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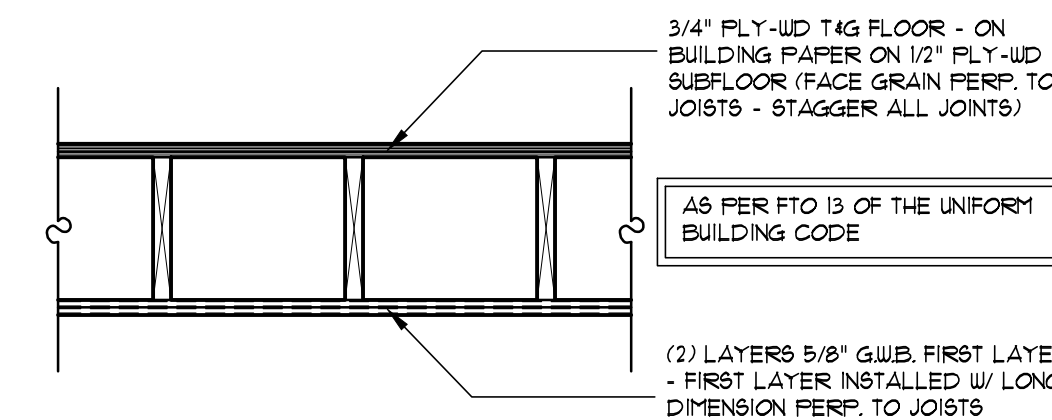


Diagram illustrating the wall construction between the **LIVING SPACE** and the **GARAGE**. The wall assembly includes **2x4 STUDS**, **INSULATION**, and **5/8" TYPE 'X' GYP. BOARD**.

NOTES:

1. INSTALL 5/8" TYPE "X" GYPSUM BOARD AT RIGHT ANGLES TO STUD FASTENED WITH 1-1/4" DRYWALL SCREWS OR NAILS AT 12" ON CENTER. THE JOINTS OF THE GYPSUM BOARD SHALL BE SEPARATED BY AT LEAST ONE STUD BAY OR OPPOSITE SIDES OF THE WALL.
2. GYPSUM WALLBOARD SHALL BE INSTALLED AT RIGHT ANGLES TO STUDS AND FASTENED WITH 4 MIN 1-1/4" DRYWALL SCREWS AT 12" ON CENTER. FIRE RESISTANT WALL DESIGN IS BASED ON NEW JERSEY, DIVISION OF CODES AND STANDARDS, FORMAL TECHNICAL OPINION (FTO-13), DATED JUNE 1999.

FIRE RESISTANT INTERIOR
WALL PLAN (FTO-13)



4 FLOOR ASSEMBLY @ GARAGE
A2 NTS



1. A CONTINUOUS VAPOR BARRIER OF NOT LESS THAN 6 MIL (.006 INCH) POLYVINYL CHLORIDE OR POLYETHYLENE WITH ANY SEAMS OVERLAPPED NOT LESS THAN 12 INCHES, OR OTHER APPROVED MATERIALS, SHALL BE INSTALLED UNDER THE SLAB IN THE BASEMENT AND SLAB-ON-GRADE CONSTRUCTION AND ON THE SOIL IN CRAWL SPACE CONSTRUCTION. FLOORS OF BASEMENTS AND SLAB-ON-GRADE CONSTRUCTION SHALL BE PLACED OVER A BASE COURSE, NOT LESS THAN 4 INCHES IN THICKNESS, CONSISTING OF GRAVEL OR CRUSHED STONE CONTAINING NOT MORE THAN 10 PERCENT OF MATERIAL THAT PASSES THROUGH A NO. 4 SIEVE.

2. BASEMENT SLABS WITH INTERIOR FOUNDATION PIPE DRAIN SHALL HAVE A SOLID THREE-INCH PIPE MINIMUM DIAMETER VENT PIPE SECTION INSTALLED IN CONJUNCTION WITH THIS DRAINAGE SYSTEM WITH TERMINATION BETWEEN 6 AND 12 INCHES ABOVE THE SLAB AND APPROPRIATELY CAPPED OR CONNECTED TO AN INDEPENDENT VENT STACK PIPE TERMINATING AT AN APPROVED LOCATION ON THE EXTERIOR OF THE BUILDING.

3. BASEMENT SLABS WHICH DO NOT HAVE AN INTERIOR FOUNDATION PIPE DRAIN SHALL BE PROVIDED WITH ONE THREE INCH MINIMUM SOLID VENT PIPE SECTION WITH A "T" PIPE FITTING FOR EVERY 1500 SF OR PORTION THEREOF OF SLAB AREA. THIS VENT PIPE SECTION SHALL BE INSTALLED INTO THE SUB-SLAB AGGREGATE. THE VERTICAL SECTION OF THE "T" PIPE FITTING SHALL TERMINATE BETWEEN 6 AND 12 INCHES ABOVE THE SLAB. THESE FITTINGS SHALL BE CLEARLY LABELED AND CONNECTED TO AN INDEPENDENT VENT STACK PIPE TERMINATING ABOVE THE EXTERIOR OF THE ROOF.

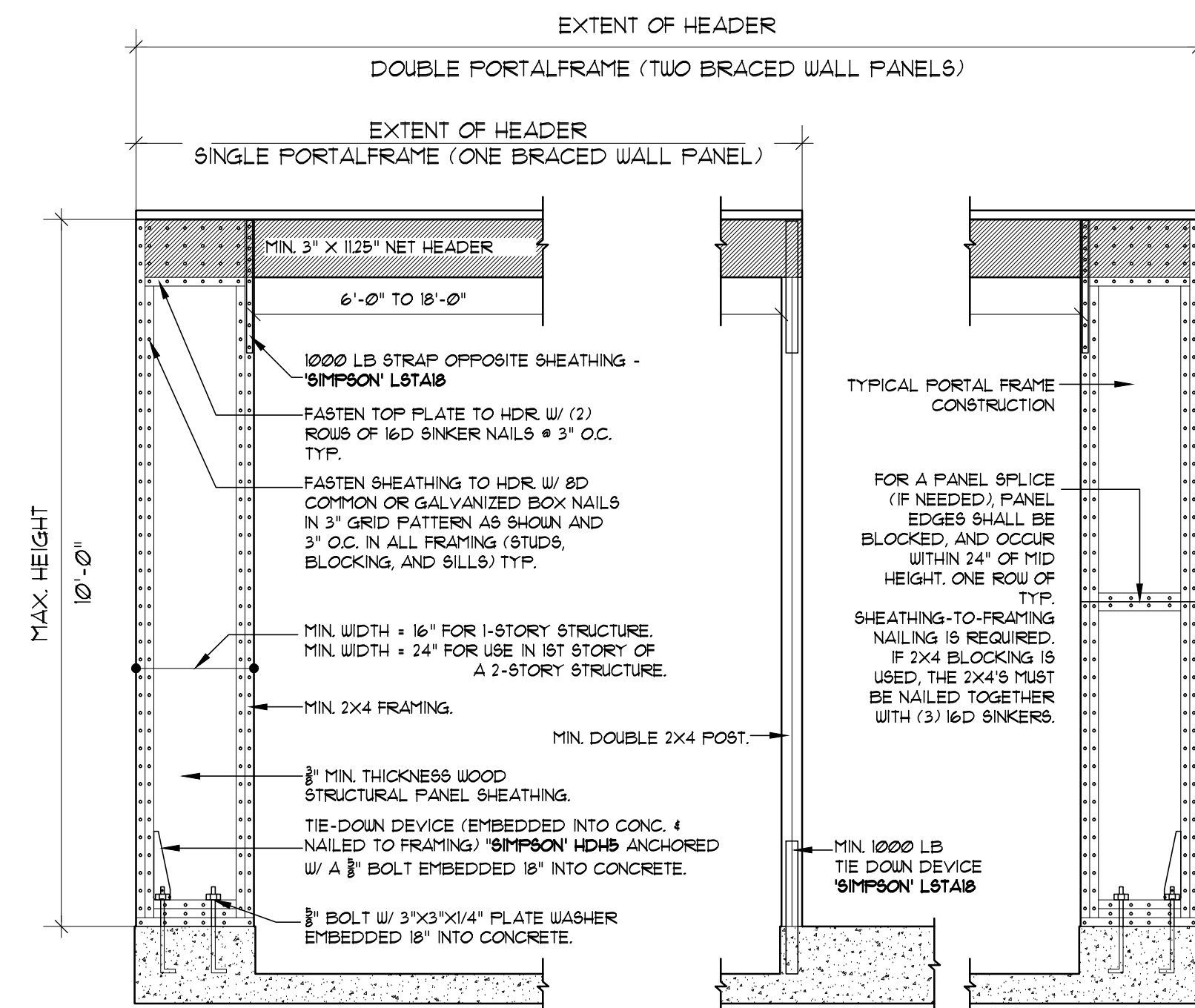
4. JOINTS IN FOUNDATION WALLS AND FLOORS, INCLUDING, WITHOUT LIMITATION, CONTROL JOINTS BETWEEN SLAB SECTIONS POURED SEPARATELY, AND BETWEEN FOUNDATION WALL AND FLOOR (EXCEPT FOR FRENCH DRAINS OR CHANNEL DRAINS) AS WELL AS PENETRATIONS OF THE FOUNDATION WALLS AND FLOOR INCLUDING, BUT NOT LIMITED TO, UTILITY PENETRATIONS SHALL BE SUBSTANTIALLY SEALED BY UTILIZING A NON-CRACKING POLYURETHANE OR SIMILAR CAULK, OR EQUIVALENT, IN ORDER TO CLOSE OFF THE SOIL GAS ENTRY ROUTES. UNTRAPPED FLOOR DRAINS SHALL BE PROVIDED WITH REMOVABLE STOPPERS WHICH SUBSTANTIALLY CLOSE OFF THE SOIL GAS ENTRY ROUTES.

5. A SUMP COVER WHICH SUBSTANTIALLY CLOSES OFF THE SOIL GAS ENTRY ROUTES SHALL BE PROVIDED FOR ALL SUMP INSTALLATIONS. IF FOUNDATION PIPE DRAINS TERMINATE AT A SUMP INSTALLATION AND PROVISIONS ARE MADE FOR VENTING FROM THE SUMP INSTALLATION, THE THREE INCH DIAMETER SOLID VENT PIPE SECTION REQUIREMENT OF 2 ABOVE NEED NOT BE PROVIDED.

6. ANY DUCTWORK THAT IS ROUTED THROUGH A CRAWL SPACE OF BENEATH A SLAB SHALL BE PROPERLY TAPED OR SEALED. SEALANT MATERIALS THAT SUBSTANTIALLY CLOSE OFF THE SOIL GAS ENTRY ROUTES SHALL BE INSTALLED ON ANY DOORS OR OTHER OPENINGS BETWEEN BASEMENTS AND ADJOINING CRAWL SPACES THAT ARE VENTED TO THE EXTERIOR. THE TOPS OF FOUNDATION WALLS, INCLUDING, WITHOUT LIMITATION, INTERIOR LEDGES, THAT ARE CONSTRUCTED OF HOLLOW MASONRY UNITS SHALL BE CAPPED, OR THE VOIDS SHALL BE COMPLETELY FILLED.

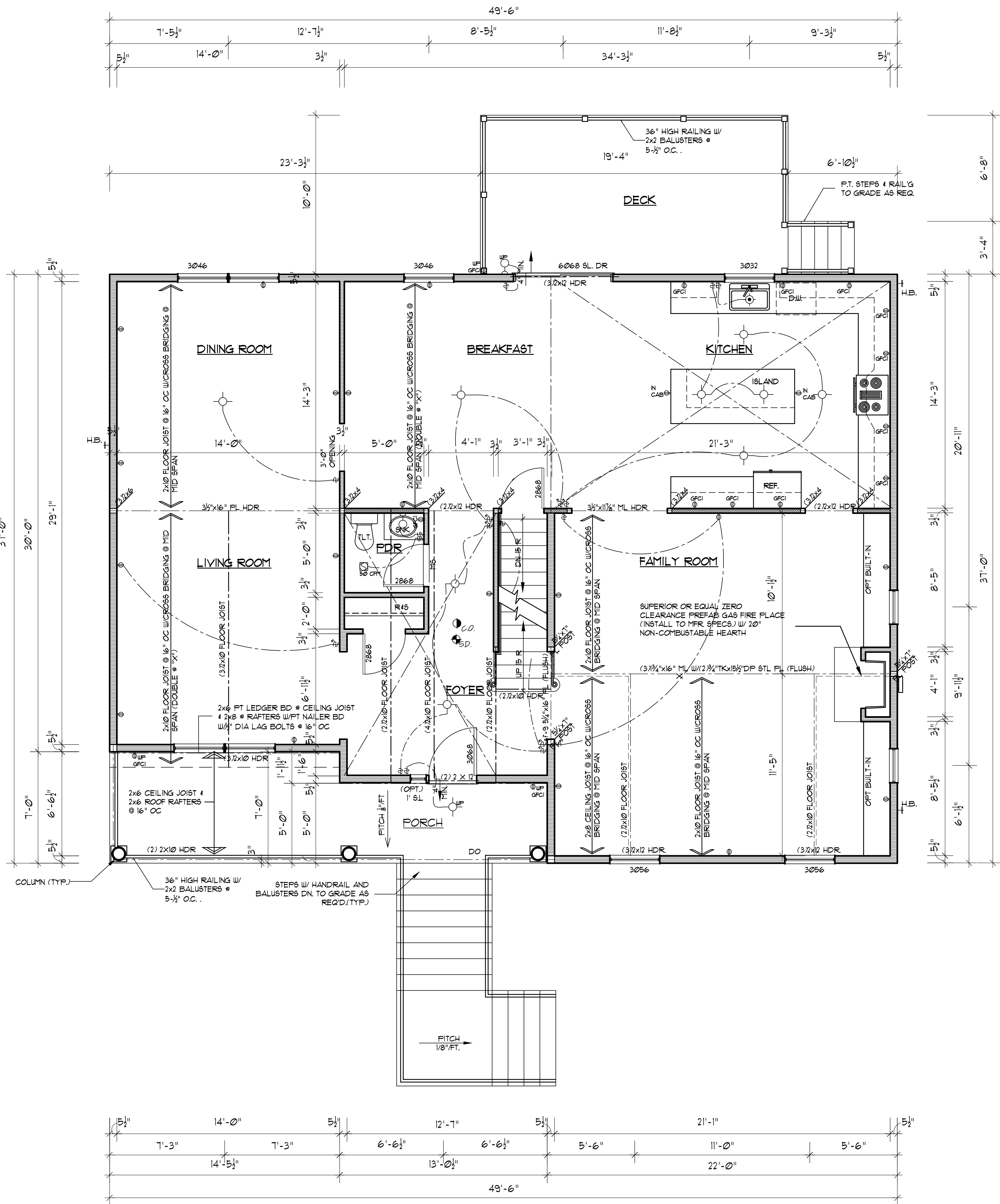
7. WHEN CAPPED INTERIOR VENT PIPE SECTIONS ARE PROVIDED, OR VENTING FROM THE SUMP INSTALLATION IS PROVIDED AS DIRECTED ABOVE, AN ADEQUATELY SUPPORTED THREE INCH MINIMUM DIAMETER SOLID VENT PIPE SHALL BE INSTALLED FROM A POINT THAT IS WITHIN 10 FEET OF THE CAPPED INTERIOR VENT PIPE SECTION OR SUMP INSTALLATION THROUGH ANY ENCLOSED PORTIONS OF THE BUILDING, TERMINATING AT AN APPROVED LOCATION ON THE EXTERIOR OF THE BUILDING. THIS VENT PIPE SHALL BE CLEARLY LABELED AND SHALL MEET THE TERMINATION REQUIREMENTS OF SECTION 12.4 OF THE PLUMBING SUBCODE. JOINTS AND CONNECTIONS IN THE VENT PIPE SHALL BE GAS TIGHT, UNLESS OPENINGS SHALL CLOSED OR CAPPED.

Diagram showing a cross-section of a wall and floor assembly with a radon gas barrier and a radon gas vent pipe.

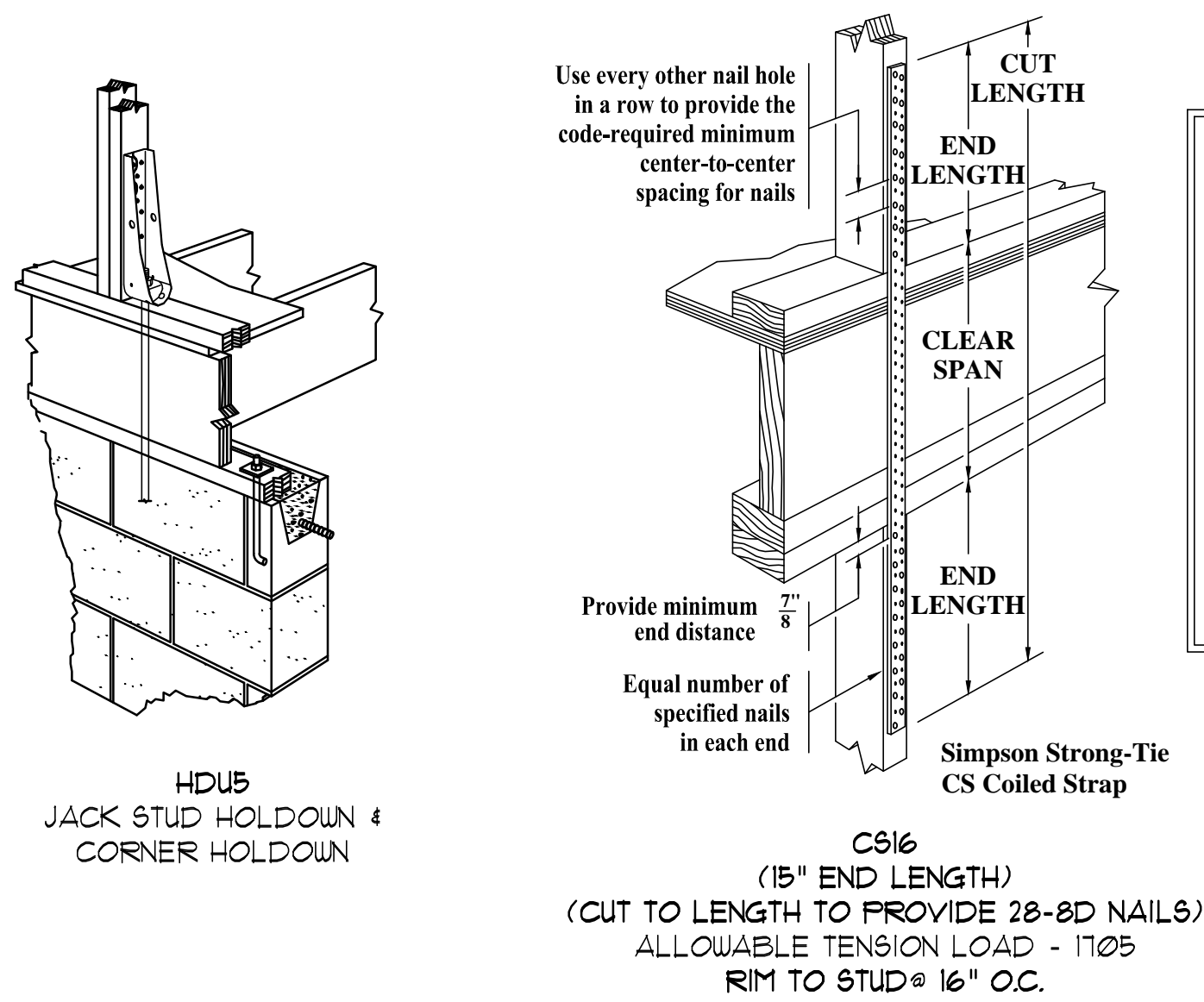


ALTERNATE BRACED WALL PANEL ADJ. TO A
DOOR OR WINDOW OPENING

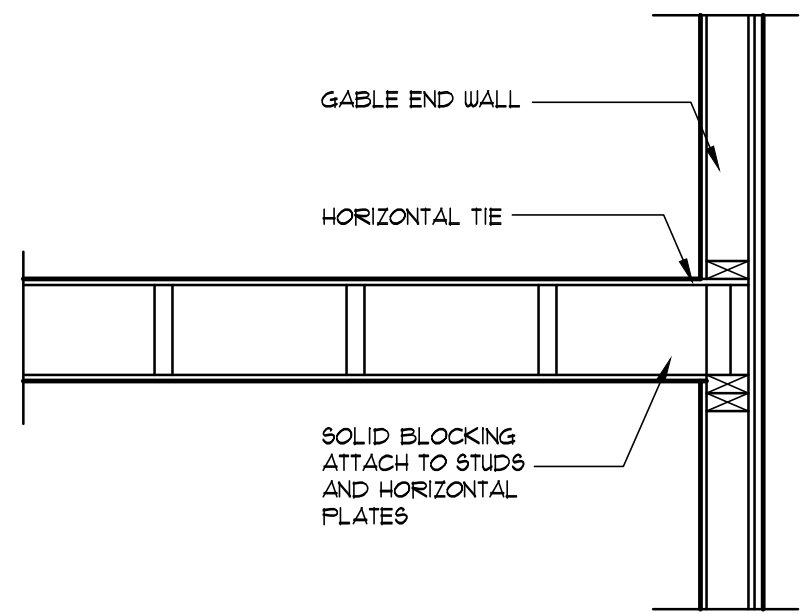
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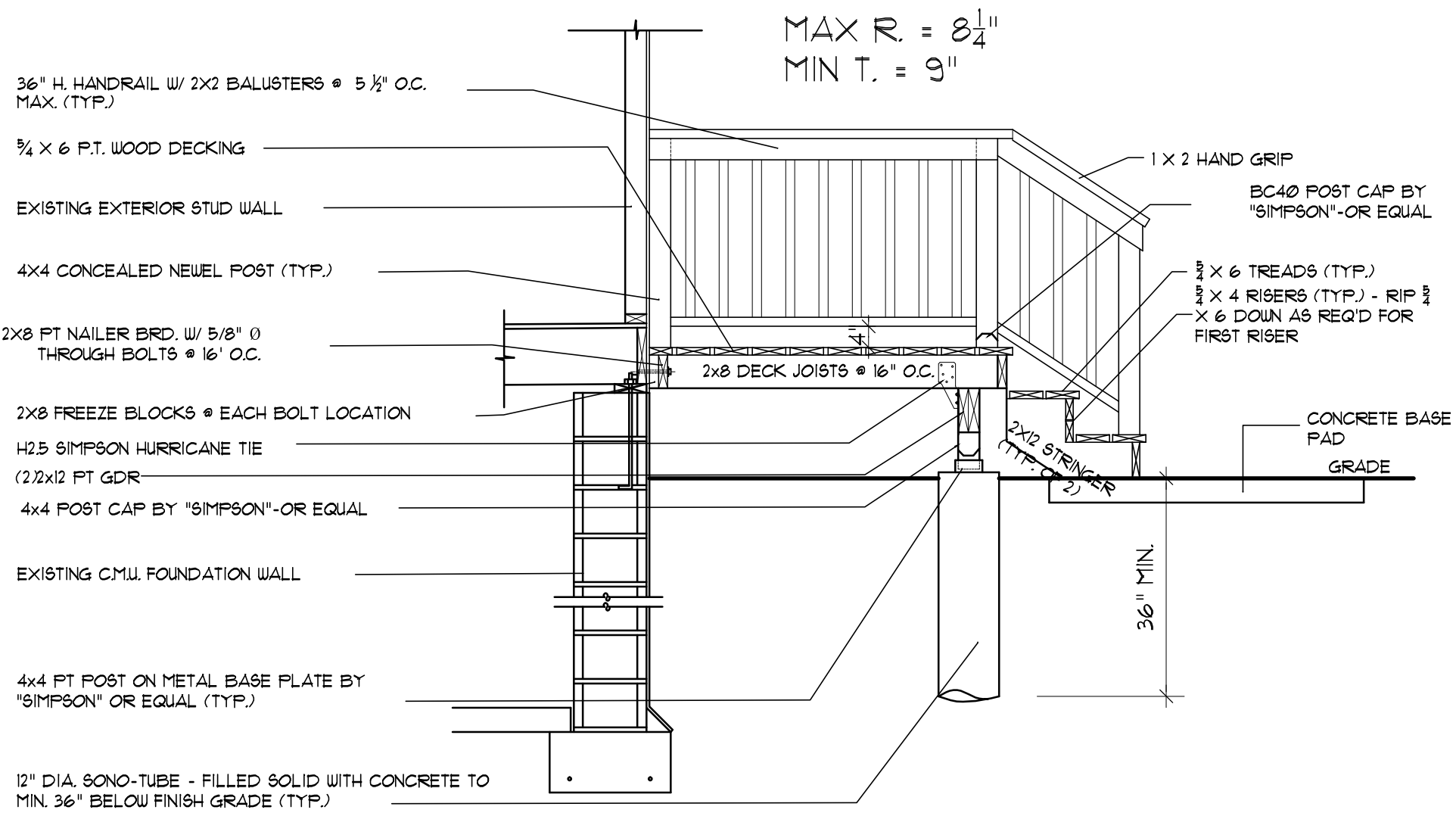
1 FIRST FLOOR PLAN
A3 SCALE 1/4"=1'-0"



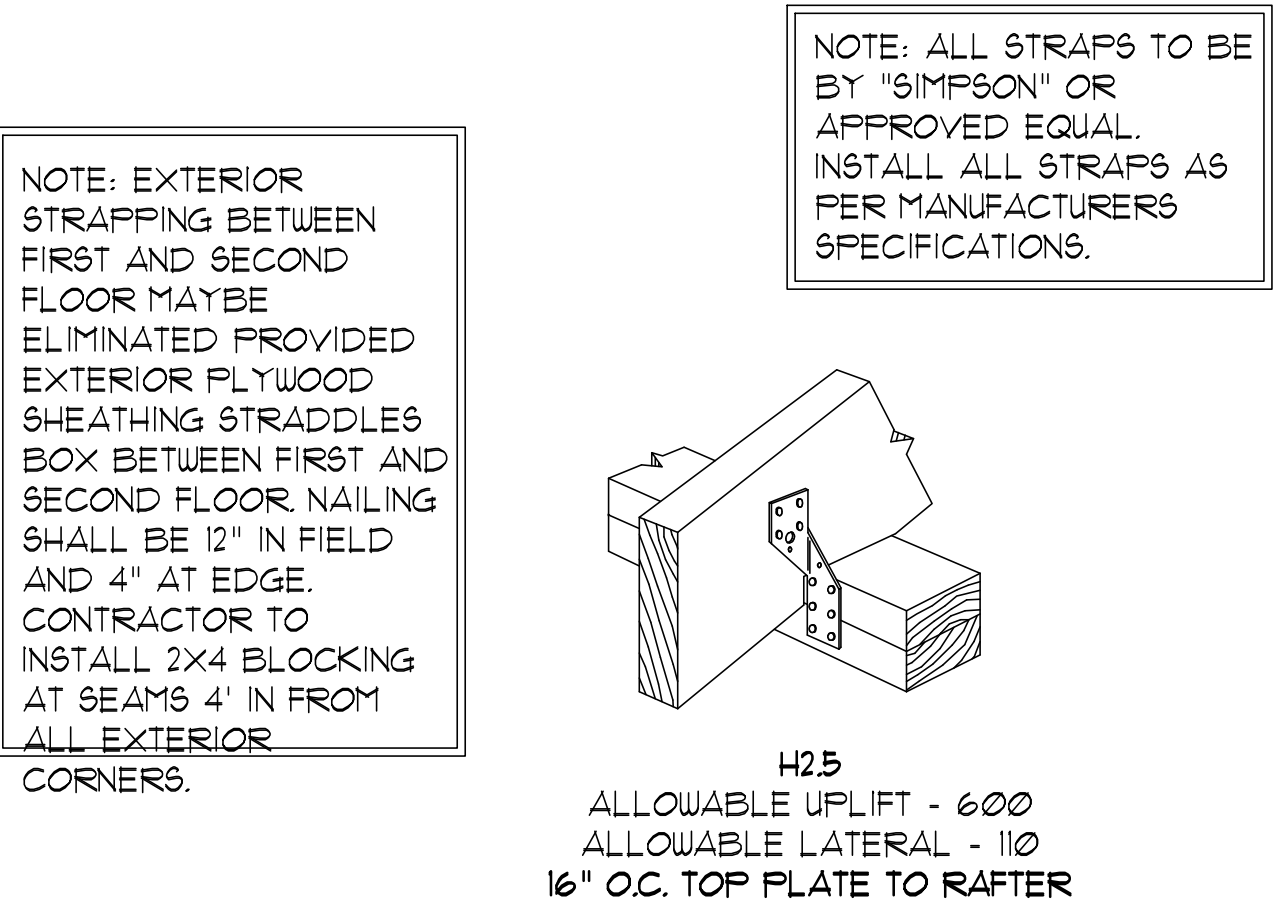
2 HIGH WIND STRAP DETAILS
A3 SCALE NTS



3 FLOOR BRACING ENDWALL
A2 SCALE 3/4"=1'



4 REAR DECK & STAIR SECTION
A3 SCALE 1/2"=1'



PERMIT: 4-8-20
REV: 6-5-20

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NEW CONSTRUCTION FOR:
DYKEMAN ASSOCIATES
522 SOUTH RIVERSIDE DRIVE,
NEPTUNE, NEW JERSEY

FIRST FLOOR PLAN AND
DETAILS

PROJECT: 20046
DWG BY: SH
SHEET 4 OF 6

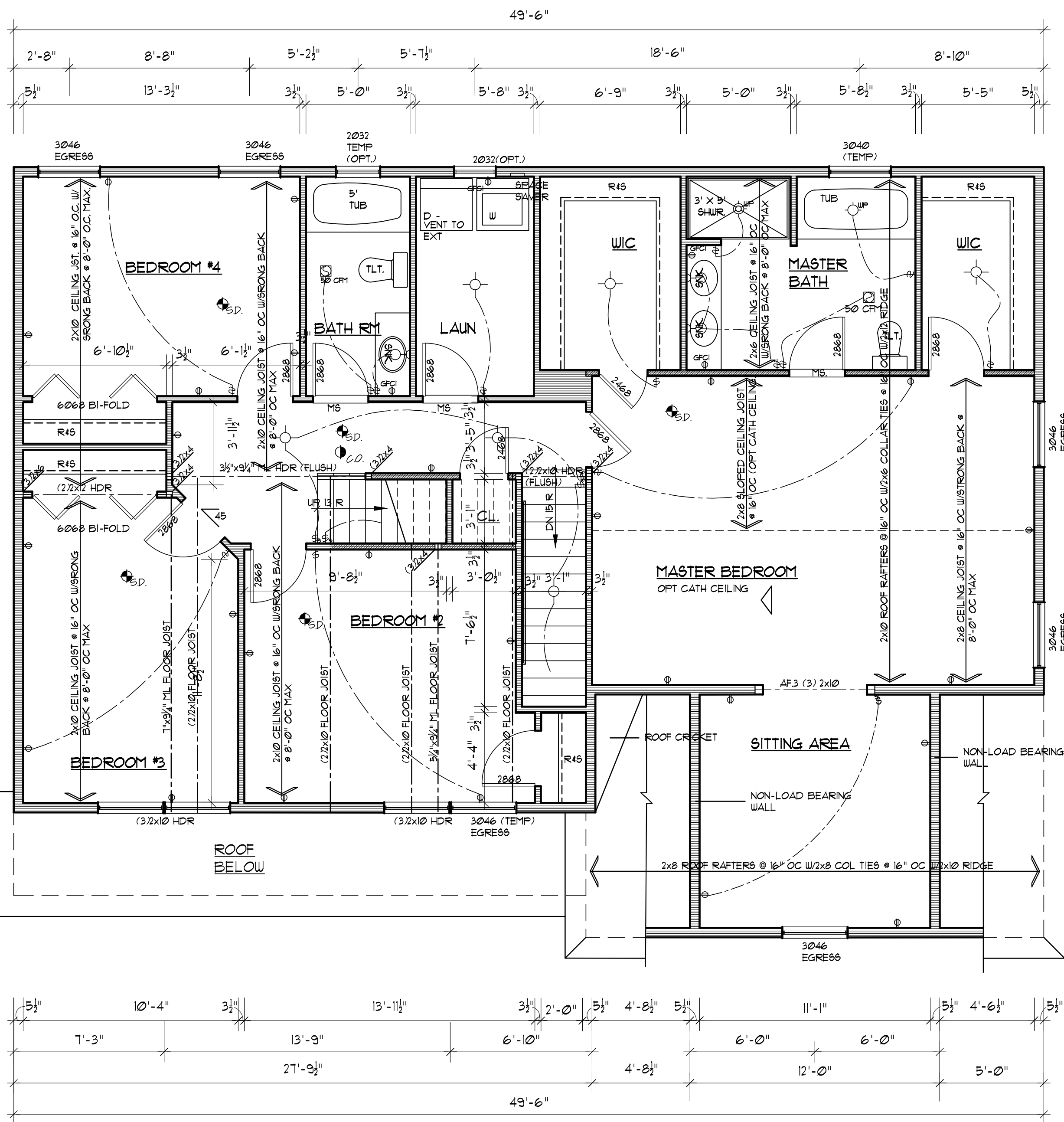
A3

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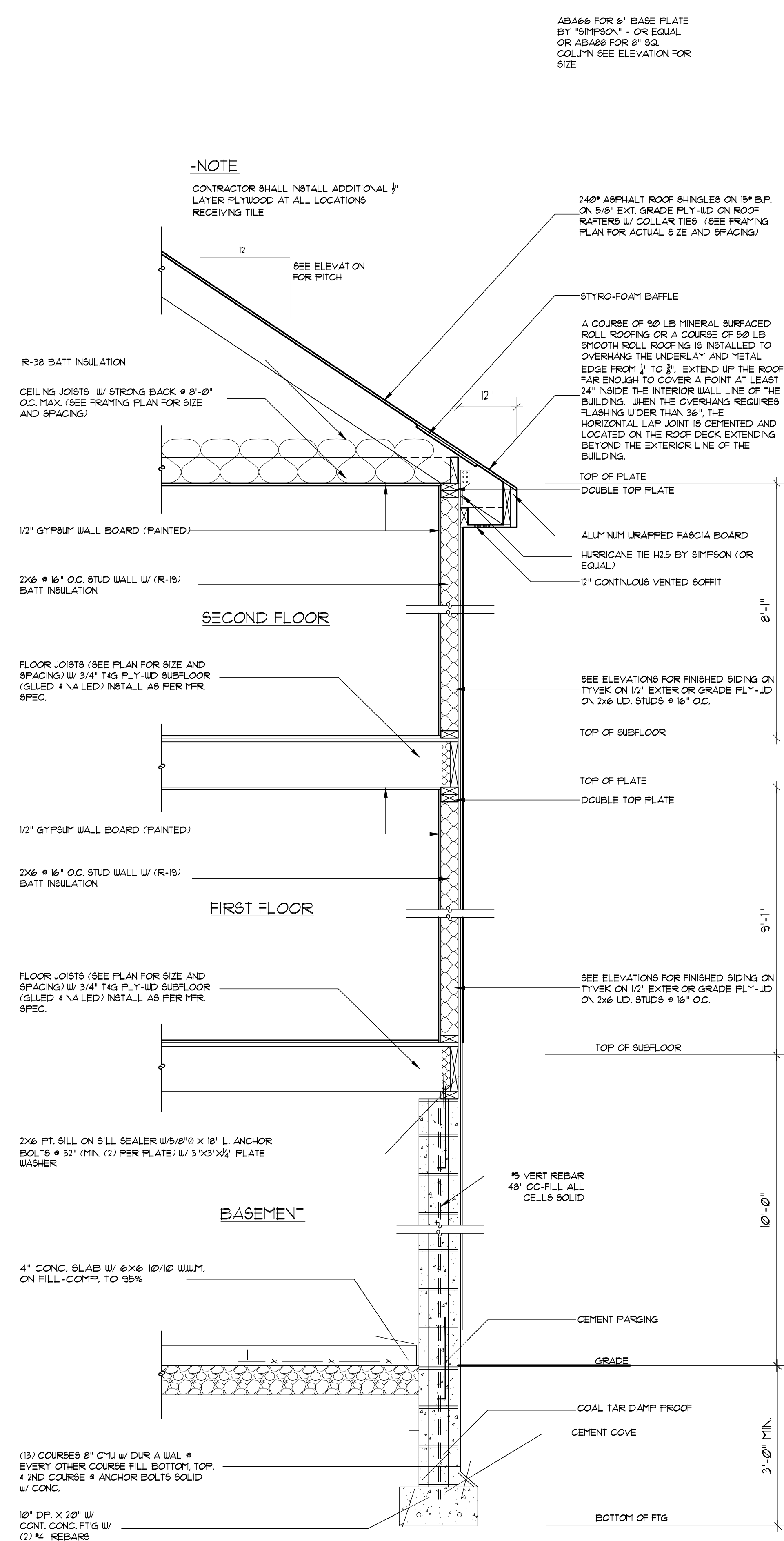
111 Diamond Avenue - Montclair, New Jersey 07728

1315 90th Street - Neptune, NJ 07722



1 SECOND FLOOR PLAN
A4 SCALE 1/4"=1'-0"

2 WALL SECTION
A4 SCALE 3/4"=1'





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