITH ONE OF THE FOLLOWING SELECTIONS INSTALLED ON THE INTERIOR FACE SIDE OF THE STUD WALL. INSTALL MINERAL WOOL FIRE STOP, 4 LB/FT³ DENSITY, ATTACHED WITH Z-CLIPS (OR EQUIVALENT), CONTINUOUSLY AT EACH FLOOR LINE AND/OR IN EACH STUD CAVITY IF THE STUD FRAMING IS CONTINUOUS PAST THE FLOOR LINE. A) 1 LAYER OR 1/2" OR 5/8" TYPE X GYPSUM WALLBOARD (INTERIOR FACE)
- B. CAVITY AND/OR INTERIOR INSULATION**
USE 1, 2
- 1 NONE
 - 2 FIBERGLASS BATT CAVITY INSULATION (FACED OR UNFACED) COMPLYING WITH THE APPLICABLE CODE
- C. EXTERIOR SHEATHING**
USE 1, 2 OR 3
- 1 NONE
 - 2 ANY 1/2" TYPE X EXTERIOR GRADE GYPSUM SHEATHING COMPLYING WITH THE APPLICABLE CODE
 - 3 ANY 5/8" TYPE X EXTERIOR GRADE GYPSUM SHEATHING COMPLYING WITH THE APPLICABLE CODE
- D. AIR AND WATER BARRIER SYSTEMS**
USE 1, 2, 3 OR 4
- 1- STO GOULD COAT WITH STOGUARD FABRIC
 - 2- STO EMERALD COAT WITH STOGUARD FABRIC
 - 3- STO EMERALD COAT WITH STOGUARD FABRIC
 - 4- STO EXTRASEAL WITH STOGUARD MESH
- E. EXTERIOR CONTINUOUS INSULATION (CI)**
STO INSUL-X (MAXIMUM 3" THICK)
- F. EIFS**
STOTHERM ESSENCE NEXT OR STOTHERM ESSENCE

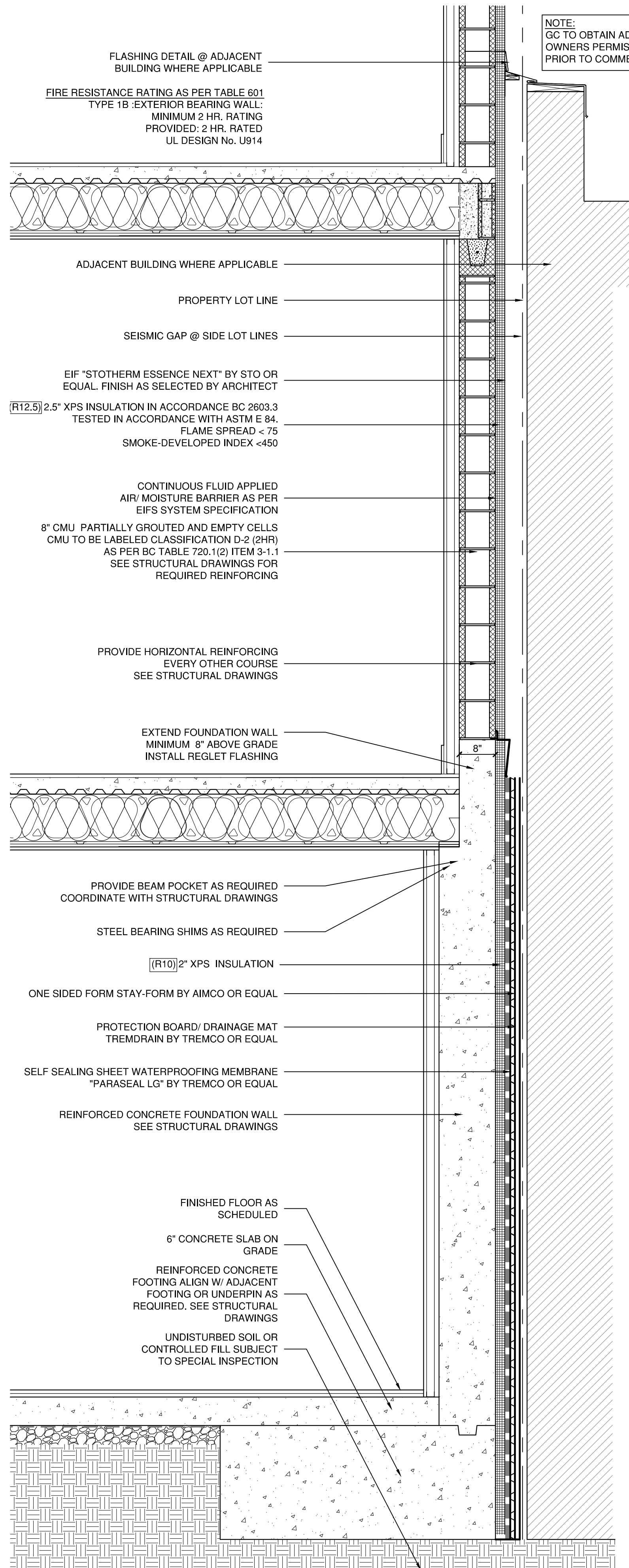
NOTE: ALL INTERIOR PARAPET WALLS DESIGNED FOR OCCUPANCY SHALL UTILIZE HIGH IMPACT GRADE MESH

BRICK VENEER WALL ASSEMBLY NOTES:

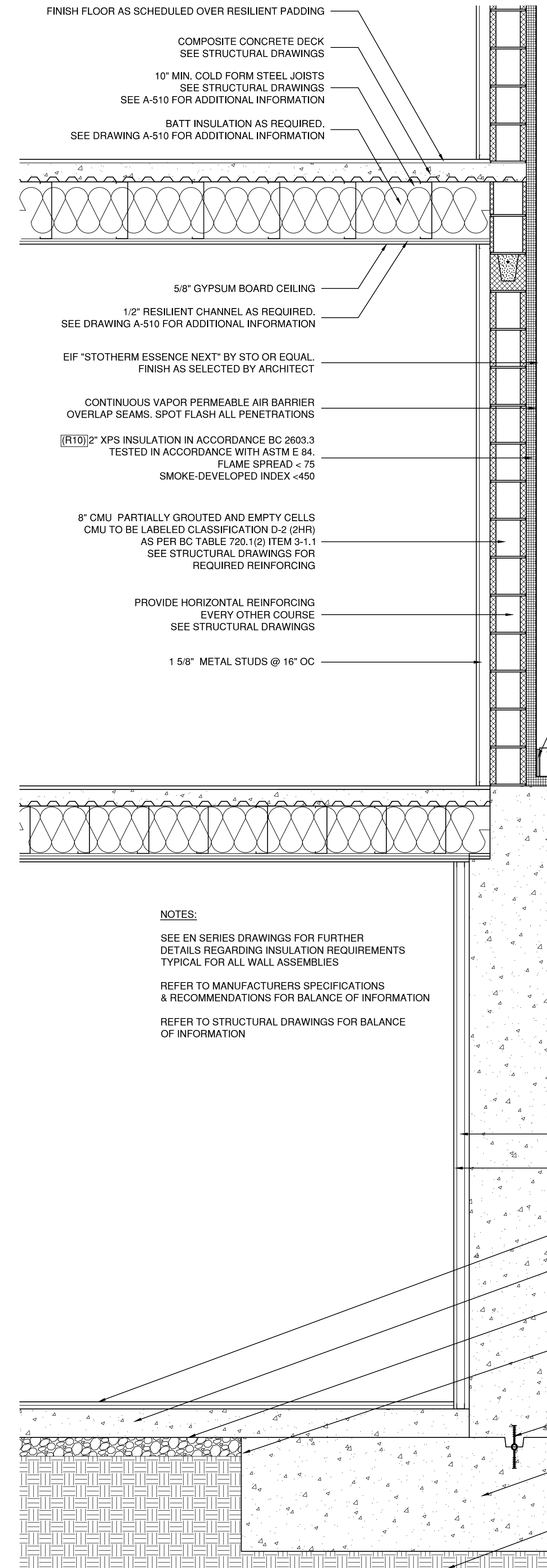
ALL BUILDINGS OVER 40 FEET IN HEIGHT SHALL HAVE APPROVED WALL ASSEMBLIES TESTED IN ACCORDANCE WITH NFPA 285. GC SHALL SUBMIT PRODUCT DATA INDICATING COMPLIANCE WITH THE FOLLOWING TESTING STANDARDS NFPA 285, NFPA 286, ASTM E 84 AND ASTM E 119:

THE FOLLOWING SPECIFICATION SHALL BE FOLLOWED AS APPLICABLE. ANY ALTERNATES SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO INSTALLATION:

- BASE WALL STRUCTURE**
USE 1, 2, 3 OR 4
- 1 CONCRETE MASONRY WALL (CMU)
 - 2 STANDARD CLAY BRICK WALL
 - 3 CONCRETE WALL
 - 4 STEEL STUD FRAMED WALL (24" O.C. MAX.) MINIMUM 20-GAUGE, 3/8" STUDS, WITH LATERAL BRACING EVERY 4 FT. VERTICALLY WITH ONE OF THE FOLLOWING SELECTIONS INSTALLED ON THE INTERIOR FACE SIDE OF THE STUD WALL. INSTALL MINERAL WOOL FIRE STOP, 4 LB/FT³ DENSITY, ATTACHED WITH Z-CLIPS (OR EQUIVALENT), CONTINUOUSLY AT EACH FLOOR LINE AND/OR IN EACH STUD CAVITY IF THE STUD FRAMING IS CONTINUOUS PAST THE FLOOR LINE. A) 1 LAYER OR 1/2" OR 5/8" TYPE X GYPSUM WALLBOARD (INTERIOR FACE) B) W.R. GRADE MONOKOTES Z-3886, 3/8" THICK MINIMUM, INSTALLED OVER: C) CAVITY INSULATION, SEE SECTION B, CAVITY AND/OR INTERIOR INSULATION, MATERIAL OPTION 3. D) DOW THERMAX[®], ANY THICKNESS UP TO 4.25" E) INTERNATIONAL CELLULOSE CORP. URE-K[®] THERMAL BARRIER SYSTEM (ESR-2110) - 1.25" MINIMUM, INSTALLED OVER: I) CAVITY INSULATION, SEE SECTION B, CAVITY AND/OR INTERIOR INSULATION, MATERIAL OPTION 3 OR: II) THERMAX[®], ANY THICKNESS D) SPECIALTY PRODUCTS, INC. FLAME SEAL-TB[®] COATING APPLIED AT A WET MIL THICKNESS OF 25 MILS (18 MILS DRY, 65 FT² / GAL) OVER CAVITY INSULATION. SEE SECTION B, CAVITY AND/OR INTERIOR INSULATION, MATERIAL OPTION 3. E) INTERNATIONAL FIREPROOF TECHNOLOGY, INC. DC 315 APPLIED AT AN APPLICATION RATE OF 18 WET MILS APPLIED OVER 4 MILS OF PRIMER WHICH IS APPLIED OVER CAVITY INSULATION. SEE SECTION B, CAVITY AND/OR INTERIOR INSULATION, MATERIAL OPTION 3.
- B. CAVITY AND/OR INTERIOR INSULATION**
USE 1, 2 OR 3
- 1 NONE
 - 2 FIBERGLASS BATT CAVITY INSULATION (FACED OR UNFACED) COMPLYING WITH THE APPLICABLE CODE
 - 3 SPRAY POLYURETHANE FOAM CAVITY INSULATION, STYROFOAM[®] SPF CM2030, CM2045, CM 2060 (ESR-2670). USE EXTERIOR SHEATHING AS SUBSTRATE AND COVER THE WIDTH OF THE CAVITY INCLUDING INSIDE THE STUD FLANGE.
- C. EXTERIOR SHEATHING**
USE 1, 2 OR 3
- 1 NONE
 - 2 ANY 1/2" TYPE X EXTERIOR GRADE GYPSUM SHEATHING COMPLYING WITH THE APPLICABLE CODE
 - 3 ANY 5/8" TYPE X EXTERIOR GRADE GYPSUM SHEATHING COMPLYING WITH THE APPLICABLE CODE
- D. AIR AND WATER BARRIER SYSTEMS APPLIED OVER SHEATHING (AIR BARRIER INSTALLED PER DUPONT INSTALLATION INSTRUCTIONS)**
MECHANICALLY FASTENED MEMBRANE AND SELF-ADHERED BUTYL FLASHING - USE:
1) DUPONT[®] TYVEK[®] COMMERCIAL WRAP[®]
USE APPROPRIATE COMBINATION OF DUPONT[®] STRAIGHTFLASH[®], DUPONT[®] FLEXWRAP[®], NF, DUPONT[®] STRAIGHTFLASH[®] VF
NOTE: MAXIMUM 4" FLASHING WIDTH MAY BE USED WITH SPRAY PRIMER (IF APPLICABLE).
- E. EXTERIOR CONTINUOUS INSULATION (CI)**
USE 1, 2A OR 2B
- 1 NONE (1/2" OR 5/8" THICK, EXTERIOR GYPSUM SHEATHING COMPLYING WITH THE APPLICABLE CODE MUST BE USED)
 - 2 POLYISOCYANURATE FOAM INSULATION BOARD (POLYISO)
 - A) THERMAX[®] RIGID INSULATION BOARD (5/8" UP TO 3" THICK)2
 - B) THERMAX[®] RIGID INSULATION BOARD (5/8" UP TO 4.25" THICK)3
- NOTE: REFER TO INSULATION MANUFACTURE FOR FINAL PRODUCT RECOMMENDATION AND SELECTION.
- F. AIR AND WATER BARRIER SYSTEMS APPLIED OVER EXTERIOR INSULATION.**
N/A
- G. EXTERIOR CLADDING**
USE ANY CLADDING LISTED (CLADDINGS 1E - 1H TO BE USED WITH A MAXIMUM OF 3" OF INSULATION)
- 1 EXTERIOR WALL CLADDINGS OVER THERMAX[®] INSULATION (5/8" - 4.25" MAX.)
 - A) BRICK - USE STANDARD NOMINAL 4" THICK, CLAY BRICK. USE STANDARD BRICK VENEER ANCHORS INSTALLED VERTICALLY ON EACH STUD AT A MAXIMUM OF 24" O.C. WITH A 2" MAXIMUM AIR GAP BETWEEN THE EXTERIOR INSULATION AND BRICK.
 - B) STONE VENEER - MINIMUM 2" THICK LIMESTONE OR NATURAL STONE OR MINIMUM 1 1/2" THICK CAST ARTIFICIAL STONE VENEER
 - C) "34" STUCCO - MINIMUM 3/4" THICK, EXTERIOR CEMENT PLASTER AND LATH. AN OPTIONAL SECONDARY WATER-RESISTIVE BARRIER CAN BE INSTALLED BETWEEN THE EXTERIOR INSULATION AND THE LATH. THE SECONDARY WATER-RESISTIVE BARRIER MUST NOT BE FULL-COVERAGE ASPHALT OR BUTYL-BASED SELF-ADHERED MEMBRANES.
 - D) TERRACOTTA CLADDING SYSTEM - MINIMUM 1 1/4" INSTALLED USING ANY STANDARD NON-OPEN-JOINT INSTALLATION TECHNIQUE SUCH AS SHIP-LAP, ETC. CAN BE USED.
 - E) METAL COMPOSITE MATERIAL (ACM/MCM) - USE ANY METAL COMPOSITE MATERIAL SYSTEM THAT HAS BEEN SUCCESSFULLY TESTED BY THE PANEL MANUFACTURER VIA NFPA 285 TEST METHOD. INSTALLED USING STANDARD INSTALLATION TECHNIQUES. EVIDENCE OF TESTING IN ACCORDANCE WITH NFPA 285 AND/OR AN ICC-ES REPORT MUST BE SUBMITTED TO THE CODE OFFICIAL.
 - F) METAL EXTERIOR WALL COVERINGS - INCLUDING BUT NOT LIMITED TO STEEL, ALUMINUM, AND COPPER INSTALLED USING STANDARD INSTALLATION TECHNIQUES.
 - G) CEMENT BOARD SIDING - INSTALLATION IN ACCORDANCE WITH SIDING MANUFACTURER INSTALLATION INSTRUCTIONS OR AN ICC-ES EVALUATION REPORT FOR THE SIDING PRODUCT.
 - H) STONELITE[®] WALL PANELS BY STONE PANELS (ESR-1500)
*CLADDING FASTENERS MUST PENETRATE THROUGH THE FOAM PLASTIC INTO WOOD OR STEEL FRAMING AND THE SYSTEM MUST BE DESIGNED TO HANDLE CLADDING LOAD AND WIND LOAD, PER APPLICABLE CODE.



2 WALL SECTION @ PROPERTY LINE
Scale: 3/4"=1'-0"



1 WALL SECTION @ STREET LINE
Scale: 3/4"=1'-0"

Energy Code	WT-C1 Concrete Mass Walls	U-value=	0.080
Energy Code	WT-C2 Concrete Mass Walls	U-value=	0.077

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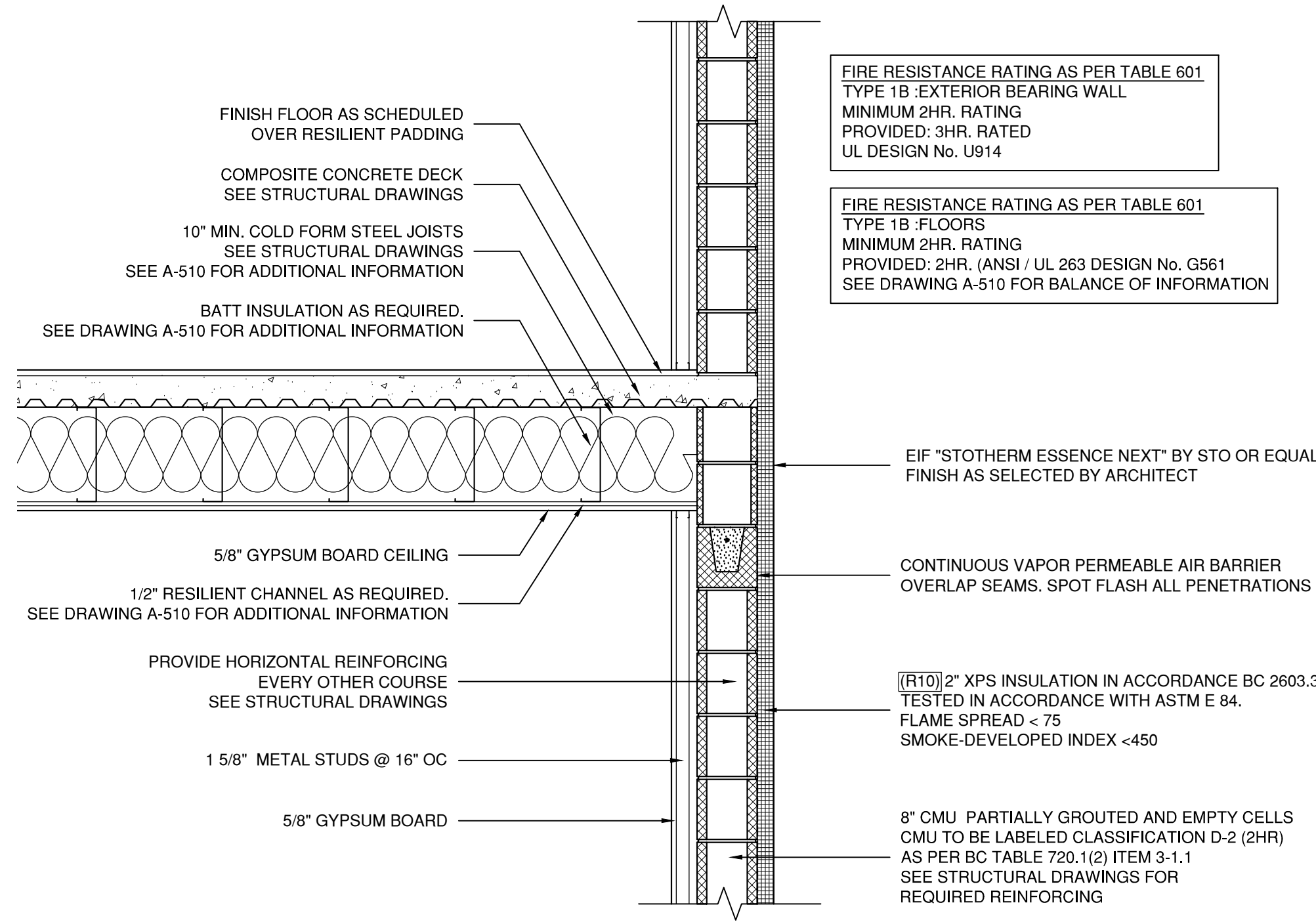


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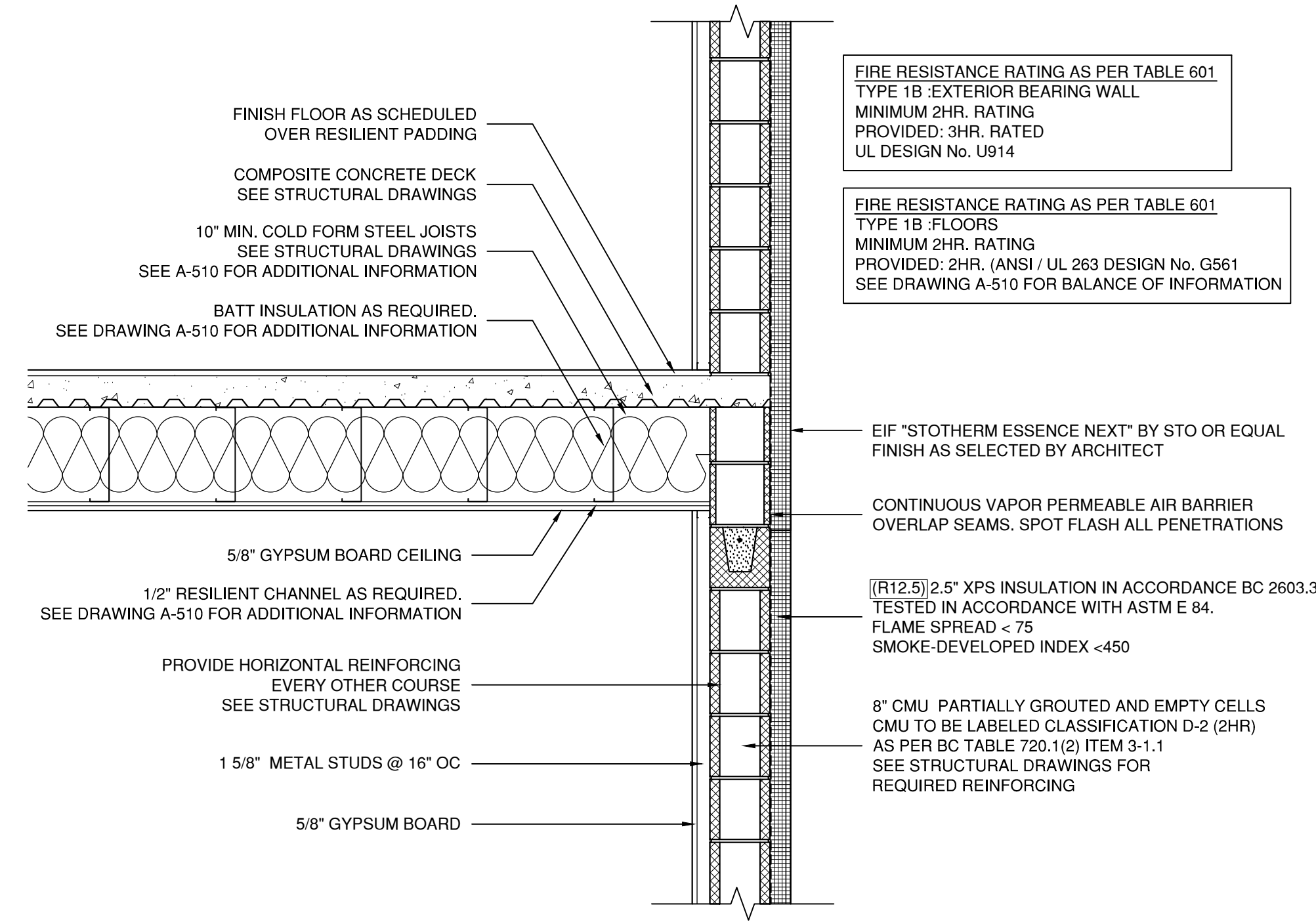
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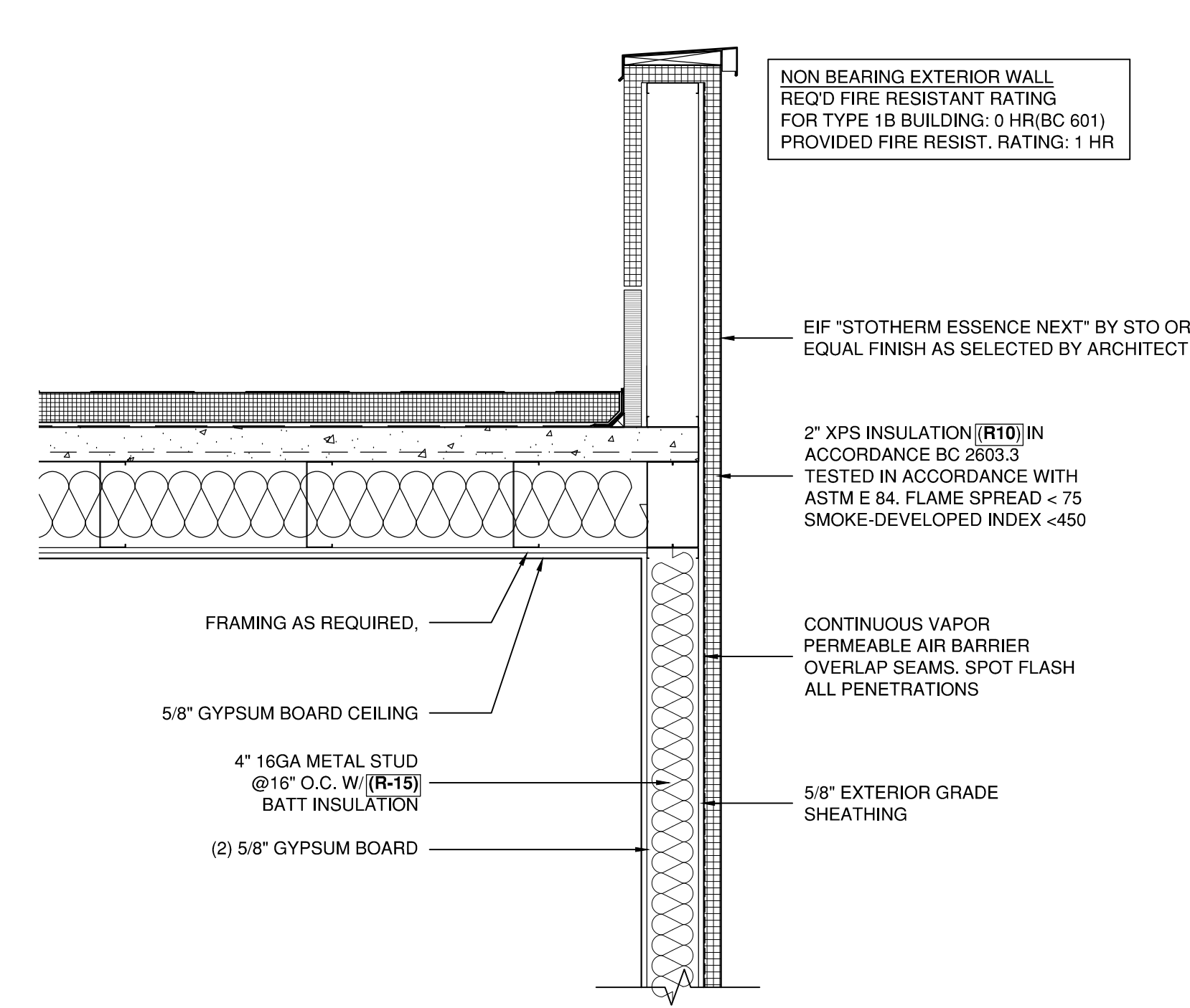
1 WALL SECTION @ FRONT FACADE
 Scale: 3/4"=1'-0"

Energy Code	WT-1 Mass Wall	U-value=	0.076
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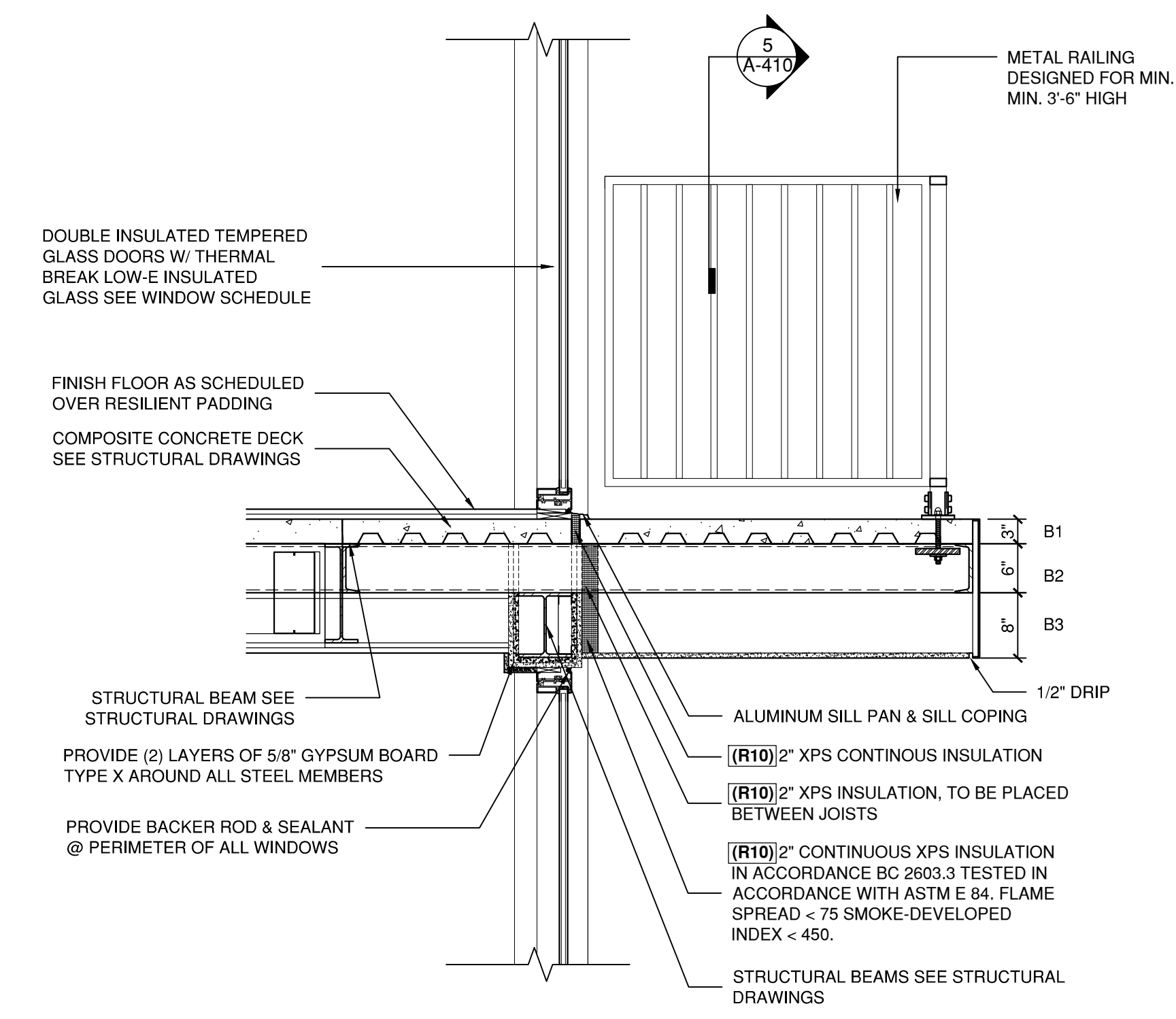
2 WALL SECTION @ LOT LINE / REAR
 Scale: 3/4"=1'-0"

Energy Code	WT-2 Mass Wall	U-value=	0.064
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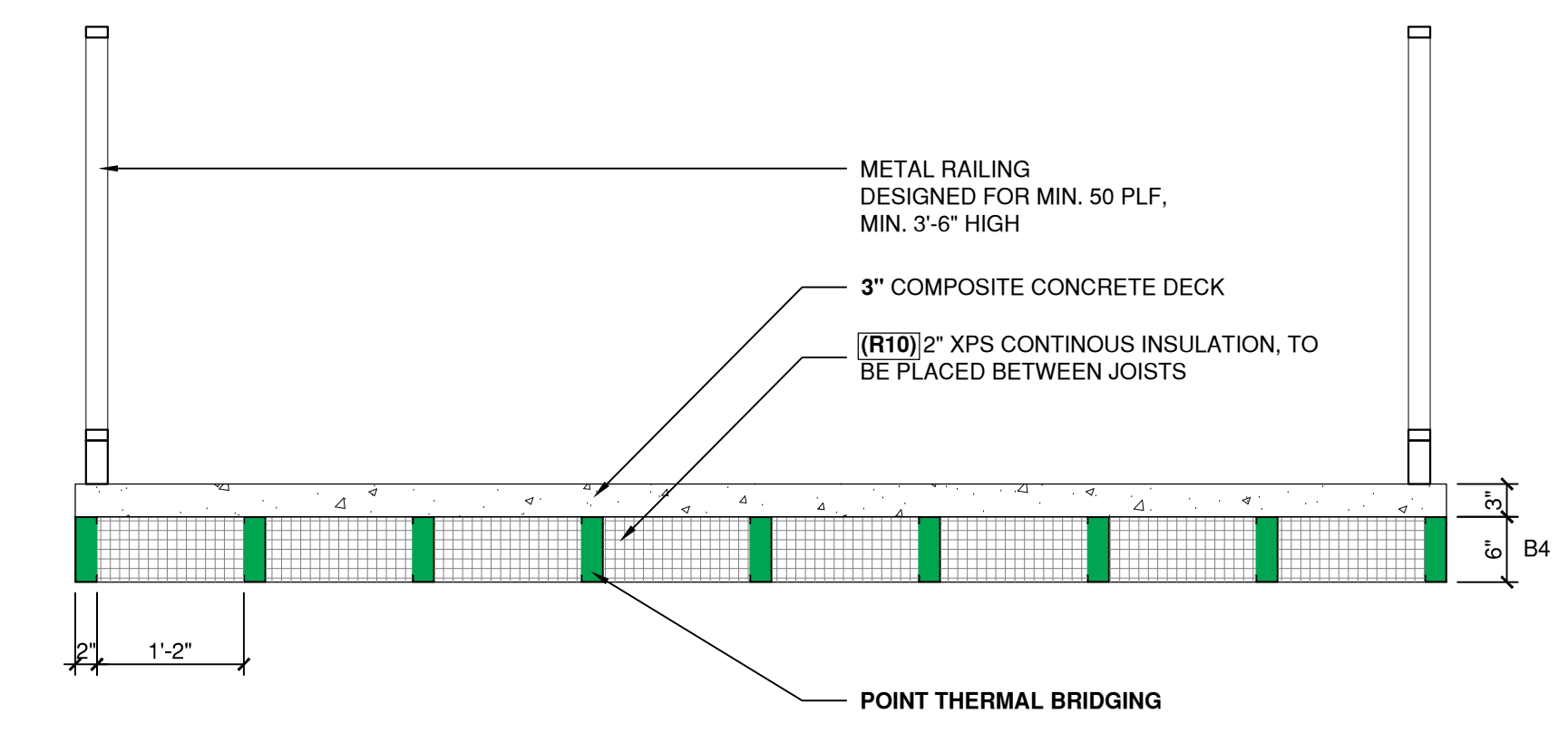
3 WALL SECTION @ BULKHEAD
 Scale: 3/4"=1'-0"

Energy Code	WT-3 Metal Wall	U-value=	0.054
Energy Code	WT-3 Mass @ Slab	U-value=	0.086



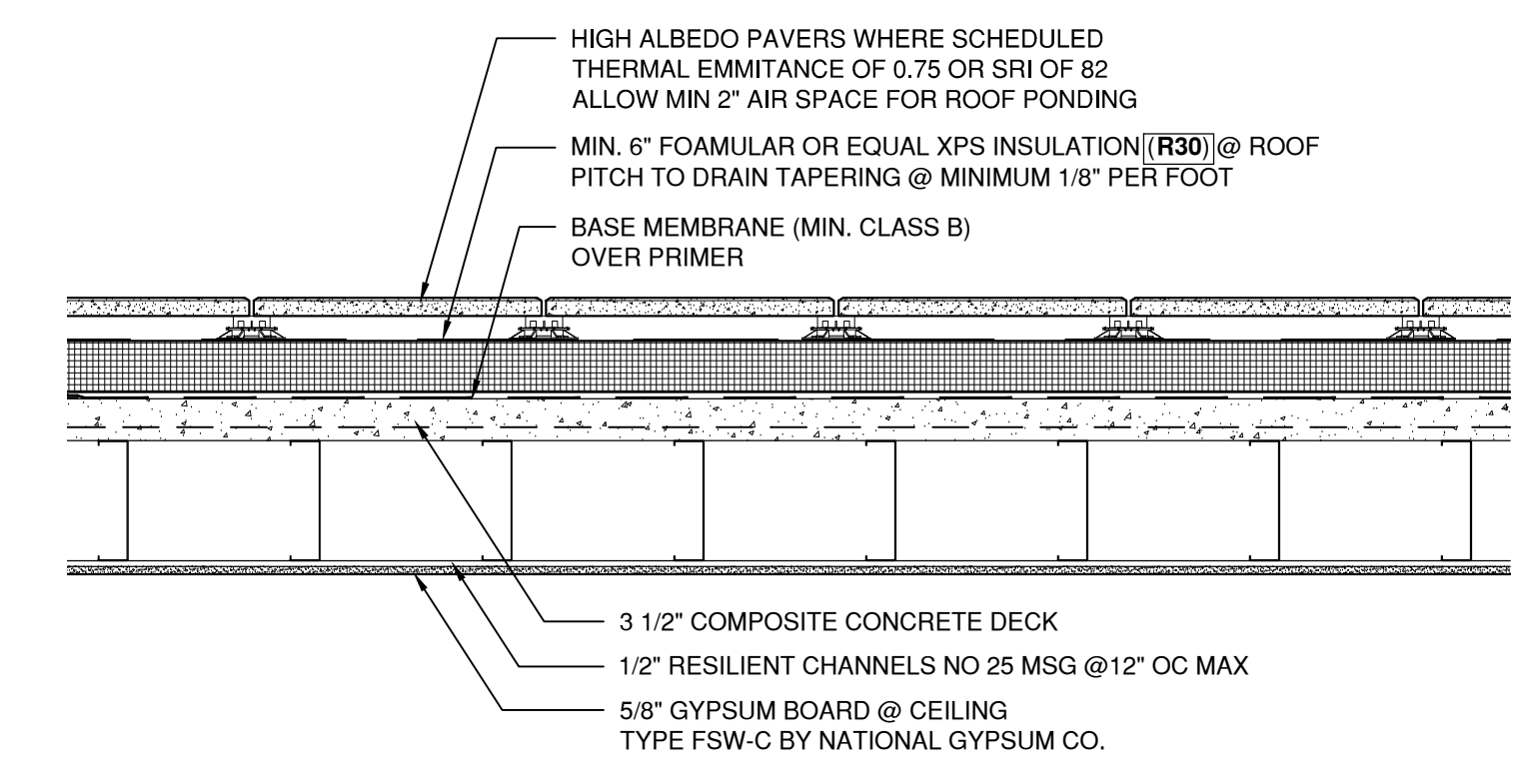
4 SECTION @ BALCONY
 Scale: 3/4"=1'-0"

Energy Code	WT-B1	U-value=	0.087
Energy Code	WT-B2	U-value=	0.135
Energy Code	WT-B3	U-value=	0.078

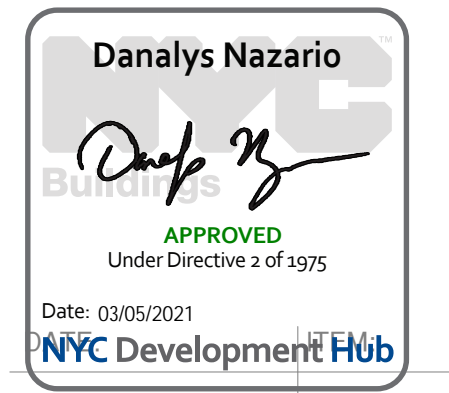


KEY	LINEAR THERMAL BRIDGES						
Color	LTB.no	TYPE OF THERMAL BRIDGES	U - VALUE [Btu/hr*ft² F]	U - VALUE SOURCE / CALCULATION	TOTAL LENGTH [ft]	ASSEMBLY ID IN ENERGY ANALYSIS	SECTION DETAIL LOCATION
	LTB.1	BALCONY	0.352	VALUE AS PER COMCHECK	36	WT-B4	4/A410

5 CROSS SECTION @ BALCONY
 Scale: 3/4"=1'-0"



6 SECTON @ BULKHEAD FLOOR
 Scale: 3/4"=1'-0"



03/05/2020	DOB SUBMISSION
11/25/2020	DOB SUBMISSION
10/22/2020	DOB SUBMISSION

PROJECT
 32 EAST 29TH STREET
 BROOKLYN, NY 11226

DRAWING TITLE
WALL DETAILS

PROJECT NO:	SEAL & SIGNATURE
DRAWN BY:	
CHECKED BY:	
PAGE NO. 20 OF 33	
DRAWING NO.	

A-410.00

D.O.B. #

321598268

PROJECT **32**
 32 EAST 29TH STREET
 BROOKLYN, NY 11226

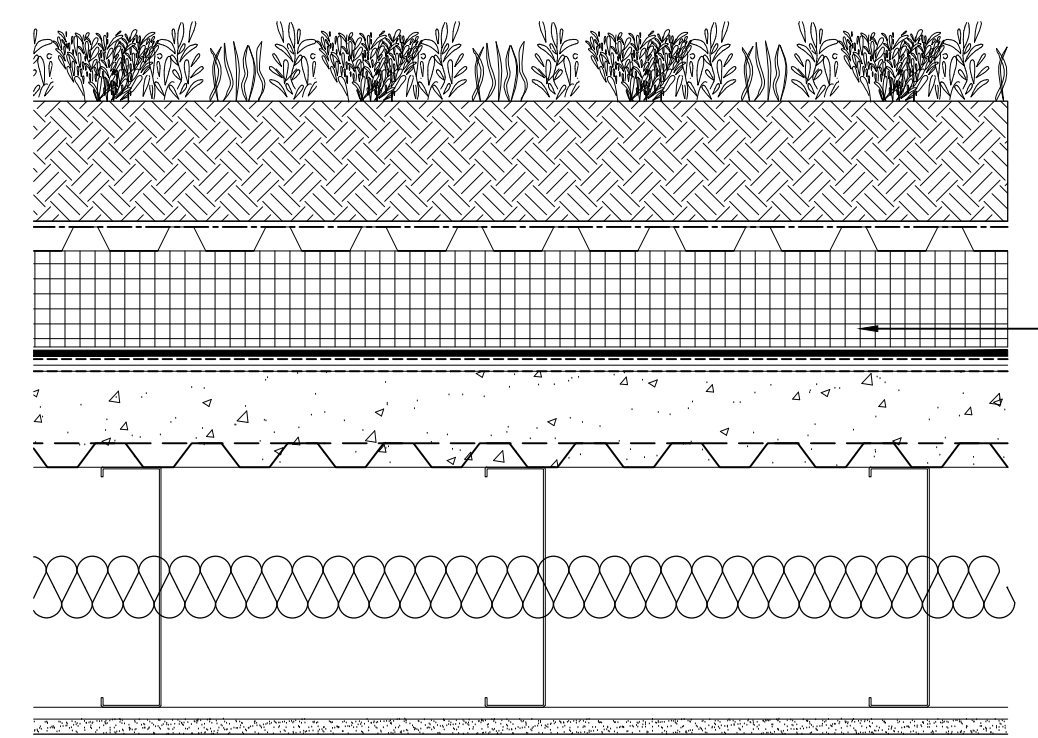
ARCHITECT
ARC Architecture + Design Studio
 71-01 Austin Street Forest Hills, NY 11375
 T. 718. 360-7065 E. Info@ARCdesignNYC.com

STRUCTURAL ENGINEER
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 64-07 102nd Street, Rego Park, ny 11374
 T. 718-793-8345
 E. Robert@randoconsulting.com

MECHANICAL ENGINEER
Fabian Cruz, PE PLLC
 Consulting Engineers
 8-03 College Point Blvd, College Point, NY 11356
 T. 917.657-3387

ROOF NOTES:

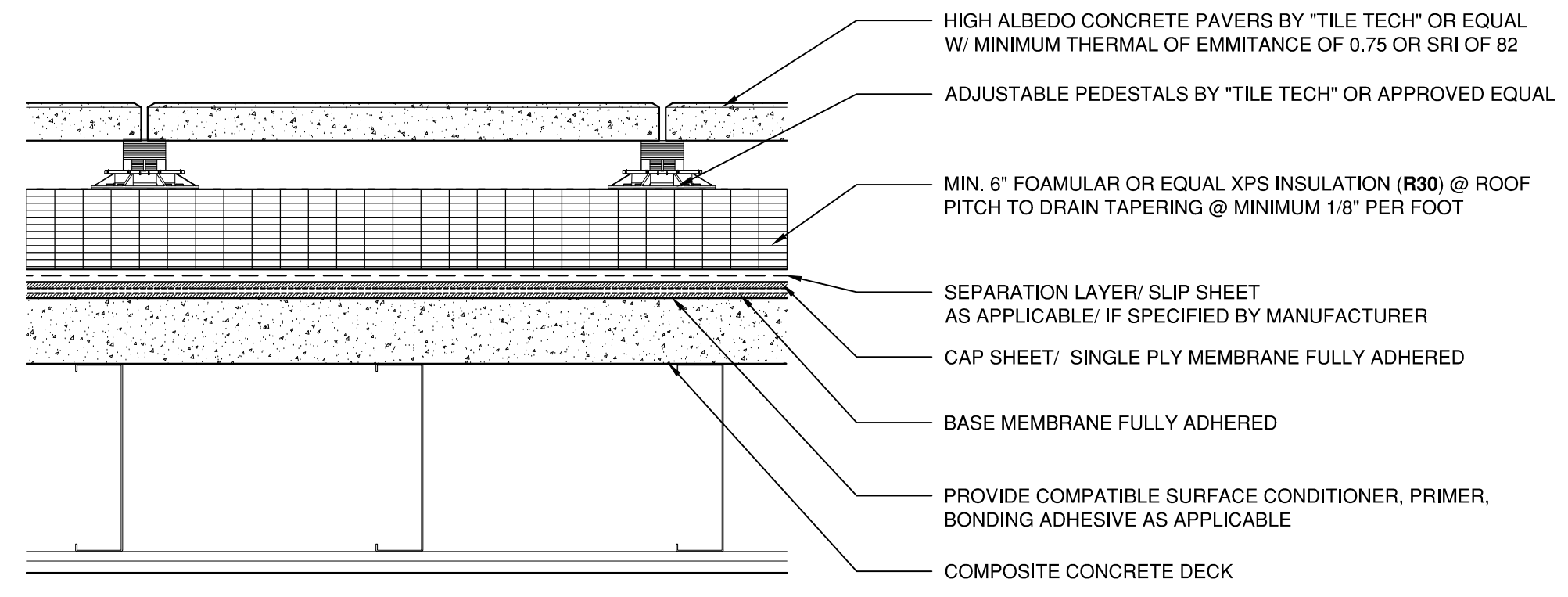
1. ROOF ASSEMBLIES SHALL BE UL CLASS A/ FM-1 RATED SYSTEMS.
2. ROOF SYSTEMS SHALL BE ONE OF THE FOLLOWING TYPES: SBS MODIFIED BITUMEN, EPDM OR TPO ROOF SYSTEMS MINIMUM 60 mil.
3. ALL EXPOSED ROOF MEMBRANES, PAVERS, ETC SHALL HAVE A MINIMUM THERMAL OF EMMITANCE OF 0.75 OR SRI OF 82
4. OCCUPIED ROOFS SHALL BE PROTECTED ROOF MEMBRANE (IRMA) ASSEMBLIES
5. ACCEPTABLE MANUFACTURERS ARE AS FOLLOWS: FIRESTONE, DOW INC, HENRY ROOF, HYDROTECH USA, OR APPROVED EQUAL
6. ALL ROOF SYSTEMS SHALL CARRY A MINIMUM 20 YEAR MANUFACTURERS WARRANTY, AND MINIMUM 2 YEAR INSTALLERS WARRANTY
7. ALL AVAILABLE PRODUCT DATA AND SAMPLES SHALL BE SUBMITTED TO THE ARCHITECT AND OWNER PRIOR TO INSTALLATION
8. INSTALLER SHALL REFER TO, AND COMPLY WITH THE MOST RECENT MANUFACTURERS INSTALLATION INSTRUCTIONS, RECOMMENDATIONS AND DETAILS
9. MANUFACTURERS DETAILS SHALL OVERRIDE ANY CONFLICTED INFORMATION INDICATED



GREEN ROOF CONSTRUCTION: (BY HENRY COMMERCIAL OR EQUAL)
 VEGETATION
 GROWING MEDIA
 FILTER FABRIC
 MOISTURE RETENTION MAT
 DB50 OR DB100 WATER RETENTION/DRAINAGE LAYER
 MIN. 6" FOAMULAR OR EQUAL XPS INSULATION (R30) @ ROOF PITCH TO DRAIN TAPERING @ MINIMUM 1/8" PER FOOT
 ROOT BLOC 20
 G100SS PROTECTION COURSE
 790-11EV MEMBRANE
 POLYESTER REINFORCEMENT
 790-11EV MEMBRANE
 ADHESIVE/PRIMER
 REFER TO DRAWING A-420 FOR ROOF CONSTRUCTION

1 DETAIL @ GREEN ROOF ASSEMBLY BY HENRY OR EQ

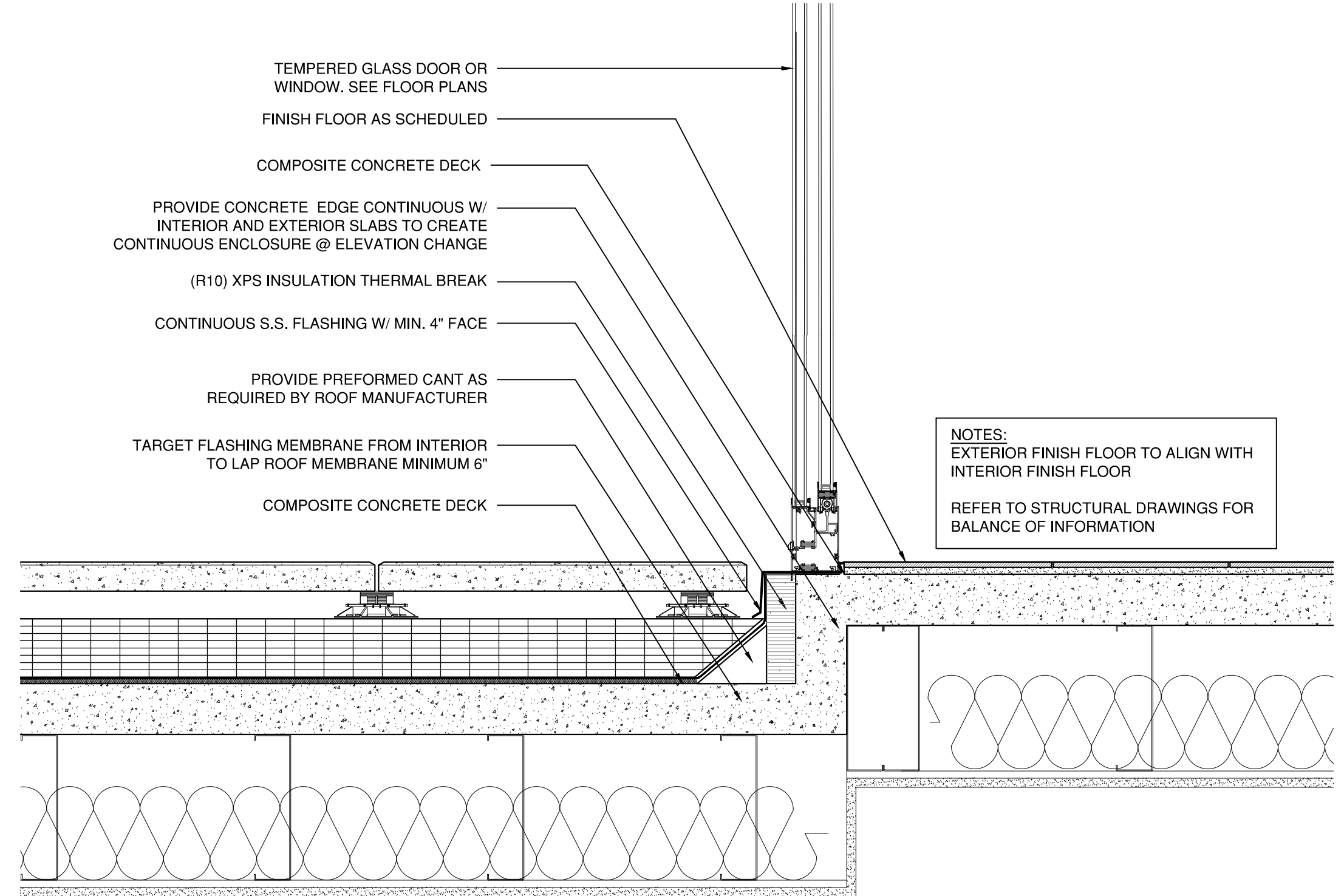
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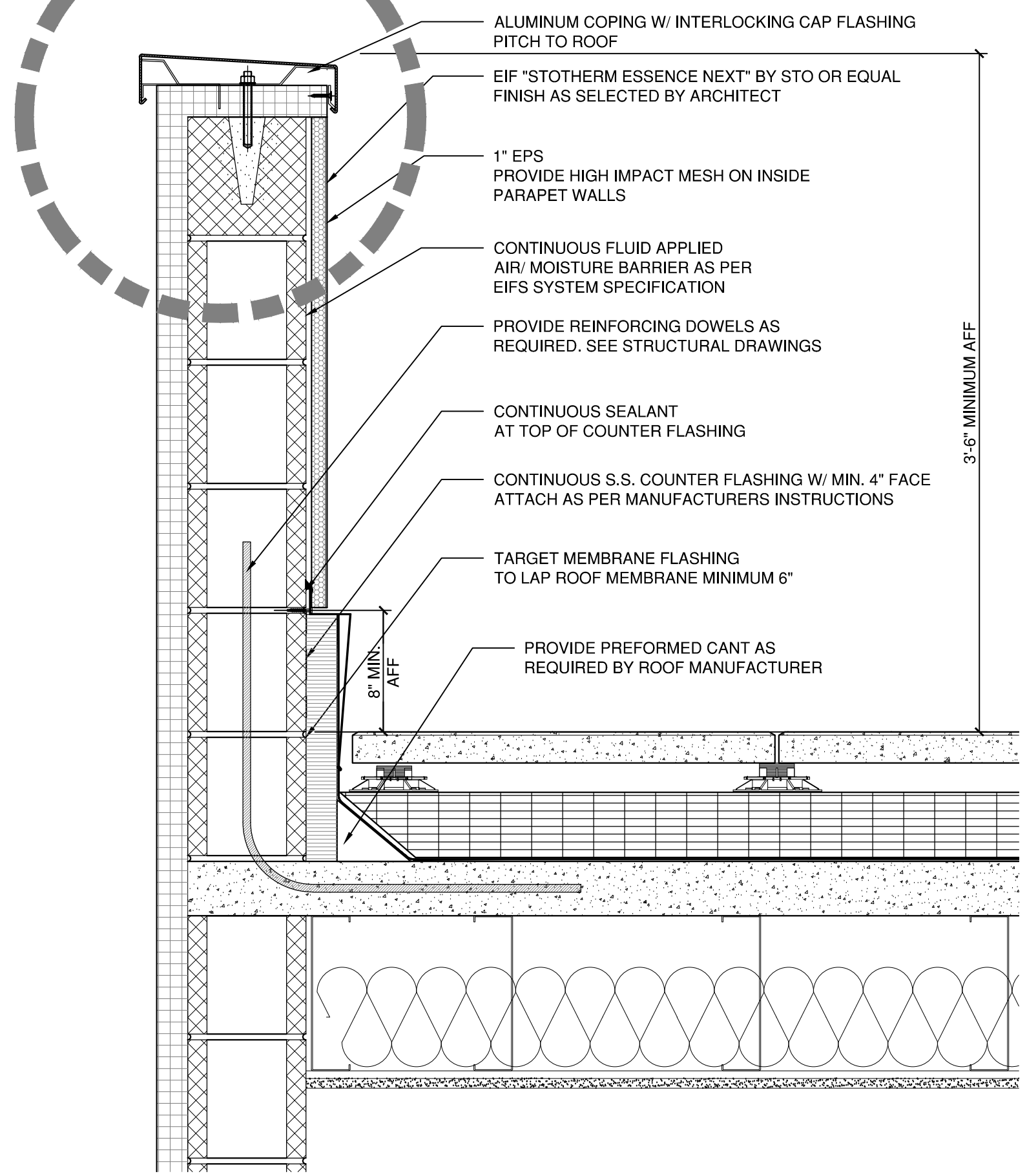
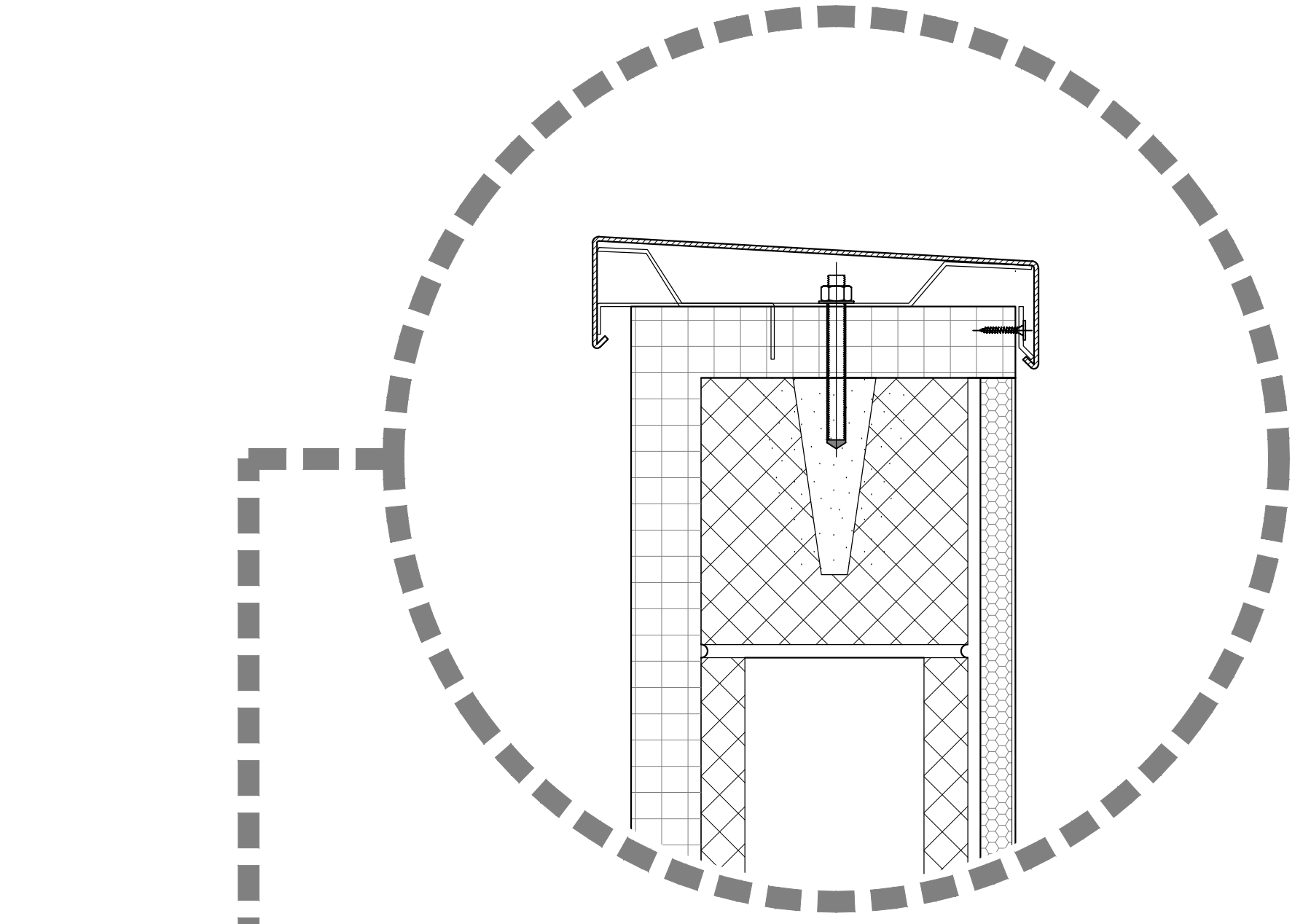
2 DETAIL @ PROTECTED MEMBRANE ROOF ASSEMBLY

Scale: 1 1/2"=1'-0"

Energy Code | RT-1 Roof Insulated | U-value= 0.032

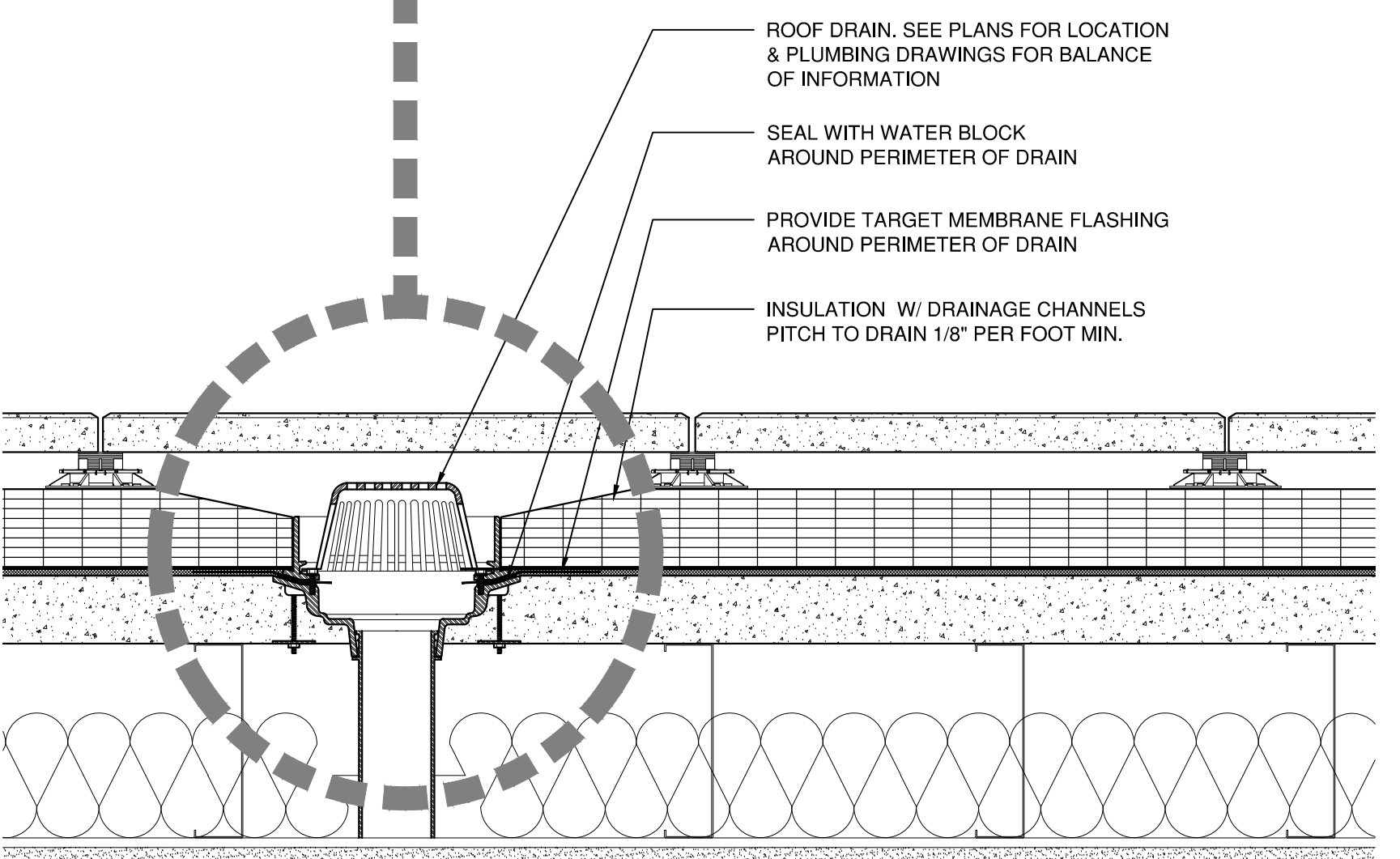
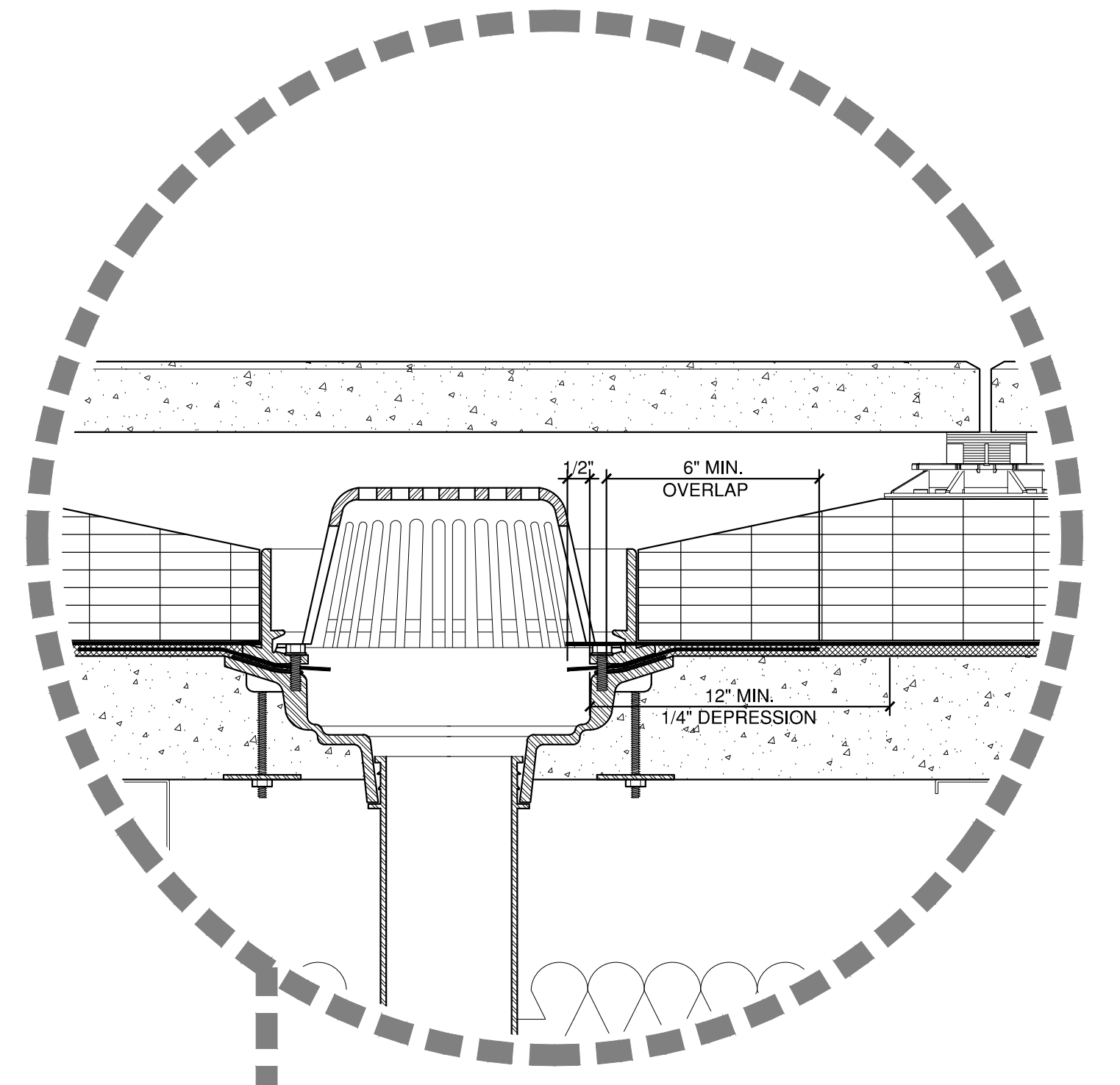


NOTES:
 EXTERIOR FINISH FLOOR TO ALIGN WITH INTERIOR FINISH FLOOR
 REFER TO STRUCTURAL DRAWINGS FOR BALANCE OF INFORMATION



5 DETAIL @ ROOF/ PARAPET

Scale: 1 1/2"=1'-0"



4 DETAIL @ ROOF/ DRAIN

Scale: 1 1/2"=1'-0"

3 DETAIL @ ROOF ELEVATION TRANSITION

Scale: 1 1/2"=1'-0"

Danalys Nazario

 APPROVED
 Under Directive 2 of 1975
 Date: 03/05/2021
 NYC Development Hub

03/05/2020	DOB SUBMISSION
11/25/2020	DOB SUBMISSION
10/22/2020	DOB SUBMISSION

PROJECT
 32 EAST 29TH STREET
 BROOKLYN, NY 11226

DRAWING TITLE
ROOF DETAILS

PROJECT NO:
 DRAWN BY:
 CHECKED BY:
 PAGE NO. 21 OF 33
 DRAWING NO.

SEAL & SIGNATURE

A-420.00

D.O.B. #

321598268

PROJECT **32**
 32 EAST 29TH STREET
 BROOKLYN, NY 11226

ARCHITECT
ARC Architecture + Design Studio
 71-01 Austin Street Forest Hills, NY 11375
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MECHANICAL ENGINEER
Fabian Cruz, PE PLLC
 Consulting Engineers
 8-03 College Point Blvd, College Point, NY 11356
 T. 917.657-3387

PARTITION NOTES

- UL DESIGNS ARE BASED UPON THE TEST METHOD AND ACCEPTANCE CRITERIA IN ANSILUL263 (ASTM E119), "FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS"
- REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR FASTENING AND FINISHING REQUIREMENTS.
- ALL DIMENSIONS ON PLANS ARE TO FINISH UNLESS OTHERWISE NOTED.
- ALL PARTITIONS WITH ACOUSTIC INSULATION SHALL HAVE PERIMETER CAULKING AS PER MANUFACTURERS RECOMMENDATION AS NECESSARY TO MAINTAIN THE PRESCRIBED STC RATING.
- USE MOISTURE RESISTANT GWB IN ALL TOILETS, AT WALLS & CEILING
- ALL FIRE RATED PARTITIONS SHALL HAVE UL APPROVAL NO. ALL FIRE RATED PARTITIONS SHALL EXTEND TO UNDERSIDE OF STRUCTURE.
- ALL PARTITIONS TO SUPPORT WALL MOUNTED CABINETS SHALL HAVE 20 GAUGE METAL STUDS SPACED AS RECOMMENDED BY THE MANUFACTURER. PROVIDE PLYWOOD BACKING OR STEEL STRAPS BETWEEN STUDS IN WALLS TO SUPPORT CABINETS, GRAB BARS AND OTHER EQUIPMENT.
- ALL PARTITIONS TO BE TAPED, SPACKLED AND PAINTED PER FINISH SCHEDULE.
- ELECTRICAL AND SERVICE OUTLETS FOR ADJACENT ROOMS ARE TO BE POSITIONED MINIMUM 24 INCHES APART AND IN SEPARATE STUD SPACES.
- USE 20 GA. DOUBLE METAL STUDS AT ALL DOOR JAMBS IN BOX SHAPED CONFIGURATION
- USE 20 GA. METAL STUDS AT WINDOW JAMBS, SILLS & HEADS
- FRAME DRYWALL PARTITIONS AROUND DUCT, PIPE & STRUCTURAL PENETRATIONS. DO NOT FRAME DRYWALL TO PENETRATIONS. PROVIDE FIRESTOPPING CORRESPONDING TO PARTITION RATING AS REQUIRED.
- ALL TOP AND BOTTOM METAL STUD RUNNERS AT ALL EXTERIOR WALL ARE TO BE SET IN A FULL BED OF SEALANT - TYPICAL
- STAGGER JOINTS WHERE DOUBLE LAYERS OF GWB SHEATHING IS REQUIRED
- CARPENTER TO COORDINATE WET WALL PARTITIONS WITH PLUMBER AND ALLOW FOR FURRING OF PARTITIONS AS REQUIRED FOR PLUMBING
- CARPENTER TO ALLOW FURRING OUT PARTITIONS OR USING WIDER STUDS AS REQUIRED TO INSTALL FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS AND OTHER WALL MOUNTED DEVICES
- INSTALL CEMENTITIOUS BACKER BOARD IN LIEU OF GYPSUM BOARD IN AREAS SCHEDULED TO RECEIVE WALL TILES
- ALL NON-MASONRY EXIT STAIRWAY AND CORRIDORS SHALL COMPLY WITH MASONRY EQUIVALENT EXIT ENCLOSURE REQUIREMENTS. SEE NOTES.

MASONRY EQUIVALENT EXIT ENCLOSURE

- A MASONRY EQUIVALENT EXIT ENCLOSURE CONSTRUCTED AS STUD AND WALL BOARD ASSEMBLY SHALL SATISFY THE FOLLOWING REQUIREMENTS:
- PREScriptive STUD AND WALL BOARD ASSEMBLY. A COMPLIANT WALL ASSEMBLY SHALL BE SUBSTANTIALLY IDENTICAL TO, AND SHALL PROVIDE AN IMPACT RESISTANCE EQUIVALENT TO OR EXCEEDING, THE PERFORMANCE OF ONE (1) OF THE FOLLOWING:
 - MATERIALS. IMPACT RESISTANT WALL BOARD SHEATHED ON THE INTERIOR SURFACE OF THE EXIT ENCLOSURE WALL ASSEMBLY SHALL BE TESTED BY AN APPROVED TESTING AGENCY. THE WALL BOARD USED AS THE INTERIOR FACE PANEL SHALL BE LISTED BY AN APPROVED AGENCY TO ASTM C 1629-06, STANDARD CLASSIFICATION FOR ABUSE-RESISTANT NONDECORATED INTERIOR GYPSUM PANEL PRODUCTS AND FIBER-REINFORCED CEMENT PANELS. IMPACT CLASSIFICATION LEVEL 2, AND THE BASE LAYER PANEL SHALL BE A MINIMUM 1/2 INCH (12.7 MM) GYPSUM WALL BOARD APPLIED TO THE INTERIOR SURFACE OF THE EXIT ENCLOSURE WALL. SHALL NOT REDUCE THE CLEAR WIDTH OF THE EXIT STAIRS BELOW THAT REQUIRED FOR MEANS OF EGRESS BY CHAPTER 10 OF THE BUILDING CODE.
 - ASSEMBLY. THE WALL ASSEMBLY SHALL BE AT LEAST TWO-HOUR FIRE RESISTANCE RATED.
 - INSTALLATION SHALL COMPLY WITH THE FOLLOWING:
 - STUDS SHALL BE MINIMUM 3-1/2 INCH (89 MM) DEPTH COLD-FORMED STEEL FRAMING, AT LEAST 33 MILS THICK (20 GAUGE).
 - VERTICAL STUDS SHALL BE SPACED AT A MAXIMUM DISTANCE OF 24 INCHES (610 MM), ON CENTER.
 - RUNNERS SHALL BE SECURELY ATTACHED AT THE FLOOR AND CEILING TO STRUCTURAL ELEMENT MEMBERS AND SHALL COMPLY WITH THE STRUCTURAL REQUIREMENTS OF THE BUILDING CODE.
 - WALL BOARDS SHALL BE ATTACHED WITH NO. 8 SELF-DRILLING BUGLE-HEAD SCREWS, 12 INCHES (305 MM), ON CENTER MAXIMUM, WITH A MINIMUM DEPTH OF 1/2 INCH (12.7 MM) PENETRATION INTO THE WALL CAVITY.
 - JOINTS BETWEEN ADJOINING SHEETS OF WALL BOARD SHALL BE STAGGERED FROM BASE LAYER WITH FACE PANEL LAYER.

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 Buildings
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 Under Directive 2 of 1975
 Date: 03/05/2021
 ITEM: NYC Development Hub

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11/25/2020	DOB SUBMISSION
10/22/2020	DOB SUBMISSION

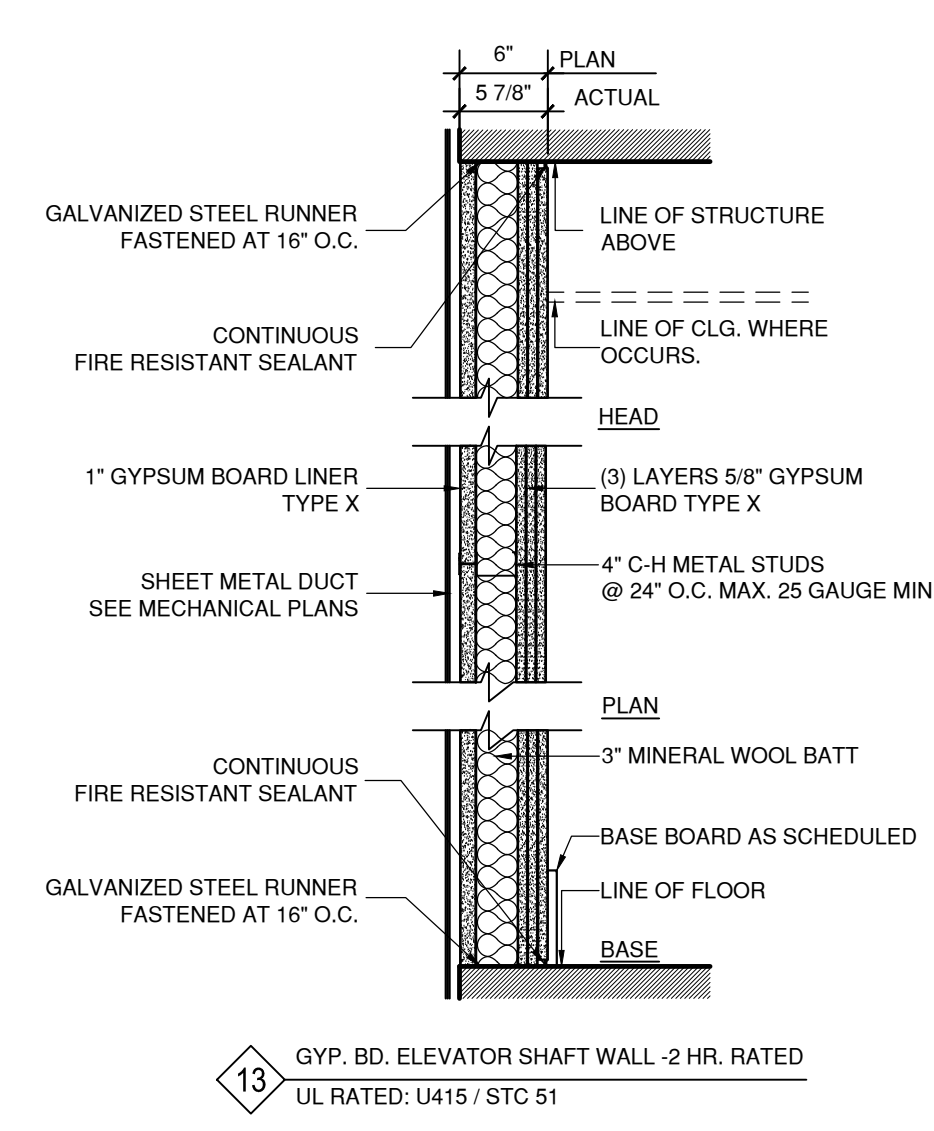
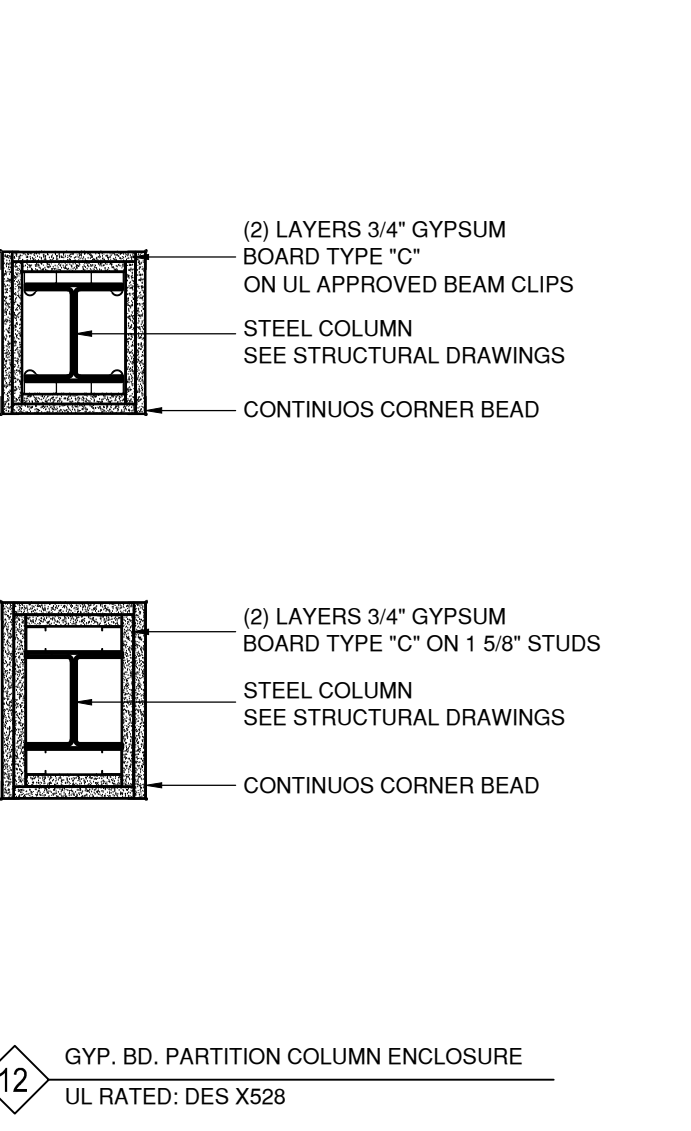
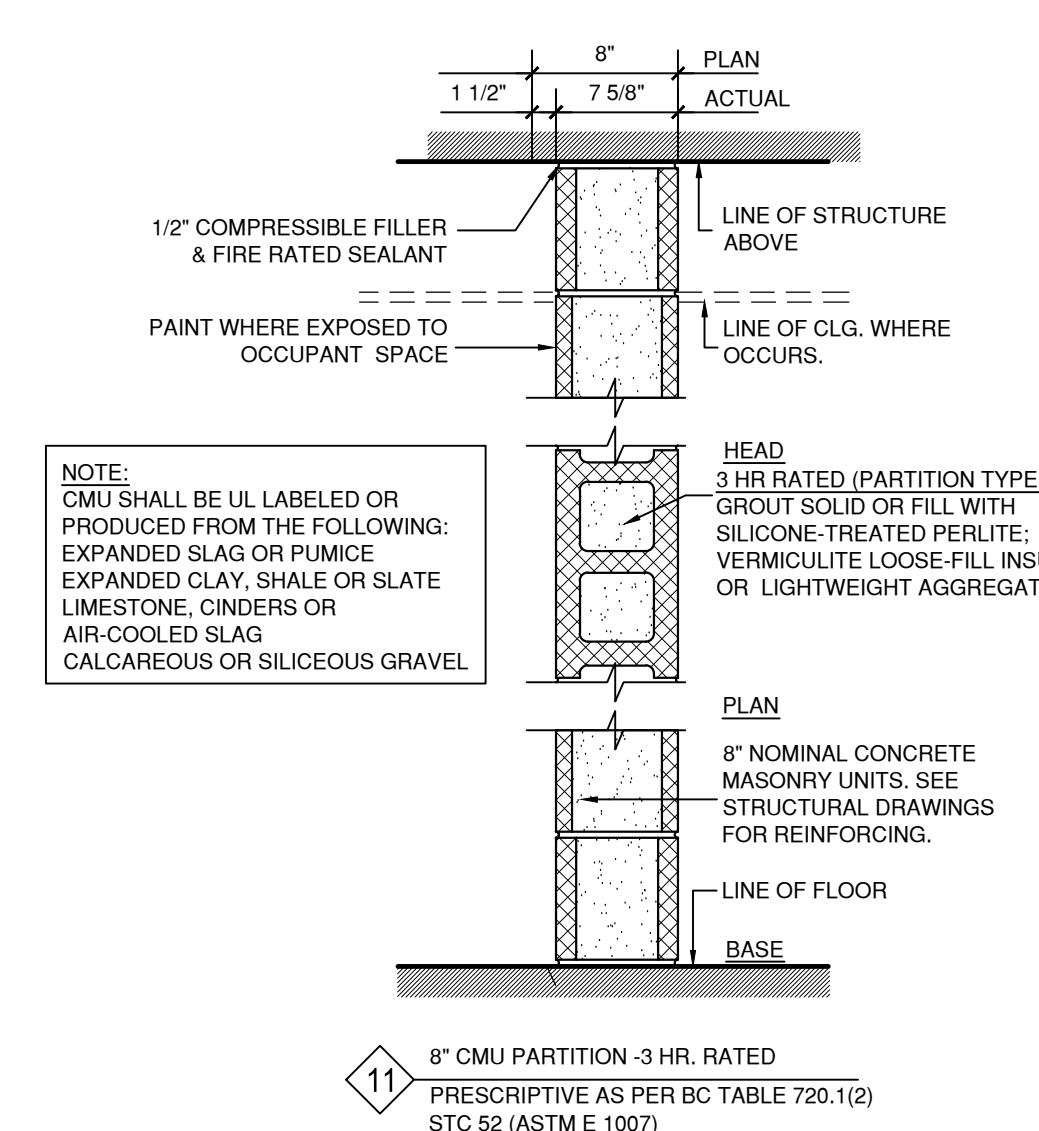
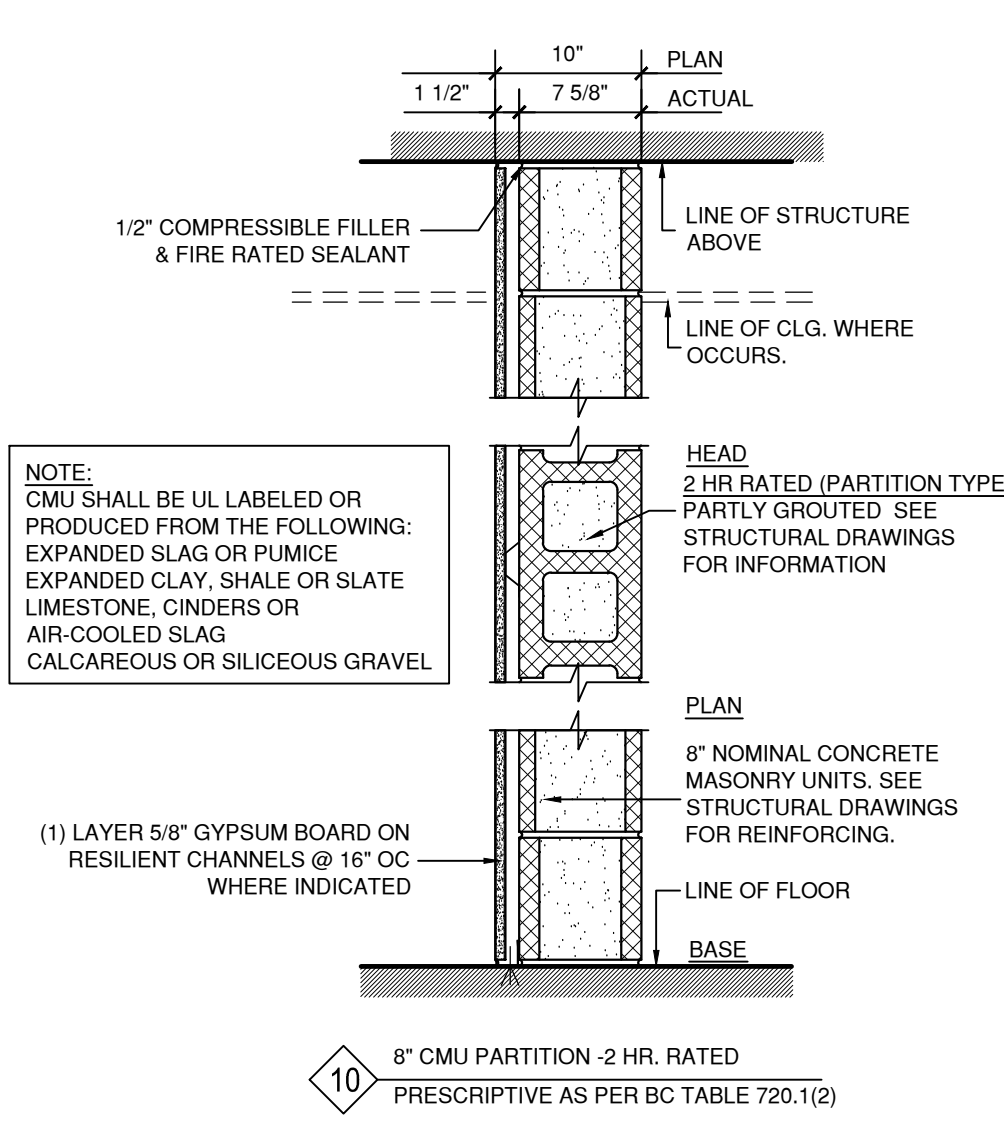
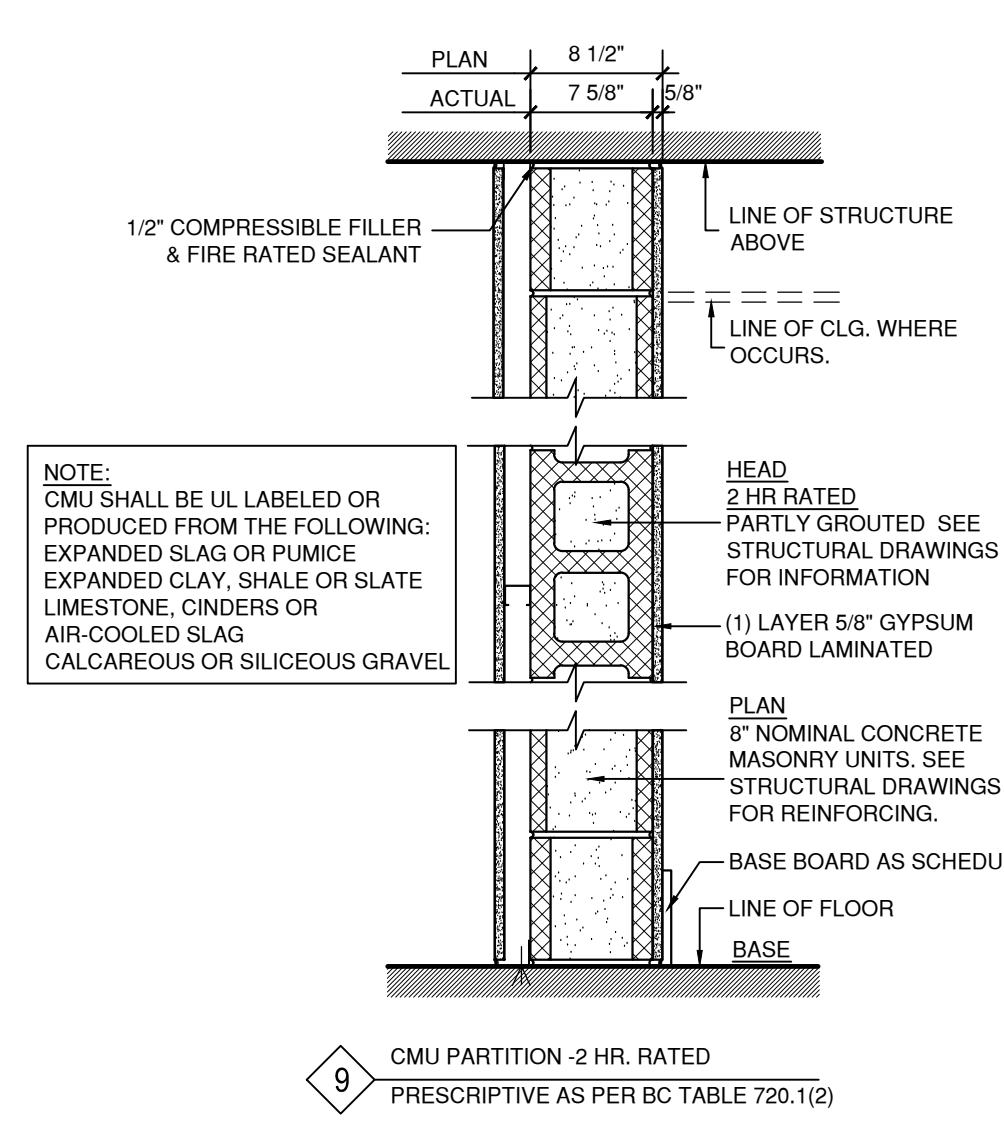
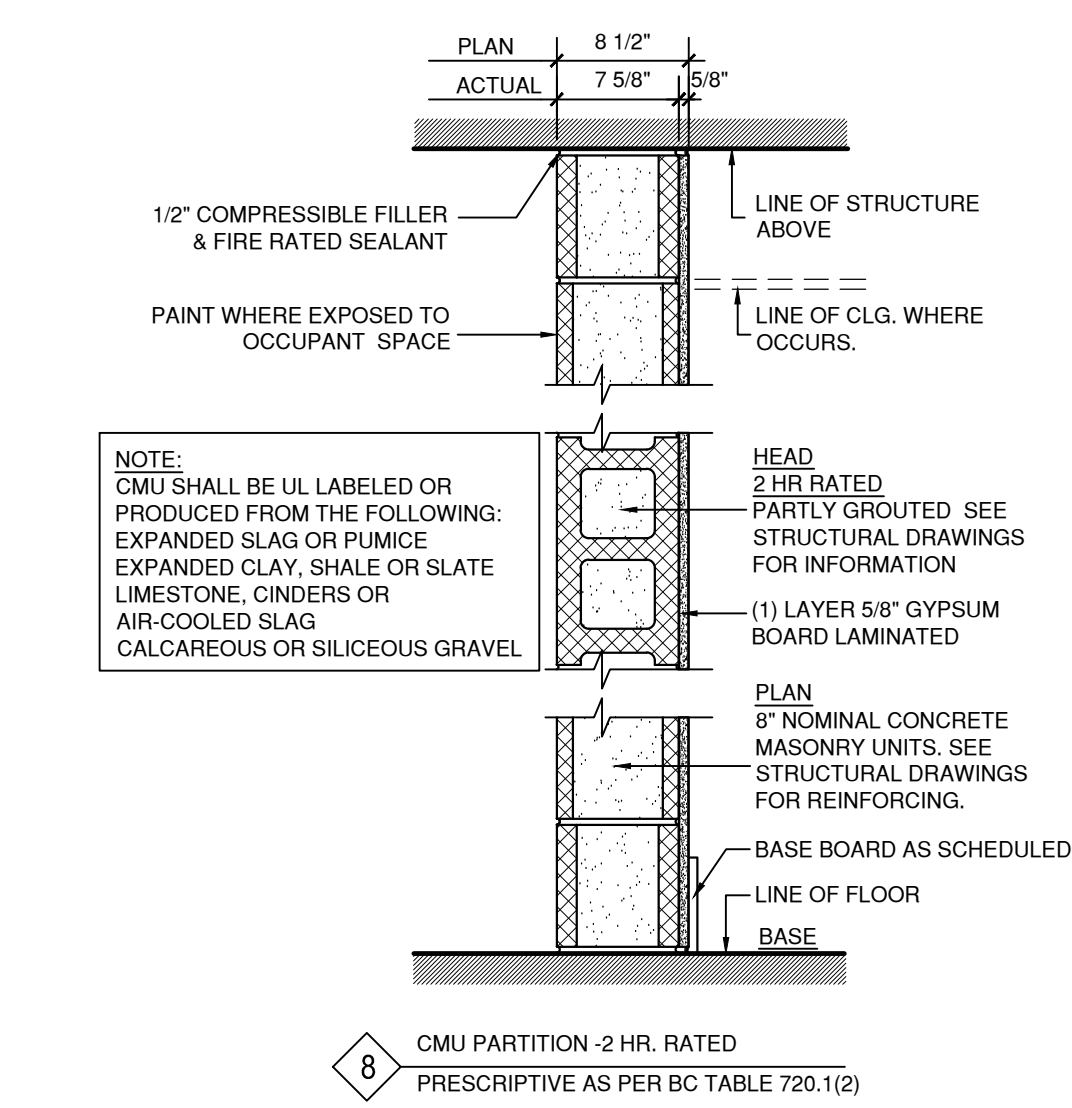
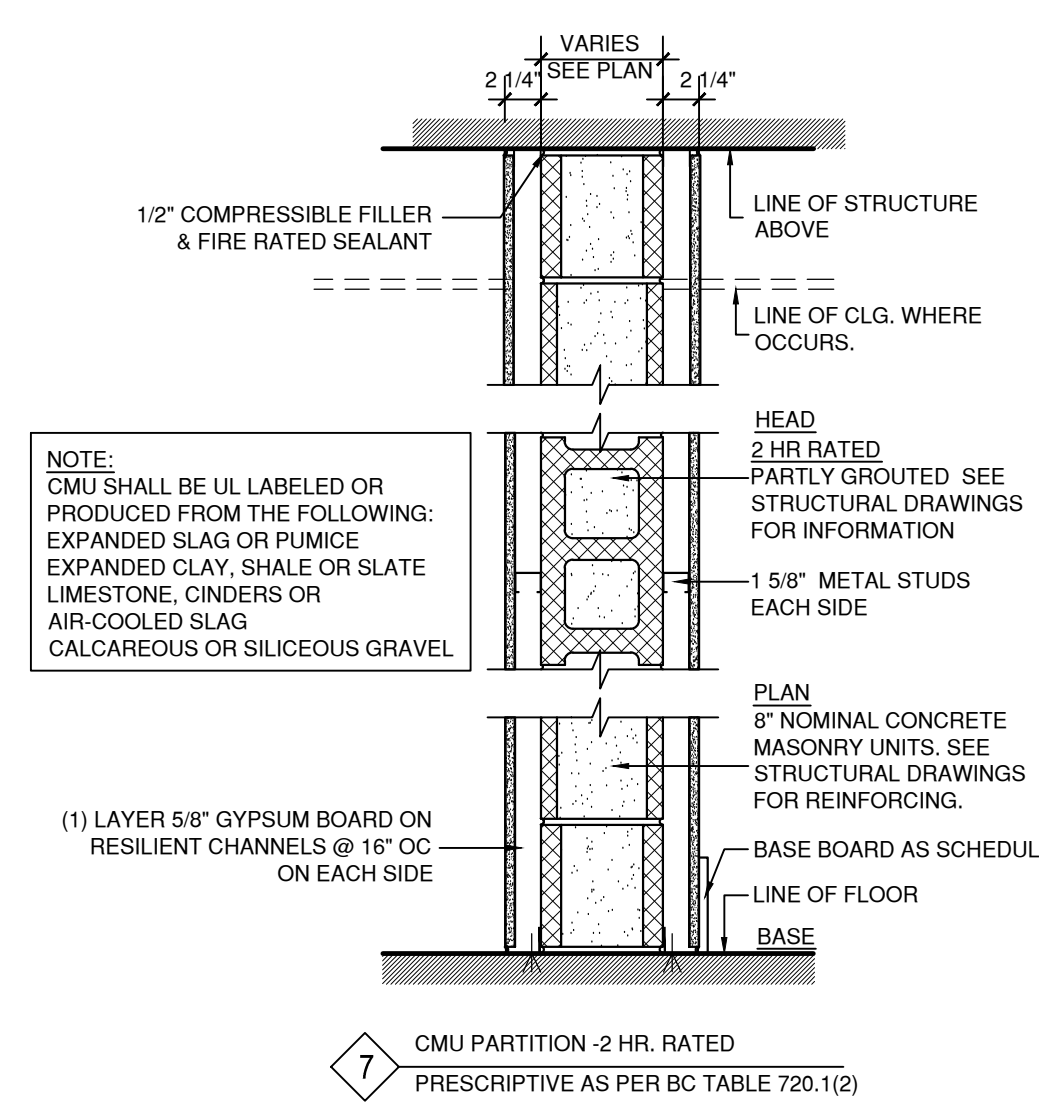
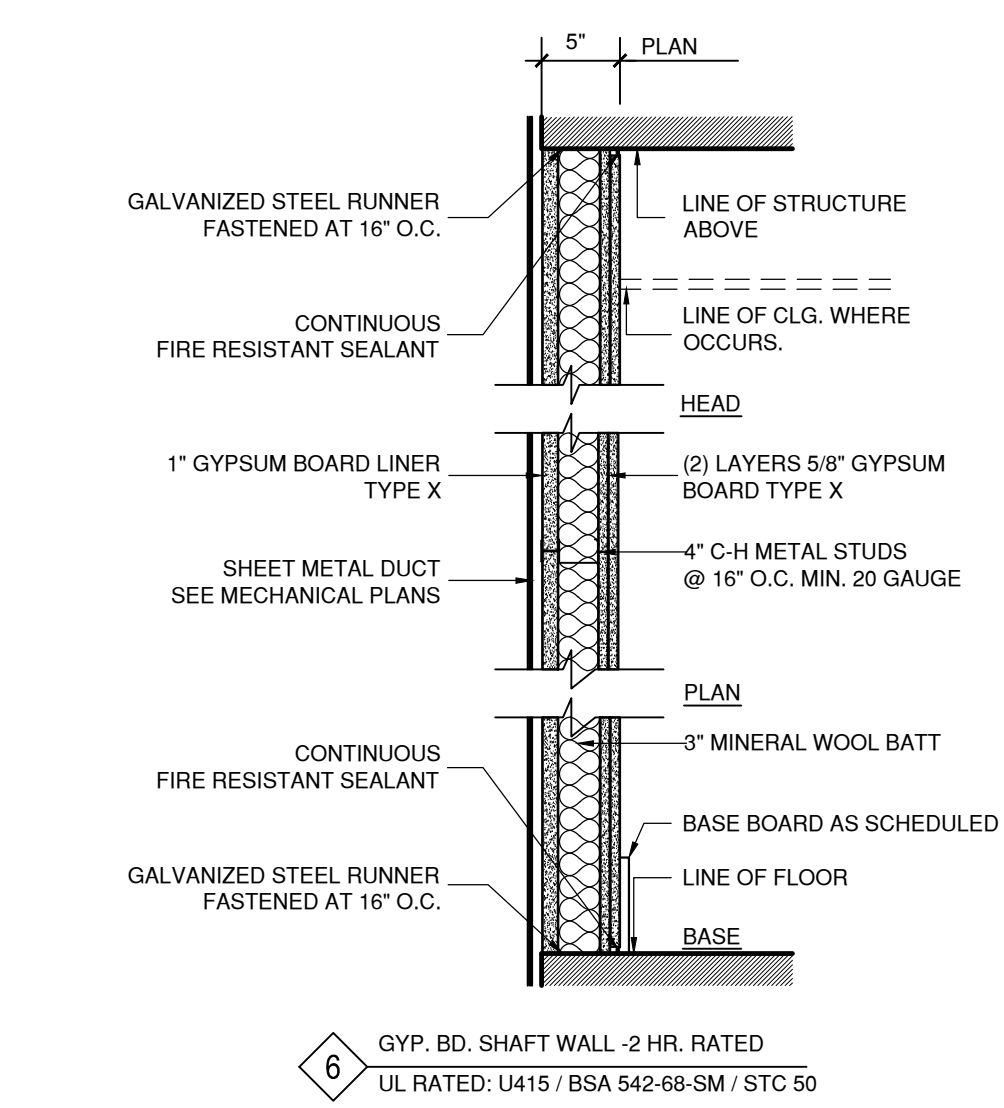
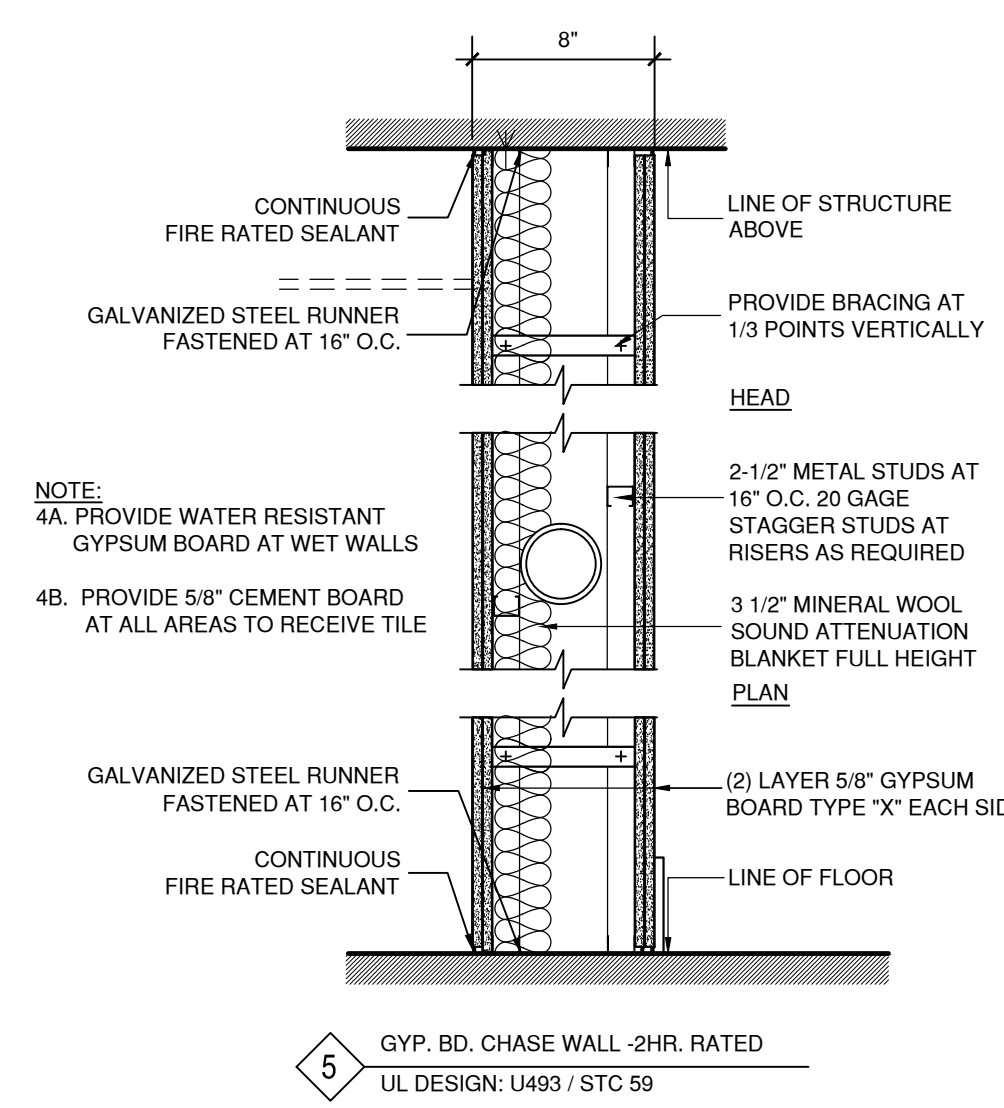
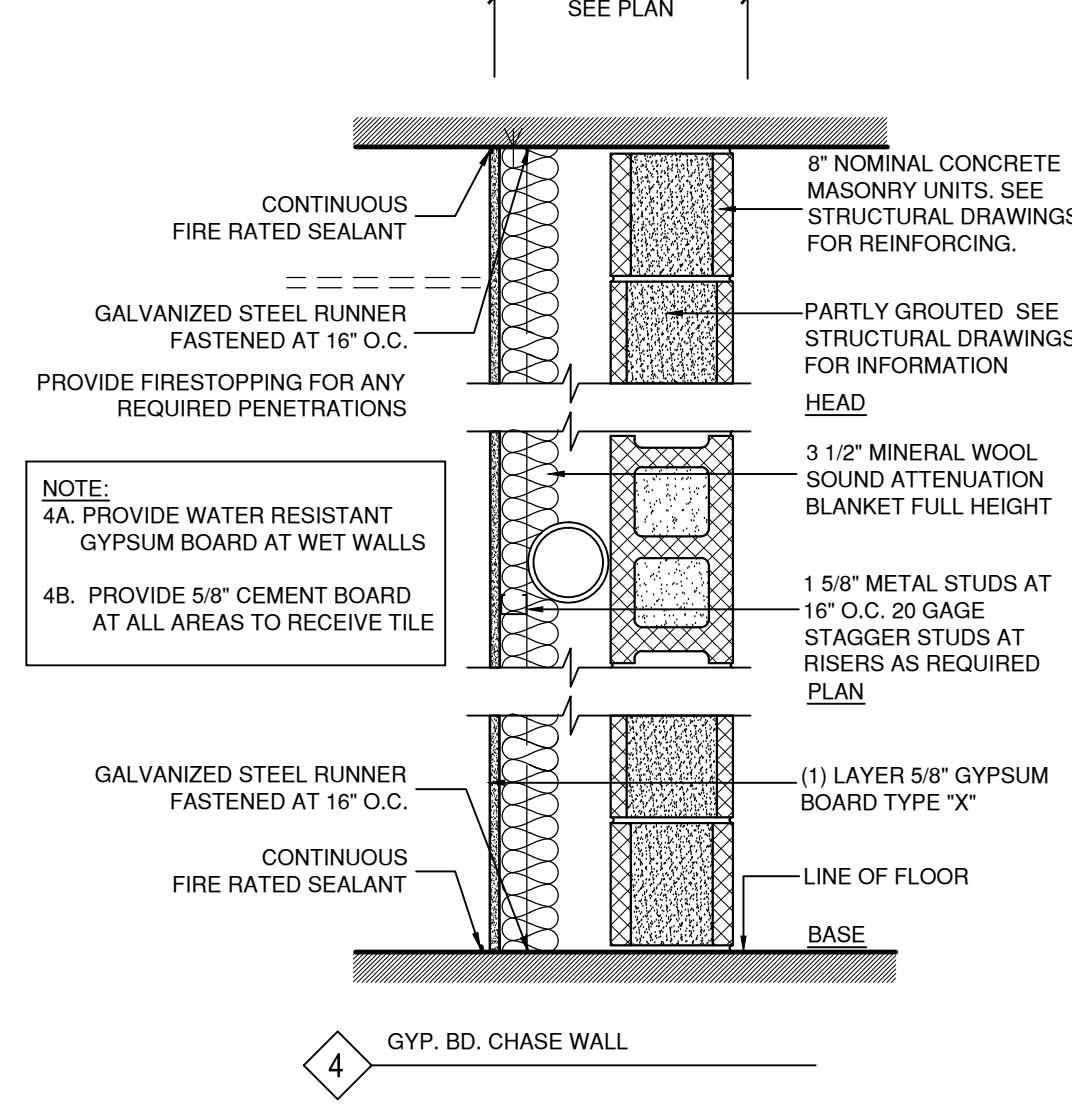
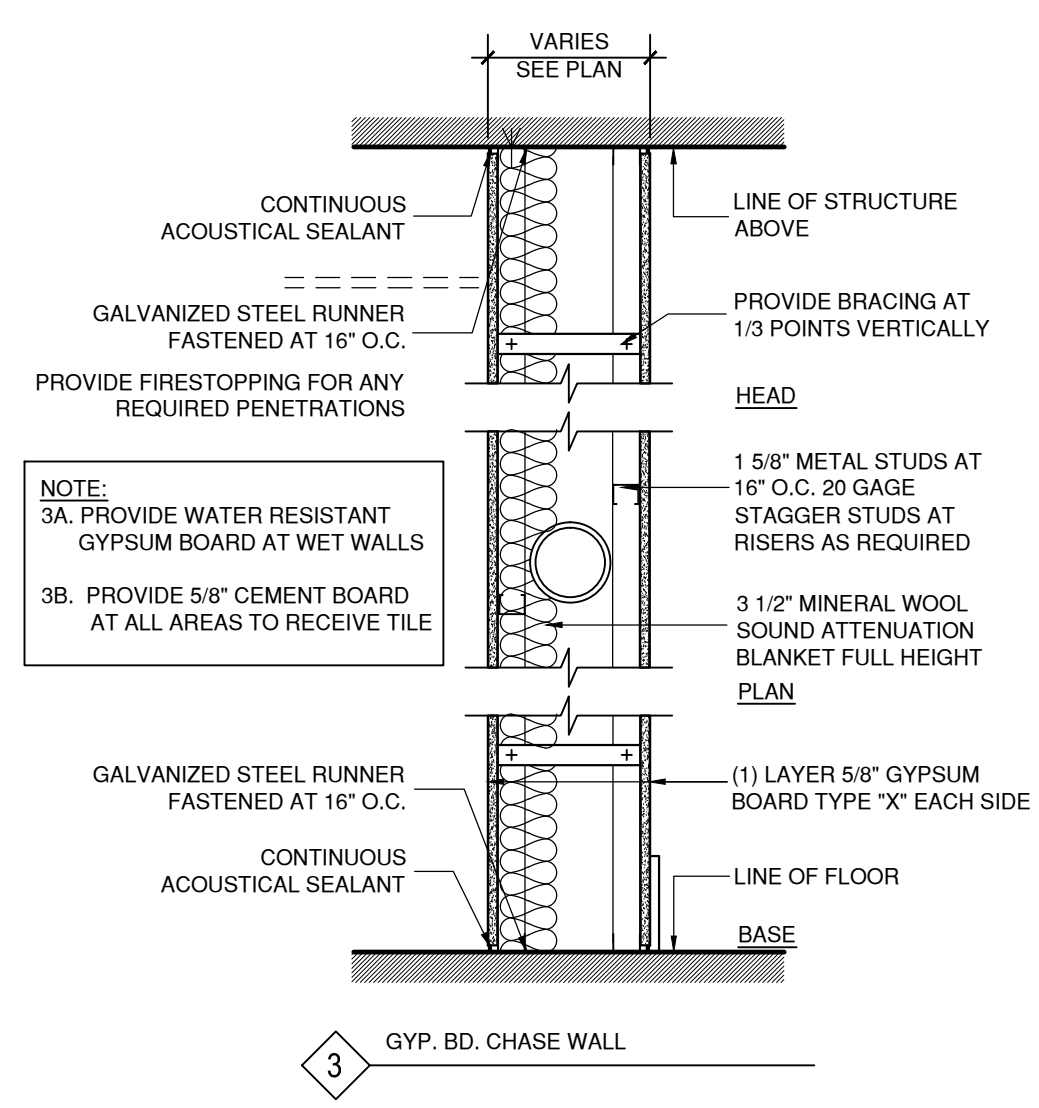
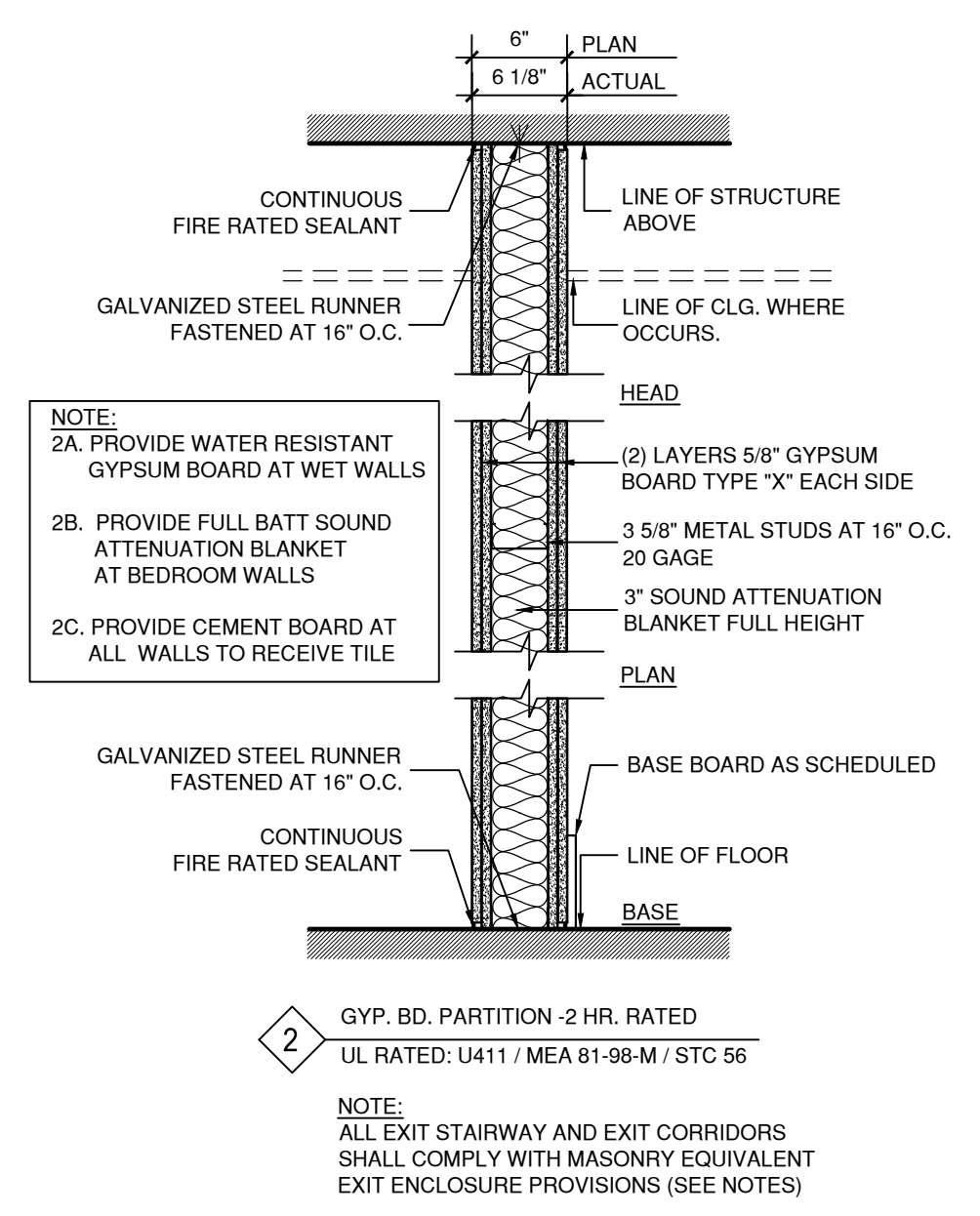
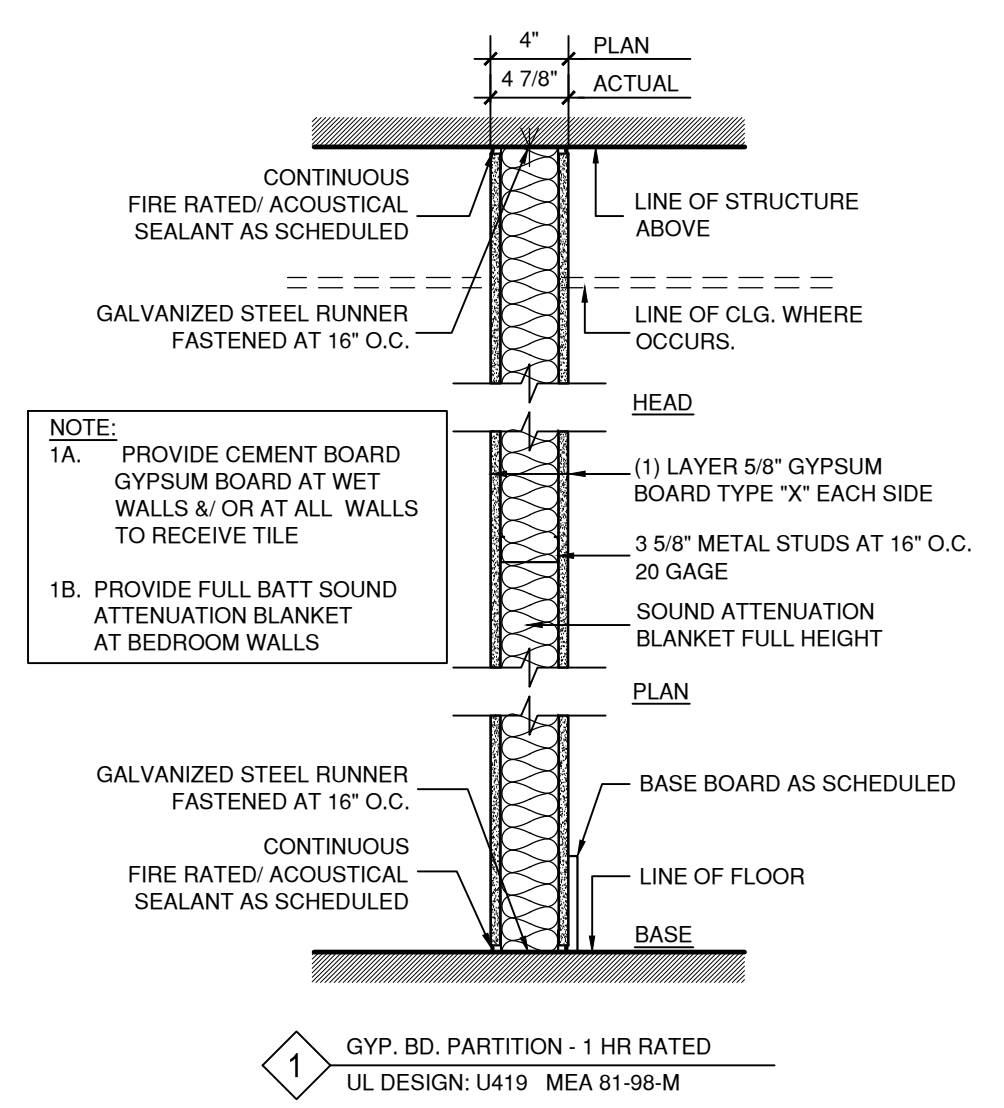
PROJECT
 32 EAST 29TH STREET
 BROOKLYN, NY 11226

DRAWING TITLE
PARTITION TYPES & NOTES

PROJECT NO: SEAL & SIGNATURE
 DRAWN BY:
 CHECKED BY:
 PAGE NO. 22 OF 33
 DRAWING NO.
A-500.00

D.O.B. #

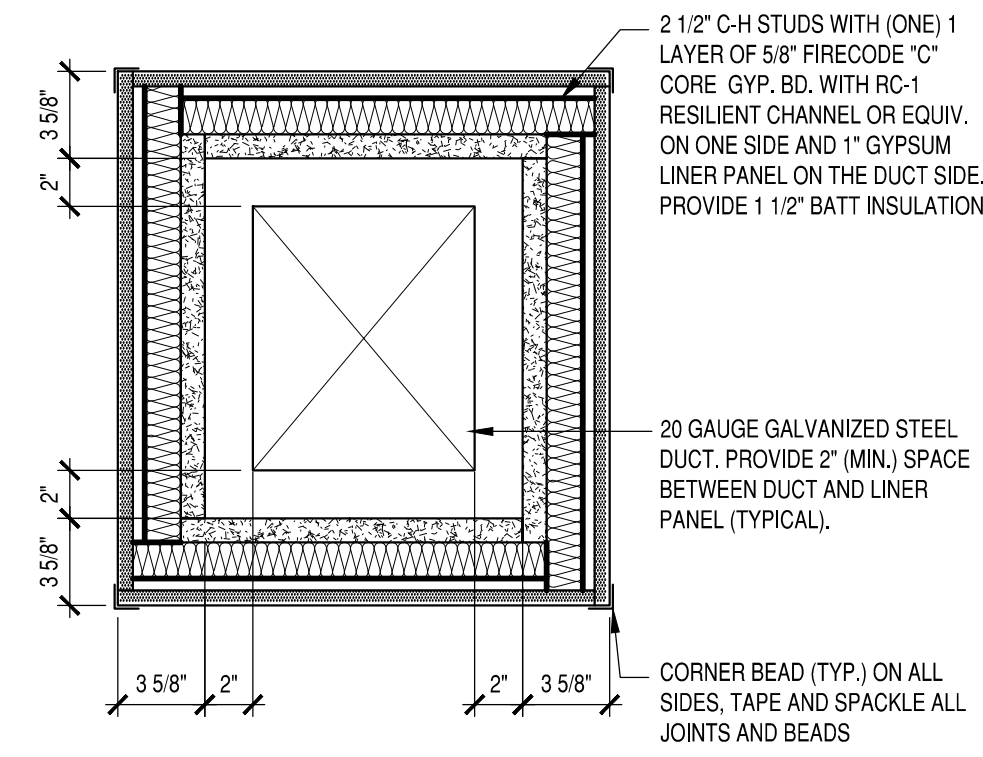
REGISTERED ARCHITECT
 ROBERT BIANCHI
 33616
 STATE OF NEW YORK



FLOOR / CEILING ASSEMBLY NOTES (UL DESIGN No. G577):

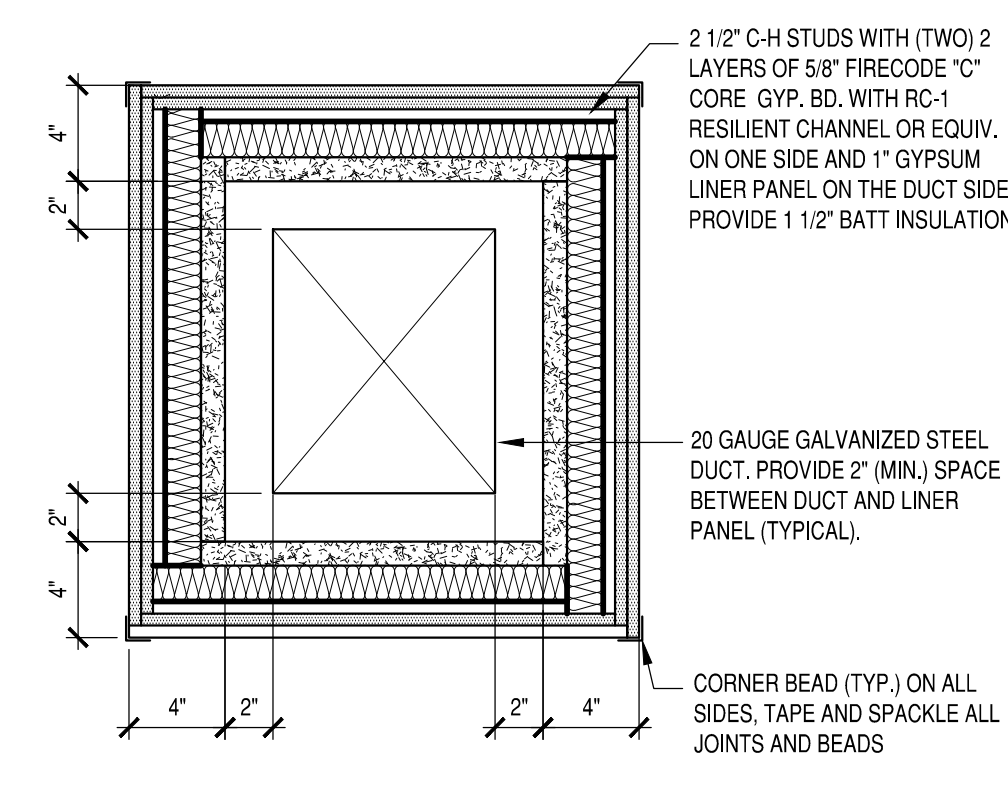
- STEEL DECK -- MIN 9/16 IN. DEEP, 22 MSG GALV CORRUGATED FLUTED STEEL DECK, ATTACHED TO EACH JOIST WITH #10 3/4 IN. LONG SCREWS AT EACH SIDE JOINT AND NO MORE THAN 10 IN. OC BETWEEN SIDES.
- FLOOR TOPPING MIXTURE* -- COMPRESSIVE STRENGTH TO BE 3000 PSI MIN. MINIMUM THICKNESS TO BE 1 IN. AS MEASURED FROM THE TOP PLANE OF THE DECK. REFER TO MANUFACTURER'S INSTRUCTIONS ACCOMPANYING THE MATERIAL FOR SPECIFIC MIX DESIGN. A PRIMER PROVIDED BY THE FLOOR-TOPPING MANUFACTURER SHALL BE APPLIED TO THE STEEL DECK PRIOR TO THE INSTALLATION OF THE FLOOR TOPPING MIXTURE AT A MAXIMUM APPLICATION RATE OF 300 FT²/GALLON.
- ALLIED CUSTOM GYPSUM -- ACCU-CRETE, ACCURADIANT, ACCULEVEL G40 AND ACCULEVEL SD30.
- FLOOR MAT MATERIAL* -- (OPTIONAL) -- NOT SHOWN -- LOOSE LAID OVER THE CRESTS OF THE STEEL DECK. FLUTES OF THE STEEL DECK TO BE FILLED WITH FLOOR TOPPING MIXTURE* PRIOR TO APPLICATION OF THE FLOOR MAT MATERIALS*.
- ALLIED CUSTOM GYPSUM -- TYPE ACCUQUIET P80, TYPE ACCUQUIET C40, ACCUQUIET D13, TYPE ACCUQUIET D-18.
- STRUCTURAL STEEL MEMBERS* -- JOISTRITE CHANNEL-SHAPED JOISTS, MIN 9-1/4 IN. DEEP WITH MIN 2 IN. WIDE FLANGES AND 3/4 IN. LONG STIFFENING FLANGES. THE WEB OF EACH JOIST IS PROVIDED WITH 3/4 IN. DEEP LIP-REINFORCED TRAPEZOIDAL CUTOUTS AS SHOWN IN THE ILLUSTRATION. JOISTRITE RIM TRACK, MIN 9-3/8 IN. DEEP WITH MIN 1-1/2 IN. TOP FLANGE AND MIN 2-5/16 IN. BOTTOM FLANGE. THE JOISTS AND RIM TRACKS ARE FABRICATED FROM MIN 16 MSG GALV STEEL. JOISTS SPACED MAX 24 IN. OC. FLOOR JOISTS ATTACHED TO RIM TRACK USING CHANNEL-SHAPED STEEL WEB STIFFENERS. AT RIM TRACK SPLICES BEARING ON SUPPORTS, RIM TRACKS ARE CONNECTED USING AN OVERLAPPING SECTION OF A 12 IN. LONG SPLICE PLATE, WITH FOUR 3/4 IN. LONG SELF-DRILLING #10 SCREWS TO EACH RIM PIECE.
- MARINOWARE, DIV OF WARE INDUSTRIES INC -- TYPE JR JOISTRITE FLOOR JOISTS, TYPE JT JOISTRITE RIM TRACK.
- BLOCKING & BRIDGING -- INSTALLED BEFORE CONSTRUCTION LOADS ARE APPLIED. THE BLOCKING CONSISTS OF JOISTRITE SOLID BLOCKING PLACED BETWEEN EACH JOIST. BLOCKING ATTACHED TO THE TOP AND BOTTOM JOIST FLANGES WITH ONE #10 3/4 IN. LONG SELF-DRILLING SCREW AT EACH END TAB OF BLOCKING. BLOCKING IS FABRICATED FROM MIN 18 MSG GALV STEEL, MIN 1-15/16 IN. FLANGES, HAVING THE SAME DEPTH AS THE JOISTS. IN ADDITION, BRIDGING CONSISTS OF 1/2 IN. BY 1-1/2 IN. COLD-ROLLED CHANNEL, MIN NO. 16 GA, ATTACHED TO THE BOTTOM FLANGES OF THE JOISTS AND BLOCKING. COLD-ROLLED CHANNEL ATTACHED TO EACH BLOCKING BOTTOM FLANGE W FOUR #10 3/4 IN. LONG SELF-DRILLING SCREWS AND TO JOIST BOTTOM FLANGE WITH TWO SCREWS.
- WEB STIFFENERS -- NOT SHOWN -- JOISTRITE WEB STIFFENERS, MIN 3-5/8 IN. WIDE WITH MIN 9/16 IN. FLANGE AND MIN 1-1/4 IN. FLANGE, HAVING THE SAME DEPTH AS THE JOISTS. FABRICATED FROM MIN 16 MSG GALV STEEL. SECURED TO EACH JOIST AND TRACK WITH #10 3/4 IN. LONG SELF-DRILLING SCREWS.
- RESILIENT CHANNELS -- 1/2 IN. DEEP, FORMED OF MIN 26 MSG GALV STEEL, SPACED 12 IN. OC PERPENDICULAR TO JOISTS. CHANNEL SPLICES OVERLAPPED 6 IN. BENEATH STEEL JOISTS. CHANNELS SECURED TO EACH JOIST WITH ONE #10 3/4 IN. LONG SELF-DRILLING SCREW. CHANNELS ORIENTED OPPOSITE AT WALLBOARD BUTT JOINTS (SPACED 6 IN. OC) AS SHOWN IN THE ABOVE ILLUSTRATION.
- GYPSUM BOARD* -- NOM 5/8 IN. THICK, 48 IN. WIDE GYPSUM PANELS INSTALLED WITH LONG DIMENSION PERPENDICULAR TO RESILIENT CHANNELS. SIDE JOINTS CENTERED BETWEEN JOISTS. GYPSUM PANELS SECURED WITH 1 IN. LONG TYPE S BUGLE-HEAD SCREWS SPACED 8 IN. OC IN BOTH THE FIELD AND THE PERIMETER, AND 1 IN. FROM SIDE EDGES OF THE BOARD.
- NATIONAL GYPSUM CO -- TYPE FSW-C.
- BATTS AND BLANKETS* -- GLASS FIBER INSULATION, MIN 3-1/2 IN. THICK, BEARING THE UL CLASSIFICATION MARKING FOR SURFACE BURNING CHARACTERISTICS AND/OR FIRE RESISTANCE. INSULATION FITTED IN THE CONCEALED SPACE, DRAPED OVER THE RESILIENT CHANNEL/GYPSUM PANEL CEILING MEMBRANE. SEE BATTS AND BLANKETS (BKNV OR BZJ) CATEGORIES FOR NAMES OF CLASSIFIED COMPANIES.
- JOINT SYSTEM -- NOT SHOWN -- VINYL DRY OR PREMIXED JOINT COMPOUND, APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS; PAPER TAPE, 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.

NOTE:
AS PER DOB CODE SECTION RS13-1.3.3.3; ALL DUCTS HAVING CROSS-SECTIONAL AREA OF 2 SF. OR LESS ARE TO HAVE A 1 HR FIRE-RATED ENCLOSURE. ALL OTHER DUCT ENCLOSURES ARE TO BE 2 HR FIRE-RATED.



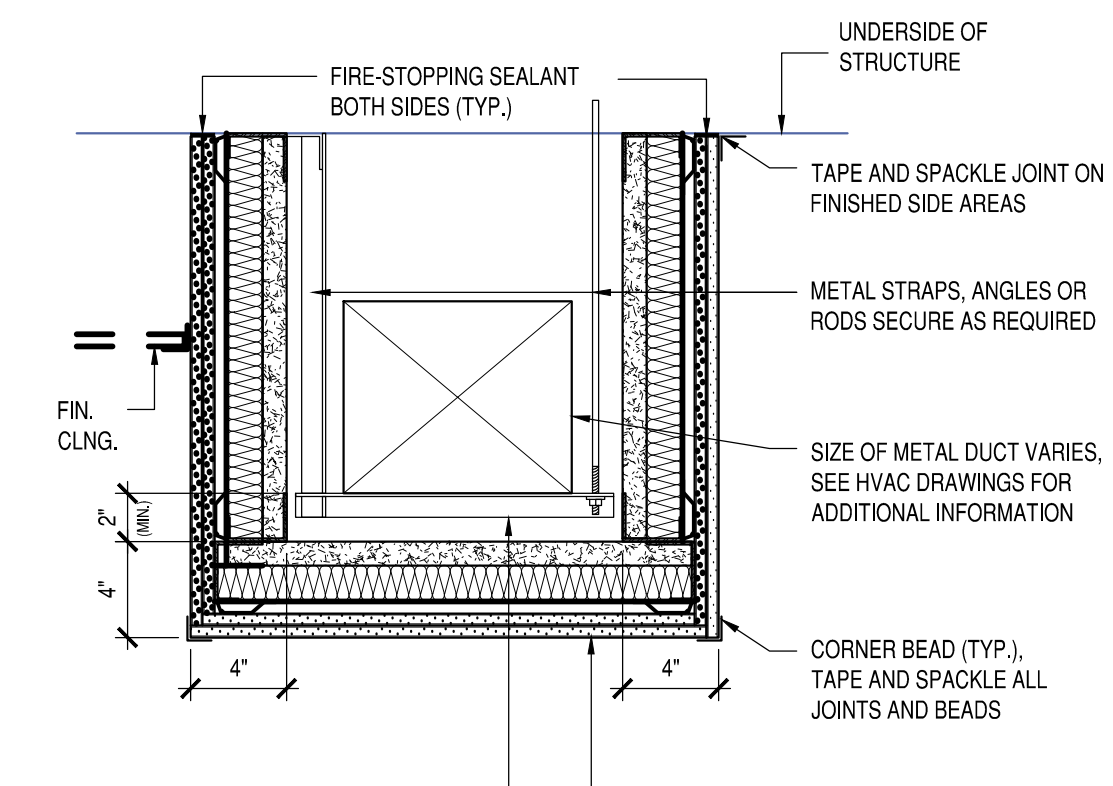
8 1 HR RISER ENCLOSURE
Scale: 1 1/2"=1'-0"

NOTE:
ALL GYPSUM BOARD SHALL BE INSTALLED AS PER NEW YORK CITY CODE MEA, BSA OR GA SPECIFICATIONS.

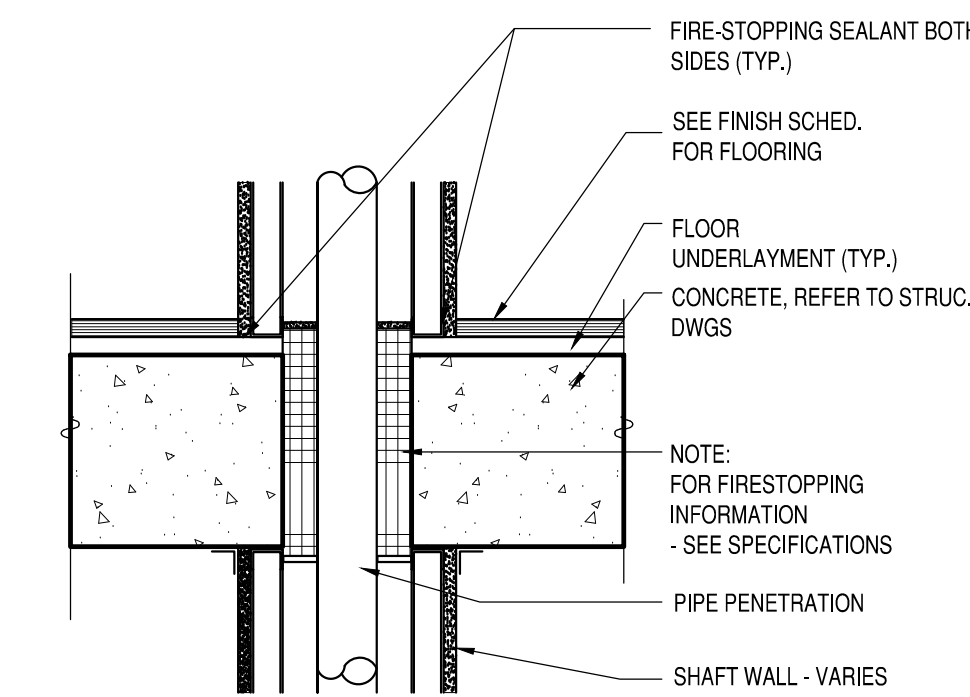


7 2 HR RISER ENCLOSURE
Scale: 1 1/2"=1'-0"

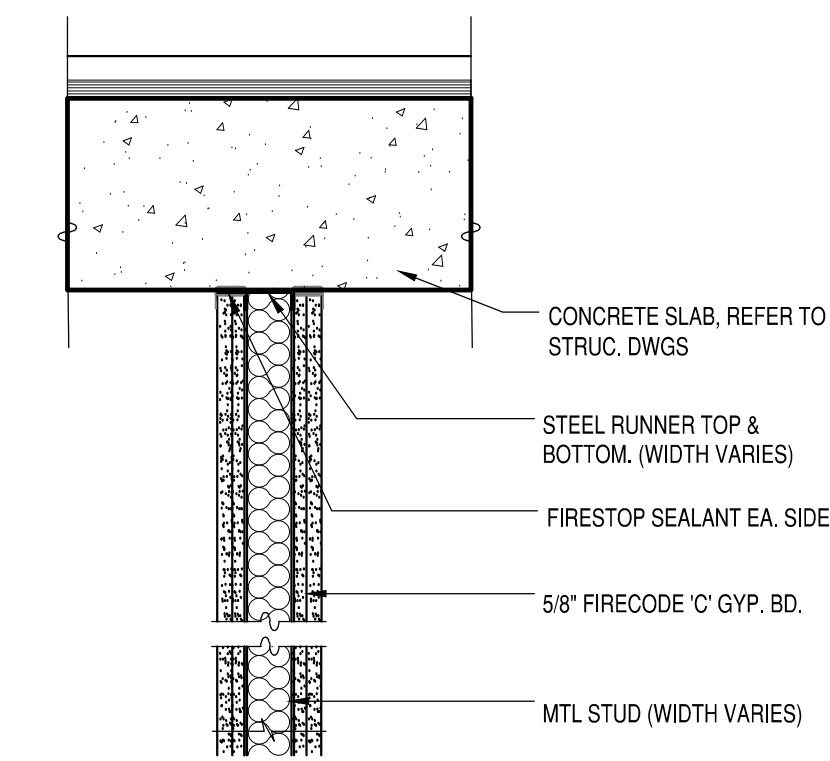
NOTE:
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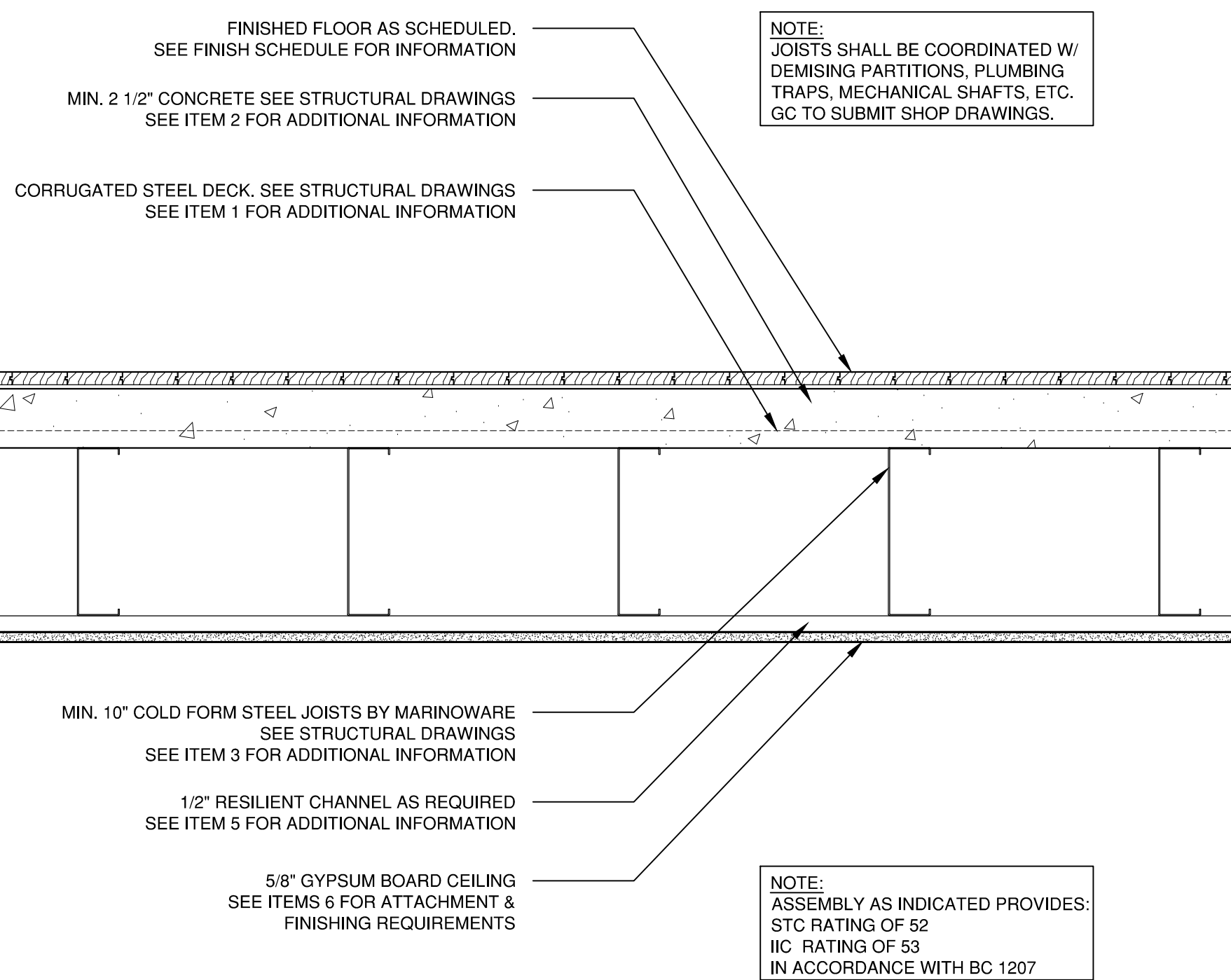
6 2 HR HUNG ENCLURE
Scale: 1 1/2"=1'-0"



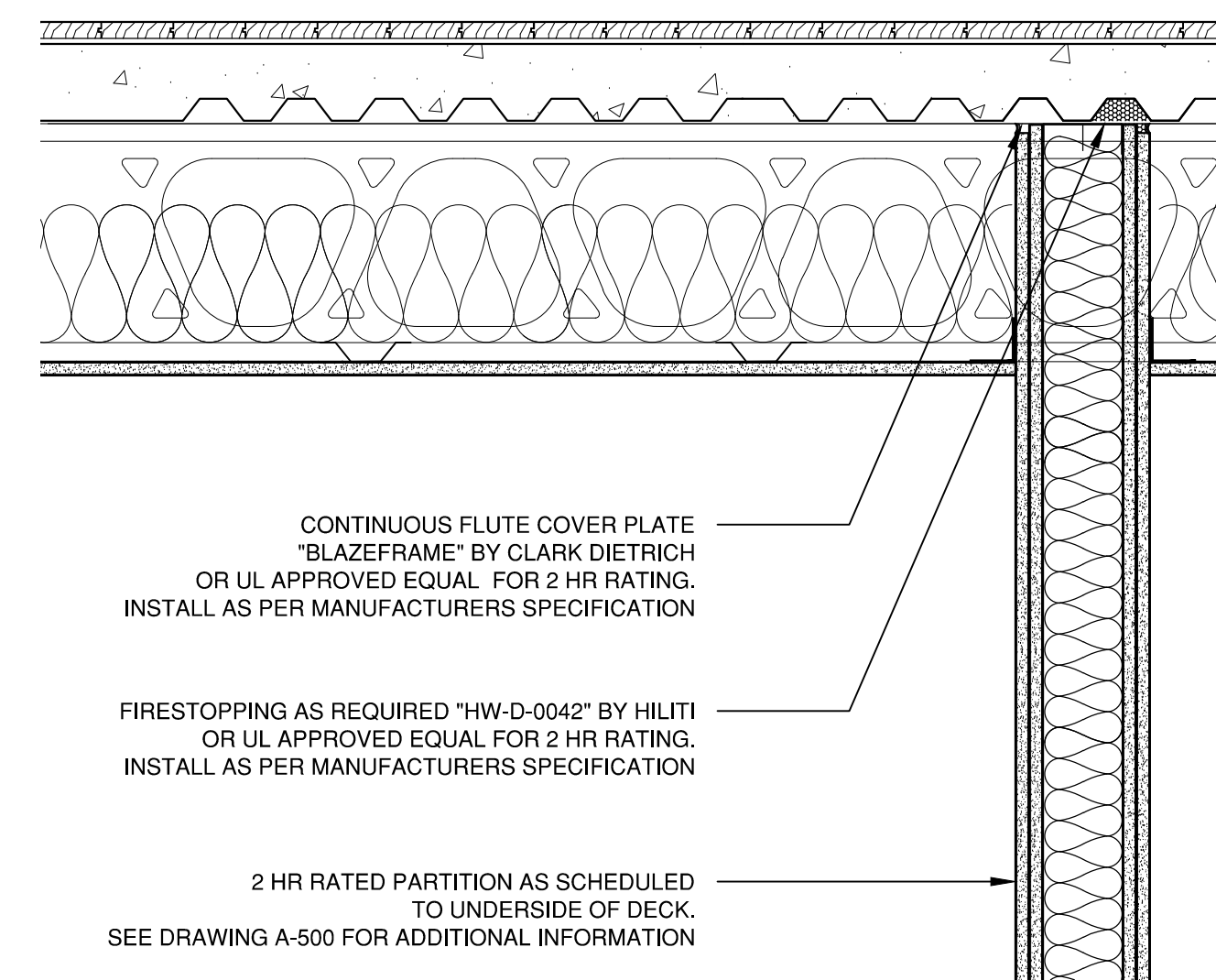
5 FIRE STOPPING @ FLOOR
Scale: 1 1/2"=1'-0"



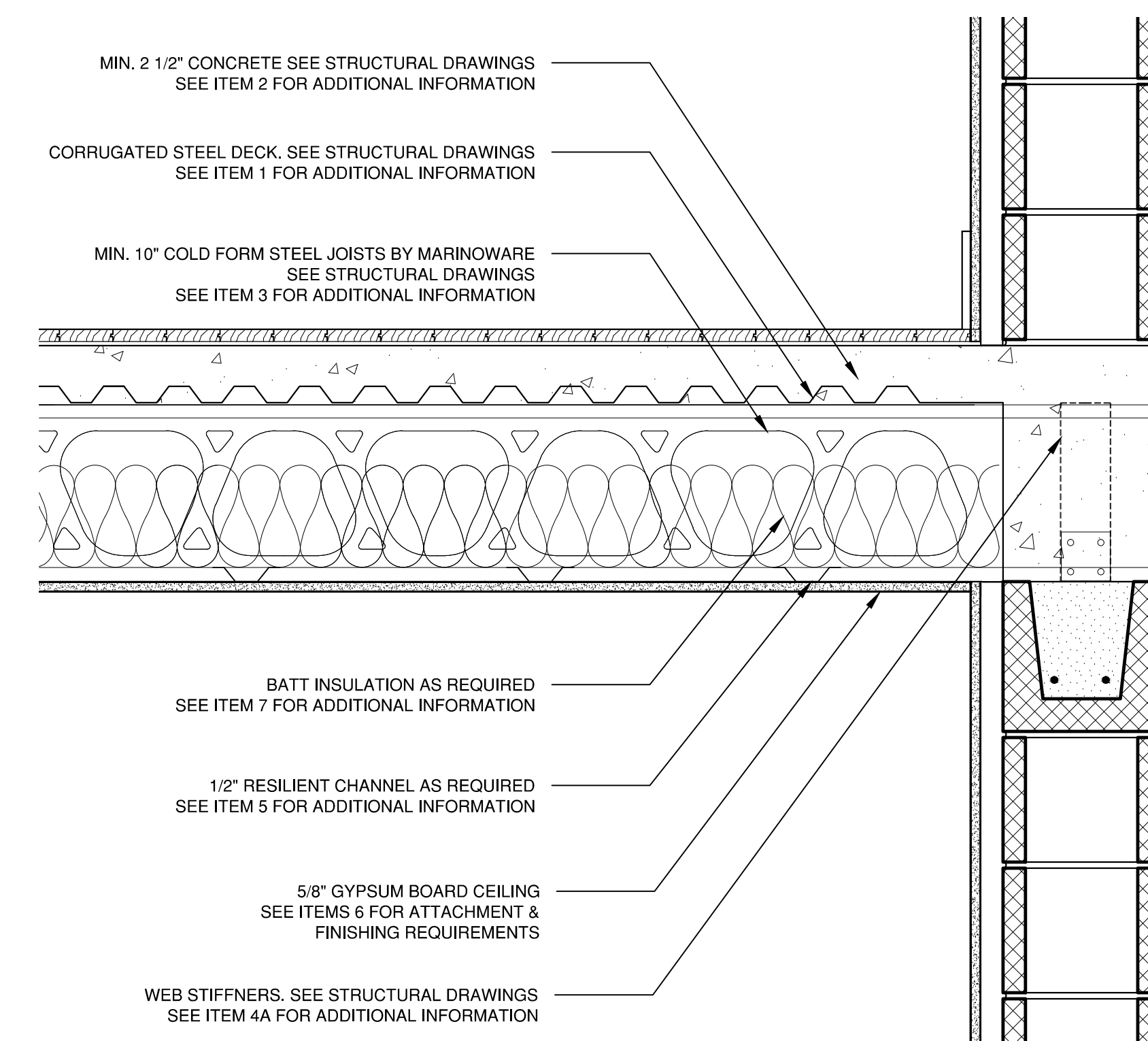
4 FIRE STOPPING @ PARTITIONS
Scale: 1 1/2"=1'-0"



3 FLOOR/CEILING & FIRE DIVISION DETAIL
Scale: 1 - 1/2"=1'-0"



2 FLOOR/CEILING & FIRE DIVISION DETAIL
Scale: 1 - 1/2"=1'-0"



1 FLOOR/CEILING & FIRE DIVISION DETAIL
Scale: 1 - 1/2"=1'-0"

PROJECT
32
32 EAST 29TH STREET
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APPROVED
Under Directive 2 of 1975
Date: 03/05/2021
NYC Development Hub

03/05/2020	DOB SUBMISSION
11/25/2020	DOB SUBMISSION
10/22/2020	DOB SUBMISSION

PROJECT
32 EAST 29TH STREET
BROOKLYN, NY 11226

DRAWING TITLE
**FLOOR/ CEILING DETAILS
& FIRE STOP DETAILS**

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PAGE NO. 23 OF 33
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2406.1 Human impact loads. Individual glazed areas, including glass mirrors, in hazardous locations as defined in Section 2406.4 shall comply with Sections 2406.1.1 through 2406.1.4.

2406.1.1 Impact test. Except as provided in Sections 2406.1.2 through 2406.1.4, all glazing shall pass the impact test requirements Section 2406.2.

2406.1.2 Plastic glazing. Plastic glazing shall meet the weathering requirements of ANSI Z97.1.

2406.1.3 Glass block. Glass-block walls shall comply with Section 2101.2.5.

2406.1.4 Louvered windows and jalousies. Louvered windows and jalousies shall comply with Section 2403.5.

2406.2 Impact test. Where required by other sections of this code, glazing shall be tested in accordance with CPSC 16 CFR 1201. Glazing shall comply with the test criteria for Category I or II as indicated in Table 2406.2(1).

Exception: Glazing not being used for doors or enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers shall be permitted to be tested in accordance with ANSI Z97.1. Glazing shall comply with the test criteria for Class A or B as indicated in Table 2406.2(2).

2406.3 Identification of safety glazing. Except as indicated in Section 2406.3.1, each pane of safety glazing installed in hazardous locations shall be identified by a label specifying the labeler, whether the manufacturer or installer, and the safety glazing standard with which it complies, as well as the information specified in Section 2403.1. A label as defined in Section 202 and meeting the requirements of this section shall be permitted in lieu of the manufacturer's designation.

Exceptions:

- For other than tempered glass, labels are not required, provided the department approves the use of a certificate, affidavit or other evidence confirming compliance with this code.

2406.4 Hazardous locations. The following shall be considered specific hazardous locations requiring safety glazing materials:

- Glazing in swinging doors except jalousies (see Section 2406.4.1).
- Glazing in fixed and sliding panels of sliding door assemblies and panels in sliding and bi-fold closet door assemblies.
- Glazing in storm doors.
- Glazing in unframed swinging doors.
- Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers.

Glazing in any portion of a building wall enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) above a standing surface.

- Glazing in an individual fixed or operable panel adjacent to a door where the nearest exposed edge of the glazing is within a 24-inch (610 mm) arc of either vertical edge of the door in a closed position and where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) above the walking surface.

Exceptions:

- Panels where there is an intervening wall or other permanent barrier between the door and glazing.
- Where access through the door is to a closet or storage area 3 feet (914 mm) or less in depth.

Glazing in this application shall comply with Section 2406.4, Item 7.

- Glazing in walls perpendicular to the plane of the door in a closed position, other than the wall towards which the door swings when opened in one- and two-family dwellings or within dwelling units in Group R-2.

- Glazing in an individual fixed or operable panel, other than in those locations described in preceding items 5 and 6, which meets all of the following conditions:
 - Exposed area of an individual panel greater than 9 square feet (0.84 m²).
 - Exposed bottom edge less than 18 inches (457 mm) above the floor.
 - Exposed top edge greater than 36 inches (914 mm) above the floor; and
 - One or more walking surface(s) within 36 inches (914 mm) horizontally of the plane of the glazing.
 Exception: Safety glazing for Item 7 is not required for the following installations:
 - A horizontal protective bar 1 1/2 inches (38 mm) or more in height, capable of withstanding a horizontal load of 50 pounds (730 N/m) without contacting the glass, is installed on the accessible sides of the glazing 34 inches to 38 inches (864 mm to 965 mm) above the floor.
 - The outboard pane in insulating glass units or multiple glazing where the bottom exposed edge of the glass is 25 feet (7620 mm) or more above any grade, roof, walking surface or other horizontal or sloped (within 45 degrees of horizontal) (0.78 rad) surface adjacent to the glass exterior.
- Glazing in guards and railings, including structural baluster panels and nonstructural in-fill panels, regardless of area or height above a walking surface.
- Glazing in walls and fences enclosing indoor and outdoor swimming pools, hot tubs and spas where all of the following conditions are present:
 - The bottom edge of the glazing on the pool or spa side is less than 60 inches (1524 mm) above a walking surface on the pool or spa side of the glazing; and
 - The glazing is within 60 inches (1524 mm) horizontally of the water's edge of a swimming pool or spa.
- Glazing adjacent to stairways, landings and ramps within 36 inches (914 mm) horizontally of a walking surface, when the exposed surface of the glass is less than 60 inches (1524 mm) above the plane of the adjacent walking surface.
- Glazing adjacent to stairways within 60 inches (1524 mm) horizontally of the bottom tread of a stairway in any direction when the exposed surface of the glass is less than 60 inches (1524 mm) above the nose of the tread.

Exception: Safety glazing for Item 10 or 11 is not required for the following installations where:

- The side of a stairway, landing or ramp which has a guard or handrail, including balusters or in-fill panels, complying with the provisions of Sections 1013 and 1607.7; and
- The plane of the glass is greater than 18 inches (457 mm) from the railing.

2406.4.1 Exceptions: The following products, materials and uses shall not be considered specific hazardous locations:

- Openings in doors through which a 3-inch (76 mm) sphere is unable to pass.
- Decorative glass in Section 2406.4, Item 1, 6 or 7.
- Glazing materials used as curved glazed panels in revolving doors.
- Commercial refrigerated cabinet glazed doors.
- Glass-block panels complying with Section 2101.2.5.
- Louvered windows and jalousies complying with the requirements of Section 2403.5.
- Mirrors and other glass panels mounted or hung on a surface that provides a continuous backing support.

WINDOW TYPE	(W1)	WINDOW TYPE	(W2)	WINDOW TYPE	(W3)	WINDOW TYPE	(W4)
CASEMENT		CASEMENT		CASEMENT		CASEMENT	
MODEL#		MODEL#		MODEL#		MODEL#	
QUANTITY		QUANTITY		QUANTITY		QUANTITY	
TOP		TOP		TOP		TOP	
BOTTOM		BOTTOM		BOTTOM		BOTTOM	
DIMENSIONS	WIDTH HEIGHT	DIMENSIONS WIDTH HEIGHT	DIMENSIONS WIDTH HEIGHT	DIMENSIONS WIDTH HEIGHT	DIMENSIONS WIDTH HEIGHT	DIMENSIONS WIDTH HEIGHT	DIMENSIONS WIDTH HEIGHT
NOMINAL SIZE	1'-2" 9'-0"	NOMINAL SIZE 6'-0" 9'-0"	NOMINAL SIZE 6'-0" 9'-0"	NOMINAL SIZE 9'-0" 9'-0"	NOMINAL SIZE 9'-0" 9'-0"	NOMINAL SIZE 6'-0" 9'-0"	NOMINAL SIZE 6'-0" 9'-0"
AREA		AREA		AREA		AREA	
OPERABLE (AIR)	0 sf	OPERABLE (AIR) 42.00 sf	OPERABLE (AIR) 42.00 sf	OPERABLE (AIR) 42.00 sf	OPERABLE (AIR) 42.00 sf	OPERABLE (AIR) 21.00 sf	OPERABLE (AIR) 21.00 sf
GLASS ABOVE 30" (LIGHT)	4.72 sf	GLASS ABOVE 30" (LIGHT) 32.51 sf	GLASS ABOVE 30" (LIGHT) 32.51 sf	GLASS ABOVE 30" (LIGHT) 46.61 sf	GLASS ABOVE 30" (LIGHT) 46.61 sf	GLASS ABOVE 30" (LIGHT) 30.35 sf	GLASS ABOVE 30" (LIGHT) 30.35 sf
LOCATION	NORTH, SOUTH FACADE	LOCATION NORTH, SOUTH FACADE	LOCATION NORTH, SOUTH FACADE	LOCATION NORTH, SOUTH FACADE	LOCATION NORTH, SOUTH FACADE	LOCATION NORTH FACADE	LOCATION NORTH FACADE
REMARKS	DOUBLE INSULATED	REMARKS DOUBLE INSULATED	REMARKS DOUBLE INSULATED	REMARKS DOUBLE INSULATED	REMARKS DOUBLE INSULATED	REMARKS DOUBLE INSULATED	REMARKS DOUBLE INSULATED

WINDOW AND DOOR NOTES:

- ALL GLASS TO BE DOUBLE INSULATED, LOW-E GLAZING, U FACTOR: 0.30 FOR FIXED, 0.40 FOR OPERABLE. SHGC VALUE: 0.36 FOR FIXED, 0.36 FOR OPERABLE.
- ALL WINDOWS AND DOORS SHALL BE ENERGY STAR OR NFRC LABELED
- WINDOWS, SKYLIGHTS AND SLIDING GLASS DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN 0.2 CFM PER SQUARE FOOT. AIR LEAKAGE SHOULD NOT EXCEED 1.0 CFM/FT² FOR GLAZED SWINGING ENTRANCE DOORS & POWER-OPERATED SLIDING/FOLDING DOORS, 0.06 CFM/FT² FOR CURTAIN WALL & STOREFRONT GLAZING, 0.2 CFM/FT² FOR ALL OTHER PRODUCTS IN ACCORDANCE WITH AAMA/WDMA/ CSA101/ I.S.2/A440, NFRC400, or ASTM E283
- ALL GLAZING TO HAVE MINIMUM 25 STC RATING
- F INDICATES FIXED WINDOW / I INDICATES TEMPERED GLASS REQUIRED
- ALL QUANTITIES SHALL BE VERIFIED W/ PLANS & ELEVATIONS BY GC & WINDOW SUPPLIER
- ENTRANCE, VESTIBULE AND ALL EXTERIOR DOORS SHALL BE SELF CLOSING
- BUILDING SHALL BE PROVIDED WITH A SKYLIGHT AT LEAST TWENTY SQUARE FEET IN AREA, GLAZED WITH PLAIN GLASS WITH WIRE SCREEN OVER AND UNDER AND PROVIDED WITH FIXED OR MOVABLE VENTILATORS HAVING A MINIMUM OPEN AREA OF ONE HUNDRED FORTY-FOUR SQUARE INCHES. IN LIEU OF THE SKYLIGHT AND VENTILATORS A WINDOW OF EQUAL AREA MAY BE PROVIDED WITH FIXED LOUVERS HAVING A MINIMUM OPEN AREA OF ONE HUNDRED FORTY-FOUR SQUARE INCHES.

WINDOW TYPE	(W5)	WINDOW TYPE	(W6)	WINDOW TYPE	(Entry)
CASEMENT		CASEMENT		CASEMENT	
MODEL#		MODEL#		MODEL#	
QUANTITY		QUANTITY		QUANTITY	
TOP		TOP		TOP	
BOTTOM		BOTTOM		BOTTOM	
DIMENSIONS	WIDTH HEIGHT	DIMENSIONS WIDTH HEIGHT	DIMENSIONS WIDTH HEIGHT	DIMENSIONS WIDTH HEIGHT	DIMENSIONS WIDTH HEIGHT
NOMINAL SIZE	6'-0" 9'-0"	NOMINAL SIZE 3'-0" 6'-0"	NOMINAL SIZE 3'-0" 6'-0"	NOMINAL SIZE 3'-4" 9'-0"	NOMINAL SIZE 3'-4" 9'-0"
AREA		AREA		AREA	
OPERABLE (AIR)	36.00 sf	OPERABLE (AIR) 0 sf	OPERABLE (AIR) 0 sf	OPERABLE (AIR) 30.00 sf	OPERABLE (AIR) 30.00 sf
GLASS ABOVE 30" (LIGHT)	28.85 sf	GLASS ABOVE 30" (LIGHT) 9.26 sf	GLASS ABOVE 30" (LIGHT) 9.26 sf	GLASS ABOVE 30" (LIGHT) 18.35 sf	GLASS ABOVE 30" (LIGHT) 18.35 sf
LOCATION	NORTH FACADE	LOCATION NORTH FACADE	LOCATION NORTH FACADE	LOCATION NORTH FACADE	LOCATION NORTH FACADE
REMARKS	DOUBLE INSULATED	REMARKS 1-1/2 HOUR WIRE GLASS, MIN 6 SF VENT TO BE PROVIDED WITH MOTORIZED DAMPER, REFER TO MECHANICAL DRAWINGS.	REMARKS 1-1/2 HOUR WIRE GLASS, MIN 6 SF VENT TO BE PROVIDED WITH MOTORIZED DAMPER, REFER TO MECHANICAL DRAWINGS.	REMARKS DOUBLE INSULATED WINDOW AND DOOR TO BE "NON-TINTED" GLASS	REMARKS DOUBLE INSULATED WINDOW AND DOOR TO BE "NON-TINTED" GLASS

**TABLE C402.5.2
 MAXIMUM AIR LEAKAGE RATE
 FOR FENESTRATION ASSEMBLIES**

FENESTRATION ASSEMBLY	MAXIMUM RATE (CFM/FT ²)	TEST PROCEDURE
Windows	0.20 ^a	AAMA/WDMA/ CSA101/I.S.2/A440 or NFRC 4000
Sliding doors	0.20 ^b	
Swinging doors	0.20 ^b	
Skylights - with condensation weepage openings	0.30	
Skylights - all other	0.20 ^b	
Curtain Walls	0.06	NFRC 400 or ASTM E 283 at 1.57 psf (75 Pa)
Storefront Glazing	0.06	
Commercial glazed swinging entrance doors	1.00	NFRC 400 or ASTM E 283 at 1.57 psf (75 Pa)
Power-operated sliding doors and power-operated folding doors	1.00	
Revolving doors	1.00	ANSI/DASMA 105, NFRC 400, or ASTM E 283 at 1.57 psf (75 Pa)
Garage doors	0.40	
Rolling doors	1.00	
High-speed doors	1.30	

PANEL	SIZE Length	Width	AREA	TYPE	U-Value	UA
A	9.00 ft	1.16 ft	10.44 sf	Fixed	0.3	3.13
B	2.00 ft	3.00 ft	6.00 sf	Fixed	0.3	1.80
C.1	7.00 ft	3.00 ft	21.00 sf	Operable	0.4	8.40
C.2	7.00 ft	3.00 ft	21.00 sf	Operable	0.4	8.40
D	7.00 ft	3.00 ft	21.00 sf	Fixed	0.3	6.30
E	7.00 ft	3.00 ft	21.00 sf	Operable	0.4	8.40
F.1	6.00 ft	3.00 ft	18.00 sf	Operable	0.4	7.20
F.2	6.00 ft	3.00 ft	18.00 sf	Operable	0.4	7.20
G	4.00 ft	3.00 ft	12.00 sf	Fixed	0.3	3.60
Entry	9.00 ft	3.33 ft	29.97 sf	Entry	0.77	23.08
Exit	8.17 ft	3.33 ft	27.19 sf	Opaque	0.5	13.60

WINDOW	PANEL TYPES							
	1	2	3	4	5	6	7	8
W1	A	-	-	-	-	-	-	-
W2	B	B	C.1	C.2	-	-	-	-
W3	B	B	B	C.1	D	E	-	-
W4	B	B	D	E	-	-	-	-
W5	F.1	F.2	-	-	-	-	-	-
W6	G	-	-	-	-	-	-	-
Entry	Entry	-	-	-	-	-	-	-
Exit	Exit	-	-	-	-	-	-	-

Danalys Nazario

Danalys Nazario

APPROVED Under Directive 2 of 1975

Date: 03/05/2021 ITEM: NYC Development Hub

03/05/2020 DOB SUBMISSION
 11/25/2020 DOB SUBMISSION
 10/22/2020 DOB SUBMISSION

PROJECT 32 EAST 29TH STREET BROOKLYN, NY 11226

DRAWING TITLE WINDOW SCHEDULE

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REGISTERED ARCHITECT ROBERT BIANCHI 33616 STATE OF NEW YORK

DOOR SCHEDULE

SYMBOL: (A-36)	UNIT ENTRY DOOR	MATERIAL		SIZE			DETAIL		QUANTITY		TOTAL
		DOOR	FRAME	WIDTH	HEIGHT	THICKNESS	JAMB	SILL	LH / R	RH / R	
	H.M.	H.M.	3'-0"	8'-0"	1 3/4"						
	MIN. STC RATING: 35		FIRE RATING: 1 1/2 HR FPSC			HARDWARE:					
REMARKS: APT. ENTRY DR. W/ COMBINATION INTERVIEWER & CHIME ALL DOORS TO HAVE WEATHER STRIPPING PROVIDE MORTIS KEY LOCK AND CHAIN DOOR GUARD AS PER HMC 27-2043											
SYMBOL: (B-34)	BEDROOM/ BATHROOM DOORS	MATERIAL		SIZE			DETAIL		QUANTITY		TOTAL
		DOOR	FRAME	WIDTH	HEIGHT	THICKNESS	JAMB	SILL	LH / R	RH / R	
	WD.	WD.	2'-10"	8'-0"	1 3/8"						
	STC RATING:		FIRE RATING: NONE REQD.			HARDWARE: LEVER W/ PRIVACY LOCK					
REMARKS: CLEAR WIDTH OPENING SHALL BE 2'-8" MINIMUM. DOOR THICKNESS IN EXCESS OF 1 3/8" SHALL BE 3'-0" WIDE OR UTILIZE OFFSET HINGES IN ORDER TO MAINTAIN THE REQUIRED 2'-8" OPENING											
SYMBOL: (C-30)	CLOSET DOORS	MATERIAL		SIZE			DETAIL		QUANTITY		TOTAL
		DOOR	FRAME	WIDTH	HEIGHT	THICKNESS	JAMB	SILL	LH / R	RH / R	
	WD.	WD.	2'-6"	8'-0"	1 3/8"						
	STC RATING:		FIRE RATING: NONE REQD.			HARDWARE:					
REMARKS: CLOSET DOOR AS SELECTED BY OWNERS											
SYMBOL: (F-36)	EXIT DOORS	MATERIAL		SIZE			DETAIL		QUANTITY		TOTAL
		DOOR	FRAME	WIDTH	HEIGHT	THICKNESS	JAMB	SILL	LH / R	RH / R	
	H.M.	H.M.	3'-0"	7'-0"	1 3/4"						
	STC RATING:		FIRE RATING: 1 1/2 HR FPSC			HARDWARE:					
REMARKS: EXIT DOORS ASSOCIATED WITH THE BUILDING THERMAL ENVELOPE TO HAVE MAXIMUM U-FACTOR OF 0.50											
SYMBOL: (G-38)	REFUSE ROOM	MATERIAL		SIZE			DETAIL		QUANTITY		TOTAL
		DOOR	FRAME	WIDTH	HEIGHT	THICKNESS	JAMB	SILL	LH / R	RH / R	
	H.M.	H.M.	3'-2"	8'-0"	1 3/4"						
	MIN. STC RATING: 35		FIRE RATING: 1 1/2 HR FPSC			HARDWARE:					
REMARKS: DOOR W/ AUTOMATIC DOOR OPENER AND OCCUPANCY SENSOR TO MAINTAIN DOOR IN OPEN POSITION WHILE THE ROOM IS OCCUPIED. DOOR MUST RETURN TO CLOSED POSITION IF THE ROOM IS NOT OCCUPIED OR IN CASE OF POWER FAILURE.											
SYMBOL: (U-36)	UTILITY ROOMS	MATERIAL		SIZE			DETAIL		QUANTITY		TOTAL
		DOOR	FRAME	WIDTH	HEIGHT	THICKNESS	JAMB	SILL	LH / R	RH / R	
	H.M.	H.M.	3'-0"	8'-0"	1 3/4"						
	H.M.	H.M.	2'-6"	8'-0"	1 3/4"						
STC RATING:		FIRE RATING: 1 1/2 HR FPSC			HARDWARE:						
REMARKS: DOOR W/ AUTOMATIC DOOR OPENER AND OCCUPANCY SENSOR TO MAINTAIN DOOR IN OPEN POSITION WHILE THE ROOM IS OCCUPIED. DOOR MUST RETURN TO CLOSED POSITION IF THE ROOM IS NOT OCCUPIED OR IN CASE OF POWER FAILURE.											
SYMBOL: Entry	BUILDING ENTRY	MATERIAL		SIZE			DETAIL		QUANTITY		TOTAL
		DOOR	FRAME	WIDTH	HEIGHT	THICKNESS	JAMB	SILL	LH / R	RH / R	
	H.M.	H.M.	3'-0"	8'-8"	1 3/4"						
	STC RATING:		FIRE RATING: 1 1/2 HR FPSC			HARDWARE:					
REMARKS: WINDOW AND DOOR TO BE "NON-TINTED" GLASS											

DOOR NOTES:

- PROVIDE ADAPTABLE FRAMES FOR FUTURE OUTSWINGING (ADA) BATHROOM DOORS THROUGHOUT.
- ALL DOORS IN FIRE RATED PARTITIONS SHALL BE FIRE RATED, AND HAVE CLOSERS AND LATCH
- * DENOTES 1 1/2 HR. FIRE PROTECTED SELF-CLOSING
- DOOR OPENING FORCE FOR DOORS OTHER THAN FPSC DOORS SHALL BE 5 LBS MAXIMUM AS PER ANSI A 117.1-2003
- ALL APARTMENT ENTRY & STAIR DOORS & FRAMES SHALL BE APPROVED IN ACCORDANCE WITH UL 1784 FOR SMOKE AND DRAFT CONTROL AND SHALL BE LABELED FOR 1 1/2 HOUR RATED SELF CLOSING AND BEAR THE LETTER "S".

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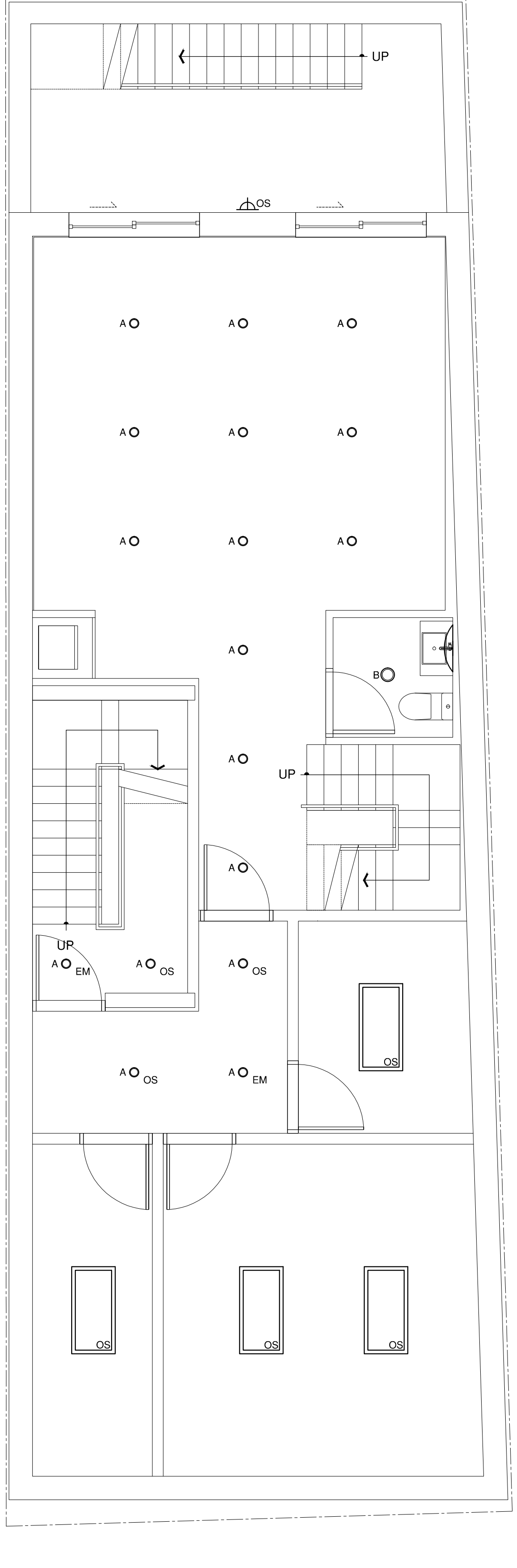
PROJECT 32 EAST 29TH STREET
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DOOR SCHEDULE

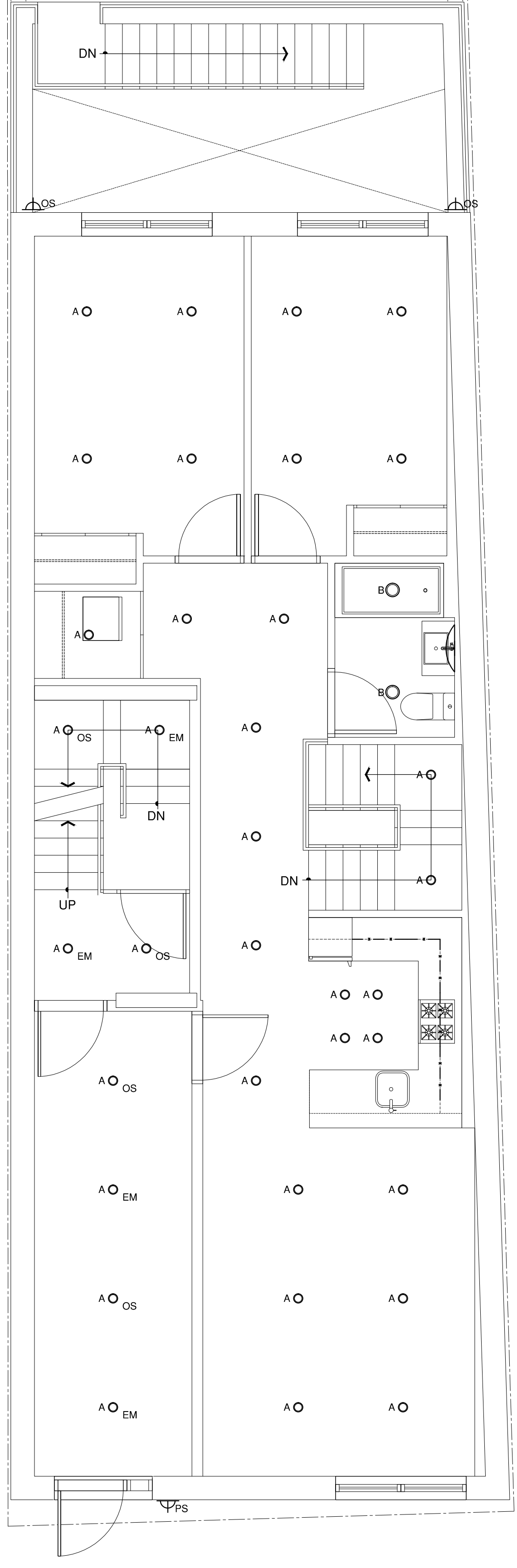
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 PAGE NO. 25 OF 33
 DRAWING NO. **A-610.00**

LIGHTING NOTES

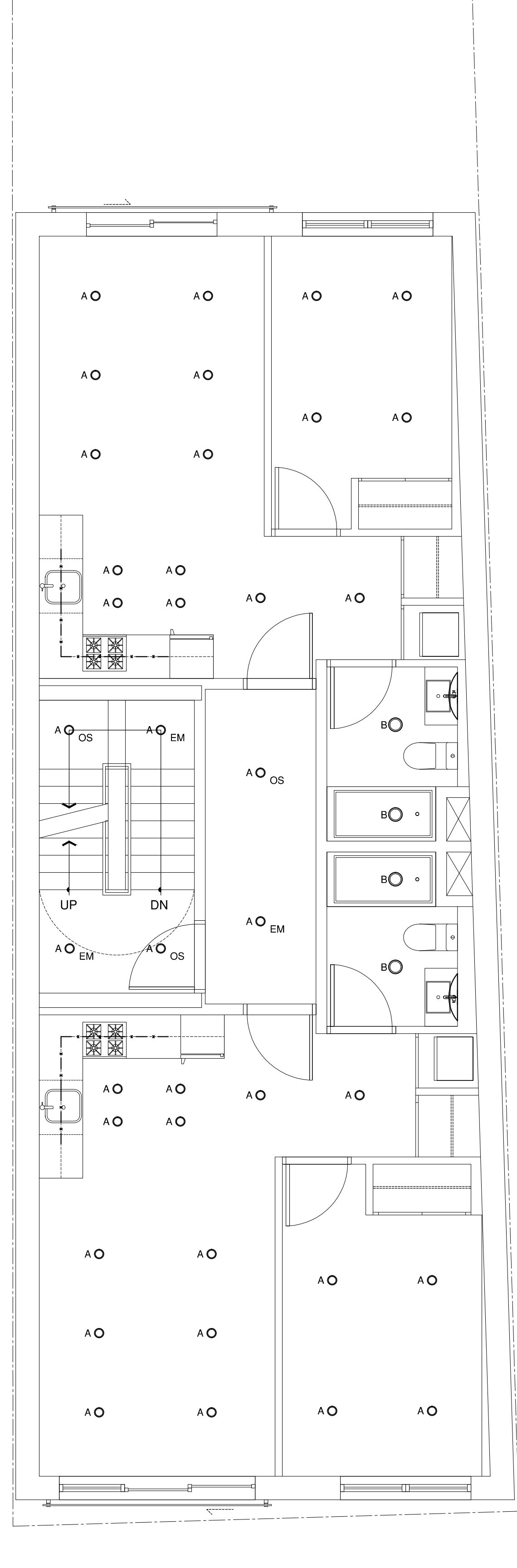
1. PER C405.1 DWELLING UNITS SHALL HAVE MINIMUM OF 90 PERCENT OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES. SHALL BE HIGH-EFFICACY LAMPS OF AT LEAST 65 LUMENS PER WATT OR A TOTAL LUMINAIRE EFFICACY OF AT LEAST 45 LUMENS PER WATT - ANY SUBSTITUTED FIXTURE MUST NOT EXCEED THE POWER REQUIREMENTS INDICATED, TRADEOFFS AMONG SPACES ARE PERMITTED
2. ANY SUBSTITUTED FIXTURE MUST NOT EXCEED THE POWER REQUIREMENTS INDICATED, TRADEOFFS AMONG SPACES ARE PERMITTED
3. ASSIGNED SPECIAL INSPECTOR RESPONSIBLE FOR ENERGY CODE INSPECTIONS
4. BALLAST TO BE ELECTRONIC DIMMABLE TYPE/ SYSTEM WATTAGE INCLUDES BALLAST
5. ALL CEILINGS TO BE 9'-0" UNLESS OTHERWISE NOTED
6. ALL FLUORESCENT FIXTURES W/ ODD # OF LAMPS WITHIN 10 FT. OF EACH OTHER TO BE TANDEM WIRED
7. FEEDER CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD AND BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD EXCEPT WHEN DEDICATED TO EMERGENCY SERVICES
8. PER C405.2 LIGHTING SYSTEMS SHALL BE PROVIDED WITH CONTROLS THAT COMPLY WITH C405.2.1.1 - C405.2.6 EXCEPT FOR SECURITY / EMERGENCY AREAS, EXIT STAIRWAYS, INTERIOR EXIT RAMPS, EXIT PASSAGEWAYS AND EMERGENCY EGRESS LIGHTING THAT IS NORMALLY OFF.
9. PER C405.2.1. ELECTRIC/MECHANICAL STORAGE/REFUSE ROOMS SHALL REQUIRE OCCUPANT SENSOR CONTROLS. TO BE CONTROLLED VIA LOCAL SWITCHES WITH DUAL TECHNOLOGY SENSOR (MANUAL ON, AUTOMATIC OFF AFTER 15 MIN) PER C405.2.1.1.
10. PER C405.2.1.1. INTERIOR FIXTURES TO HAVE LOCAL MANUAL LIGHTING CONTROLS EXCEPT IN STAIRWAYS, CORRIDORS, RESTROOMS, PRIMARY BUILDING ENTRANCE AREAS AND EMERGENCY AREAS.
11. PER C405.2.1.4. FIXTURES SERVING THE EXIT ACCESS AND PROVIDING MEANS OF EGRESS ILLUMINATION SHALL BE CONTROLLED BY A COMBINATION OF LISTED EMERGENCY RELAY AND OCCUPANCY SENSORS, OR SIGNAL FROM ANOTHER BUILDING CONTROL SYSTEM, THAT AUTOMATICALLY REDUCES THE LIGHTING POWER BY 50% WHEN UNOCCUPIED FOR A PERIOD LONGER THAN 15 MINUTES.
12. PER C405.2.2. EACH AREA OF THE BUILDING THAT IS NOT PROVIDED WITH OS CONTROLS COMPLYING WITH C405.2.1.1 SHALL BE PROVIDED TIME-SWITCH CONTROLS COMPLYING WITH C405.2.2.1. EXCLUDING EXCEPTIONS LISTED.
13. PER C405.2.2.2. EACH AREA THAT IS REQUIRED TO HAVE LIGHT REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE LIGHTING BY NOT LESS THAN 50 PERCENT, BY APPROVED METHODS PER C405.2.2.2.
14. STAIRS TO BE CONTROLLED VIA TIMECLOCK WITH OCCUPANCY SENSOR TO DE-ENERGIZE 50% OF FIXTURES WITHIN 15 MINUTES OF NO OCCUPANCY, 50% OF FIXTURES TO REMAIN ENERGIZED AT ALL TIMES.
15. ALL EXTERIOR LIGHT TO BE CONTROLLED VIA PHOTOSENSOR AND/OR AUTOMATIC TIMECLOCK
16. ALL RECESSED LUMINAIRES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES. ALL RECESSED LUMINAIRES SHALL BE IC-RATED AND LABELED AS MEETING ASTM E 283 WHEN TESTED AT 1.57 PSF (75 PA) PRESSURE DIFFERENTIAL WITH NO MORE THAN 2.0 CFM (0.944 L/S) OF AIR MOVEMENT FROM THE CONDITIONED SPACE TO THE CEILING CAVITY. ALL RECESSED LUMINAIRES SHALL BE SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND INTERIOR WALL OR CEILING COVERING.
17. PER C405.2.3. SPACES WITH A TOTAL OF MORE THAN 100 WATTS OF GENERAL LIGHTING WITHIN SIDELIT ZONES AND TOPLIT ZONES SHALL REQUIRE DAYLIGHT-RESPONSIVE CONTROLS COMPLYING WITH C405.2.3.1.
18. PER C405.2.3.1. DAYLIGHT-RESPONSIVE CONTROLS SHALL COMPLY WITH THE FOLLOWING:
 1. LIGHTS IN TOPLIT ZONES IN ACCORDANCE WITH SECTION C405.2.3.3 SHALL BE CONTROLLED INDEPENDENTLY OF LIGHTS IN SIDELIT ZONES IN ACCORDANCE WITH SECTION C405.2.3.2.
 2. DAYLIGHT RESPONSIVE CONTROLS WITHIN EACH SPACE SHALL BE CONFIGURED SO THAT THEY CAN BE CALIBRATED FROM WITHIN THAT SPACE BY AUTHORIZED PERSONNEL.
 3. CALIBRATION MECHANISMS SHALL BE IN A LOCATION WITH READY ACCESS.
 4. DAYLIGHT RESPONSIVE CONTROLS SHALL DIM LIGHTS CONTINUOUSLY FROM FULL DESIGN LIGHT POWER TO 40 PERCENT OF FULL DESIGN LIGHT POWER OR LOWER.
 5. DAYLIGHT RESPONSIVE CONTROLS SHALL BE CONFIGURED TO COMPLETELY SHUT OFF ALL CONTROLLED LIGHTS.
 6. LIGHTS IN SIDELIT ZONES IN ACCORDANCE WITH SECTION C405.2.3.2 FACING DIFFERENT CARDINAL ORIENTATIONS WITHIN 45 DEGREES (0.79 RAD) OF DUE NORTH, EAST, SOUTH, WEST SHALL BE CONTROLLED INDEPENDENTLY OF EACH OTHER.
19. PER C405.2.6. EXTERIOR LIGHTING SHALL BE PROVIDED CONTROLS THAT COMPLY WITH SECTIONS C405.2.6.1 THROUGH C405.2.6.5. EXCLUDING:
 1. LIGHTING FOR COVERED VEHICLES ENTRANCES AND EXITS FROM BUILDINGS AND PARKING STRUCTURES.
 2. LIGHTING CONTROLLED FROM WITHIN DWELLING UNITS.
20. PER C405.2.6.1. LIGHTS SHALL BE AUTOMATICALLY TURNED OFF WHEN DAYLIGHT IS PRESENT AND SATISFIES THE LIGHTING NEEDS.
21. PER C405.2.6.2. BUILDING FACADE AND LANDSCAPE LIGHTING SHALL AUTOMATICALLY SHUT OFF 1 HOUR AFTER BUSINESS HOURS AND NOT EARLIER THAN 1 HOUR BEFORE BUSINESS HOURS.
22. PER C405.2.6.3. LIGHTING THAT IS NOT CONTROLLED IN COMPLIANCE WITH C405.2.6.2. SHALL BE CONTROLLED SO THAT THE TOTAL WATTAGE OF SUCH LIGHTING IS AUTOMATICALLY REDUCED BY 50% BY SELECTIVELY SWITCHING OFF OR DIMMING LUMINAIRES AT ONE OF THE FOLLOWING TIMES:
 1. FROM NOT LATER THAN MIDNIGHT TO NOT EARLIER THAN 6 A.M.
 2. FROM NOT LATER THAN ONE HOUR AFTER BEFORE BUSINESS OPERATIONS.
 3. DURING AND TIME WHERE ACTIVITY HAS NOT BEEN DETECTED FOR 15 MINUTES OR MORE.
23. INTERNALLY ILLUMINATED MANDATORY EXIT SIGNS SHALL NOT EXCEED 5 WATTS PER SIDE IN ACCORDANCE TO C405.4
24. PER C405.5.1. MANDATORY ELECTRICAL ENERGY CONSUMPTION IN BUILDINGS HAVING INDIVIDUAL DWELLING UNITS, SHALL BE INDIVIDUALLY METERED.
25. PER TABLE C405.3.2(1) MAXIMUM ALLOWED LPD FOR MULTIFAMILY IS 0.49 W/FT.
26. PER C405.3 (REDUCED LIGHTING POWER) THE TOTAL INTERIOR LIGHTING POWER (WATTS) OF THE BUILDING SHALL BE DETERMINED BY USING 90 PERCENT OF THE LIGHTING POWER VALUES SPECIFIED IN TABLE C405.4.2(1) TIMES THE FLOOR AREA FOR THE BUILDING TYPES. NEW MAXIMUM ALLOWED LPD FOR MULTIFAMILY → 0.49W/FT x 90% = 0.44 W/FT
27. PER C408.3 LIGHTING SYSTEM FUNCTIONAL TESTING. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH SECTIONS C408.3.1.1 AND C408.3.1.2 FOR THE APPLICABLE CONTROL TYPE.
28. PER C405.8.1 LUMINAIRES IN EACH ELEVATOR CAB, NOT INCLUDING SIGNALS AND DISPLAYS, THE SUM OF THE LUMENS DIVIDED BY THE SUM OF THE WATTS SHALL BE NOT LESS THAN 35 LUMENS PER WATT. VENTILATION FANS IN ELEVATORS THAT DO NOT HAVE THEIR OWN AC SYSTEM SHALL NOT CONSUME MORE THAN 0.33 WATTS/CFM AT THE MAXIMUM RATED SPEED OF THE FAN. CONTROLS SHALL BE PROVIDED THAT WILL DE-ENERGIZE VENTILATION FANS AND LIGHTING SYSTEMS WHEN THE ELEVATOR IS STOPPED, UNOCCUPIED AND WITH ITS DOORS CLOSED FOR OVER 15 MINUTES.



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



2 RCP 1ST FLOOR
Scale: 1/4"=1'-0"



3 RCP 2ND FLOOR
Scale: 1/4"=1'-0"

PROJECT
32
32 EAST 29TH STREET
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Danalys Nazario
Danalys Nazario
APPROVED
Under Directive 2 of 1975
Date: 03/05/2021
NYC Development Hub

03/05/2020	DOB SUBMISSION
11/25/2020	DOB SUBMISSION
10/22/2020	DOB SUBMISSION

PROJECT
32 EAST 29TH STREET
BROOKLYN, NY 11226

DRAWING TITLE
RCP CELLAR, 1ST & 2ND FLOOR

PROJECT NO:	SEAL & SIGNATURE
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CHECKED BY:	
PAGE NO. 26 OF 33	
DRAWING NO.	

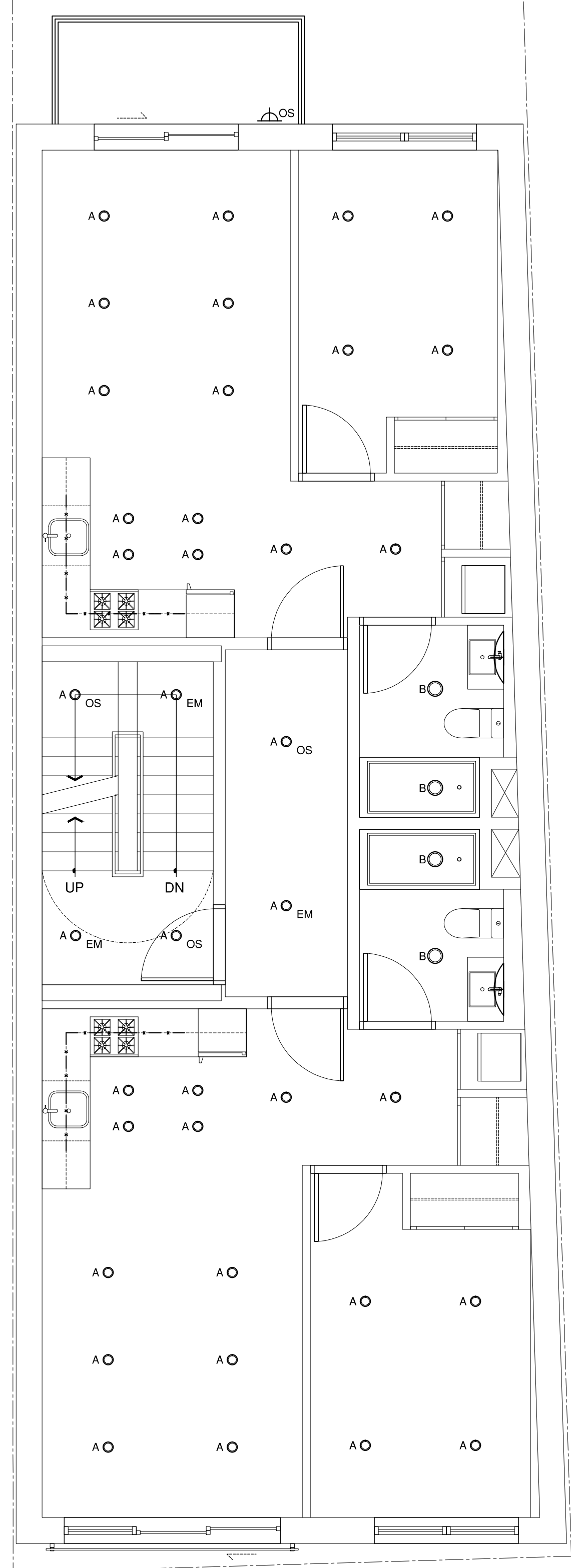
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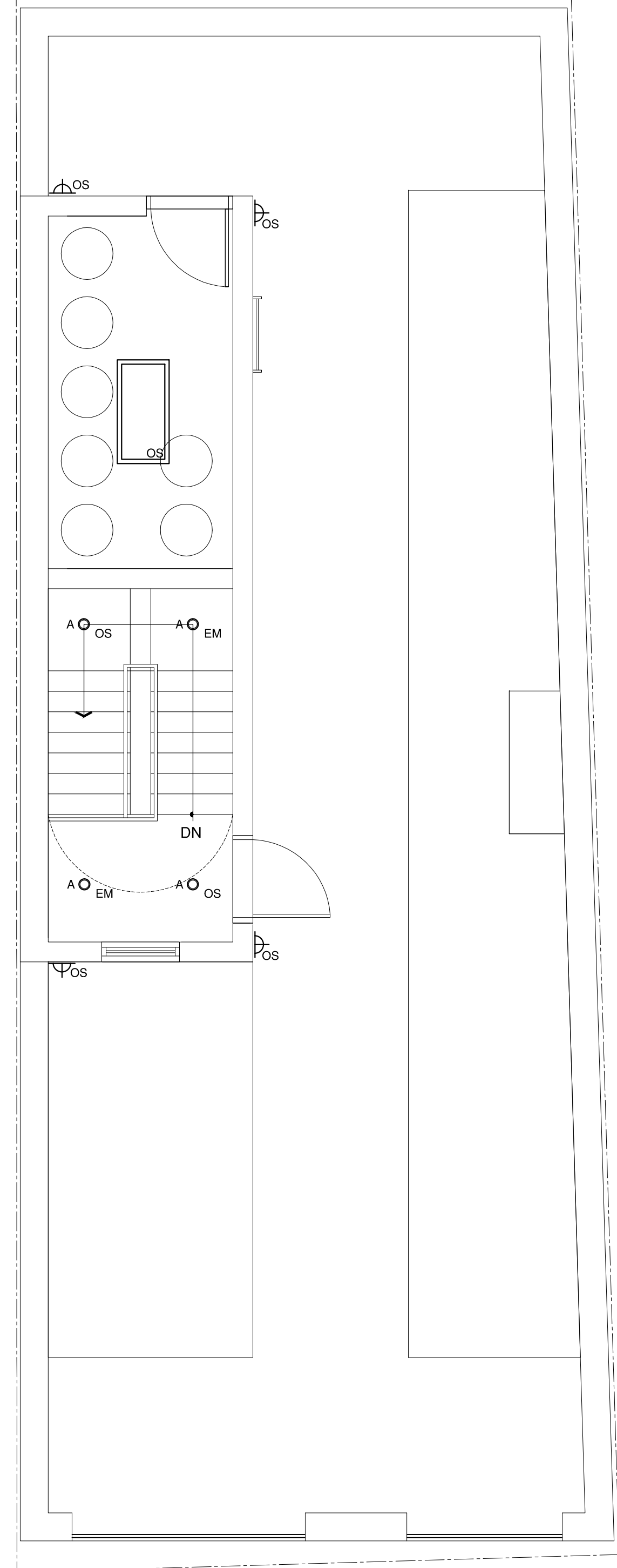
D.O.B. #

321598268

LIGHTING SCHEDULE						
SYMBOL	QUANTITY	DESCRIPTION	LAMPS/ POWER	AVERAGE SYSTEM WATTAGE	MANUFACTURER	REMARKS
AO	170	4" RECESSED CEILING DOWNLIGHT	4LED10-CL 1100L 12.2 WATT 3500K 120 VOLT	12 WATTS	ATLANTIC LIGHTING INC. OR EQUAL	EM INDICATES EMERGENCY POWER OS INDICATES OCCUPANCY SENSOR
BO	15	6" RECESSED CEILING DOWNLIGHT	6LED10-CL 1500L 13.8 WATT 3500K 120 VOLT	15 WATTS	ATLANTIC LIGHTING INC. OR EQUAL	EM INDICATES EMERGENCY POWER
	8	WALL MOUNTED BATHROOM VANITY	FOUR LED LAMPS 6.6 WATTS 3500K 120 VOLT	30 WATTS	HINKLEY LIGHTING OR EQUAL	LATITUDE 5654BN-LED2
	20	24" UNDER CABINET KITCHEN FIXTURE	13LED10 2100L 3000K 120 VOLT	12 WATTS	AIREY-THOMPSON, OR EQUAL	24" FIXTURE LENGTH
	10	EXTERIOR WALL MOUNTED FIXTURE	SINGLE LAMP 32 WATT CFL 120 VOLT	32 WATTS (BF=1.00)	HINKLEY LIGHTING OR EQUAL	EXTERIOR GRADE
	5	2'X4' RECESSED CEILING FIXTURE	LED 3500L 34 WATTS 3500K 120 VOLT	34 WATTS	WILLIAMS LIGHTING OR EQUAL	EM INDICATES EMERGENCY POWER DIM INDICATES DIMMABLE OS INDICATES OCCUPANCY SENSOR
	SEE PLANS	ILLUMINATED EXIT SIGN	MAX 5 WATTS PER ILLUMINATED SIDE		NYLER BY THE EXIT LIGHT CO.	CLEAR PANEL W/ RECESSED BALLAST 90 MINUTE BATTERY



1 RCP 3RD-4TH FLOOR
Scale: 1/4"=1'-0"



2 RCP ROOF PLAN
Scale: 1/4"=1'-0"

PROJECT **32**
32 EAST 29TH STREET
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03/05/2020	DOB SUBMISSION
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10/22/2020	DOB SUBMISSION

PROJECT
32 EAST 29TH STREET
BROOKLYN, NY 11226

DRAWING TITLE
RCP 3RD-5TH, 6TH, & ROOF FLOOR

PROJECT NO:
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PAGE NO. 27 OF 33
DRAWING NO.
A-710.00



D.O.B. #

PROJECT 32 32 EAST 29TH STREET BROOKLYN, NY 11226 ARCHITECT ARC Architecture + Design Studio 71-01 Austin Street Forest Hills, NY 11375 T. 718. 360-7065 E. Info@ARCdesignNYC.com STRUCTURAL ENGINEER R&O Engineering P.C. 64-07 102nd Street, Rego Park, ny 11374 T. 718-793-8345 E. Robert@randocconsulting.com MECHANICAL ENGINEER Fabian Cruz, PE PLLC Consulting Engineers 8-03 College Point Blvd, College Point, NY 11356 T. 917.657-3387

COMcheck Software Version 4.1.4.0 Envelope Compliance Certificate

Project Information Energy Code: 2020 New York City Energy Conservation Code Project Title: Fresh Meadows, NY 11366 Location: New York, New York 4a Climate Zone: New Construction Project Type: Vertical Glazing / Wall Area: 12%

Construction Site: 32 East 29th St Brooklyn, NY 11226 Owner/Agent: Roy Moussaieff 77-25 164th Street Fresh Meadows, NY 11366 917-930-6301 Ezlightinfo@aol.com Designer/Contractor: Robert Bianchini ARC Architecture + Design Studio 71-01 Austin Street Suite 201A Forest Hills, NY 11375 (718) 360-7065 info@arcdesignnyc.com

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Table with 2 columns: Building Area, Floor Area. 1-Multifamily - Residential: 6777

Envelope Assemblies

Table with 7 columns: Assembly, Gross Area or Perimeter, Cavity R-Value, Cont. R-Value, Proposed U-Factor, Budget U-Factor. Rows include North Cellar, North Wall, North Bulkhead, Door, East, East-WT, W1, W2.

Project Title: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Comcheck NYCECC 2020.cck Report date: 01/12/21 Page 1 of 13

Assemlby

Table with 7 columns: Assembly, Gross Area or Perimeter, Cavity R-Value, Cont. R-Value, Proposed U-Factor, Budget U-Factor. Rows include W2 Operable Glazing, W3 Fixed Glazing, W3 Operable Glazing, W1 Fixed Glazing, SOUTH, WEST, W2 Operable Glazing, W1 Fixed Glazing, W5 Operable Glazing, WEST-WT-B1, WEST-WT-B2, WEST-WT-B3, WEST-WT-B4, W1 Fixed Glazing, W2 Fixed Glazing, WEST-WT-3, WEST-WT-4.

Project Title: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Comcheck NYCECC 2020.cck Report date: 01/12/21 Page 2 of 13

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements. (b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

Envelope PASSES: Design 12% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design presented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2020 New York City Energy Conservation Code requirements in COMcheck Version 4.1.4.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

ROBERT BIANCHINI Name - Title Signature Date 01/12/2021



Project Title: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Comcheck NYCECC 2020.cck Report date: 01/12/21 Page 3 of 13

COMcheck Software Version 4.1.4.0 Inspection Checklist

Energy Code: 2020 New York City Energy Conservation Code Requirements: 0.0% were addressed directly in the COMcheck software. Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Table with 4 columns: Section # & Req.ID, Plan Review, Complies?, Comments/Assumptions. Rows include C103.2, C402.4.1, C402.4.1, C402.4.2, C405.5.1, C405.5.2.

Project Title: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Comcheck NYCECC 2020.cck Report date: 01/12/21 Page 4 of 13

Table with 4 columns: Section # & Req.ID, Plan Review, Complies?, Comments/Assumptions. Rows include C401.2.1, C406, C405.10, C402.1.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Comcheck NYCECC 2020.cck Report date: 01/12/21 Page 5 of 13

Table with 4 columns: Section # & Req.ID, Footing / Foundation Inspection, Complies?, Comments/Assumptions. Rows include C303.2, C303.2.1, C402.1.4.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Comcheck NYCECC 2020.cck Report date: 01/12/21 Page 6 of 13

Table with 4 columns: Section # & Req.ID, Framing / Rough-In Inspection, Complies?, Comments/Assumptions. Rows include C303.1.3, C402.4.3, C402.4.3, C402.5.1, C402.6, C402.5.2, C402.5.4, C402.5.7.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Comcheck NYCECC 2020.cck Report date: 01/12/21 Page 7 of 13

Table with 4 columns: Section # & Req.ID, Mechanical Rough-In Inspection, Complies?, Comments/Assumptions. Rows include C402.5.5, C403.7.7, C403.7.7.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Comcheck NYCECC 2020.cck Report date: 01/12/21 Page 8 of 13

Danalys Nazario Under Directive 2 of 1975 NYC Development Hub

Table with 2 columns: Date, Submission Type. Rows include 03/05/2020 DOB SUBMISSION, 11/25/2020 DOB SUBMISSION, 10/22/2020 DOB SUBMISSION.

PROJECT 32 EAST 29TH STREET BROOKLYN, NY 11226

DRAWING TITLE ENERGY REPORTS

PROJECT NO: SEAL & SIGNATURE DRAWN BY: CHECKED BY: PAGE NO. 29 OF 33 DRAWING NO.



EN-002.00

D.O.B. #

321598268

PROJECT 32 32 EAST 29TH STREET BROOKLYN, NY 11226 ARCHITECT ARC Architecture + Design Studio 71-01 Austin Street Forest Hills, NY 11375 T. 718. 360-7065 E. Info@ARCdesignNYC.com STRUCTURAL ENGINEER R&O Engineering P.C. 64-07 102nd Street, Rego Park, ny 11374 T. 718-793-8345 E. Robert@randococonsulting.com MECHANICAL ENGINEER Fabian Cruz, PE PLLC Consulting Engineers 8-03 College Point Blvd, College Point, NY 11356 T. 917.657-3387

Table with 4 columns: Section # & Req.ID, Rough-In Electrical Inspection, Complies?, Comments/Assumptions. Rows include C405.6, C405.7, C405.8.2, C405.9.

Additional Comments/Assumptions:

Project Title: Report date: 01/12/21 Data filename: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Comcheck NYCECC 2020.cck Page 9 of 13

Table with 4 columns: Section # & Req.ID, Insulation Inspection, Complies?, Comments/Assumptions. Rows include C303.1, C402.2.1, C303.1, C303.2, C303.2.1, C105, C402.2.8, C402.2.6, C105, C402.5.1.

Additional Comments/Assumptions:

Project Title: Report date: 01/12/21 Data filename: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Comcheck NYCECC 2020.cck Page 10 of 13

Table with 4 columns: Section # & Req.ID, Final Inspection, Complies?, Comments/Assumptions. Rows include C402.5.6, C402.5.8, C408.1.1, C408.4, C408.4.1, C408.4.2, C408.4.3.

Additional Comments/Assumptions:

Project Title: Report date: 01/12/21 Data filename: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Comcheck NYCECC 2020.cck Page 11 of 13

Table with 4 columns: Section # & Req.ID, Final Inspection, Complies?, Comments/Assumptions. Rows include C103.2, C405.5.1, C405.5.2, C401.2.1, C406, C405.10.

Additional Comments/Assumptions:

Project Title: Report date: 10/01/20 Data filename: C:\Users\win7p\Dropbox\ARC\2264 Atlantic Ave\Documents\Energy Code\2264 Atlantic Ave - Comcheck NYCECC 2020.cck Page 12 of 13

COMcheck Software Version 4.1.4.0 Interior Lighting Compliance Certificate

Project Information Energy Code: 2020 New York City Energy Conservation Code Project Title: New Construction Construction Site: 32 East 29th St Brooklyn, NY 11226 Owner/Agent: Roy Mousaieff 77-25 164th Street Fresh Meadows, NY 11366 917-930-6301 Ezlightinfo@aol.com Designer/Contractor: Robert Bianchini ARC Architecture + Design Studio Suite 201A Forest Hills, NY 11375 (718) 360-7065 info@arcdesignnyc.com

Additional Efficiency Package(s) Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Table: Allowed Interior Lighting Power. Columns: Area Category, Floor Area (ft2), Allowed Watts / ft2, Allowed Watts (B X C). Row: 1-Multifamily, 6777, 0.44, 2989.

Table: Proposed Interior Lighting Power. Columns: Fixture ID, Description / Lamp / Wattage Per Lamp / Ballast, Lamps/Fixture, # of Fixtures, Fixture Watt., (C X D). Rows include LED A, LED B, Bathroom Vanity, Under Cabinet, LED - 2x4.

Interior Lighting PASSES: Design 1% better than code

Interior Lighting Compliance Statement Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application.

ROBERT BIANCHINI Name - Title Signature Date 01/12/2021

Project Title: Report date: 01/12/21 Data filename: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Comcheck NYCECC 2020.cck Page 1 of 8

COMcheck Software Version 4.1.4.0 Inspection Checklist Energy Code: 2020 New York City Energy Conservation Code

Requirements: 0.0% were addressed directly in the COMcheck software Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen.

Table with 4 columns: Section # & Req.ID, Plan Review, Complies?, Comments/Assumptions. Rows include C103.2, C405.5.1, C405.5.2, C401.2.1, C406, C405.10.

Project Title: Report date: 01/12/21 Data filename: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Comcheck NYCECC 2020.cck Page 2 of 8

Additional Comments/Assumptions:

Project Title: Report date: 01/12/21 Data filename: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Comcheck NYCECC 2020.cck Page 3 of 8

Danalys Nazario APPROVED Under Directive 2 of 1975 Date: 03/05/2021 NYC Development Hub

Table with 2 columns: Date, Submission Type. Rows: 03/05/2020 DOB SUBMISSION, 11/25/2020 DOB SUBMISSION, 10/22/2020 DOB SUBMISSION.

PROJECT 32 EAST 29TH STREET BROOKLYN, NY 11226

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PROJECT NO: SEAL & SIGNATURE DRAWN BY: CHECKED BY: PAGE NO. 30 OF 33 DRAWING NO.

EN-003.00 REGISTERED ARCHITECT ROBERT BIANCHINI STATE OF NEW YORK 38616

D.O.B. # 321598268

PROJECT 32 32 EAST 29TH STREET BROOKLYN, NY 11226 ARCHITECT ARC Architecture + Design Studio 71-01 Austin Street Forest Hills, NY 11375 T. 718. 360-7065 E. Info@ARCdesignNYC.com STRUCTURAL ENGINEER R&O Engineering P.C. 64-07 102nd Street, Rego Park, ny 11374 T. 718-793-8345 E. Robert@randocconsulting.com MECHANICAL ENGINEER Fabian Cruz, PE PLLC Consulting Engineers 8-03 College Point Blvd, College Point, NY 11356 T. 917.657-3387

Table with 4 columns: Section # & Req. ID, Rough-In Electrical Inspection, Complies?, Comments/Assumptions. Rows include C405.2.2, C405.2.1, C405.2.1, C405.2.1, C405.2.1, C405.2.1, C405.2.1, C405.2.1, C405.2.2.

Table with 4 columns: Section # & Req. ID, Rough-In Electrical Inspection, Complies?, Comments/Assumptions. Rows include C405.2.3, C405.2.3, C405.2.3, C405.2.4, C405.2.4, C405.2.4, C405.2.4, C405.1.1, C405.6, C405.7, C405.8.2, C405.8.2, C405.9.

Table with 4 columns: Section # & Req. ID, Final Inspection, Complies?, Comments/Assumptions. Rows include C303.3, C408.2.5, C405.3.1, C408.1.1, C408.3.

Project Title: Report date: 01/12/21 Data filename: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Page 4 of 8 Comcheck NYCECC 2020.cck

Project Title: Report date: 01/12/21 Data filename: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Page 5 of 8 Comcheck NYCECC 2020.cck

Project Title: Report date: 01/12/21 Data filename: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Page 6 of 8 Comcheck NYCECC 2020.cck

Project Title: Report date: 01/12/21 Data filename: C:\Users\win7p\Dropbox\ARC\32 East 29th Street\Documents\Energy Code\32 East 29th St - Page 7 of 8 Comcheck NYCECC 2020.cck

COMcheck Software Version 4.1.4.0 Exterior Lighting Compliance Certificate. Project Information: 2020 New York City Energy Conservation Code. Allowed Exterior Lighting Power table with columns A-E. Proposed Exterior Lighting Power table with columns A-E. Includes project details like construction site, owner, and designer.

COMcheck Software Version 4.1.4.0 Inspection Checklist. Energy Code: 2020 New York City Energy Conservation Code. Requirements: 0.0% were addressed directly in the COMcheck software. Exterior Lighting PASSES: Design 66% better than code. Includes a table for fixture details and a signature block for Robert Bianchini.

COMcheck Software Version 4.1.4.0 Inspection Checklist. Energy Code: 2020 New York City Energy Conservation Code. Requirements: 0.0% were addressed directly in the COMcheck software. Text in the 'Comments/Assumptions' column is provided by the user in the COMcheck Requirements screen. Includes a table for section reviews and a signature block for Danalys Nazario.

Danalys Nazario ANALYST Buildings. APPROVED Under Directive 2 of 1975. NYC Development Hub. PROJECT: 32 EAST 29TH STREET BROOKLYN, NY 11226 DRAWING TITLE: ENERGY REPORTS. PROJECT NO., SEAL & SIGNATURE, DRAWN BY, CHECKED BY, PAGE NO. 31 OF 33, DRAWING NO. EN-004.00, D.O.B. #, 321598268

PROJECT
32
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 Consulting Engineers
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 T. 917.657-3387

Additional Comments/Assumptions:

Section # & Req. ID	Rough-in Electrical Inspection	Complies?	Comments/Assumptions
C405.2.6 (EL28)?	Exterior lighting systems provided with controls that comply with Sections C405.2.6.1 through C405.2.6.5. Decorative lighting systems comply with Sections C405.2.6.1.2, and C405.2.6.4.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.6 (EL31)?	Lights automatically turned off when daylight is present and satisfies the lighting needs.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.6 (EL32)?	Building facade and landscape lighting automatically shut off from not later than 1 hour after business closing to not earlier than 1 hour before business opening.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.6 (EL33)?	Lighting that is not controlled in accordance with Section C405.2.6.2 controlled so that the total wattage of such lighting is automatically reduced by not less than 50 percent by selectively switching off or dimming luminaires at one of the following times: 1. From not later than midnight to not earlier than 6a.m. 2. From not later than one hour after business closing to not earlier than one hour before business opening. 3. During any time where activity has not been detected for 15 minutes or more.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.6 (EL34)?	Time-switch controls for exterior lighting comply with the following: 1. Have a clock capable of being programmed for not fewer than 7 days. 2. Capable of being set for seven different day types per week. 3. Incorporate an automatic holiday setback feature. 4. Have program backup capabilities that prevent the loss of program and time settings for a period of not less than 10 hours in the event that power is interrupted.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.6 (EL35)?	Outdoor parking area luminaires mounted 24" or less above the ground controlled to automatically reduce the power of each luminaire by a minimum of 50 percent when no activity has been detected for at least 15 minutes. No more than 1500 W of lighting power shall be controlled together.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.6 (EL26)?	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.7 (EL27)?	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section # & Req. ID	Rough-in Electrical Inspection	Complies?	Comments/Assumptions
C405.8.2 (EL28)?	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.9 (EL29)?	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C405.4.1 (F119)?	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Exterior Lighting Fixture schedule for values.
C408.1.1 (F157)?	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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03/05/2020	DOB SUBMISSION
11/25/2020	DOB SUBMISSION
10/22/2020	DOB SUBMISSION

PROJECT
 32 EAST 29TH STREET
 BROOKLYN, NY 11226

DRAWING TITLE
ENERGY REPORTS

PROJECT NO.:	SEAL & SIGNATURE
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CHECKED BY:	
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EN-005.00

D.O.B. #

321598268

TABLE II - PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE - COMPLIANCE BUILDINGS

Inspection / Test	Periodic (minimum)	Reference Standard (See ECC Chapter C6) or Other Criteria	ECC or Other Citation	Inspection Required	
				YES	NO
IIA Envelope Inspections					
IIA1 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 slab-on-grade floors.	As required during foundation work and prior to backfill	Approved construction documents, ASTM C272	C303.2.1; ASHRAE 90.1 – 5.8.1, 5.9	X	
IIA2 Insulation placement and R-values: Installed insulation for each component of the conditioned space envelope and at junctions between components, including thermal bridges and heated slab insulation, must be visually inspected to ensure that the R-values are marked, that such R-values conform to the R-values identified in the construction documents and that the insulation is properly installed. Certifications for unmarked insulation also be visually inspected.	As required to verify continuous enclosure while walls, ceilings and floors are open	Approved construction documents	C303.1, C303.2, C402.1, C402.2, C402.6, C406; ASHRAE 90.1-5.5, 5.6, 5.8, 5.9, 11 or Appendix G, Appendix I	X	
IIA3 Fenestration and door U-factor and product ratings: U-factors, SHGC and VT values of installed fenestration must be visually inspected for conformance with the U-factors, SHGC and VT values identified in the construction drawings by verifying the manufacturer's NFRC labels or, where not labeled, using the ratings in ECC Tables C303.1.3(1), (2) and (3).	As required during installation	Approved construction documents; NFRC 100, NFRC 200, NFRC 300, ANSI/DASMA 105, ASTM E972	C303.1, C303.1.3, C402.1.4, C402.4, C406; ASHRAE 90.1 – 5.4.2, 5.5, 5.6, 5.8.2, 5.9, 11 or Appendix G, Appendix I	X	
IIA4 Fenestration air leakage: Windows and door assemblies, except site-built windows and/or doors, must be visually inspected to verify that installed assemblies are listed and labeled by the manufacturer to the referenced standard. For curtain wall, storefront glazing, commercial entrance doors and revolving doors, the testing reports must be reviewed to verify that the installed assembly complies with the standard cited in the approved plans. Weatherseals at loading docks must be visually verified.	As required during installation; prior to final construction inspection	NFRC 400, AAMA/WDMA/CSA 101/I.S.2/A440 ASTM E283; ANSI/DASMA 105	C402.5.2, C402.5.6; ASHRAE 90.1 – 5.4.3.2, 5.4.3.3, 5.8.2, 5.9	X	
IIA5 Fenestration areas: Dimensions of windows, doors and skylights shall be verified by visual inspection.	Prior to final construction inspection	Approved construction documents	C402.4; ASHRAE 90.1 – 5.4, 5.5.4, 5.6, 5.9, 11 or Appendix G	X	
IIA6 Air barrier visual inspection: Openings and penetrations in the building envelope, including site-built 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, in accordance with the standard(s) cited in the approved plans.	As required during construction	Approved construction documents; ASTM E2178, ASTM E2357, ASTM E1677, ASTM E779, ASTM E283	C402.5; ASHRAE 90.1-5.4.3.1, 5.4.3.5, 5.9	X	
IIA7 Air barrier testing: Testing must be performed in accordance with section ECC C402.5.1.3.1 or ASHRAE 90.1 section 5.4.3.1.3, and shall be accepted if the building meets the requirements detailed in such section. Test results must be retained in accordance with the provisions of Title 28 of the Administrative Code. Testing must be performed by a thirdparty independent of the contractor and acceptable to the department.	As required during construction, or prior to final construction inspection	Approved construction documents; ASTM E 779, ANSI/BOMA Z65.1, ASTM E3158, RESNET/ICC 380	C402.5, C402.5.1.3, C406; ASHRAE 90.1 – 5.4.3.1.3, 5.9, Appendix I		X
IIA8 Air barrier continuity plan testing: Each unique air barrier joint or seam must be tested or inspected for compliance. Documentation includes the method of test performed on each unique air barrier joint or seam and the results of the test. If an air barrier joint or seam has a deficiency, the deficiency must be noted, and retested until it complies with the testing requirements. Test results shall be retained in accordance with the provisions of Title 28 of the Administrative Code. Testing must be performed by a third-party independent of the contractor and acceptable to the department.	As required during construction	Approved construction documents; ASTM E779, ASTM E1186, ASTM E2813, ASTM E3158	C402.5.1.3; ASHRAE 90.1 – 5.4.3.1.3, 5.9		X
IIA9 Vestibules: Required entrance vestibules must be visually inspected for proper operation	Prior to final construction inspection	Approved construction documents	C402.5.7; ASHRAE 90.1-5.4.3.4		X
IIB Mechanical and Service Water Heating Inspections					
IIB1 Fireplaces: Provision of combustion air and tight-fitting fireplace doors must be verified by visual inspection	Prior to final construction inspection	Approved construction documents; UL 127	C402.2.8; BC 2111; MC Chapters 7, 8, 9; FGC Chapter 6		X
IIB2 Shutoff dampers: Dampers for stair and elevator shaft vents and other outdoor air intakes and exhaust openings integral to the building envelope must be visually inspected to verify that such dampers, except where permitted to be gravity dampers, comply with approved construction drawings. Manufacturer's literature must be reviewed to verify that the product has been tested and found to meet the standard.	As required during installation	Approved construction documents; AMCA 500D	C402.5.5, C403.7.7; ASHRAE 90.1 – 6.4.3.4	X	
IIB3 HVAC-R, commercial kitchen equipment, and service water heating equipment: Equipment sizing, efficiencies, pipe sizing and other performance factors of all major equipment units, as determined by the applicant of record, and no less than 15% of minor equipment units, must be verified by visual inspection and, where necessary, review of manufacturer's data. Pool heaters and covers must be verified by visual inspection.	Prior to final plumbing and construction inspection	Approved construction documents, ASHRAE 183, ASHRAE HVAC Systems and Equipment Handbook	C403.1, C403.2, C403.3, C403.7.5, C404.2, C404.5, C404.9, C405.10, C406; ASHRAE 90.1 – 6.3, 6.4, 6.5, 6.7, 7.4, 7.5, 7.8, 10.4.6, Appendix I	X	
IIB4 HVAC-R and service water heating system controls: No less than 20% of each type of required controls must be verified by visual inspection and tested for functionality and proper operation. Such controls must include, but are not limited to: <ul style="list-style-type: none"> Thermostatic Off-hour Zones Freeze protection/Snow- and ice-melt system Ventilation System and Fan Controls Energy recovery systems Kitchen/lab exhaust systems Fan systems serving single and multiple zones Outdoor heating systems HVAC control in hotel/motel guest rooms Air/Water Economizers & controls Hydronic systems Heat rejection systems Hot gas bypass limitation Refrigeration systems Door switches Computer room systems Service water heating systems Pool heater and time switches Controls with seasonally dependent functionality: Controls whose complete operation cannot be demonstrated due to prevailing weather conditions typical of the season during which progress inspections will be performed shall be permitted to be signed off for the purpose of a Temporary Certificate of Occupancy with only a visual inspection, provided, however, that the progress inspector must perform a supplemental inspection where the controls are visually inspected and tested for functionality and proper operation during the next immediate season thereafter. The owner must provide full access to the progress inspector within two weeks of the progress inspector's request for such access to perform the progress inspection. For such supplemental inspections, the Department must be notified by the approved progress inspection agency of any unresolved deficiencies in the installed work within 180 days of such supplemental inspection.	After installation and prior to final electrical and construction inspection, except that for controls with seasonally dependent functionality, such testing must be performed before signoff for issuance of a Final Certificate of Occupancy	Approved construction documents, including control system narratives; ASHRAE Guideline 1: The HVAC Commissioning Process where applicable	C403, C404, C406; ASHRAE 90.1 – 6.3, 6.4, 6.5, 6.6, 7.4, 7.5, Appendix I	X	

Inspection / Test	Periodic (minimum)	Reference Standard (See ECC Chapter C5) or Other Criteria	ECC or Other Citation	Inspection Required	
				YES	NO
IIB Continuation					
IIB5 HVAC-R and service water piping design and insulation: Installed piping insulation must be visually inspected to verify proper insulation placement and values. Service hot water distribution systems must be inspected to verify the supply of heated water.	After installation and prior to closing shafts, ceilings and walls	Approved construction documents;	C403.11, C404.4, C404.5; MC 603.9; ASHRAE 90.1 – 6.3, 6.4.4, 6.8.2, 6.8.3; 7.4.3	X	
IIB6 Duct leakage testing, insulation and design: For duct systems designed to operate at static pressures in excess of 3 inches w.g. (747 Pa), representative sections, as determined by the progress inspector, totaling at least 25% of the duct area, must be tested to verify that actual air leakage is below allowable amounts. Installed duct insulation must be visually inspected to verify proper insulation placement and values. Joints, longitudinal and transverse seams and connections in ductwork must be visually inspected for proper sealing.	After installation and sealing and prior to closing shafts, ceilings and walls	Approved construction documents; SMACNA HVAC Air Duct Leakage Test Manual; SMACNA Duct Construction Standards, Metal and Flexible	C403.11; ASHRAE 90.1 – 6.4.4.2.2		X
IIC Electrical Power and Lighting Systems					
IIC1 Metering: The presence and operation of all required meters for monitoring total electrical energy usage and/or total fuel use, system energy usage, tenant energy usage, or electrical energy usage in the building, in individual dwelling units, or in tenant spaces must be verified by visual inspection.	Prior to final electrical and construction inspection	Approved construction documents	C405.5, C405.11, C405.12; ASHRAE 90.1 – 8.4.3, 8.4.5, 8.4.6, 10.4.5	X	
IIC2 Lighting in dwelling units: Lamps in permanently installed lighting fixtures must be visually inspected to verify compliance with high-efficacy requirements	Prior to final electrical and construction inspection	Approved construction documents	C405.1; ASHRAE 90.1-9.1.1	X	
IIC3 Interior lighting power: Installed lighting must be verified for compliance with the lighting power allowance by visual inspection of fixtures, lamps, ballasts and transformers	Prior to final electrical and construction inspection	Approved construction documents	C405.3, C406; ASHRAE 90.1 – 9.1, 9.2, 9.5, 9.6, 9.7; 1RCNY §101-07(c)(3)(v)(C)4, Appendix I	X	
IIC4 Exterior lighting power: Installed lighting must be verified for compliance with source efficacy and/or the lighting power allowance by visual inspection of fixtures, lamps, ballasts and relevant transformers.	Prior to final electrical and construction inspection	Approved construction documents	C405.4; ASHRAE 90.1 – 9.4.2; 1RCNY §101-07(c)(3)(v)(C)4	X	
IIC5 Lighting controls: Each type of required lighting controls, including: <ul style="list-style-type: none"> occupant sensors manual interior lighting controls light-reduction controls automatic lighting shutoff daylight zone controls sleeping unit controls exterior lighting controls egress illumination controls shall be verified by visual inspection and tested for functionality and proper operation.	Prior to final electrical and construction inspection	Approved construction documents, including control system narratives	C405.2, C406; ASHRAE 90.1 – 9.4.1, 9.4.3, 9.7, Appendix I	X	
IIC6 Electric motors and elevators: Where required by the construction documents for energy code compliance, motor listing or labels must be visually inspected to verify that they comply with the respective energy requirements in the construction documents. Elevators and escalators must be inspected for compliance with regenerative drive requirements.	Prior to final electrical and construction inspection	Approved construction documents	C403.8, C405.6, C405.7, C405.8, C405.9; ASHRAE 90.1 – 8.4.4, 10.4, 10.8		X
IID Other					
IID1 Maintenance information: Maintenance manuals for mechanical, service hot water and electrical equipment and systems requiring preventive maintenance must be reviewed for applicability to installed equipment and systems before such manuals are provided to the owner. Labels required for such equipment or systems must be inspected for accuracy and completeness.	Prior to signoff or issuance of Final Certificate of Occupancy	Approved construction documents, including electrical drawings where applicable; ASHRAE Guideline 4: Preparation of Operating and Maintenance Documentation for Building Systems	C408.1.1, C408.2.5.2, C408.3.2; ASHRAE 90.1 – 4.2.2.3, 6.7.2.2, 6.7.2.3.5.2, 8.7.2, 9.7.2.2, 9.4.3.2.2	X	

NYCECC COMPLIANCE STATEMENT

ENERGY CODE COMPLIANCE STATEMENT

To the best of my knowledge, belief and professional judgement, all work under this application is in compliance with the 2020 New York City Energy Conservation Code, Chapter 4.

HVAC COMMISSIONING:

This project does not require commissioning. All hvac equipment and systems installed shall not require commissioning report. Start up and programming in the field shall be part of the balancing process.
 Cooling load: 192,000 BTU/HR
 Heating load: 384,894 BTU/HR

LIGHTING & POWER COMMISSIONING:


As per C408.3 prior to passing final inspection, the approved agency shall provide evidence that the lighting control systems have been tested to ensure that control hardware and software are calibrated, adjusted, programmed and in proper working condition in accordance with the construction documents and manufacturer's instructions.

PROJECT **32**
 32 EAST 29TH STREET
 BROOKLYN, NY 11226

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Danalys Nazario

 APPROVED
 Under Directive 2 of 1975
 Date: 03/05/2021
 NYC Development Hub

03/05/2020	DOB SUBMISSION
11/25/2020	DOB SUBMISSION
10/22/2020	DOB SUBMISSION

PROJECT
 32 EAST 29TH STREET
 BROOKLYN, NY 11226

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ENERGY CODE INSPECTIONS

PROJECT NO: SEAL & SIGNATURE
 DRAWN BY: REGISTERED ARCHITECT
 CHECKED BY: ROBERT BIANCHI
 PAGE NO. 33 OF 33
 DRAWING NO.
EN-006.00
 STATE OF NEW YORK

D.O.B. #

GENERAL NOTES:

- 1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH 2014 BUILDING CODE OF THE CITY OF NEW YORK AND WITH THE RULES AND REGULATIONS OF ALL LOCAL AGENCIES DEPARTMENTS OR LAWS HAVING JURISDICTION OVER ANY PORTION OR SPECIFIC PHASE OF THE WORK. THE CONTRACTOR SHALL COORDINATE THE WORK WITH PUBLIC UTILITY COMPANIES HAVING JURISDICTION.
2. THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED FOR THE PERFORMANCE OF THE WORK AND PAY ALL FEES IN CONNECTION THEREOF.
3. CONTRACTOR SHALL COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS.
4. THE SIZE AND LOCATION OF ALL EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE SHALL BE VERIFIED BY THE MECHANICAL, ELECTRICAL AND PLUMBING CONTRACTORS. ALL PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.
5. CONTRACTOR SHALL CONFORM TO PROJECT SPECIFICATIONS IN ADDITION TO THESE GENERAL NOTES.
6. THE CONTRACTOR SHALL NOT MAKE DEVIATIONS FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT/ENGINEER.
7. IF THERE IS A DISCREPANCY ON THE CONSTRUCTION DOCUMENTS, THE ARCHITECT / ENGINEER SHALL BE NOTIFIED IMMEDIATELY SO THAT THE DISCREPANCY CAN BE RESOLVED. UNLESS OTHERWISE INDICATED IN WRITING BY THE ARCHITECT/ ENGINEER, THE MORE CONSERVATIVE INTERPRETATION OF THE CONSTRUCTION DOCUMENTS SHALL APPLY.
8. DO NOT SCALE DRAWINGS - WRITTEN DIMENSIONS CONFIRMED BY FIELD CONDITIONS TAKE PRECEDENCE. IF DISCREPANCY ARISES BASED ON FIELD CONDITIONS, CONSULT WITH ARCHITECT/ENGINEER BEFORE PROCEEDING WITH WORK OR ORDERING MATERIALS.
9. (*) AFTER ANY DIMENSION OR ELEVATION ON THESE DRAWINGS DENOTES A DIMENSION OR ELEVATION TO BE VERIFIED WITH THE PROJECT ARCHITECT AND CONFIRMED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. OTHERWISE THE (*) DIMENSION OR ELEVATION IS NOT TO BE USED FOR CONSTRUCTION.
10. ALL SECTIONS AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY FOR THE SAME AND SIMILAR CONDITIONS, UNLESS OTHERWISE SPECIFICALLY NOTED.
11. ANY ITEM OF WORK NECESSARY FOR PROPER COMPLETION OF CONSTRUCTION, WHICH IS NOT SPECIFICALLY COVERED ON THE DRAWINGS OR IN THE SPECIFICATIONS, SHALL BE CONSIDERED INCLUDED IN THIS WORK AND SHALL BE PERFORMED IN A MANNER DEEMED GOOD PRACTICE OF THE TRADE INVOLVED.
12. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE SAFETY OF THE PUBLIC AND PROPERTY DURING CONSTRUCTION OPERATIONS AND UNTIL COMPLETION OF ALL WORK.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTION AND MISALIGNMENT.
14. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR "MEANS & METHODS" OF CONSTRUCTION.
15. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE PERFORMANCE OR THE WORK OF THE GENERAL CONTRACTOR, OWNER OR ANY OTHER SUBCONTRACTORS NOR SHALL HE GUARANTEE THEIR PERFORMANCE.
16. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IF HE OR SHE CANNOT COMPLY WITH ALL REQUIREMENTS.
17. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CHANGES TO THIS PROJECT MADE BY OWNER, GENERAL CONTRACTOR OR ANY SUBCONTRACTOR OR MATERIAL SUPPLIER UNLESS PROPERLY AUTHORIZED, IN WRITING, BY THE ARCHITECT/ENGINEER.

FOUNDATION NOTES:

- 1. SOIL TESTING, SOIL CLASSIFICATION AND BEARING CAPACITIES, SHALL BE IN ACCORDANCE WITH 2014 BUILDING CODE OF THE CITY OF NEW YORK.
A. EXCAVATION
1. ALL FOOTINGS AND FOUNDATION WALLS SHALL BEAR ON THE SOIL WITH A SAFE BEARING CAPACITY OF 3.0 TONS PER SQ. FT.
2. THE FINISH EXCAVATION FOR FOUNDATIONS SHALL BE NEAT AND TRUE TO LINE WITH ALL LOOSE MATERIAL REMOVED.
3. FOUNDATION EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER, AND SHALL BE CHECKED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER OR INSPECTOR PRIOR TO THE PLACEMENT OF ANY CONCRETE. CONTRACTOR SHALL NOTIFY GEOTECHNICAL ENGINEER OR INSPECTOR WHEN INSPECTION OF EXCAVATION IS READY. GEOTECHNICAL ENGINEER OR INSPECTOR SHALL SUBMIT LETTER OF COMPLIANCE TO OWNER.
4. THE TESTING LAB SHALL SUBMIT COMPACTION REPORTS FOR ALL FILL TO THE ENGINEER PRIOR TO REQUESTING FOUNDATION INSPECTION. ALL LOOSE SOILS AND FILL DIRT, INCLUDING BACKFILL BEHIND RETAINING WALLS, SHALL BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY UNLESS NOTED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS.
5. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN EARTH BANKS.
6. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHED FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
7. BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS. FLOODING WILL NOT BE PERMITTED.
8. BLASTING SHALL CONFORM STRICTLY TO ALL LOCAL AND STATE LAWS, RULES AND REGULATIONS APPLYING THERETO, AND SHALL AVOID EXCESS NOISE AND VIBRATION. AFTER CONCRETE IS PLACED NO BLASTING SHALL BE DONE WITHIN A 50 FT. RADIUS EXCEPT WHEN WRITTEN PERMISSION OF THE ENGINEER OF RECORD IS GIVEN.
9. WHERE EXISTING FOOTING OR FOUNDATION OF ADJACENT PROPERTY IS LOWER THAN ELEVATION SHOWN, NEW FOUNDATIONS ARE TO BE LOWERED TO SAME ELEVATION WHERE NEW FOUNDATION IS LOWER THAN EXISTING FOUNDATIONS CONTRACTOR IS TO UNDERPIN EXISTING FOUNDATION. CONTRACTOR IS TO ESTABLISH EXISTING CONDITIONS BEFORE COMMENCING WORK AND TO NOTIFY THE ENGINEER.
10. ALL UNDERPINNING, SHEETING, SHORING OR OTHER CONSTRUCTION REQUIRED FOR THE SUPPORT OF ADJACENT PROPERTIES BUILDINGS, SIDEWALKS, UTILITIES, ETC., SHALL BE SUBJECT TO CONTROLLED INSPECTION AS REQUIRED BY THE CODE. THE CONTRACTOR SHALL RETAIN A LICENSED PROFESSIONAL ENGINEER ACCEPTABLE TO THE ENGINEER OF RECORD TO PROVIDE THE NECESSARY DESIGN AND THE REQUIRED INSPECTION. THE CONTRACTOR'S PROFESSIONAL ENGINEER SHALL PREPARE AND FILE THE REQUIRED FORMS FOR THE WORK WITH THE BUILDING DEPARTMENT.

B. CONCRETE AND STEEL REINFORCEMENT

- 1. NO CONCRETE FOOTING, FOUNDATION PIER, OR FOUNDATION WALL SHALL BE POURED UNTIL SUBGRADE FOR SAME HAS BEEN APPROVED BY A LICENSED PROFESSIONAL ENGINEER.
2. ALL CONCRETE SHALL BE NORMAL WEIGHT CONDOLED CONCRETE, U.O.N., AND COMPLY WITH A.C.I. BUILDING CODE AND THE 2014 NEW YORK CITY BUILDING CODE.
3. CONCRETE STRENGTH SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
-FOOTINGS, FOUNDATION PIERS, FOUNDATION MAT. 4000 PSI (A.E.)
-BUTTRESSED AND FOUNDATION WALLS 4000 PSI (A.E.)
-FOOTING SEALERS 3000 PSI
-SLAB ON GROUND 4000 PSI (A.E.)
4. ALL STEEL REINFORCEMENT SHALL HAVE AN ULTIMATE TENSILE STRENGTH OF 90,000 PSI AS PER A.S.T.M. A615-83 GRADE 60. THE CONTRACTOR SHALL FURNISH ALL THE NECESSARY CHAIRS, REBARS, TIES, SPACERS, ETC., TO SECURE AND SUPPORT THE REINFORCING WHILE PLACING THE CONCRETE.
5. ALL BARS MARKED CONTINUOUS, SHALL BE LAPPED MIN. 40 DIAMETERS AT SPLICES AND CORNERS EXCEPT AS OTHERWISE SHOWN ON PLANS. LAP CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AND BOTTOM BARS AT SUPPORTS. HOOK TOP BARS AT DISCONTINUOUS ENDS.

- 6. THE MINIMUM CLEAR COVER FOR REINFORCING BARS SHALL BE ONE BAR DIAMETER OR THE VALUES TABULATED BELOW, WHICHEVER IS GREATER:
SLABS: COVER 3/4"
PILASTERS: SURFACE EXPOSED TO EARTH 2" OTHER SURFACES 1 1/2"
FOUNDATION ELEMENTS: FORMED SURFACE 2" SURFACE PLACED AGAINST EARTH 3"
WALLS: SURFACE EXPOSED TO EARTH 2" SURFACE EXPOSED TO WEATHER 1 1/2" OTHER SURFACES 3/4"

- 7. VERTICAL CONSTRUCTION JOINTS IN ALL WALLS SHALL BE USED ONLY IF UNAVOIDABLE, OR UNLESS OTHERWISE NOTED, AND TO BE LOCATED AT LEAST 4'-0" FROM ANY SUPPORTING COLUMN OR WALL OPENING. DISTANCE BETWEEN JOINTS IN WALL SHALL BE ALLOWED AS PER SPECIFICATIONS.
8. IN NO CASE SHALL TRUCKS, BULLDOZERS, OR OTHER HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" FROM ANY FOUNDATION WALL UNLESS APPROVED BY THE ENGINEER.
9. TEMPORARY BRACING SHALL BE PROVIDED FOR ALL BUTTRESSES, WHERE BUTTRESSES DO NOT EXIST OR SPACING BETWEEN BUTTRESSES EXCEED 25 FEET, AND WHERE THE DIFFERENCE IN LEVEL BETWEEN INSIDE AND OUTSIDE GRADE IS MORE THAN 4'-0". INTERMEDIATE BRACING SHALL BE PROVIDED, WHERE RAMPS OCCUR, THE GRADE ELEVATION OUTSIDE OF RAMP WALLS SHALL BE USED IN FIGURING THE DIFFERENCE IN LEVEL. CORNER BUTTRESSES NEED NOT BE BRACED, NO BACKFILLING IS TO BE DONE BEFORE ALL SLABS BRACING WALLS ARE IN PLACE UNLESS APPROVED BY THE ENGINEER. PROVIDE TEMPORARY BRACING FOR ALL PIERS AND SUMP PITS.
10. CONTRACTOR TO INSTALL ALL PIPE SLEEVES, BORED OPENINGS, ANCHOR BOLTS, ETC., AS REQUIRED FOR THE VARIOUS TRADES. WALL POCKETS TO RECEIVE BEAMS AND SLABS SHALL BE PROVIDED AS REQUIRED LAYOUT OF OPENINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.
11. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 3/4" FOR INTERIOR SLABS AND WALL SURFACE; 1 1/2" FOR BEAMS. FOR ALL CONCRETE EXPOSED TO WEATHER AND EARTH FILL, COVER SHALL BE 2"(1 1/2" FOR STIRRUPS). FOR CONCRETE PLACED AGAINST EARTH, MINIMUM COVER SHALL BE 3".
12. ALL SLAB ON GROUND TO BE PLACED IN ALTERNATE PANELS NOT EXCEEDING 1,200 SQ. FT. BETWEEN KEYS CONSTRUCTION JOINTS, BUT NO DIMENSION OF THE PANELS IS TO EXCEED 40 FEET. COORDINATE LOCATION OF THE JOINTS WITH ARCH. DRAWINGS.
13. THE CONTRACTOR MUST SUBMIT REINFORCING SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW. NO CONSTRUCTION IS TO BE STARTED UNTIL THE SHOP DRAWINGS ARE REVIEWED BY THE ENGINEER.
14. THE STRUCTURAL ENGINEER OR HIS FIELD QUALIFIED REPRESENTATIVE MUST CHECK AND APPROVE ALL STEEL REINFORCING PRIOR TO CONCRETE PLACEMENT.

C. CODES AND TESTS

- 1. THIS STRUCTURE HAS BEEN DESIGNED UNDER THE PROVISIONS OF THE NEW YORK CITY BUILDING CODE AS AMENDED AND A.C.I. 318-11.
2. ALL CONTROLLED CONCRETE SHALL COMPLY WITH THE A.C.I. 318-11 BUILDING CODE. APPLICATION FOR CONTROLLED CONCRETE WITH CONCRETE TESTS AND CURVES OF TESTS FOR THE PRELIMINARY DESIGN MIX PREPARED BY SPACE AN APPROVED LABORATORY MUST BE SUBMITTED TO THE ENGINEER FOR FILING WITH THE BUILDING DEPARTMENT. NO CONCRETE SHALL BE PLACED WITHOUT THE DESIGN MIX BEING APPROVED BY THE BUILDING DEPARTMENT.
3. DESIGN AND CONSTRUCTION OF FORMWORK IS TO COMPLY WITH THE A.C.I. 318-11 BUILDING CODE AND NEW YORK CITY BUILDING CODE AS AMENDED.

CONTROLLED INSPECTION NOTES:

- 1. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN ON BEHALF OF THE OWNER THE SERVICES OF A 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.
2. THE CONTRACTOR'S ENGINEER SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. HE SHALL PROVIDE INSPECTION SERVICES FOR THE FOLLOWING SPECIAL INSPECTION ITEMS:

Table with 3 columns: ITEM, CODE/SECTION, and YES/NO checkboxes. Rows include Structural Steel - Welding, Concrete - Cast-in-place, Masonry, Wood - Installation of High-load Diaphragms, Subsurface Conditions - Fill Placement & In-place Density, Deep Foundation Elements, Helical Piles, Vertical Masonry Foundation Elements, Wall Panels, Curtain Walls, and Veneers, Structural Stability - Existing Buildings, Excavations - Sheet piling, Shoring, and Bracing, Underpinning, Mechanical Demolition, Flood Zone Compliance, Post-installed Anchors, Seismic Isolation Systems, Concrete Design Mix, Concrete Sampling and Testing, Footing and Foundation, and Structural Wood Frame.

- 3. THE INSPECTION 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.
4. THE INSPECTION ENGINEER SHALL MAINTAIN A LOG IN HIS OR HER OFFICE WHICH INCLUDES THE FOLLOWING INFORMATION:
I. ADDRESS OF THE PREMISES, JOB NUMBER, CONTRACTOR NAME AND ADDRESS;
II. DATE AND TIME OF EACH INSPECTION INCLUDING:
A. NAMES OF PERSONNEL WHO INSPECTED THE SITE;
B. ANY SIGNIFICANT OBSERVATIONS OR INSTRUCTIONS GIVEN RELATING TO ANY OF THE FOLLOWING:
(1). DEVIATIONS FROM THE CONTRACT DOCUMENTS.
(2). ANTICIPATED FIELD CONDITIONS;
(3). PROPER EXECUTION OF THE WORK;
(4). GOOD ENGINEERING PRACTICE;
(5). SAFE JOB-SITE CONDITIONS;
(6). PRECAUTIONS TAKEN TO MAINTAIN SAFE CONDITIONS IF WORK IS STOPPED FOR ANY REASON.
5. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN ON BEHALF OF THE OWNER THE SERVICES OF THE INSPECTION 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.
6. THE INSPECTION ENGINEER SHALL REPORT UNSAFE CONDITIONS TO THE DEPARTMENT OF BUILDINGS AND/OR ANY OTHER AFFECTED PARTIES OR AGENCIES.
7. UPON REQUEST OF THE DEPARTMENT, THE INSPECTION ENGINEER SHALL MAKE AVAILABLE FOR REVIEW BY THE DEPARTMENT DOCUMENTS AND THE LOG DESCRIBED ABOVE.

Table with 2 columns: NO. and DATE. Rows for revision tracking.



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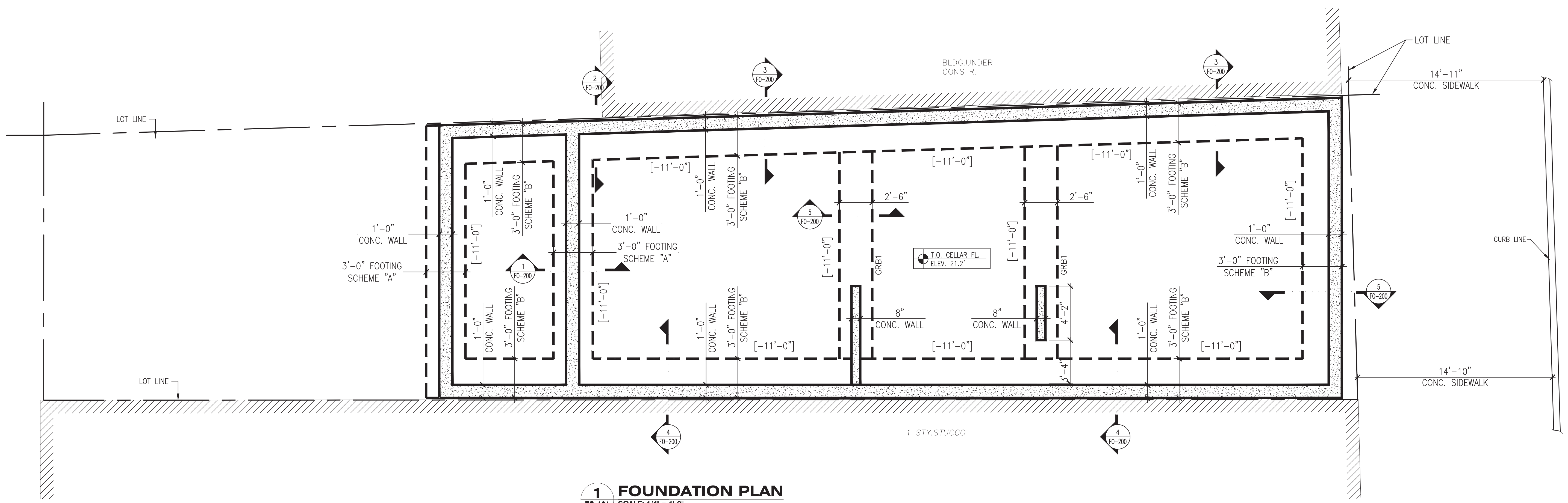
Professional Engineer Seal for Danalys Nazario, License No. 11226, State of New York.

PROJECT: 32 EAST 29TH STREET, BROOKLYN, NY 11226

CLIENT: PROJECT No. 20-67, DRAWING TITLE: FOUNDATION GENERAL NOTES

DOB NOW JOB # B00414101-11, DRAWN BY T.S., CHECKED BY R.N., DATE 10-16-2020, SCALE AS NOTED

SHEET No. FO-100.00



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

- NOTES:**
1. U.O.N. ON PLAN, T.O. CELLAR SLAB: 39.07'
 2. U.O.N. ON PLAN, B.O. FOOTING: 37.74'
 3. AVERAGE BASE GRADE ELEVATION: 48.74' SEE SURVEY.
 4. CONTRACTOR TO COORDINATE OPENINGS IN FLOORS AND WALLS WITH ARCHITECTURAL & MECHANICAL PLANS.
 5. CONTRACTOR SHALL CONTACT ENGINEER OF RECORD IF EXISTING CONDITION DIFFER FROM PLAN.
 6. [X'-X"] INDICATES BOTTOM OF FOOTING ELEVATION (FROM BASE GRADE)

STRIP FOOTING SCHEDULE $f'_c=4,000$ psi NORMAL WEIGHT CONCRETE
 $f_y=60,000$ psi DEFORMED UNCOATED BARS, U.O.N.

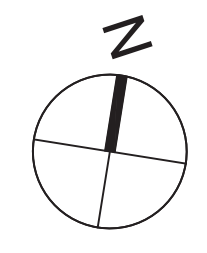
FOOTING SCHEME	FOOTING WIDTH "B" (ft)	FOOTING DEPTH "D" (ft)	REINFORCEMENT		FOOTING SCHEME
			ALONG WALL "R1"	CROSS WALL "R2"	
3.0 tsf SOIL BEARING CAP					
A	3'-0"	1'-4"	(5) - #5	#5 @ 12" O.C.	SCHEME "A"
B	3'-0"	1'-4"	(5) - #5	#5 @ 12" O.C.	SCHEME "B"

NOTE:
1. WALL REINFORCEMENT & DOWELS SEE APPLICABLE SECTIONS
2. FOR DIMENSIONS SEE ARCHITECTURAL DRAWINGS.

GRADE BEAM SCHEDULE $f'_c=4,000$ psi NORMAL WEIGHT CONCRETE
 $f_y=60,000$ psi DEFORMED UNCOATED BARS, U.O.N.

BEAM	BEAM DEPTH "D" (in)	BEAM WIDTH "B" (in)	REINFORCEMENT				BEAM SCHEME
			TOP REBAR	BOTTOM REBAR	SIDE REBAR (EACH FACE)	STIRRUP	
GRB1	16"	30"	(5)-#5	(5)-#5	-	#4 @ 6" O.C.	

EAST 29TH STREET



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APPROVED Under Directive 2 of 18
Date: 03/05/2021
NYC Development

32 EAST 29TH STREET
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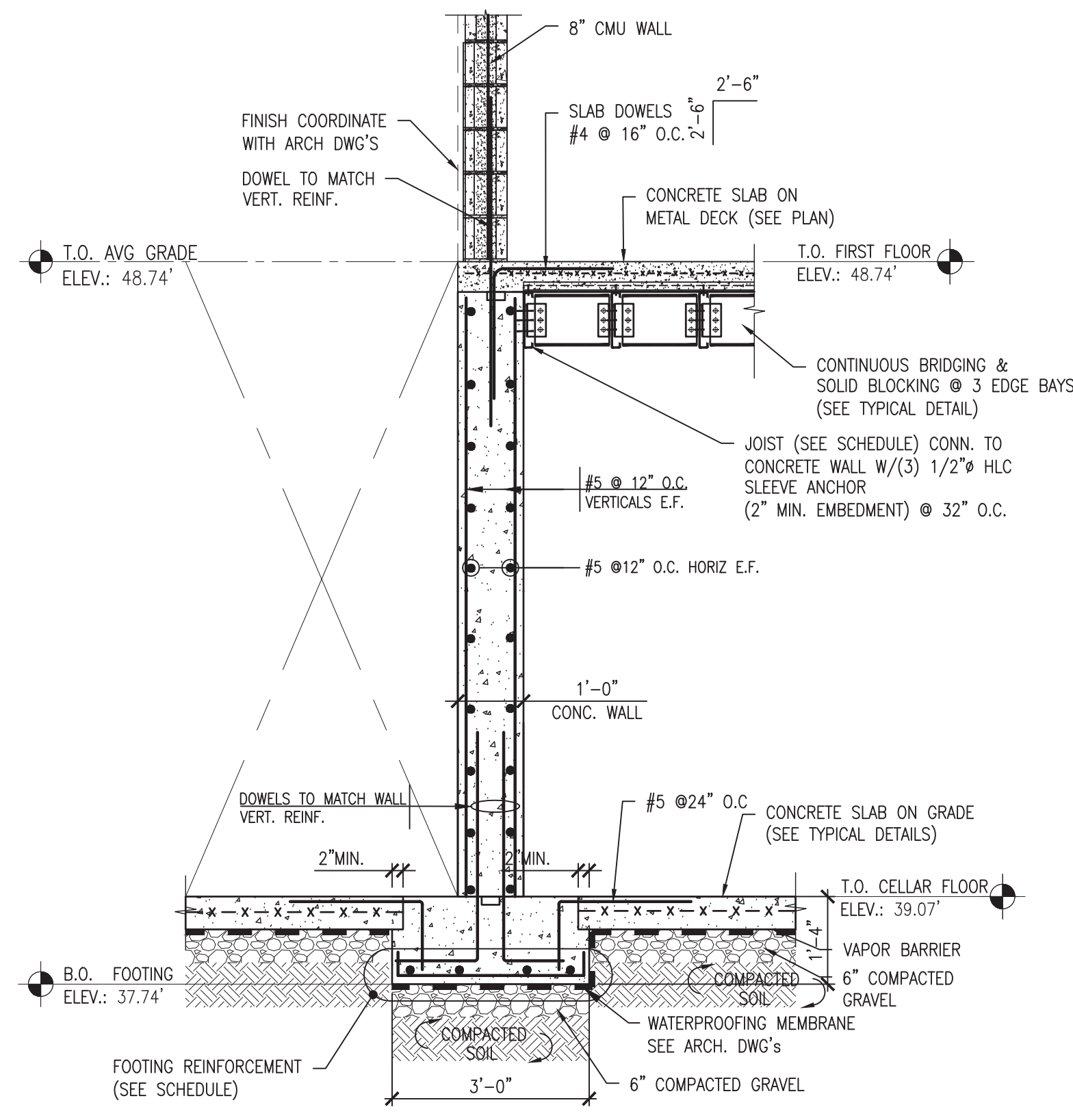
PROJECT No. **20-67**

DRAWING TITLE
FOUNDATION PLANS

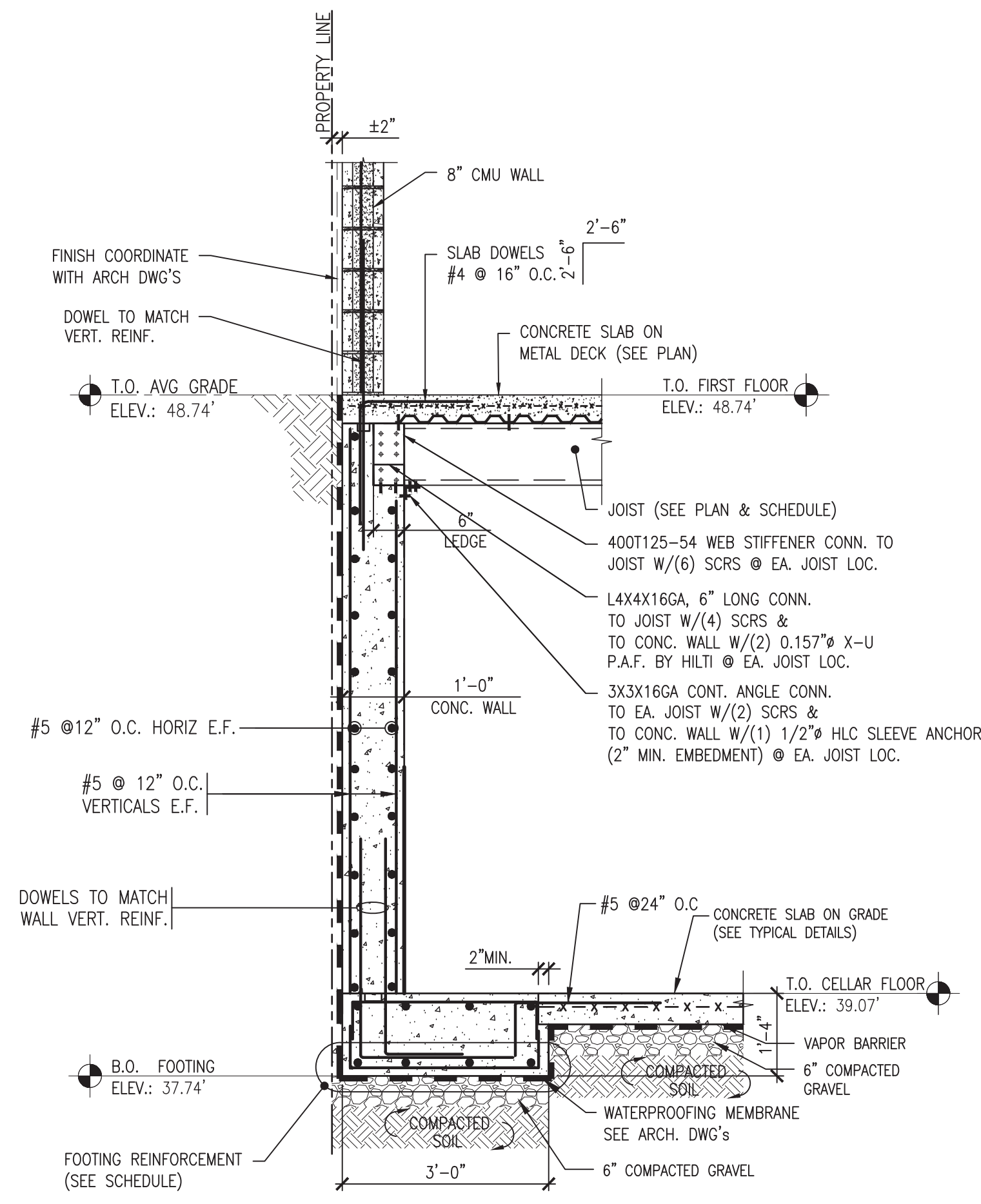
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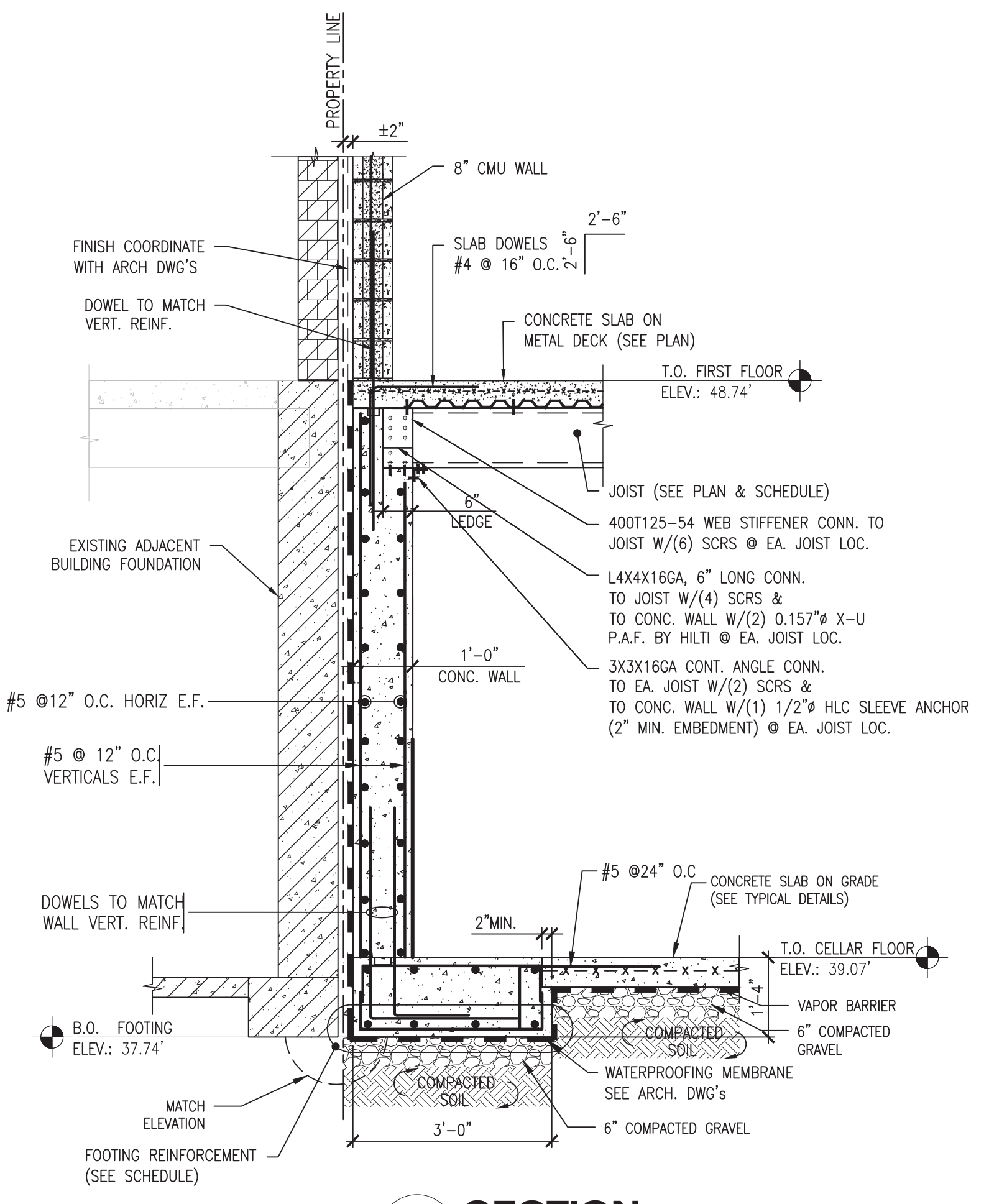
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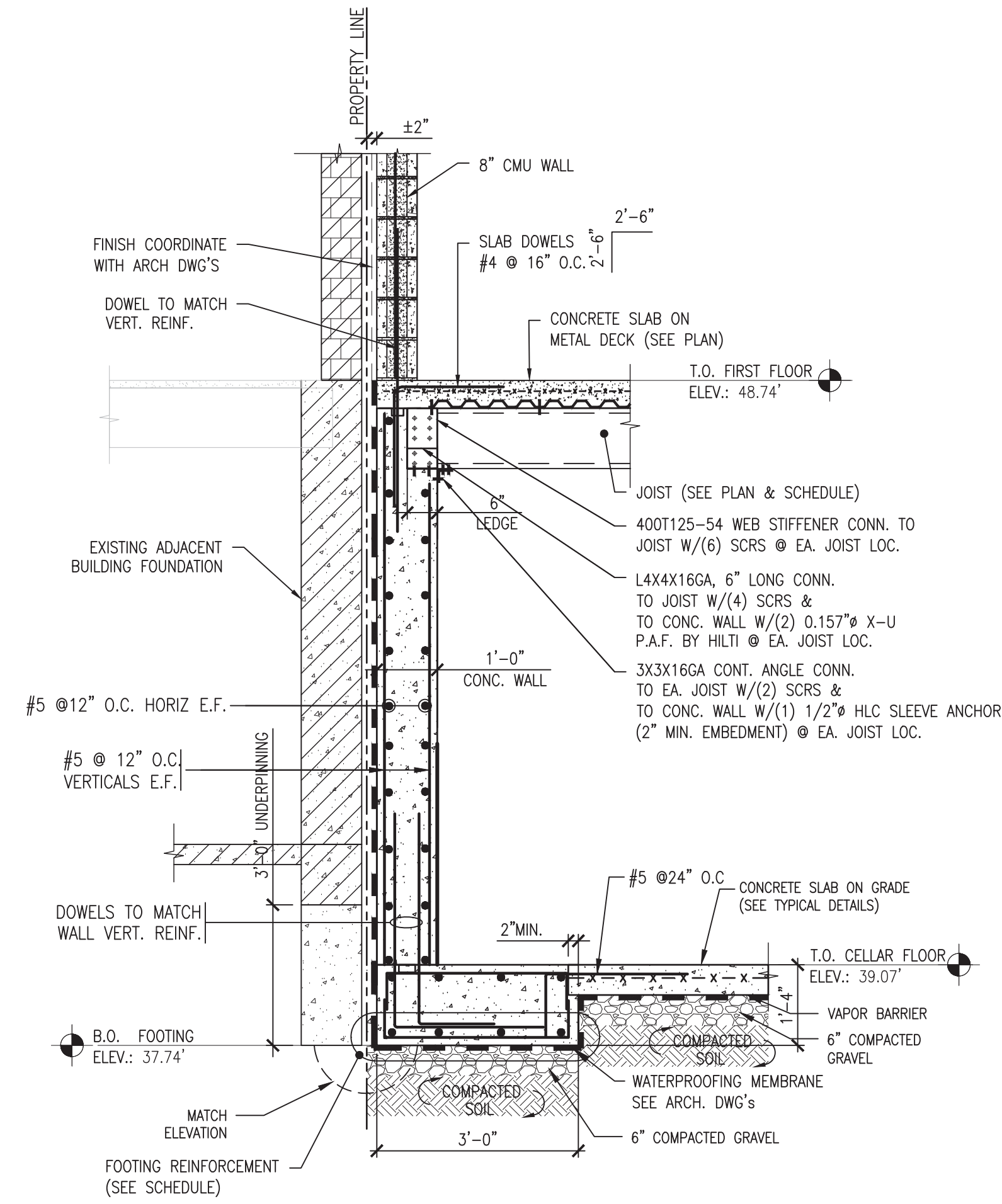
1 SECTION
FO-200 SCALE: 1/2" = 1'-0"



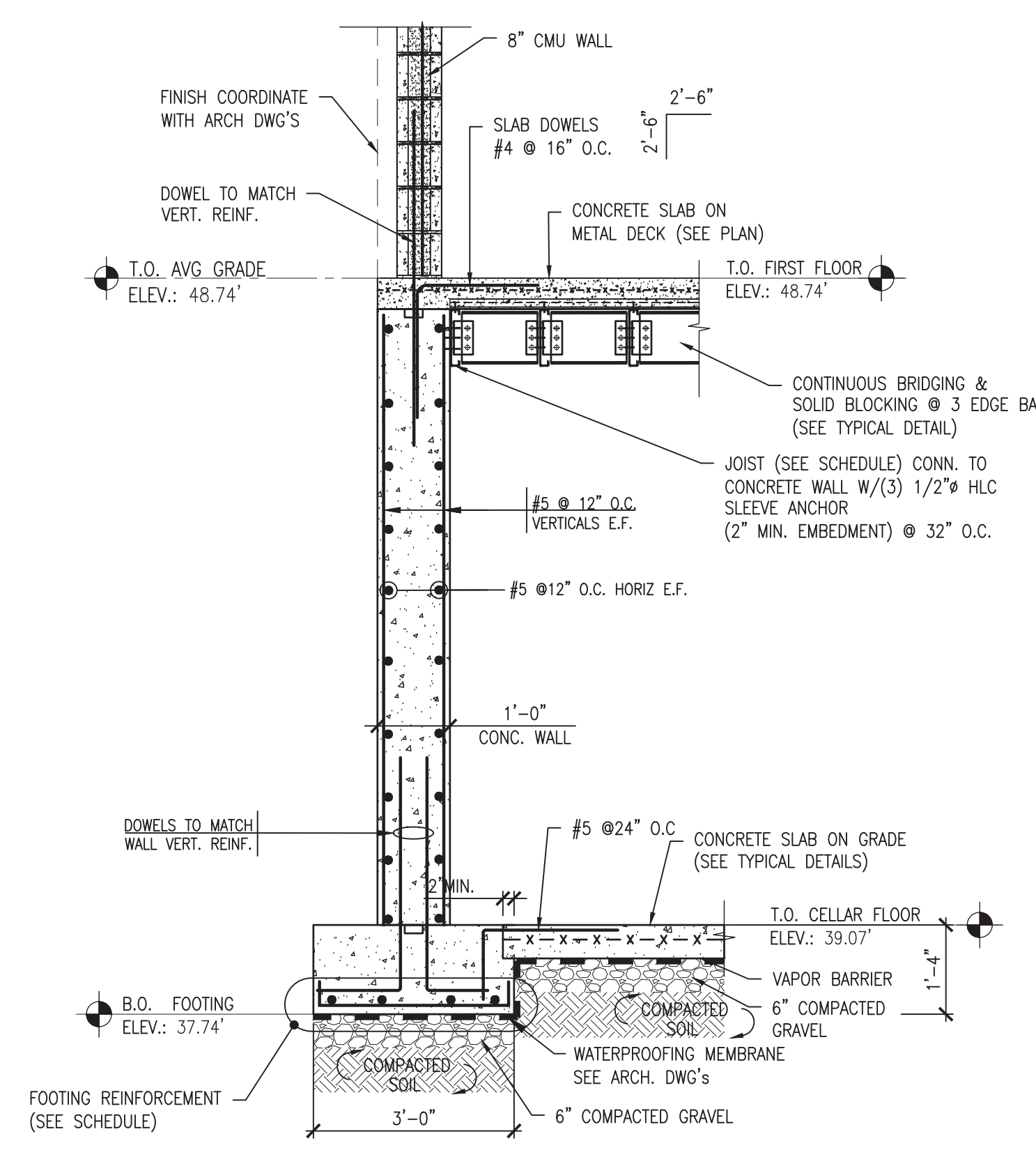
2 SECTION
FO-200 SCALE: 1/2" = 1'-0"



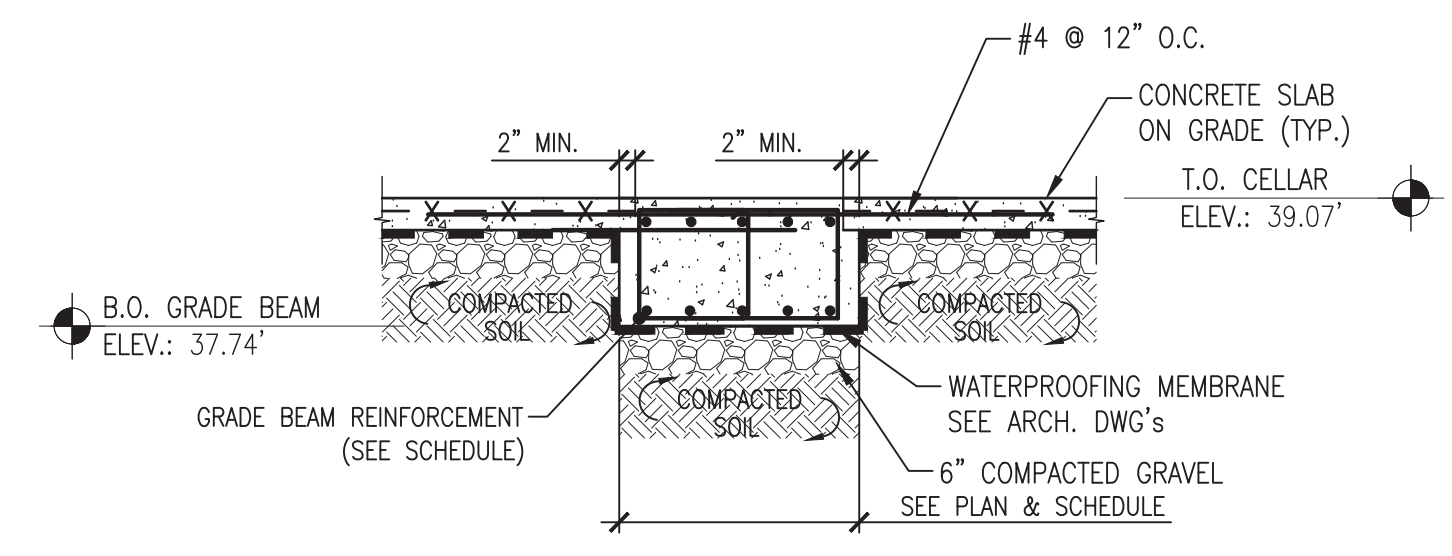
3 SECTION
FO-200 SCALE: 1/2" = 1'-0"



4 SECTION
FO-200 SCALE: 1/2" = 1'-0"



5 SECTION
FO-200 SCALE: 1/2" = 1'-0"



6 SECTION
FO-200 SCALE: 1/2" = 1'-0"

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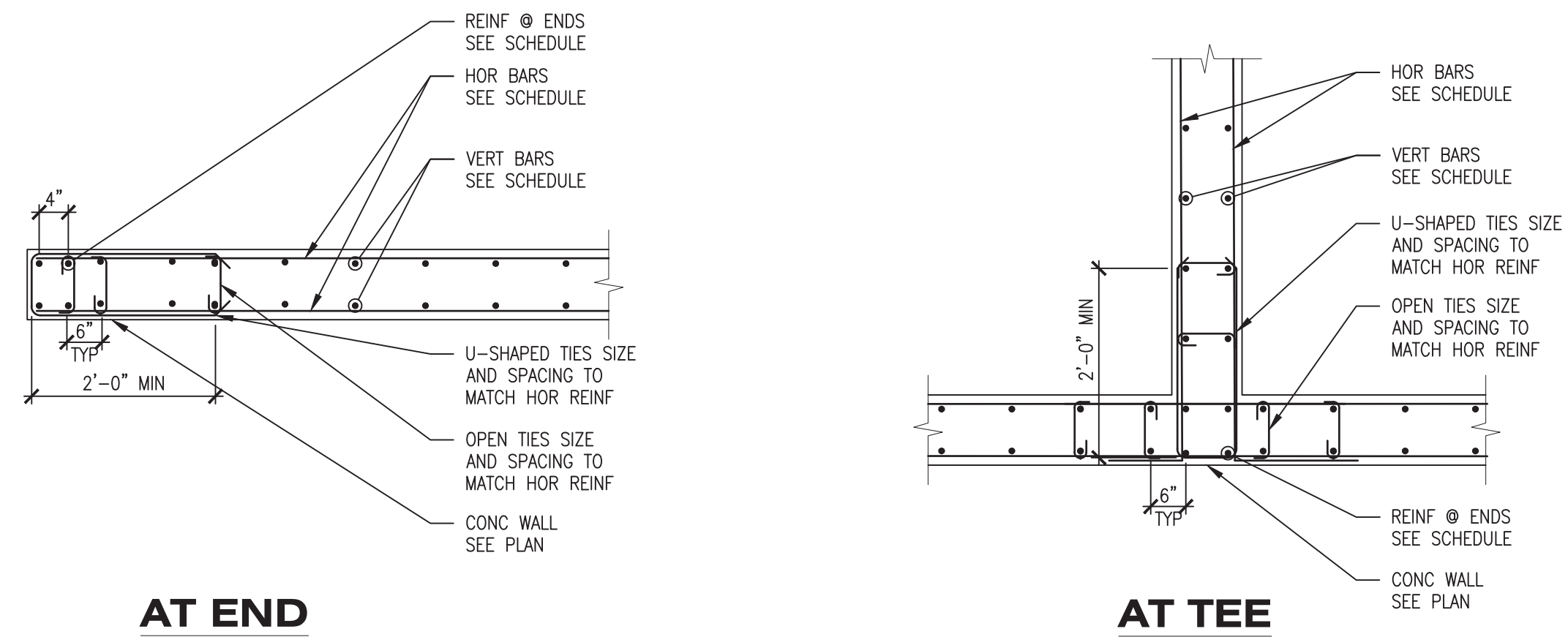
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Under Directive 2 of 18
Date: 03/05/2021
NYC Development

PROJECT
32 EAST 29TH STREET
BROOKLYN, NY 11226

CLIENT
PROJECT No.
20-67
DRAWING TITLE
FOUNDATION SECTIONS

DOB NOW JOB # B00414101-11
DRAWN BY T.S.
CHECKED BY R.N.
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SCALE AS NOTED
SHEET No.

FO-200.00



TYPICAL DETAILS AT SHEAR WALL ENDS AND TEES

CONCRETE SHEAR WALL SCHEDULE					
f' _c =4,000 psi NORMAL WEIGHT CONCRETE f _y =60,000 psi DEFORMED UNCOATED BARS, U.O.N.					
START FLOOR	WALL NO.	TYPICAL VERTICAL REINFORCING	TYPICAL HORIZONTAL REINFORCING	REINF AT ENDS	REINF AT CORNERS
CELLAR	CSW1	#5 @ 12"	#5 @ 12"	(2) #5	(2) #5

SHEARWALL SCHEDULE NOTES:

- SEE FLOOR PLANS FOR SHEAR WALL LOCATIONS AND THICKNESSES.
- VERIFY OPENINGS IN SHEARWALLS WITH ARCHITECTURAL & APPROVED ELEVATOR SHOP DRAWINGS.
- BARS MINIMUM 4' - 0" PAST THE OPENINGS.
- U.O.N. PROVIDE (4)- #5 VERTICALS (TWO EACH FACE) AT 5" O.C. ON EACH SIDE OF WINDOW / DOOR OPENINGS. SIZE OF VERTICALS TO MATCH SIZE OF VERTICAL REINFORCING AT ENDS / CORNERS. PROVIDE VERTICALS FOR FULL STORY HEIGHT AND WHERE POSSIBLE EXTEND MINIMUM 64 x BAR DIAMETER INTO STORY ABOVE AND BELOW. HOOK VERTICALS AT DISCONTINUOUS ENDS.
- TYPICAL VERTICAL & HORIZONTAL REINFORCING IN 8" THICK WALLS SHALL BE STAGGERED.
- U.O.N. LAP SPLICES FOR TYPICAL VERTICAL & HORIZONTAL REINFORCING SHALL BE STANDARD TENSION SPLICES BUT NOT LESS THAN 48 X BAR DIAMETER.
- U.O.N. LAP SPLICES FOR VERTICAL REINFORCING AT ENDS, CORNERS, AND TEES SHALL BE CLASS B TENSION SPLICES BUT NOT LESS THAN 64 x BAR DIAMETER.



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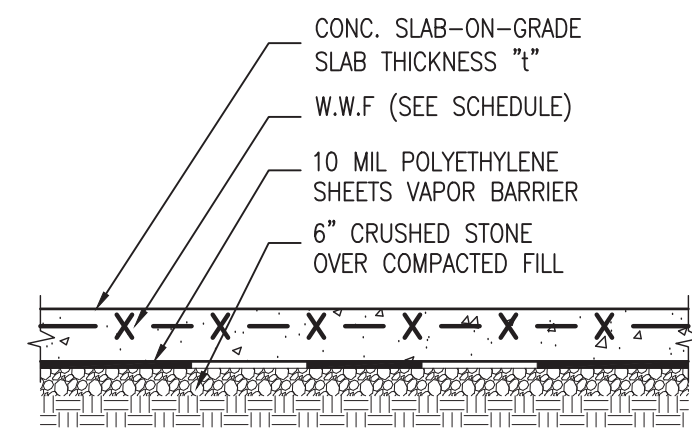
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DRAWING TITLE
CONCRETE SHEAR WALL SCHEDULE

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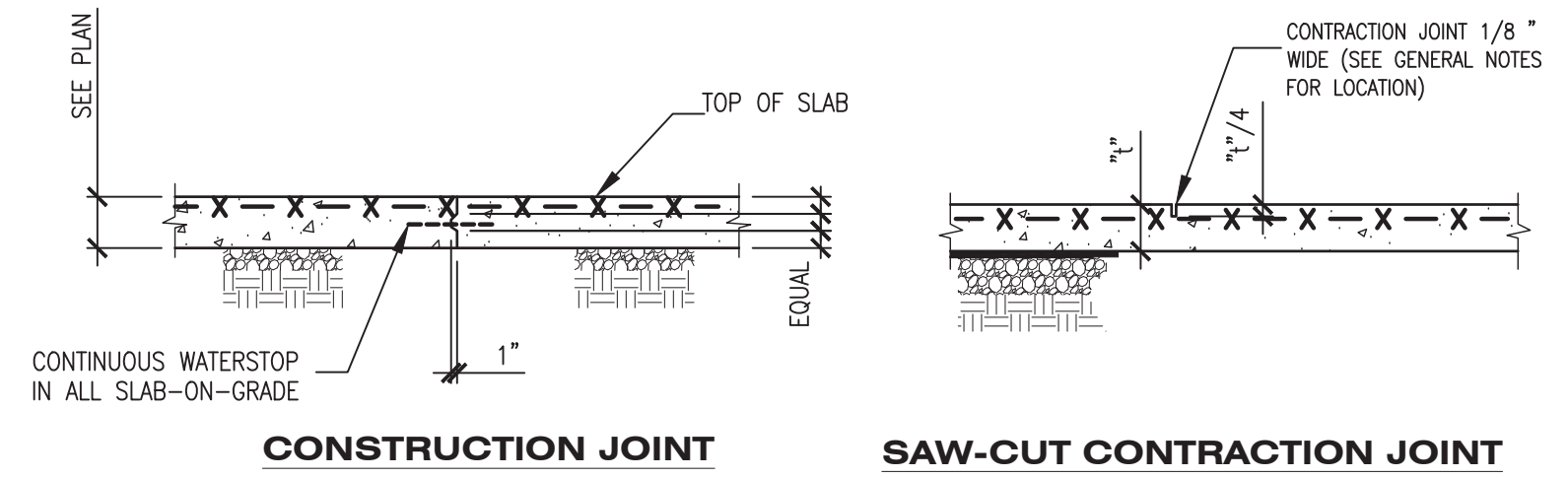


SLAB REINFORCEMENT

SLAB ON GRADE REINFORCEMENT SCHEDULE

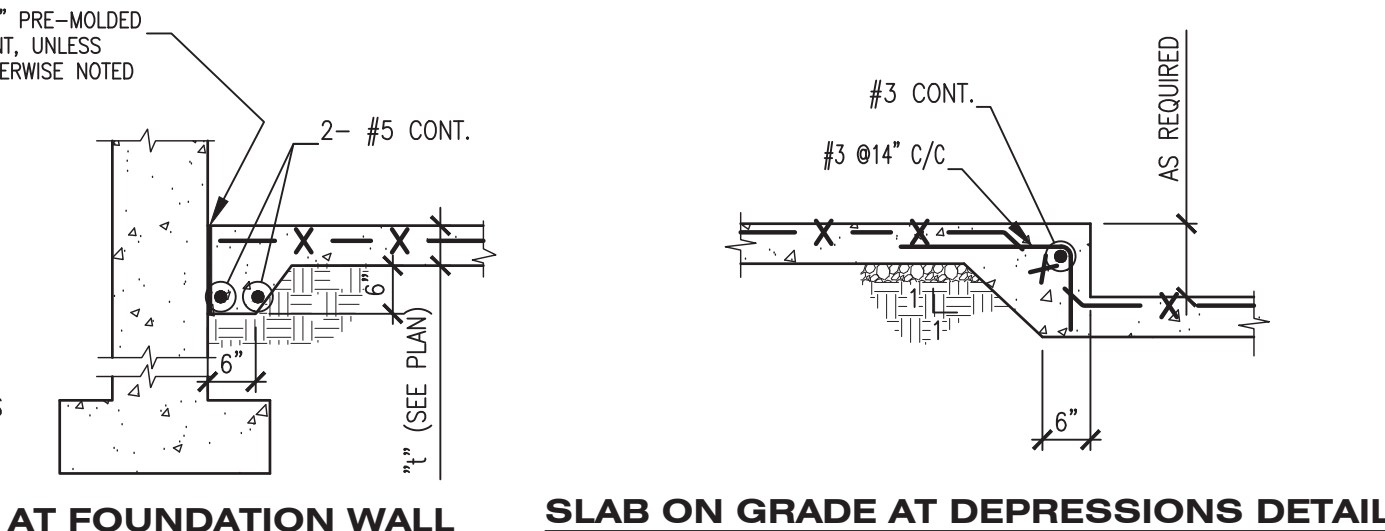
SLAB DEPTH (t)	WELDED WIRE FABRIC
6"	4x4 W4.0x4.0
4"	4x4 W2.9x2.9

1. ALL SLAB ON GROUND SHALL BE POURED IN AN ALTERNATING STRIP SYSTEM TO ALLOW PROPER SHRINKAGE. POUR PANELS TO BE BOUNDED BY CONTROL AS SHOWN IN PLANS.
2. CONTRACTOR MAY USE SAWED CONTROL JOIST, SUBJECT TO APPROVAL.
3. SPLICE OF W.W.F. SHALL BE NOT LESS THAN DISTANCE BETWEEN TWO OUTERMOST CROSS WIRES OF EACH FABRIC SHEET PLUS 2".
4. COORDINATE ALL SLABS WITH ARCHITECTURAL DETAILS, PAVING STONES, ETC.



CONSTRUCTION JOINT

SAW-CUT CONTRACTION JOINT



AT FOUNDATION WALL

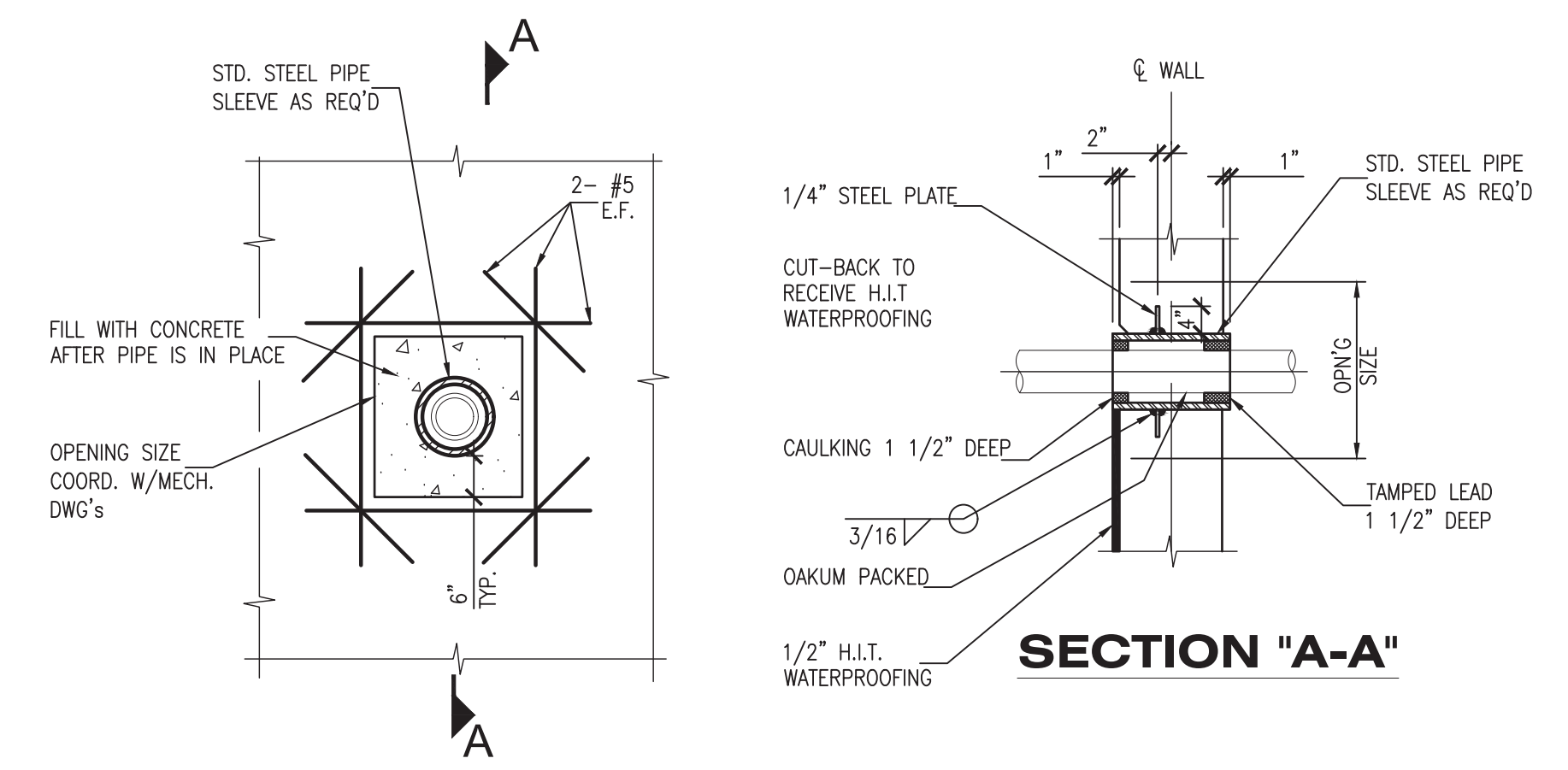
SLAB ON GRADE AT DEPRESSIONS DETAIL

SLAB ON GRADE TYPICAL DETAILS
N.T.S.

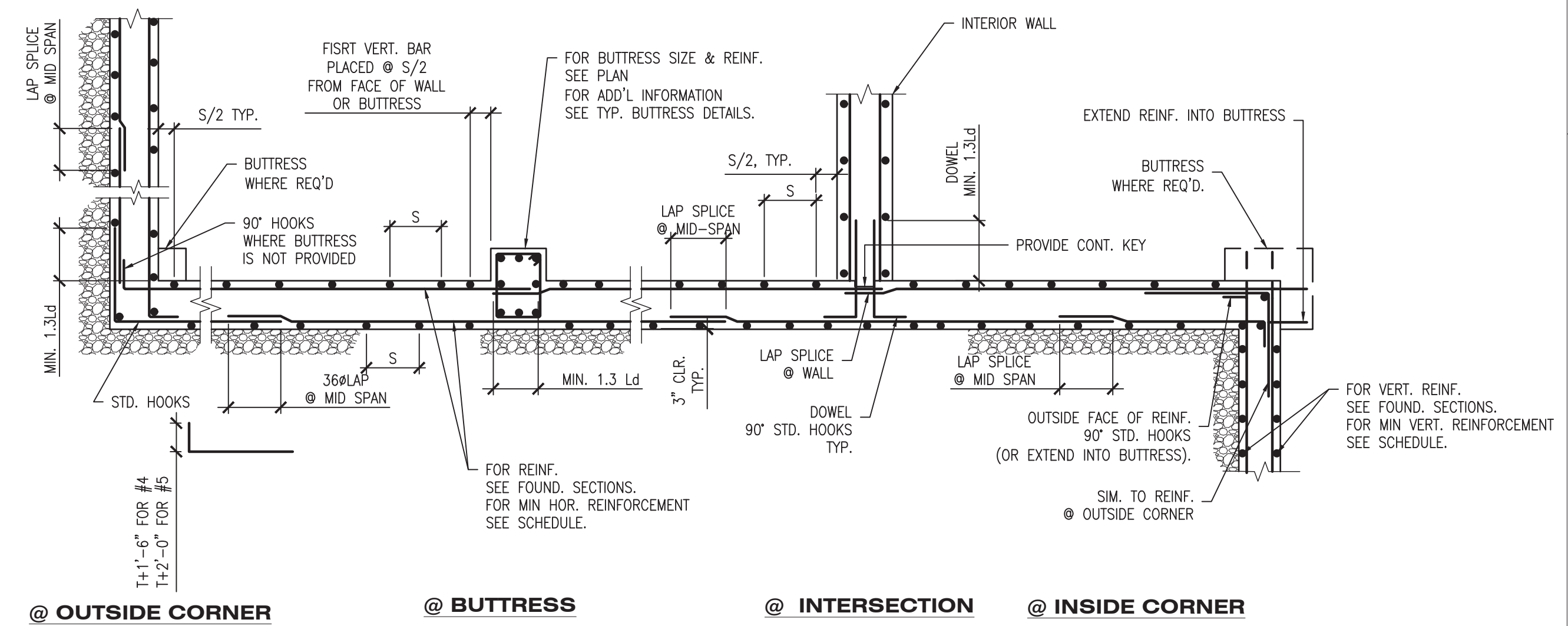
TENSION DEVELOPMENT AND LAP SPLICE LENGTHS

CONCRETE STRENGTH	BAR SIZE	LAP CLASS	4000 PSI		6000 PSI		
			TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	
			CASE 1	CASE 2	CASE 1	CASE 2	
#3	A	19	24	15	22	15	23
	B	24	36	19	28	20	31
#4	A	23	37	19	28	20	31
	B	32	48	25	37	26	40
#5	A	21	47	24	36	25	38
	B	40	60	31	47	33	50
#6	A	32	56	29	43	31	46
	B	48	72	37	56	40	59
#7	A	54	81	42	53	44	66
	B	70	106	54	81	58	86
#8	A	62	93	49	71	51	76
	B	85	121	62	93	66	98
#9	A	70	105	54	81	57	85
	B	91	136	70	105	74	111
#10	A	78	118	61	91	64	96
	B	102	153	79	118	83	125
#11	A	87	131	67	101	71	107
	B	113	170	87	131	93	139

- NOTES:**
1. USE TENSION DEVELOPMENT LENGTH, $L_d =$ TENSION LAP CLASS "A" IN THE TABLE.
 2. USE LAP CLASS "B" UNLESS CLASS "A" IS SPECIFIED FOR PARTICULAR SITUATIONS ELSEWHERE ON DRAWINGS.
 3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW THE BAR, CAST AT THE SAME TIME AS THE CONCRETE DIRECTLY SURROUNDING THE BAR.
 4. CASES "1" AND "2" ARE DEFINED AS FOLLOWS:
 - 4.1 BEAM OR COLUMN:
 - 4.1.1 CASE 1: CENTER-CENTER SPACING 2.0 ϕ
 - 4.1.2 CASE 2: CENTER-CENTER SPACING 2.0 ϕ
 - 4.2 ALL OTHERS:
 - 4.2.1 CASE 1: COVER 1.0 ϕ AND O.C. SPACING 3.0 ϕ
 - 4.2.2 CASE 2: COVER 1.0 ϕ AND O.C. SPACING 3.0 ϕ
 5. FOR LIGHTWEIGHT AGGREGATE MULTIPLY TABULATED VALUES BY 1.3.

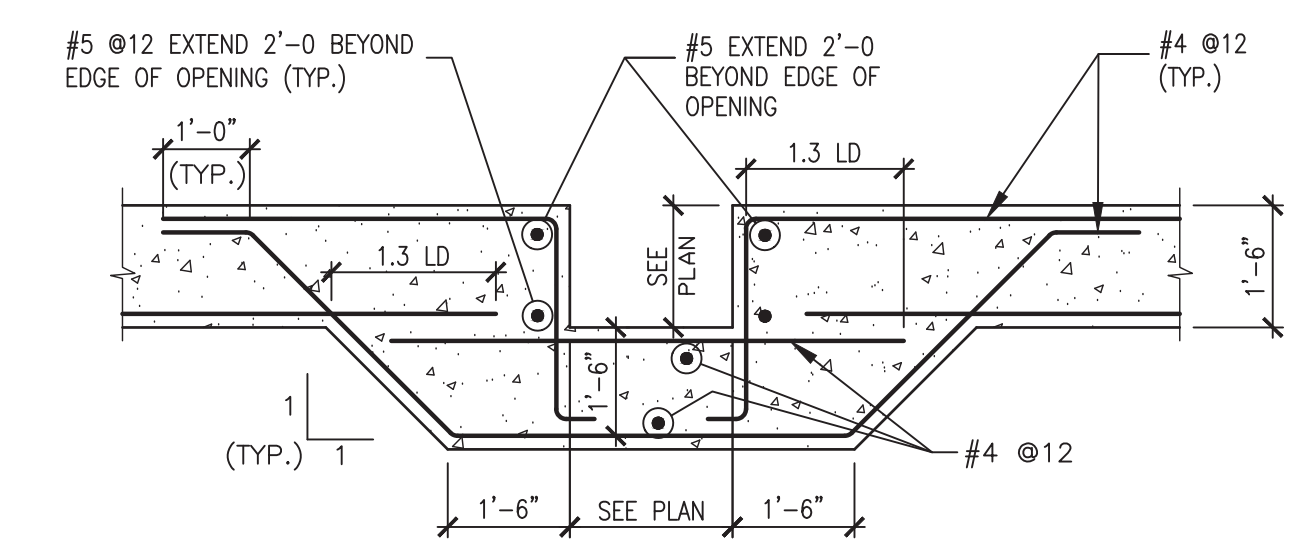


DETAIL OF WATERPROOFED SLEEVE THRU WALL WITH H.I.T. WATERPROOFING

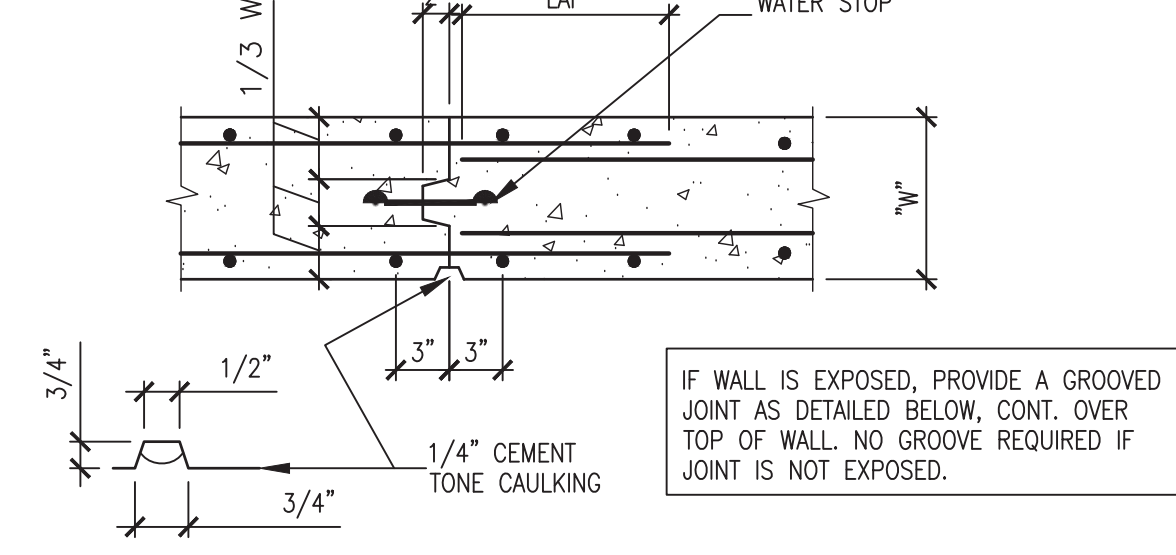


HORIZONTAL SECTION SHOWING DETAIL OF PLACING WALL REINFORCEMENT

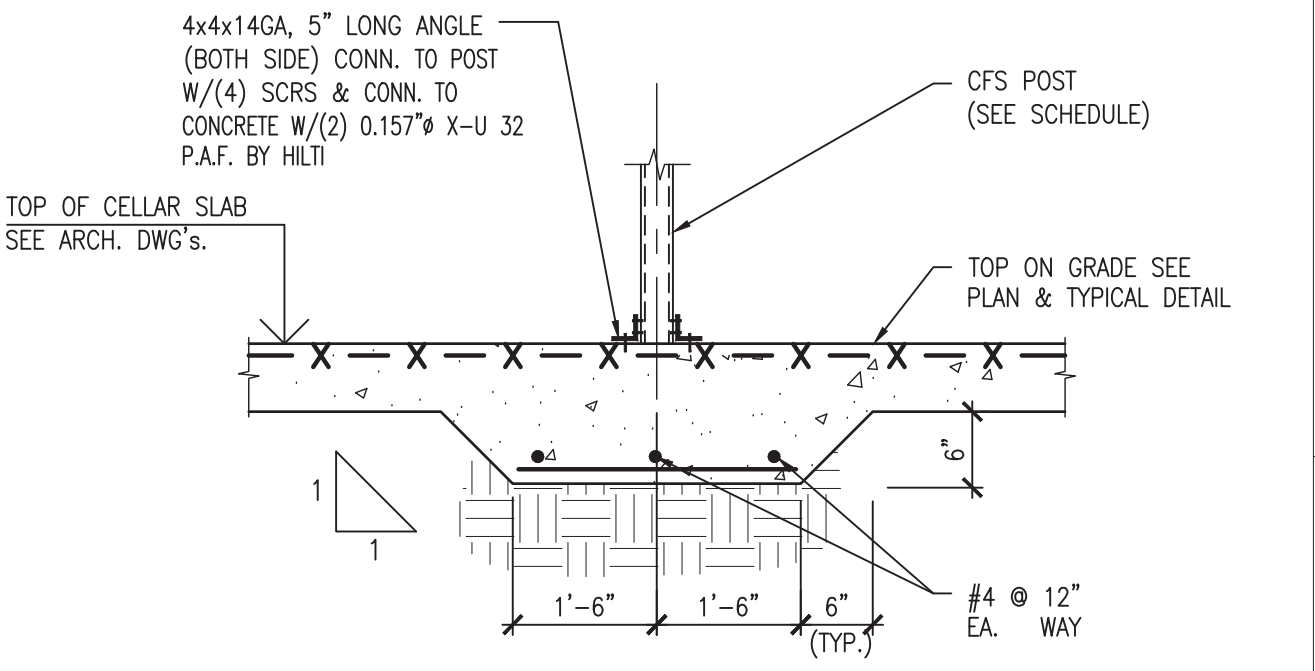
- NOTES:**
- VERT. CONSTRUCTION JOINT IS NOT SHOWN FOR CLARITY. SEE TYP. CONSTRUCTION JOINT DETAILS FOR MORE INFORMATION.



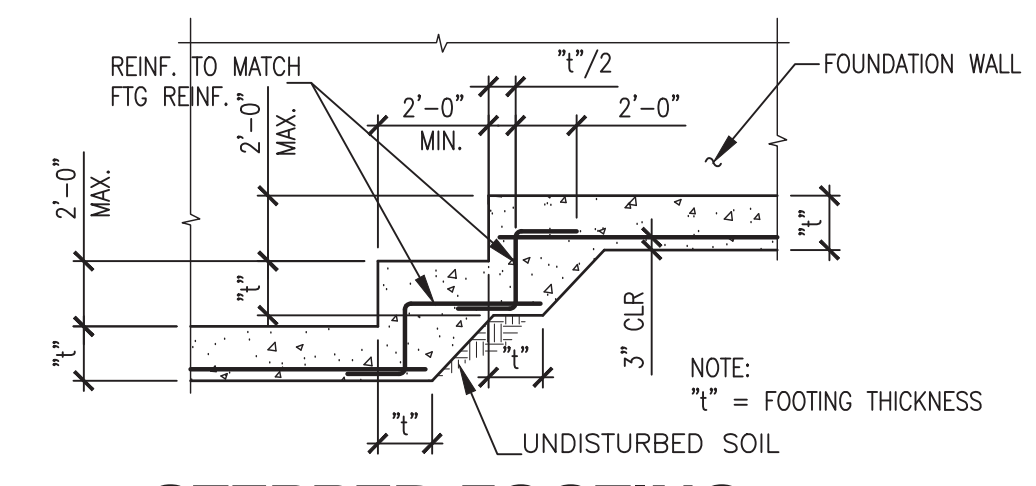
TYPICAL DETAIL AT SUMPS & TRENCHES
N.T.S.



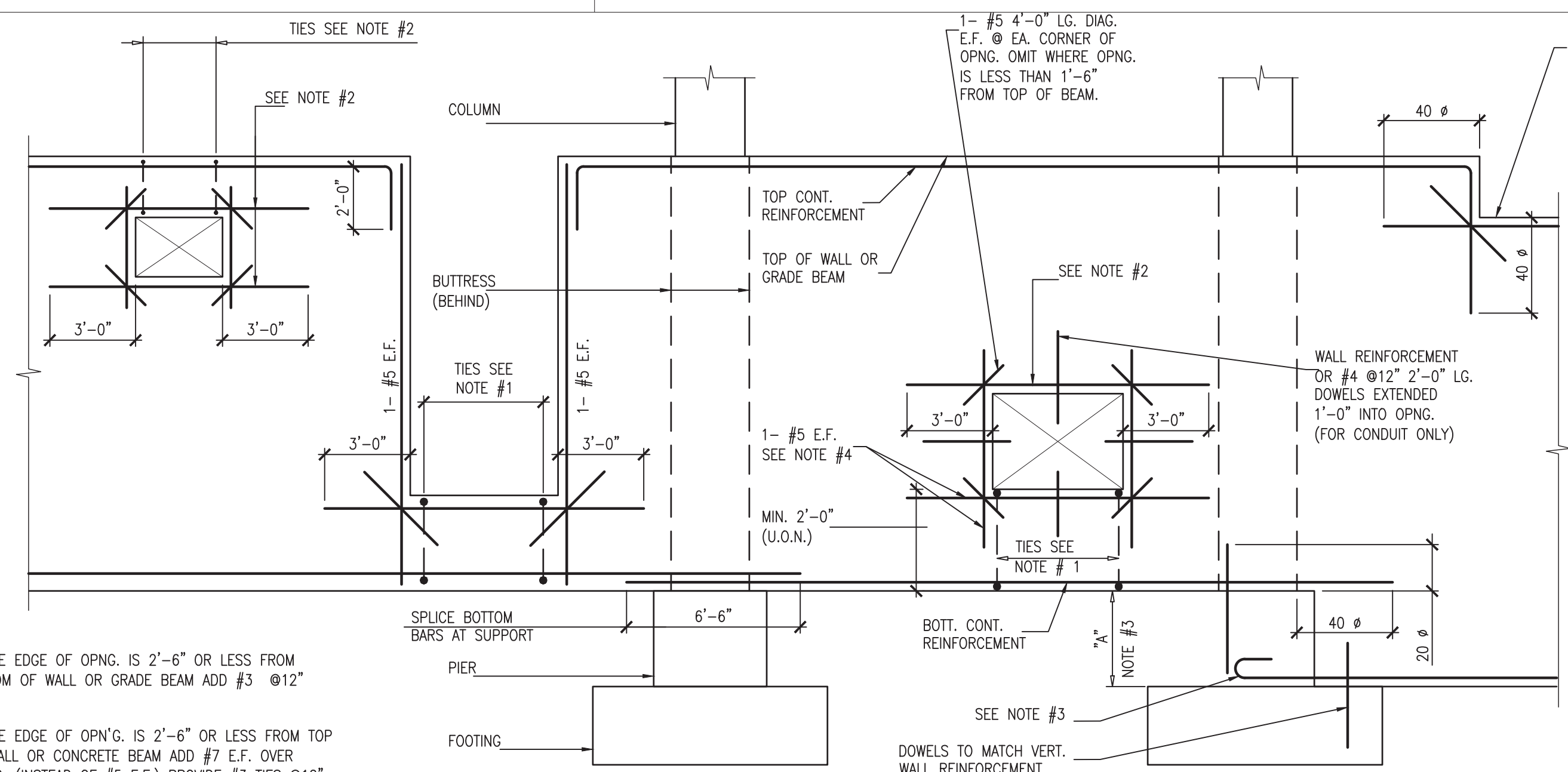
TYPICAL VERTICAL CONSTRUCTION JOINT IN CONCRETE WALLS



TYPICAL DETAIL OF INTERIOR POST HAUNCH



STEPPED FOOTING TYPICAL DETAIL



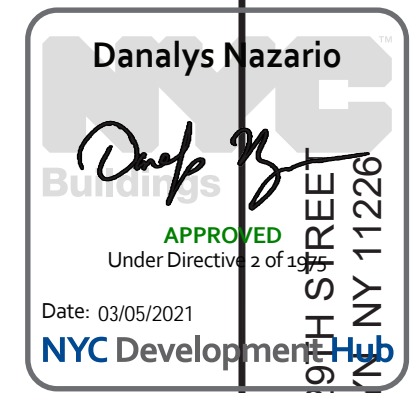
TYPICAL WALL OPENING REINFORCING AND MISCELLANEOUS DETAIL

- NOTES:**
1. WHERE EDGE OF OPNG. IS 2'-6" OR LESS FROM BOTTOM OF WALL OR GRADE BEAM ADD #3 @12" O.C.
 2. WHERE EDGE OF OPNG. IS 2'-6" OR LESS FROM TOP OF WALL OR CONCRETE BEAM ADD #7 E.F. OVER OPNG. (INSTEAD OF #5 E.F.) PROVIDE #3 TIES @12" O.C.
 3. WHERE DIMENSIONS "A" EXCEEDS 1'-6" BOTT. BARS MAY BE HOOKED 180°.
 4. ADD #5 BARS EACH SIDE OF OPENING EQUAL IN AREA TO 1/2 OF INTERRUPTED BARS MIN. ONE #5 E.F. HOOK ALL INTERRUPTED CONTINUOUS BARS.

NO.	DATE	REVISION



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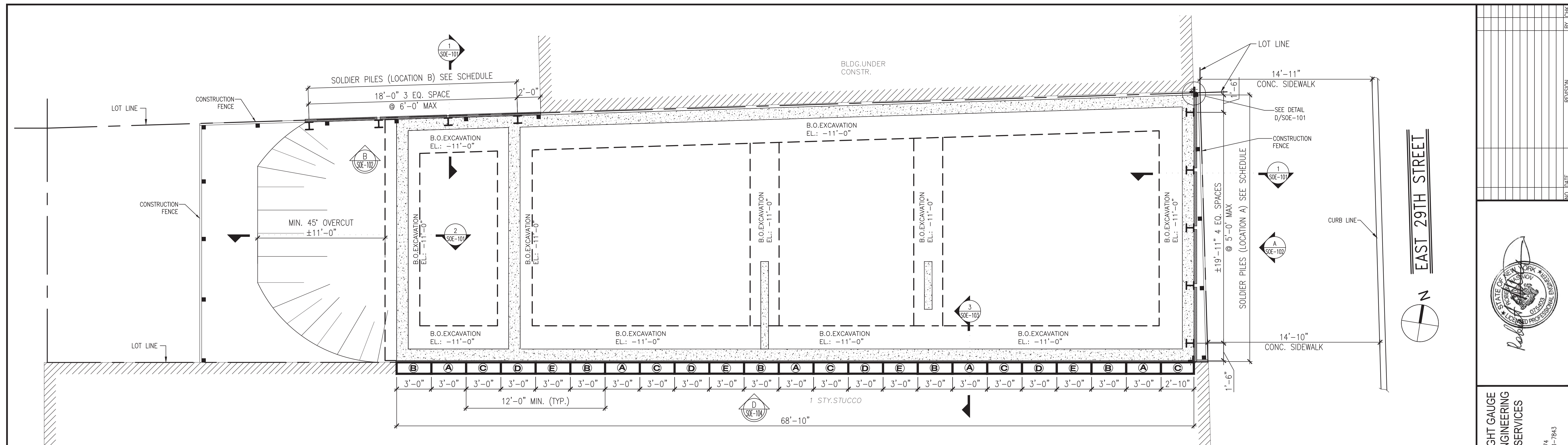
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PROJECT No. **20-67**

FOUNDATION TYPICAL DETAILS

DOB NOW JOB # B00414101-11
DRAWN BY T.S.
CHECKED BY R.N.
DATE 10-16-2020
SCALE AS NOTED

SHEET No. **FO-300.00**



1 SUPPORT OF EXCAVATION & UNDERPINNING PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- ALL WORK SHALL CONFORM WITH THE 2014 NEW YORK CITY BUILDING CODE.
- DESIGN PLANS, SECTIONS, DETAILS AND NOTES, TO THE BEST OF ENGINEER'S KNOWLEDGE, COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE 2014 NEW YORK CITY BUILDING CODE.
- ALL WORK WHICH IS NOT INDICATED IN THIS SET OF DRAWING BUT IS REASONABLY APPLIED AND SIMILAR TO WHAT IS SHOWN AT OTHER LOCATION SHALL EMPLOY SAME CONCEPTS AND METHODS PROVIDED.
- CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL FROM ENGINEER OF RECORD.
- ALL DIMENSIONS ON THIS DRAWINGS ARE APPROXIMATE AND SHOULD NOT BE USED FOR ORDERING AND/OR FABRICATING MATERIAL. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING AND/OR FABRICATING MATERIALS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BY MEASURING THEM IN FIELD. CONTRACTOR SHALL CONDUCT ANY MEASUREMENTS NECESSARY TO VERIFY THE ACCURACY OF HIS/HER WORK ACCORDING TO ARCHITECT/STRUCTURAL PLAN.
- ALL WORK THAT MAY CAUSE ANY DISTURBANCE TO THE ADJACENT BUILDING SHALL BE REDUCED TO A MINIMUM.
- ADJACENT STRUCTURES SHALL BE PROTECTED FROM DAMAGE DURING ANY EARTH SHORING, UNDERPINNING, DEMOLITION AND ANY CONSTRUCTION WORK THAT MAY AFFECT SAID STRUCTURES.

IT SHALL BE THE GENERAL CONTRACTORS RESPONSIBILITY TO HIRE A LICENSED INSPECTION AGENCY TO PROVIDE THE FOLLOWING SPECIAL INSPECTION ITEMS FOR SUBMISSION TO THE DOB:

SUBGRADE INSPECTION	BC 1704.7.1
SUBSURFACE INVESTIGATIONS (BORING/TEST PITS)	BC 1704.7
EXCAVATIONS - SHEETING, SHORING, AND BRACING	BC 1704.20.2
UNDERPINNING	BC 1704.20.3
	BC 1814

SOLDIER PILE SCHEDULE						
LOCATION	SIZE	MATERIAL	MAX. SPACING, FT.	MAX. RETAINED SOIL, FT.	MIN. PILE EMBEDMENT, FT.	QTY.
LOCATION-A	W10X54	50 KSI	5'-0"	11'-0"	21'-0"	5
LOCATION-B	W10X33	50 KSI	6'-0"	11'-0"	16'-6"	4

NOTE: SOLDIER PILES LOCATED WITHIN FOUNDATION WALLS MUST BE PRE-DRILLED TO ACCOMMODATE REQUIRED REBAR.

- RECOMMENDED SHEETING/SHORING CONSTRUCTION SEQUENCE:**
- INSTALL CONSTRUCTION FENCE.
 - INVESTIGATE EXISTING UTILITIES. CONTRACTOR IS FULLY RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING UTILITIES.
 - LAYOUT SOLDIER PILE LOCATIONS.
 - U.O.N., INSTALL PILES WITH PREDRILLED HOLES AT REQUIRED DEPTH AS PER SECTIONS.
 - COMMENCE EXCAVATING, BETWEEN EACH PILE, FROM TOP CONSTANTLY INSTALLING WOOD LAGGING AS WORK PROGRESSES DOWNWARD.
 - MASS EXCAVATION PRIOR TO PLACEMENT OF LAGGING BOARDS IS NOT PERMITTED.
 - TYPICALLY, LIFTS SHOULD BE LIMITED TO A MAXIMUM OF 2 BOARD HEIGHTS IF SOIL CONDITIONS PERMITTING.
 - INSTALL AND CONNECT WALERS, RAKERS AND STRUTS AS SHOWN ON DETAIL.
 - PROCEED WITH EXCAVATION UNTIL THE REQUIRED DEPTH IS REACHED AS INDICATED ON THE PLAN.
 - SHEETING/SHORING NOT TO BE REMOVED UNTIL THE NEW GROUND FLOOR SLAB HAS BEEN INSTALLED AND THE NEW CONCRETE HAS REACHED THE DESIGN COMPRESSIVE STRENGTH.
 - AFTER COMPLETION OF THE NEW STRUCTURE, REMOVE RAKERS & WALERS. BURN OFF "HP" PILES 1'-0" BELOW PROPOSED FINISH GRADE.
 - INSTALL CONTROLLED BACKFILL IN ACCORDANCE WITH DESIGN DOCUMENTS, AS REQUIRED.

- MONITORING NOTES:**
- MONITORING PLAN INCLUDING MONITORING PROTOCOL SHOULD BE PREPARED BY A LICENSED SURVEYOR. THE PLAN WITH OPTICAL LOCATION POINTS SHALL BE SUBMITTED FOR EOR APPROVAL.
 - A PRE-CONSTRUCTION (PRE-CONDITION) SURVEY OF THE ADJACENT STRUCTURES AND BUILDINGS, SHALL BE PERFORMED PRIOR TO CONSTRUCTION IN ACCORDANCE WITH BUILDING CODE. 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.
 - MONITORS SHALL BE SETUP ALONG THE ABUTTING BUILDINGS AND STRUCTURES BY A LICENSED SURVEYOR AT ABOUT 25 FOOT INTERVALS FOR VERTICAL AND LATERAL MOVEMENT. NOTE THAT BUILDING MONITORING LOCATIONS ARE NOT SHOWN ON THE SUPPORT OF EXCAVATION PLAN FOR CLARITY.
 - CRACK GAUGES SHALL BE INSTALLED ON EXISTING NEIGHBORING BUILDING CRACKS AND MONITORED DURING EXCAVATION AND UNDERPINNING OPERATIONS.
 - 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.
 - PERFORM OPTICAL SURVEYS AT LEAST TWICE PER WEEK DURING EXCAVATION AND FOUNDATION CONSTRUCTION. IF MOVEMENTS OCCUR, INCREASE THE FREQUENCY OF THE READINGS AS RECOMMENDED BY THE BPP OR ENGINEER.
 - VIBRATION MONITORS (SEISMOGRAPHS) SHALL BE PLACED ADJACENT TO AREAS WHERE WORK IS BEING PERFORMED AS NEGOTIATED WITH THE NEIGHBORING BUILDINGS NOTE THAT THE SEISMOGRAPH LOCATIONS ARE NOT SHOWN ON THE SUPPORT OF EXCAVATION PLAN FOR CLARITY.
- RECOMMENDED BUILDING MOVEMENT AND VIBRATION CRITERIA:**
- ALL MONITORING FREQUENCIES SHALL COMPLY WITH MONITORING PROTOCOL
 - IF THE VERTICAL OR LATERAL BUILDING MOVEMENT REACHES 1/4 INCH, IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER, OWNER, ENGINEER AND STOP WORK. THE WORK SHALL RESUME UPON APPROVAL BY THE CONSTRUCTION MANAGER, OWNER, ENGINEER, OF APPROVED REMEDIAL MEASURES AND/OR MODIFIED CONSTRUCTION PROCEDURES.
 - IF THE VIBRATIONS EXCEED 0.5 IPS, AND/OR ANY INDIVIDUAL CRACK GAUGE READING EXCEEDS 2MM, IMMEDIATELY INFORM THE CONSTRUCTION MANAGER, OWNER, ENGINEER AND STOP WORK. THE WORK SHALL RESUME UPON APPROVAL BY THE CONSTRUCTION MANAGER, OWNER, ENGINEER OF REMEDIAL MEASURES AND/OR MODIFIED CONSTRUCTION PROCEDURES. INFORM NYC DOB EXCAVATION UNIT, OBSERVE NEIGHBORING STRUCTURE CONDITIONS, AND REVIEW AND MODIFY AS NECESSARY, THE MEANS AND METHODS FOR EXCAVATION, AND SUPPORT OF EXCAVATION AND UNDERPINNING PER CONDITION. WORK SHALL NOT COMMENCE UNTIL AGREED UPON CORRECTIVE ACTION IS IMPLEMENTED BY THE CONTRACTOR.
- VIBRATION MONITORS SHALL TAKE REAL TIME READINGS.
 - ALL MONITORING DATA SHALL BE PRESENTED TO THE CONSTRUCTION MANAGER, OWNER, ENGINEER, AT THE END OF EACH DAY, OR AT AGREED UPON INTERVALS.
 - BASE READINGS OF ALL MONITORING POINTS TO BE TAKEN PRIOR TO EXCAVATION WORK.

Danays Nazario
APPROVED
Under Directive 2 of 18
NYC Development
Date: 03/05/2021

PROJECT: 32 EAST 29TH STREET, BROOKLYN, NY 11226

CLIENT: 20-67

DRAWING TITLE: SUPPORT OF EXCAVATION & UNDERPINNING LAYOUT PLAN

DOB NOW JOB # B00414101-11

DRAWN BY: T.S.

CHECKED BY: R.N.

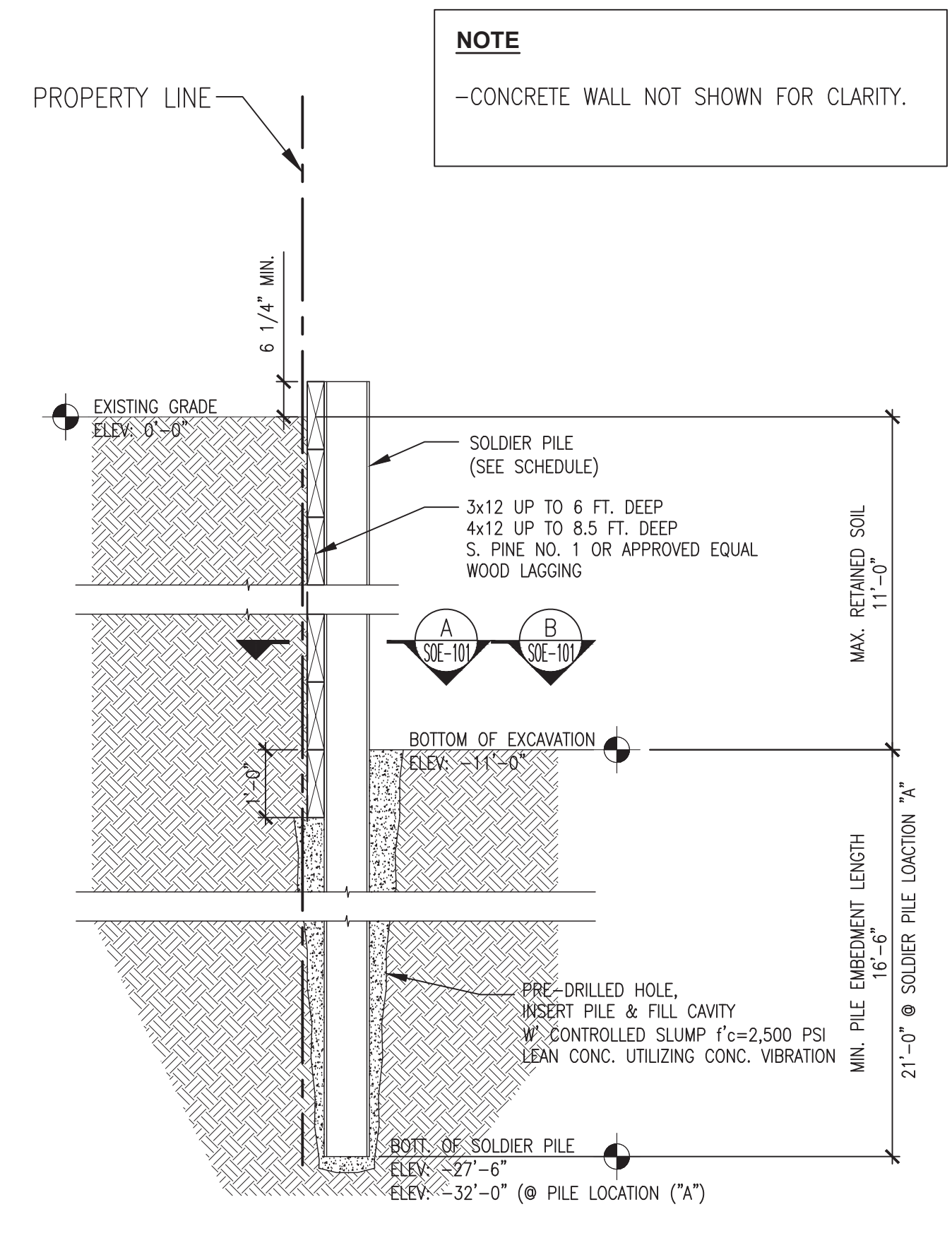
DATE: 10-16-2020

SCALE: AS NOTED

SHEET No.

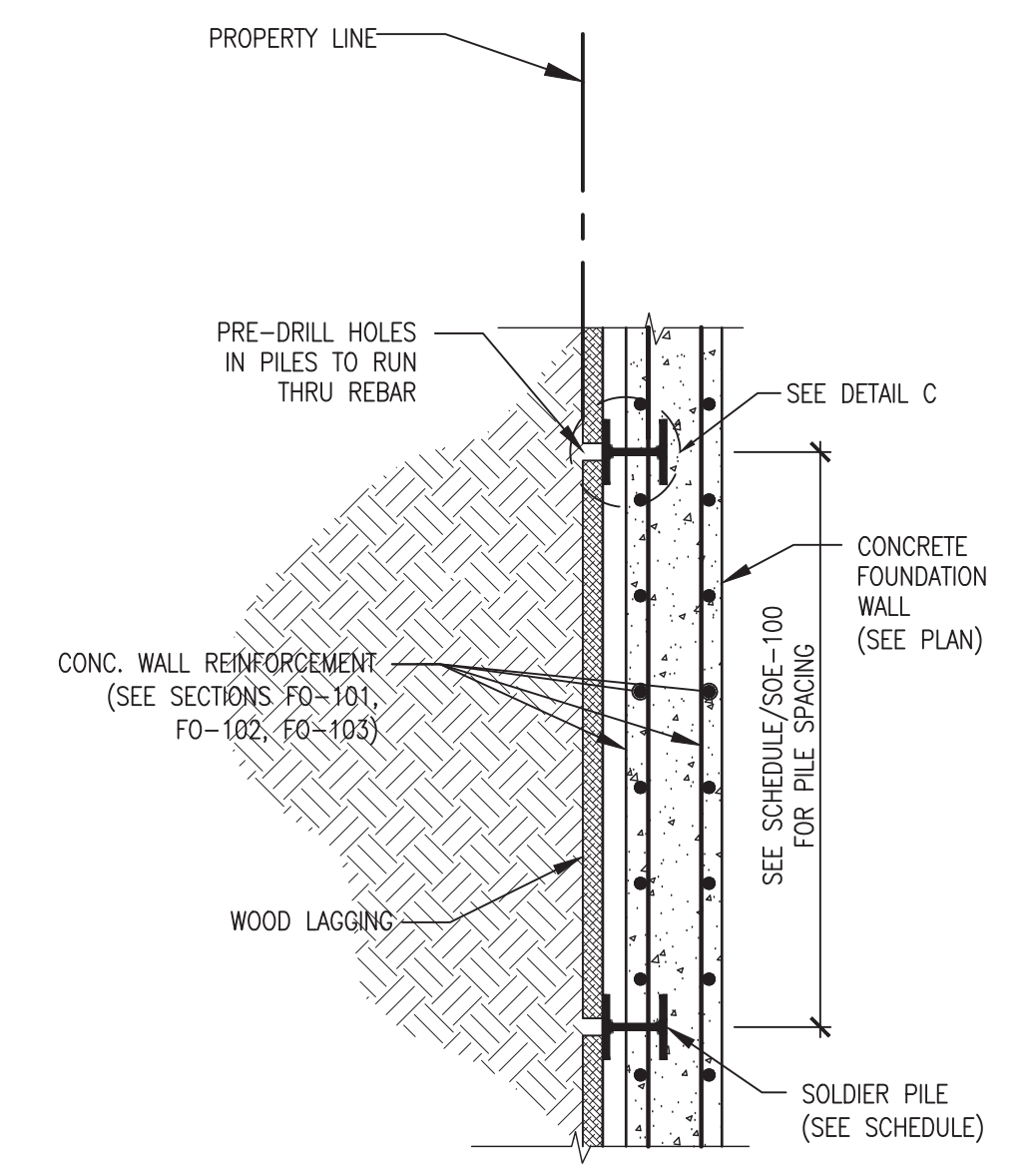
SOE-100.00

Light Gauge Engineering Services
ENGINEERING P.C.
64-07 102 ST. RECO PARK, N.Y. 11374
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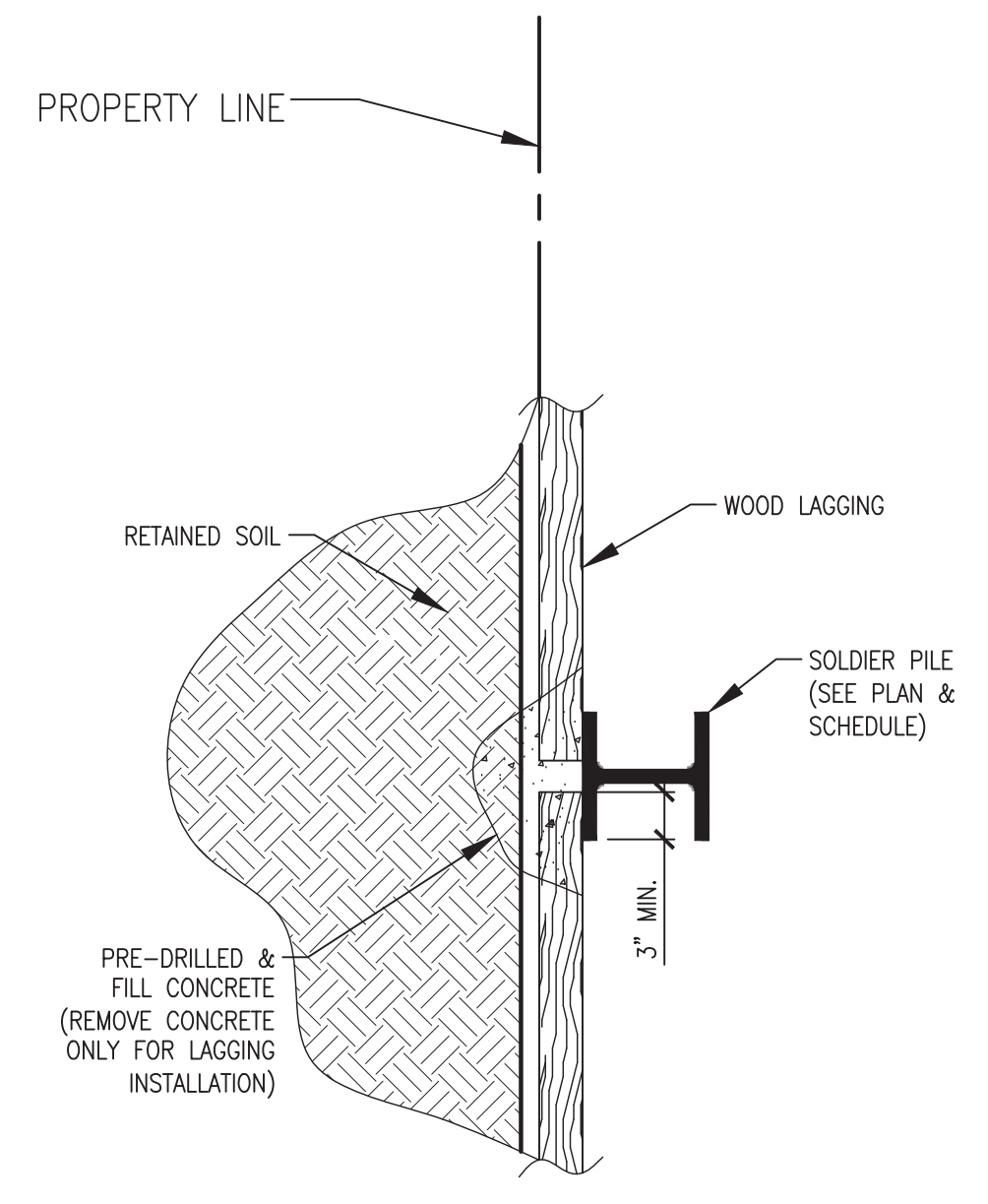


1 SECTION
SOE-101 SCALE: 1/2" = 1'-0"
Ref. SOE-100

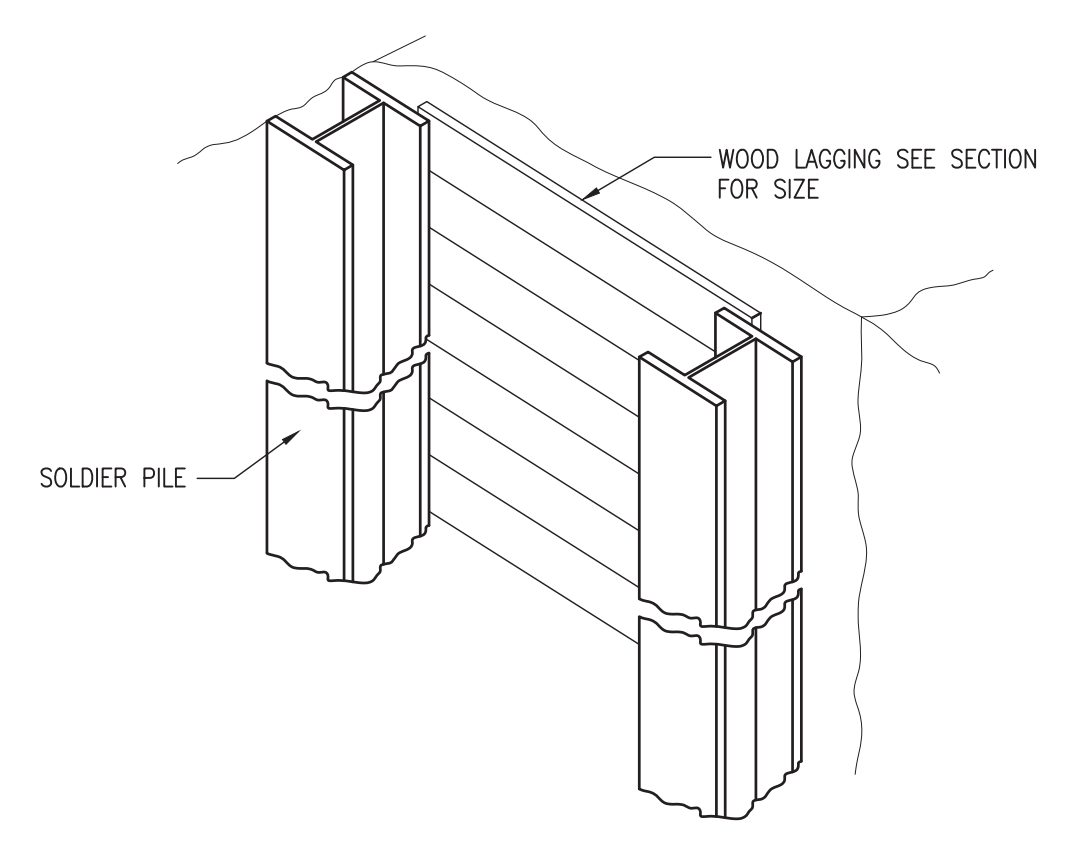
NOTE
-CONCRETE WALL NOT SHOWN FOR CLARITY.



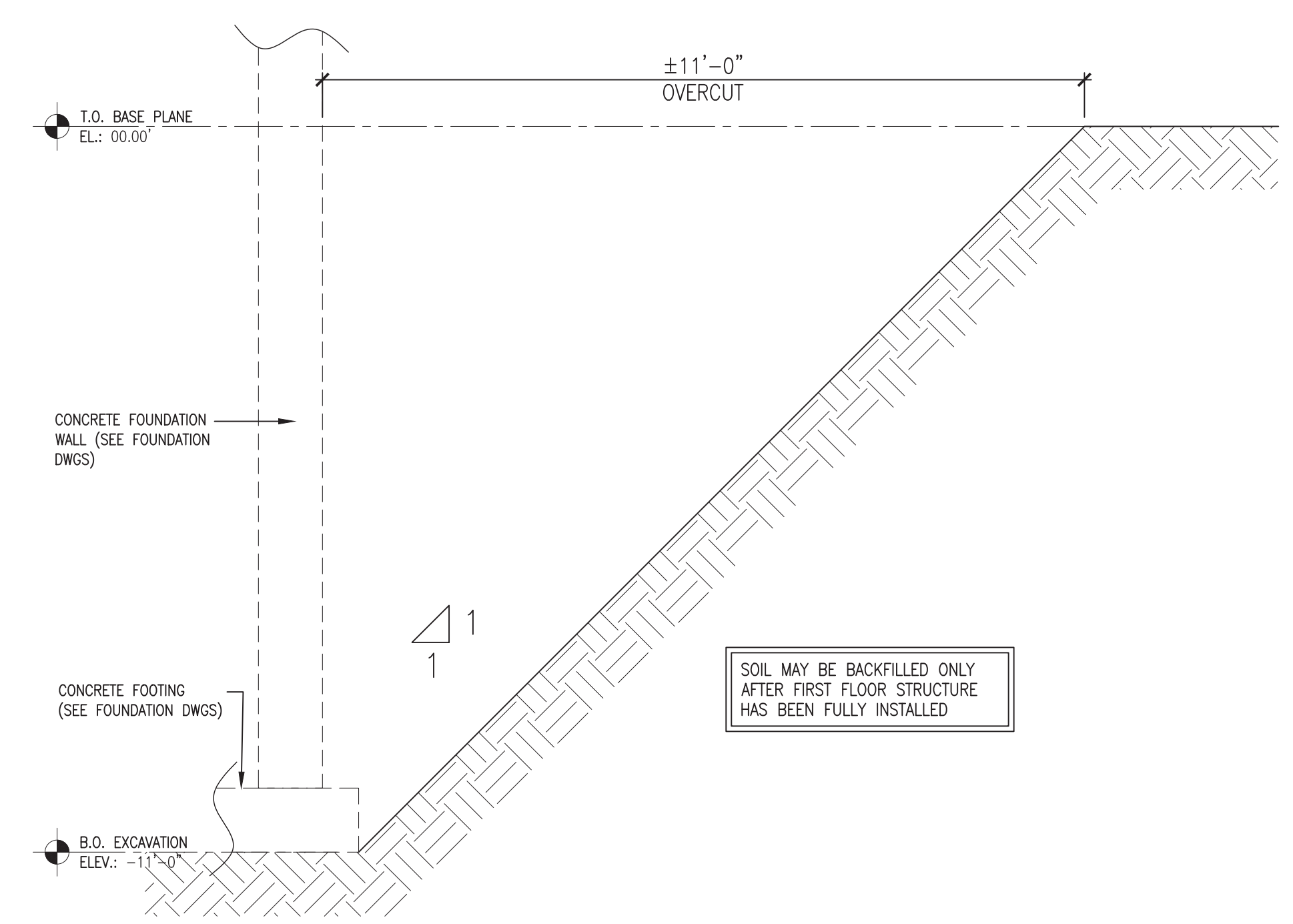
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SOE-101 SCALE: 1/2" = 1'-0"
Ref. SOE-101



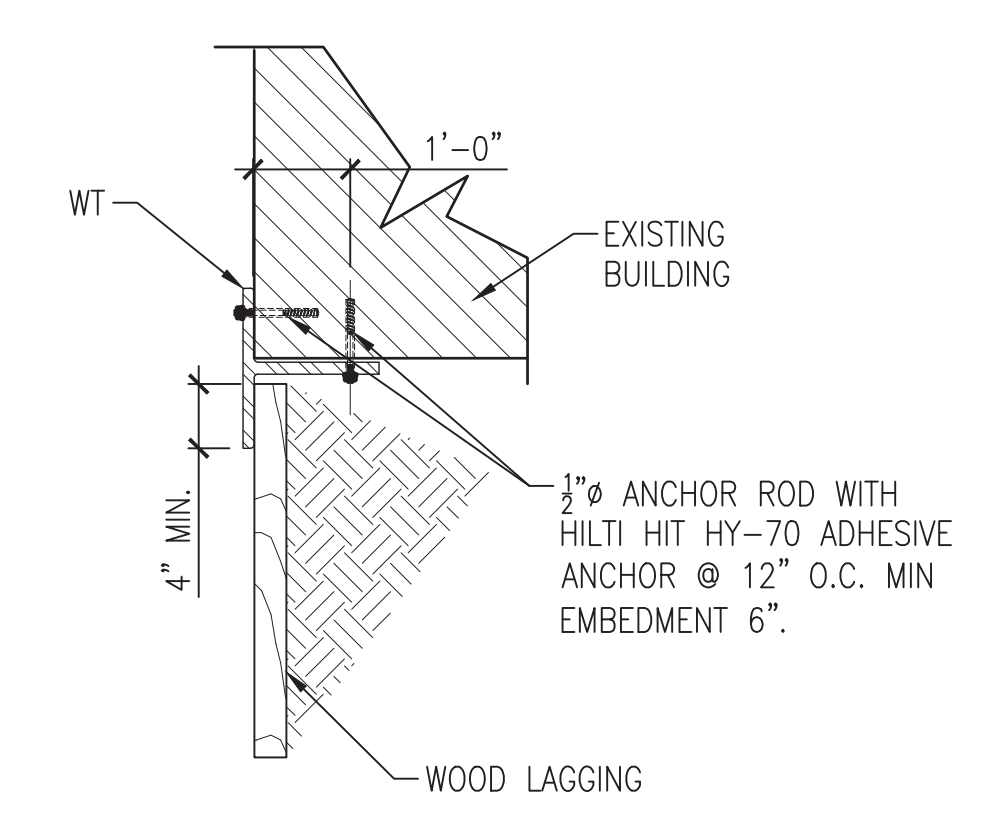
DETAIL C
SCALE: NTS



ISOMETRIC OF TYP. SHORING
SCALE: NTS



2 TYPICAL OVERCUT SECTION
SOE-101 SCALE: 1/2" = 1'-0"
Ref. SOE-100



D DETAIL
SOE-101 SCALE: NTS

NOTE FOR CONTRACTOR:
START EXCAVATING MINIMUM 48 HOURS AFTER CONCRETE HAVE BEEN CURED

NO.	DATE	REVISION



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Date: 03/05/2021
NYC Development

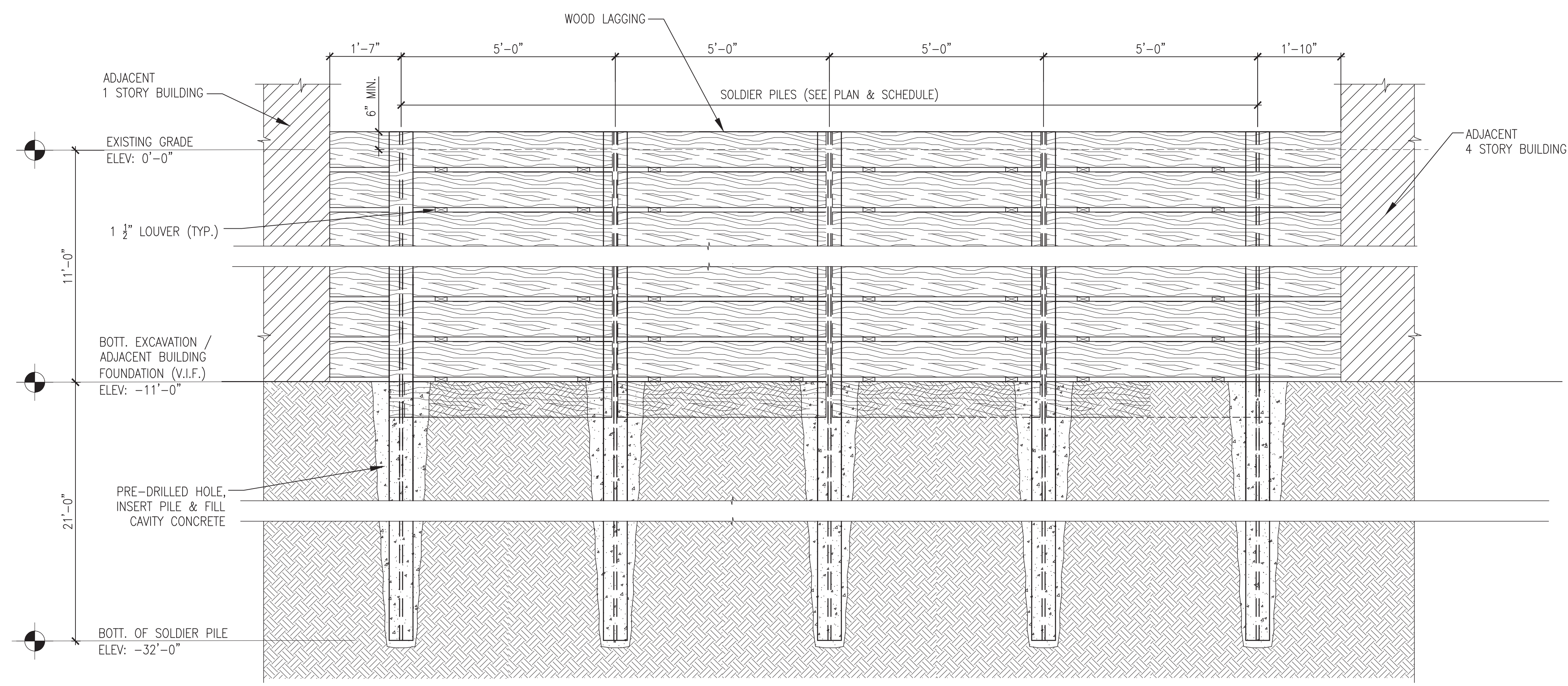
32 EAST 29TH STREET
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PROJECT No. 20-67

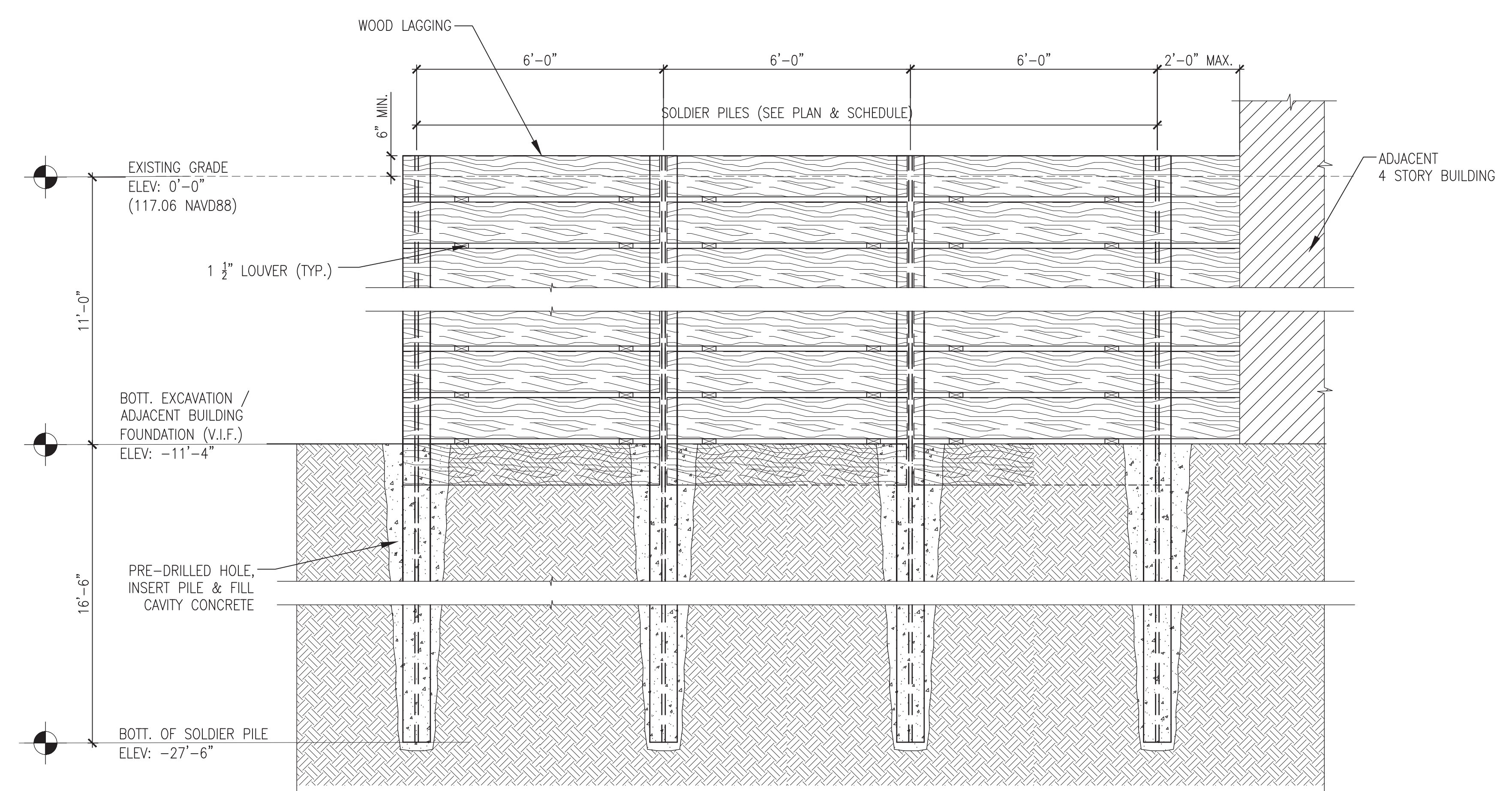
DRAWING TITLE
SUPPORT OF EXCAVATION SECTIONS & DETAILS

DOB NOW JOB #	B00414101-11
DRAWN BY	T.S.
CHECKED BY	R.N.
DATE	10-16-2020
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SOE-101.00



A VIEW
 SOE-102 SCALE: 1/2" = 1'-0"
 Ref: SOE-100



B VIEW
 SOE-102 SCALE: 1/2" = 1'-0"
 Ref: SOE-100

NO.	DATE	REVISION	BY



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PROJECT	CLIENT
PROJECT No.	20-67
DRAWING TITLE	SUPPORT OF EXCAVATION VIEWS
DOB NOW JOB #	B00414101-11
DRAWN BY	T.S.
CHECKED BY	R.N.
DATE	10-16-2020
SCALE	AS NOTED
SHEET No.	

SOE-102.00

