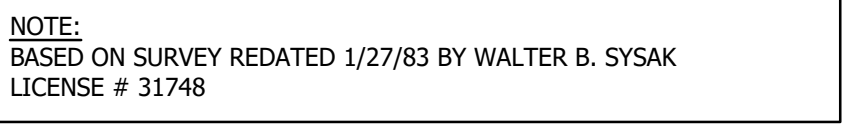


- (P) 1. PLUMBING CONTRACTOR TO COORDINATED W/ OWNER & OTHER TRADES.
- (P) 2. BATHROOM AND KITCHEN FIXTURES TO BE AMERICAN STANDARD, KOHLER OR EQUAL.
- (P) 3. ALL PLUMBING WORK SHALL COMPLY TO THE 2020 RESIDENTIAL CODE OF NEW YORK STATE AND ALL OTHER APPLICABLE CODES, LAWS, RULES, AND ORDINANCES AND HEALTH DEPARTMENT REQUIREMENTS.
- (P) 4. PROVIDE ALL NECESSARY VENTILATION (AIR INTAKE AND EXHAUST) AS 2020 RESIDENTIAL CODE OF NEW YORK STATE AND EQUIPMENT MANUFACTURERS SPECIFICATIONS.
- (P) 5. HEATING AND AIR CONDITIONING REQUIREMENTS SHALL BE COORDINATED WITH THE OWNER'S H.V.A.C. CONTRACTOR PRIOR TO COMMENCING ANY WORK.
- (P) 6. PLUMBING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTERS 23-33 OF THE 2020 RESIDENTIAL CODE OF NEW YORK STATE.
- (P) 7. MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTERS 12-23 OF THE 2020 RESIDENTIAL CODE OF NEW YORK STATE.
- (P) 8. FUEL GAS SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 24 OF THE 2020 RESIDENTIAL CODE OF NEW YORK STATE.
- (P) 9. THE LICENSE PLUMBER, ELECTRICIAN, AND HVAC CONTRACTOR OF RECORD SHALL DETERMINE THE MODIFICATIONS AND/OR REPLACEMENT OF THE EXISTING SYSTEM.
- (P) 10. NO PLUMBING TO BE IN EXTERIOR WALLS.
- (P) 11. ALL PLUMBING MATERIALS MUST BE IN ACCORDANCE WITH THE IRC TO BUILDING INSPECTORS SATISFACTION
- (P) 12. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION P2605 2020 RESIDENTIAL CODE OF N.Y.S.

<u>ZONING REQUIREMENTS (DWELLING)</u>	<u>ALLOWABLE</u>	<u>EXISTING</u>	<u>PROPOSED</u>
LOT COVERAGE	27.5% (1,100 S.F.)	36.9% (1,478 S.F.)	NO CHANGE
HEIGHT	2.5 STORIES (30'-0")	19'-6"	29'-6"
FRONT YARD	25.0'	7.9'	NO CHANGE
REAR YARD	25.0'	44.1'	NO CHANGE
SIDE YARD (TOTAL)	15.0'	15.6'	NO CHANGE
SIDE YARD (MINIMUM)	5.0'	7.6'	NO CHANGE



ALL DRAWINGS AND WRITTEN MATERIAL HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE LICENSEE PROFESSIONAL, AND THE SAME MAY NOT BE REPRODUCED, USED, OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE LICENSED PROFESSIONAL.	
SIGN & SEAL	
BUILDING PERMIT / APPLICATION # <div style="font-size: 2em; font-weight: bold;">23-7888</div>	
DATE	12/30/2024
PROJECT #	
DRAWN BY	REH
CHECKED BY	
DRAWING TITLE	
GENERAL NOTES	
DRAWING #	
A 001	
SHEET #	
1 OF 9	

THE FOLLOWING ARE EXCERPTS OF THE 2020 RESIDENTIAL CODE OF NEW YORK STATE

TABLE R301.2(1) CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD ¹	Speed ² (mph)	Topographic effects ³	Special wind region ¹	Windborne debris zone ⁴	SEISMIC DESIGN CATEGORY ⁵	SUBJECT TO DAMAGE FROM		WINTER DESIGN TEMP ⁶	ICE BARRIER UNDERLAYMENT REQUIRED ⁷	FLOOD HAZARDS ⁵	AIR FREEZING INDEX ⁸	MEAN ANNUAL TEMP ⁹	
20	130	NO	NO	1 mile from the coast	8	SEVERE	36"	HEAVY	15"	YES	Insert flood zone or N/A	452	52.7"

MANUAL J DESIGN CRITERIA

Elevation	Latitude	Winter heating	Summer cooling	Altitude	Correction factor	Indoor design temp.	Design temperature cooling	Heating Temperature Difference
123 ft.	40°	15°	85°	1	70		75°	55°
Cooling Temperature Difference	Wind velocity heating	Wind velocity cooling	Coincident wet bulb	Daily range	Winter humidity	Summer humidity		
15°	15 MPH	7.5 MPH	72°	Medium	45-55%	32 GR@50%RH		

For SI: 1 pound per square foot = 0.0479 kPa, 1 mile per hour = 0.447 m/s.

a. Where weathering requires a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code, the frost line depth strength required for weathering shall govern. The weathering column shall be filled in with the weathering index, "negligible," "moderate" or "severe" for concrete as determined from Figure R301.2(4). The grade of masonry units shall be determined from ASTM C34, C55, C62, C73, C90, C129, C145, C216 or C682.

b. Where the frost line depth requires deeper footings than indicated in Figure R403.1(1), the frost line depth strength required for weathering shall govern. The jurisdiction shall fill in the frost line depth column with the minimum depth of footing below finish grade.

c. The jurisdiction shall fill in this part of the table to indicate the need for protection depending on whether there has been a history of local subterranean termite damage.

d. The jurisdiction shall fill in this part of the table with the wind speed from the basic wind speed map [Figure R301.2(5)A]. Wind exposure category shall be determined on a site-specific basis in accordance with Section R301.2.1.4.

e. The outdoor design dry-bulb temperature shall be selected from the columns of 97 °F-percent values for winter from Appendix D of the Plumbing Code of New York State. Deviations from the Appendix D temperatures shall be permitted to reflect local climates or local weather experience as determined by the building official. [Also see Figure R301.2(1)].

f. The jurisdiction shall fill in this part of the table with the seismic design category determined from Section R301.2.2.1.

g. [NY] To establish flood hazard areas, each community regulated under Title 19, Part 1203 of the Official Compilation of Codes, Rules and Regulations of the State of New York (NYCRR) shall adopt a flood hazard map and supporting data. The flood hazard map shall include, at a minimum, special flood hazard areas as identified by the Federal Emergency Management Agency in the Flood Insurance Study for the community, as amended or revised with:

i. The accompanying Flood Insurance Rate Map (FIRM).

ii. Flood Boundary and Floodway Map (FBFM), and

iii. Related supporting data along with any revisions thereto.

h. The adopted flood hazard map and supporting data are hereby adopted by reference and declared to be part of this section.

i. In accordance with Sections R602.1.2, R602.4.3.1, R602.5.3.1, R602.5.3.1, R602.5.3.1 and R602.8.3.1, where there has been a history of local damage from the effects of ice damming.

j. The jurisdiction shall fill in this part of the table with the 100-year return period air freezing index (88 days) from Figure R403.3(2) or from the 100-year (99 percent) value on the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)".

k. In accordance with Section R301.2.1.5, where there is local historical data documenting structural damage to buildings due to topographic wind speed-up effects, the jurisdiction shall fill in this part of the table in accordance with Figure R301.2(5)A, where there is local historical data documenting unusual wind conditions, the jurisdiction shall fill in this part of the table with "YES" and identify any specific masonry or structural details.

l. In accordance with Section R301.2.1.2 the jurisdiction shall indicate the wind-borne debris wind zone. Otherwise, the jurisdiction shall indicate "N/A" in this part of the table.

m. The jurisdiction shall fill in these sections of the table to establish the design criteria using Table 1a or 1b from ACCA Manual J or established criteria determined by the jurisdiction.

n. [NY] The ground snow loads to be used in determining the design snow loads for roofs are given in Figure R301.2(5) for sites at elevations up to 1,000 feet. Sites at elevations above 1,000 feet shall be determined by the local building official.

(NYS 2020) TABLE R602.3(1) - FASTENING SCHEDULE

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING OF FASTENERS (inches) ^b	
Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing [see Table R602.3(3) for wood structural panel exterior wall sheathing to wall framing]				
24	2" subfloor to joist or girder	3-16d box (3 1/2" x 0.135"); or 2-16d common (3 1/2" x 0.162")	Blind and face nail	
25	2" planks (plank & beam—floor & roof)	3-16d box (3 1/2" x 0.135"); or 3-16d common (3 1/2" x 0.162"); or 4-10 box (3" x 0.128"); or 4-3" x 14 ga. staples, 7/16" crown	At each bearing, face nail	
26	Band or rim joist to joist	20d common (4" x 0.192"); or 10d box (3" x 0.128"); or 3" x 0.131" nails	End nail	
27	Built-up girders and beams, 2-inch lumber layers	And: 2-20d common (4" x 0.192"); or 3-16d box (3" x 0.128"); or 3-3" x 0.131" nails	Nail each layer as follows: 32" o.c. at top and bottom and staggered	
28	Ledge strip supporting joists or rafters	4-16d box (3 1/2" x 0.135"); or 3-16d common (3 1/2" x 0.162"); or 4-10d box (3" x 0.128"); or 4-3" x 0.131" nails	24" o.c. face nail at top and bottom staggered on opposite sides	
29	Bridging or blocking to joist	2-10d box (3" x 0.128"); or 2-8d common (2 1/2" x 0.131"); or 2-3" x 0.131" nails	Face nail at ends and at each splice	
30	3/4" x 1/2"	6d common (2" x 0.113") nail (subfloor, wall); 8d common (2 1/2" x 0.131") nail (roof); or RSSR-01 (2 1/2" x 0.113") nail (roof)	6	12"
31	1 1/2" x 1"	8d common nail (2 1/2" x 0.131"); or RSSR-01; (2 1/2" x 0.113") nail (roof)	6	12"
32	1 1/4" x 1 1/4"	10d common (3" x 0.148") nail; or 8d (2 1/2" x 0.131") deformed nail	6	12"
Other wall sheathing ^d				
33	1/2" structural cellular-fiberglass sheathing	1 1/2" galvanized roofing nail, 7/16" head diameter, or 1 1/4" long 16 ga. staple with 7/16" or 1" crown	3	6
34	2 1/2" structural cellular-fiberglass sheathing	1 1/2" galvanized roofing nail, 7/16" head diameter, or 1 1/4" long 16 ga. staple with 7/16" or 1" crown	3	6
35	1/2" gypsum sheathing ^d	1 1/2" galvanized roofing nail, staple galvanized, 1 1/2" long, 1 1/2" screws, Type W or S	7	7
36	3/8" gypsum sheathing ^d	1 1/2" galvanized roofing nail, staple galvanized, 1 1/2" long, 1 1/2" screws, Type W or S	7	7
Wood structural panels, combination subfloor underlayment to framing				
37	3/4" and less	6d deformed (2" x 0.120") nail; or 8d common (2 1/2" x 0.131") nail	6	12"
38	7/8" x 1"	8d common (2 1/2" x 0.131") nail; or 8d deformed (2 1/2" x 0.120") nail	6	12"
39	1 1/4" x 1 1/4"	10d common (3" x 0.148") nail; or 8d deformed (2 1/2" x 0.120") nail	6	12"

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s, 1 psi = 6.895 kPa.

a. Nails are smooth-common, box or deformed shanks except where otherwise stated. Nails used for framing and sheathing connections shall have minimum average bending yield strengths as shown: 80 ksi for shank diameter of 1/16 inch (20d common nails), 90 ksi for shank diameters larger than 1/16 inch but not larger than 5/16 inch, and 100 ksi for shank diameters of 5/16 inch or less.

b. Staples are 16 gauge wire and have a minimum 1/4-inch on diameter crown width.

c. Nails shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.

d. Four-foot by 8-foot or 4-foot by 8-foot panels shall be applied vertically.

e. Spacing of fasteners not included in this table shall be based on Table R602.3(2).

f. For wood structural panel roof sheathing attached to gables and roof framing and to intermediate supports within 48 inches of roof edges and ridges, nails shall be spaced at 6 inches on center where the ultimate design wind speed is less than 130 mph and shall be spaced 4 inches on center where the ultimate design wind speed is 130 mph or greater but less than 140 mph.

g. Gypsum sheathing shall conform to ASTM C1288 and shall be installed in accordance with (A) 203. Fiberglass sheathing shall conform to ASTM C208.

h. Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and required blocking. Blocking of roof or floor sheathing panel edges perpendicular to the framing members need not be provided except as required by other provisions of this code. Floor perimeter shall be supported by framing members or solid blocking.

i. Where a nail or fastener is to be installed in an adjacent perimeter ceiling joist in accordance with this schedule, provide two nail or fastener on one side of the rafter and two nails from the ceiling joist to top plate in accordance with this schedule. The two nail on the opposite side of the rafter shall not be required.

j. RSSR-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.

(NYS 2020) TABLE R602.3(2) - ALTERNATE ATTACHMENTS TO TABLE R602.3(1)

NOMINAL MATERIAL THICKNESS (inches)	DESCRIPTION ^a OF FASTENER AND LENGTH (inches)	SPACING ^a OF FASTENERS			
		Edges (inches)	Intermediate supports (inches)		
Wood structural panels subfloor, roof and wall sheathing to framing and particleboard wall sheathing to framing ^e					
Up to 1/2	Fiber-cement	Staple 15 ga. 1 1/4	4	8	
		0.097 - 0.099 Nail 2 1/4	3	6	
		Staple 16 ga. 1 1/4	3	6	
		0.113 Nail 2	3	6	
		Staple 15 and 16 ga. 2	4	8	
1/2, 3/4 and 5/8	Fiber-cement	0.097 - 0.099 Nail 2 1/4	4	8	
		Staple 14 ga. 2	4	8	
		Staple 15 ga. 1 1/4	3	6	
		0.097 - 0.099 Nail 2 1/4	4	8	
		Staple 16 ga. 2	4	8	
1	Fiber-cement	Staple 14 ga. 2 1/4	4	8	
		0.113 Nail 2 1/4	3	6	
		Staple 15 ga. 2 1/4	4	8	
		0.097 - 0.099 Nail 2 1/2	4	8	
NOMINAL MATERIAL THICKNESS (inches)	DESCRIPTION ^a OF FASTENER AND LENGTH (inches)	SPACING ^a OF FASTENERS			
		Edges (inches)	Body of panel ^d (inches)		
Floor underlayment; plywood-hardboard-particleboard-fiber-cement ^b					
1/4	Fiber-cement	3d, corrosion-resistant, ring shank nails (finished flooring other than tile)	3	6	
		Staple 18 ga., 7/16 long, 7/16 crown	3	6	
		1 1/4 long x .121 shank x .375 head diameter corrosion-resistant (galvanized or stainless steel) roofing nails (for tile finish)	8	8	
		1 1/4 long, No. 8 x .375 head diameter, ribbed water-head screws (for tile finish)	8	8	
1/2 and 5/8	Plywood	1 1/4 ring or screw shank nail-minimum 12 1/2 ga. (0.099) shank diameter	3	6	
		Staple 18 ga., 7/16 long, 7/16 crown width	2	5	
		1 1/4 ring or screw shank nail-minimum 12 1/2 ga. (0.099) shank diameter	6	8 ^e	
		1 1/2 ring or screw shank nail-minimum 12 1/2 ga. (0.099) shank diameter	6	8	
		Staple 16 ga. 1 1/2	6	8	
3/4	Hardboard ^f	1 1/2 long rim-grooved underlayment nail	6	6	
		4d cement-coated sinker nail	6	6	
		Staple 18 ga., 7/16 long (plastic coated)	3	6	
		4d ring-grooved underlayment nail	3	6	
		Staple 18 ga., 7/16 long, 7/16 crown	3	6	
1 1/2 and 1 3/4	Particleboard	6d ring-grooved underlayment nail	6	10	
		Staple 16 ga., 1 1/4 long, 7/16 crown	3	6	
		6d ring-grooved underlayment nail	6	10	
		Staple 16 ga., 1 1/4 long, 7/16 crown	3	6	
0.200		1 1/2 long rim-grooved underlayment nail	6	6	
1/4	Particleboard	4d cement-coated sinker nail	6	6	
		Staple 18 ga., 7/16 long (plastic coated)	3	6	
		4d ring-grooved underlayment nail	3	6	
		Staple 18 ga., 7/16 long, 7/16 crown	3	6	
		6d ring-grooved underlayment nail	6	10	
3/8 and 1/2	Particleboard	Staple 16 ga., 1 1/4 long, 7/16 crown	3	6	
		6d ring-grooved underlayment nail	6	10	
		Staple 16 ga., 1 1/4 long, 7/16 crown	3	6	

For SI: 1 inch = 25.4 mm.

a. Nail is a general description and shall be permitted to be T-head, modified round head or round head.

b. Staples shall have a minimum crown width of 7/16 inch on diameter except as noted.

c. Nails or staples shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater. Nails or staples shall be spaced at not more than 12 inches on center at intermediate supports for floors.

d. Fasteners shall be placed in a grid pattern throughout the body of the panel.

e. For dry joints, intermediate nails shall be spaced not more than 12 inches on center each way.

f. Hardboard underlayment shall conform to CPANAS-115.4.

g. Specified alternate attachments for roof sheathing shall be permitted where the ultimate design wind speed is less than 130 mph. Fasteners attaching wood structural panel roof sheathing to gables and roof framing shall be installed using the spacing listed for panel edges.

h. Fiber-cement underlayment shall conform to ASTM C1288 or ISO 8336, Category C.

REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES^{a, b, c}

MINIMUM NAIL		MINIMUM WOOD STRUCTURAL PANEL RATING	MINIMUM NOMINAL PANEL THICKNESS (inches)	MAXIMUM WALL STUD SPACING (inches)	PANEL NAIL SPACING		ULTIMATE DESIGN WIND SPEED V _{at} (mph)			
Size	Penetration (inches)				Edges (inches o.c.)	Field (inches o.c.)	Wind exposure category	B	C	D
6d Common (2" x 0.113")	1.5	24/0	3/8	16	6	12	140	115	110	
8d Common (2.5" x 0.131")	1.75	24/16	7/16	16	6	12	170	140	135	
				24	6	12	140	115	110	

For SI: 1 inch = 25.4 mm, 1 mile per hour = 0.447 m/s.

a. Panel strength and pressure at perpendicular to supports. Three-ply plywood sheathing with studs spaced more than 16 inches on center shall be applied with panel strength axis perpendicular to supports.

b. Table is based on wind pressures acting leeward and away from building surfaces in accordance with Section R301.2. Lateral loading requirements shall be in accordance with Section R603.5b.

c. Wood structural panels with a span rating of 16d or 24d shall be permitted as an alternate to panels with a 24/0 span rating. Plywood siding rated 16 o.c. or 24 o.c. shall be permitted as an alternate to panels with a 24/16 span rating. Wall 16 and Plywood siding 16 o.c. shall be applied with studs spaced not more than 16 inches on center.

(NYS 2020) TABLE R602.3(4) ALLOWABLE SPANS FOR PARTICLEBOARD WALL SHEATHING

THICKNESS (inch)	GRADE	STUD SPACING (inches)	
		Where siding is nailed to studs	Where siding is nailed to sheathing
3/8	M-1 Exterior glue	16	—
1/2	M-2 Exterior glue	16	16

For SI: 1 inch = 25.4 mm.

a. Wall sheathing not exposed to the weather. If the panels are applied horizontally, the end joints of the panel shall be offset so that four panel corners will not meet. Panel edges must be supported. Leave a 1/8-inch gap between panels and nail not less than 1/2 inch from panel edges.

(NYS 2020) SECTION R403 FOOTINGS

R403.1 GENERAL.
ALL EXTERIOR WALLS SHALL BE SUPPORTED ON CONTINUOUS SOLID OR FULLY GROUTED MASONRY OR CONCRETE FOOTINGS, WOOD FOUNDATIONS, OR OTHER APPROVED STRUCTURAL SYSTEMS WHICH SHALL BE OF SUFFICIENT DESIGN TO ACCOMMODATE ALL LOADS ACCORDING TO SECTION R301 AND TO TRANSMIT THE RESULTING LOADS TO SOILS WITHIN THE LIMITATIONS AS DETERMINATES FROM THE CHARACTER OF THE SOIL. FOOTINGS SHALL BE SUPPORTED ON UNDISTURBED NATURAL SOILS OR ENGINEERED FILL.

R403.1.1 MINIMUM SIZE.
MINIMUM SIZES FOR CONCRETE AND MASONRY FOOTINGS SHALL BE AS SET FORTH IN TABLE R403.1 AND FIGURE R403.1 (1). THE FOOTING WIDTH, W, SHALL BE BASED ON THE LOAD BEARING VALUE OF THE SOIL IN ACCORDANCE WITH TABLE R401.4.1. SPREAD FOOTINGS SHALL BE AT LEAST 6 INCHES (152 MM) THICK. FOOTINGS PROJECTIONS, P, SHALL BE AT LEAST 2 INCHES (51 MM) AND SHALL NOT EXCEED THE THICKNESS OF THE FOOTING. THE SIZE OF FOOTINGS SUPPORTING PIERS AND COLUMNS SHALL BE BASED ON THE TRIBUTARY LOAD AND ALLOWABLE SOIL PRESSURE IN ACCORDANCE WITH TABLE R401.4.1. FOOTINGS FOR WOOD FOUNDATIONS SHALL BE IN ACCORDANCE WITH THE DETAILS SET FORTH IN SECTION R403.2, AND FIGURES R403.1 (2) AND R403.1 (3).

R403.1.2. CONTINUOUS FOOTING IN SEISMIC DESIGN CATEGORIES D0, D1 AND D2.
THE BRACED WALL PANELS AT THE EXTERIOR WALLS OF BUILDINGS LOCATED IN SEISMIC DESIGN CATEGORIES D0, D1 AND D2 SHALL BE SUPPORTED BY CONTINUOUS FOOTINGS. ALL REQUIRED INTERIOR BRACED WALL PANELS IN BUILDINGS WITH PLAN DIMENSIONS GREATER THAN 50 FEET (15 240 MM) SHALL ALSO BE SUPPORTED BY CONTINUOUS FOOTINGS.

R403.1.3 SEISMIC REINFORCING.
CONCRETE FOOTINGS LOCATED IN SEISMIC DESIGN CATEGORIES D0, D1 AND D2, AS ESTABLISHED IN TABLE R301.2 (1), SHALL HAVE MINIMUM REINFORCEMENT. BOTTOM REINFORCEMENT SHALL BE LOCATED A MINIMUM OF 3 INCHES (76 MM) CLEAR FROM THE BOTTOM OF THE FOOTING.

R403.1.4 VENTILATION.
THE UNDER-FLOOR SPACE BETWEEN THE BOTTOM OF THE FLOOR JOIST AND THE EARTH UNDER ANY BUILDING (EXCEPT SPACE OCCUPIED BY A BASEMENT) SHALL HAVE VENTILATION OPENINGS THROUGH FOUNDATION WALLS OR EXTERIOR WALLS. THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SQUARE FOOT (0.0929 M²) FOR EACH 150 SQUARE FEET (14 M²) OF UNDER-FLOOR SPACE AREA, UNLESS THE GROUND SURFACE IS COVERED BY A CLASS 1 VAPOR RETARDER MATERIAL. WHEN A CLASS 1 VAPOR RETARDER MATERIAL IS USED, THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SQUARE FOOT (0.0929 M²) FOR EACH 1,500 SQUARE FEET (140 M²) OF UNDER FLOOR SPACE AREA. ONE SUCH VENTILATING OPENING SHALL BE WITHIN 3 FEET (914 MM) OF EACH CORNER OF THE BUILDING.

TABLE R301.5 MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS /IN POUNDS PER SQUARE FOOT/

USE	LIVE LOAD
UNINHABITABLE ATTICS WITHOUT STORAGE	10
UNINHABITABLE ATTICS WITH LIMITED STORAGE	20
HABITABLE ATTICS/ATTICS W/FIXED STAIRS	30
BALCONIES (EXTERIOR) AND DECKS	40
FIRE ESCAPES	40
GUARDS AND HANDRAILS	200
GUARD INFILL COMPONENTS	50
PASSENGER VEHICLE GARAGES	50
SLEEPING ROOMS	30
STAIRS	40

NOTE:
PROJECT COMPLIES WITH 2020 NYSBC

WIND-BORNE DEBRIS REGION
THIS PROJECT IS NOT LOCATED IN A WIND BORNE DEBRIS REGION. CONTACT ARCHITECT FOR DESIGN LOADS.

TABLE R301.7 ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS

STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
RAFTERS HAVING SLOPES GREATER THAN 3:12 W/ NO FINISHED CEILING ATTACHED TO RAFTERS	L/180
INTERIOR WALLS AND PARTITIONS	H/180
FLOORS AND PLASTERED CEILINGS	L/360
CEILINGS WITH BRITTLE FINISHES (INC. PLASTER/STUCCO)	L/360
CEILINGS WITH FLEXIBLE FINISHES (INC. GYP. BOARD)	L/240
ALL OTHER STRUCTURAL MEMBERS	L/240
EXTERIOR WALLS - WINDS LOADS W/ PLASTER OR STUCCO FINISH	H/120
EXTERIOR WALLS - WINDS LOADS W/ OTHER BRITTLE FINISHES	H/120
EXTERIOR WALLS - WINDS LOADS W/FLEXIBLE FINISHES	H/120
LINTELS SUPPORTING MASONRY VENEER WALLS	L/600

(NYS 2020) TABLE R402.2 MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE

TYPE OR LOCATION OF CONCRETE CONSTRUCTION	MINIMUM SPECIFIED COMPRESSIVE STRENGTH (f' _c)		
	WEATHERING POTENTIAL		
	NEGLEGIBLE	MODERATE	SEVERE
BASEMENT WALLS, FOUNDATIONS AND OTHER CONCRETE NOT EXPOSED TO THE WEATHER.	2,500	2,500 ^a	2,500 ^c
BASEMENT SLABS AND INTERIOR SLABS ON GRADE, EXCEPT GARAGE FLOOR SLABS.	2,500	2,500	2,500 ^c
BASEMENT WALLS, FOUNDATION WALLS, EXTERIOR WALLS, AND OTHER VERTICAL CONCRETE WORK EXPOSED TO THE WEATHER.	2,500	3,000 ^d	3,000 ^d
PORCHES, CARPORT SLABS AND STEPS EXPOSED TO THE WEATHER, AND GARAGE FLOOR SLABS	2,500	3,000 ^{a,d,f}	3,500 ^{a,d,f}

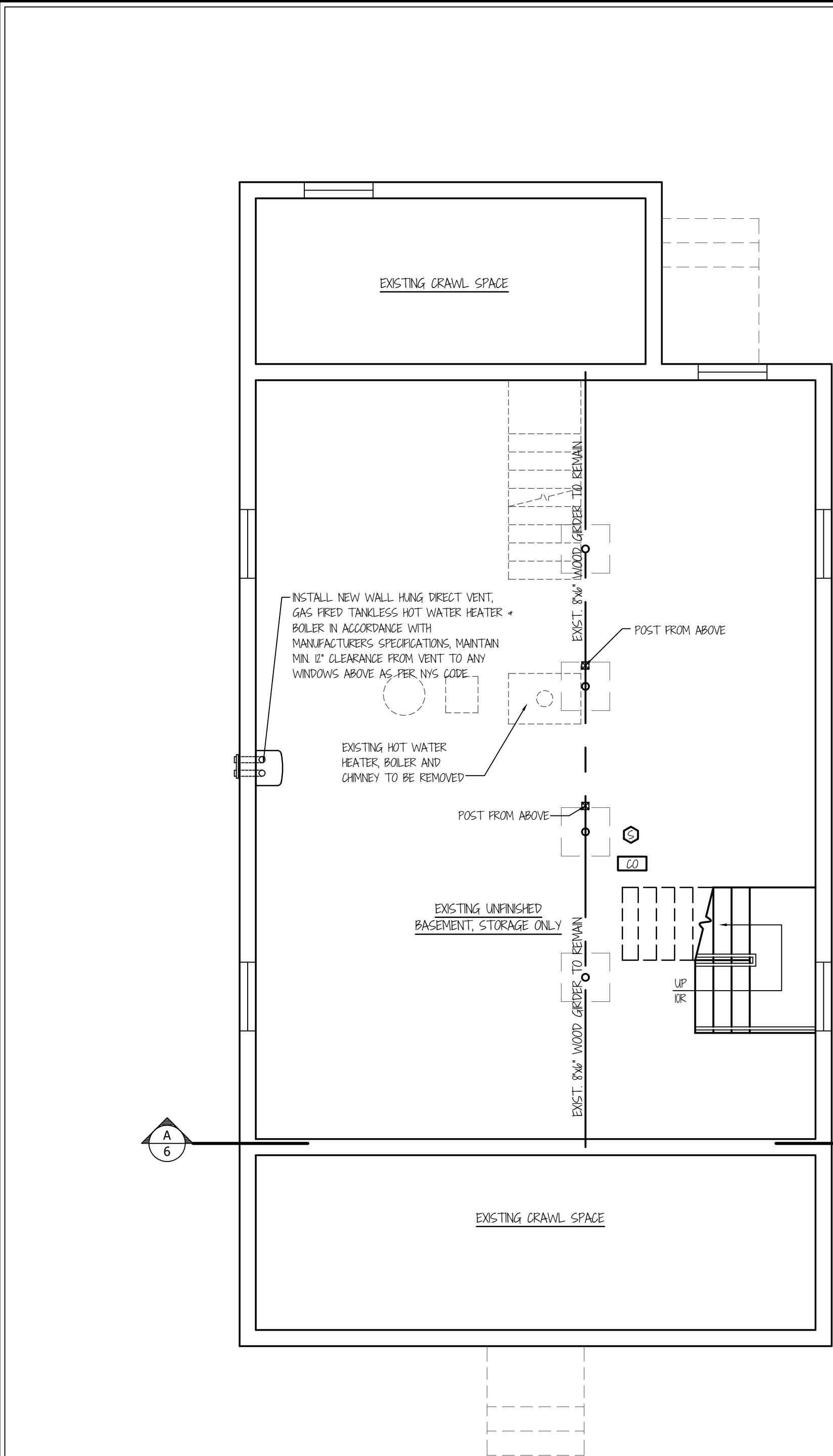
FOR SI: 1 POUND PER SQUARE INCH = 6.895 KPA.
STRENGTH AT 28 DAYS PSI.
SEE TABLE R301.2 (1) FOR WEATHERING POTENTIAL.
CONCRETE IN THESE LOCATIONS THAT MAY BE SUBJECT TO FREEZING AND THAWING DURING CONSTRUCTION SHALL BE AIR-ENTRAINED CONCRETE IN ACCORDANCE WITH FOOTNOTE D.
CONCRETE SHALL BE AIR-ENTRAINED. TOTAL AIR CONTENT (PERCENT BY VOLUME OF CONCRETE) TO NOT LESS THAN 5 PERCENT OR MORE THAN 7 PERCENT.
SEE SECTION R402.2 FOR MAXIMUM CEMENTATION MATERIALS CONTENT.
FOR GARAGE FLOORS WITH A STEEL TOWELED FINISH, REDUCTION OF THE TOTAL AIR CONTENT (PERCENT BY VOLUME OF CONCRETE) TO NOT BE LESS THAN 3 PERCENT IS PERMITTED IF THE SPECIFIED COMPRESSIVE STRENGTH OF THE CONCRETE IS INCREASED TO NOT LESS THAN 4,000 PSI.

9/6/2024	INITIAL DESIGN COMPLETION
10/2/2024	BUILDING DEPT. RESUBMISSION
12/30/2024	BUILDER'S SET
DATE	STATUS

PROJECT	
PROJECT LOCATION	1075 LAWRENCE ST FRANKLIN SQUARE, NY 11010 CONTACT: GARY & ROBIN ABRAHAMSEN PHONE: 516-319-2538
FIRM	R _H GROUP, LLC ARCHITECTS >< ENGINEERS 107 OCEANSIDE STREET, ISLIP TERRACE, NY 11752 PHONE: 631-708-4380 EMAIL: ROBERT.HEIN.RA@GMAIL.COM

SIGN & SEAL	BUILDING PERMIT / APPLICATION # 23-7888
DATE 12/30/2024	PROJECT #
DRAWN BY REH	CHECKED BY
DRAWING TITLE CODE ANALYSIS	
DRAWING # A 002	
SHEET # 2	OF 9

EXP. DATE: 09/30/2025



FOUNDATION PLAN

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

(2020 RCNYS R303.7) - INTERIOR STAIRWAY ILLUMINATION

INTERIOR STAIRWAYS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE TO ILLUMINATE THE LANDINGS AND READS. THE LIGHT SOURCE SHALL BE CAPABLE OF ILLUMINATING TREADS AND LANDINGS TO LEVELS OF NOT LESS THAN 1 FOOT-CANDLE (11 LUX) AS MEASURED AT THE CENTER OF TREADS AND LANDINGS. THERE SHALL BE A WALL SWITCH AT EACH FLOOR LEVEL TO CONTROL THE LIGHT SOURCE WHERE THE STAIRWAY HAS SIX OR MORE RISERS.

ALL PERMITS ARE SUBJECT TO FIELD INSPECTION.

NOTE:
THE ELECTRICAL SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH CHAPTERS 34/41 OF THE 2020 RCNYS

NOTE:
THE PLUMBING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH CHAPTERS 25/33 OF THE 2020 RCNYS

NOTE:
THE MECHANICAL SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH CHAPTERS 12/24 OF THE 2020 RCNYS

ELECTRICAL CONVENIENCE RECEPTACLE OUTLETS ARE TO BE PROVIDED, IN ACCORDANCE WITH SECTION E3901 (2020 RCNYS);

PROVIDE GROUND-FAULT AND ARC-FAULT CIRCUIT-INTERRUPTER PROTECTIONS IN ACCORDANCE WITH SECTION E3902 (2020 RCNYS);

AT LEAST ONE WALL-SWITCH-CONTROLLED LIGHTING OUTLET SHALL BE INSTALLED TO PROVIDE ILLUMINATION ON THE EXTERIOR SIDE OF EACH OUTDOOR EGRESS DOOR HAVING GRADE LEVEL EGRESS (TYP)

(2020 RCNYS) R303 - LIGHT, VENTILATION AND HEATING

R303.4 MECHANICAL VENTILATION
WHERE THE AIR INFILTRATION RATE OF A DWELLING UNIT IS 5 AIR EXCHANGES PER HOUR OR LESS WHERE TESTED WITH A BLOWER DOOR AT A PRESSURE OF 0.2 INCH W.G. (50 Pa) IN ACCORDANCE WITH SECTION N1102.4.1.2, THE DWELLING UNIT SHALL BE PROVIDED WITH A WHOLE-HOUSE MECHANICAL VENTILATION IN ACCORDANCE WITH SECTION M1507.3

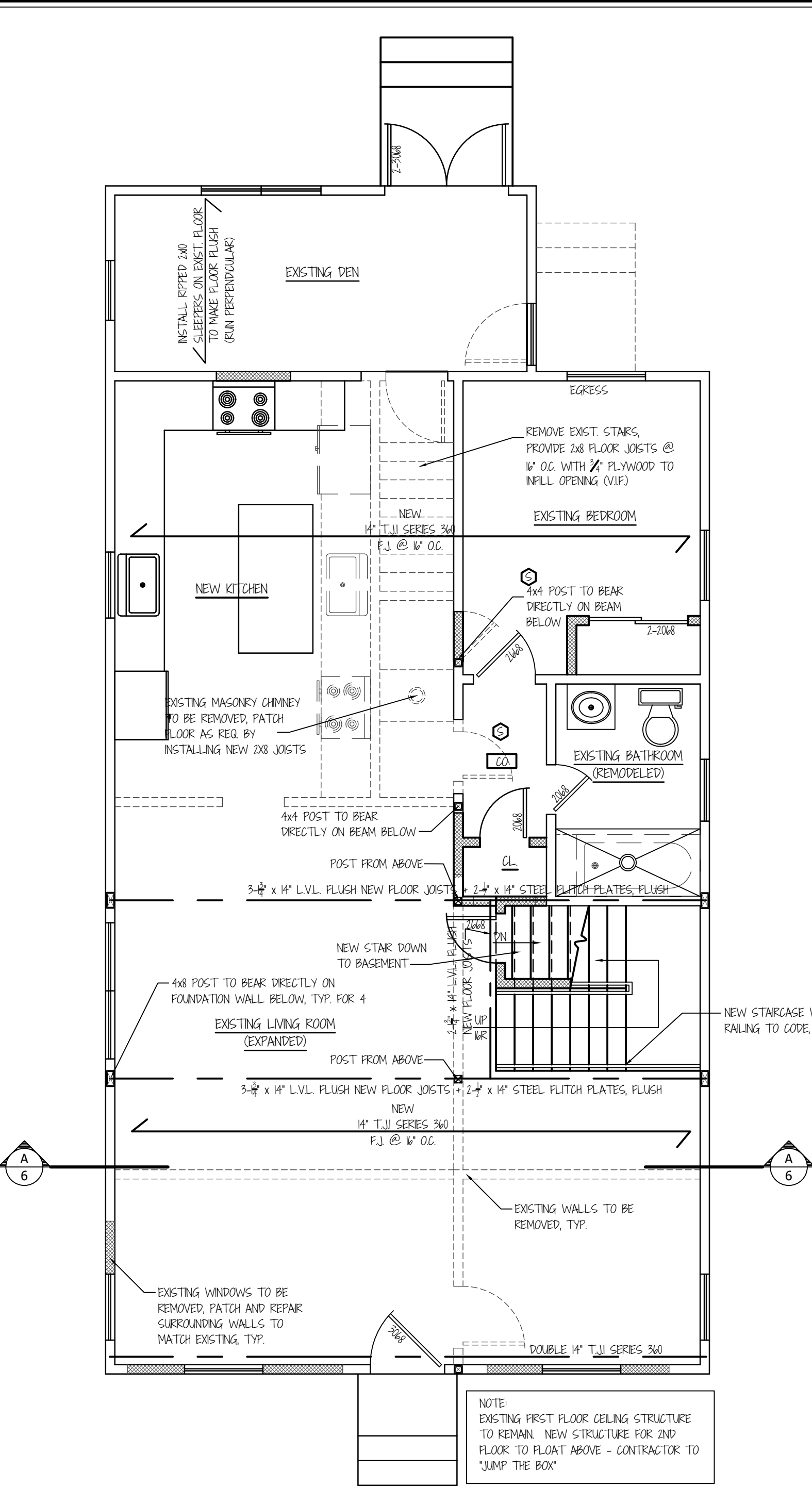
(2020 RCNYS) R303 - LIGHT, VENTILATION AND HEATING

R303.10 REQUIRED HEATING
WHERE THE WINTER DESIGN TEMPERATURE IN TABLE R301.2(1) IS BELOW 60°F (16°C), EVERY DWELLING UNIT SHALL BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A ROOM TEMPERATURE OF NOT LESS THAN 68°F (20°C) AT A POINT 3 FEET (914 mm) ABOVE THE FLOOR AND 2 FEET (610 mm) FROM EXTERIOR WALLS IN HABITABLE ROOMS AT THE DESIGN TEMPERATURE. THE INSTALLATION OF ONE OR MORE PORTABLE SPACE HEATERS SHALL NOT BE USED TO ACHIEVE COMPLIANCE WITH THIS SECTION

NOTE: CONTRACTOR TO PROVIDE WINDOW FALL PROTECTION IN DWELLING UNITS, WHERE THE TOP OF THE SILL OF AN OPERABLE WINDOW OPENING IS LOCATED LESS THAN 24 INCHES (610 MM) ABOVE THE FINISHED FLOOR AND GREATER THAN 72 INCHES (1829 MM) ABOVE THE FINISHED GRADE OR OTHER SURFACE BELOW ON THE EXTERIOR OF THE BUILDING, THE OPERABLE WINDOW SHALL COMPLY WITH ONE OF THE FOLLOWING:

OPERABLE WINDOW OPENINGS WILL NOT ALLOW A 4-INCH-DIAMETER (102 MM) SPHERE TO PASS THROUGH WHERE THE OPENINGS ARE IN THEIR LARGEST OPENED POSITION. OPERABLE WINDOWS ARE PROVIDED WITH WINDOW FALL PREVENTION DEVICES THAT COMPLY WITH ASTM F2090.
OPERABLE WINDOWS ARE PROVIDED WITH WINDOW OPENING CONTROL DEVICES THAT COMPLY WITH SECTION R312.2.2.

- ALL LAMINATED GIRDERS TO BE 2.0E G-P LAM LVL.



FIRST FLOOR PLAN

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

SYMBOL LEGEND	
	SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	50 CFM MECHANICAL VENT
	DEMOLITION
	EXISTING
	NEW

DESIGN LOADS		
LIVE	DEAD	
30	10	ROOF FROM FLAT TO 4:12 (0-200 SQ.FT.)
40	10	DECKS / PORCHES
40	10	ROOMS OTHER THAN SLEEPING ROOMS
30	10	SLEEPING ROOMS
20	10	ATTICS WITH STORAGE
10	10	ATTICS WITHOUT STORAGE

R807.1 ATTIC ACCESS.
BUILDINGS WITH COMBUSTIBLE CEILING OR ROOF CONSTRUCTION SHALL HAVE AN ATTIC ACCESS OPENING TO ATTIC AREAS THAT HAVE A VERTICAL HEIGHT OF 30 INCHES (762 MM) OR GREATER OVER AN AREA OF NOT LESS THAN 30 SQUARE FEET (2.8 M²). THE VERTICAL HEIGHT SHALL BE MEASURED FROM THE TOP OF THE CEILING FRAMING MEMBERS TO THE UNDERSIDE OF THE ROOF FRAMING MEMBERS. THE ROUGH-FRAMED OPENING SHALL BE NOT LESS THAN 22 INCHES BY 30 INCHES (559 MM BY 762 MM) AND SHALL BE LOCATED IN A HALLWAY OR OTHER LOCATION WITH READY ACCESS. WHERE LOCATED IN A WALL, THE OPENING SHALL BE NOT LESS THAN 22 INCHES WIDE BY 30 INCHES HIGH (559 MM WIDE BY 762 MM HIGH), WHERE THE ACCESS IS LOCATED IN A CEILING, MINIMUM UNOBSTRUCTED HEAD-ROOM IN THE ATTIC SPACE SHALL BE 30 INCHES (762 MM) AT SOME POINT ABOVE THE ACCESS MEASURED VERTICALLY FROM THE BOTTOM OF CEILING FRAMING MEMBERS. SEE SECTION M1305.1.3 FOR ACCESS REQUIREMENTS WHERE MECHANICAL EQUIPMENT IS LOCATED IN ATTICS.

LUMBER SPECIFICATION:

- * DOUG - FIR LUMBER #2 WITH FB 875 OR EQUAL
- * DESIGN LOADS TAKEN AS PER WESTERN WOOD PRODUCTS ASSOCIATION IN ACCORDANCE WITH ASTM STANDARDS

ALL MEANS OF EGRESS, STAIRWAYS AND RAILINGS MUST CONFORM TO 2020 RCNYS R311 AND 312

(2020 RCNYS) R311 MEANS OF EGRESS

R311.1 - MEANS OF EGRESS
DWELLINGS SHALL BE PROVIDED WITH A MEANS OF EGRESS IN ACCORDANCE WITH THIS SECTION. THE MEANS OF EGRESS SHALL PROVIDE A CONTINUOUS AND UNOBSTRUCTED PATH OF VERTICAL AND HORIZONTAL EGRESS TRAVEL FROM ALL PORTIONS OF THE DWELLING TO THE REQUIRED EGRESS DOOR WITHOUT REQUIRING TRAVEL THROUGH A GARAGE. THE REQUIRED EGRESS DOOR SHALL OPEN DIRECTLY INTO A PUBLIC WAY OR TO A YARD OR COURT THAT OPENS TO A PUBLIC WAY.

(2020 RCNYS) R310 EMERGENCY ESCAPE AND RESCUE OPENINGS

R310.1 - EMERGENCY ESCAPE AND RESCUE OPENING REQUIRED
BASEMENTS, HABITABLE ATTICS AND EVERY SLEEPING ROOM SHALL HAVE NOT LESS THAN ONE OPERABLE EMERGENCY ESCAPE AND RESCUE OPENING. WHERE BASEMENTS CONTAIN ONE OR MORE SLEEPING ROOMS, AN EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL OPEN DIRECTLY INTO A PUBLIC WAY, OR TO A YARD OR COURT THAT OPENS TO PUBLIC WAY (EXCEPTION: SEE CODE SECTION)

R310.2.1 - MINIMUM OPENING AREA
EMERGENCY AND ESCAPE RESCUE OPENING SHALL HAVE A NET CLEAR OPENING OF NOT LESS THAN 5.7 SQUARE FEET (0.530 m²). THE NET CLEAR OPENING DIMENSIONS REQUIRED BY THIS SECTION SHALL BE OBTAINED BY THE NORMAL OPERATION OF THE EMERGENCY ESCAPE AND RESCUE OPENING FROM THE INSIDE. THE NE CLEAR HEIGHT OPENING SHALL BE NOT LESS THAN 24 INCHES (610 mm) AND THE NET CLEAR WIDTH SHALL BE NOT LESS THAN 20 INCHES (508 mm) (EXCEPTION: SEE CODE SECTION)

R310.2.2 - WINDOW SILL HEIGHT
WHERE A WINDOW IS PROVIDED AS THE EMERGENCY ESCAPE AND RESCUE OPENING, IT SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES (1118 mm) ABOVE THE FLOOR; WHERE THE SILL HEIGHT IS BELOW GRADE, IT SHALL BE PROVIDED WITH A WINDOW WELL IN ACCORDANCE WITH SECTION R310.2.3

R310.2.5 - REPLACEMENT WINDOWS
REPLACEMENT WINDOWS INSTALLED IN BUILDINGS MEETING THE SCOPE OF THIS CODE SHALL BE EXEMPT FROM THE MAXIMUM SILL HEIGHT REQUIREMENTS OF SECTIONS R310.1 AND SECTIONS R310.2.1 AND R310.2.2, PROVIDED THE REPLACEMENT WINDOW MEETS THE FOLLOWING CONDITIONS:

1. THE REPLACEMENT WINDOW IS THE MANUFACTURER'S LARGEST STANDARD SIZE WINDOW THAT WILL FIT WITHIN THE EXISTING FRAME OR EXISTING ROUGH OPENING. THE REPLACEMENT WINDOW IS OF THE SAME OPERATING STYLE AS THE EXISTING WINDOW OR A STYLE THAT PROVIDES FOR AN EQUAL OR GREATER OPENING AREA THAN THE EXISTING WINDOW.
2. THE REPLACEMENT WINDOW IS NOT PART OF A CHANGE OF OCCUPANCY

R310.5 - DWELLING ADDITIONS
WHERE DWELLING ADDITIONS OCCUR THAT CONTAIN SLEEPING ROOMS, AND EMERGENCY ESCAPE AND RESCUE OPENING SHALL BE PROVIDED IN EACH NEW SLEEPING ROOM. WHERE DWELLING ADDITIONS OCCUR THAT HAVE BASEMENTS, AN EMERGENCY ESCAPE AND RESCUE OPENING SHALL BE PROVIDED IN THE NEW BASEMENT. (EXCEPTIONS)

3. AN EMERGENCY ESCAPE AND RESCUE OPENING IS NOT REQUIRED IN A NEW BASEMENT THAT CONTAINS A SLEEPING ROOM WITH AN EMERGENCY ESCAPE AND RESCUE OPENING.
4. AN EMERGENCY ESCAPE AND RESCUE OPENING IS NOT REQUIRED IN A NEW BASEMENT WHERE THERE IS AN EMERGENCY AND RESCUE OPENING IN AN EXISTING BASEMENT THAT IS ACCESSIBLE FROM THE NEW BASEMENT

(2020 RCNYS) R314 SMOKE ALARMS AND HEAT DETECTION

SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

1. IN EACH SLEEPING ROOM.
2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.
3. ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS BUT NOT INCLUDING CRAWL SPACES AND UNINHABITABLE ATTICS. IN DWELLINGS OR DWELLING UNITS WITH SPLIT LEVELS AND WITHOUT AN INTERIOR DOOR BETWEEN THE ADJACENT LEVELS, A SMOKE ALARM INSTALLED ON THE UPPER LEVEL SHALL SUFFICE FOR THE ADJACENT LOWER LEVEL PROVIDED THAT THE LOWER LEVEL IS LESS THAN ONE FULL STORY BELOW THE UPPER LEVEL.
4. SMOKE ALARMS SHALL BE INSTALLED NOT LESS THAN 3' HORIZONTALLY FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER UNLESS THIS WOULD PREVENT PLACEMENT OF A SMOKE ALARM REQUIRED BY SECTION R314.3 (IRC)
5. WHEN MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING UNIT THE ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT.

* ALL SMOKE DETECTORS TO BE INTERCONNECTED AND HARDWIRED

(2020 RCNYS) R315 CARBON MONOXIDE ALARMS

CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

- WITHIN EACH DWELLING UNIT ON ANY STORY HAVING A SLEEPING AREA

1. IN DWELLING UNITS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE VICINITY OF THE BEDROOMS
2. WHERE A FUEL BURNING APPLIANCE IS LOCATED WITHIN A BEDROOM OR ITS ATTACHED BATHROOM, A CARBON MONOXIDE DETECTOR ALARM SHALL BE INSTALLED WITHIN THE BEDROOM.

EQUIPMENT. CARBON MONOXIDE ALARMS SHALL BE LISTED AND LABELED AS COMPLYING WITH UL 2034 COMBINATION CARBON MONOXIDE DETECTORS SHALL BE LISTED AND LABELED AS COMPLYING WITH UL 2034 AND UL 217 CARBON MONOXIDE ALARMS, CARBON MONOXIDE DETECTORS AND ALARM CONTROL UNITS SHALL BE INSTALLED IN ACCORDANCE WITH THIS SECTION AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
* ALL SMOKE DETECTORS TO BE INTERCONNECTED AND HARDWIRED

HANDRAILS SHALL BE PROVIDED ON AT LEAST ONE SIDE OF EACH CONTINUOUS RUN OF TREADS OR FLIGHT WITH FOUR OR MORE RISERS (2020 RCNYS R311.7.8)

* RAILING TO BE 3'-0" IN HEIGHT AND HAVE A TYPE 1 HANDRAIL AS PER CODE R312.1.2 (2020 RCNYS)

(2020 RCNYS R311.7.5) - STAIR TREADS AND RISERS

R311.7.5.1 RISERS
THE RISER HEIGHT SHALL BE NOT MORE THAN 8 1/4 INCHES (209 MM). THE RISER SHALL BE MEASURED VERTICALLY BETWEEN LEADING EDGES OF THE ADJACENT TREADS. THE GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH (9.5 MM). RISERS SHALL BE VERTICAL OR SLOPED FROM THE UNDERSIDE OF THE NOSING OF THE TREAD ABOVE AT AN ANGLE NOT MORE THAN 30 DEGREES (0.51 RAD) FROM THE VERTICAL. AT OPEN RISERS, OPENINGS LOCATED MORE THAN 30 INCHES (762 MM), AS MEASURED VERTICALLY, TO THE FLOOR OR GRADE BELOW SHALL NOT PERMIT THE PASSAGE OF A 4-INCH-DIAMETER (102 MM) SPHERE. EXCEPTIONS:

1. THE OPENING BETWEEN ADJACENT TREADS IS NOT LIMITED ON SPIRAL STAIRWAYS.
2. THE RISER HEIGHT OF SPIRAL STAIRWAYS SHALL BE IN ACCORDANCE WITH SECTION R311.7.10.1.

R311.7.5.2 TREADS
THE TREAD DEPTH SHALL BE NOT LESS THAN 9 INCHES (229 MM). THE TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AND AT A RIGHT ANGLE TO THE TREAD'S LEADING EDGE. THE GREATEST TREAD DEPTH WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH (9.5 MM).

DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS

PROVIDE 2" X 4" COLLAR TIES 48" O.C. @ ALL ROOFS. SET TOP OF TIES IN UPPER 1/3 OF THE DISTANCE BETWEEN B.O. RIDGE AND T.O. CEILING JOISTS.

CONTRACTOR TO VERIFY THAT ALL UNTREATED WOOD 8" MINIMUM FROM GRADE

ROOF COVERINGS TO BE INSTALLED AS PER SECTION R905 (2020 RCNYS)

CONTRACTOR TO VENT CONCEALED RAFTER SPACE ABOVE INSULATION TO THE EXTERIOR

CORROSION- RESISTIVE FLASHING TO BE PROVIDED UNDER AND AT THE ENDS OF MASONRY, WOOD, OR METAL COPINGS AND SILLS. ALL MATERIALS IN CONTACT WITH PRESSURE TREATED LUMBER (STRAP, TECO, NAILS, FLASHING) SHALL BE APPROVED FOR SUCH USE. (CODE R703.4 2020 RCNYS)

PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION P2605 (2020 RCNYS);

50 cfm MECHANICAL VENT/DIRECTLY TO OUTSIDE AIR (AT BATHROOM AREAS)

NOTE:
CLOTHES DRYER EXHAUST TO BE INSTALLED AS PER (2020 RCNYS) SECTION M1502
- DRYER TO HAVE INDEPENDENT VENT TO OUTSIDE AIR AND INSTALLED AS PER MANUFACTURERS SPECIFICATIONS

ALL LUMBER THAT COMES IN CONTACT WITH MASONRY (CONCRETE) TO BE A.C.C. LUMBER

SURFACE DRAINAGE SHALL BE DIVERTED TO A STORM SEWER CONVEYANCE OR OTHER APPROVED POINT OF COLLECTION SO AS TO NOT CREATE A HAZARD. LOTS SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE AWAY FROM FOUNDATION WALL SHALL FALL A MINIMUM OF 6" WITHIN THE FIRST 10'

- * SOLID POST UNDER FULL WIDTH OF GIRDER @ EACH END
- * SOLID POST DOWN TO FOUNDATION OR GIRDER UNDER ALL GIRDER POSTS.

CONC. FOUNDATION WALL TO BE DAMPROOFED FROM THE TOP OF THE FOOTING TO THE FINISHED GRADE. THE MEMBRANE SHALL CONSIST OF NO LESS THAN 3/8" (9.5mm) PORTLAND CEMENT PARPING APPLIED TO THE EXTERIOR OF THE WALL. THE PARPING SHALL BE DAMPROOFED WITH A BITUMINOUS COATING, 3 POUNDS PER SQUARE YARD OF ACRYLIC MODIFIED CEMENT, 1/8" (3.22mm) COAT OF SURFACE-BONDING MORTAR COMPLYING WITH ASTM C 887 (AS PER 2020 RCNYS)

(NYS 2020) TABLE R401.4.1 PRESUMPTIVE LOAD BEARING VALUES OF FOUNDATION MATERIALS

CLASS OF MATERIAL	LOAD-BEARING PRESSURE (PSF)
CRYSTALLINE BEDROCK	12,000
SEDIMENTARY AND FOLIATED ROCK	4,000
SANDY GRAVEL AND/OR GRAVEL (GW & GP)	3,000
SANDY, SILTY SAND, CLAYEY SAND, SILTY GRAVEL AND CLAYEY GRAVEL (SW, SP, SM, SC, GM, GC)	2,000
CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, AND SANDY SILT (CL, ML, MH, AND CH)	1,500

FOR SI: 1 PSF = 0.0479 KPA
A. WHEN SOIL TEST ARE REQUIRED BY SECTION R401.4, THE ALLOWABLE BEARING CAPACITIES OF THE SOIL SHALL BE PART OF THE RECOMMENDATIONS
B. WHERE IN-PLACE SOILS WITH AN ALLOWABLE BEARING CAPACITY OF LESS THAN 1,500 PSF ARE LIKELY TO BE PRESENT AT THE SITE, THE ALLOWABLE BEARING CAPACITY SHALL BE DETERMINED BY SOILS INVESTIGATION.

(NYS 2020) TABLE R401.4.1 MINIMUM WIDTH OF CONCRETE OR MASONRY FOOTINGS (IN.)

MINIMUM WIDTH OF CONCRETE OR MASONRY FOOTINGS (IN.)				
	LOAD-BEARING VALUE OF SOIL (PSF)			
	1,500	2,000	3,000	4,000
CONVENTIONAL LIGHT-FRAME CONSTRUCTION				
1-STORY	12	12	12	12
2-STORY	12	12	12	12
3-STORY	23	17	12	12
4-INCH BRICK VENEER OVER LIGHT FRAME OR 8-INCH HOLLOW CONCRETE MASONRY				
1-STORY	12	12	12	12
2-STORY	21	16	12	12
3-STORY	32	24	16	12
8-INCH SOLID OR FULLY GROUTED MASONRY				
1-STORY	16	12	12	12
2-STORY	29	21	14	12
3-STORY	42	32	21	16

FOR SI: 1 IN. = 25.4 MM, 1 PSF = 0.0479 KPA
A. WHERE MINIMUM FOOTING WIDTH IS 12 IN., USE OF A SINGLE WYTHE OF SOLID OR FULLY GROUTED 12-INCH NOMINAL CONCRETE MASONRY UNITS IS PERMITTED.

9/6/2024	INITIAL DESIGN COMPLETION
10/2/2024	BUILDING DEPT. RESUBMISSION
12/30/2024	BUILDER'S SET
DATE	STATUS

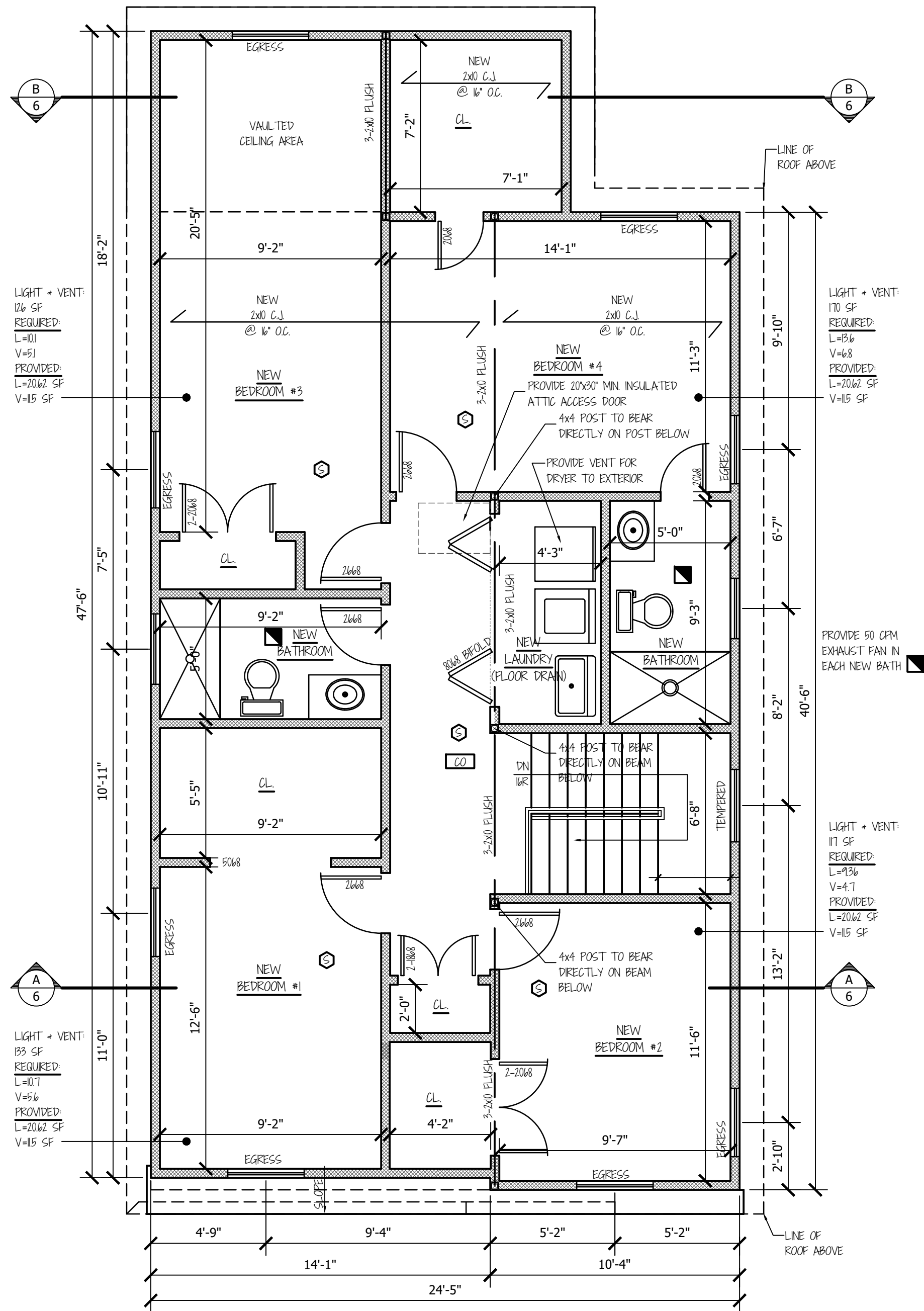
SECOND STORY ADDITION

PROJECT LOCATION
1075 LAWRENCE ST
FRANKLIN SQUARE, NY 11010
CONTACT: GARY & ROBIN ABRAHAMSEN
PHONE: 516-319-2538

FIRM
R_H GROUP, LLC
ARCHITECTS >< ENGINEERS
107 OCEANSIDE STREET, ISLIP TERRACE, NY 11752
PHONE: 631-708-4380
EMAIL: ROBERT.HEIN.RA@GMAIL.COM

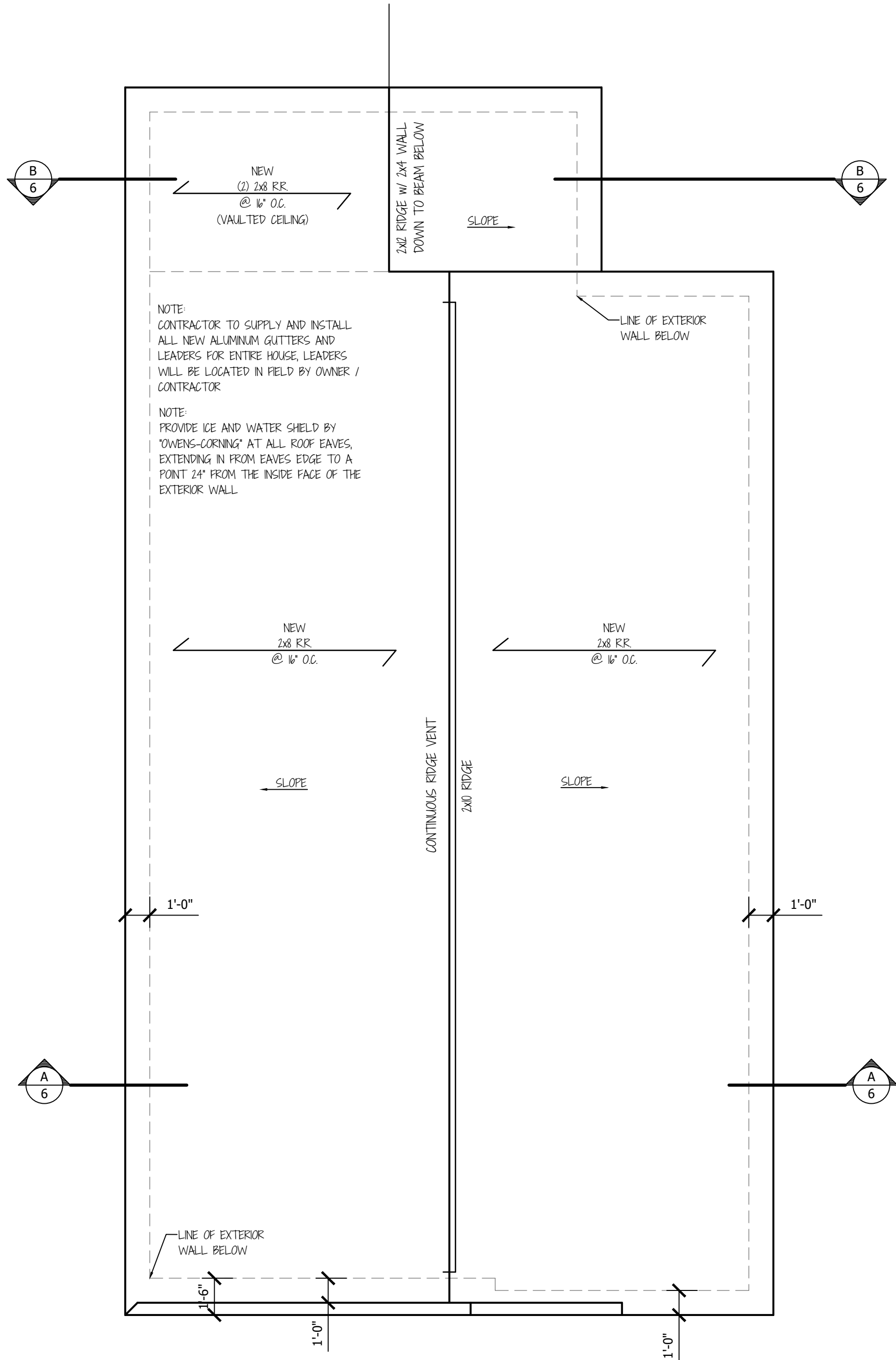
ALL DRAWINGS AND WRITTEN MATERIAL HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE LICENSED PROFESSIONAL, AND THE SAME MAY NOT BE DUPLICATED, USED, OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE LICENSED PROFESSIONAL.

SIGN & SEAL	BUILDING PERMIT / APPLICATION # 23-7888
DATE 12/30/2024	PROJECT #
DRAWN BY REH	CHECKED BY
DRAWING TITLE FLOOR PLANS	
DRAWING # A 101	
SHEET # 3	OF 9



SECOND FLOOR PLAN

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



ROOF PLAN

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

TABLE 1: MINIMUM INSULATION THICKNESS FOR CIRCULATING HOT WATER PIPES (IEC R403.4)

TABLE 1: MINIMUM INSULATION THICKNESS FOR CIRCULATING HOT WATER PIPES (IEC R403.4)	
FLUID TEMP. RANGE	MINIMUM REQ'D. INSUL.
ABOVE 105° F	R-3
BELOW 55° F	R-3

TABLE 2: MINIMUM INSULATION THICKNESS FOR HVAC PIPES (IEC R403.5.3)

INSULATION FOR HOT WATER PIPE WITH A MINIMUM THERMAL RESISTANCE OF R-3 SHALL BE APPLIED TO THE FOLLOWING:	
1. PIPING 3/4" DIAM. AND LARGER	4. PIPING FROM THE WATER HEATER TO A DISTRIBUTION MANIFOLD
2. PIPING SERVING MORE THAN 1 DWELLING UNIT	5. PIPING LOCATED UNDER A FLOOR SLAB
3. PIPING LOCATED OUTSIDE THE CONDITIONED SPACE	6. BURIED IN PIPING

ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS* AS PER TABLE R301.7 OF THE RESIDENTIAL CODE OF NEW YORK

STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
RAFTERS HAVING SLOPES GREATER THAN 3/12 WITH NO FINISHED CEILING ATTACHED TO RAFTERS	L/180
INTERIOR WALLS AND PARTITIONS	H/180
FLOORS AND PLASTERED CEILINGS	L/360
ALL OTHER STRUCTURAL MEMBERS	L/240
EXTERIOR WALLS WITH PLASTER OR STUCCO FINISH	H/360
EXTERIOR WALLS - WIND LOADS* WITH BRITTLE FINISHES	H/240
EXTERIOR WALLS - WIND LOADS* WITH FLEXIBLE FINISHES	H/120
CEILINGS W/BRITTLE FINISHES INCL. (PLASTER-STUCCO)	L/360
CEILINGS W/FLEXIBLE FINISHES (INCLUDING GYP BOARD)	L/240
LINTELS SUPPORTING MASONRY VENEER WALLS	L/600

NOTE: L=SPAN LENGTH, H=SPAN HEIGHT
a. THE WIND LOAD SHALL BE PERMITTED TO BE TAKEN AS 0.7 TIMES THE COMPONENT AND CLADDING LOADS FOR THE PURPOSES OF THE DETERMINING DEFLECTION LIMITS HEREIN

DESIGN LOADS AND SPECIFICATIONS

GROUND SNOW LOAD	20 PSF
CEILING LIVE LOAD	20 PSF
SECOND FLOOR LIVE LOAD	30 PSF
FIRST FLOOR LIVE LOAD	40 PSF
WIND SPEED	110 MPH
SEISMIC DESIGN CATEGORY	C
WEATHER INDEX	SEVERE
FROST LINE DEPTH	3 FEET
TERMITE	MODERATE TO HEAVY
DECAY	SLIGHT TO MODERATE
WINTER DESIGN TEMPERATURE	11
ICE SHIELD UNDERLAYMENT REQUIRED	YES

TABLE R301.2.2.2.1 WALL BRACING ADJUSTMENT FACTORS BY ROOF COVERING DEAD LOAD

	ROOF/CEILING DEAD LOAD	ROOF/CEILING DEAD LOAD
WALL SUPPORTING	15 PSF OR LESS	25 PSF
ROOF ONLY	1.0	1.2
ROOF PLUS ONE STORY	1.0	1.1

For SI: 1 pound per square foot = 0.049 kN/m²
a. Linear interpolation shall be permitted.

WARM ROOF SNOW LOADS: AS PER TABLE ASCE 7-98 SECT. 7.4 AND FIGURE 7-2

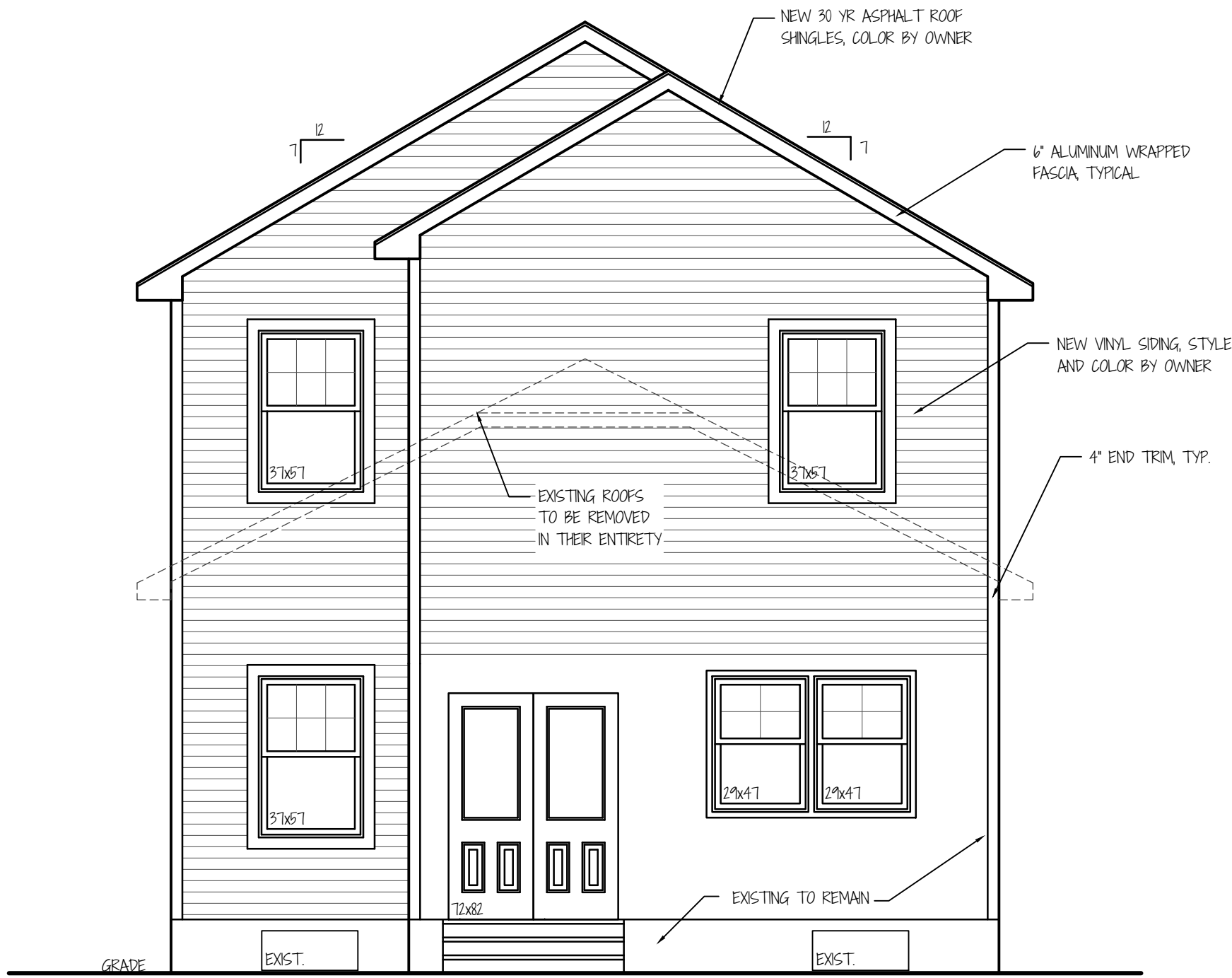
SLOPE	CS	GSL	LIVE LOAD
3:12	(0.85) X	(45 PSF)	40 PSF
4:12	(0.8) X	(45 PSF)	36 PSF
5:12	(0.74) X	(45 PSF)	34 PSF
6:12	(0.67) X	(45 PSF)	30 PSF
7:12	(0.6) X	(45 PSF)	27 PSF
8:12	(0.56) X	(45 PSF)	25 PSF
9:12	(0.51) X	(45 PSF)	23 PSF
10:12	(0.48) X	(45 PSF)	22 PSF
11:12	(0.44) X	(45 PSF)	20 PSF
12:12	(0.38) X	(45 PSF)	18 PSF

MINIMUM DESIGN DEAD LOADS* AS PER TABLE C3-1 ASCE 7-05

COMPONENT	LOAD (psf)
CEILING S	
GYPSON BOARD (1/2-in.)	7.0
GYPSON BOARD (5/8-in.)	9.0
SUSPENDED STEEL CHANNEL SYSTEM	2.0
COVERINGS, ROOF, AND WALL	
ASPHALT SHINGLES	2.0
GYPSON SHEATHING, 1/2-in.	2.0
PLYWOOD (per 1/2-in.)	1.6
RIGID INSULATION, 1/2-in.	0.75
SINGLE-PLY SHEET WATERPROOFING MEMBRANE	0.7
BITUMINOUS, SMOOTH SURFACE WATERPROOFING MEMBRANE	1.5
FLOORS AND FLOOR FINISHES	
CERAMIC OR QUARRY TILE (3/4-in.) ON 1/2-in. MORTAR BED	16.0
HARDWOOD FLOORING, 7/16-in.	4.0
LINOLEUM OR ASPHALT TILE, 1/4-in.	1.0
SUBFLOORING, 3/4-in.	3.0
FLOORS, WOOD JOIST (no plaster)	12-in. O.C. 16-in. O.C.
2x6	6 5
2x8	6 6
2x10	7 6
2x12	8 7
FRAME PARTITIONS	
WOOD OR STEEL STUDS, 1/2-in. GYP. BOTH SIDES	8.0
FRAME WALLS	
EXTERIOR STUD WALLS:	
2x4 @ 16-in., 5/8-in. GYPSON, INSULATED, 3/8-in. SIDING	11.0
2x6 @ 16-in., 5/8-in. GYPSON, INSULATED, 3/8-in. SIDING	12.0
EXTERIOR STUD WALLS WITH BRICK VENEER	48.0

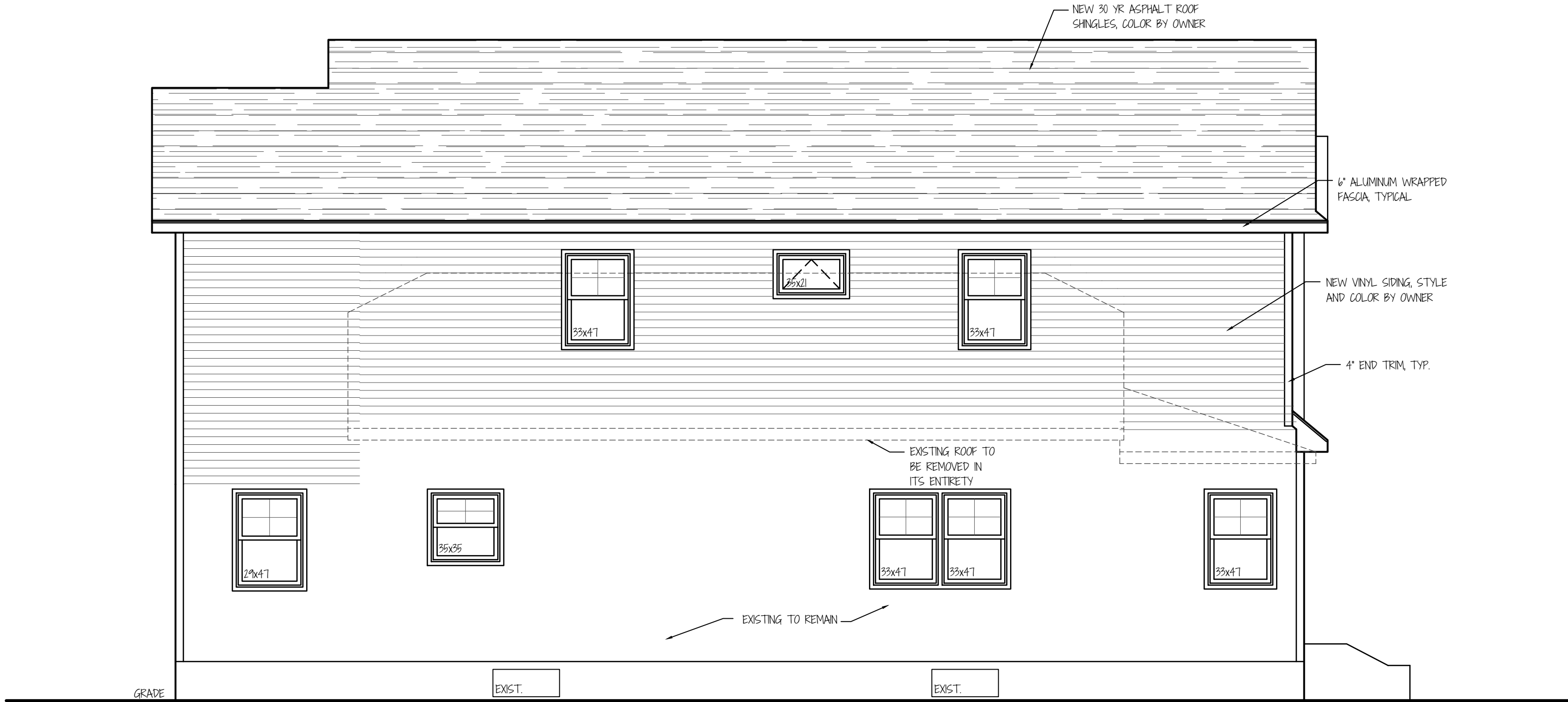
* WEIGHTS OF MASONRY INCLUDE MOTAR BUT NOT PLASTER. FOR PLASTER, ADD 5 lb/ft² FOR EACH FACE PLASTERED. VALUES GIVEN REPRESENT AVERAGES. IN SOME CASES THERE IS A CONSIDERABLE RANGE OF WEIGHT FOR THE SAME CONSTRUCTION.

9/6/2024	INITIAL DESIGN COMPLETION
10/2/2024	BUILDING DEPT. RESUBMISSION
12/30/2024	BUILDER'S SET
DATE	STATUS
PROJECT	
SECOND STORY ADDITION	
PROJECT LOCATION	
1075 LAWRENCE ST FRANKLIN SQUARE, NY 11010 CONTACT: GARY & ROBIN ABRAHAMSEN PHONE: 516-319-2538	
FIRM	
R _H 3 GROUP, LLC ARCHITECTS >< ENGINEERS 107 OCEANSIDE STREET, ISLIP TERRACE, NY 11752 PHONE: 631-708-4380 EMAIL: ROBERT.HEIN.RA@GMAIL.COM	
ALL DRAWINGS AND WRITTEN MATERIAL HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE LICENSED PROFESSIONAL, AND THE SAME MAY NOT BE DUPLICATED, USED, OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE LICENSED PROFESSIONAL.	
SIGN & SEAL	BUILDING PERMIT / APPLICATION # 23-7888
DATE 12/30/2024	PROJECT #
DRAWN BY REH	CHECKED BY
DRAWING TITLE SECOND FLOOR AND ROOF PLAN	
DRAWING # A 102	
SHEET # 4	OF 9



REAR (SOUTH) ELEVATION

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

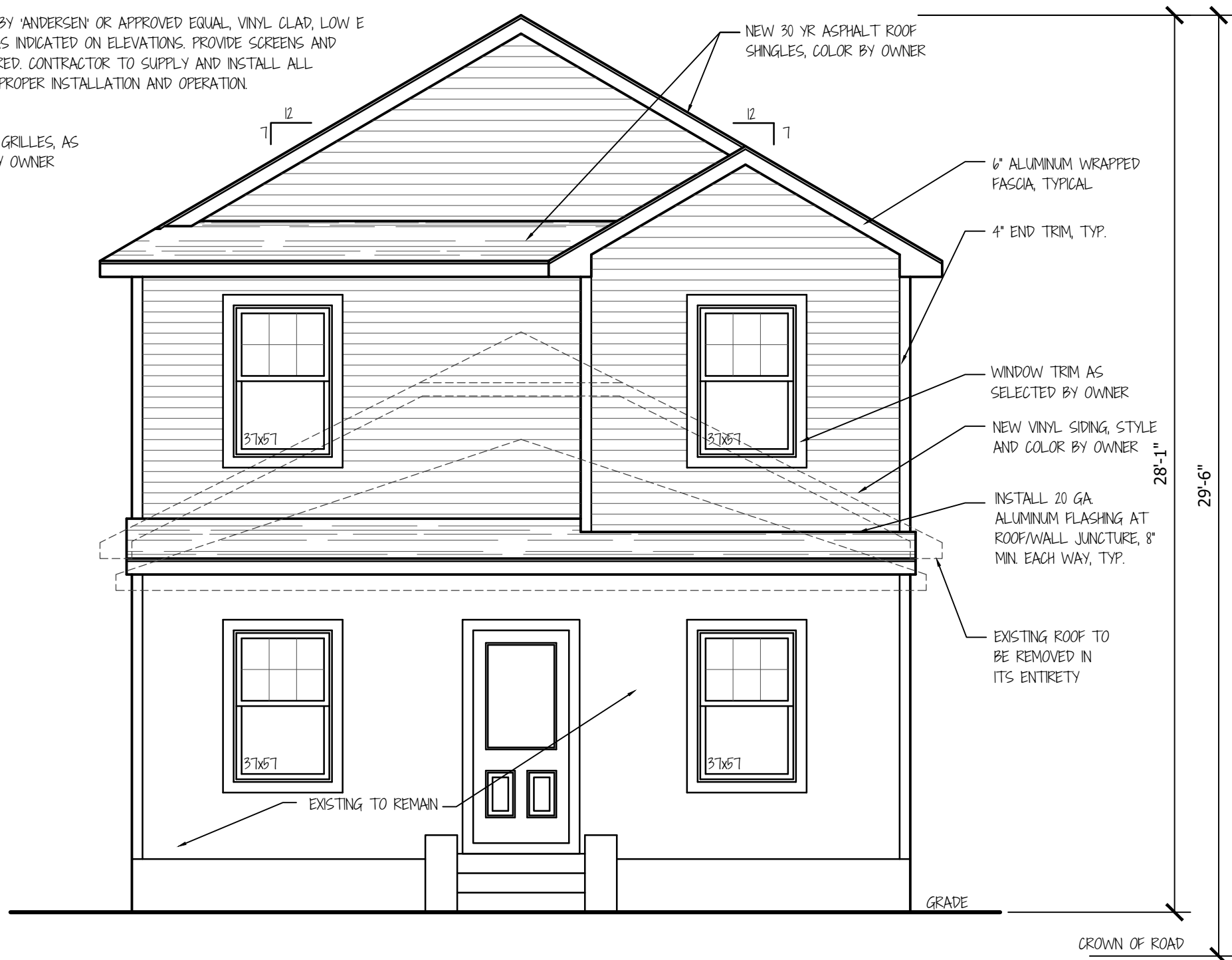


SIDE (EAST) ELEVATION

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

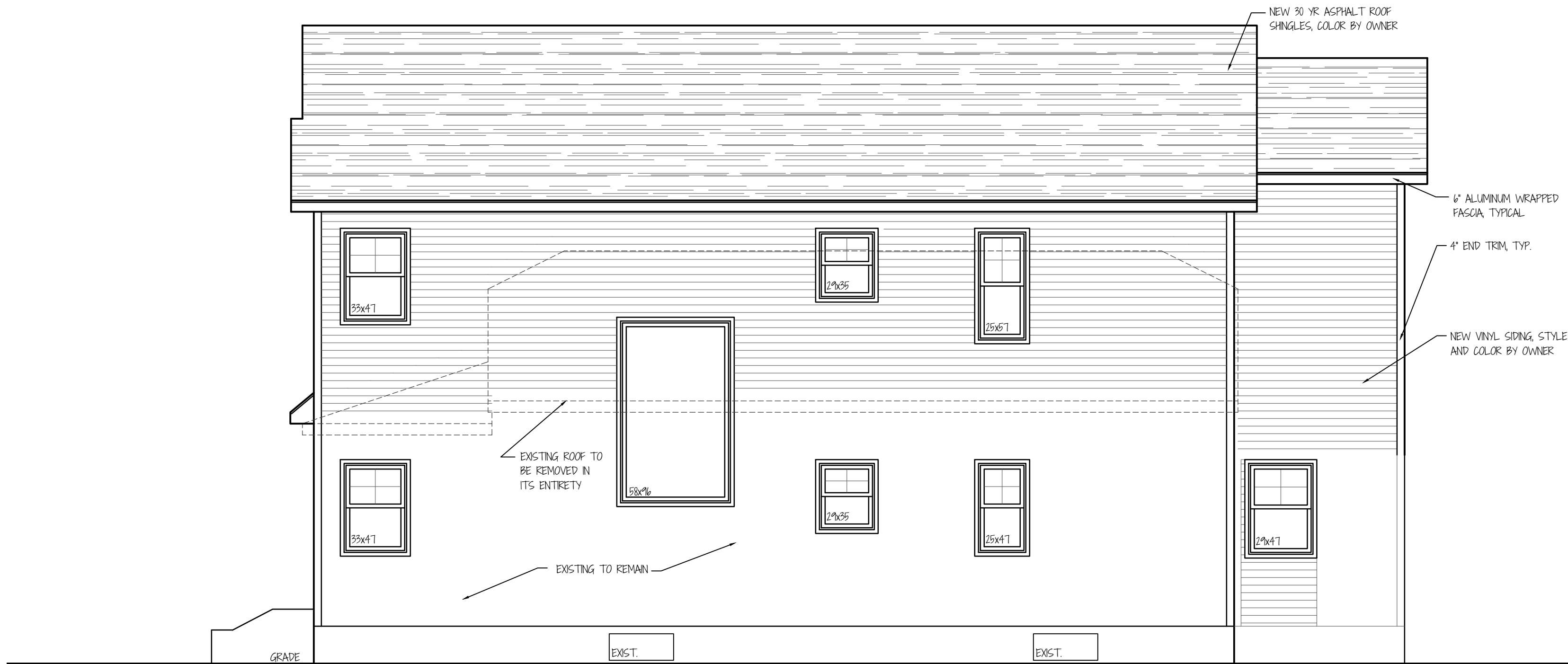
WINDOW NOTE:
ALL NEW WINDOWS TO BE BY ANDERSEN OR APPROVED EQUAL, VINYL CLAD, LOW E GLAZING, MODEL NUMBERS AS INDICATED ON ELEVATIONS. PROVIDE SCREENS AND EXTENSION JAMBS, AS REQUIRED. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY HARDWARE FOR PROPER INSTALLATION AND OPERATION.

NOTE:
SUPPLY + INSTALL WINDOW GRILLES, AS INDICATED, + AS DIRECTED BY OWNER.



FRONT (NORTH) ELEVATION

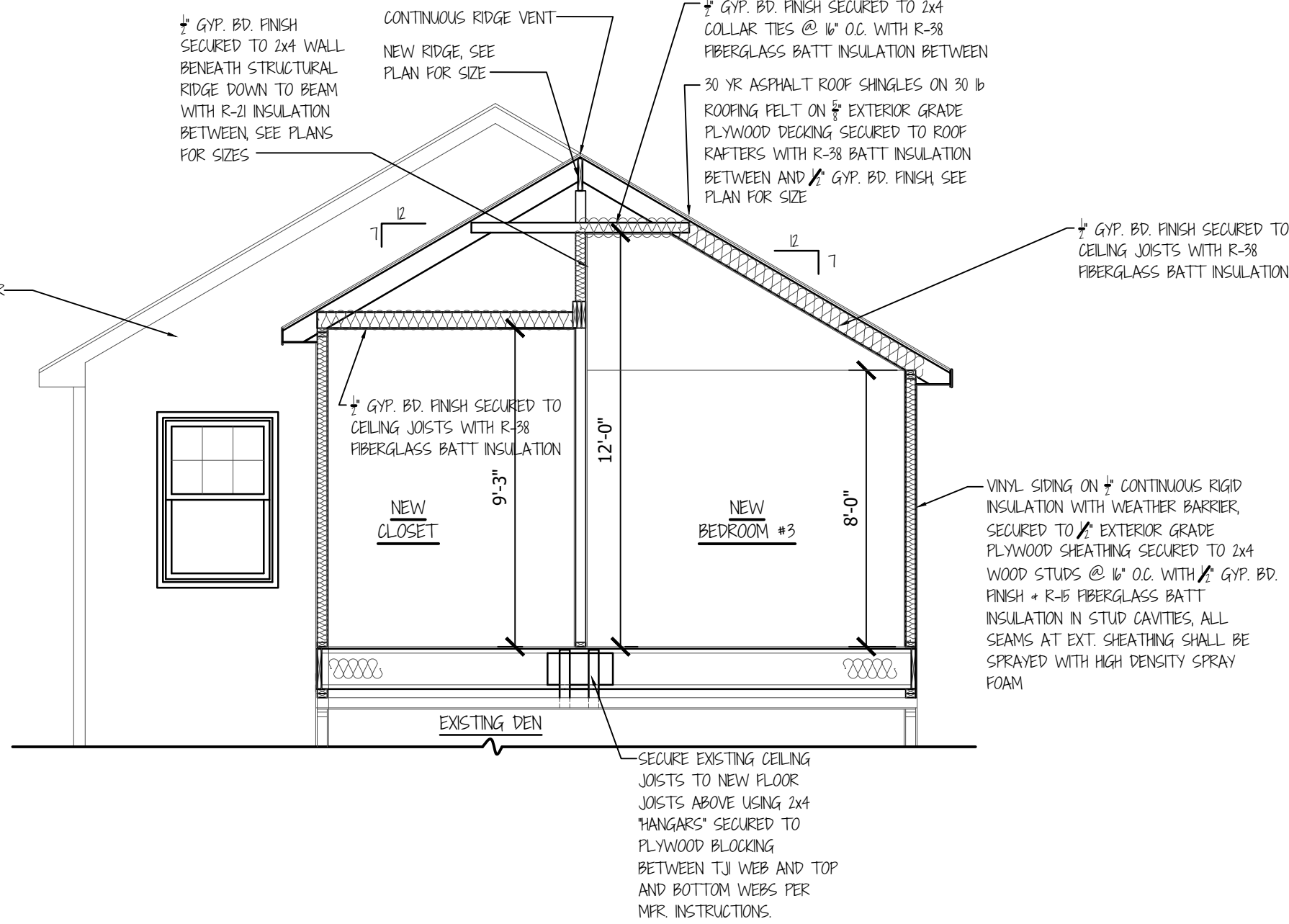
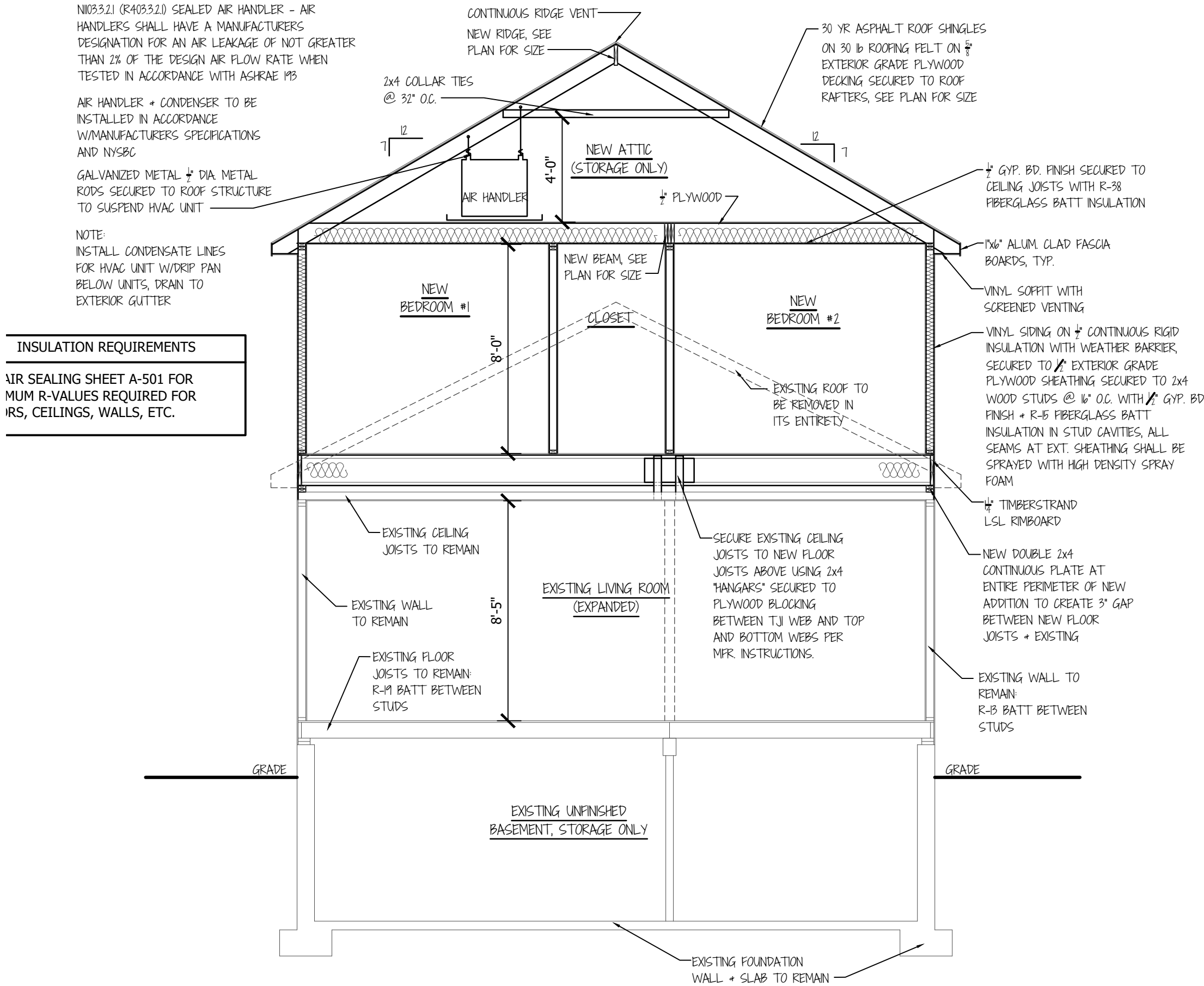
SCALE: 1/4" = 1'-0"



SIDE (WEST) ELEVATION

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

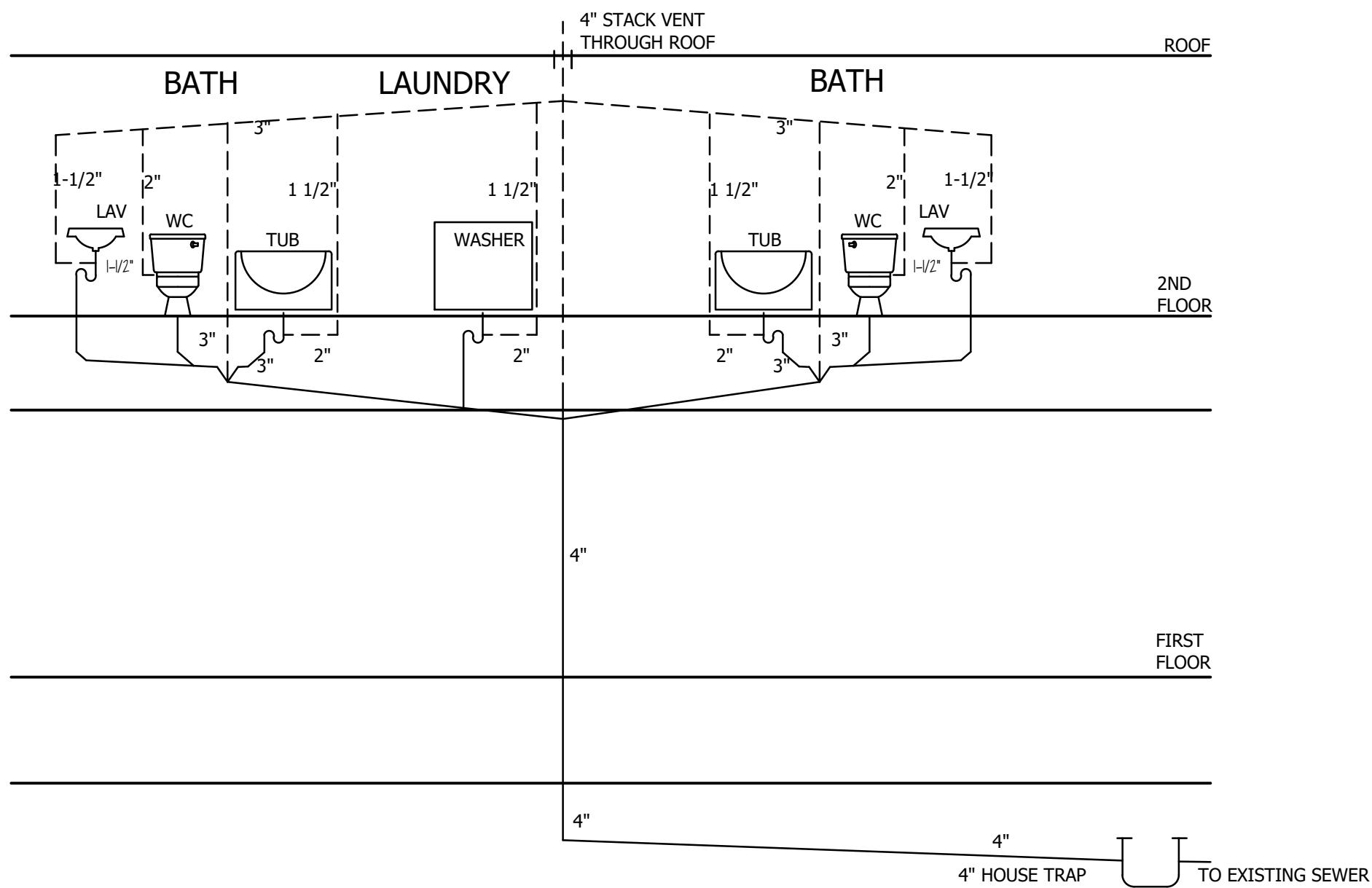
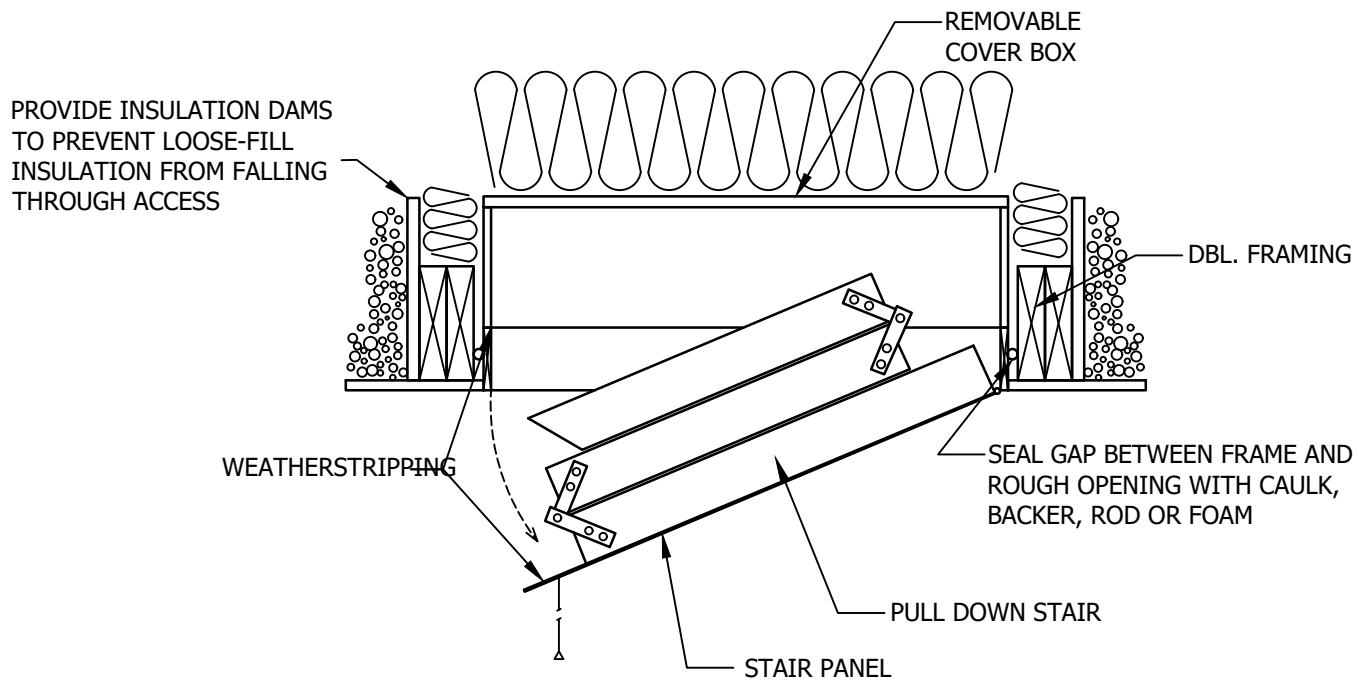
9/6/2024	INITIAL DESIGN COMPLETION
10/2/2024	BUILDING DEPT. RESUBMISSION
12/30/2024	BUILDER'S SET
DATE	STATUS
PROJECT	
SECOND STORY ADDITION	
PROJECT LOCATION	
1075 LAWRENCE ST FRANKLIN SQUARE, NY 11010 CONTACT: GARY & ROBIN ABRAHAMSEN PHONE: 516-319-2538	
FIRM	
R _H 3 GROUP, LLC ARCHITECTS >< ENGINEERS 107 OCEANSIDE STREET, ISLIP TERRACE, NY 11752 PHONE: 631-708-4380 EMAIL: ROBERT.HEIN.RA@GMAIL.COM	
ALL DRAWINGS AND WRITTEN MATERIAL HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE LICENSED PROFESSIONAL, AND THE SAME MAY NOT BE DUPLICATED, USED, OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE LICENSED PROFESSIONAL.	
SIGN & SEAL	BUILDING PERMIT / APPLICATION #
	23-7888
	DATE 12/30/2024 PROJECT #
	DRAWN BY REH CHECKED BY
	DRAWING TITLE
ELEVATIONS	
DRAWING #	
A 201	
SHEET # 5 OF 9	
EXP. DATE: 09/30/2025	



SECTION 'A'

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

NOTE:
SEE PLANS FOR TYPICAL
CONSTRUCTION NOTES, ELEVATIONS
AND SECTIONS ARE MERELY TO SHOW
ADDITIONAL INFORMATION.



PLUMBING RISER DIAGRAM

ALL FIXTURES SUPPLY LINES TO BE 1/2" COPPER EXCEPT LAV. AND W.C. TO BE 3/8" COPPER. ALL WATER LINES UNDER CONCRETE TO BE "K" COPPER C.O.S. LOCATED AS PER N.Y.S. CODE.

SECTION P3103.1- ROOF EXTENSION
OPEN VENT PIPES THAT EXTEND THROUGH A ROOF SHALL BE TERMINATED NOT LESS THAN 6 INCHES ABOVE THE ROOF OR 6 INCHES ABOVE THE ANTICIPATED SNOW ACCUMULATION, WHICHEVER IS GREATER, EXCEPT THAT WHERE A ROOF IS TO BE USED FOR ANY PURPOSE OTHER THAN WEATHER PROTECTION, THE VENT EXTENSION SHALL BE RUN NOT LESS THAN 7 FEET ABOVE THE ROOF. OPEN VENT PIPES THAT EXTEND THROUGH A ROOF SHALL BE TERMINATED NOT LESS THAN 12 INCHES ABOVE THE ROOF.

SECTION P3103.2- FROST CLOSURE
WHERE THE 97.5-PERCENT VALUE FOR OUTSIDE DESIGN TEMPERATURE IS 0°F OR LESS, EVERY VENT EXTENSION THROUGH A ROOF OR WALL SHALL BE NOT LESS THAN 3 INCHES IN DIAMETER. ANY INCREASE IN THE SIZE OF THE VENT SHALL BE MADE INSIDE THE STRUCTURE NOT LESS THAN 1 FOOT BELOW THE ROOF OR INSIDE THE WALL. SINCE THE OUTSIDE DESIGN TEMPERATURE IS -13°F, EVERY VENT EXTENSION THROUGH A ROOF OR WALL SHALL BE NOT LESS THAN 3 INCHES IN DIAMETER.

TABLE P3201.7
SIZE OF TRAPS FOR PLUMBING FIXTURES

PLUMBING FIXTURE	TRAP SIZE MINIMUM (INCHES)
BATHTUB (WITH OR WITHOUT SHOWER HEAD AND/OR WHIRLPOOL ATTACHMENTS)	1 1/2"
BIDET	1 1/4"
CLOTHES WASHER STANDPIPE	2"
DISHWASHER (ON SEPARATE TRAP)	1 1/2"
FLOOR DRAIN	2"
KITCHEN SINK (ONE OR TWO TRAPS, WITH OR WITHOUT DISHWASHER AND FOOD WASTE DISPOSER)	1 1/2"
LAUNDRY TUB (ONE OR MORE COMPARTMENTS)	1 1/2"
LAVATORY	1 1/4"
SHOWER (BASED ON THE TOTAL FLOW RATE THROUGH SHOWERHEADS AND BODYSPRAYS) FLOW RATE: 5.7 GPM AND LESS MORE THAN 5.7 GPM UP TO 12.3 GPM MORE THAN 12.3 GPM UP TO 25.8GPM MORE THAN 25.8 GPM UP TO 55.6 GPM	1 1/2" 2" 3" 4"

FOR SI: 1
INCH=25.4mm

9/6/2024	INITIAL DESIGN COMPLETION
10/2/2024	BUILDING DEPT. RESUBMISSION
12/30/2024	BUILDER'S SET
DATE	STATUS

PROJECT	SECOND STORY ADDITION
---------	-----------------------

PROJECT LOCATION	1075 LAWRENCE ST FRANKLIN SQUARE, NY 11010 CONTACT: GARY & ROBIN ABRAHAMSEN PHONE: 516-319-2538
------------------	--

FIRM	R_H3 GROUP, LLC ARCHITECTS >< ENGINEERS 107 OCEANSIDE STREET, ISLIP TERRACE, NY 11752 PHONE: 631-708-4380 EMAIL: ROBERT.HEIN.RA@GMAIL.COM
------	--

ALL DRAWINGS AND WRITTEN MATERIAL HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE LICENSED PROFESSIONAL, AND THE SAME MAY NOT BE DUPLICATED, USED, OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE LICENSED PROFESSIONAL.	
SIGN & SEAL	BUILDING PERMIT / APPLICATION # 23-7888
DATE 12/30/2024	PROJECT #
DRAWN BY REH	CHECKED BY
DRAWING TITLE SECTIONS AND DETAILS	
DRAWING # A 301	
SHEET # 6	OF 9

EXP. DATE: 09/30/2025

[NY] TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT										
CLIMATE ZONE	FENESTRATION U-FACTOR ^a	SKYLIGHT ^a U-FACTOR	GLAZED FENESTRATION SHGC ^{a, b}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ^c	FLOOR R-VALUE	BASEMENT ^d WALL R-VALUE	SLAB ^e R-VALUE & DEPTH	CRAWL SPACE ^f WALL R-VALUE
1	NR	0.75	0.25	30	13	3/4	13	0	0	0
2	0.40	0.65	0.25	38	13	4/6	13	0	0	0
3	0.32	0.55	0.25	38	20 or 13 + 5 ^h	8/13	19	5/13 ^f	0	5/13
4 except Marine	0.32	0.55	0.40	49	20 or 13 + 5 ^h	8/13	19	10/13	10, 2 ft	10/13
5 and Marine 4	0.30	0.55	NR	49	20 or 13 + 5 ^h	13/17	30 ^g	15/19	10, 2 ft	15/19
6	0.30	0.55	NR	49	20 + 5 ^h or 13 + 10 ^h	15/20	30 ^g	15/19	10, 4 ft	15/19
7 and 8	0.30	0.55	NR	49	20 + 5 ^h or 13 + 10 ^h	19/21	38 ^g	15/19	10, 4 ft	15/19

For SI: 1 foot = 304.8 mm.

NR = Not Required.

a. R-values are minimums. U-factors and SHGC are maximums. Where insulation is installed in a cavity that is less than the label or design thickness of the insulation, the installed R-value of the insulation shall be not less than the R-value specified in the table.

b. The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.

c. "10/13" means R-10 continuous insulation on the interior or exterior of the home or R-13 cavity insulation on the interior of the basement wall. "15/19" means R-15 continuous insulation on the interior or exterior of the home or R-19 cavity insulation on the interior of the basement wall. Alternatively, compliance with "15/19" shall be R-13 cavity insulation on the interior or exterior of the home.

d. R-5 insulation shall be provided under the full slab area of a heated slab in addition to the required slab edge insulation R-value for slabs, as indicated in the table. The slab edge insulation for heated slabs shall not be required to extend below the slab.

e. Reserved.

f. Reserved.

g. Alternatively, insulation sufficient to fill the framing cavity providing not less than an R-value of R-19.

h. The first value is cavity insulation; the second value is continuous insulation. Therefore, as an example, "13+5" means R-13 cavity insulation plus R-5 continuous insulation.

i. Mass walls shall be in accordance with Section N1102.2.5. The second R-value applies where more than half of the insulation is on the interior of the mass wall.

[NY] TABLE N1102.1.4 (R402.1.4) EQUIVALENT U-FACTORS								
CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS WALL U-FACTOR ^a	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE WALL U-FACTOR
4	0.32	0.55	0.026	0.060	0.098	0.047	0.059	0.065
5	0.30	0.55	0.026	0.060	0.082	0.033	0.050	0.055
6	0.30	0.55	0.026	0.045	0.060	0.033	0.050	0.055

a. Nonfenestration U-factors shall be obtained from measurement, calculation or an approved source.

b. Mass walls shall be in accordance with Section N1102.2.5 (R402.2.5). Where more than half the insulation is on the interior, the mass wall U-factors shall not exceed 0.087 in Climate Zone 4 except Marine; 0.065 in Climate Zone 5 and Marine 4; and 0.057 in Climate Zone 6.

c. In warm-humid locations as defined by Figure N1101.7 and Table N1101.7, the basement wall U-factor shall not exceed 0.360.

TABLE N1102.4.1.1 (R402.4.1.1) AIR BARRIER AND INSULATION INSTALLATION

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.
Ceiling/attic	The air barrier in any dropped ceiling or soffit shall be aligned with the insulation and any gaps in the air barrier sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of not less than R-3 per inch. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and in continuous alignment with the air barrier.
Windows, skylights and doors	The space between framing and skylights, and the jambs of windows and doors, shall be sealed.	—
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.
Floors including cantilevered floors and floors above garages.	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking. Alternatively, floor framing cavity insulation shall be in contact with the top side of sheathing or continuous insulation installed on the underside of floor framing, and extending from the bottom to the top of all perimeter floor framing members.
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Crawl space insulation, where provided instead of floor insulation, shall be permanently attached to the walls.
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.	—
Narrow cavities	—	Batts to be installed in narrow cavities shall be cut to fit or narrow cavities shall be filled with insulation that on installation readily conforms to the available cavity space.
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.	—
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall be airtight and IC rated.
Plumbing and wiring	—	In exterior walls, batt insulation shall be cut neatly to fit around wiring and plumbing or insulation that on installation, readily conforms to available space, shall extend behind piping and wiring.
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate the wall from the shower or tub.	Exterior walls adjacent to showers and tubs shall be insulated.
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical and communication boxes. Alternatively, air-sealed boxes shall be installed.	—
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the subfloor, wall covering or ceiling penetrated by the boot.	—
Concealed sprinklers	Where required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.	—

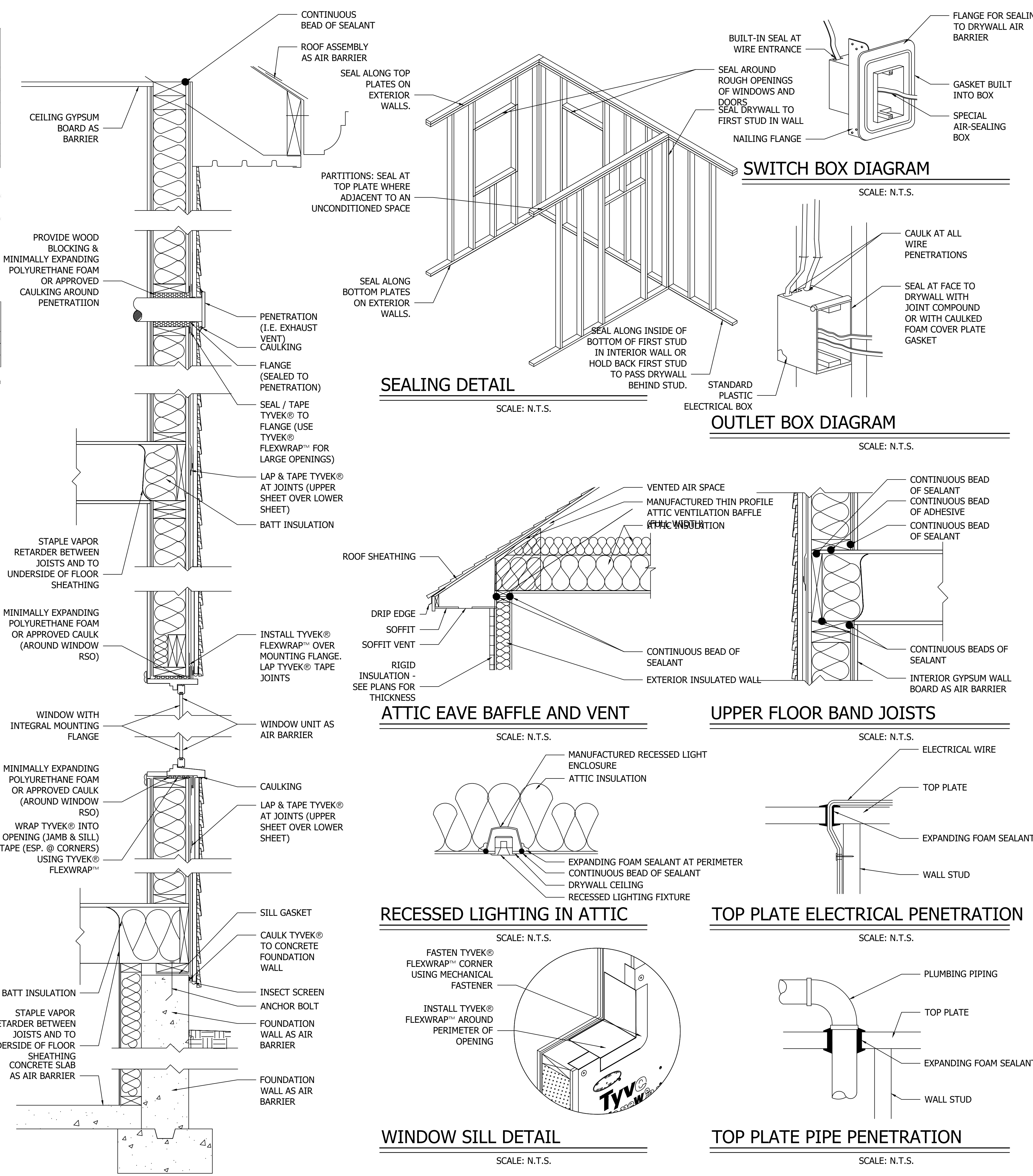
a. Inspection of log walls shall be in accordance with the provisions of ICC-400.

[NY] N1102.4.1.2 (R402.4.1.2) Testing.

The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding three air changes per hour. Testing shall be conducted in accordance with RESNET/ICC 380, ASTM E779 or ASTM E1827 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

During testing:

- Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
- Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
- Interior doors, where installed at the time of the test, shall be open.
- Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
- Heating and cooling systems, where installed at the time of the test, shall be turned off.
- Supply and return registers, where installed at the time of the test, shall be fully open.



- AIR SEALING GENERAL NOTES
- SEAL ALL TYVEK® JOINTS AND PENETRATIONS WITH APPROVED TAPE. (I.E. DUPONT™ CONTRACTOR TAPE).
 - FASTEN TYVEK® TO SHEATHING WITH LARGE HEAD NAILS OR USE NAILS WITH LARGE PLASTIC WASHER HEADS. (I.E. DUPONT™ WRAPCAPS)
 - LOCAL LAWS, ZONING, AND BUILDING CODES VARY AND THEREFORE GOVERNS OVER MATERIAL SELECTION AND DETAILING SHOWN BELOW.

9/6/2024	INITIAL DESIGN COMPLETION
10/2/2024	BUILDING DEPT. RESUBMISSION
12/30/2024	BUILDER'S SET
DATE	STATUS
PROJECT	SECOND STORY ADDITION
PROJECT LOCATION	1075 LAWRENCE ST FRANKLIN SQUARE, NY 11010 CONTACT: GARY & ROBIN ABRAHAMSEN PHONE: 516-319-2538
FIRM	R_H3 GROUP, LLC ARCHITECTS >> ENGINEERS 107 OCEANSIDE STREET, ISLIP TERRACE, NY 11752 PHONE: 631-708-4380 EMAIL: ROBERT.HEIN.RA@GMAIL.COM
ALL DRAWINGS AND WRITTEN MATERIAL HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE LICENSED PROFESSIONAL, AND THE SAME MAY NOT BE DUPLICATED, USED, OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE LICENSED PROFESSIONAL.	
SIGN & SEAL	BUILDING PERMIT / APPLICATION # 23-7888
DATE 12/30/2024	PROJECT #
DRAWN BY REH	CHECKED BY
DRAWING TITLE	AIR SEALING
DRAWING #	A 501
SHEET #	7 OF 9
EXP. DATE: 09/30/2025	

Plate nail, 16d (0.135" x 3 1/2") at 16" on-center

Blocking panel:
1 1/2" TJP Rim Board,
1 1/2" TimberStrand® LSL, or TJI® joist

Web stiffener required on both sides at A2W ONLY

Rim-to-joist nail
Toe nail, 10d (0.131" x 3") at 6" on-center

Web stiffener required on both sides at A1W ONLY

A1 **A1W***

Plate nail, 16d (0.135" x 3 1/2") at 16" on-center

Web stiffener required on both sides at A2W ONLY

TJI® rim joist

Toe nail, 10d (0.131" x 3") at 6" on-center

A2 **A2W***

Must have 1 1/2" minimum joist bearing at ends. Attach rim joist per A3 detail.

A3 **A3.1** **A3.2** **A3.3***

When sheathing thickness exceeds 7/8", trim sheathing tongue at rim board

Plate nail - 16d (0.135" x 3 1/2") at 16" on-center*

Floor panel nail - 8d (0.131" x 2 1/2") at 6" on-center*

Web Stiffeners required each side at A3_W

1 1/2" TJP Rim Board (A3/A3W only) or 1 1/2" TimberStrand® LSL.

Toe nail - 10d (0.131" x 3") at 6" on-center*

2x stud wall at 16" on-center

Sheathing - boundary nails, 8d (0.131" x 2 1/2") at 4" on-center

When sheathing thickness exceeds trim sheathing at rim board

Install joist support

CS Use 2x4 minimum squash blocks to transfer load around TJI® joint

E1 E1W

E2 E3 E4

BEAM DETAILS

BEARING AT

(3) When connecting 4-ply members, nail each ply to the other and offset nail rows by 2" from the rows in the ply below.

NAILING AT BEARING (FLOOR)

TJ® Joist to Bearing Plate

1½" TJ® Rim Board or
1½" TimberStrand® LSL

1½" minimum end bearing
single-family applications

**Shear transfer: Connections equivalent
to floor panel nailing schedule.**

Rim to TJ® Joist

1½" TJ® Rim Board,
1½" TimberStrand® LSL or
TJ® 110 rim joist:

One 10d (0.131" x 3") nail
into each flange
TJ® 210, 230, and 360 rim
joist:
One 16d (0.135" x 3½") nail
into each flange

Locate rim board joint between joists.

Squash Blocks to TJ® Joist (Load bearing wall above)

One 10d (0.128" x 3")
nail into each flange

Also see detail B2

Joist may be shifted up to 3" if
floor panel edge is supported and
span rating is not exceeded.
Do not cut joist flanges.

Additional
floor panel
or 1" span

INSTALLATION TIPS

- Subfloor adhesive will improve joist-to-subfloor bond, but may not be required.
- Squash blocks and blocking B1 and B2 are required for vertical loads (dead and live) of a TJ® joist (with web stiffeners) for squash blocks or blocking per
- When joists are doubled at non-partitions, space joists apart the plumbing or HVAC.
- Additional joist at plumbing drop

BEAM ATTACHMENT AT BEARING

One 10d (0.128" x 3") nail each
side of member at bearing,
1½" minimum from end

Drive nails at an
angle to minimize
splitting of plate

1½" TJ® Rim Board or
1½" TimberStrand® LSL

See framing plan (if applicable) or
Weyerhaeuser *Installation Guide for Floor
and Roof Framing, TJ-9000*. For minimum
end and intermediate bearing lengths.

Top View

BEAM ON COLUMN CAP

P1

COLUMN BASE

P2


ELEVATED COLUMN BASE

P3

Optional
non-shrink
grout

EXTERIOR DECK ATTACHMENT

Fastener	Allowable Load (lbs)	
	1½" TimberStrand® LSL rim board	1½" TJ® Rim
½" lag bolt	610	480



- Corrosion-resistant fasteners required for wet-service applications

Nail Size	TJ101(12)		Rim Board		1 1/2" TimberStrand® LSL	1 1/2" TimberStrand® LSL or wider	Microlams LVL	Parallel PSL
	110, 210 and 230	360 and 560	1 1/2" Rim Board	1 1/2" TimberStrand® LSL				
8d (0.131" x 2 1/2"), 8d (0.131" x 2 1/2")	4"	3"	3"	6"	4"	4"	3"	3"
10d (0.148" x 3"), 12d (0.148" x 3 3/4")	4"	4"	4"	6"	4"	4"	4"	4"
16d (0.162" x 3 1/2")	4"	6"	6"	6"	6"	6"	6"	6"

(1) Stagger nails when using 4" on-center spacing and maintain 1 1/2" joint and panel edge distance. One row of fasteners is permitted (two at abutting end joints) for diaphragms. For TJ101 joints in diaphragm applications cannot be less than shown in table. When fastener spacing for blocking is less than spacing shown above, rectangular blocking must be used in line of TJ101 joints.

(2) For non-diaphragm applications, multiple rows of fasteners are permitted if the rows are offset at least 1 1/2" and staggered.

(3) With 16d (0.148" x 3 1/2") nails, spacing can be reduced to 3" on-center for light gauge steel studs.

(4) Can be reduced to 4" on-center if nail penetration into the narrow edge is no more than 1 1/2" (to avoid splitting).

(5) Can be reduced to 5" on-center if nail penetration into the narrow edge is no more than 1 1/2" (to avoid splitting).

■ Recommended nailing is 12" on-center in field and 6" on-center along panel edge. Fastening requirements on engineered drawings supersede recommendations listed above.

■ For recommended nailing and adhesives, see INSTALLATION RECOMMENDATIONS on page 2 of the *Weyerhaeuser Installation Guide for Floor and Roof Framing*, T4-9001.

■ Nailing rows must be offset at least 1/2" and staggered.

■ 14 ga. staples may be substituted for 8d (0.113" x 2 1/2") nails if minimum penetration of 1" into the TJ101 joint or rim board is achieved.

■ Maximum nail spacing for TJ101 joints is 18" on-center.

TJ# Joists	110	120	210	230 or 360	560
Depth	9 1/2" or 11 1/2"	14"	9 1/2" or 11 1/2"	14" or 16"	14" or 16" or 32"
Filler Block B ⁽¹⁾ (Detail H2)	2x6	2x6	2x6 + 3" sheathing	2x6 + 1/2" sheathing	2x12 + 3/4" sheathing
Cantilever (Detail E4)	2x6 6'0" long	2x10 6'0" long	2x6 + 3" sheathing 4'-0" long	2x6 + 1/2" sheathing 4'-0" long	2x12 + 3/4" sheathing 6'-0" long
Baker Block ⁽¹⁾ (Detail F1 or H2)	3/8" or 3/4"	3/4" or 5/8"	3/8" or 1" Net		

⁽¹⁾ If necessary, increase filler and baker block height for face mount hangers and maintain 5/8" gap at top of joist, see detail W. Filler and baker block dimensions should accommodate required nailing without splitting (1/2" minimum for blocks and 3/4" minimum for filler blocks).

(1) If necessary, increase filler and backer block height for face mount hangers and maintain $\frac{1}{8}$ " gap at top of joist; see detail W. Filler and backer block dimensions should accommodate required nailing without splitting (12" minimum for backer blocks and 24" minimum for filler blocks).

TJI® joist framing does not require bridging or mid-span blocking

DO NOT bevel cut joist beyond inside face of wall.

DO NOT overhang seat cuts on beams beyond the inside face of support member.

DO NOT use sawn lumber for rim board or blocking, as it may shrink after installation. Use only engineered lumber.

Safety bracing (1x4 minimum) at 8' on-center (6' on-center for TJI® 110 joists) and extended to a braced end wall. Fasten at each joist with two 8d (0.113" x 2½") nails minimum (see WARNING).

See ALLOWABLE HOLES

Bearing plate to be flush with inside face of wall or beam

Protect untreated wood from direct contact with concrete

1½" knockouts at approximately 12" on-center

End of joists at centerline of support

Pumbing Drop

Joist required if edge is unsupported and spanning is exceeded.

floor performance, but panels carry stacked (2). Packing onto the web (rs) is not a substitute panels.

load bearing parallel width of the wall for (see detail).

CS

E1

H2

A1

E2

A2

L6

P

B4

B3

B2

B1

L3

H1

L1

L4

H3

LA

Rim board joint between joists

TJI® rim joist

a rim board or rim joist.

Use B1 or B2 at intermediate bearings with load bearing or braced/shear wall from above

Structural sheathing

Exterior Deck Attachment

Trus Joist ENGINEERED WOOD PRODUCTS

Figure 2.2.2: End Support

Min. distance from Table A

Min. distance from Table B

1/2" hole may be cut anywhere in web outside of hatched zone

6"

6"

2 x D

Closely grouped round holes are permitted if the group perimeter meets requirements for round or square holes.

No field cut holes in hatched zones

Do not cut holes larger than 1/2" in cantilever

DO NOT cut or notch flange.

DO NOT cut holes in cantilever reinforcement.

MINIMUM DISTANCE FROM THE SURFACE TO THE ROUND HOLE SIZE													SQUARE OR RECTANGULAR HOLE SIZE												
J.H.P. JOINT DEPTH	2"	3"	4"	5"	6 1/2"	7"	8 1/2"	11"	13"	2"	3"	4"	5"	6 1/2"	7"	8 1/2"	11"	13"							
9 1/2"	110	1' 0"	1' 0"	1' 0"	2' 0"	3' 0"	5' 0"			1' 0"	1' 0"	2' 0"	3' 0"	4' 0"	4' 0"										
	210	1' 0"	1' 0"	1' 0"	2' 0"	3' 0"	5' 0"			1' 0"	2' 0"	2' 0"	4' 0"	5' 0"											
	230	1' 0"	1' 0"	2' 0"	2' 0"	3' 0"	5' 0"			1' 0"	2' 0"	3' 0"	4' 0"	5' 0"											
	350	1' 0"	1' 0"	2' 0"	3' 0"	4' 0"	6' 0"			1' 0"	2' 0"	3' 0"	5' 0"	5' 0"											
	560	1' 0"	2' 0"	3' 0"	5' 0"	7' 0"				2' 0"	3' 0"	4' 0"	5' 0"	6' 0"											
11 1/2"	110	1' 0"	1' 0"	1' 0"	2' 0"	2' 0"	3' 0"	5' 0"		1' 0"	1' 0"	2' 0"	2' 0"	4' 0"	5' 0"	6' 0"									
	210	1' 0"	1' 0"	2' 0"	2' 0"	3' 0"	3' 0"	5' 0"		1' 0"	1' 0"	2' 0"	3' 0"	5' 0"	5' 0"	6' 0"									
	230	1' 0"	1' 0"	2' 0"	3' 0"	3' 0"	3' 0"	5' 0"		1' 0"	2' 0"	2' 0"	3' 0"	5' 0"	5' 0"	6' 0"									
	350	1' 0"	1' 0"	2' 0"	3' 0"	3' 0"	4' 0"	7' 0"		1' 0"	2' 0"	3' 0"	4' 0"	6' 0"	6' 0"	7' 0"									
	560	1' 0"	2' 0"	3' 0"	4' 0"	5' 0"	6' 0"	8' 0"		2' 0"	3' 0"	4' 0"	5' 0"	7' 0"	7' 0"	8' 0"									
14"	110	1' 0"	1' 0"	1' 0"	1' 0"	1' 0"	2' 0"	3' 0"	5' 0"	1' 0"	1' 0"	1' 0"	2' 0"	2' 0"	3' 0"	4' 0"	6' 0"	8' 0"							
	210	1' 0"	1' 0"	1' 0"	1' 0"	1' 0"	2' 0"	2' 0"	3' 0"	1' 0"	1' 0"	2' 0"	2' 0"	4' 0"	4' 0"	6' 0"	8' 0"								
	230	1' 0"	1' 0"	1' 0"	1' 0"	1' 0"	2' 0"	2' 0"	4' 0"	1' 0"	1' 0"	2' 0"	3' 0"	4' 0"	5' 0"	7' 0"	9' 0"								
	350	1' 0"	1' 0"	1' 0"	1' 0"	1' 0"	2' 0"	4' 0"	5' 0"	1' 0"	1' 0"	2' 0"	3' 0"	4' 0"	6' 0"	8' 0"	9' 0"								
	560	1' 0"	1' 0"	2' 0"	3' 0"	4' 0"	5' 0"	6' 0"	8' 0"	1' 0"	1' 0"	2' 0"	3' 0"	4' 0"	7' 0"	9' 0"	10' 0"								
16"	210	1' 0"	1' 0"	1' 0"	1' 0"	1' 0"	2' 0"	2' 0"	3' 0"	1' 0"	1' 0"	1' 0"	2' 0"	3' 0"	3' 0"	6' 0"	8' 0"	11' 0"							
	230	1' 0"	1' 0"	1' 0"	1' 0"	1' 0"	2' 0"	4' 0"	7' 0"	1' 0"	1' 0"	1' 0"	2' 0"	3' 0"	4' 0"	6' 0"	8' 0"								
	350	1' 0"	1' 0"	1' 0"	1' 0"	1' 0"	2' 0"	2' 0"	4' 0"	1' 0"	1' 0"	1' 0"	2' 0"	3' 0"	5' 0"	5' 0"	9' 0"								
	560	1' 0"	1' 0"	1' 0"	1' 0"	1' 0"	2' 0"	3' 0"	5' 0"	1' 0"	2' 0"	3' 0"	4' 0"	6' 0"	7' 0"	10' 0"	11' 0"								
18"	350	1' 0"	1' 0"	1' 0"	1' 0"	1' 0"	2' 0"	4' 0"	5' 0"	1' 0"	1' 0"	1' 0"	2' 0"	3' 0"	4' 0"	6' 0"	8' 0"	11' 0"							
	560	1' 0"	1' 0"	1' 0"	1' 0"	1' 0"	2' 0"	4' 0"	7' 0"	1' 0"	1' 0"	1' 0"	2' 0"	3' 0"	4' 0"	6' 0"	8' 0"								
20"	350	1' 0"	1' 0"	1' 0"	1' 0"	1' 0"	2' 0"	4' 0"	7' 0"</																

Minimum distance from edge of hole to inside face of nearest intermediate or cantilever support																		
JOIST DEPTH	T _{AD}	ROUND HOLE SIZE										SQUARE OR RECTANGULAR HOLE SIZE						
		2"	3"	4"	5"	6½"	7"	8½"	11"	13"	2"	3"	4"	5"	6"	8"	11"	13"
9½"	110	2:0"	2:6"	3:6"	4:6"	7:6"					1:4"	2:6"	3:6"	5:6"	6:6"			
	210	2:0"	2:6"	3:6"	5:0"	8:0"				2:0"	3:0"	4:0"	6:6"	7:6"				
	230	2:0"	2:6"	4:0"	5:0"	8:0"				2:0"	3:0"	4:0"	6:6"	8:0"				
	360	3:0"	4:0"	5:6"	6:6"	9:0"				3:0"	4:0"	5:6"	7:6"	8:0"				
	460	3:6"	5:0"	6:0"	7:6"	10:0"				4:0"	5:0"	6:0"	8:0"	9:0"				
11½"	110	1:0"	1:6"	2:6"	4:6"	4:6"	8:6"			1:0"	1:6"	2:6"	4:0"	7:0"	7:0"	9:0"		
	210	1:0"	1:0"	2:0"	3:0"	4:6"	8:0"	9:0"		1:0"	2:0"	3:0"	4:6"	8:0"	8:0"	10:0"		
	230	1:0"	1:0"	2:0"	3:6"	5:0"	9:6"	10:0"		1:0"	2:6"	3:6"	5:0"	8:6"	9:0"	10:0"		
	360	1:6"	2:0"	4:0"	5:0"	7:6"	11:0"			1:0"	2:6"	3:0"	5:0"	8:6"	11:0"	11:0"		
	560	1:6"	3:0"	4:6"	6:0"	8:6"	12:0"			1:0"	3:6"	4:6"	6:0"	10:0"	11:0"	12:0"		
14"	110	1:0"	1:0"	1:0"	1:0"	2:6"	4:6"	8:6"		1:0"	1:0"	1:0"	2:6"	5:0"	8:0"	12:0"		
	210	1:0"	1:0"	1:0"	1:0"	3:0"	5:6"	9:6"		1:0"	1:0"	1:0"	2:6"	6:0"	7:0"	10:0"		
	230	1:0"	1:0"	1:0"	1:0"	3:6"	4:6"	10:0"	10:6"	1:0"	1:0"	2:6"	4:6"	7:6"	11:0"	13:6"		
	360	1:0"	1:0"	2:0"	3:6"	5:6"	6:6"	12:6"		1:0"	2:0"	4:0"	5:6"	10:0"	12:0"			
	560	1:0"	1:0"	1:0"	2:6"	6:6"	9:6"	13:6"		1:0"	1:0"	2:0"	5:0"	10:0"	11:6"	15:0"		
16"	210	1:0"	1:0"	1:0"	1:0"	1:0"	3:6"	6:0"	10:0"	1:0"	1:0"	1:0"	1:6"	4:6"	5:6"	10:0"	12:6"	
	230	1:0"	1:0"	1:0"	1:0"	1:6"	2:0"	4:6"	6:6"	11:0"	1:0"	1:0"	2:6"	5:0"	6:0"	10:0"	13:6"	
	360	1:0"	1:0"	1:0"	1:0"	3:0"	4:6"	6:6"	10:0"	13:6"	1:0"	1:0"	2:6"	5:6"	8:6"	14:0"	16:0"	
	460	1:0"	1:0"	1:0"	1:0"	3:6"	5:6"	7:6"	11:0"	15:0"	1:0"	1:0"	3:6"	5:6"	8:6"	14:0"	16:0"	
	560	1:0"	1:0"	1:0"	1:0"	2:6"	3:6"	7:0"	11:0"	15:0"	1:0"	1:0"	3:6"	5:6"	10:0"	14:0"	16:0"	
18"	360	1:0"	1:0"	1:0"	1:0"	1:0"	6:0"	9:0"	15:0"	1:0"	1:0"	4:0"	6:6"	9:0"	14:6"	16:6"	19:6"	
	460	1:0"	1:0"	1:0"	1:0"	2:0"	4:6"	6:0"	10:0"	16:6"	1:0"	1:0"	3:6"	6:0"	8:6"	11:6"	16:6"	
	230	1:0"	1:0"	1:0"	1:0"	1:0"	3:0"	6:0"	11:0"	15:6"	1:0"	1:0"	1:6"	4:0"	7:0"	12:6"	16:6"	
	560	1:0"	1:0"	1:0"	1:0"	1:0"	1:6"	5:6"	12:0"	16:0"	1:0"	1:0"	3:0"	6:0"	8:6"	14:0"	20:6"	

Regular holes based on measurement of longest side.

- Leave $\frac{1}{8}$ " of web (minimum) at top and bottom of hole. **DO NOT cut joist flanges.**
- Tables are based on uniform load tables in current design literature.
- For simple span (5' minimum), uniformly loaded joists used in residential applications, one maximum size round hole may be located

The diagram illustrates the relationship between header/beam depth, hole size, and hole spacing. It shows a cross-section of a beam with a hole. The hole size is defined as 2 times the diameter of the largest hole (minimum). The hole depth is indicated as 1/2 the depth. The hole is positioned such that the remaining material on either side is at least 8 inches. The allowed hole zone is shown as a dashed line.

Header or Beam Depth	Maximum Round Hole Size
9 1/2" - 9 1/2"	3"
11 1/2" - 11 1/2"	3 3/4"
14" - 16"	4 1/2"

See illustration for allowed hole zone

General Notes

- Allowed hole zone suitable for headers and beams with uniform and/or concentrated loads anywhere along the member.
- Round holes only
- No holes in headers or beams in plank orientation.

1.3E TimberStrand® LSL hole zone

Microlam® LVL and Parallam® LVL the hole zone

2 x diameter of the largest hole (minimum)

$\frac{1}{2}$ depth

d

Microlam® LVL and Parallam® PSL allowed hole zone

middle $\frac{1}{2}$ span

d


1.3E TimberStrand® LSL allowed hole zone

d

DATE	STATUS
PROJECT	
SECOND STORY ADDITION	

General Notes

- Allowed hole zone suitable for headers and beams with **uniform load**
- Round holes only
- No holes in cantilevers.
- No holes in headers or beams in plank orientation.



DO NOT cut, notch or drill holes in headers or beams except as indicated in illustrations and tables.

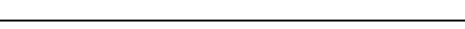
CONTACT: GARY & ROBIN ABRAHAMSEN
PHONE: 516-319-2538

Other True Joist® Beams

Header or Beam Depth	Maximum Round Hole Size
4 1/2"	1"
6 1/2"	1 1/2"
7 1/4", 20"	2"

See illustration for Allowed Hole Zone

FIRM



ARCHITECTS >> ENGINEERS

107 OCEANSIDE STREET, ISLIP TERRACE, NY 11752
PHONE: 631-708-4380
EMAIL: ROBERT.HEIN.RA@GMAIL.COM

ALL DRAWINGS AND WRITTEN MATERIAL HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE LICENSED PROFESSIONAL, AND THE SAME MAY NOT BE REPRODUCED, COPIED, OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE LICENSED PROFESSIONAL.		
SIGN & SEAL	BUILDING PERMIT / APPLICATION # 23-7888	
	DATE 12/30/2024	PROJECT #
	DRAWN BY REH	CHECKED BY
	DRAWING TITLE TJI FRAMING DETAILS	
	DRAWING # A 503	
SHEET # 9 OF 9		