

GENERAL NOTES

GENERAL:

1. NO WORK IS TO START UNTIL A PERMIT IS OBTAINED FROM THE BUILDING DEPARTMENT.
2. ALL WORK SHALL CONFORM WITH THE 2020 RESIDENTIAL CODE OF NEW YORK STATE AS WELL AS ALL CURRENT NEW YORK STATE CODES
3. ALL UNNOTED OR NONVISIBLE EASEMENTS OR CONDITIONS WHICH SHALL ARISE DURING THE COURSE OF CONSTRUCTION THAT DISAGREES WITH THAT INDICATED ON THESE PLANS SHALL CAUSE THE CONTRACTOR TO STOP WORK AND NOTIFY THE ARCHITECT OR ENGINEER. SHOULD HE FAIL TO FOLLOW THIS PROCEDURE AND CONTINUE TO WORK HE WILL THEN ASSUME ALL RESPONSIBILITY AND LIABILITY ARISING THEREFROM.
4. NO DEVIATIONS OR CHANGES TO ANY PART OF THESE PLANS SHALL BE MADE UNLESS FIRST APPROVED BY THE ARCHITECT, ENGINEER AND BUILDING DEPARTMENT.
5. DRY WELLS AS REQUIRED BY STATE AND LOCAL CODES.
6. ALL DIMENSIONS HEREIN ARE APPROXIMATE. NOT TO BE SCALED AND ARE SUBJECT TO REVISION AS PER ACTUAL FIELD CONDITIONS. THE DISCRETION OF THE OWNER, AND AS DIRECTED AND/OR APPROVED BY THE ARCHITECT OR ENGINEER.
7. OWNER/ CONTRACTOR ARE RESPONSIBLE TO OBTAIN INSPECTIONS, APPROVALS, CERTIFICATES, CERTIFICATE OF OCCUPANCY/ COMPLETION AND U.L. APPROVAL.
8. THIS SET OF PLANS IS THE PROPERTY OF TEHN DESIGN GROUP LLC. AND IS FOR THE ONE PROJECT NOTED HEREIN ONLY (EVEN IF THIS PROJECT IS NOT CONSTRUCTED). THE PLANS SHALL NOT BE ALTERED, REPRODUCED OR USED IN ANY WAY WITHOUT WRITTEN PERMISSION OR COMPENSATION OF TEHN DESIGN GROUP LLC.
9. THE ARCHITECT OR ENGINEER IS NOT RETAINED FOR SUPERVISION OF WORK AND IS RESPONSIBLE FOR DESIGN INTENT ONLY.
10. ANY MATERIALS OR WORKMANSHIP FOUND AT ANY TO BE DEFECTIVE SHALL BE BE REMEDIED AT ONCE REGARDLESS OF ANY PREVIOUS INSPECTIONS.
11. CONTRACTOR SHALL BE FAMILIAR WITH THE CURRENT GENERAL REQUIREMENTS OF ALL STANDARD AND SPECIALTY SYSTEMS / MATERIALS USED WITHIN THIS PROJECT WITH THE MOST STRINGENT RECOMMENDATIONS / REQUIREMENTS TO BE FOLLOWED.
12. IT IS THE INTENT OF THESE PLANS TO EXPLAIN THE REQUIREMENTS OF THE PROPOSED CONSTRUCTION. HOWEVER FIELD CONDITIONS MAY ARISE DURING CONSTRUCTION THAT MAY NOT HAVE BEEN EXHAUSTIVELY DETAILED.
13. ANY AND ALL DISCREPANCIES TO BE REPORTED TO ENGINEER.
14. WALL AND CEILING FINISHES SHALL BE IN ACCORDANCE WITH SECTION R701 AND INSULATION SHALL BE IN ACCORDANCE WITH SECTION R516.
15. INTERIOR WALL COVERING SHALL BE IN ACCORDANCE WITH SECTION R702 AND EXTERIOR WALL COVERING SHALL BE IN ACCORDANCE WITH SECTION R703
16. THIS PROJECT COMPLIES W/ THE NEW YORK STATE 2020 UNIFORM CODE

MECHANICAL SYSTEM COMPLIES CHAPTER 12 THROUGH 23
PLUMBING SYSTEM COMPLIES CHAPTER 24 THROUGH CHAPTER 33
ELECTRICAL SYSTEM COMPLIES CHAPTER 34 THROUGH CHAPTER 43

CARPENTRY:

1. ALL LUMBER SHALL BE D.F. #2 OR BETTER UNLESS OTHERWISE NOTED (U.O.N.)
2. ALL LUMBER TO BE A MINIMUM OF 8" ABOVE FINISHED GRADE. (U.O.N.)
3. SILLS TO BE FLASHED (TERMITE SHIELD) W/ SILL SEAL. SILL TO BE A.C.Q. WOOD 2'-2" x 6" U.O.N.
4. ALL JOISTS HANGERS TO BE "TECO" OR EQUAL, FULL SIZE.
5. DOUBLE HEADERS AND TRIMMERS ABOUT ALL OPENINGS. (U.O.N.)
6. DOUBLE JOISTS UNDER PARALLEL PARTITIONS, POSTS, AND BATH TUBS. (U.O.N.)
7. ALL BEAMS, GIRDERS, HEADERS, ETC. TO HAVE A MINIMUM OF 4" BEARING.
8. ALL WINDOWS TO BE IN CONFORMANCE W/ ATTACHED ENERGY STATEMENT W/ MODEL S NUMBERS ON PLANS.
9. PROVIDE ATLEAST (1) WINDOW (OR DOOR) IN EACH HABITABLE SPACE FOR EMERGENCY ESCAPE. IN CONFORMANCE WITH 2020 NEW YORK STATE BUILDING CODE SEC. R310 MIN OPENING OF 5.7 SQ. FEET (5.0 SQ. FEET @ GRADE LEVEL WHEN GRADE TO SILL IS LESS THAN 44" OR LESS) W/ MINIMUM NET HEIGHT 24" AND MINIMUM NET WIDTH OF 20" (OPERATION W/O NEED FOR TOOLS) BOTTOM OF OPENING @ 44" MAXIMUM A.F.F.
10. EXTERIOR WINDOWS ARE TO BE DESIGNED IN ACCORDANCE WITH SECTION R609. ALL GLAZING SHALL COMPLY WITH SECTION R306.
11. STAIRWAYS SHALL BE DESIGNED IN ACCORDANCE WITH SECTIONS R311.5 TO R311.5.7
12. MOISTURE VAPOR BARRIER IS TO BE INSTALLED ON THE WARM-IN-WINTER SIDE OF THE INSULATION IN ALL FRAMED WALLS, FLOORS, ROOF AND CEILINGS COMPRISING ELEMENTS OF THE BUILDING THERMAL ENVELOPE. IN ACCORDANCE WITH SECTION N102.
13. ASPHALT SHINGLES ARE TO BE INSTALLED IN ACCORDANCE WITH SECTION R905.2.

ELECTRICAL:

1. ALL NEWLY INSTALLED ELECTRICAL WORK OR APPLIANCES SHALL CONFORM TO THE 2020 RESIDENTIAL CODE OF NEW YORK STATE
2. CONTRACTOR WILL FURNISH A FIRE UNDERWRITERS CERTIFICATE UPON COMPLETION OF WORK.
3. ELECTRICAL WIRING AND EQUIPMENT TO COMPLY W/ CHAPTERS 34-43 AND LOCAL BUILDING DEPARTMENT.
4. SMOKE DETECTION AS PER N.Y.S. CODE SECTION R314.
- ALL SMOKE DETECTORS SHALL BE INTERCONNECTED AND HARD WIRED.
5. EXHAUST FOR THE CLOTHES DRYER SHALL BE IN ACCORDANCE WITH SECTION M1502.
6. THE EXISTING ELECTRICAL SYSTEM SHALL BE CAPABLE OF HANDLING THE IMPOSED LOADS OF PROPOSED ADDITION. IF NOT, SYSTEM SHALL BE UPGRADED TO MEET CODE COMPLIANCE.

FOUNDATIONS, CONCRETE AND MASONRY:

1. ALL FOOTINGS TO BEAR UPON FIRM, VIRGIN, UNDISTURBED SOIL.
2. SOIL ASSUMED TO HAVE A MINIMUM BEARING CAPACITY OF (1)TON / SQ. FOOT.
3. FOOTINGS TO REST A MIN 3'-0" BELOW GRADE. U.O.N. STEP FOOTINGS @ 1:2 RATIO (1" RISE MAX)
4. WALLS TO BE POURED CONCRETE OF SIZE AND REINFORCEMENT SHOWN ON PLANS. (U.O.N.)
5. NO BACK FILL SHALL BE PLACED AGAINST FOUNDATION WALLS UNTIL FIRST TIER OF FRAMING OR PROPER BRACING IS IN PLACE.
6. FOOTINGS TO BE OF POURED CONCRETE OF SIZE SHOWN ON PLANS.
7. ALL OPENINGS FOR GS FLUES, UTILITIES, ETC. TO BE FILLED SOLID WITH CONCRETE. ALL GIRDERS WITH BEAM POCKETS ARE TO BE STEEL SHIMMED W/ 1/2" SPACE @ SIDES AND ENDS. U.O.N.
8. ALL CONCRETE TO HAVE AN ULTIMATE COMPRESSIVE STRENGTH @ 28 DAYS OF 3,000 P.S.I. ALL EXTERIOR MATERIALS TO BE AIR-ENTRAINED.
- 3,500 P.S.I. GARAGE SLAB / EXPOSED SLAB ON GRADE / POURED STEPS.
9. CONCRETE SLABS TO REST UPON MINIMUM 6" OF FINE GRAVEL OR SAND WITH MINIMUM 6MIL. POLY. V.B. (@ OCCUPIED SPACE) AND WITH REQUIRED INSULATION.
10. ALL SLABS ABUTTING FRAMING FLASHED AS DETAILED IN PLANS.
11. BRICK VENEER TO BE ANCHORED W/ (1) WALL TIE EVERY 32" O.C. VERTICALLY AND EVERY 18" O.C. HORIZONTALLY W/ FLASHED JOINT @ BRICK LEDGE OR RELIEVING ANGLE W/ WEEP HOLES @ 4'-0" O.C. MAX TO DIRECT ANY CONDENSATION TO THE EXTERIOR.
12. APPLY (1) COAT OF ASPHALTIC BASED DAMPROOFING TO EXTERIOR OF FOUNDATION FROM FOOTING TO 2" ABOVE FINISHED GRADE, UNLESS WET SITE CONDITIONS EXCEED CODE LIMITS.
13. THE MASONARY CHIMNEY SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R1001.

PLUMBING, MECHANICAL, FUEL GAS, A/C:

1. PLUMBING TO COMPLY WITH THE 2020 RESIDENTIAL CODE OF NEW YORK STATE 2020 I.M.C AND 2020 I.F.G.C. ALONG WITH THE LOCAL BUILDING DEPARTMENT.
2. SITE SANITARY SYSTEMS ARE TO COMPLY WITH S.C.D.H.S. REQUIREMENTS.
3. PLUMBING, MECHANICAL, FUEL GAS SYSTEMS SHALL COMPLY WITH THE RESIDENTIAL SECTIONS FOR PLUMBING CODE (CHAPTER 25-33), MECHANICAL CODE (CHAPTER 12-23), AND FUEL GAS CODE (CHAPTER 24) OF THE 2020 RESIDENTIAL CODE OF NEW YORK STATE
4. ALL WASTE AND VENTS ABOVE FLOOR SHALL BE SCHEDULE 40 THICKNESS
5/8" CAST IRON BELL (HUB) AND SPIGOT BELOW AND THROUGH CONCRETE.
5. THE EX. HEATING/ A.C. SYSTEM SHALL BE CAPABLE OF HANDLING THE IMPOSED LOADS OF PROPOSED ADDITION. IF NOT, SYSTEM SHALL BE UPGRADED TO MEET CODE COMPLIANCE.

BUILDING CODE NOTE:

THE PROPOSED DWELLING HAS BEEN DESIGNED TO BE IN CONFORMANCE WITH THE 2020 RESIDENTIAL CODE OF NEW YORK STATE

MECHANICAL CODE NOTE:

THIS PROJECT SHALL COMPLY WITH THE MECHANICAL CODE OF NY. STATE, CHAPTERS 12 THROUGH 24.

PLUMBING CODE NOTE:

THE PROPOSED DWELLING HAS BEEN DESIGNED TO BE IN CONFORMANCE WITH THE 2020 RESIDENTIAL CODE OF NEW YORK STATE CHAPTER 25 THROUGH 33

ELECTRICAL CODE NOTE:

THE PROPOSED DWELLING HAS BEEN DESIGNED TO BE IN CONFORMANCE WITH THE 2020 RESIDENTIAL CODE OF NEW YORK STATE CHAPTER 34 THROUGH 43

ENERGY CODE NOTE:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND / OR SPECIFICATIONS ARE IN COMPLIANCE WITH:

2020 RESIDENTIAL CODE OF NEW YORK STATE

NOTE

1. ALL PLUMBING WORK TO BE DONE AS PER CODE.
2. FIXTURES TO HAVE INDIVIDUAL SHUT OFF VALVE.
3. FIXTURES TO BE PROPERLY VENTED.

NOTE:

1. ALL DIMENSIONS AND WORK QUANTITIES SHALL BE VARIFIED IN THE FIELD BY THE CONTRACTOR, AND RECEIVED DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT.
2. MINOR DETAILS NOT SHOWN OR SPECIFIED BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THIS WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED ON PLANS.
3. NO WORK SHALL COMMENCE UNTIL PLANS ARE APPROVED AND PERMIT SECURED FROM THE LOCAL DEPARTMENT OF BUILDINGS.

PROPOSED NEW DWELLING AT:

MIDWAY ST. RESIDENCE

24 MIDWAY STREET

BABYLON, NEW YORK

- 1 TITLE SHEET , PLOT PLAN
- 2 PILE PLAN
- 3 FOUNDATION PLAN, WALL SECTION
- 4 FIRST FLOOR PLAN, RISER DIAGRAM
- 5 SECOND FLOOR PLAN, ROOF PLAN
- 6 ELEVATIONS
- 7 SECTIONS
- 8 NOTES & DETAILS
- 9 ENERGY SEALING DETAILS
- 10 BRACING PLAN AND DETAILS
- 11 BRACING PLAN AND DETAILS
- 12 NOTES & DETAILS
- 13 NOTES & DETAILS
- 14 NOTES & DETAILS
- 15 TJI NOTES & DETAILS

GEOGRAPHIC TABLE DESIGN REQUIRMENTS

2020 NYS UNIFORM CODE
THIS PROJECT IS WITHIN A HURRICANE PRONE REGION , CLIMATE ZONE 4A

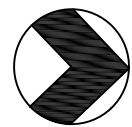
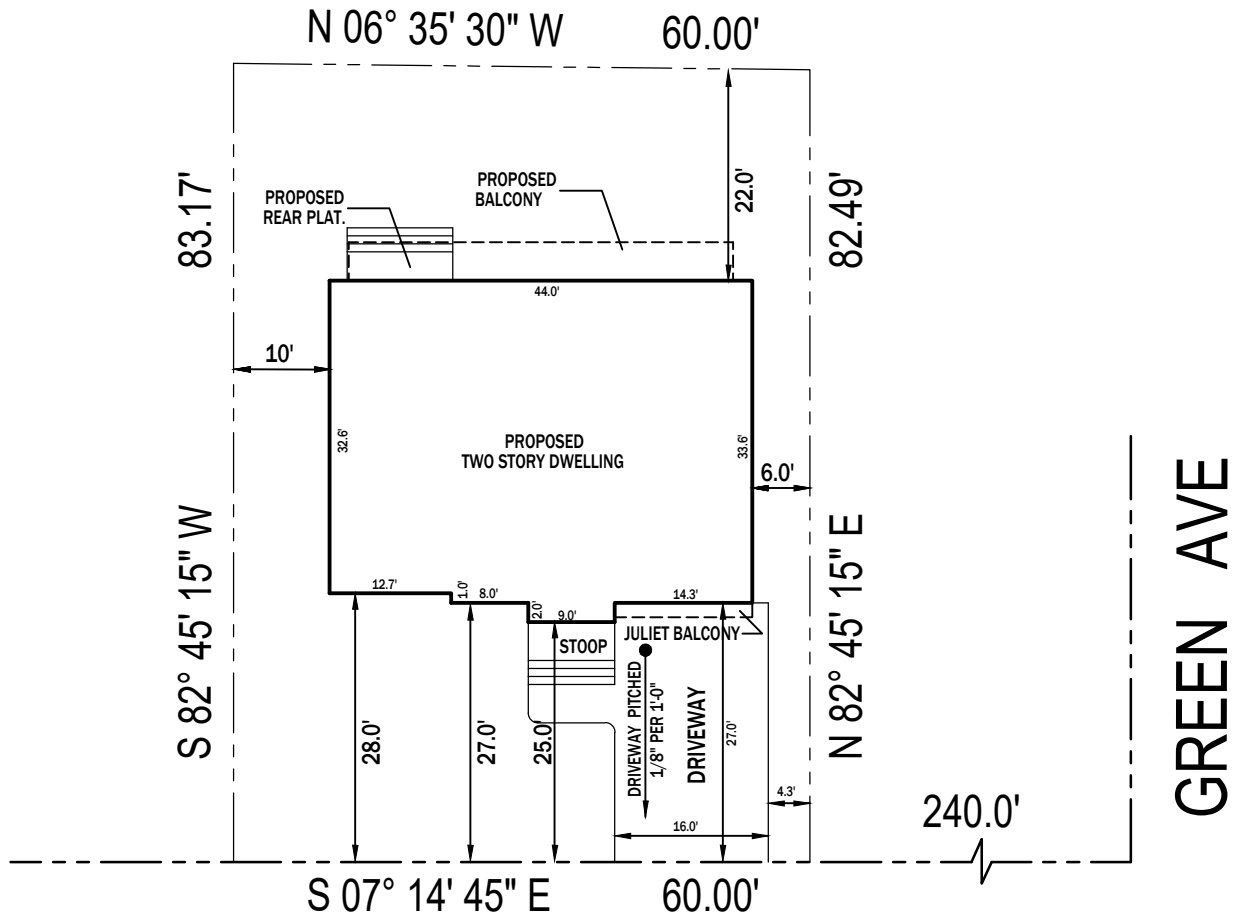
TABLE R301.2(1) CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA													
GROUND SNOW LOAD	WINDDESIGN				SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP	ICE SHIELD UNDERLAYMENT REQUIRED	FLOOD HAZARD	AIR FREEZING INDEX	MEAN ANNUAL TEMP
	SPEED ^a (MPH)	TOPOGRAPHIC EFFECTS ^k	SPECIAL REGION	BORNE - BORNE DEBRIS		*WEATHERING _s	FROST LINE DEPTH	TERMITE					
20 PSF	130vult	NO	NO	1 MILE FROM THE COAST & FISH ISLAND	B	SEVERE	3 FEET BOF	MODERATE TO HEAVY	15°	YES	NO	599	51°

MANUAL J CRITERIA REQUIRED IN SUBMITTED CALCULATIONS							
ELEVATION	LAT	WINTER HEATING	SUMMER COOLING	ALTITUDE CORRECTION FACTOR	INDOOR DESIGN TEMP	DESIGN TEMPERATURE COOLING	HEATING TEMPERATURE DIFFERENCE
108 FT	41° N	15° F	86° F	1.00	70° F	75° F	55° F
COOLING TEMPERATURE DIFFERENCE	WIND VELOCITY HEATING		WIND VELOCITY COOLING	COINCIDENT WET BULB	DAILY RANGE	WINTER HUMIDITY	SUMMER HUMIDITY
11° F	15 MPH		7.5 MPH	72° F	MEDIUM (M)	40 %	32 GR @ 50% RH

IBC CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA													
GROUND SNOW LOAD	WINDDESIGN				SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP	ICE SHIELD UNDERLAYMENT REQUIRED	FLOOD HAZARD	AIR FREEZING INDEX	MEAN ANNUAL TEMP
	SPEED ^a (MPH)	TOPOGRAPHIC EFFECTS ^k	SPECIAL REGION	BORNE - BORNE DEBRIS		*WEATHERING _s	FROST LINE DEPTH	TERMITE					
20 PSF	130vult	NO	NO	1 MILE FROM THE COAST & FIRE ISLAND	B	SEVERE	3 FEET BOF	MODERATE TO HEAVY	SEE BELOW	YES	NO	599	51°

WINTER DESIGN TEMP:

- INTERIOR SPACES INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH AN INDOOR TEMPERATURE OF NOT LESS THAN 68° F AT A POINT 3 FEET ABOVE THE FLOOR ON THE DESIGN HEATING DAY
- SYSTEM DESIGN SHALL BE BASED ON MAX 72° F HEATING, MINIMUM 75° F COOLING
- DEGREE DAYS (NY LA GUARDIA) 4811. WINTER DESIGN TEMP 15° F. DRY BULB 89° F. WET BULB 75° (2020 IPC APPENDIX D)
- AS PER NYSDC 2020 CHAPTER 16 SECTION 1609 AND ASCE 7 2016, WIND EXPOSURE CATEGORY AND SURFACE ROUGHNESS B
- USE C FOR BOTH SOUTH SHORE AND FIRE ISLAND



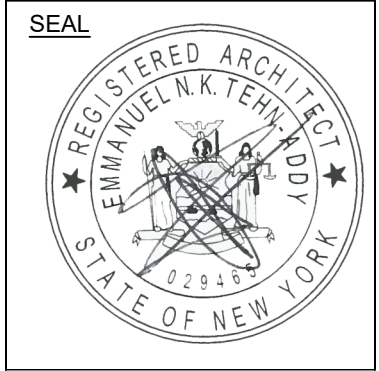
PLOT PLAN

1" = 20'-0"

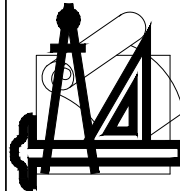
LOT AREA = 4'969.8 S.F.

FIRST FLOOR = 1,482 S.F.
SECOND FLOOR = 1,482 S.F.
PORTICO = 36.0 S.F.
REAR PLAT = 33.0 S.F.
2ND STORY BALCONY = 160.0 S.F.
JULIET BALCONY = 21.5 S.F.

REVISIONS	6-2-25: ISSUED TO BUILDING DEPARTMENT		



PROJECT	PROPOSED NEW DWELLING	CLIENT	24 MIDWAY STREET BABYLON, NEW YORK	ARCHITECT	MIDWAY STREET RESIDENCE	DATE	4-24-25	JOB NO.	24139	SCALE	1/4"=1'-0"	DWG NO	15



HELICAL SCREW ANCHORS (HSA)

- ALL HELICAL PILES SHALL BE MANUFACTURED BY MAGNUM PIERING, INC.
- THE CONTRACTOR SHALL PROVIDE ALL REQUIRED SUPERVISION, LABOR, MATERIALS, AND EQUIPMENT FOR THE INSTALLATION OF HELICAL PIERS AS INDICATED ON THE DRAWINGS. RELATED WORK INCLUDES EXCAVATION, BACKFILL, TEMPORARY PROTECTION, AND SHORING. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND STACKING PILES.
- HELICAL PILES SHALL BE A MINIMUM DIAMETER SPECIFIED ON DRAWING SHEET # 3
- PILES SHALL BE HIGH STRENGTH STRUCTURAL STEEL TUBE MEETING THE REQUIREMENTS OF ASTM A450, GRADE 65.
- ALL PILES SHALL HAVE A MINIMUM TOTAL INSTALLATION DEPTH SPECIFIED ON DRAWING SHEET # 3
- INSTALLATION UNITS SHALL CONSIST OF A ROTARY TYPE TORQUE MOTOR WITH FORWARD AND REVERSE CAPABILITIES. INSTALLATION UNITS SHALL BE CAPABLE OF DEVELOPING THE MINIMUM TORQUE AS REQUIRED.
- EACH HSA SHALL BE DESIGNED TO MEET THE SPECIFIED LOADS AND ACCEPTANCE CRITERIA AS SHOWN ON THE DRAWINGS.
- EACH HSA SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER EMPLOYED BY THE HELICAL SCREW MANUFACTURER.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING PILES, PILE CAPS, AND/ OR GRADE BEAMS AT OR ADJACENT TO NEW CONSTRUCTION.
- THE HELICAL LEAD SECTIONS AND EXTENSION SECTIONS SHALL BE ROUND STEEL PIPE SHAFT, OR COMPOSITE STEEL AND GROUT SHAFT CONFIGURED WITH ONE OR MORE HELICAL BEARING PLATES WELDED TO THE SHAFT.
- ALL PIERS MUST BE CORROSION PROTECTED BY HOT DIP GALVANIZATION.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR REVIEW AND APPROVAL SHOP DRAWINGS AND SPECIFICATIONS FOR THE HELICAL PILES AT LEAST 14 DAYS PRIOR TO THE START OF WORK. THE SHOP DRAWING SHALL INCLUDE THE FOLLOWING:
 - MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS.
 - HELICAL PILE IDENTIFICATION NUMBER & DESIGNATION.
 - MAXIMUM ALLOWABLE MECHANICAL COMPRESSION, TENSILE AND BENDING STRENGTH OF THE HELICAL PILES.
 - NUMBER OF PILES.
 - PLANNED INSTALLATION DEPTH AND NUMBER OF LEAD AND EXTENSION SECTIONS.
 - PRELIMINARY HELICAL CONFIGURATION (NUMBER AND DIAMETER OF HELICAL BEARING PLATES).
 - THE MANUFACTURERS RECOMMENDED CAPACITY TO INSTALLATION TORQUE RATIO.
 - MINIMUM FINAL INSTALLATION TORQUE.
 - CORROSION PROTECTION COATING ON HELICAL PILES AND BRACKET ASSEMBLIES.
- THE CONTRACTORS PILE DESIGN PROFESSIONAL SHALL SHALL SUBMIT TO THE ENGINEER DESIGN CALCULATIONS FOR THE HELICAL PILES AND BRACKETS INTENDED FOR USE ON THE PROJECT AT LEAST 14 DAYS PRIOR TO THE START OF WORK. ALL CALCULATIONS SHALL BE SIGNED AND SEALED BY A NYS PROFESSIONAL ENGINEER. THE SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING:
 - CONSIDERATIONS FOR BUCKLING AND EXPANSIVE SOILS.
 - MINIMUM INSTALLATION DEPTH TO REACH BEARING STRATUM.
 - SOIL BEARING AND PULLOUT CAPACITY.
 - LATERAL RESISTANCE OF THE SHAFT.
 - ESTIMATED PILE HEAD MOVEMENT AT DESIGN LOADS.
- UPON COMPLETION OF THE HELICAL PILE INSTALLATION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE FOLLOWING CLOSE OUT ITEMS.
 - CERTIFIED TEST REPORTS, INCLUDING RESULTS OF PILE LOAD TEST (WHERE REQUIRED).
 - MANUFACTURER'S CERTIFICATION THAT PRODUCTS MEET OR EXCEED REQUIREMENTS.
 - INSTALLER'S FIELD REPORTS RECORDING THE FOLLOWING:
 - TYPE, SIZE AND ACTUAL LOCATIONS OF HSA
 - FINAL INSTALLED DEPTH OF HSA
 - TORQUE INSTALLATION RECORDS ON ALL HSA
 - TORQUE MONITORING CALIBRATION DATA.
- PILES SHALL BE DESIGNED AS COLUMNS WITH A DEPTH OF FIXITY (LATERAL SUPPORT) OF 9'-0" IN FIRM SOIL OR 10'-0" IN SOFT SOIL.

NOTES:

- EXCAVATE FOR ALL FOOTINGS, FOUNDATION WALLS, AND SUCH OTHER WORK AS MAY BE NECESSARY TO THE DEPTHS AS SHOWN ON THE DRAWINGS. ALL TRENCHES FOR FOOTINGS, FOUNDATIONS, ETC. SHALL HAVE LEVEL, SOLID AND UNDISTURBED BOTTOMS.
- FOUNDATIONS AND FOOTINGS SIZED FOR BEARING ON VIRGIN SOIL AT MINIMUM BEARING BEARING SOIL CAPACITY OF (1) ONE TON PER SQUARE FOOT WITH A MINIMUM OF 3'-0" COVER.
- ALL CONCRETE SHALL BE 3,500 P.S.I.
- WHERE THE WALLS ARE POURED TO GRADE, AND DAMPROOFED, THE CONTRACTOR SHALL BACKFILL AGAINST WITH CLEAN EARTH. CARE SHALL BE TAKEN TO BRACE AS REQUIRED TO PREVENT CAVE-INS. BACKFILL TO BE FREE OF WOOD, TRASH, ETC.
- ALL CONCRETE SHALL BE AIR ENTRAINED. TOTAL AIR CONTENT (PERCENT BY VOLUME) SHALL NOT BE LESS THAN 5 PERCENT OR MORE THAN 7 PERCENT.
- ALL LUMBER THAT COMES IN CONTACT WITH CONCRETE SHALL BE A.C.Q. LUMBER.

PROPOSED PILE PLAN

LEGEND

P1 = HELICAL PILE

HELICAL SCREW PILE SCHEDULE					
SYMBOL	QUANTITY	DESIGN CAPACITY	MIN. LENGTH	MIN. DIAM.	BEARING PLATE CAP
(P1)	31	15 KIPS MAX.	20 (FT)	3"	6X6X3/8"

TABLE R401.4.1
PRESUMPTIVE LOAD-BEARING
VALUES OF FOUNDATION MATERIALS^a

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

FOR SI : 1 POUND PER SQUARE FOOT = 0.0479 kPa

a: WHERE SOIL TESTS ARE REQUIRED BY SECTION R401.4, THE ALLOWABLE BEARING CAPACITIES OF THE SOIL SHALL BE PART OF THE RECOMMENDATIONS

b: WHERE THE BUILDING OFFICIAL DETERMINES THAT 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 A SOILS INVESTIGATION.

TABLE R402.2
MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE

TYPE OR LOCATION OF CONCRETE CONSTRUCTION	MINIMUM SPECIFIED COMPRESSIVE STRENGTH ^a (f _{cc})		
	Weathering Potential ^b		
	Negligible	Moderate	Severe
BASEMENT WALLS, FOUNDATION AND OTHER CONCRETE NOT EXPOSED TO THE WEATHER	2,500	2,500	2,500 ^c
BASEMENT SLABS AND INTERIOR SLABS ON GRADE, EXCEPT GARAGE FLOOR SLABS	2,500	2,500	2,500 ^c
BASEMENT SLABS, FOUNDATION WALLS, EXTERIOR WALLS AND OTHER VERTICAL CONCRETE WORK EXPOSED TO THE WEATHER	2,500	3,000 ^d	3,000 ^d
PORCHES, CAR PORT SLABS AND STEPS EXPOSED TO THE WEATHER AND GARAGE FLOOR SLABS	2,500	3,000 ^{d,e,f}	3,500 ^{d,e,f}

a. Strength at 28 days psi.

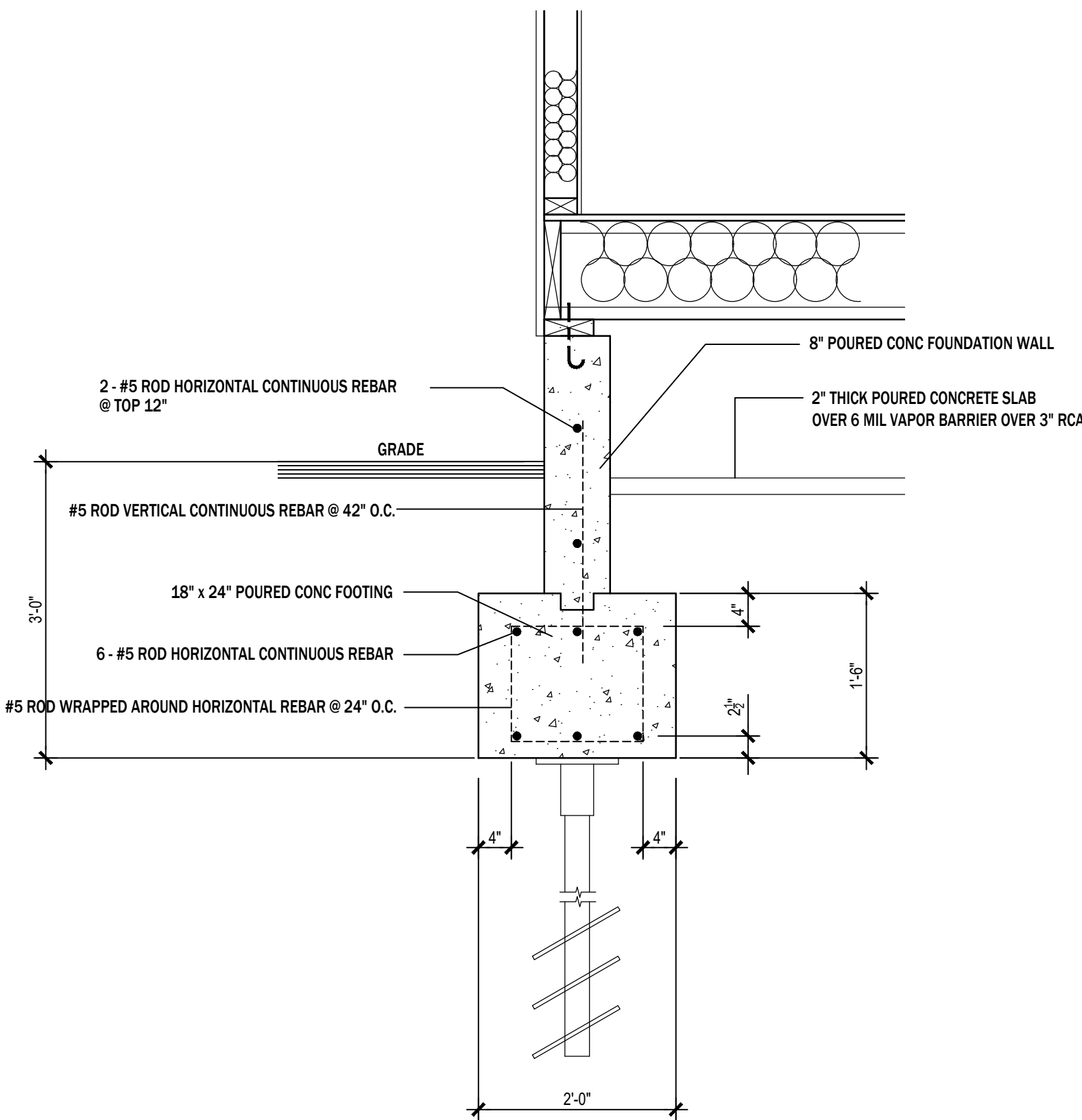
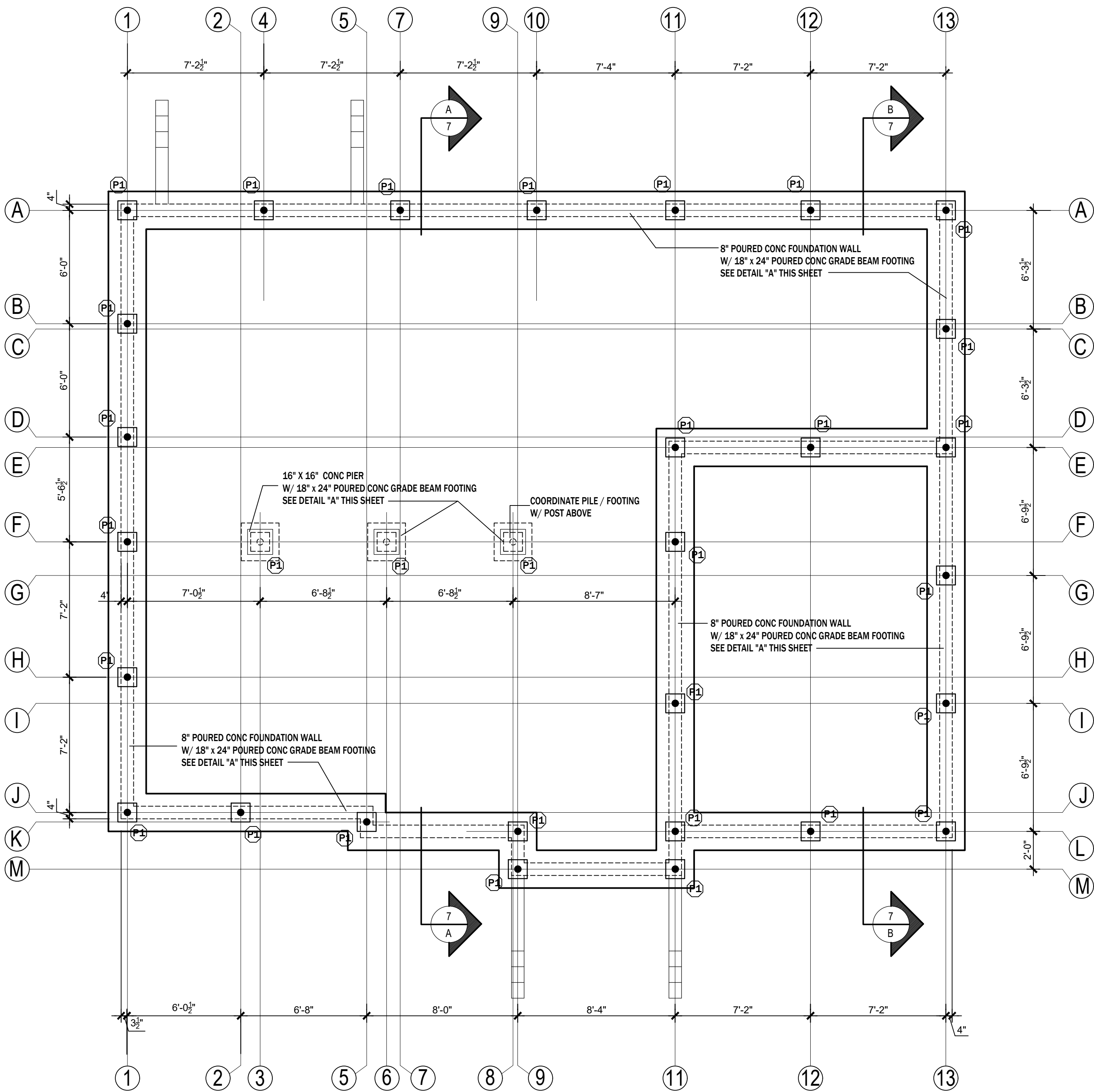
b. See Table R301.2(1) for weathering potential.

c. Concrete in this location that is subject to freezing and thawing during construction shall be air- entrained concrete in accordance with footnote d.

d. Concrete shall be air-entrained. Total air content (percent by volume of concrete) shall not be less than 5 percent or more than 7 percent.

e. See Section R402.2 for maximum cementitious materials content.

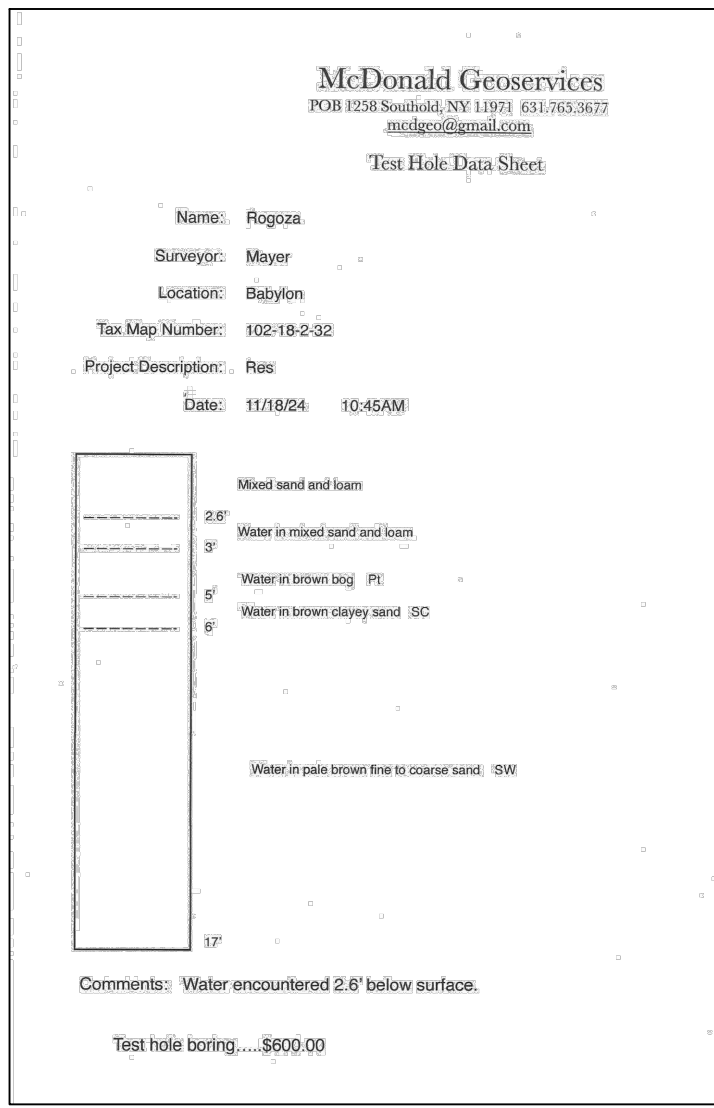
f. For garage floors with a steel-troweled finish, reduction of the total air content(percent by volume of concrete) to not less than 3 percent is permitted if the specified compressive strength of the concrete is increased to not less than 4,000 psi.



DETAIL "A"

FOUNDATION DETAIL

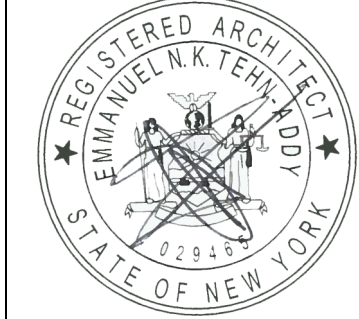
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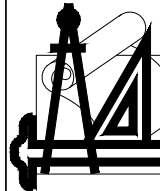
REVISIONS

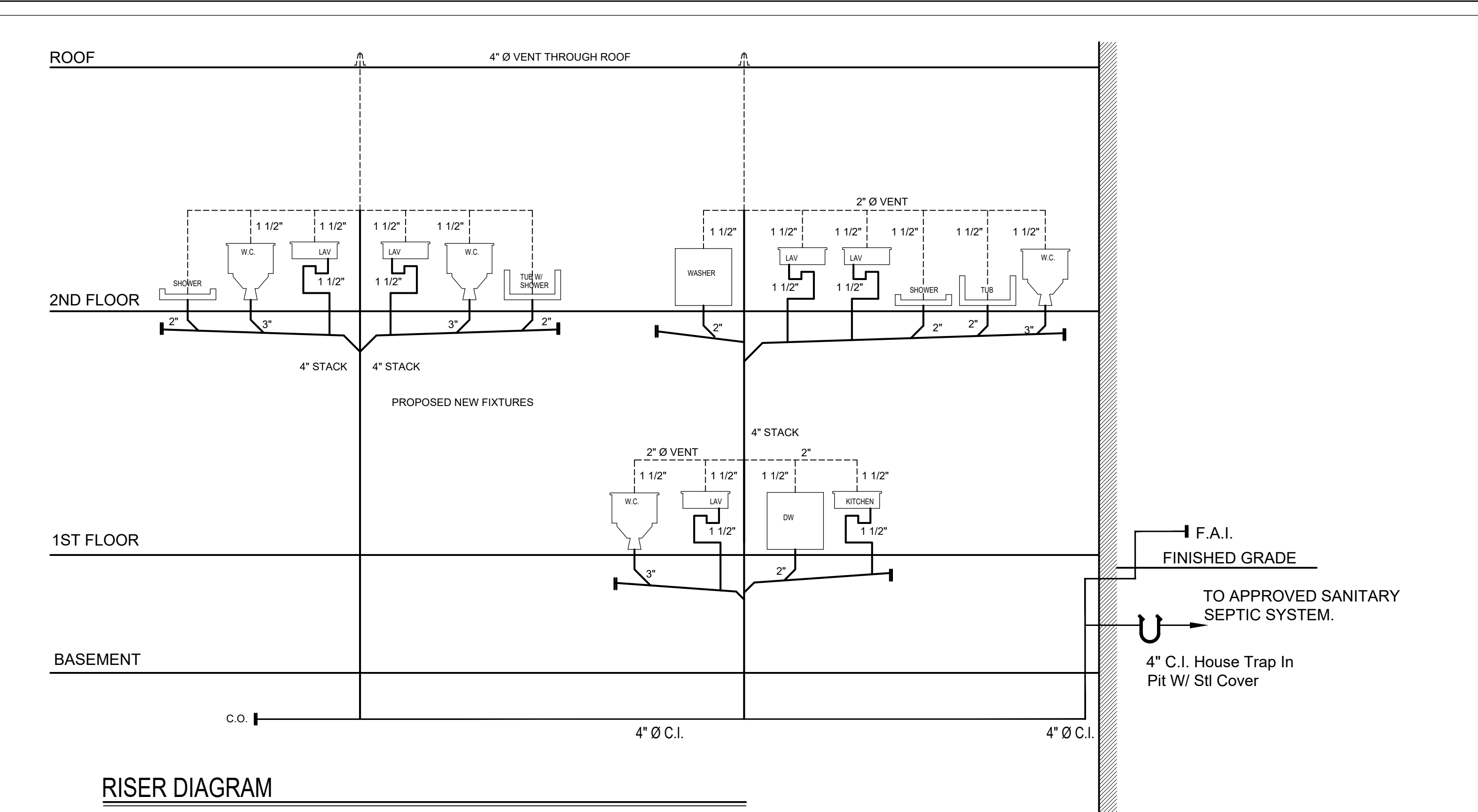
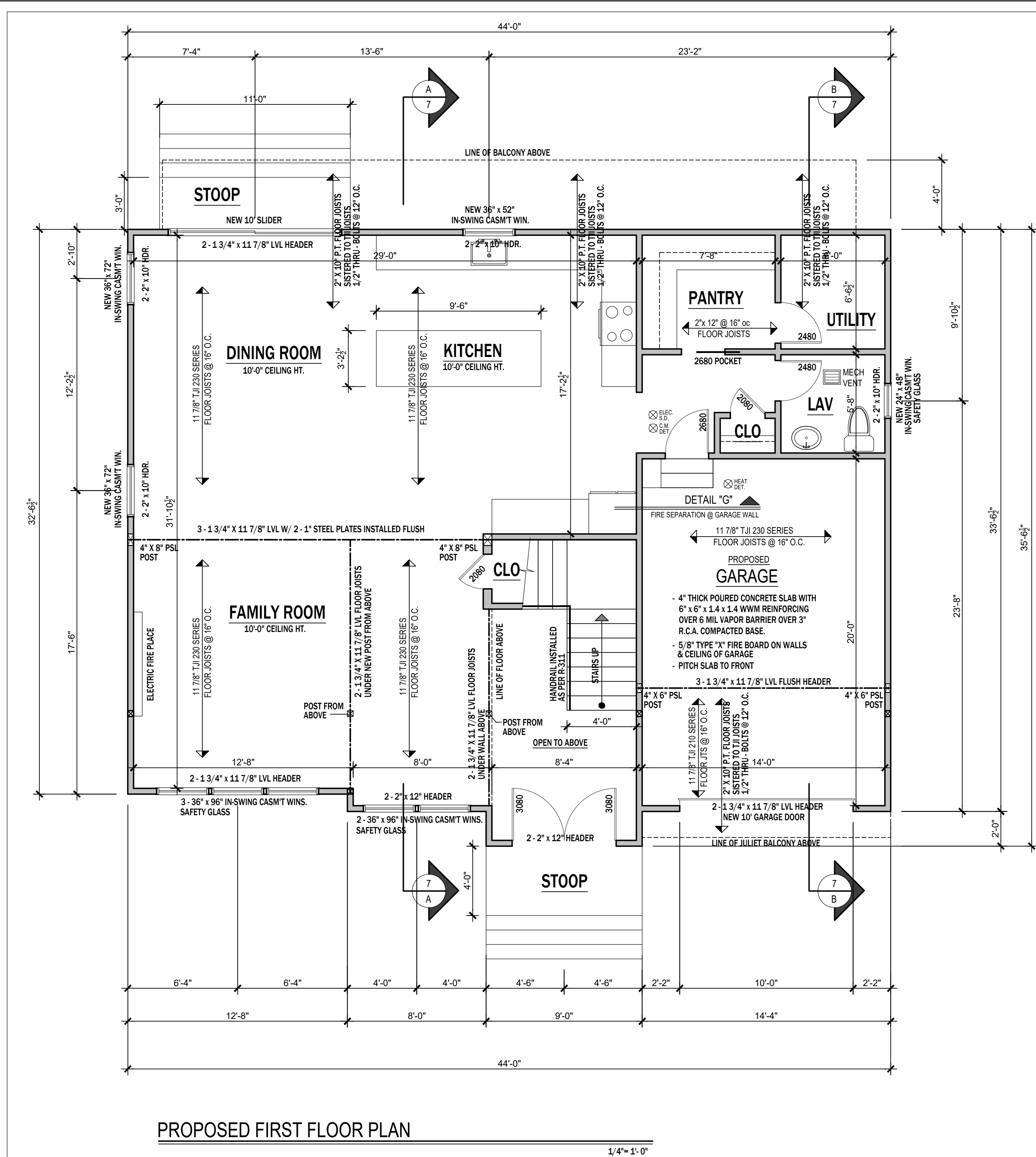
6-2-25: ISSUED TO BUILDING DEPARTMENT

SEAL



PROJECT PROPOSED NEW DWELLING	24 MIDWAY STREET	ARCHITECT TEHN DESIGN GROUP LLC	JOB NO. 24139
	BABYLON, NEW YORK		
	1257 UDALL RD.		
	BAY SHORE, NEW YORK		
DATE	4-24-25	SCALE	1/4"=1'-0"
DWG NO.	2		





1ST FLOOR WINDOW & DOOR SCHEDULE

WINDOW	QUANTITY	ROUGH OPENING	CLEAR OPEN	REMARKS
36" x 96"	5	36 1/2" x 96 1/2"	19.2 S.F.	FAMILY ROOM [T]
36" x 72"	2	36 1/2" x 72 1/2"	14.9 S.F.	DINING ROOM [T]
36" x 52"	1	36 1/2" x 52 1/2"	10.5 S.F.	KITCHEN
24" x 48"	1	36 1/2" x 48 1/2"	5.9 S.F.	LAV. SAFETY GLASS
10' GARAGE	1	10'-0" x 8'-0"		GARAGE DOORS
10' x 8' SLIDER	1	120" x 84"		DINING ROOM
3080	2	36" x 84"		FOYER
2680	1	30" x 84"		GARAGE, 34 HR S.C.F.P.
2680 POCKET	1	30" x 84"		PANTRY
2480	2	28" x 84"		LAV & UTILITY
2080	2	24" x 84"		CLO

WINDOWS SHALL BE MANUFACTURED BY: DOM EU HOME DECOR : ALUMINUM DEH-K-001 , COLOR: BLACK

[E] = INDICATES EMERGENCY ESCAPE & RESCUE OPENING AS PER R310.1
WINDOW & DOOR DESIGN PRESSURE TO BE GREATER THEN 30 PSF
SKYLITE DESIGN PRESSURE TO BE GREATER THEN 50 PSF AS PER TABLE R301.2(2)
[T] = THIS WINDOW MUST BE TEMPERED SAFETY GLASS
AS PER SECTION R308 OF NYS BC
[WOOD] = THIS WINDOW MUST BE PROVIDED WITH WINDOW OPENING CONTROL DEVICE
AS PER SECTION R312.2.2 OF NYS BC

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 OPENING SHALL BE REQUIRED IN EACH SLEEPING ROOM. EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL OPEN DIRECTLY INTO A PUBLIC WAY, OR TO A YARD OR COURT THAT OPENS TO A PUBLIC WAY.

R310.2.1 MINIMUM OPENING AREA
EMERGENCY ESCAPE AND RESCUE OPENINGS 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 NET CLEAR HEIGHT OF THE 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: GRADE FLOOR OPENINGS OR BELOW-GRADE OPENINGS SHALL HAVE A NET CLEAR OPENING AREA OF NOT LESS THAN 5 SQUARE FEET (0.465 M2).

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.

R312.2 WINDOW FALL PROTECTION
WINDOW FALL PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS R312.2.1 AND R312.2.2.

R312.2.1 WINDOW SILLS
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.

R312.2.2 WINDOW OPENING CONTROL DEVICES
WINDOW OPENING CONTROL DEVICES SHALL COMPLY WITH ASTM F2090. THE WINDOW OPENING CONTROL DEVICE, AFTER OPERATION TO RELEASE THE CONTROL DEVICE ALLOWING THE WINDOW TO FULLY OPEN, SHALL NOT REDUCE THE NET CLEAR OPENING AREA OF THE WINDOW UNIT TO LESS THAN THE AREA REQUIRED BY SECTION R310.2.1.

Table P3201.7
SIZE OF TRAPS FOR PLUMBING FIXTURES

PLUMBING FIXTURE	TRAP SIZE (MIN. IN.)
BATHTUB (with or without shower head and/or whirlpool attachments)	1 1/2
Bidet	1 1/4
Clothes with 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: 5.7gpm and less more than 5.7gpm up to 12.3gpm more than 12.3gpm up to 25.8gpm more than 25.8gpm up to 55.6gpm	1 1/2 2 3 4

- PLUMBING
1. ALL WASTE AND VENT PIPING ABOVE GRADE SHALL BE PVC SCHEDULE 40 DWV.
 2. ALL WASTE PIPING BELOW GRADE SHALL BE STANDARD WEIGHT CAST IRON.
 3. ALL HOT AND COLD WATER SUPPLY PIPING SHALL BE TYPE L COPPER TUBING.
ALL SOLDER SHALL BE LEAD FREE.
 4. ALL SUPPLY PIPING SHALL BE INSULATED WITH 1/2" INSULATION.
 5. ALL FIXTURES SHALL BE AS SELECTED BY OWNER.
 6. ALL WORK SHALL CONFORM TO REQUIREMENTS OF THE HEALTH DEPT., STATE BUILDING AND ENERGY CODE.

Sec. P3103.1 - Roof Extensions
Open vent pipes that extend through a roof shall be terminated not less than 6 inches above the anticipated snow accumulation, whichever is greater. Where a roof is to be used for an assembly, as a promenade, observation deck or sunbathing deck or for simple purposes, open vent pipes shall terminate not less than 7'-0" above the roof.

Sec. P3103.2 - Frost Closure
Where 95% value for outside design temperature is 0 degrees F or less, vent extension through a roof or wall shall be no less than 3 inches in diameter. Any increase in the size of the vent shall be made not less than 1 foot inside the thermal envelope of the building.

REVISIONS

6-2-25: ISSUED TO BUILDING DEPARTMENT

SEAL

PROJECT

PROPOSED NEW DWELLING

CLIENT

BABYLON STREET RESIDENCE

ARCHITECT

TEHN DESIGN GROUP LLC

24 MIDWAY STREET
BABYLON, NEW YORK 1257

1257 UDALL RD.
BAY SHORE, NEW YORK 11716

JOB NO.

24139

DATE

4-24-25

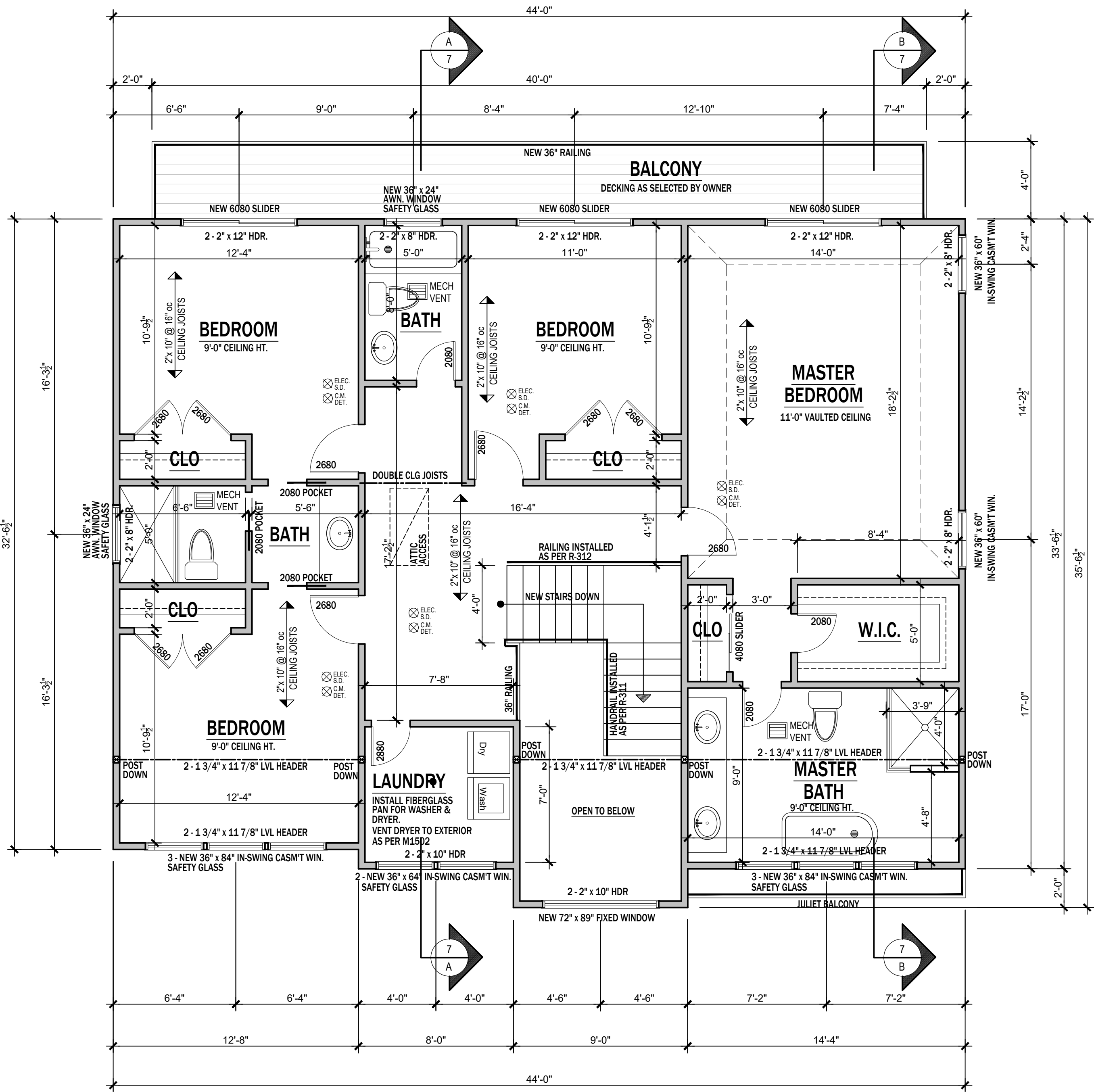
SCALE

1/4"=1'-0"

DWG NO.

4

15



PROPOSED SECOND FLOOR PLAN

1/4"= 1'-0"

2ND FLOOR WINDOW & DOOR SCHEDULE				
WINDOW	QUANTITY	ROUGH OPENING	CLEAR OPEN	REMARKS
36" x 84"	3	36 1/2" x 84 1/2"	16.7 S.F.	BEDROOM [T] [WOOD]
36" x 84"	3	36 1/2" x 84 1/2"	16.7 S.F.	MASTER BATH, [T] [WOOD]
36" x 64"	2	36 1/2" x 64 1/2"	12.5 S.F.	LAUNDRY
72" x 89"	1	72 1/2" x 89 1/2"	40.1 S.F.	OPEN TO BELOW FOYER
36" x 60"	2	36 1/2" x 60 1/2"	12.1 S.F.	MASTER BEDROOM
36" x 24"	2	36 1/2" x 24 1/2"	4.3 S.F.	BATH, SAFETY GLASS
6080 SLIDER	3	72" x 84"		BEDROOM
2880	1	32" x 84"		LAUNDRY
2680	10	30" x 84"		BEDROOM, CLO
2080	3	24" x 84"		CLO
2080 POCKET	3	24" x 84"		BATH
4080 SLIDER	1	48" x 84"		CLO
WINDOWS SHALL BE MANUFACTURED BY: DOM EU HOME DECOR : ALUMINUM DEH-K-001 , COLOR: BLACK				
[E] = INDICATES EMERGENCY ESCAPE & RESCUE OPENING AS PER R310.1 WINDOW & DOOR DESIGN PRESSURE TO BE GREATER THEN 30 PSF SKYLITE DESIGN PRESSURE TO BE GREATER THEN 50 PSF AS PER TABLE R301.2(2) [T] = THIS WINDOW MUST BE TEMPERED SAFETY GLASS AS PER SECTION R308 OF NYS BC [WOOD] = THIS WINDOW MUST BE PROVIDED WITH WINDOW OPENING CONTROL DEVICE AS PER SECTION R312.2.2 OF NYS BC				

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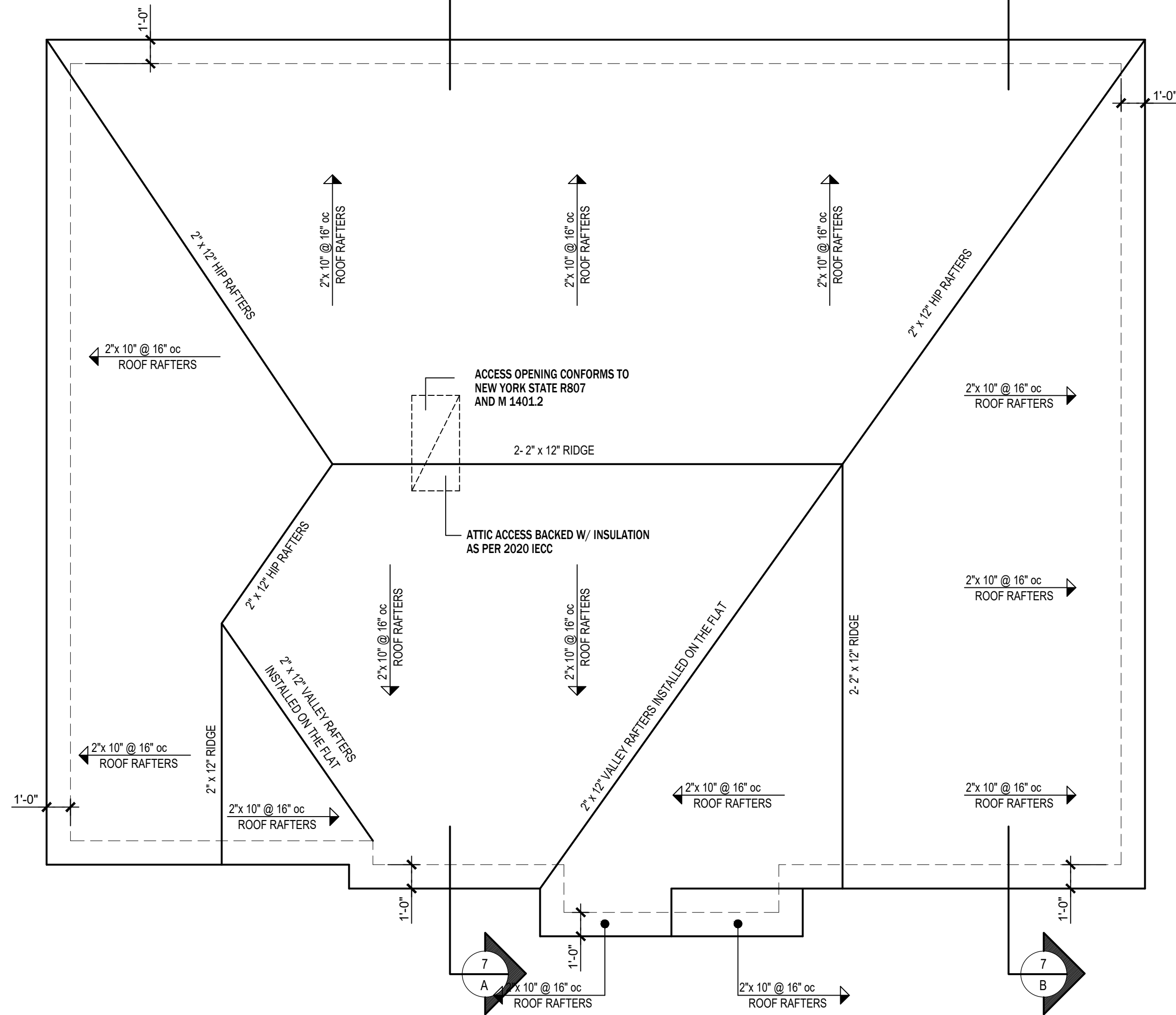
EXCEPTION: GRADE FLOOR OPENINGS OR BELOW-GRADE OPENINGS SHALL HAVE A NET CLEAR OPENING AREA OF NOT LESS THAN 5 SQUARE FEET (0.465 M2).

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R312.2.1 WINDOW SILLS
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OPERABLE WINDOWS ARE PROVIDED WITH WINDOW OPENING CONTROL DEVICES THAT COMPLY WITH SECTION R312.2.2.

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WINDOW OPENING CONTROL DEVICES SHALL COMPLY WITH ASTM F2090. THE WINDOW OPENING CONTROL DEVICE, AFTER OPERATION TO RELEASE THE CONTROL DEVICE ALLOWING THE WINDOW TO FULLY OPEN, SHALL NOT REDUCE THE NET CLEAR OPENING AREA OF THE WINDOW UNIT TO LESS THAN THE AREA REQUIRED BY SECTION R310.2.1.



PROPOSED ROOF PLAN

1/4"= 1'-0"

R302.12 DRAFTSTOPPING REQUIRED

DRAFTSTOPPING SHALL BE PROVIDED IN ACCORDANCE WITH SECTION R302.12.

R302.12 DRAFTSTOPPING

IN COMBUSTIBLE CONSTRUCTION WHERE THERE IS USABLE SPACE BOTH ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY, DRAFTSTOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1,000 SQUARE FEET (92.9 M2). DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. WHERE THE ASSEMBLY IS ENCLOSED BY A FLOOR MEMBRANE ABOVE AND A CEILING MEMBRANE BELOW, DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR-CEILING ASSEMBLIES UNDER THE FOLLOWING CIRCUMSTANCES:
CEILING IS SUSPENDED UNDER THE FLOOR FRAMING.

FLOOR FRAMING IS CONSTRUCTED OF TRUSS-TYPE OPEN-WEB OR PERFORATED MEMBERS.

R302.12.1 MATERIALS

DRAFTSTOPPING MATERIALS SHALL BE NOT LESS THAN 1/2-INCH (12.7 MM) GYPSUM BOARD, 3/8-INCH (9.5 MM) WOOD STRUCTURAL PANELS OR OTHER APPROVED MATERIALS ADEQUATELY SUPPORTED. DRAFTSTOPPING SHALL BE INSTALLED PARALLEL TO THE FLOOR FRAMING MEMBERS UNLESS OTHERWISE APPROVED BY THE BUILDING OFFICIAL. THE INTEGRITY OF THE DRAFTSTOPS SHALL BE MAINTAINED.

R302.13 FIREBLOCKING REQUIRED

FIREBLOCKING SHALL BE PROVIDED IN ACCORDANCE WITH SECTION R302.11.

R302.11 FIREBLOCKING

IN COMBUSTIBLE CONSTRUCTION, FIREBLOCKING SHALL BE PROVIDED TO CUT OFF BOTH VERTICAL AND HORIZONTAL CONCEALED DRAFT OPENINGS AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE.

FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAMED CONSTRUCTION IN THE FOLLOWING LOCATIONS:
IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
VERTICALLY AT THE CEILING AND FLOOR LEVELS.
HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET (3048 MM).
AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.

IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.7.
AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILING AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E 136 REQUIREMENTS.
FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE SECTION R1003.19.
FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF DWELLING UNIT SEPARATION.

DRAFTSTOPPING AND FIREBLOCKING

R302.11.1 FIREBLOCKING MATERIALS

EXCEPT AS PROVIDED IN SECTION R302.11, ITEM 4, FIREBLOCKING SHALL CONSIST OF THE FOLLOWING MATERIALS.
TWO-INCH (51 MM) NOMINAL LUMBER.
TWO THICKNESSES OF 1-INCH (25.4 MM) NOMINAL LUMBER WITH BROKEN LAP JOINTS.
ONE THICKNESS OF 23/32-INCH (18.3 MM) WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 23/32-INCH (18.3 MM) WOOD STRUCTURAL PANELS.
ONE THICKNESS OF 3/4-INCH (19.1 MM) PARTICLEBOARD WITH JOINTS BACKED BY 3/4-INCH (19.1 MM) PARTICLEBOARD.
ONE-HALF-INCH (12.7 MM) GYPSUM BOARD.
ONE-QUARTER-INCH (6.4 MM) CEMENT-BASED MILLBOARD.
BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE.
CELLULOSE INSULATION INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, FOR THE SPECIFIC APPLICATION.

R302.11.1.1 BATTS OR BLANKETS OF MINERAL OR GLASS FIBER

BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NONRIGID MATERIALS SHALL BE PERMITTED FOR COMPLIANCE WITH THE 10-FOOT (3048 MM) HORIZONTAL FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROWS OF STUDS OR STAGGERED STUDS.

R302.11.1.2 UNFACED FIBERGLASS

UNFACED FIBERGLASS BATT INSULATION USED AS FIREBLOCKING SHALL FILL THE ENTIRE CROSS SECTION OF THE WALL CAVITY TO A HEIGHT OF NOT LESS THAN 16 INCHES (406 MM) MEASURED VERTICALLY. WHERE PIPING, CONDUIT OR SIMILAR OBSTRUCTIONS ARE ENCOUNTERED, THE INSULATION SHALL BE PACKED TIGHTLY AROUND THE OBSTRUCTION.

R302.11.1.3 LOOSE-FILL INSULATION MATERIAL

LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIREBLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES.

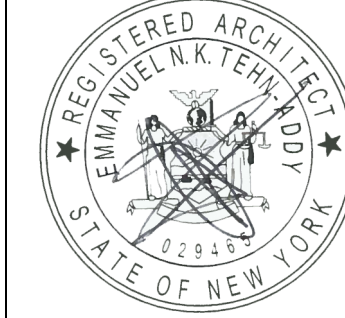
R302.11.2 FIREBLOCKING INTEGRITY

THE INTEGRITY OF FIREBLOCKS SHALL BE MAINTAINED.

REVISIONS

6-2-25: ISSUED TO BUILDING DEPARTMENT

SEAL



PROJECT
PROPOSED NEW DWELLING

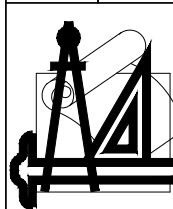
CLIENT
MIDWAY STREET RESIDENCE

ARCHITECT
TEHN DESIGN GROUP LLC

DATE
4-24-25

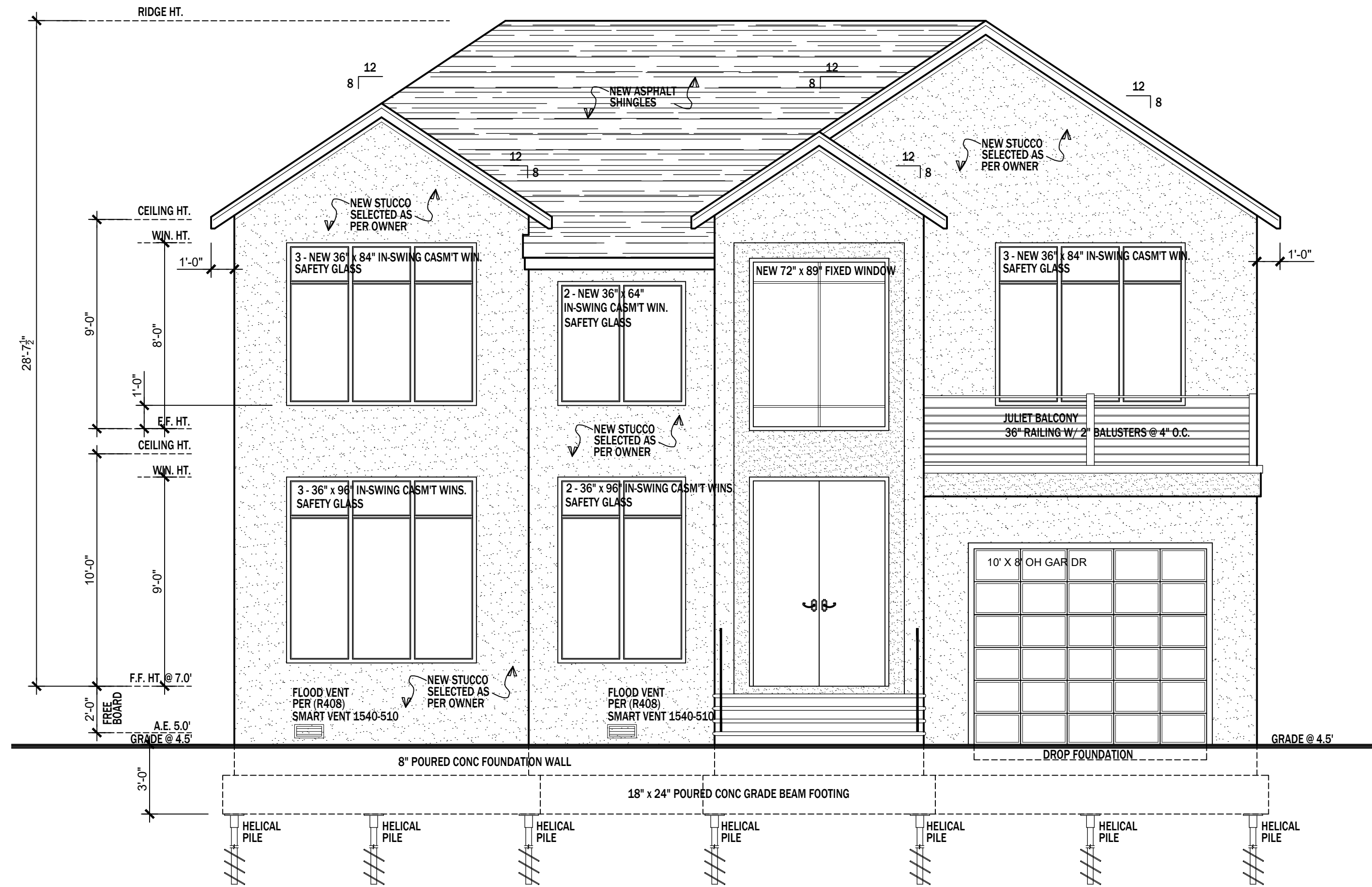
SCALE
1/4"=1'-0"

JOB NO.
24139



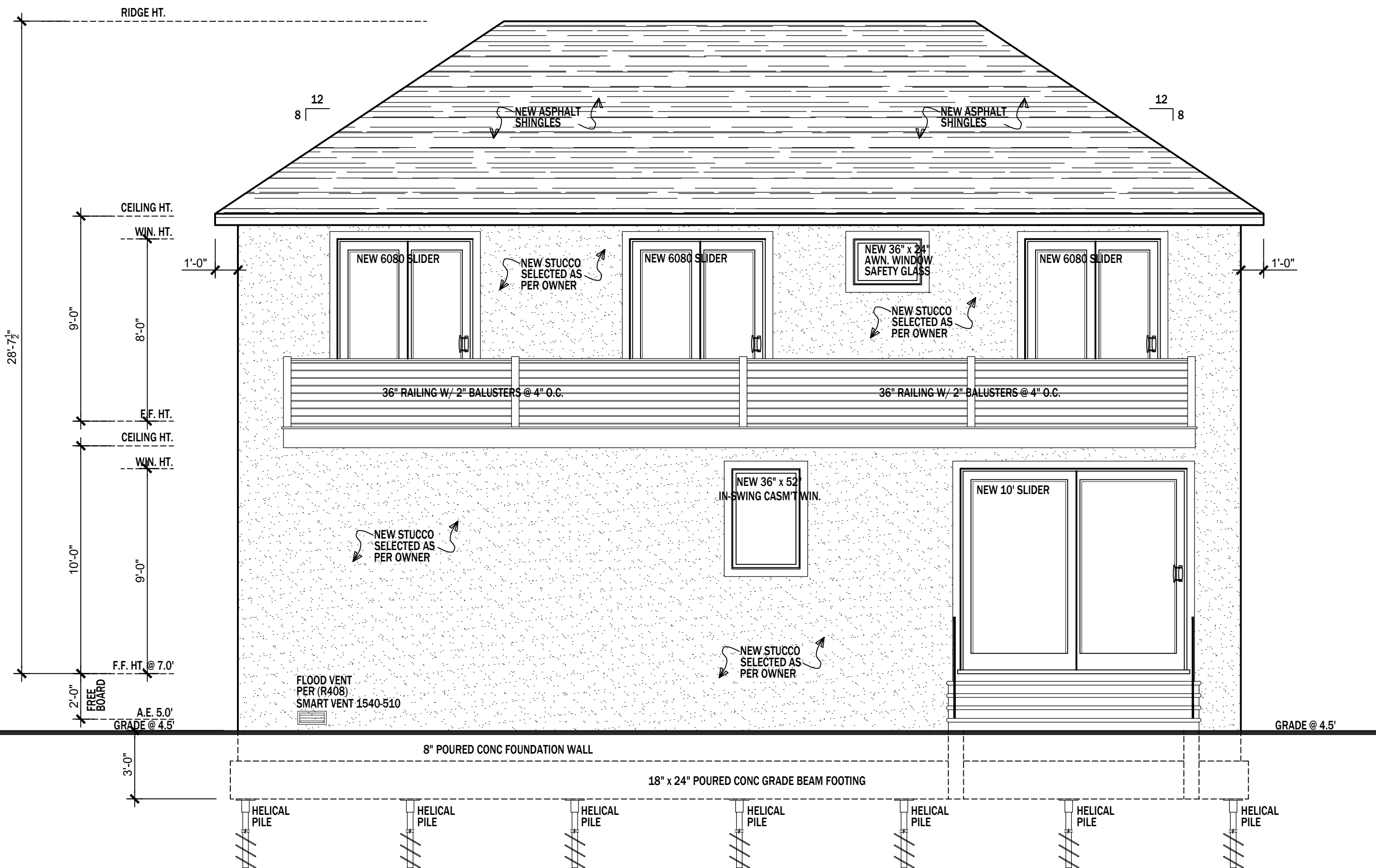
DWG NO.
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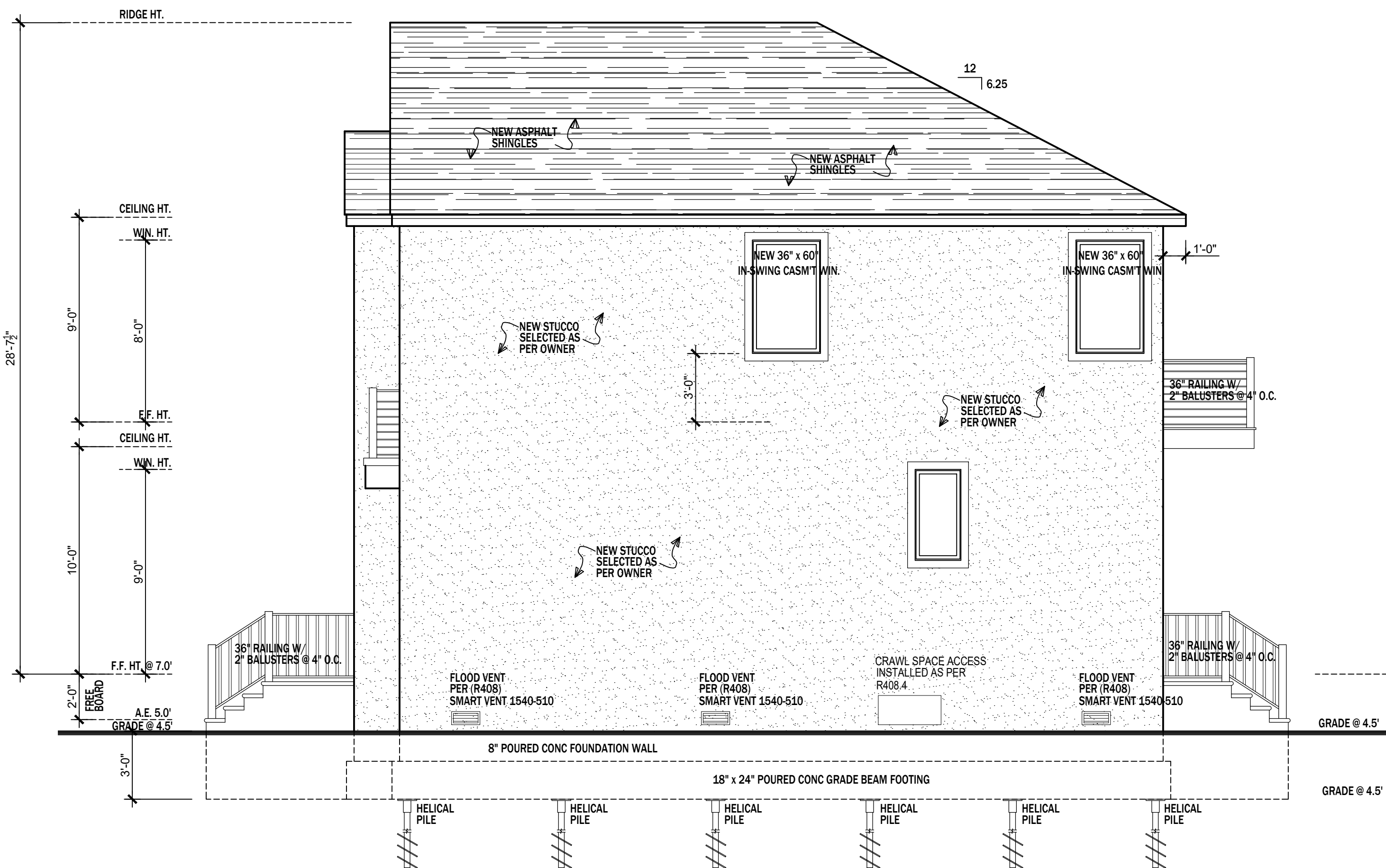
PROPOSED FRONT ELEVATION

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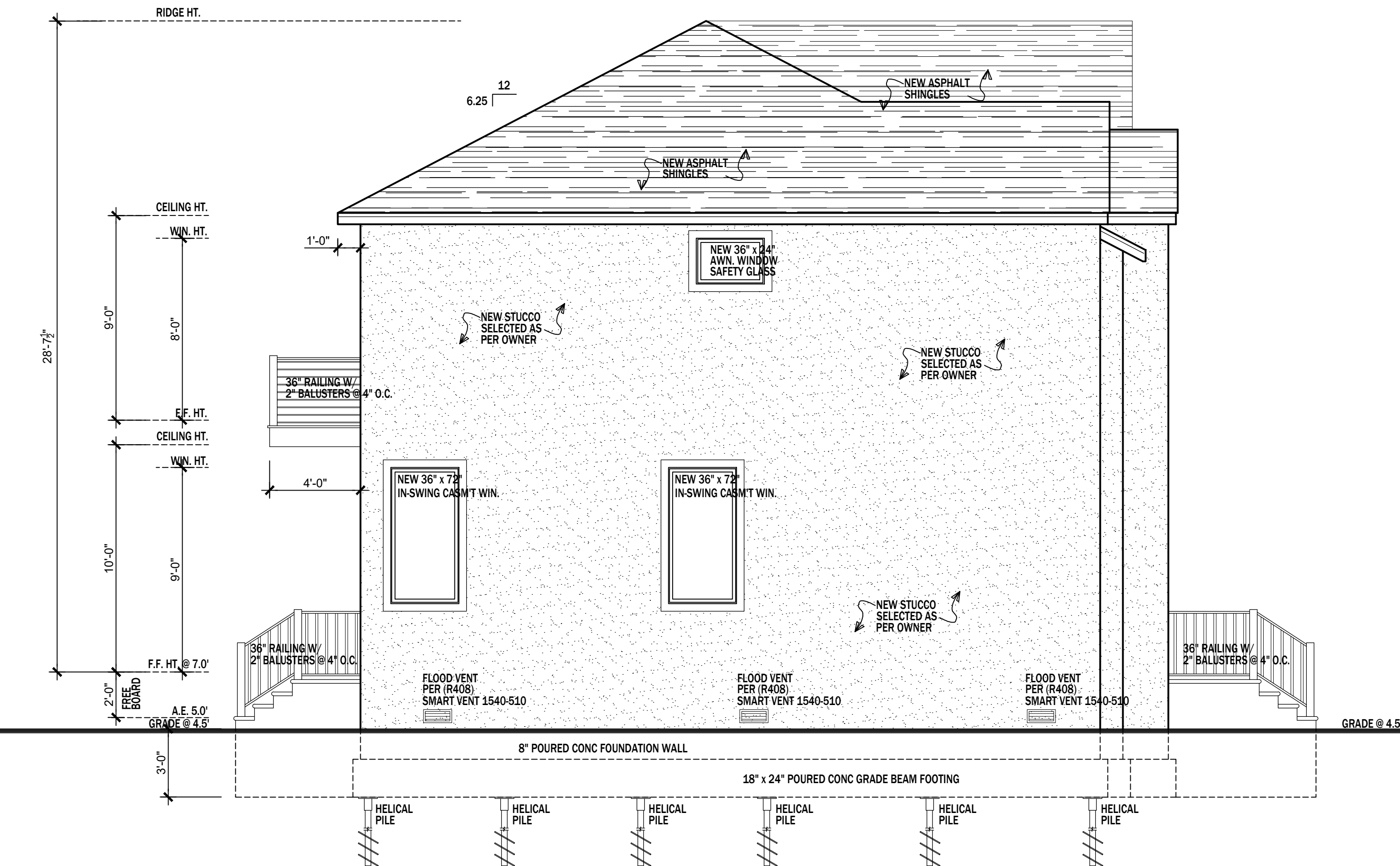
PROPOSED REAR ELEVATION

1/4"= 1'-0"



PROPOSED RIGHT SIDE ELEVATION

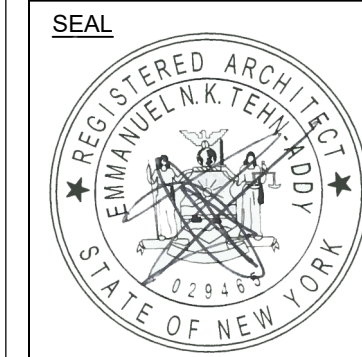
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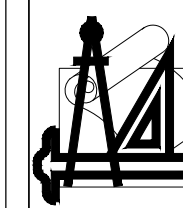
PROPOSED LEFT SIDE ELEVATION

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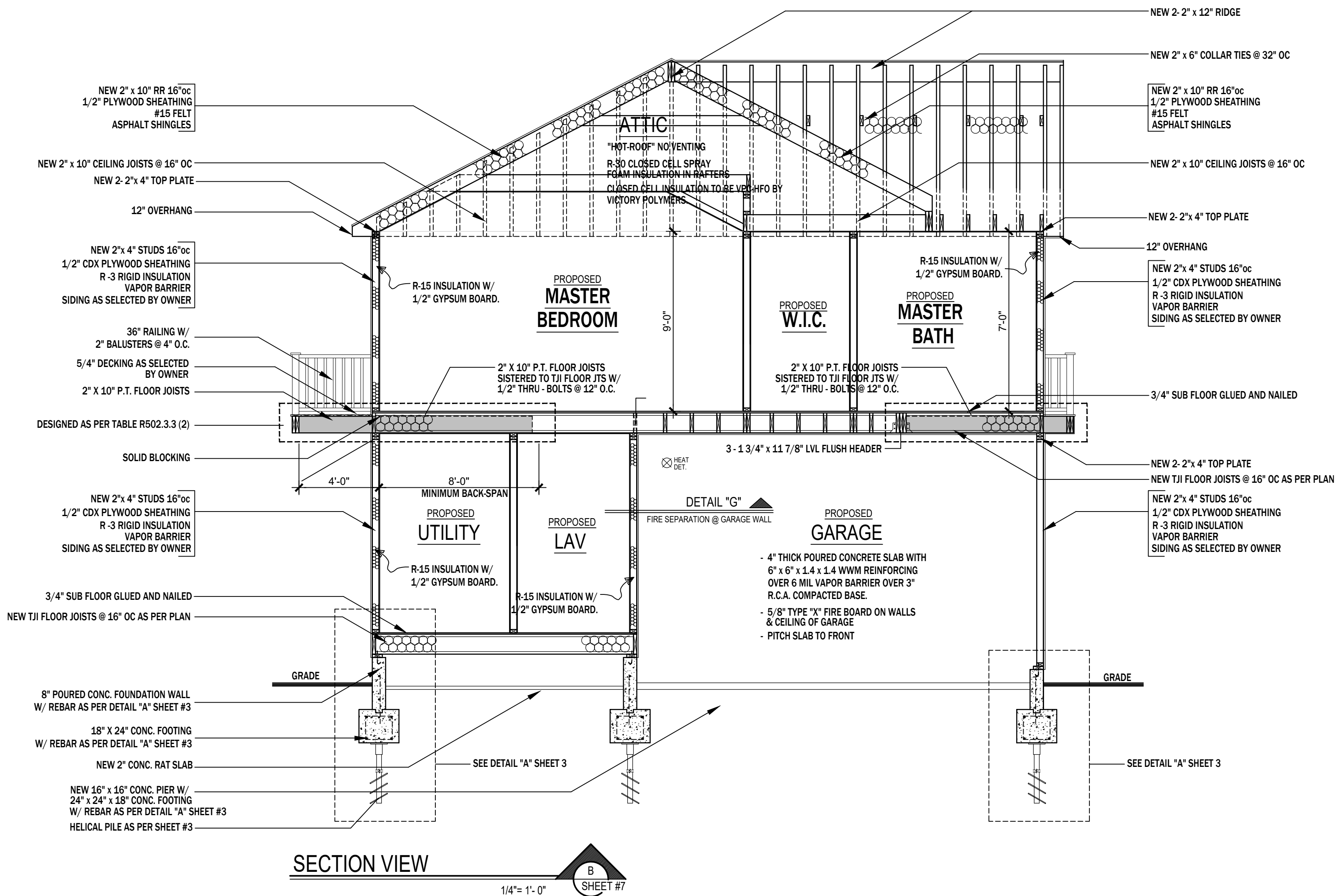
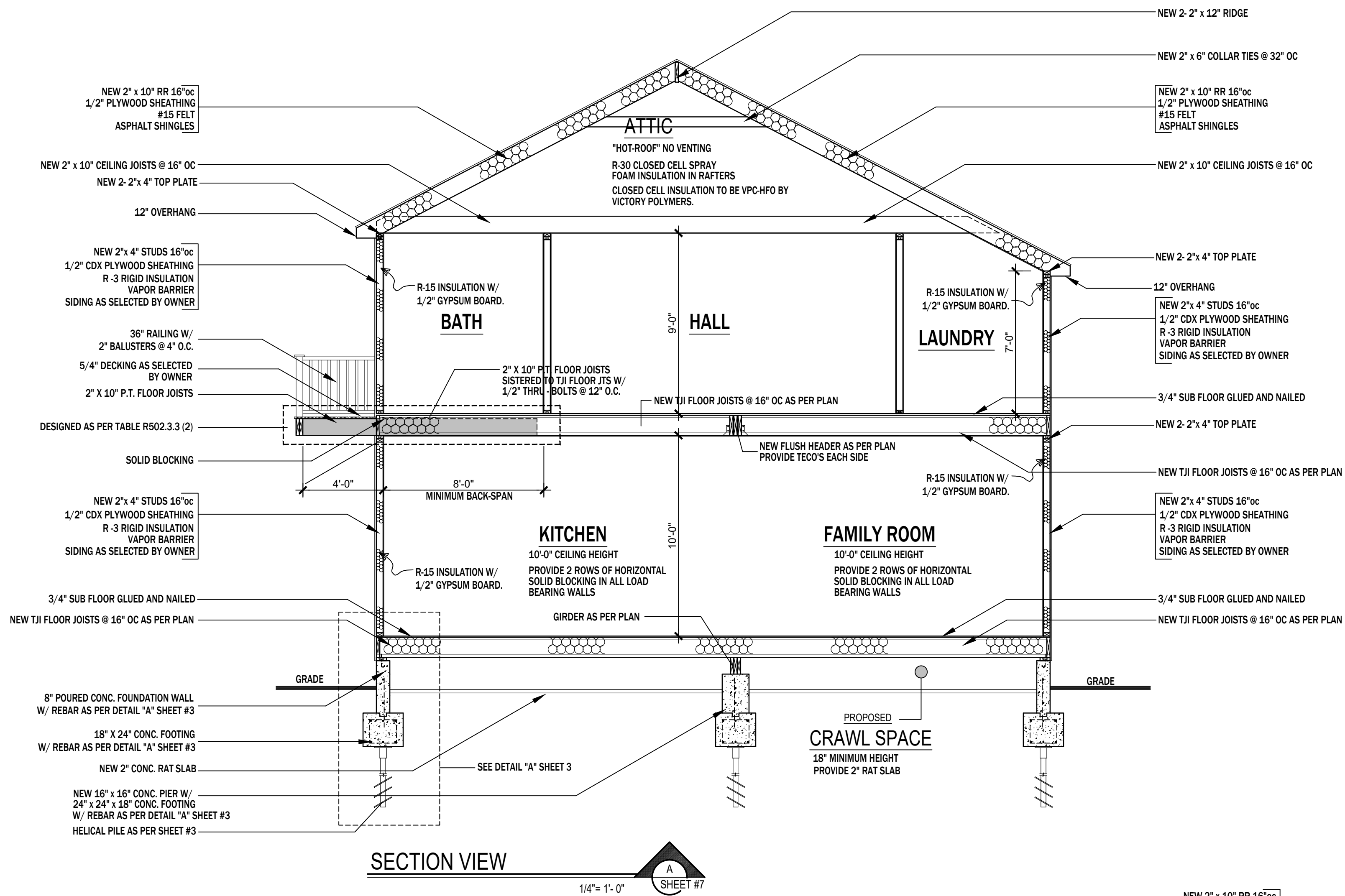
REVISIONS
6-2-25: ISSUED TO BUILDING DEPARTMENT



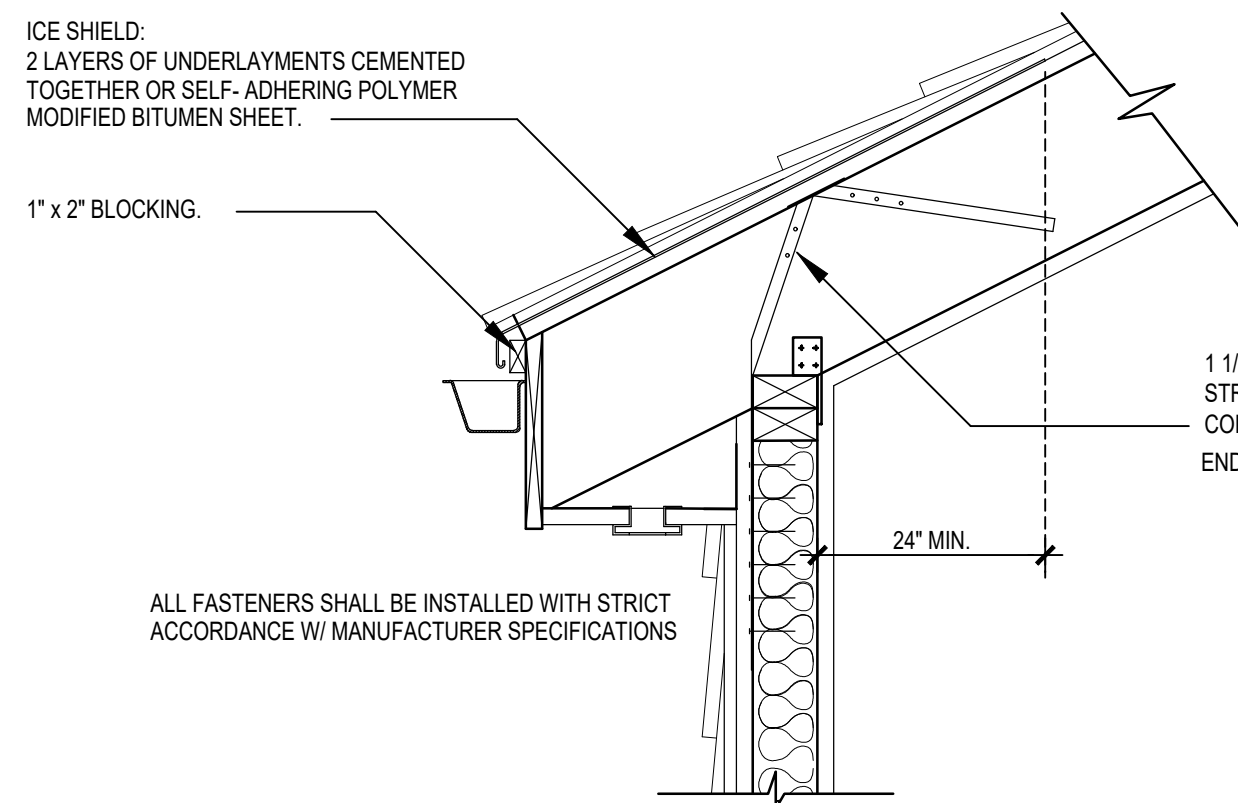
PROJECT	PROPOSED NEW DWELLING
CLIENT	MIDWAY STREET RESIDENCE
ARCHITECT	TEHN DESIGN GROUP LLC
DATE	4-24-25
SCALE	1/4"=1'-0"
JOB NO.	24139
CHECKED	631-888-7318



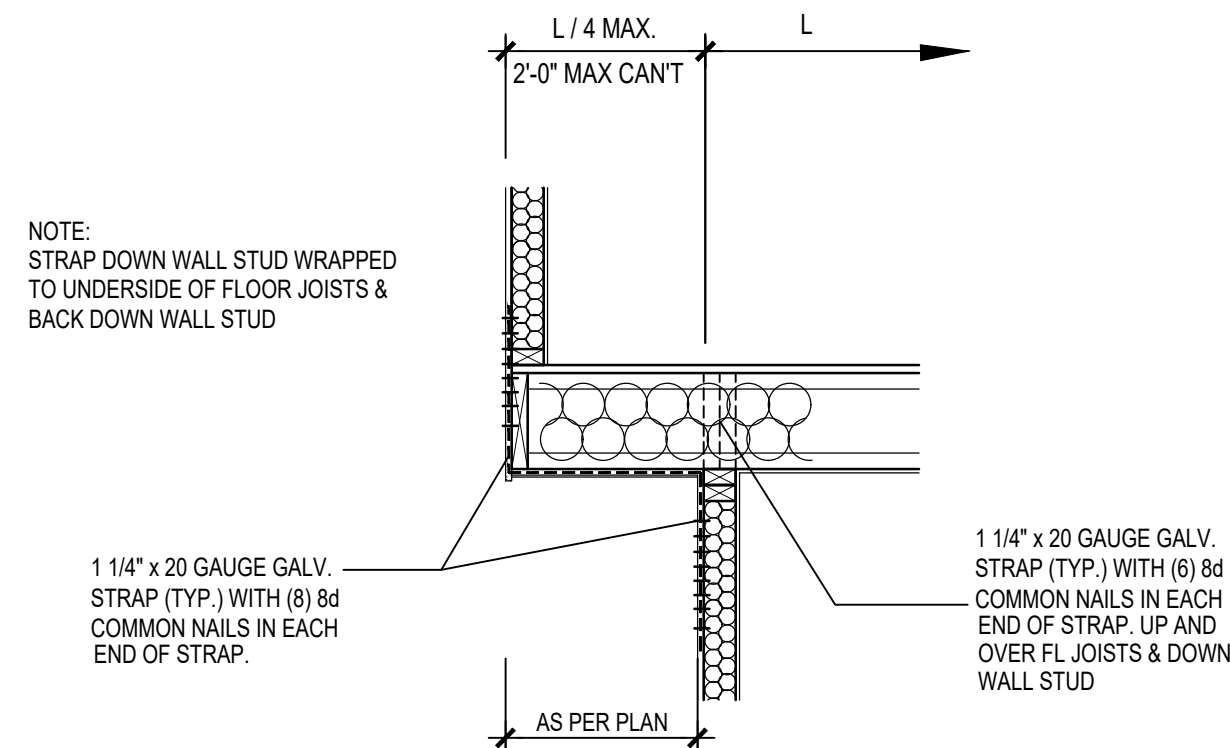
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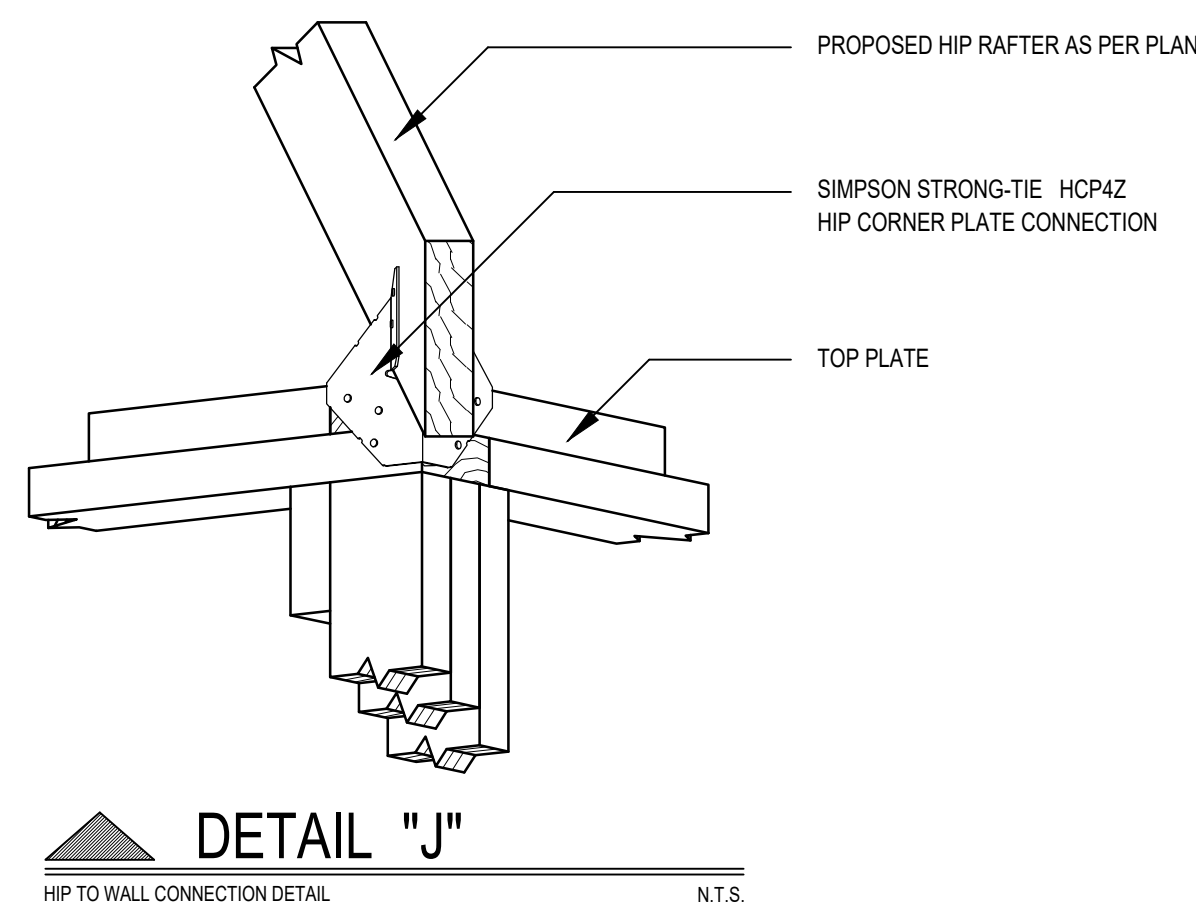
REVISIONS		6-2-25: ISSUED TO BUILDING DEPARTMENT	
SEAL		REGISTERED ARCHITECT EMMANUEL N.K. TECHNICAL STATE OF NEW YORK	
PROJECT	PROPOSED NEW DWELLING	CLIENT	24 MIDWAY STREET BABYLON, NEW YORK
ARCHITECT	MIDWAY STREET RESIDENCE	DATE	1257 UDALL RD. BAY SHORE, NEW YORK
DATE	4-24-25	JOB NO.	631-888-7318
SCALE	1/4"=1'-0"	CHECKED	
DWG NO.	7		
	15		



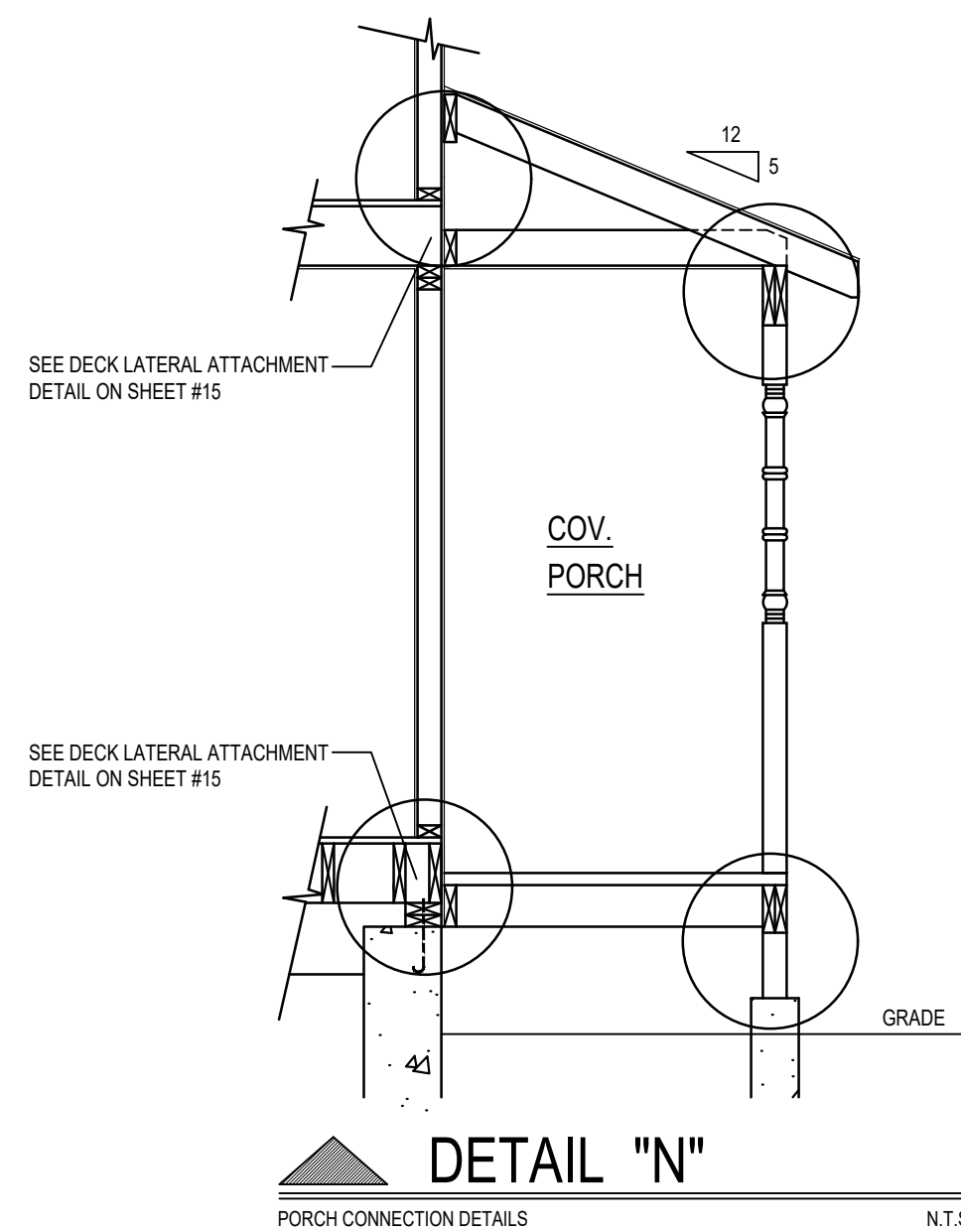
DETAIL "A"
ICE SHIELD & UPLIFT CONNECTION
R. 905.1.2
R. 802.3.1
R. 802.5.1 (9)
N.T.S.



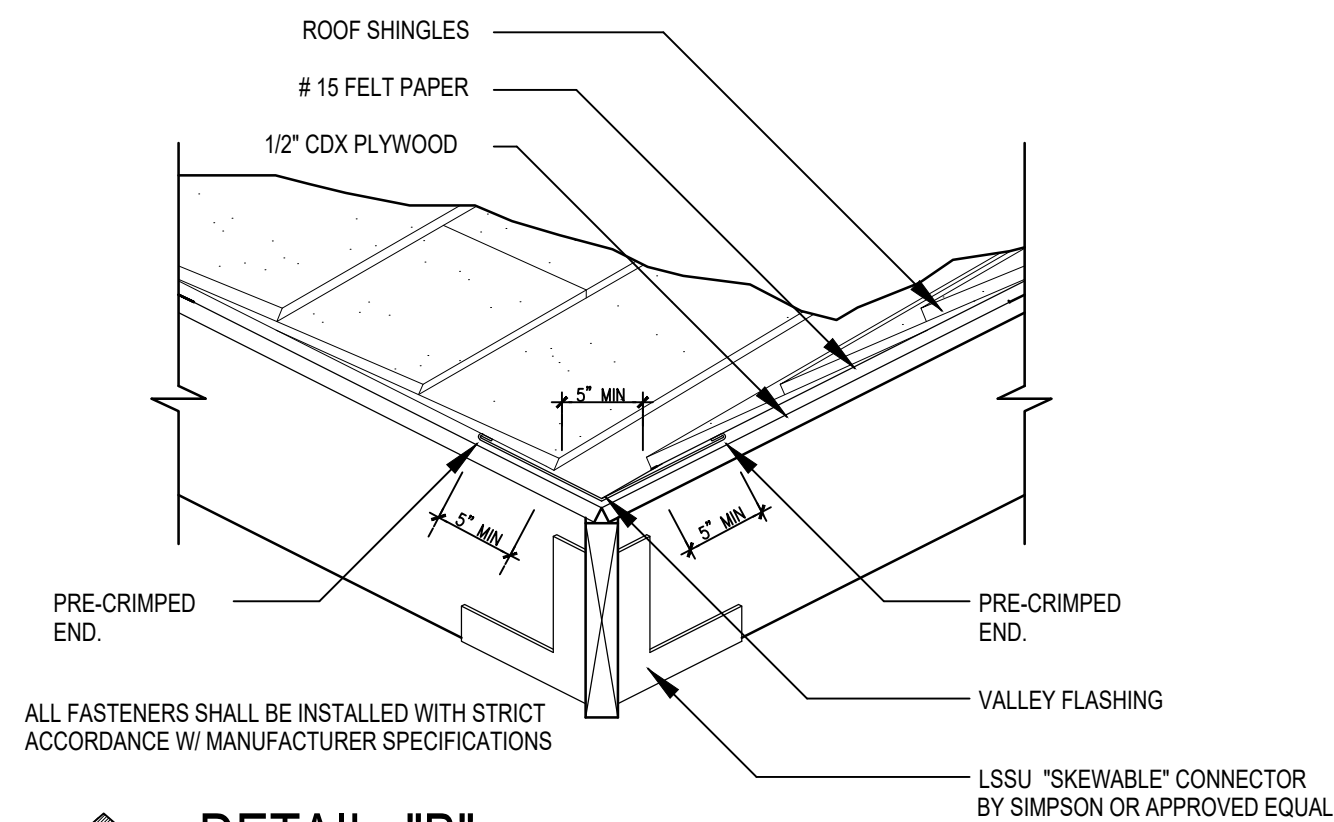
DETAIL "E"
CANTILEVER UPLIFT CONNECTION DETAIL
SEE TJI DETAILS ON SHEET #17
N.T.S.



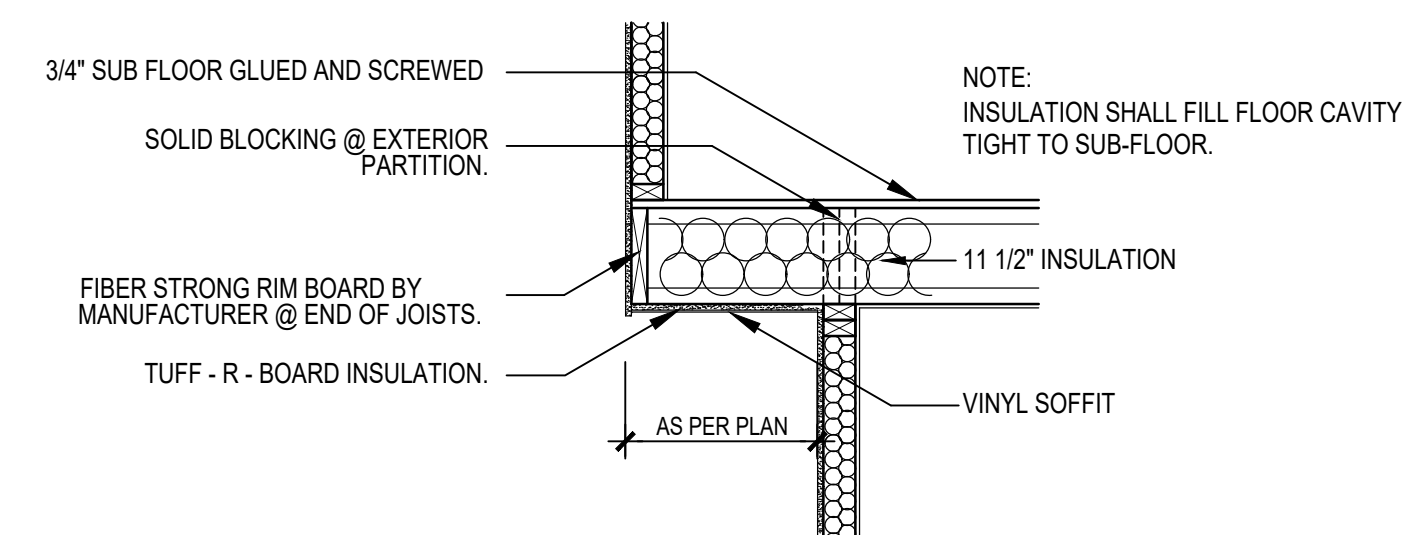
DETAIL "J"
HIP TO WALL CONNECTION DETAIL
N.T.S.



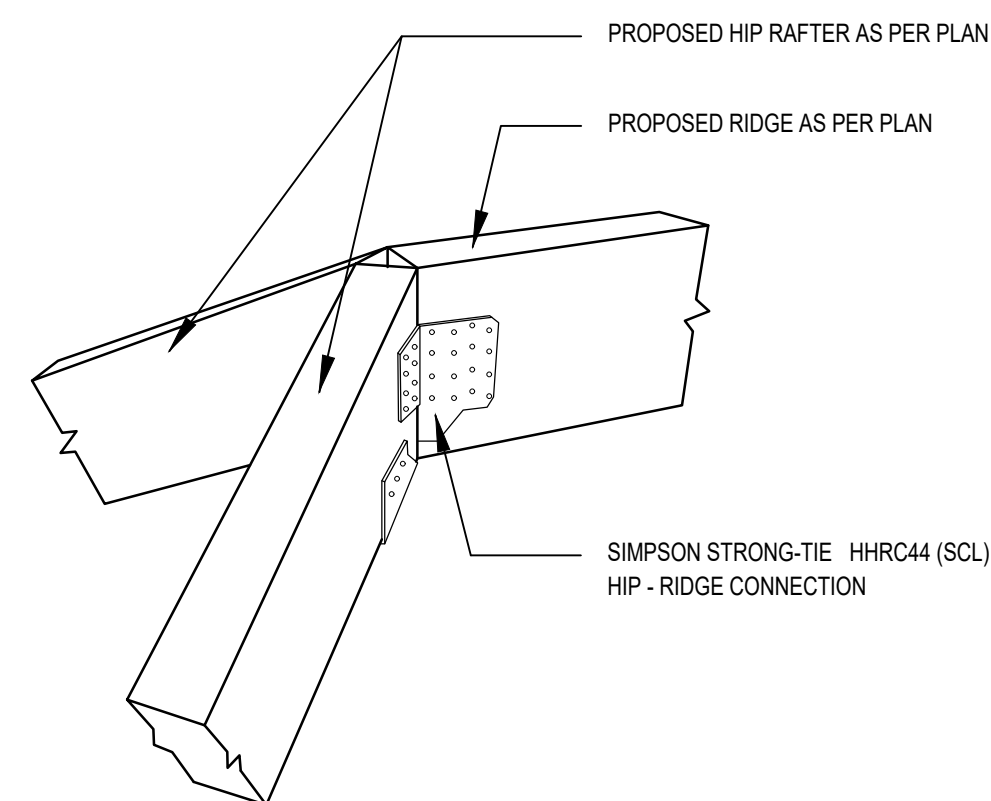
DETAIL "N"
PORCH CONNECTION DETAILS
N.T.S.



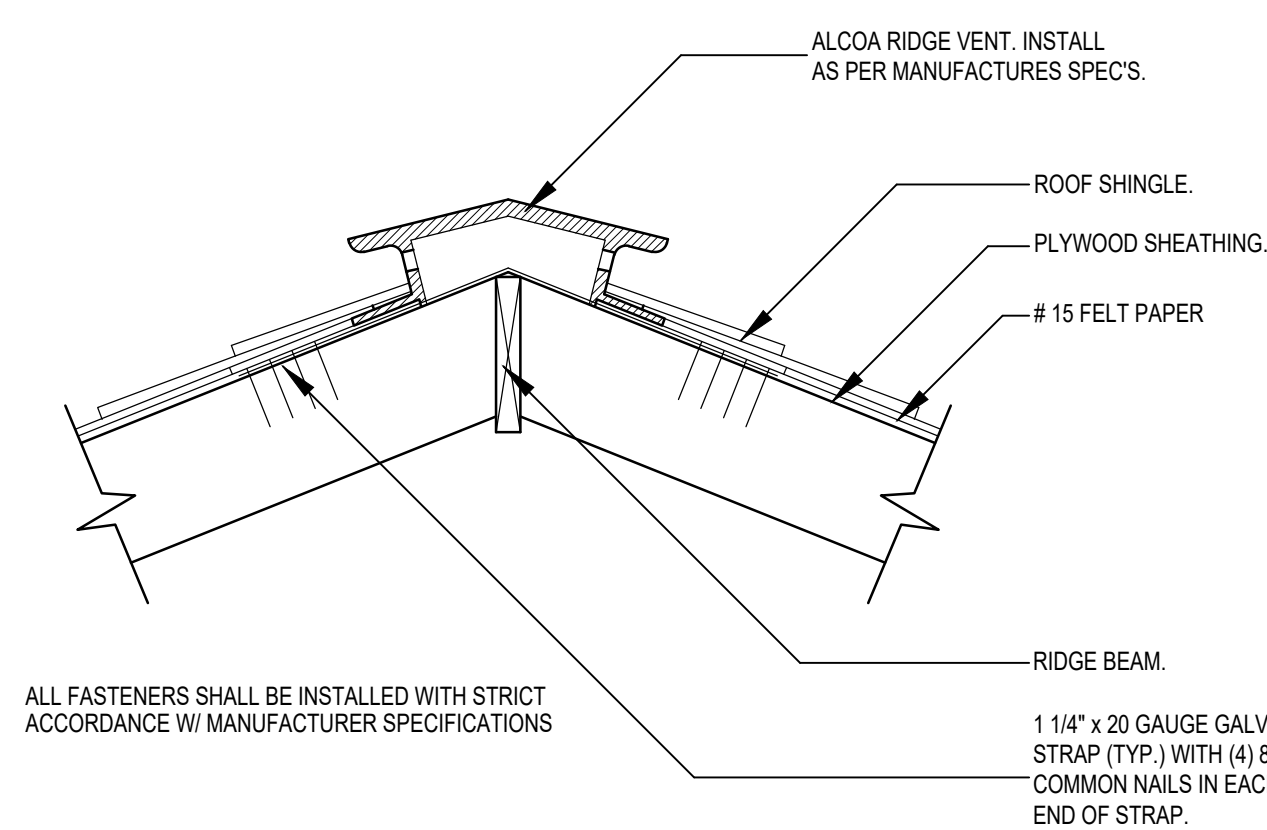
DETAIL "B"
VALLEY FLASHING
N.T.S.



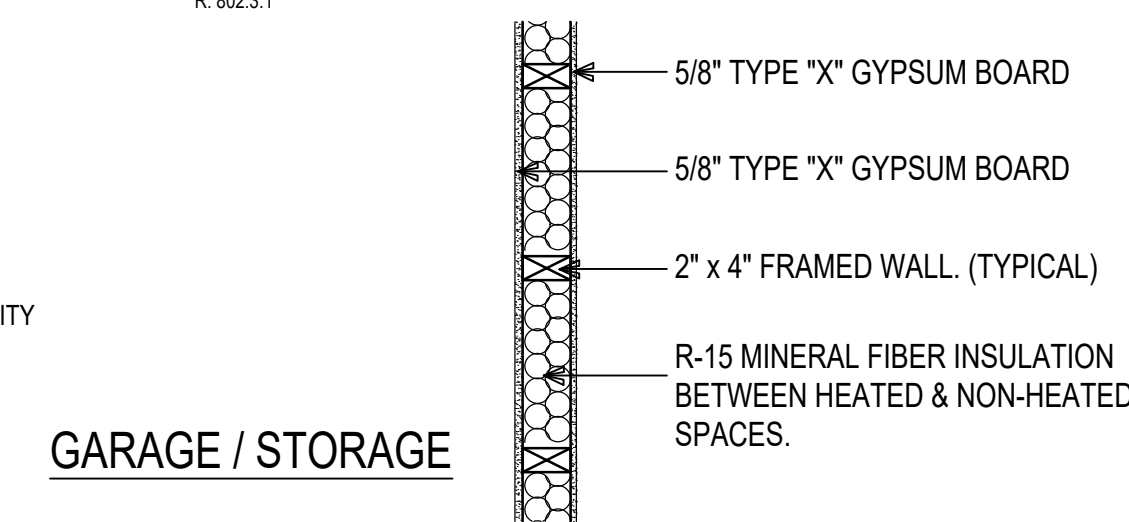
DETAIL "F"
CANTILEVER FRAMING DETAIL
SEE TJI DETAILS ON SHEET #17
1/2" = 1'-0"
N.T.S.



DETAIL "K"
HIP TO RIDGE CONNECTION DETAIL
1 1/2" = 1'-0"
N.T.S.



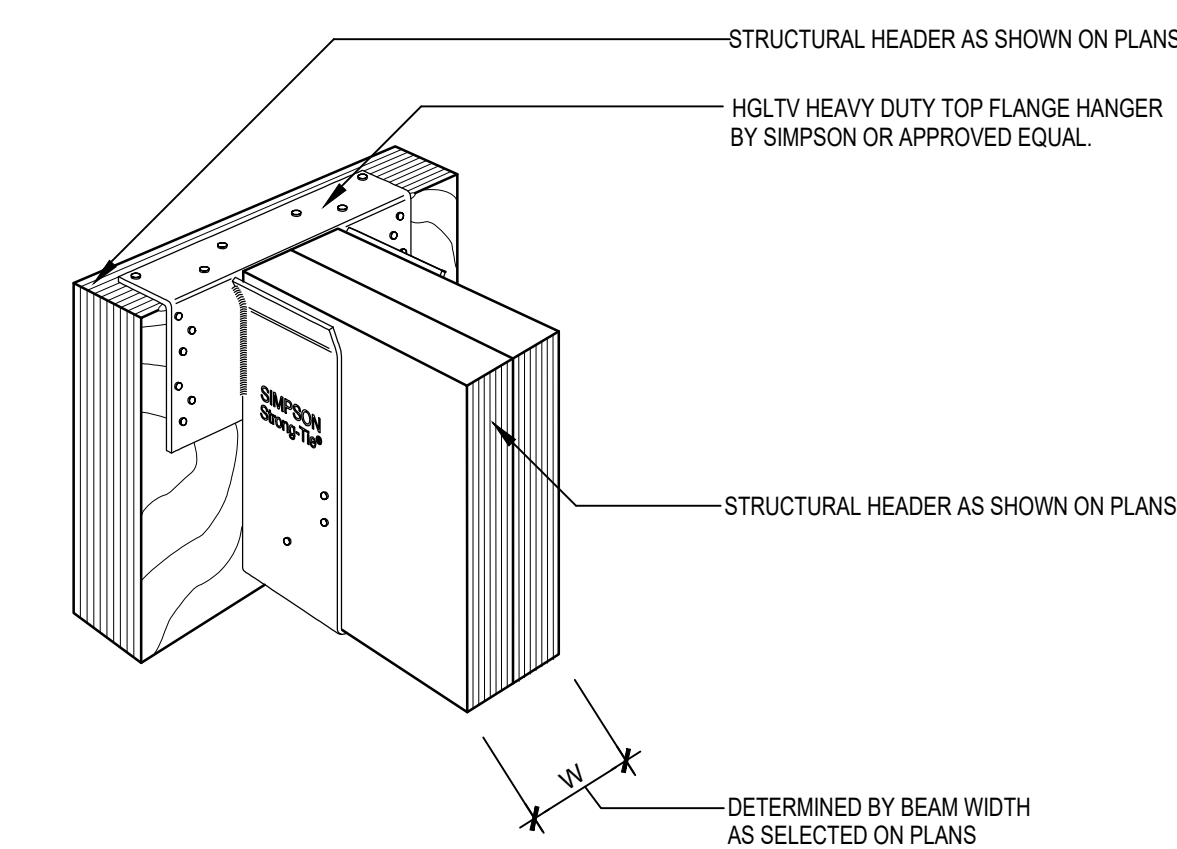
DETAIL "C"
RIDGE STRAP & VENT
R. 802.3
R. 802.5.1
N.T.S.



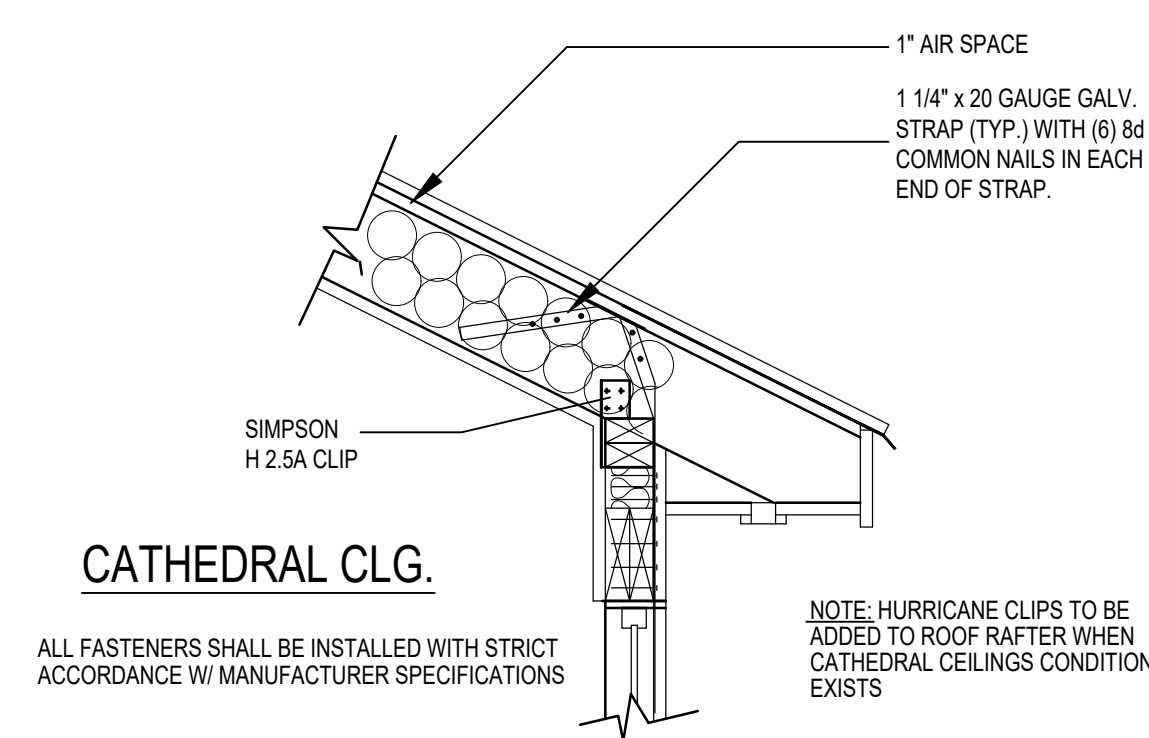
GARAGE / STORAGE

HABITABLE SPACE

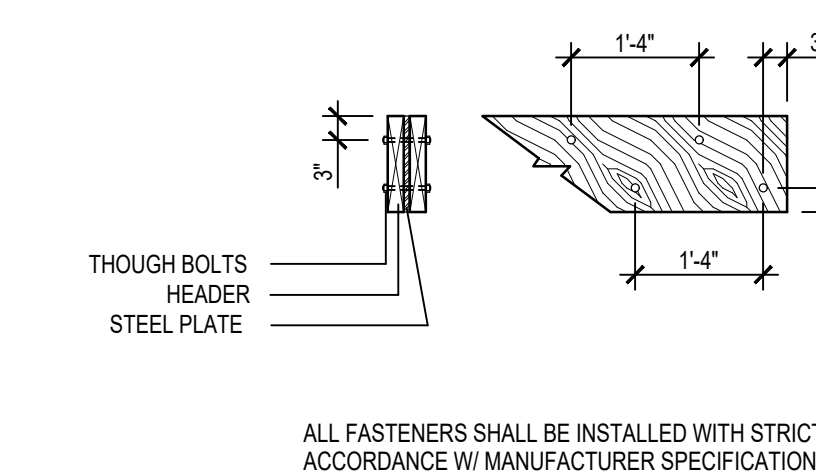
DETAIL "G"
FIRE SEPARATION @ GARAGE WALL
1 HOUR RATED
UL Design No. U333
N.T.S.



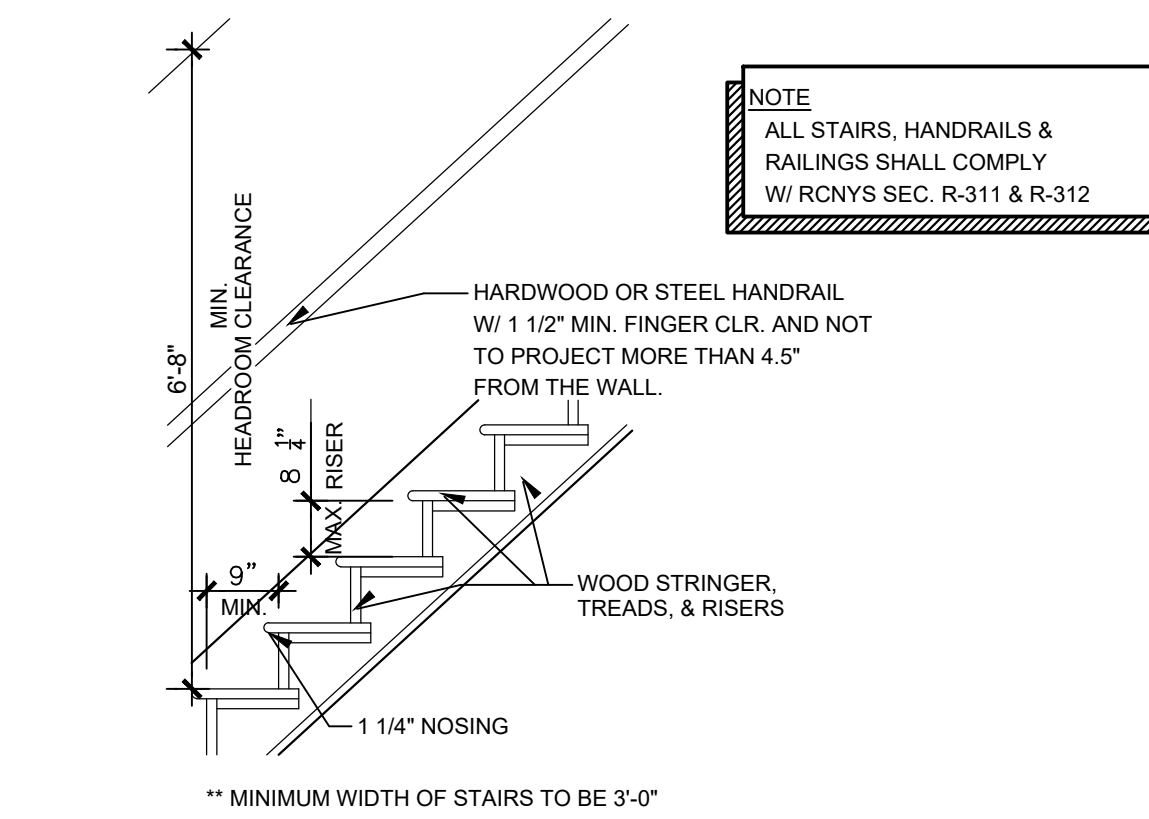
DETAIL "L"
STRUCTURAL HEADER - HEADER DETAIL
N.T.S.



DETAIL "D"
HURRICANE CLIP
R. 802.3.1
R. 802.5.1 (9)
N.T.S.

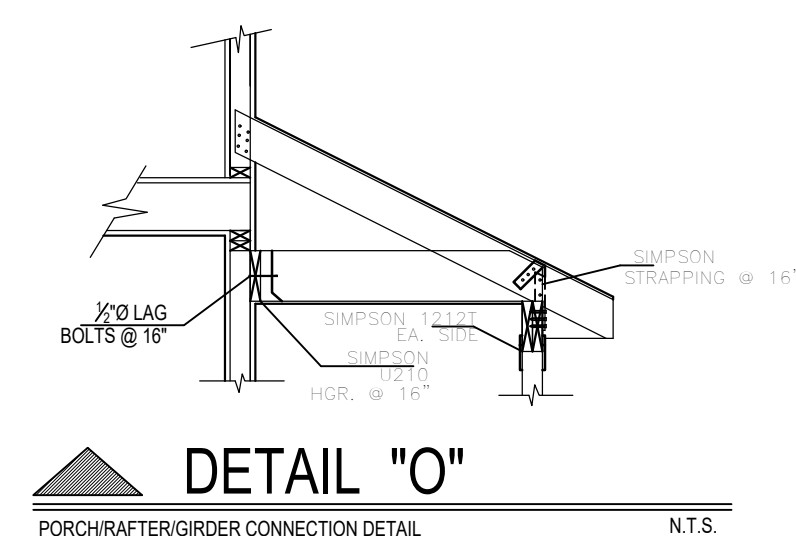
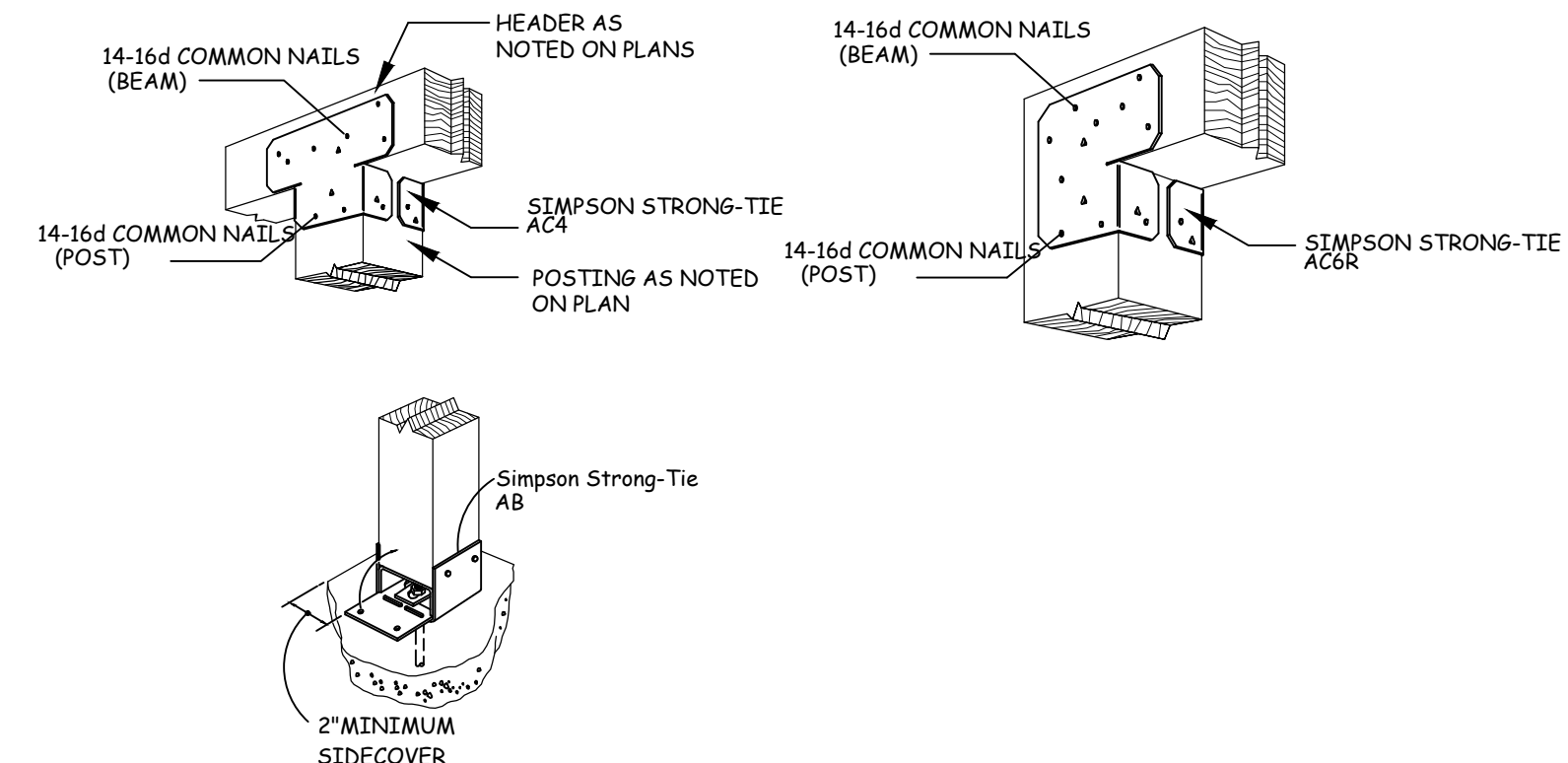


DETAIL "H"
HEADER W/ STEEL PLATE DETAIL
1/2" = 1'-0"
N.T.S.

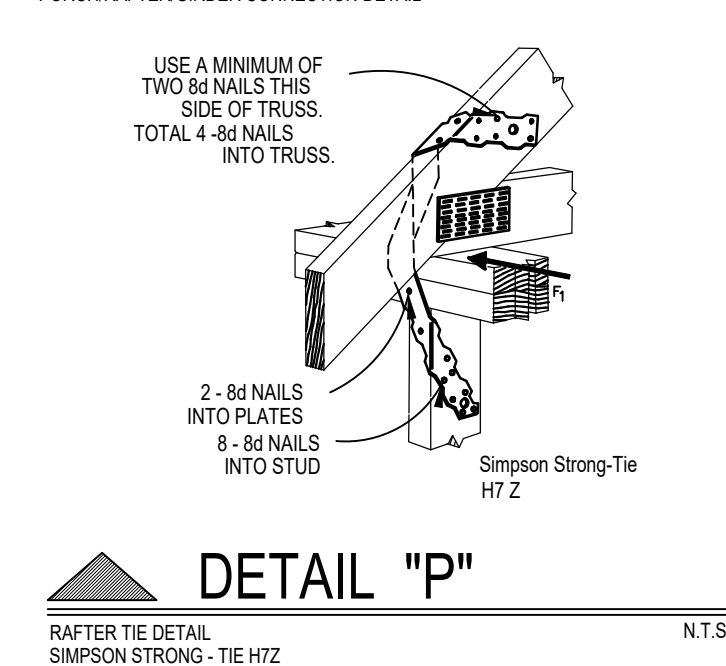


DETAIL "M"
STAIR AND RAILING DETAIL
N.T.S.

POST TO HDR & FTG CONNECTION

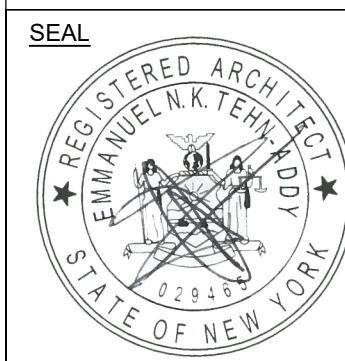


DETAIL "O"
PORCH/RAFTER/GIRDER CONNECTION DETAIL
N.T.S.



DETAIL "P"
RAFTER TIE DETAIL
SIMPSON STRONG-TIE H7Z
N.T.S.

REVISIONS
6-2-25: ISSUED TO BUILDING DEPARTMENT



631-888-7318
CHECKED

24 MIDWAY STREET
BABYLON, NEW YORK
1257 UDALL RD.
BAY SHORE, NEW YORK

PROPOSED NEW DWELLING
MIDWAY STREET RESIDENCE
ARCHITECT
TEHN DESIGN GROUP LLC
DATE
4-24-25
JOB NO.
24139
SCALE
1/4"=1'-0"

THE 2020 NEW YORK STATE ENERGY CONSERVATION CODE

ENERGY CODE COMPLIANCE FOR EXISTING BUILDINGS

CHAPTER 5: REVIEW OF ENERGY CODE FOR EXISTING BUILDINGS.
SEC. C501.1: SCOPE - ALTERATION COMPLIES WITH PROVISIONS OF SECTION C501.
SEC. C501.4: COMPLIANCE - COMPLIES.
SEC. C501.5: REPLACEMENT MATERIALS - MATERIALS PERMITTED FOR NEW CONSTRUCTION TO BE USED.

SEC. C502: ADDITIONS - APPLICABLE.
SEC. C502.1: GENERAL - COMPLIES.
SEC. C502.2.1: VERTICAL FENESTRATION - COMPLIES.
SEC. C502.2.2: SKY LIGHT AREA - NOT APPLICABLE.
SEC. C502.2.3: BUILDING MECHANICAL SYSTEMS - COMPLIES WITH SEC. C403.
SEC. C502.2.4: SERVICE WATER-HEATING SYSTEMS - COMPLIES WITH SEC. C404.
SEC. C502.2.6: LIGHTING POWER AND SYSTEMS - COMPLIES WITH SEC. C405.
SEC. C502.2.6.1: INTERIOR LIGHTING POWER - COMPLIES WITH SEC. C405.4.2.
SEC. C502.2.6.2: EXTERIOR LIGHTING POWER - COMPLIES WITH SEC. C405.5.1.

SEC. C503: ALTERATIONS - APPLICABLE.
SEC. C503.1: GENERAL - NEW CONSTRUCTION COMPLIES.
SEC. C503.2: CHANGE IN SPACE CONDITIONING - NOT APPLICABLE.
SEC. C503.3: BUILDING ENVELOPE - COMPLIES WITH SECTIONS C402.1 THROUGH C402.5.
SEC. C503.3.1: ROOF REPLACEMENTS - COMPLIES.
SEC. C503.3.2: VERTICAL FENESTRATION - COMPLIES.
SEC. C503.3.3: SKY LIGHT AREA - NOT APPLICABLE.
SEC. C503.4: HEATING AND COOLING SYSTEMS - COMPLIES.
SEC. C503.4.1: ECONOMIZERS - NOT APPLICABLE.
SEC. C503.5: SERVICE HOT WATER SYSTEMS - COMPLIES.
SEC. C503.6: LIGHTING SYSTEMS - COMPLIES.

MANDATORY REQUIREMENTS

SEC. R401.3: CERTIFICATE - SEE CERTIFICATE ATTACHED TO BE POSTED AS PER CODE.
SEC. R402.4: AIR LEAKAGE - COMPLIES.
SEC. R402.5: MAXIMUM FENESTRATION U-FACTOR AND SHGC - COMPLIES.
SEC. R403.3: DUCT TESTING - N/A.
SEC. R403.3.5: BUILDING CAVITIES AS DUCTS AND PLENUMS - NO BUILDING FRAMING CAVITIES TO BE USED AS DUCTS OR PLENUMS.

SEC. R403.4: MECHANICAL SYSTEM PIPING INSULATION - R :3 MINIMUM INSULATION AROUND PIPING.
SEC. R403.5.1: HEATED WATER CIRCULATION & TEMPERATURE MAINTENANCE SYSTEMS - COMPLIES.
SEC. R403.5.2: HEAT PUMP SUPPLEMENTARY HEAT - COMPLIES.
SEC. R403.5.3: DUCT SEALING - N/A.
SEC. R403.5.4: DUCT TESTING - N/A.
SEC. R403.5.5: BUILDING CAVITIES AS DUCTS AND PLENUMS - NO BUILDING FRAMING CAVITIES TO BE USED AS DUCTS OR PLENUMS.

SEC. R403.6: MECHANICAL VENTILATION - COMPLIES.
SEC. R403.7: EQUIPMENT SIZING & EFFICIENCY RATING - NEW EQUIPMENT SHALL HAVE AN EFFICIENCY RATING EQUAL OR GREATER THAN THE MINIMUM REQUIRED BY FEDERAL LAW FOR THIS LOCATION.

SEC. R403.8: SYSTEMS SERVING MULTIPLE DWELLING UNITS - N/A.
SEC. R403.9: SNOW MELT AND ICE SYSTEM CONTROLS - NO SNOW MELT AND ICE SYSTEMS PROVIDED.
SEC. R403.10: POOLS & INGROUND PERMANENT SPA ENERGY

CONSUMPTION - NOT APPLICABLE.
SEC. R403.11: PORTABLE SPAS - NO PORTABLE SPAS.
SEC. R404.1: LIGHTING EQUIPMENT - MINIMUM 75% OF LIGHTING TO BE HIGH EFFICACY LAMPS.
SEC. R404.1.1: FUEL GAS LIGHTING SHALL NOT HAVE CONTINUOUSLY BURNING PILOT LIGHTS - NO FUEL GAS LIGHTING EQUIPMENT.

TABLE 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/soffit shall be aligned with the insulation and any gaps in the air barrier shall be 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 R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.	
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.
Floors (including above garage and cantilevered floors)	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 outdoor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.
Crawl space walls	Exposed earth in an unvented crawl space shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.

TABLE R402.1.2 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a

CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b,c}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWLSPACE ^e WALL R-VALUE
4	0.32	0.55	0.40	49	20 OR 13 + 5 ^h	8/13	19	10/13	10.2 FT	10/13
5	0.30	0.55	NR	49	20 OR 13 + 5 ^h	13/17	30 ^d	15/19	10.2 FT	15/19
6 OPTION 1	0.30	0.55	NR	49	20 + 5 ^h OR 13 + 10 ^h	15/20	30 ^d	15/19	10.4 FT	15/19
6 OPTION 2	0.28	0.55	NR	60	23 CAVITY	19/21	30 ^d	15/19	10.4 FT	15/19

NR = Not Required.

For SI: 1 foot = 304.8 mm.

- 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 AT THE INTERIOR OF THE BASEMENT WALL. ALTERNATIVELY, COMPLIANCE WITH "15/19" SHALL BE R-13 CAVITY INSULATION ON THE INTERIOR OF THE BASEMENT WALL PLUS R-5 CONTINUOUS 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 AND 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 R402.2.5. THE SECOND R-VALUE APPLIES WHERE MORE THAN HALF OF THE INSULATION IS ON THE INTERIOR OF THE MASS WALL.

TABLE R402.1.4 EQUIVALENT U-FACTORS^a

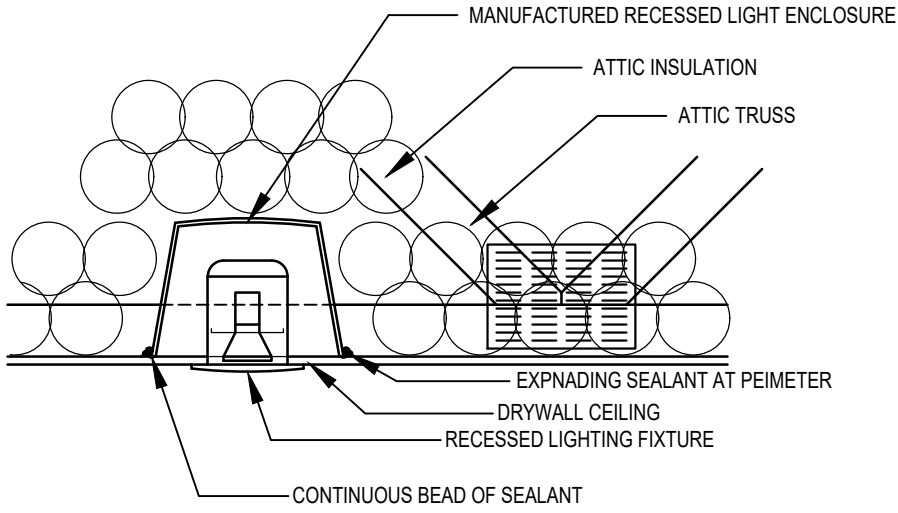
CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS WALL U-FACTOR	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWLSPACE WALL U-FACTOR
4	0.32	0.55	0.026	0.060	0.098	0.047	0.059	0.065
5	0.30	0.55	0.026	0.060	0.082	0.033	0.050	0.055
6	0.30	0.55	0.026	0.045	0.060	0.033	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 R402.2.5. WHERE MORE THAN HALF THE INSULATION IS ON THE INTERIOR, THE MASS WALL U-FACTORS SHALL NOT EXCEED 0.067 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 R301.1 AND TABLE R301.1, THE BASEMENT WALL U-FACTOR SHALL NOT EXCEED 0.360.



AIR SEALED WALL

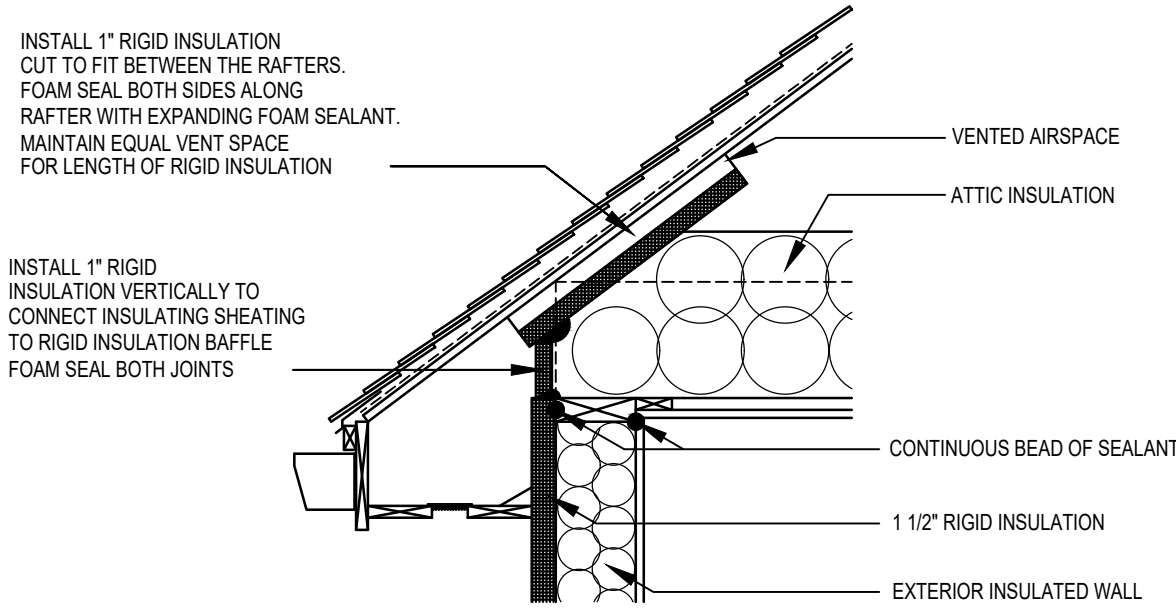
N.T.S.



DETAIL

AIR SEALING AT RECESSED LIGHTING IN ATTIC

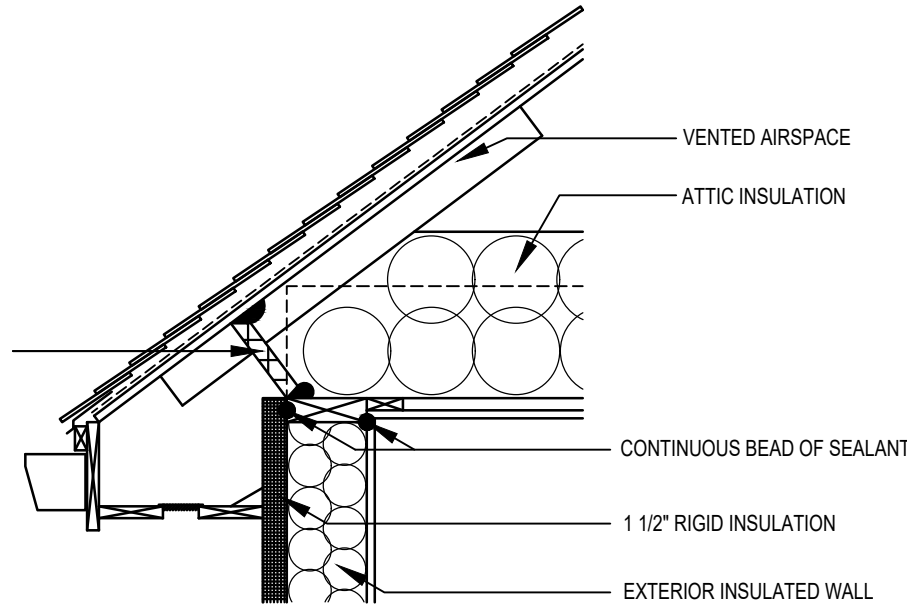
N.T.S.



DETAIL

1" EXT. INSULATION SHEATHING AS ATTIC EAVE BAFFLE AND VENT

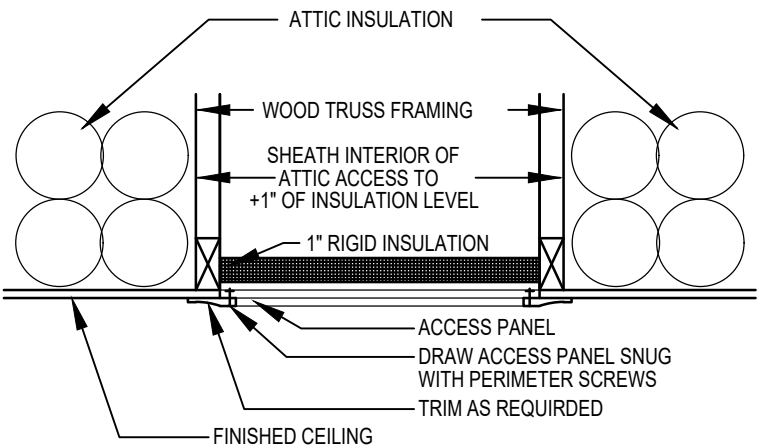
N.T.S.



DETAIL

1" RIGID INSULATION AS ATTIC EAVE BAFFLE CUT AROUND MANUFACTURED VENT

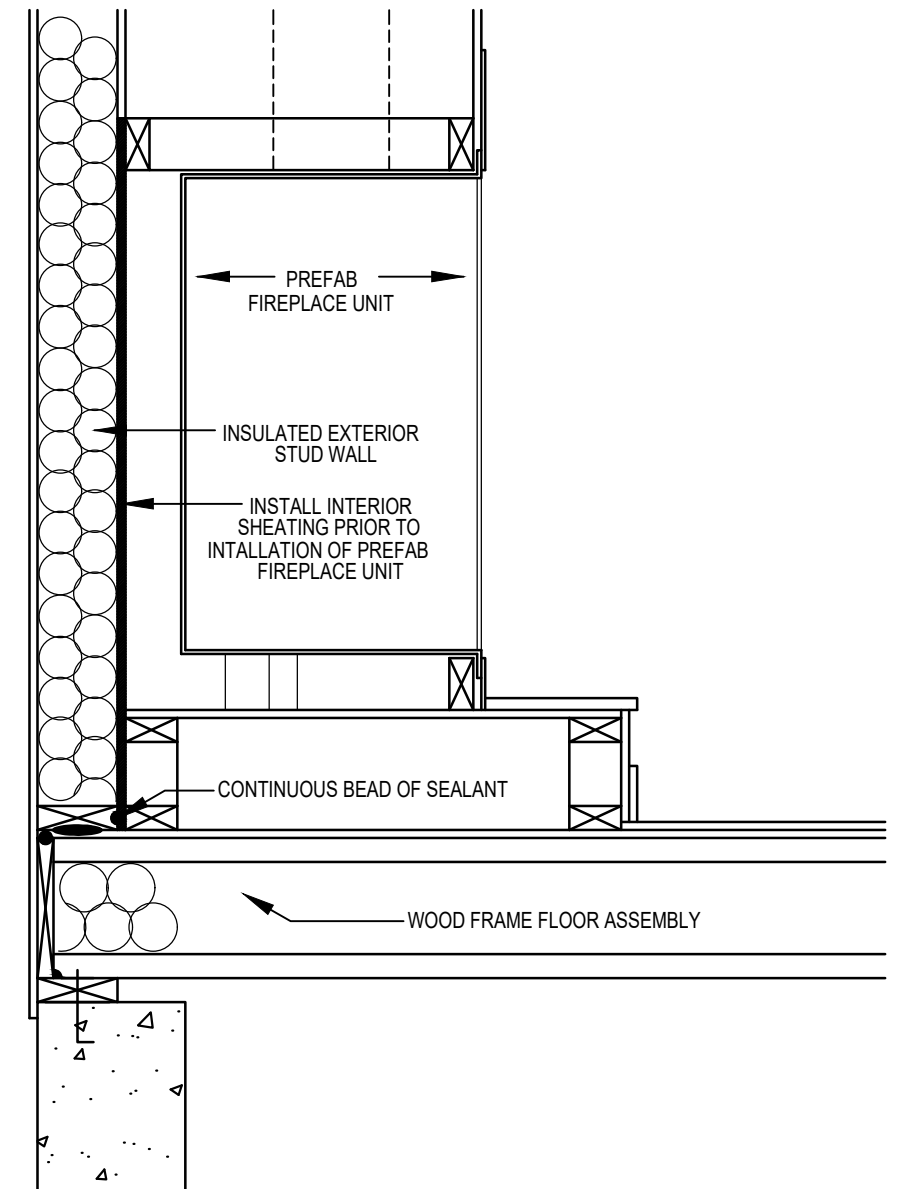
N.T.S.



DETAIL

AIR SEALING AT ATTIC HATCH // FINISH SCREWS

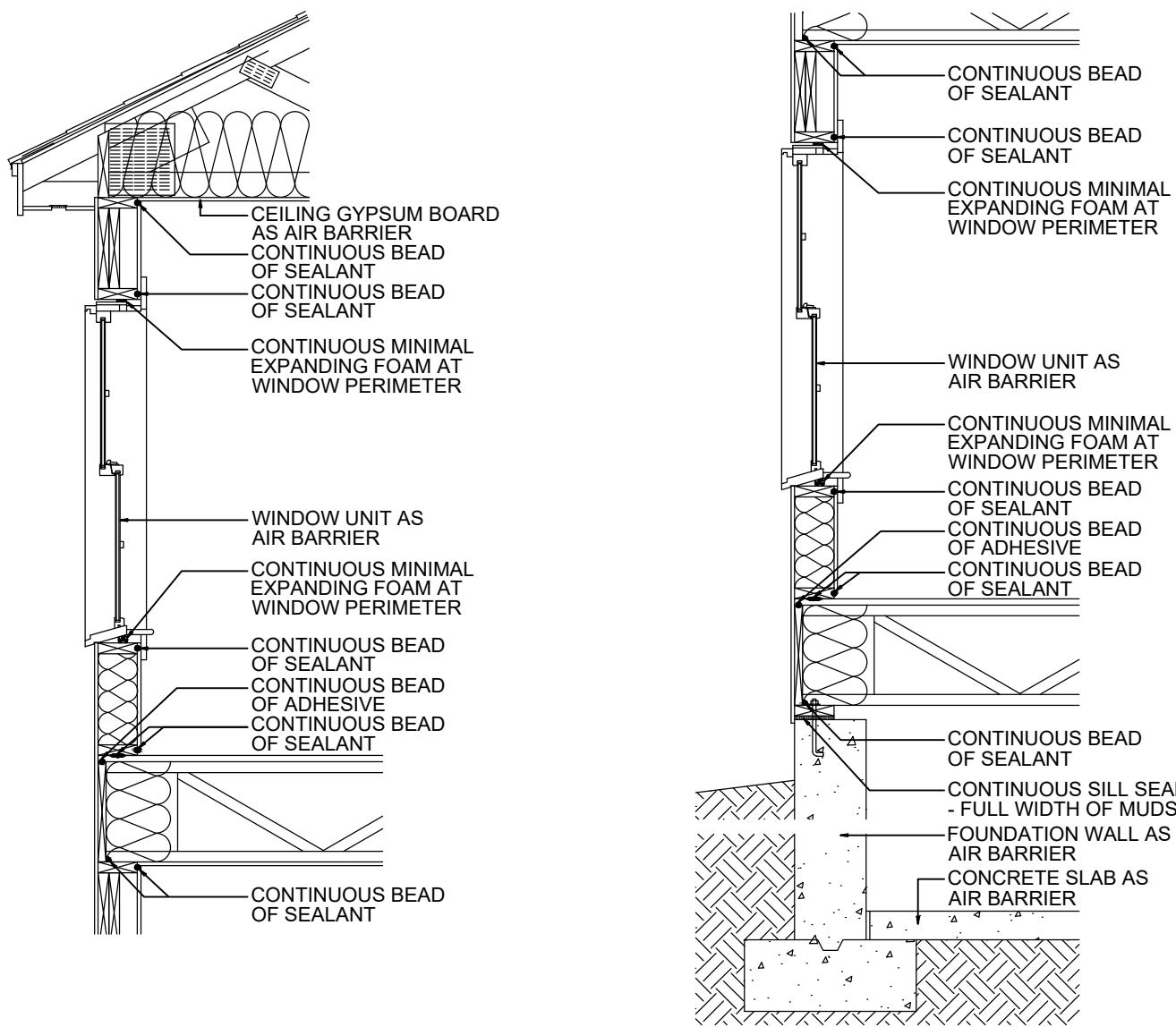
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DETAIL

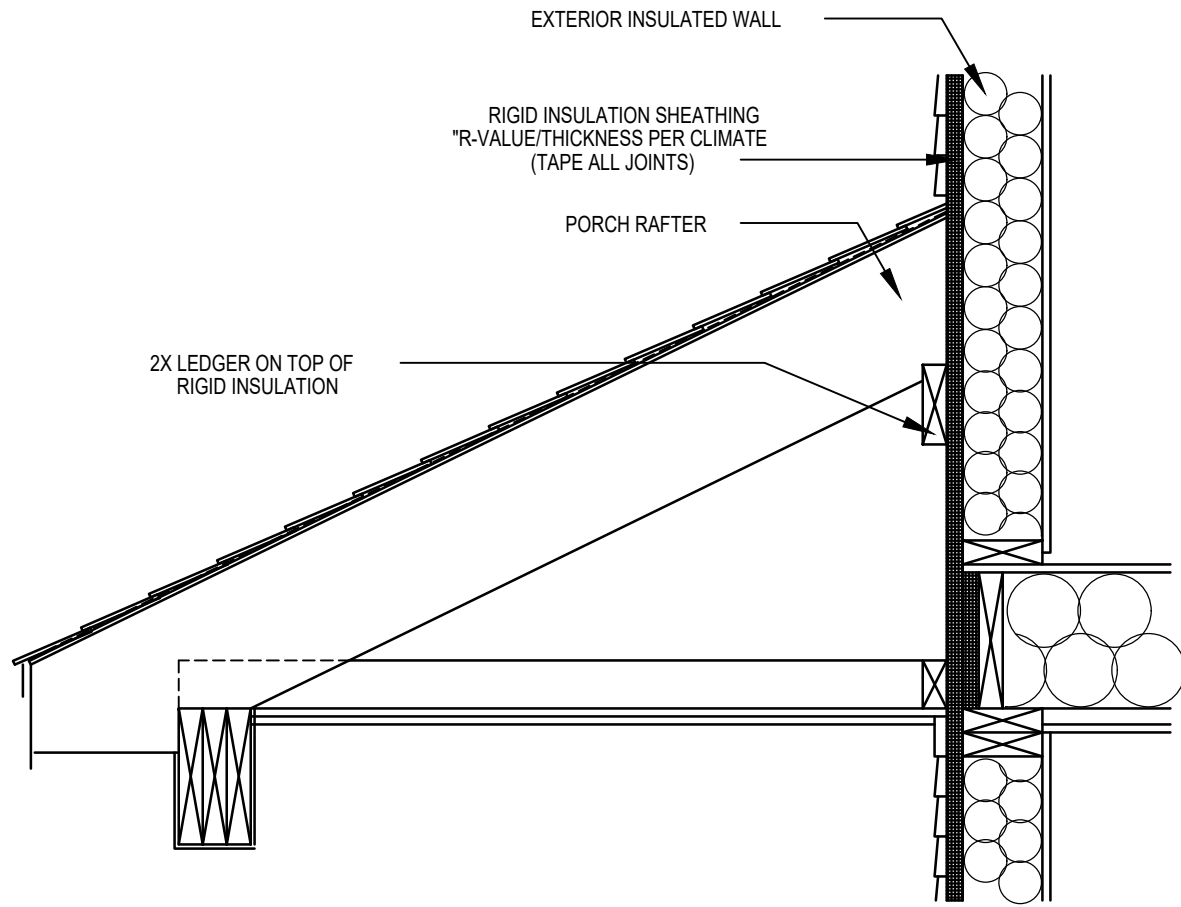
AIR SEALING AT PLATFORM FOR MANUFACTURED FIREPLACE ASSEMBLY

N.T.S.



AIR SEALING DETAIL

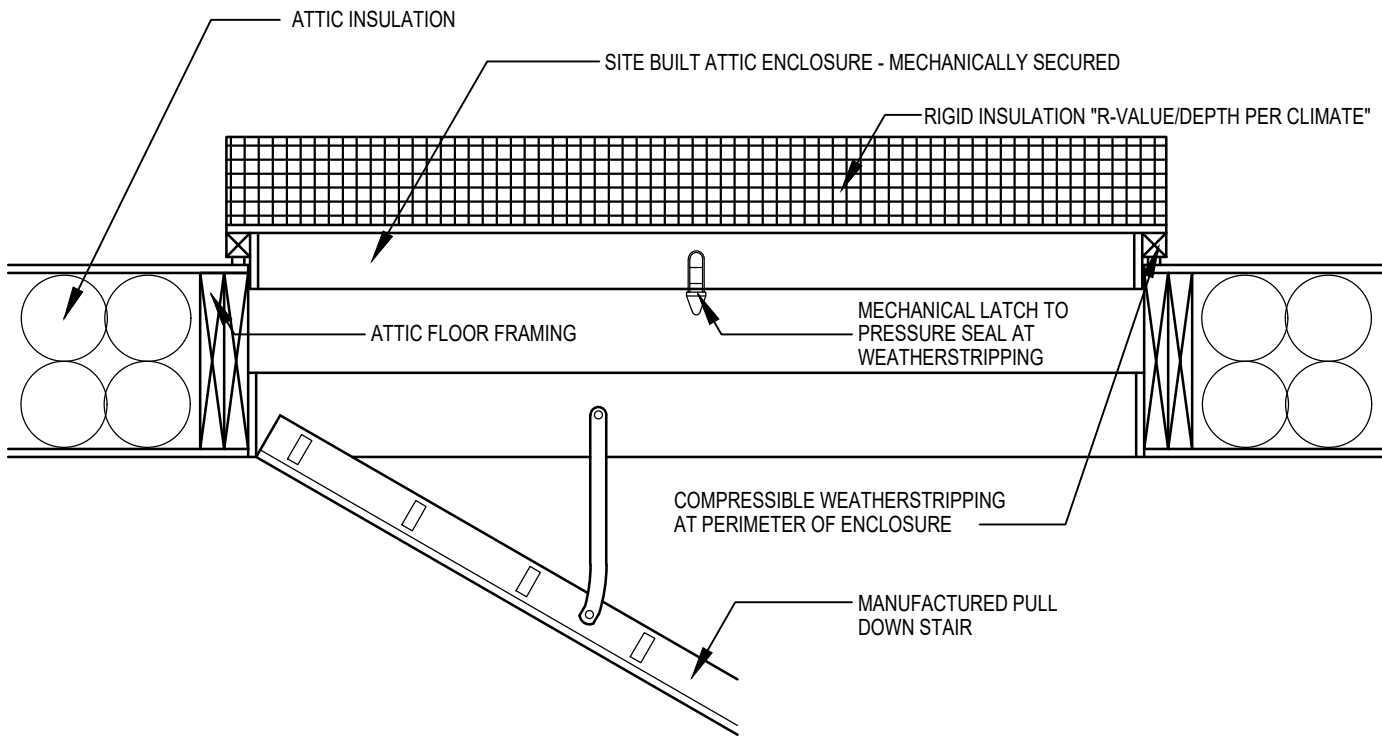
N.T.S.



DETAIL

AIR SEALING AT PORCH ROOF AT 1" RIGID INSULATION SHEATHING

N.T.S.



DETAIL

AIR SEALING AT ATTIC PULL DOWN ATTIC STAIR

N.T.S.

REVISIONS

6-2-25: ISSUED TO BUILDING DEPARTMENT

SEAL

REGISTERED ARCHITECT
EMMANUEL K. TCHEN, E.C.D.
STATE OF NEW YORK
12345

PROJECT
PROPOSED NEW DWELLING

CLIENT
MIDWAY STREET RESIDENCE

ARCHITECT
TEHN DESIGN GROUP LLC

DATE
4-24-25

24 MIDWAY STREET
BABYLON, NEW YORK

1257 UDALL RD.
BAY SHORE, NEW YORK

631-888-7318

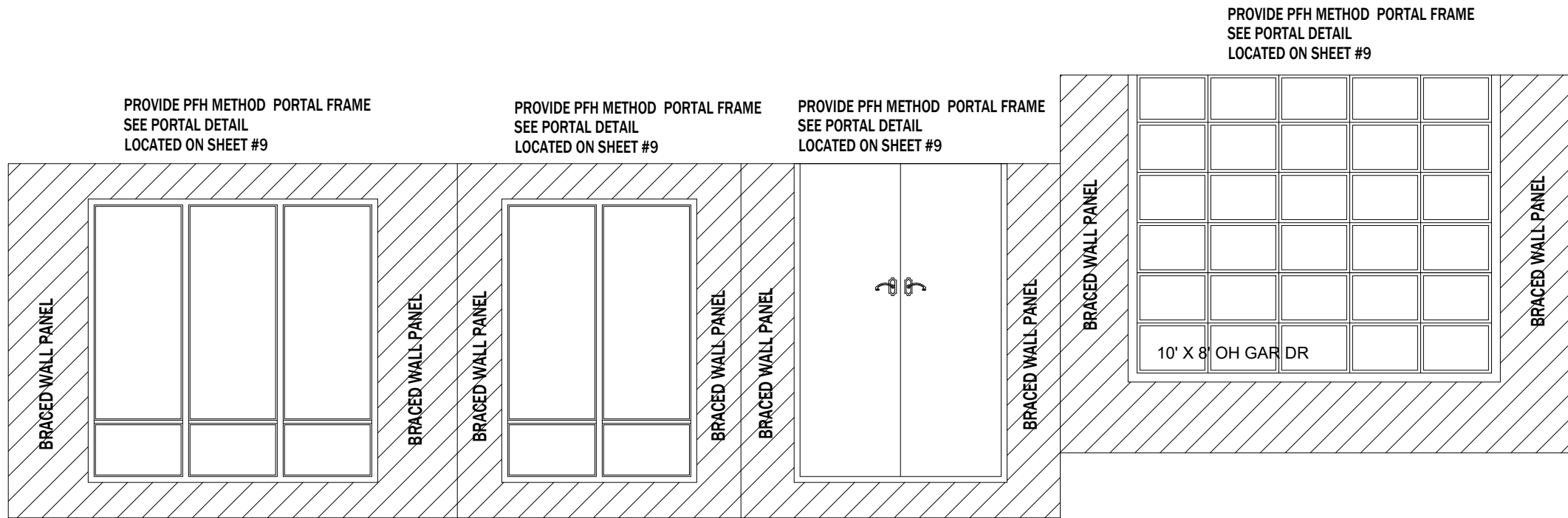
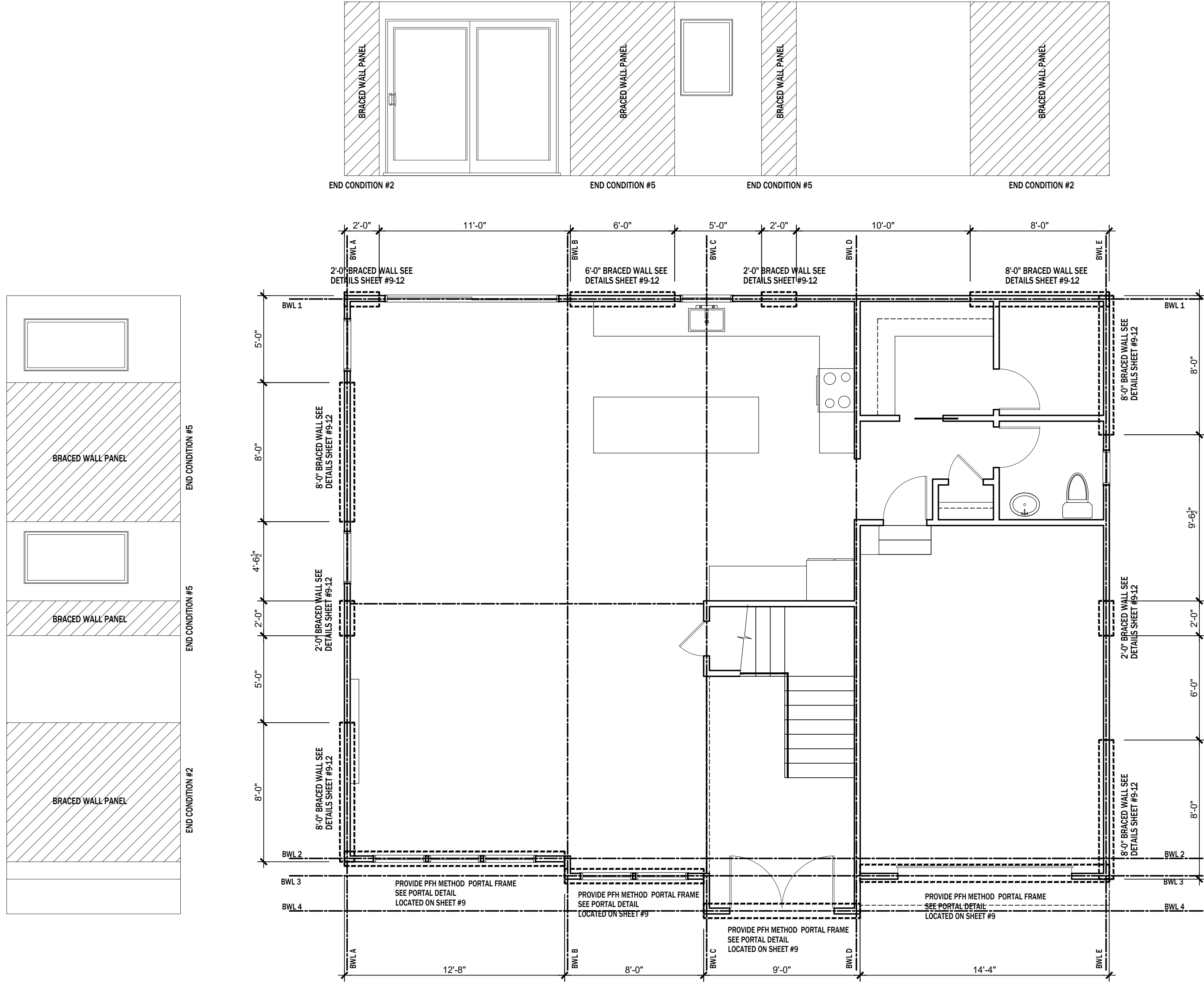
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JOB NO.
24139

SCALE
1/4"=1'-0"

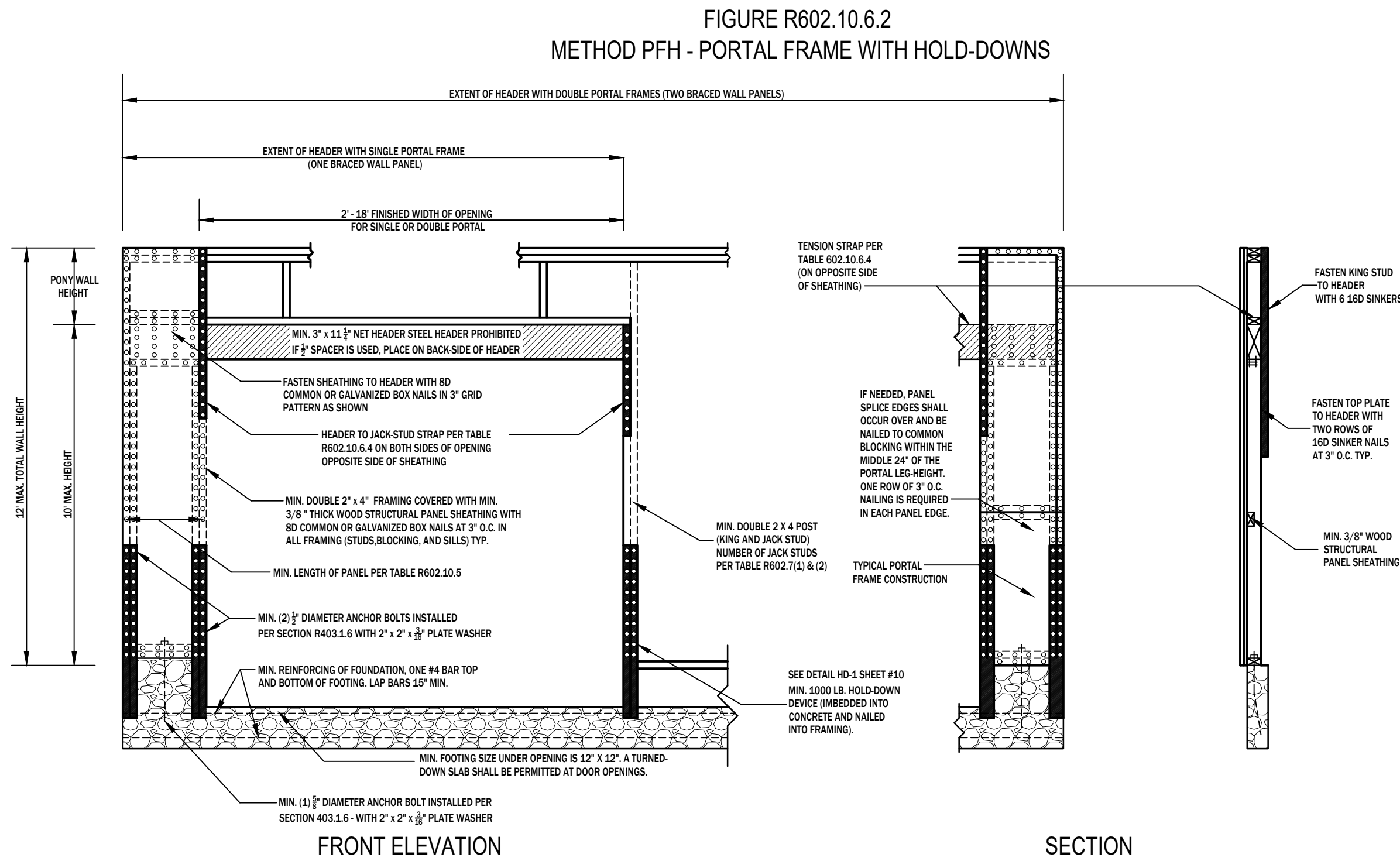
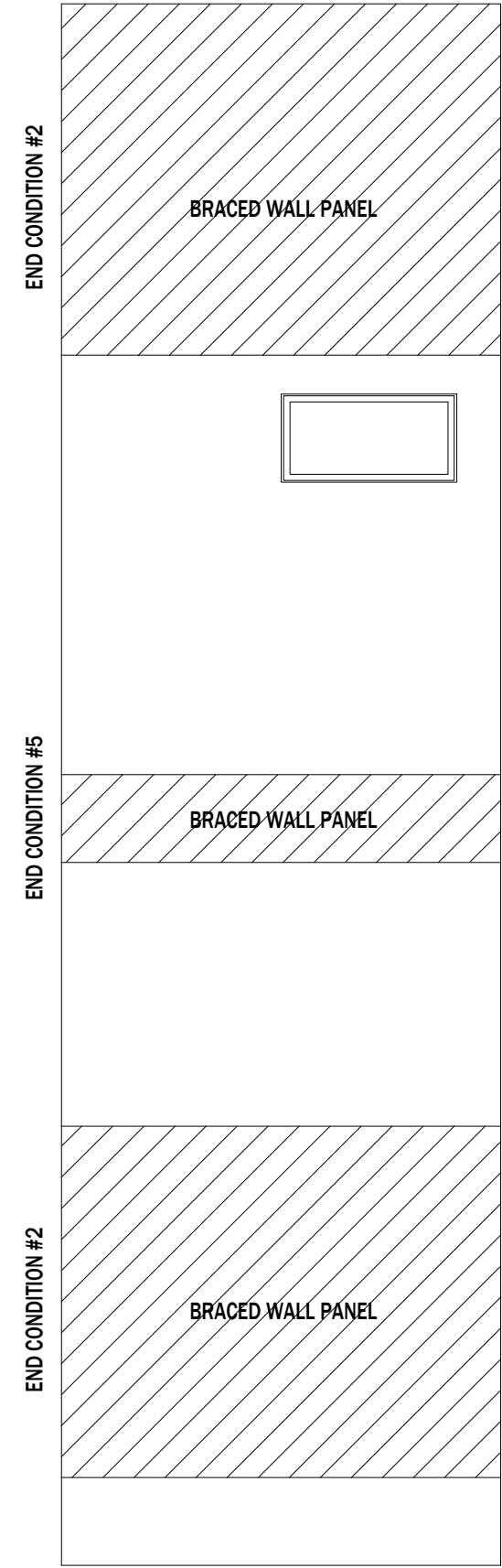
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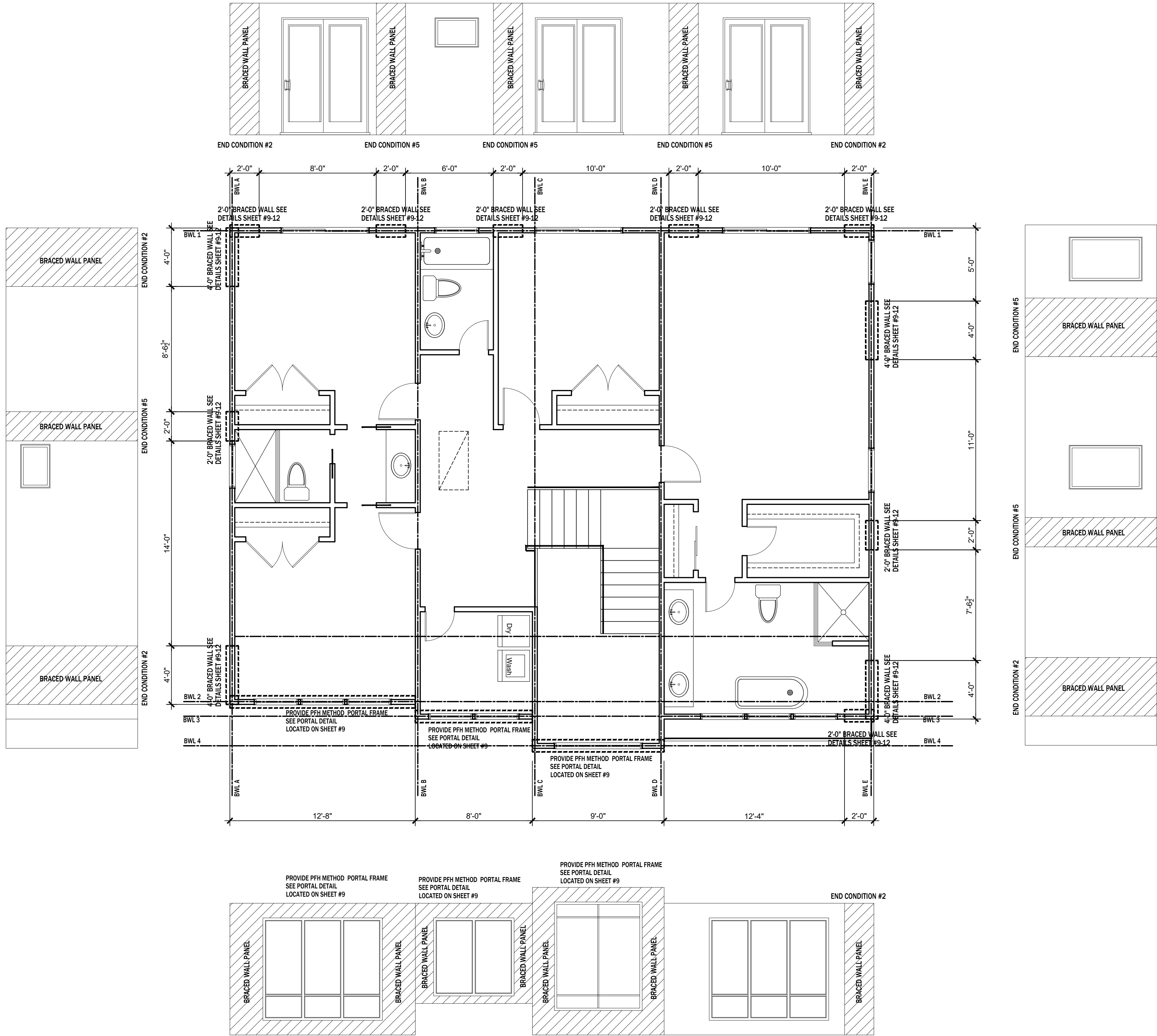
15



FIRST FLOOR WALL BRACING PLAN
BRACING METHOD : CS-WSP (SEE SHEETS #9 -12)
1/4"= 1'-0"

1ST FLOOR
BRACED WALL LENGTH = 18.0
ADJUSTMENT FACTOR = 1.0
ADJUSTED BRACED WALL LENGTH = 18.0
MINIMUM BRACED WALL LENGTH = 24"
AS PER TABLE R602.10.5





SECOND FLOOR WALL BRACING PLAN

BRACING METHOD : CS-WSP (SEE SHEETS #9-12)

1/4"= 1'-0"

1ST FLOOR

BRACED WALL LENGTH = 9.5

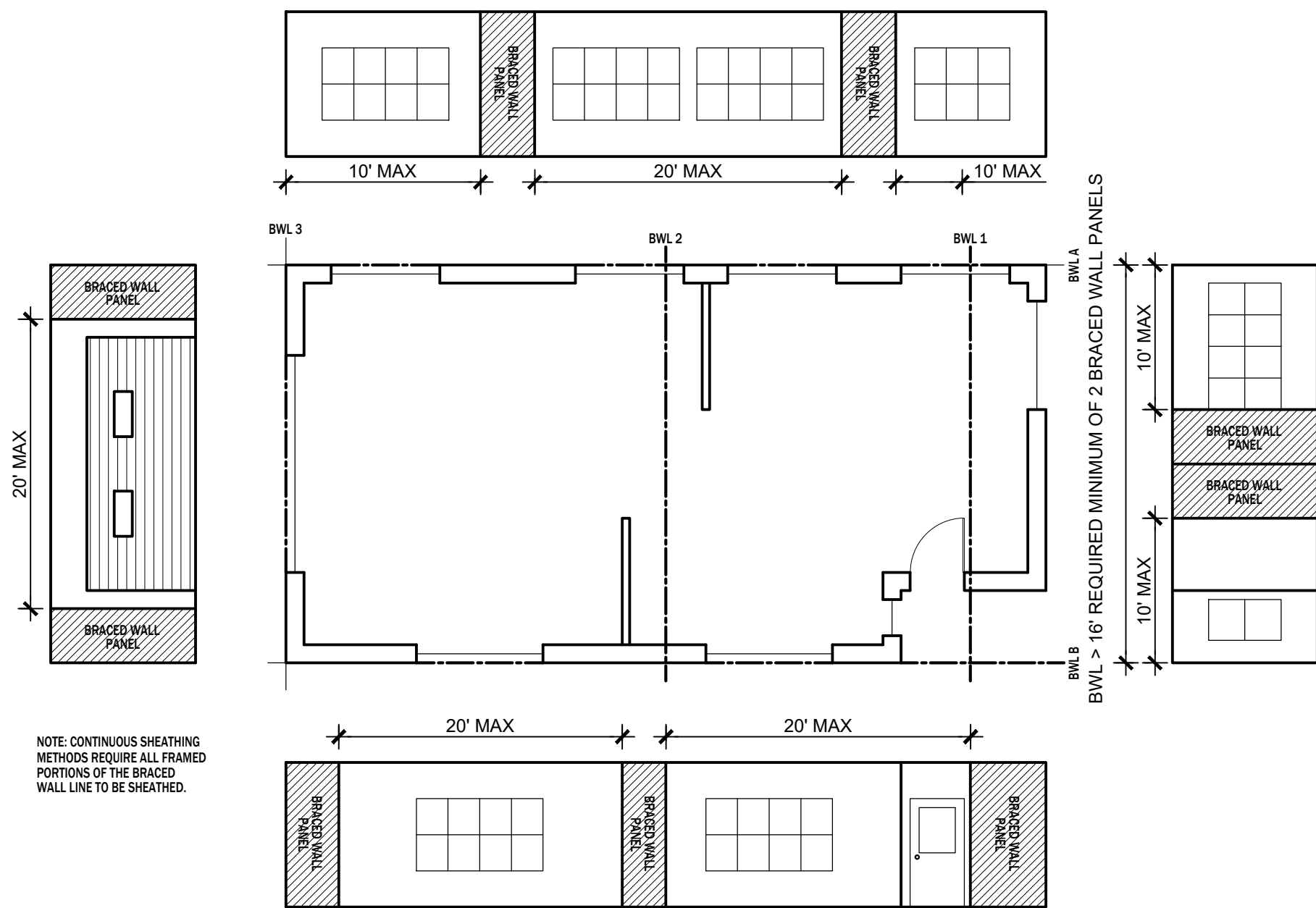
ADJUSTMENT FACTOR = 1.0

ADJUSTED BRACED WALL LENGTH = 9.5

MINIMUM BRACED WALL LENGTH = 24"

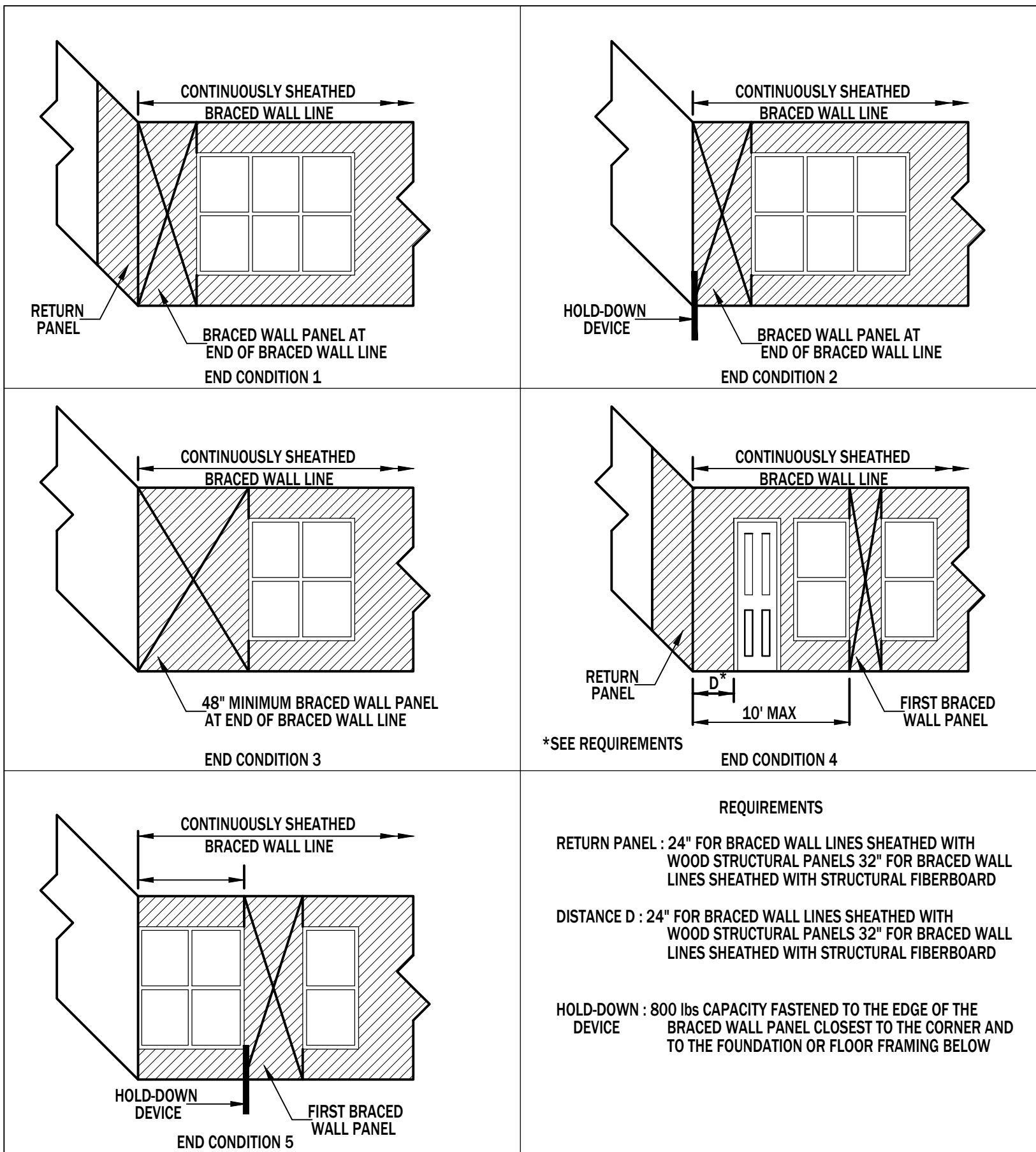
AS PER TABLE R602.10.5

FIGURE R602.10.2.2
LOCATION OF BRACED WALL PANELS
FOR SI: 1 FOOT = 304.8 MM



NOTE: CONTINUOUS SHEATHING METHODS REQUIRE ALL FRAMED PORTIONS OF THE BRACED WALL LINE TO BE SHEATHED.

FIGURE R602.10.7
END CONDITIONS FOR BRACED WALL LINES WITH CONTINUOUS SHEATHING

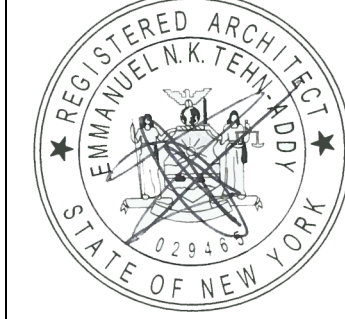


FOR SI : 1 INCH = 25.4MM, 1 FOOT = 304.8 MM, 1 POUND = 4.48 N

REVISIONS

6-2-25: ISSUED TO BUILDING DEPARTMENT

SEAL



PROJECT
PROPOSED NEW DWELLING

CLIENT
MIDWAY STREET RESIDENCE

ARCHITECT
TEHN DESIGN GROUP LLC

DATE
4-24-25

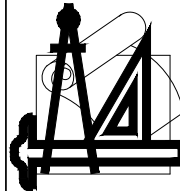
SCALE
1/4"=1'-0"

JOB NO.
24139

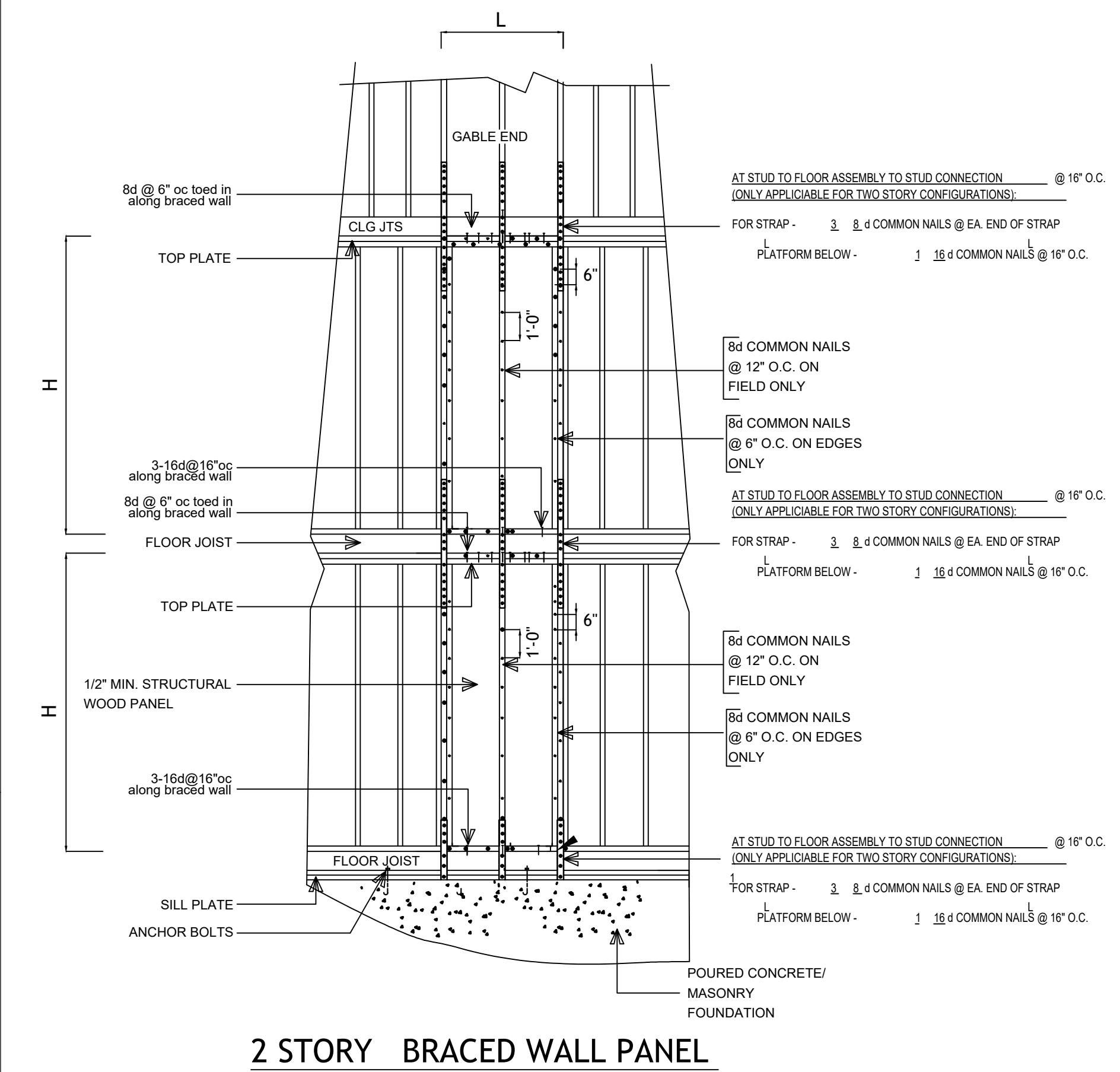
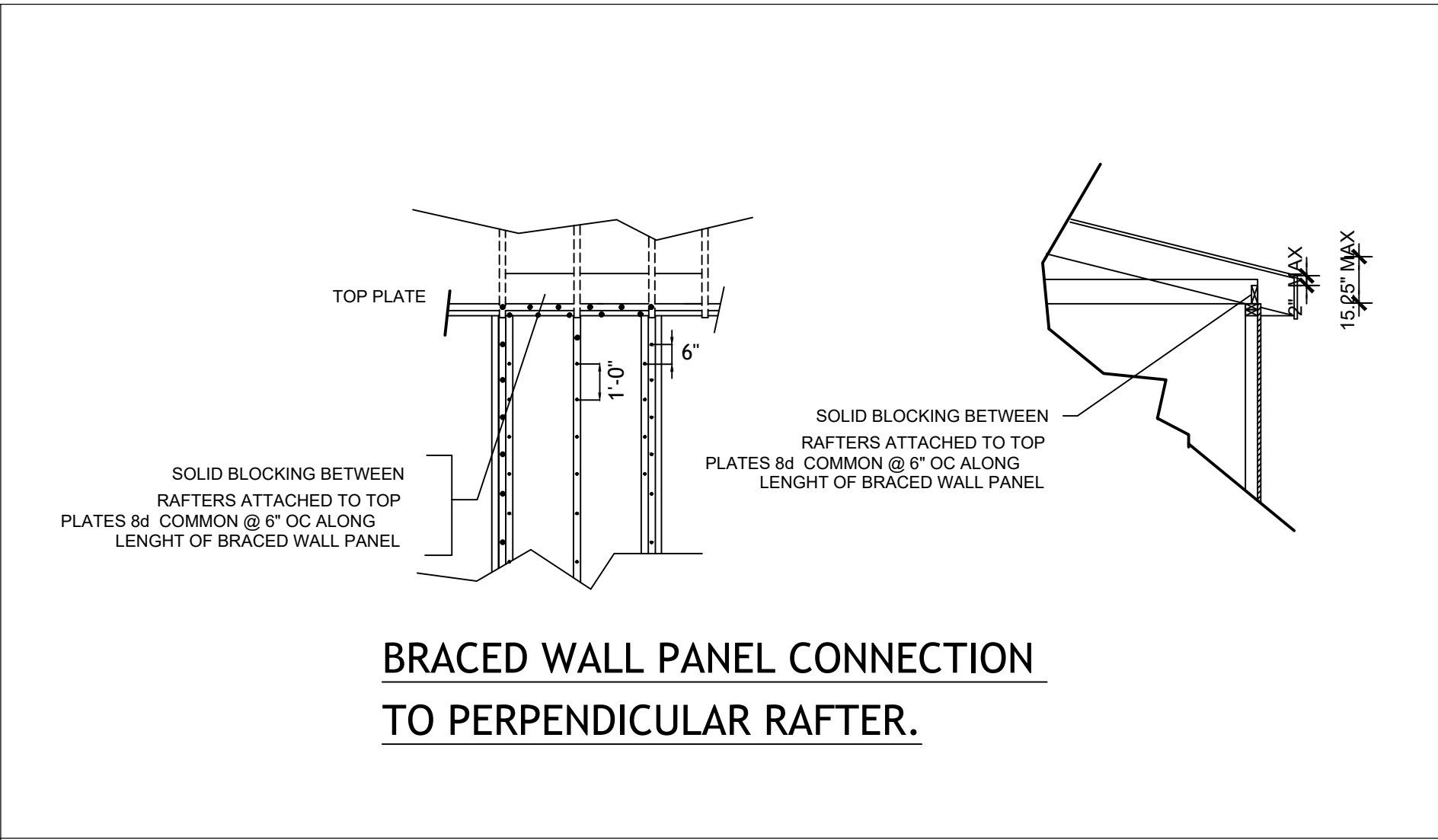
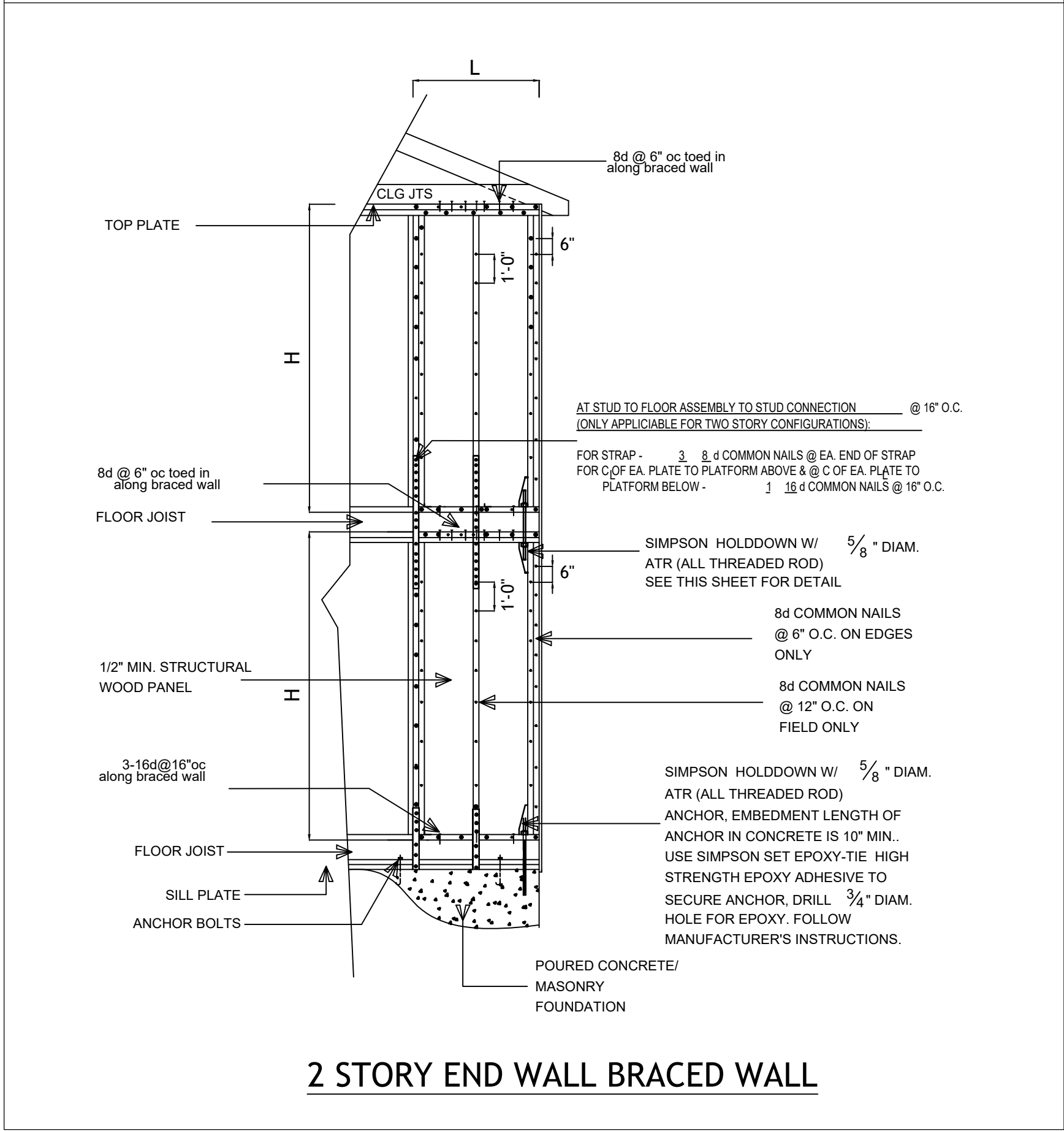
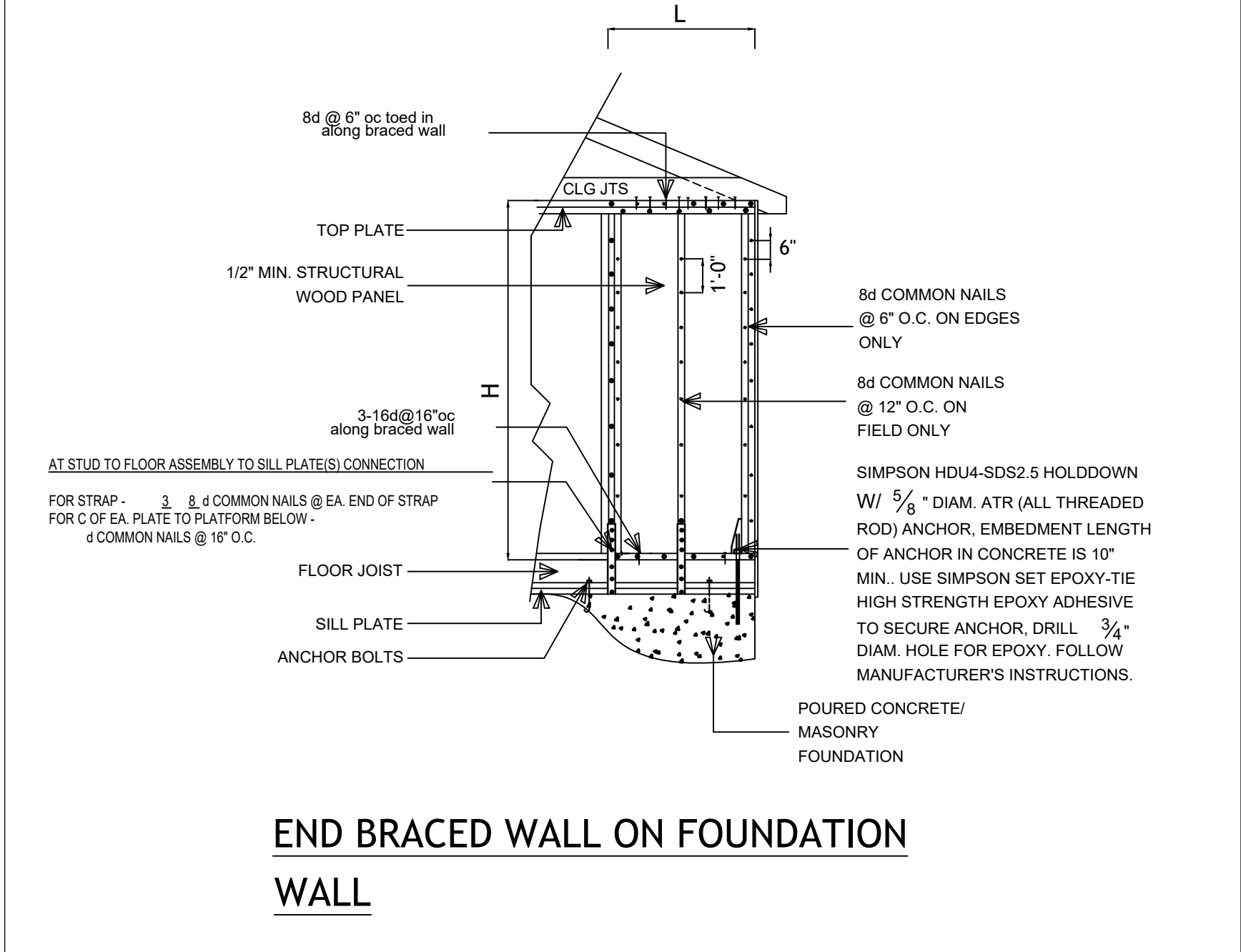
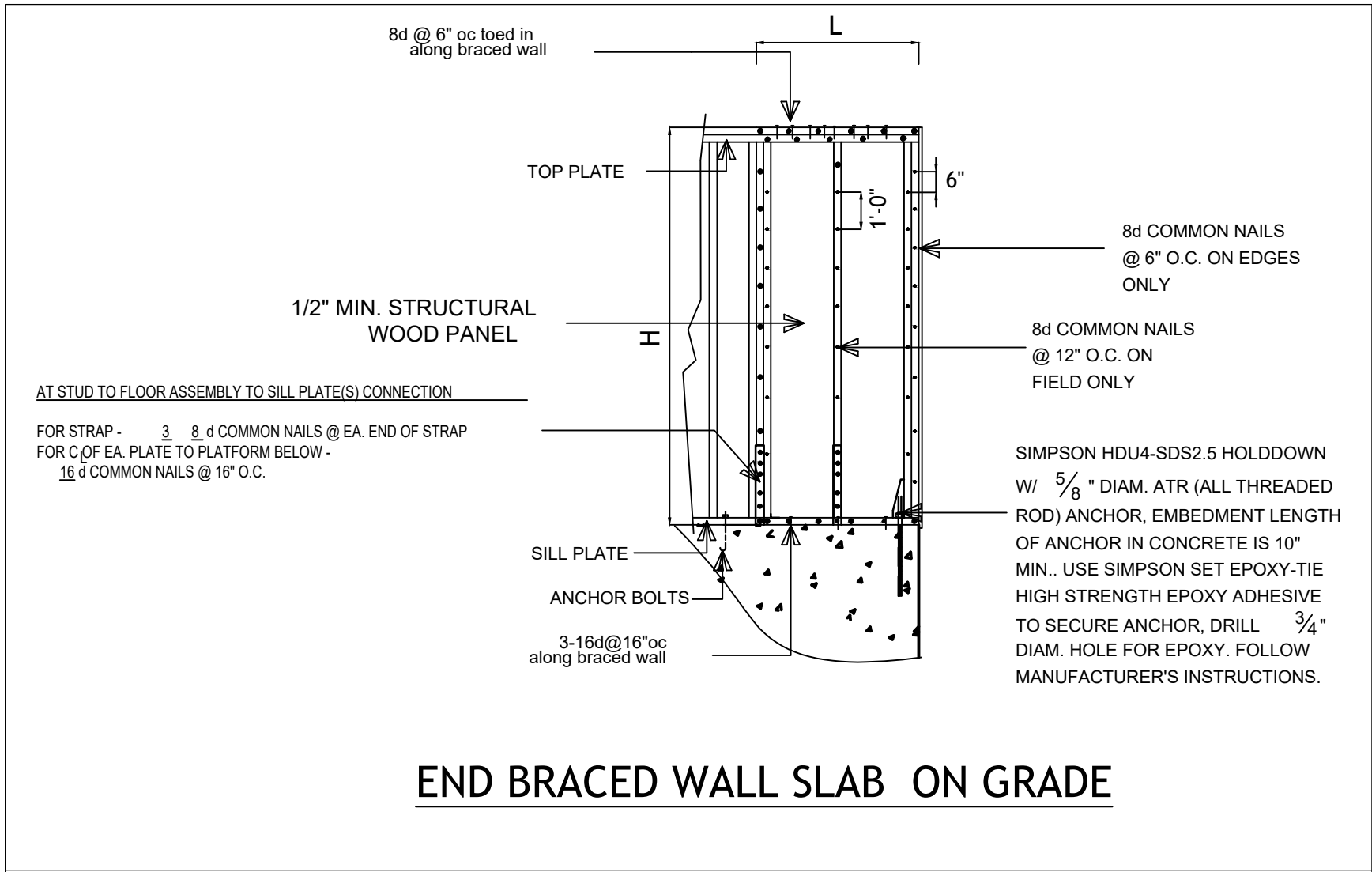
24 MIDWAY STREET
BABYLON, NEW YORK

1257 UDALL RD.
BAY SHORE, NEW YORK

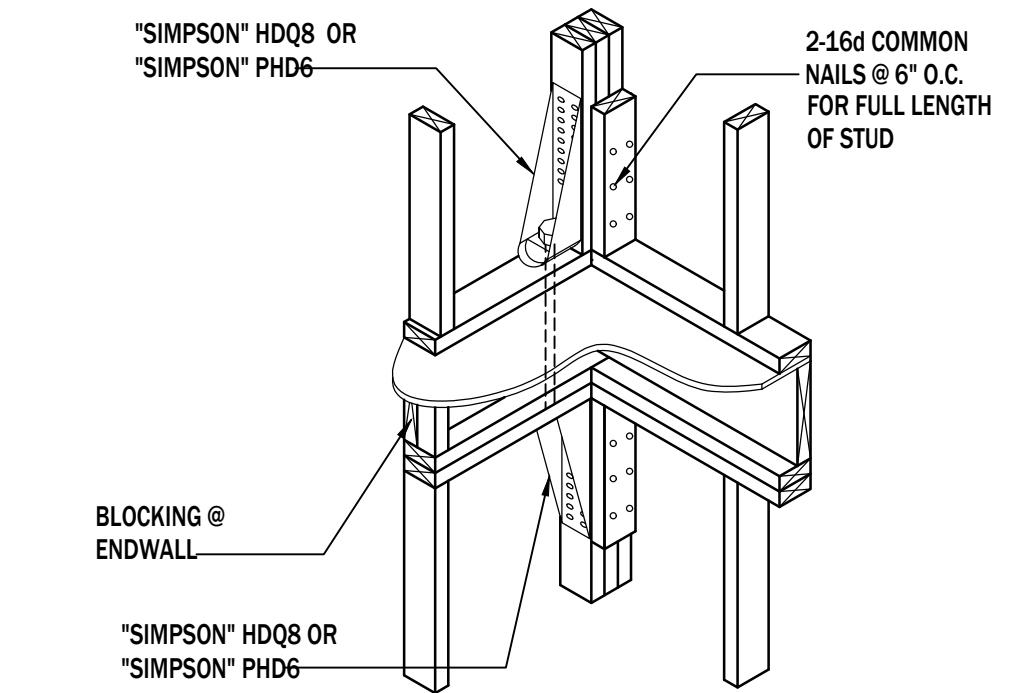
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11
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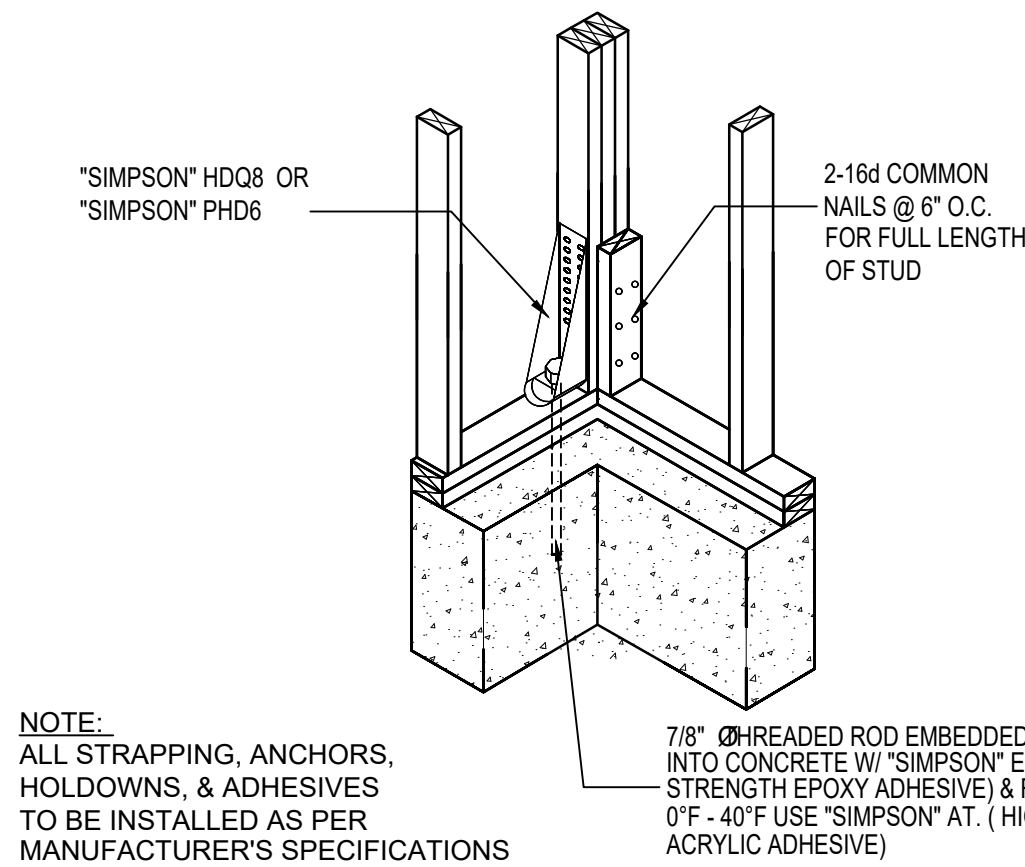
CORNER HOLD - DOWN DETAILS



NOTE:
ALL STRAPPING, ANCHORS, HOLD
DOWNS, & ADHESIVES TO BE
INSTALLED AS PER MANUFACTURER'S
SPECIFICATIONS

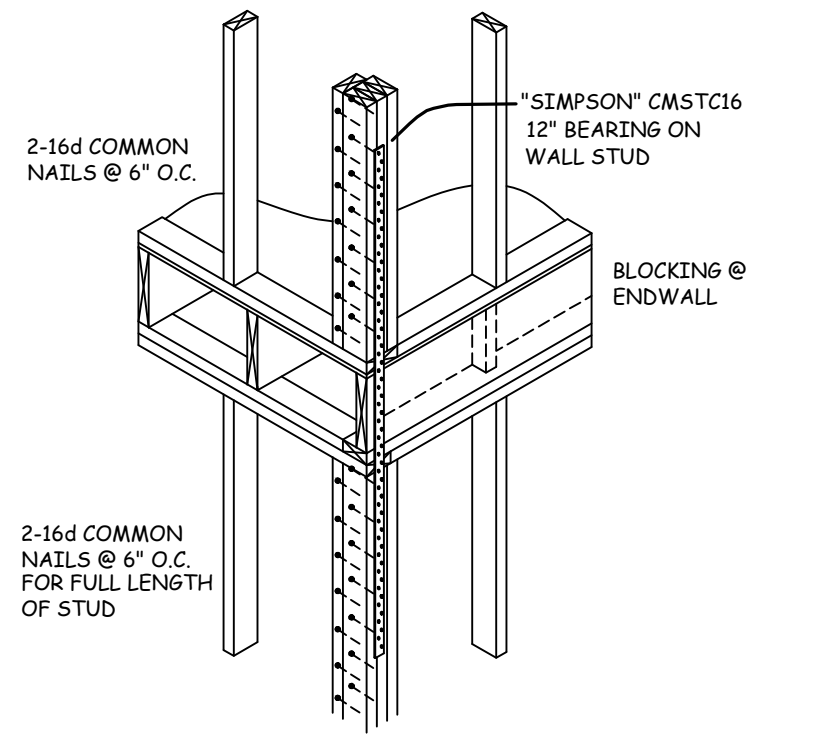
DETAIL

HOLD DOWN DETAILS N.T.S.

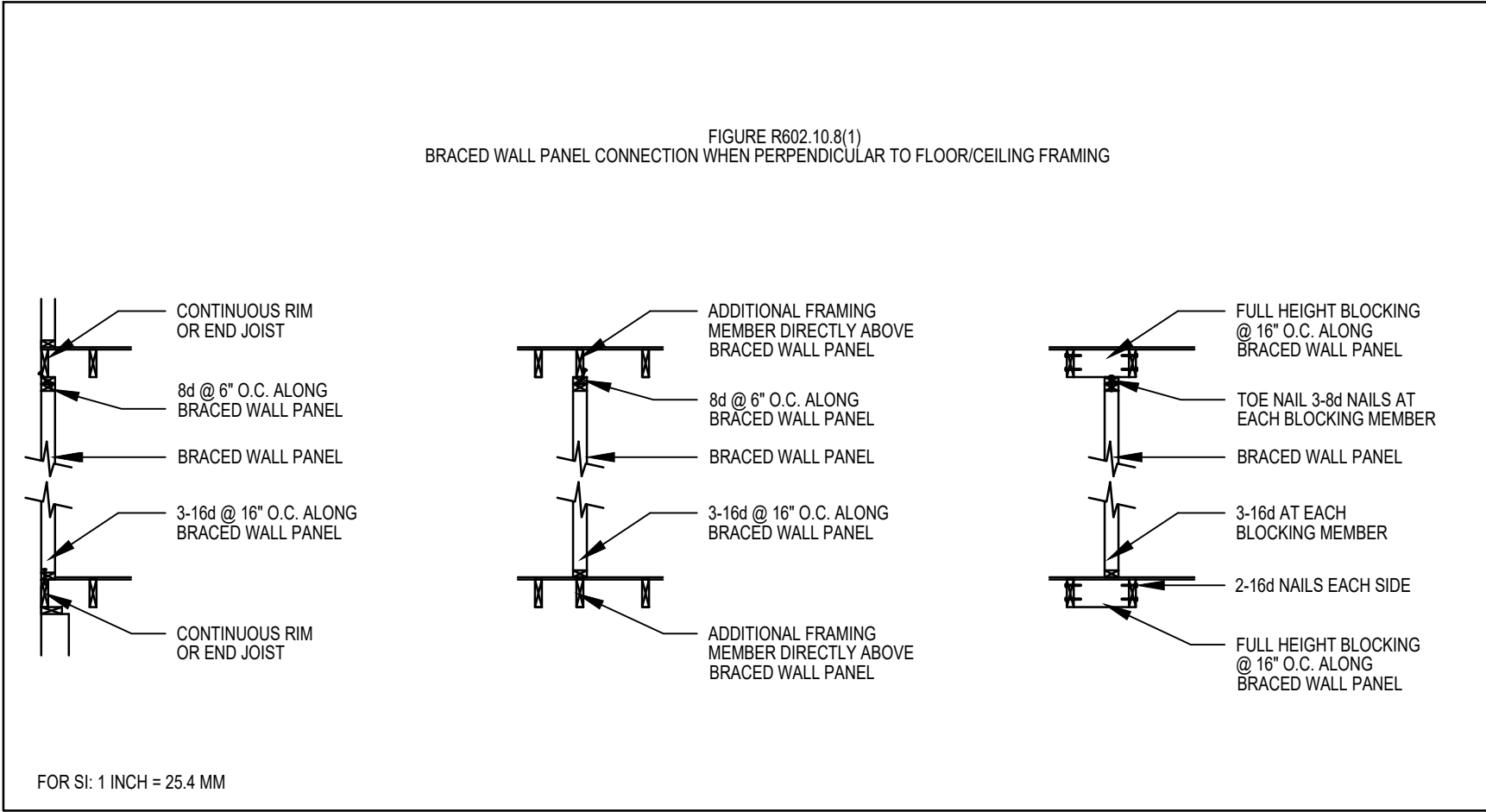


DETAIL

HOLD DOWN DETAILS N.T.S.

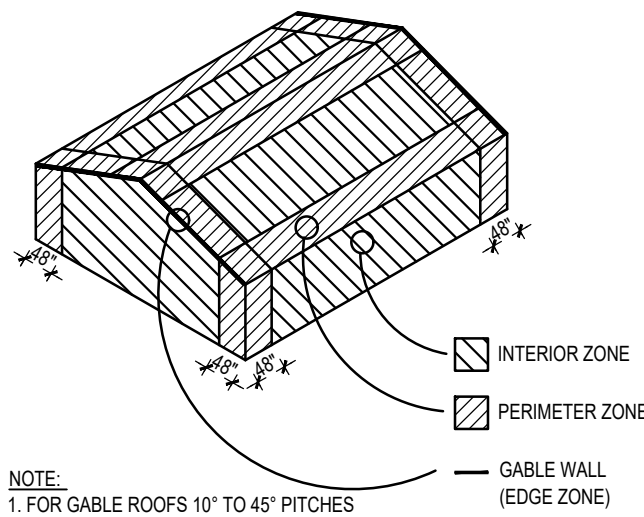


	PROJECT		PROPOSED NEW DWELLING		REVISIONS
	CLIENT	24 MIDWAY STREET BABYLON, NEW YORK			
	ARCHITECT	MIDWAY STREET RESIDENCE 1257 UDALL RD. BAY SHORE, NEW YORK			
	DATE	4-24-25	SCALE	1/4"=1'-0"	
DWG NO		13	15	6-2-25: ISSUED TO BUILDING DEPARTMENT	
SEAL					
					

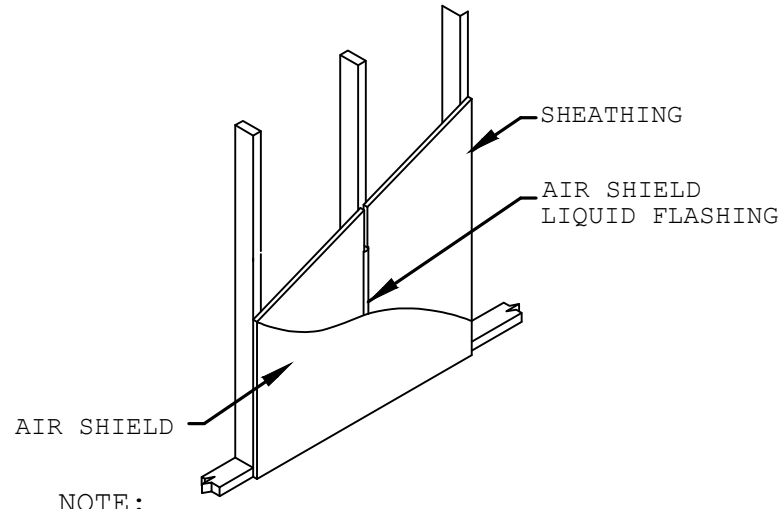
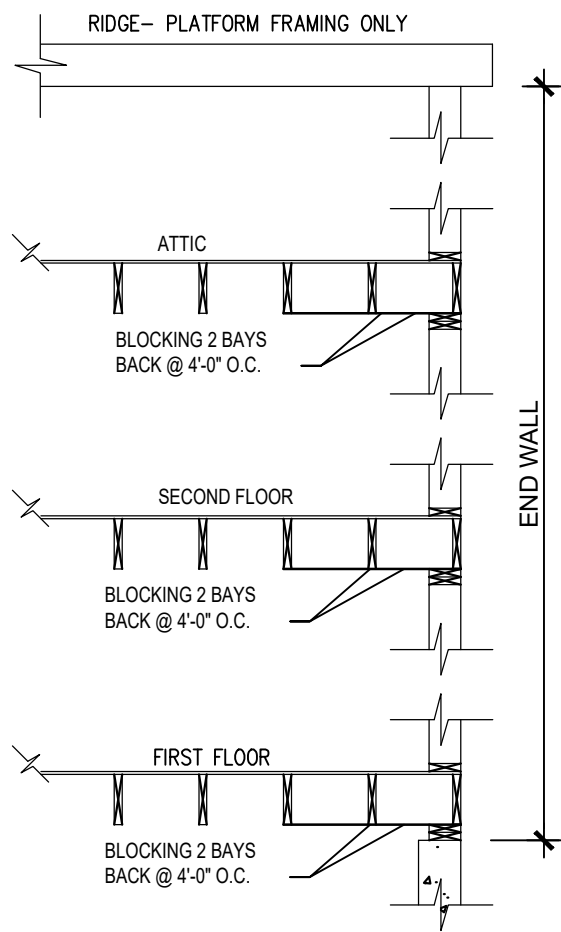


GENERAL FASTENING SCHEDULE
RESIDENTIAL CODE OF NEW YORK STATE

R3012.1.1 DESIGN CRITERIA. CONSTRUCTION IN REGIONS WHERE THE BASIC WIND SPEEDS FROM FIGURE R301.2 (4) EQUAL OR EXCEED 100 MILES PER HOUR (177.1 km/h) SHALL BE DESIGNED IN ACCORDANCE WITH ONE OF THE FOLLOWING.



BLOCKING @ ENDWALL



NOTE:
FILL JOINT WITH LIQUID FLASHING & CREATE 1" BAND OVER THE JOINT AREA. DO NOT STRIKE FLUSH WITH SHEATHING SURFACE

SHEATHING JOINT TREATMENT

TABLE R301.2.1.2
WIND-BORNE DEBRIS PROTECTION FASTENING SCHEDULE
FOR WOOD STRUCTURAL PANELS ^{a,b,c,d}

FASTENER TYPE	FASTENER SPACING (INCHES) ^{a,b}		
	PANEL SPAN ≤ 4 FEET	4 FEET < PANEL SPAN ≤ 6 FEET	6 FEET < PANEL SPAN ≤ 8 FEET
No. 8 WOOD SCREW BASED ANCHOR WITH 2-INCH EMBEDMENT LENGTH	16	10	8
No. 10 WOOD SCREW BASED ANCHOR WITH 2-INCH EMBEDMENT LENGTH	16	12	9
½-INCH LAG SCREW BASED ANCHOR WITH 2-INCH EMBEDMENT LENGTH	16	16	16

A. THIS TABLE IS BASED ON 180 MPH ULTIMATE DESIGN WIND SPEEDS, VULT AND A 45 FOOT MEAN ROOF HEIGHT.
B. FASTENERS SHALL BE INSTALLED AT OPPOSING ENDS OF THE WOOD STRUCTURAL PANEL. FASTENERS SHALL BE LOCATED NOT LESS THAN 1 INCH FROM THE EDGE OF PANEL.
C. ANCHORS SHALL PENETRATE THROUGH THE EXTERIOR WALL COVERING WITH AN EMBEDMENT LENGTH OF NOT LESS THAN 2 INCHES INTO THE BUILDING FRAME. FASTENERS SHALL BE LOCATED NOT LESS THAN 2 ½ INCHES FROM THE EDGE OF CONCRETE BLOCK OR CONCRETE.
D. PANELS ATTACHED TO MASONRY OR MASONRY / STUCCO SHALL BE ATTACHED USING VIBRATION - RESISTANT ANCHORS HAVING AN ULTIMATE WITHDRAWAL CAPACITY OF NOT LESS THAN 1,500 POUNDS.

CHAPTER 3 BUILDING PLANNING
SECTION R301 DESIGN CRITERIA

WOOD STRUCTURAL PANELS WITH A MINIMUM THICKNESS OF ½" AND A MAXIMUM SPAN OF 8 FEET SHALL BE PERMITTED FOR OPENING PROTECTION IN ONE AND TWO STORY BUILDINGS. PANELS SHALL BE PRECUT TO COVER THE GLAZED OPENINGS WITH ATTACHMENT HARDWARE PROVIDED. ATTACHMENTS SHALL BE PROVIDED IN ACCORDANCE WITH TABLE R301.2.1.2 OR SHALL BE DESIGNED TO RESIST THE COMPONENTS AND CLADDING LOADS DETERMINED IN ACCORDANCE WITH THE PROVISIONS OF THE 2020 NYS UNIFORM CODE

TABLE R402.2
MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE

TYPE OR LOCATION OF CONCRETE CONSTRUCTION	MINIMUM SPECIFIED COMPRESSIVE STRENGTH ^a (f _c)		
	Weathering Potential ^b		
	Negligible	Moderate	Severe
BASEMENT WALLS, FOUNDATION AND OTHER CONCRETE NOT EXPOSED TO THE WEATHER	2,500	2,500	2,500 ^c
BASEMENT SLABS AND INTERIOR SLABS ON GRADE, EXCEPT GARAGE FLOOR SLABS	2,500	2,500	2,500 ^c
BASEMENT SLABS, FOUNDATION WALLS, EXTERIOR WALLS AND OTHER VERTICAL CONCRETE WORK EXPOSED TO THE WEATHER	2,500	3,000 ^d	3,000 ^d
PORCHES, CAR PORT SLABS AND STEPS EXPOSED TO THE WEATHER AND GARAGE FLOOR SLABS	2,500	3,000 ^{d,e,f}	3,500 ^{d,e,f}

a. Strength at 28 days psi.
b. See Table R301.2(1) for weathering potential.
c. Concrete in this location that is subject to freezing and thawing during construction shall be air-entrained concrete in accordance with footnote d.
d. Concrete shall be air-entrained. Total air content (percent by volume of concrete) shall not be less than 5 percent or more than 7 percent.
e. See Section R402.2 for maximum cementitious materials content.
f. For garage floors with a steel-troweled finish, reduction of the total air content(percent by volume of concrete) to not less than 3 percent is permitted if the specified compressive strength of the concrete is increased to not less than 4,000 psi.

TABLE R401.4.1
PRESUMPTIVE LOAD-BEARING VALUES OF FOUNDATION MATERIALS ^a

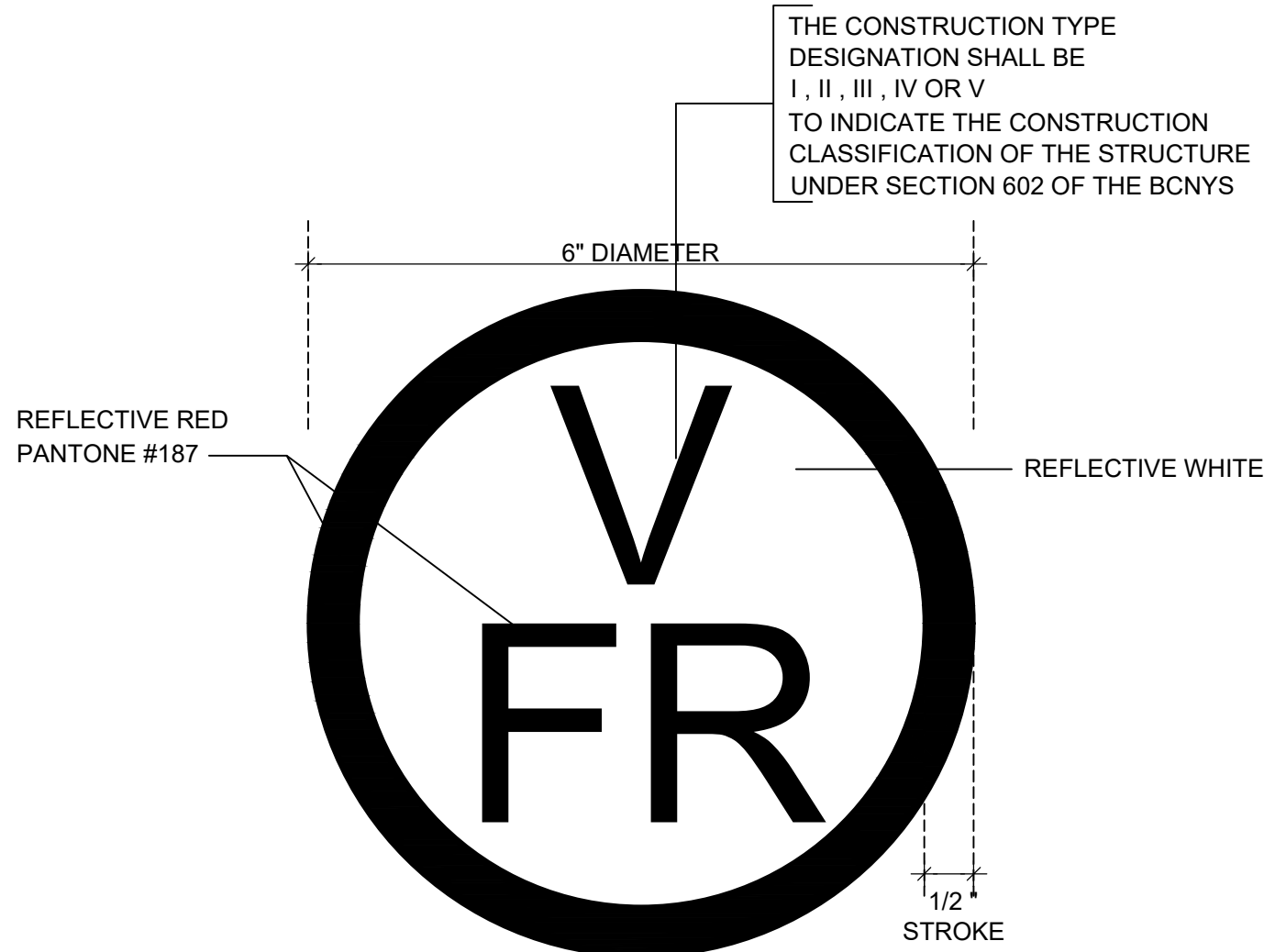
CLASS OF MATERIAL	LOAD-BEARING PRESSURE (POUNDS PER SQUARE FOOT)
CRYSTALLINE BEDROCK	12,000
SEDIMENTARY AND FOLIATED ROCK	4,000
SANDY GRAVEL AND/OR GRAVEL (GW AND GP)	3,000
SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL AND CLAYEY GRAVEL (SW, SP, SM, SC, GM, AND GC)	2,000
CLAY, SANDY, SILTY CLAY, CLAYEY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

FOR SI: 1 POUND PER SQUARE FOOT = 0.0479 kPa

a: WHERE SOIL TESTS ARE REQUIRED BY SECTION R401.4, THE ALLOWABLE BEARING CAPACITIES OF THE SOIL SHALL BE PART OF THE RECOMMENDATIONS

b: WHERE THE BUILDING OFFICIAL DETERMINES THAT 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 A SOILS INVESTIGATION.

REQUIREMENTS TO IDENTIFY THE USE OF TRUSS TYPE CONSTRUCTION
PRE-ENGINEERED WOOD CONSTRUCTION AND/OR TIMBER CONSTRUCTION



DESIGNATION FOR STRUCTURAL COMPONENTS THAT ARE OF TRUSS TYPE CONSTRUCTION

F	FLOOR FRAMING, INCLUDING GIRDERS AND BEAMS
R	ROOF FRAMING
FR	FLOOR AND ROOF FRAMING

SECTION 1265.4 SIGN OR SYMBOL

(A) EACH NEW RESIDENTIAL STRUCTURE AND EACH ADDITION TO OR REHABILITATION OF AN EXISTING RESIDENTIAL STRUCTURE THAT UTILIZES TRUSS TYPE CONSTRUCTION, PRE-ENGINEERED WOOD CONSTRUCTION AND/OR TIMBER CONSTRUCTION SHALL BE IDENTIFIED BY A SIGN OR SYMBOL IN ACCORDANCE WITH THE PROVISIONS OF THIS PART.

(B) THE SIGN OR SYMBOL REQUIRED BY THIS PART SHALL BE AFFIXED TO THE ELECTRIC BOX ATTACHED TO THE EXTERIOR OF THE RESIDENTIAL STRUCTURE, PROVIDED HOWEVER, THAT:

(1) IF AFFIXING THE SIGN OR SYMBOL THE THE ELECTRIC BOX WOULD OBSCURE ANY METER ON THE ELECTRIC BOX, OR IF THE UTILITY PROVIDING ELECTRIC SERVICE TO THE RESIDENTIAL STRUCTURE DOES NOT ALLOW THE SIGN OR SYMBOL TO BE AFFIXED TO THE ELECTRIC BOX, THE SIGN OR SYMBOL SHALL BE AFFIXED TO THE EXTERIOR WALL OF THE RESIDENTIAL STRUCTURE AT A POINT IMMEDIATELY ADJACENT TO THE ELECTRIC BOX; AND

(2) IF NO ELECTRIC BOX IS ATTACHED THE EXTERIOR OF THE RESIDENTIAL STRUCTURE OR IF, IN THE OPINION OF THE AUTHORITY HAVING JURISDICTION, THE ELECTRIC BOX ATTACHED TO THE EXTERIOR OF THE BUILDING IS NOT LOCATED IN A PLACE LIKELY TO BE SEEN BY FIREFIGHTERS OR OTHER FIRST RESPONDERS RESPONDING TO A FIRE OR OTHER EMERGENCY AT THE RESIDENTIAL STRUCTURE, THE SIGN OR SYMBOL REQUIRED BY THIS PART SHALL BE AFFIXED TO THE EXTERIOR OF THE RESIDENTIAL STRUCTURE IN A LOCATION APPROVED THE AUTHORITY HAVING JURISDICTION AS A LOCATION LIKELY TO BE SEEN BY FIREFIGHTERS OR OTHER FIRST RESPONDERS RESPONDING TO A FIRE OR OTHER EMERGENCY AT THE RESIDENTIAL STRUCTURE.

(C) THE SIGN OR SYMBOL REQUIRED BY THIS PART SHALL BE AFFIXED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY OR A CERTIFICATE OF COMPLIANCE. THE AUTHORITY HAVING JURISDICTION SHALL NOT ISSUE A CERTIFICATE OF OCCUPANCY OR CERTIFICATE OF COMPLIANCE UNTIL THE SIGN OR SYMBOL REQUIRED BY THIS PART SHALL HAVE BEEN AFFIXED.

(D) THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR MAINTAINING THE SIGN OR SYMBOL REQUIRED BY THIS PART AND SHALL PROMPTLY REPLACE ANY SUCH SIGN OR SYMBOL THAT IS AFFIXED TO AN ELECTRIC BOX WHEN ANY CHANGE OR MODIFICATION IS MADE TO SUCH ELECTRIC BOX. THE PROPERTY OWNER SHALL PROMPTLY REPLACE THE SIGN OR SYMBOL REQUIRED BY THIS PART IF SUCH SIGN OR SYMBOL IS REMOVED OR BECOMES DAMAGED, FADED, WORN OR OTHERWISE LESS CONSPICUOUS TO FIREFIGHTERS OR OTHER FIRST RESPONDERS RESPONDING THE A FIRE OR OTHER EMERGENCY AT THE RESIDENTIAL STRUCTURE. THE PROPERTY OWNER SHALL KEEP THE AREA IN THE VICINITY OF THE SIGN OR SYMBOL REQUIRED BY THIS PART CLEAR OF ALL PLANTS, VEGETATION, AND OTHER OBSTRUCTION THAT MAY HIDE OR OBSCURE SUCH SIGN OR SYMBOL OR OTHERWISE CAUSE SUCH SIGN OR SYMBOL TO BE LESS CONSPICUOUS TO FIREFIGHTERS OR OTHER FIRST RESPONDERS RESPONDING TO A FIRE OR OTHER EMERGENCY AT THE RESIDENTIAL STRUCTURE.

(E) THE SIGN OR SYMBOL INDICATING OF TRUSS TYPE CONSTRUCTION, PRE-ENGINEERED WOOD CONSTRUCTION AND/OR TIMBER CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THIS SUBDIVISION. (1) THE SIGN OR SYMBOL SHALL CONSIST OF A CIRCLE SIX INCHES (152.4mm) IN DIAMETER, WITH A STROKE WIDTH OF 1/2 INCH (12.7mm). THE BACKGROUND OF THE SIGN OR SYMBOL SHALL BE REFLECTIVE WHITE IN COLOR. THE CIRCLE AND CONTENTS SHALL BE REFLECTIVE RED IN COLOR, CONFORMING TO PANTONE MATCHING SYSTEM (PMS) #187.

(2) THE SIGN OR SYMBOL SHALL BE OF STURDY, NON-FADING, WEATHER RESISTANT MATERIAL; PROVIDED, HOWEVER, THAT A SIGN OR SYMBOL APPLIED DIRECTLY TO A DOOR OR SIDELIGHT MAY BE A PERMANENT NON FADING STICKER OR DECAL.

(3) THE SIGN OR SYMBOL SHALL CONTAIN AN ALPHABETIC CONSTRUCTION TYPE DESIGNATION TO INDICATE THE CONSTRUCTION TYPE OF THE RESIDENTIAL STRUCTURE, AS FOLLOWS:

(i) IF THE RESIDENTIAL STRUCTURE IS SUBJECT TO THE PROVISIONS OF THE BCNYS, THE CONSTRUCTION TYPE DESIGNATION SHALL BE "V" AND

(ii) IF THE RESIDENTIAL STRUCTURE IS SUBJECT TO THE PROVISIONS OF THE BCNYS, THE CONSTRUCTION TYPE DESIGNATION SHALL BE "I", "II", "III", "IV", OR "V" TO INDICATE THE CONSTRUCTION CLASSIFICATION OF THE STRUCTURE UNDER SECTION 602 OF THE BCNYS.

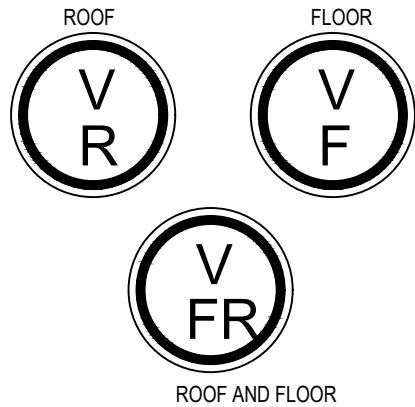
(4) THE SIGN OR SYMBOL SHALL CONTAIN AN ALPHABETIC LOCATION DESIGNATION TO INDICATE THE LOCATIONS (S) CONTAINING TRUSS TYPE CONSTRUCTION, PRE-ENGINEERED WOOD CONSTRUCTION AND/OR TIMBER CONSTRUCTION STRUCTURAL COMPONENTS AS FOLLOWS:

(i) "F" SHALL MEAN FLOOR FRAMING INCLUDING GIRDERS AND BEAMS;

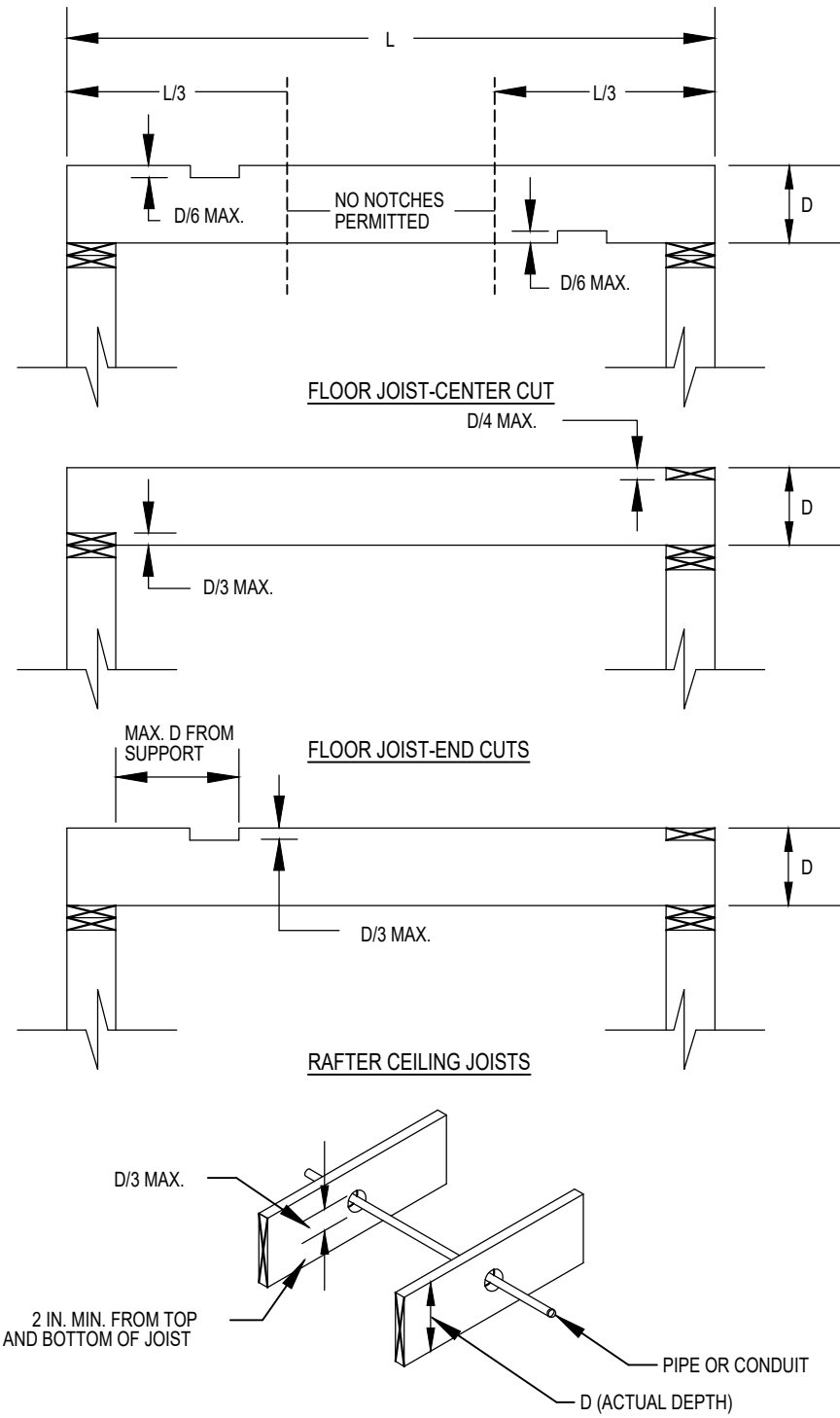
(ii) "R" SHALL MEAN ROOF FRAMING; AND

(iii) "FR" SHALL MEAN FLOOR FRAMING AND ROOF FRAMING.

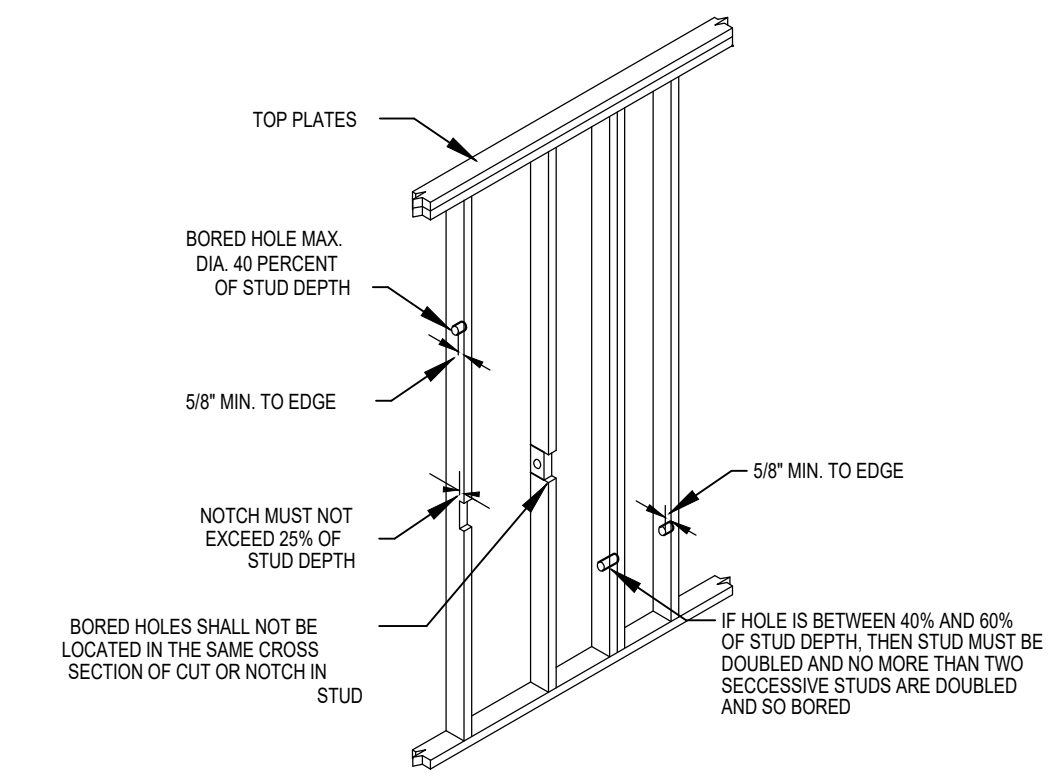
(5) THE CONSTRUCTION TYPE DESIGNATION SHALL BE PLACED AT THE 12 O'CLOCK POSITION OF THE SIGN OR SYMBOL, OVER THE LOCATION DESIGNATION, WHICH SHALL BE PLACED AT THE SIX O'CLOCK POSITION OF THE SIGN OR SYMBOL.



BUILDING INSPECTOR WILL VERIFY INSTALLTION OF SIGN / SYMBOL DURING FINAL INSPECTION.



CUTTING DRILLING AND NOTCHING DETAIL
OF JOISTS



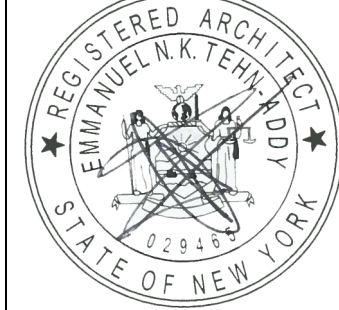
NOTE: CONDITION FOR EXTERIOR AND BEARING WALLS.

DRILLING AND NOTCHING DETAIL
OF STUDS

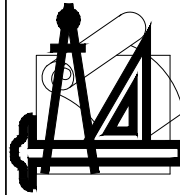
REVISIONS

6-2-25: ISSUED TO BUILDING DEPARTMENT

SEAL



PROJECT	PROPOSED NEW DWELLING	CLIENT	24 MIDWAY STREET BABYLON, NEW YORK
ARCHITECT	MIDWAY STREET RESIDENCE	1257 UDALL RD. BAY SHORE, NEW YORK	631-888-7318
DATE	4-24-25	JOB NO.	24139
SCALE	1/4"=1'-0"	DWG NO.	



14
15

JOIST DETAILS

Diagram showing various joist details including blocking panels, web stiffeners, and fastener requirements. Includes tables for fastener installation requirements and exterior deck attachment details.

Fastener Installation Requirements

Piece	# of Piles	Type ⁽¹⁾	Min. Length	# Rows	O.C. Spacing	Location
1 1/2"	2	10d nails	3"	3 ⁽²⁾	12"	One side
		12d-16d nails	3 1/4"	2 ⁽²⁾	12"	One side
		10d nails	3"	3 ⁽²⁾	12"	Both sides
		12d-16d nails	3 1/4"	2 ⁽²⁾	12"	Both sides
3/4"	2	10d nails	3"	3 ⁽²⁾	12"	One side (per ply)
		12d-16d nails	3 1/4"	2 ⁽²⁾	12"	One side
		Screws	5" or 6"	2	24"	Both sides
		Screws	6 3/4"	2	24"	One side
3/2"	2	Screws	5" or 6"	2	24"	One side
		Screws	6 3/4"	2	24"	One side

(1) 10d nails are 0.128" diameter; 12d-16d nails are 0.148" - 0.162" diameter; screws are SDS, SDWS, USP WS, or Trusslok®
(2) An additional row of nails is required with depths of 14" or greater.
(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.

Multiple-Member Connections for Top-Loaded Beams

Diagram showing connections for top-loaded beams with various fasteners and dimensions.

BEAM DETAILS

Diagram showing beam details including bearing at wall, bearing for door or window header, beam to beam connection, and bearing at concrete wall.

Diagram showing multiple-member connections for top-loaded beams, including fastener installation requirements and nailing at bearing (floor).

Diagram showing nailing at bearing (floor) and beam attachment at bearing, including fastener installation requirements and nailing at bearing (floor).

Diagram showing exterior deck attachment details, including fastener installation requirements and nailing at bearing (floor).

Diagram showing fastener installation requirements and nailing at bearing (floor), including fastener installation requirements and nailing at bearing (floor).

Diagram showing multiple-member connections for top-loaded beams, including fastener installation requirements and nailing at bearing (floor).

Diagram showing allowable holes in TJI joists, including fastener installation requirements and nailing at bearing (floor).

Diagram showing fastener installation requirements and nailing at bearing (floor), including fastener installation requirements and nailing at bearing (floor).

Diagram showing multiple-member connections for top-loaded beams, including fastener installation requirements and nailing at bearing (floor).

Project information including project name, client, architect, date, and other details.