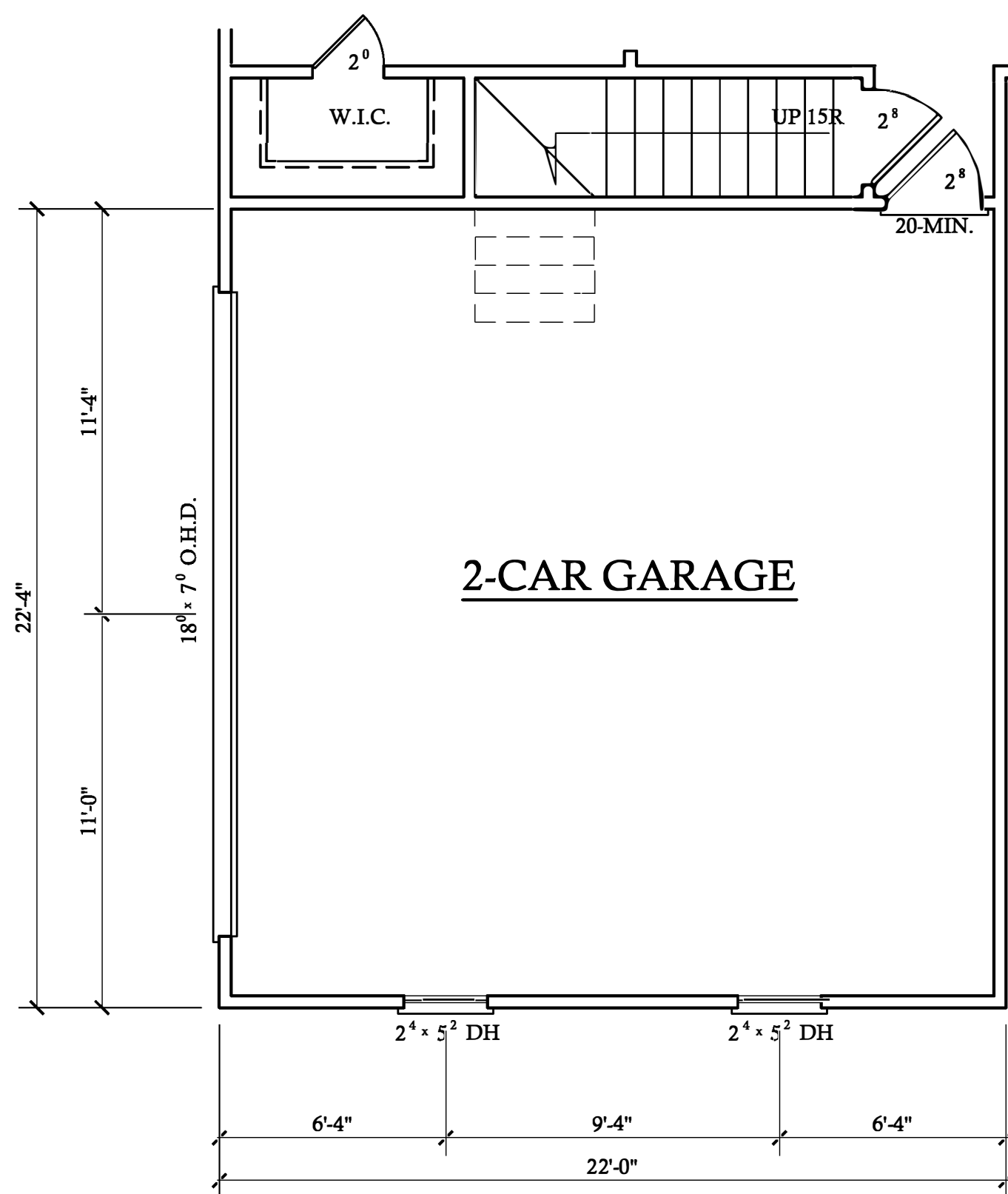


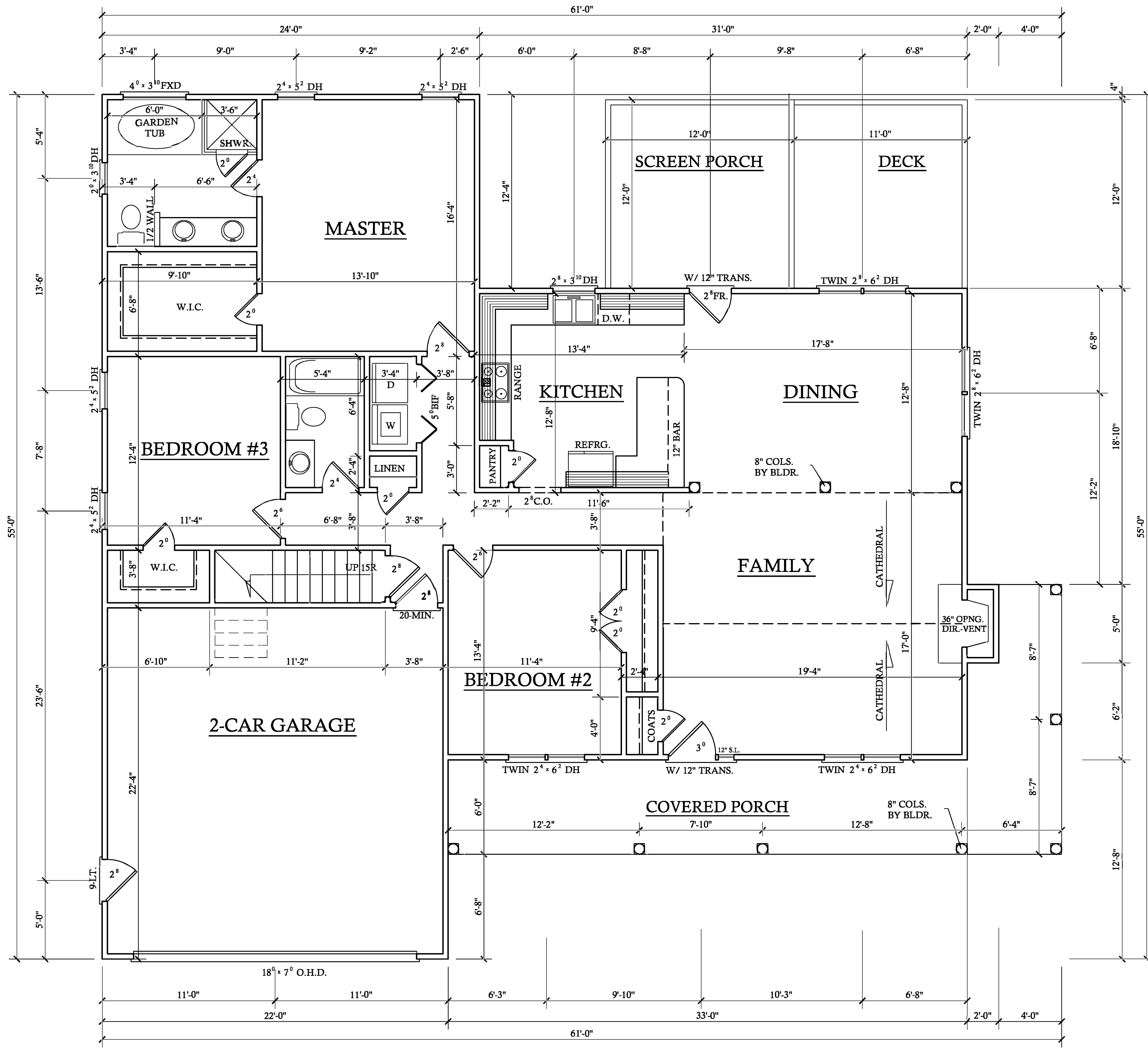
**SECOND FLOOR PLAN**

SCALE: 1/4"=1'-0"  
8'-0" CLG. HGT.



**OPTIONAL SIDE ENTRY**

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



HEATED	
FIRST FLOOR HTD. SQ. FT.	= 1697
UNHEATED	
STORAGE	= 310
FRONT PORCH SQ. FT.	= 301
SCREEN PORCH SQ. FT.	= 144
DECK SQ. FT.	= 132
GARAGE SQ. FT.	= 489

**FIRST FLOOR PLAN**

SCALE: 1/4"=1'-0"  
9'-0" CLG. HGT.  
SET WINDOWS AT 6'-8" A.F.F.

DRAWN FOR:



FUQUAY-VARINA, NC  
919-577-9922

DRAWN BY:  
**D.W.O.**

DATE:  
**6/2/20**

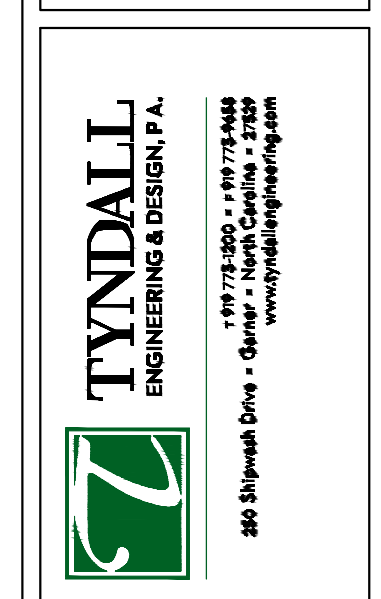
PAGE NO

**2**  
OF  
**8**

PLAN NO.  
**DK1697**

**STANCIL BUILDERS, INC.**

\*Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.  
 Any deviation or discrepancy on plans are to be brought to the immediate attention of Tyn dall Engineering & Design, P.A. Failure to do so will void Tyn dall Engineering & Design, P.A. liability.  
 \*Please review these documents carefully. Tyn dall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.



**TYNDALL**  
 ENGINEERING & DESIGN, P.A.  
 10075-1500 • 919-775-7444  
 400 Blaylock Drive • Cary • North Carolina • 27513  
 www.tyndallengineering.com

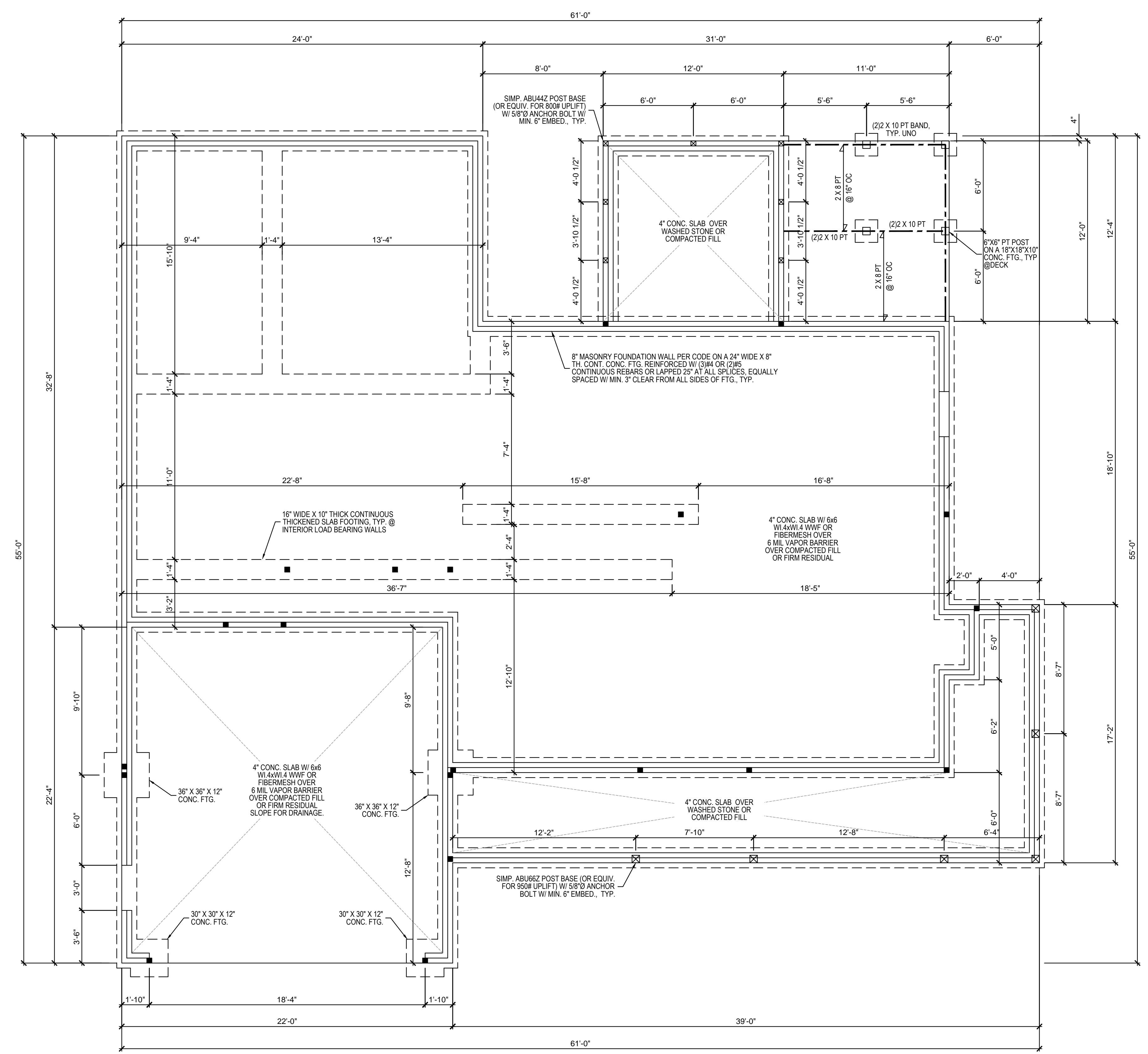
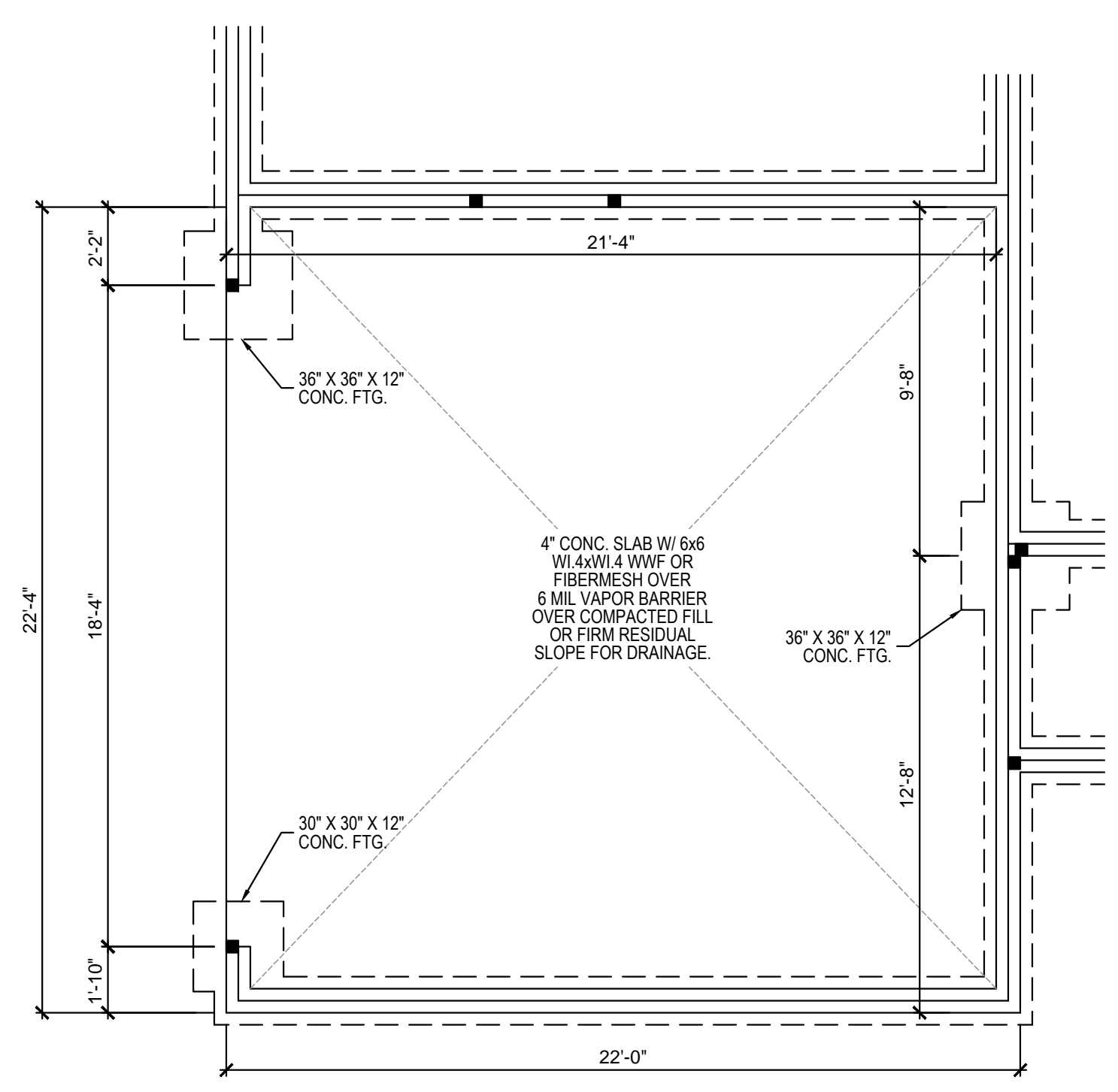
Client: STANCL BUILDERS  
 Project: DK 1697 - GARAGE LEFT

# FOUNDATION PLAN 1ST FLOOR FRAMING

Project #: 1801-010027  
 Date: 06/30/20  
 Drawn/Design By: JTT  
 DWG. Checked By: PAT  
 Scale: SEE PLAN

REVISIONS		
No.	Date	Remarks

Sheet Number  
**S1**  
 3 of 8

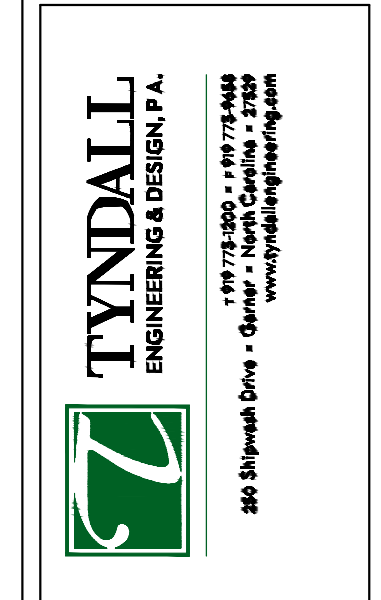


**FOUNDATION PLAN**  
 1/4" = 1'-0"

FILENAME: Z:\RESIDENTIAL ENVS\2018 STRUCTURAL PROJECTS\1801-010027 - STANCL BUILDERS - PLAN DK 1697E-4-20\1801-010027\_UPDATE LEFTING SWED.BR: JOHNNY LUST FLAUT DATE:7/2/2020 4:04 PM



\*Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.  
 Any deviation or discrepancy on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. liability.  
 \*Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.



**TYNDALL**  
 ENGINEERING & DESIGN, P.A.  
 400 Blawiech Drive • Cary, NC • 27513  
 919.775.4444 • www.tyndalleng.com

Client: STANCL BUILDERS  
 Project: DK 1697 - GARAGE LEFT

**1ST FLOOR HEADER  
 2ND FLOOR FRAMING**

Project #: 1801-010027  
 Date: 06/30/20  
 Drawn/Design By: JTT  
 DWG. Checked By: PAT  
 Scale: SEE PLAN

REVISIONS		
No.	Date	Remarks

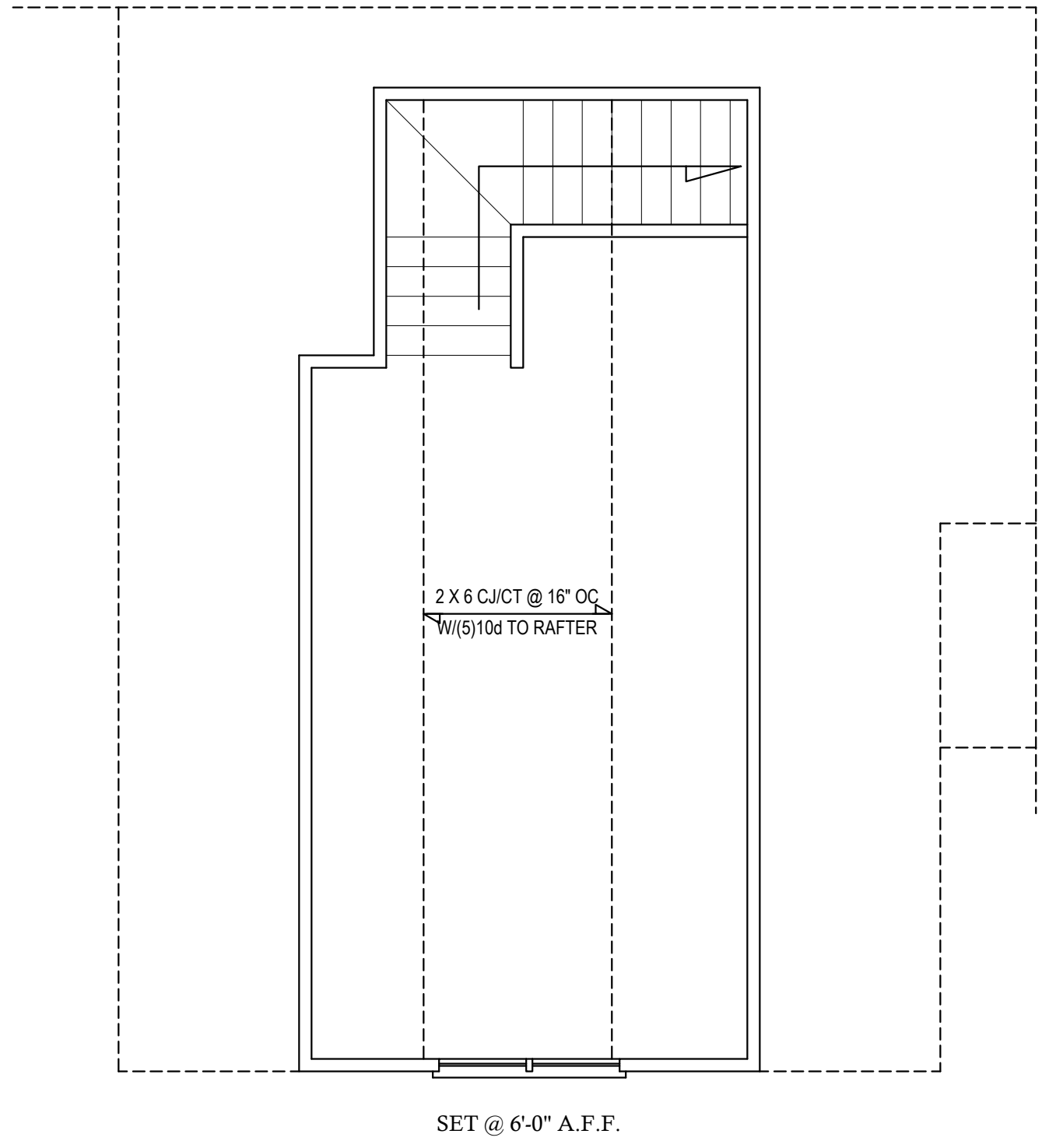
Sheet Number  
**S2**  
 4 of 8

**DESIGN LOADS**

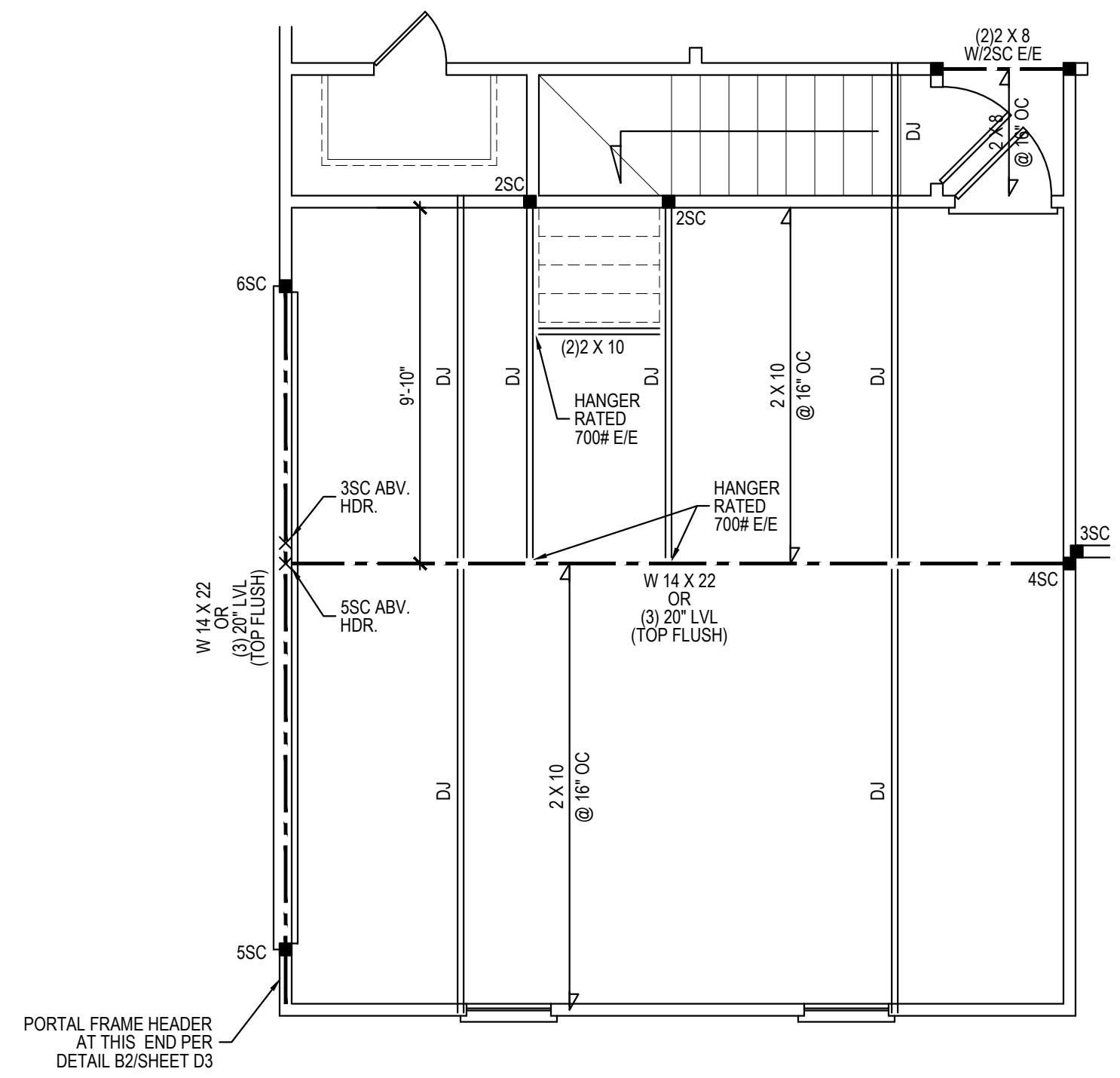
	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION	
			L <sub>s</sub>	L <sub>t</sub>
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	20	10	L/240	L/180
ATTIC (no access)	10	5	L/240	L/180
EXTERNAL BALCONY	40	10	L/360	L/240
ROOF	20	10	L/240	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND LOAD	BASED ON 150 MPH (EXPOSURE B)			
SEISMIC	BASED ON SEISMIC ZONES A, B & C			

**STRUCTURAL NOTES:**

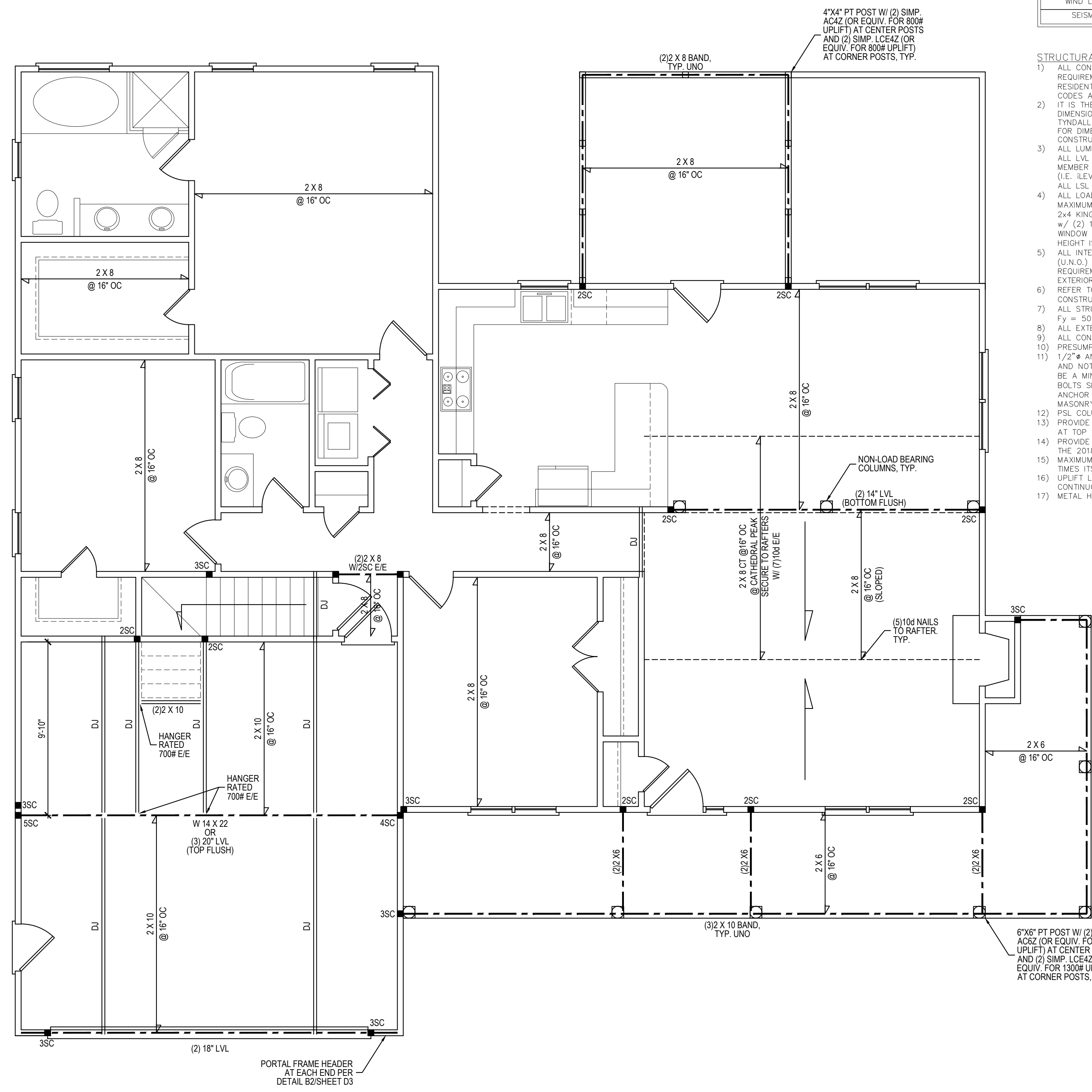
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, P.A. IS NOT RESPONSIBLE FOR DIMENSIONS AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
- ALL LUMBER SHALL BE SYP #2 (UNO)
- ALL LVL LUMBER IS TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND F<sub>b</sub> = 2600 PSI, E = 1.9M PSI (I.E. LEVEL MICROLAM)
- ALL LOAD BEARING EXTERIOR WINDOW HEADERS WITH MAXIMUM SPAN OF 5'-6" SHOULD BE A (2) 2x10 w/ (1) 2x4 KING STUD AND (1) 2x4 JACK STUD, NAILED TOGETHER w/ (2) 10d @ 8" O.C. PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6'-8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1'-6", OTHERWISE REFER TO TABLE R602.7(1).
- ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER TO TABLE R602.7(2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UNO)
- REFER TO 2018 IRC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL WALLS OVER 10'-0" IN HEIGHT.
- ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50 F<sub>y</sub> = 50 KSI MIN. (UNO)
- ALL EXTERIOR LUMBER TO BE #2 SYP PT
- ALL CONCRETE, f<sub>c</sub> = 3000 PSI MIN.
- PRESUMPTIVE BEARING CAPACITY = 2000 PSF
- 1/2" ANCHOR BOLTS SPACED AT MAXIMUM OF 6'-0" O.C. AND NOT MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY.
- PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO)
- PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
- PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018 IRC.
- MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.
- METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.



**SECOND FLOOR PLAN**  
 1/4" = 1'-0" CEILING HGT. = 8'-0" (U.N.O.)



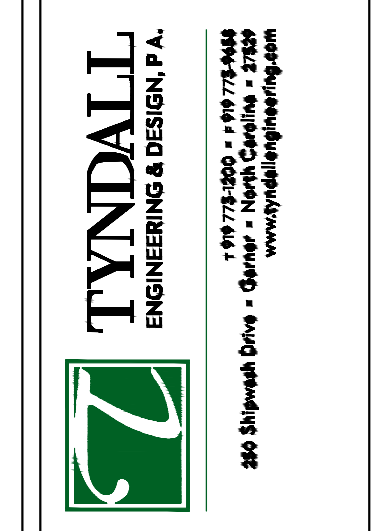
**OPTIONAL SIDE ENTRY**  
 1/4" = 1'-0"



**FIRST FLOOR PLAN**  
 1/4" = 1'-0" CEILING HGT. = 9'-0" (U.N.O.)

FILENAME: Z:\\_RESIDENTIAL ENVS\2018 STRUCTURAL PROJECTS\1801-010027 - STANCL BUILDERS - PLAN DK 1697-E-4-20\1801-010027\_UPDATE\_LETTINGS\_SWED.BR: JOHNNY LAST FLUT DATE: 7/2/2020 4:04 PM

Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precautions. Any deviation or discrepancy on plans are to be brought to the immediate attention of Tyn dall Engineering & Design, P.A. Failure to do so will void Tyn dall Engineering & Design, P.A. liability. Please review these documents carefully. Tyn dall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.



**TYNDALL**  
ENGINEERING & DESIGN, P.A.  
10075-2500 • 404-775-7448  
www.tyndallengineering.com  
400 Blytheville Drive • Cary, NC • North Carolina • 27509

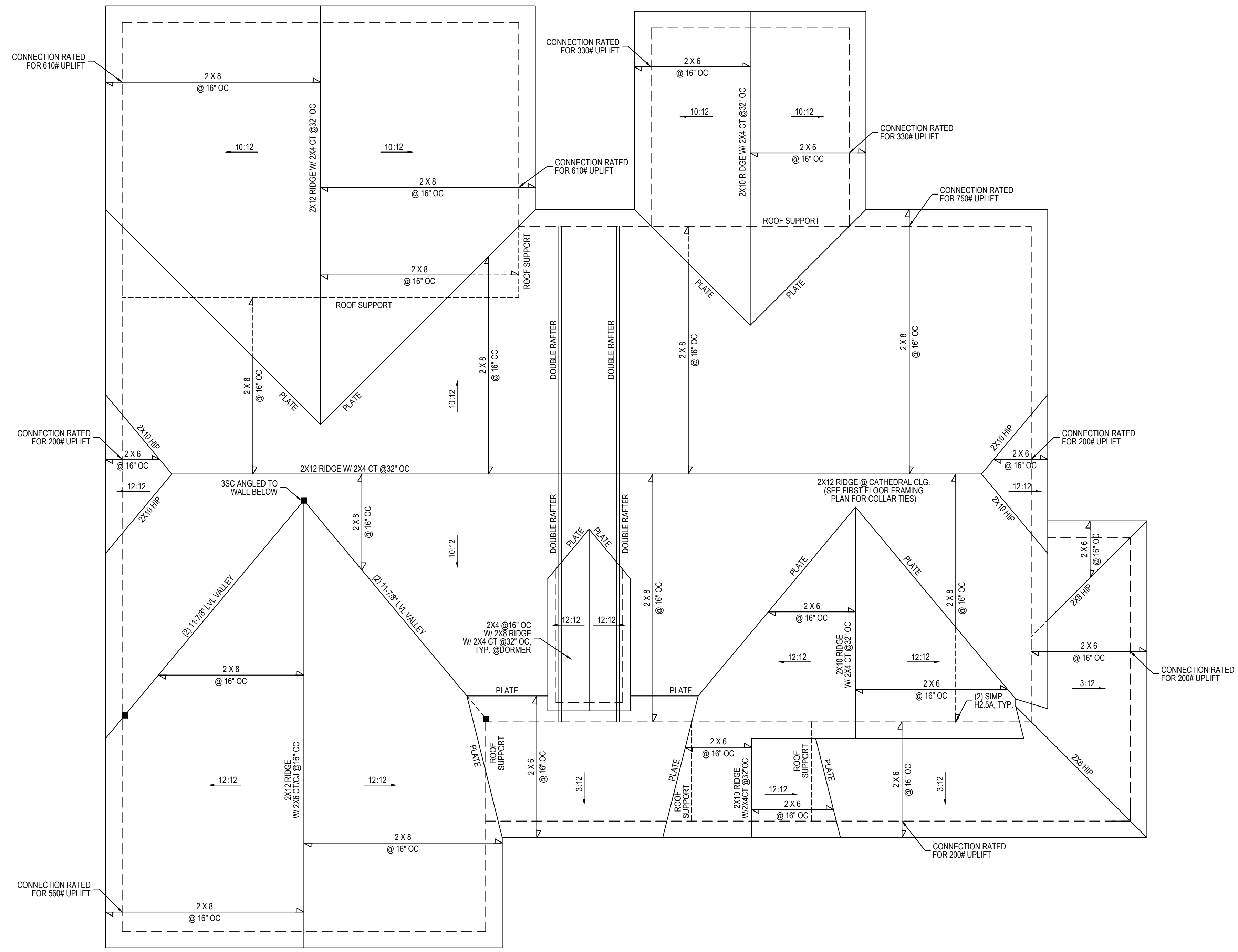
Client: **STANCIL BUILDERS**  
Project: **DK 1697 - GARAGE LEFT**

# ROOF PLAN

Project #: 1801-010027  
Date: 06/30/20  
Drawn/Design By: JTT  
DWG. Checked By: PAT  
Scale: SEE PLAN

REVISIONS		
No.	Date	Remarks

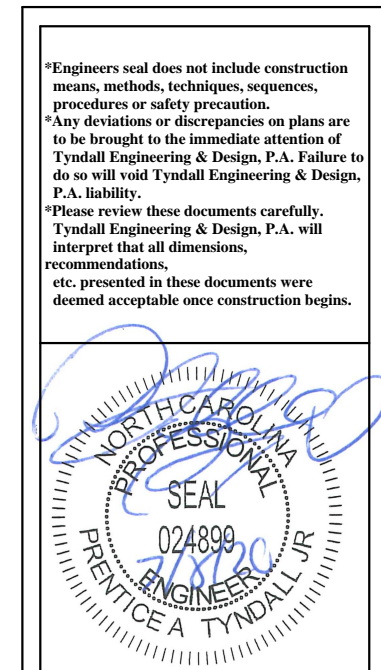
Sheet Number  
**S4**  
5 of 8



**ROOF PLAN**  
1/4" = 1'-0"

FILENAME: Z:\RESIDENTIAL ENVS\2018 STRUCTURAL PROJECTS\1801-010027 - STANCIL BUILDERS - PLAN DK 1697A-4-20\1801-010027 UPDATE LEFT/DWG SWED BY: JOHNNY LAST FLAT DATE: 7/2/2020 4:04 PM





**TYNDAL**  
ENGINEERING & DESIGN, P.A.  
100 Blawieck Drive • Cary, NC 27513  
919.776.5000 • 919.776.5111  
www.tyndalengineering.com

STANCIL BUILDERS  
DK 1697 - GARAGE LEFT

STANDARD  
DETAILS

Project #: 1801-010027  
Date: 06/30/20  
Drawn/Design By: JTT  
PAT  
DWG. Checked By: PAT  
Scale: SEE PLAN

No.	Date	Remarks

Sheet Number  
**D1**  
6 of 8

- STRUCTURAL NOTES**
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.
  - DESIGN LOADS:
 

	LINE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION
ALL FLOORS	40	10	L/240
ALL FLOORS (w/ work up stairs)	30	10	L/240
ATTIC (w/ work up access)	20	10	L/240
ATTIC (no access)	10	5	L/240
EXTERNAL BALCONY	60	10	L/240
ROOF	20	10	L/180
ROOF TRUSS	20	20	L/240

 WIND LOAD [BASED ON 150 MPH (ULTIMATE)]
  - MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF
  - CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF FIVE INCHES UNLESS NOTED OTHERWISE (U.N.O.)
  - MAXIMUM DEPTH OF UNBALANCED FULL AGAINST FOUNDATION WALLS TO BE LESS THAN 4"-0" WITHOUT USING SUFFICIENT WALL BRACING. REFER TO SECTION 4044 OF 2018 NC BUILDING CODE FOR BACKFILL LIMITATIONS BASED ON WALL HEIGHT, WALL THICKNESS, SOIL TYPE, AND UNBALANCED BACKFILL HEIGHT.
  - ALL FRAMING LUMBER SHALL BE SYP #2 (F = 800 PSI, BASED ON 2x10) UNO. ALL FRAMING LUMBER EXPOSED TO THE ELEMENTS SHALL BE TREATED MATERIAL. ALL LVL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND F = 2600 PSI, E = 1.0M PSI (U.N.O.) ALL LVL LUMBER TO BE 3.5" WIDE NOMINAL EACH SINGLE MEMBER AND F = 2325 PSI, E = 1.8M PSI (U.N.O.) ALL PS LUMBER TO BE 3.5" WIDE NOMINAL EACH SINGLE MEMBER AND F = 2400 PSI, E = 1.8M PSI (U.N.O.)
  - ALL LOAD BEARING EXTERIOR HEADERS SHALL BE (2) 2x4 (U.N.O.) REFER TO TABLE 4002.7(1) & (2) FOR JACK STUD REQUIREMENTS FOR HEADER TIEBACKS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS UNLESS SPECIFICALLY NOTED ON PLANS.
  - ALL STRUCTURAL STEEL W-SHAPES (I-BEAMS) SHALL BE ASTM A992 GRADE 50. ALL STEEL ANGLES, PLATES, AND C-CHANNELS SHALL BE ASTM A36.
  - STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3-1/2" AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO (2) LAG SCREWS (1/2" x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDED THE JOISTS ARE TOE NAIL TO THE SOLE PLATES, AND THE SOLE PLATES ARE NAILED OR BOLTED TO THE BEAM FLANGES @ 48" O.C.
  - FOUNDATION DRAINAGE-DAMP PROOFING OR WATERPROOFING PER SECTION 4005 AND 406 OF NC BUILDING CODE.
  - FOR ROOF SLOPES FROM 2/12 THROUGH 4/12, BUILDER TO INSTALL 2 LAYERS OF 15# FELT PAPER.
  - REFER TO TABLE N1102.1 FOR PRESCRIPTIVE BUILDING ENVELOPE THERMAL COMPONENT CRITERIA.
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALE ENGINEERING & DESIGN, P.A. IS NOT RESPONSIBLE FOR DIMENSION OR SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.

- NC 2018 BUILDING CODE HIGH WIND ZONE REQUIREMENTS**
- ROOF REQUIREMENTS PER TABLE 4004.2 AND/OR AS SPECIFIED BY TRUSS MANUFACTURER
  - FOUNDATION WALLS AND FOOTINGS PER SECTIONS 4003 & 4004
  - FOUNDATION ANCHOR REQUIREMENTS PER SECTION 4004.2
  - DESIGN PRESSURE FOR GARAGE AND WINDOWS FOR SECTION 4002(4)
  - DESIGN PRESSURE FOR GARAGE FOR SECTION 4002(4)
  - WALL CONSTRUCTION SHALL CONFORM TO SECTION 4005
  - STRUCTURAL BRACING SHALL CONFORM TO SECTION 4006
  - PILE CONSTRUCTION AND BRACING SHALL CONFORM TO SECTION 4003.4 AND 4003.8

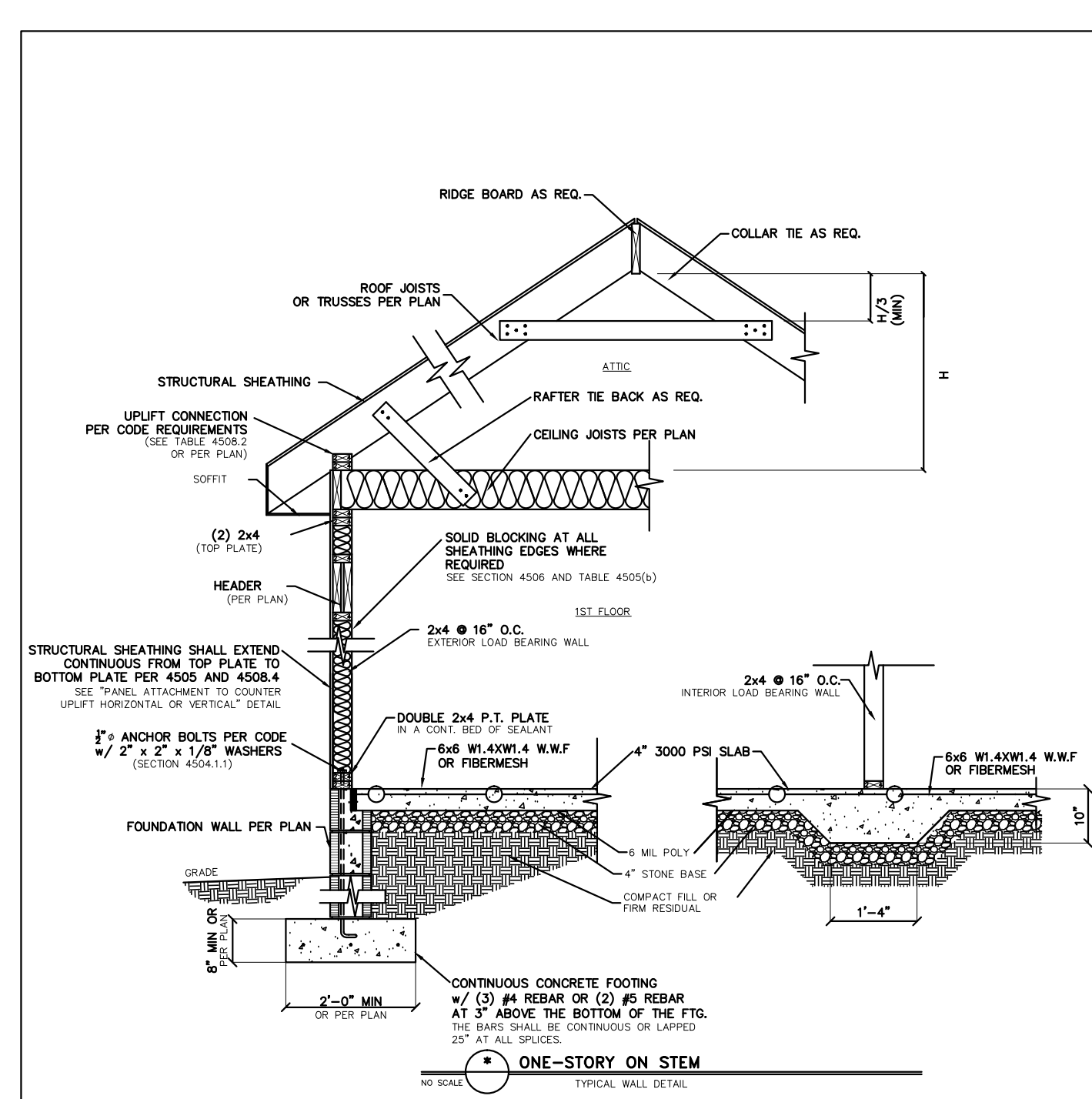
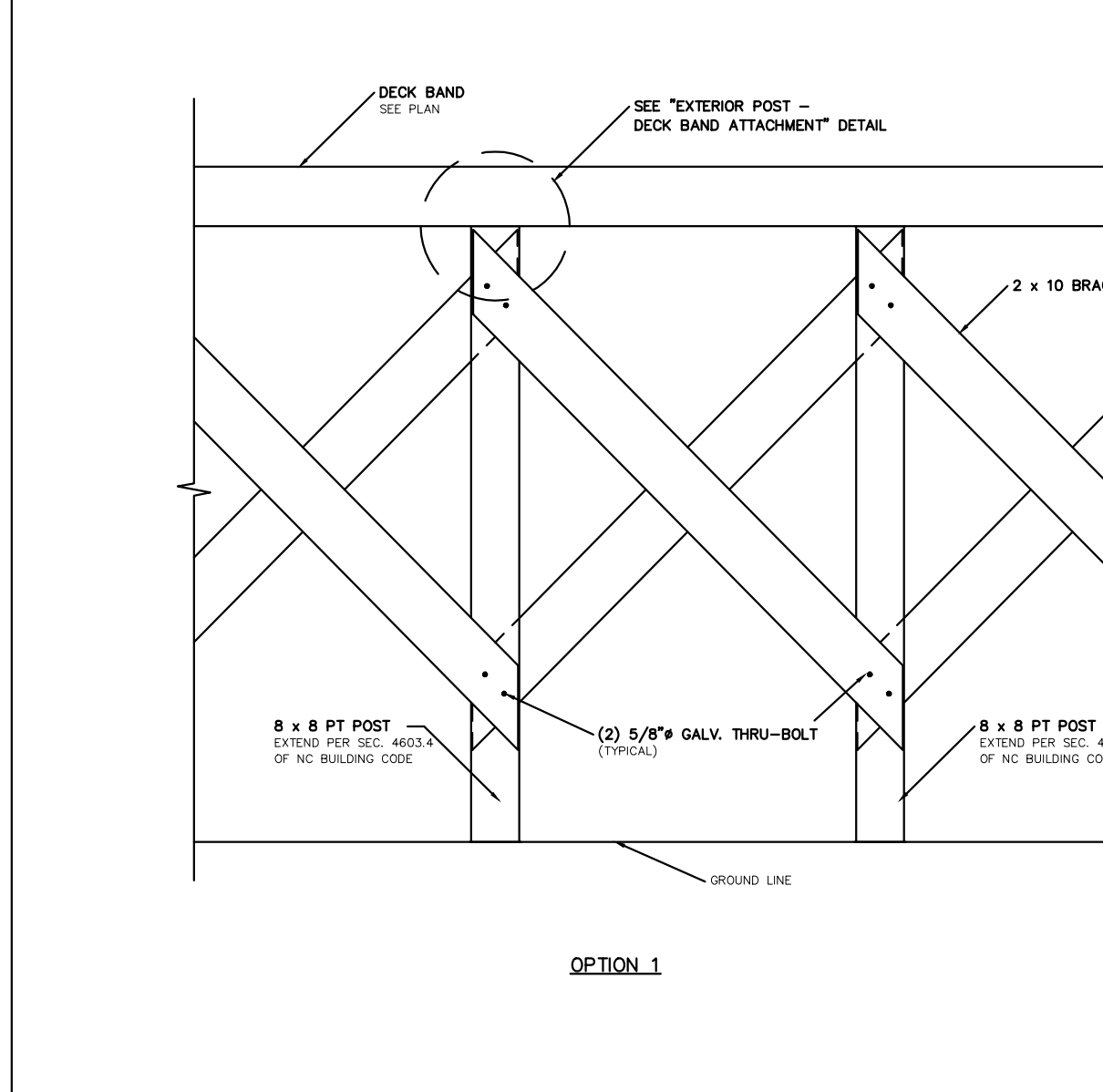
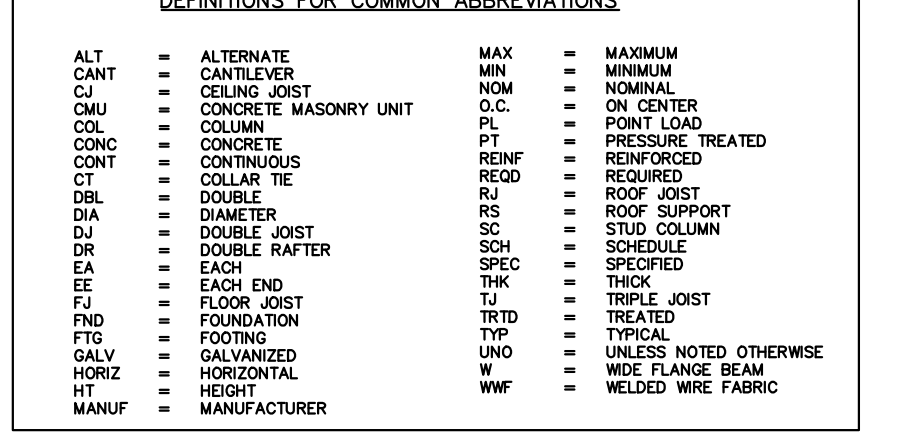
**TABLE N1102.1 CLIMATE ZONES 3-5**

CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALUE	WOOD FRAMED WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT FLOOR R-VALUE	SLAB R-VALUE AND DEPTH	DRAWN SPACE R-VALUE
3	0.35	0.55	0.30	38 or 30	13 or 13 + 2.5"	5/13 or 2/10	19	22/33	0	5/13
4	0.35	0.55	0.30	38 or 30	15 or 13 + 2.5"	5/13 or 2/10	19	10/15	10	10/15
5	0.35	0.55	NR	38 or 30	15 or 13 + 2.5"	5/13 or 2/10	30"	10/15	10	10/15

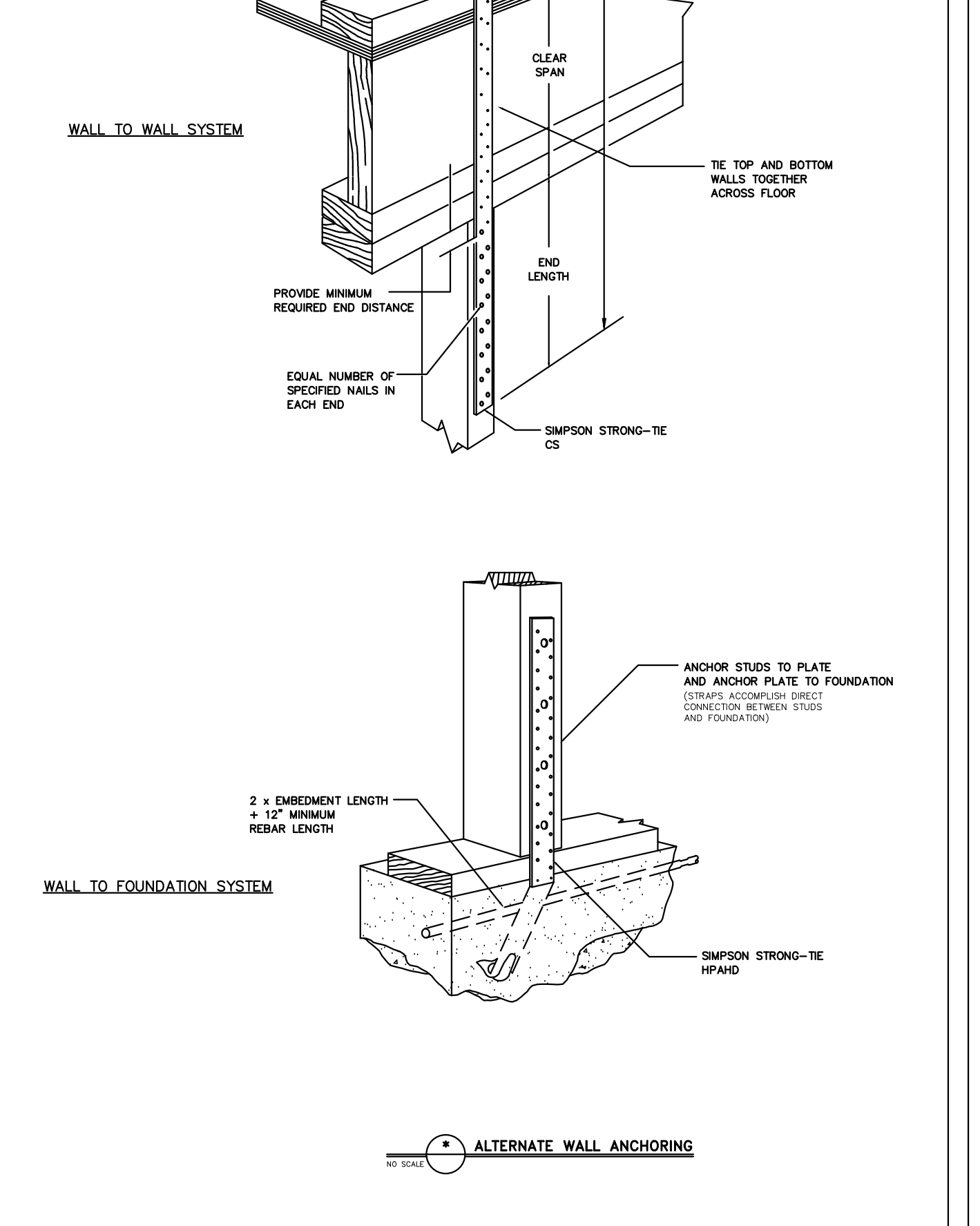
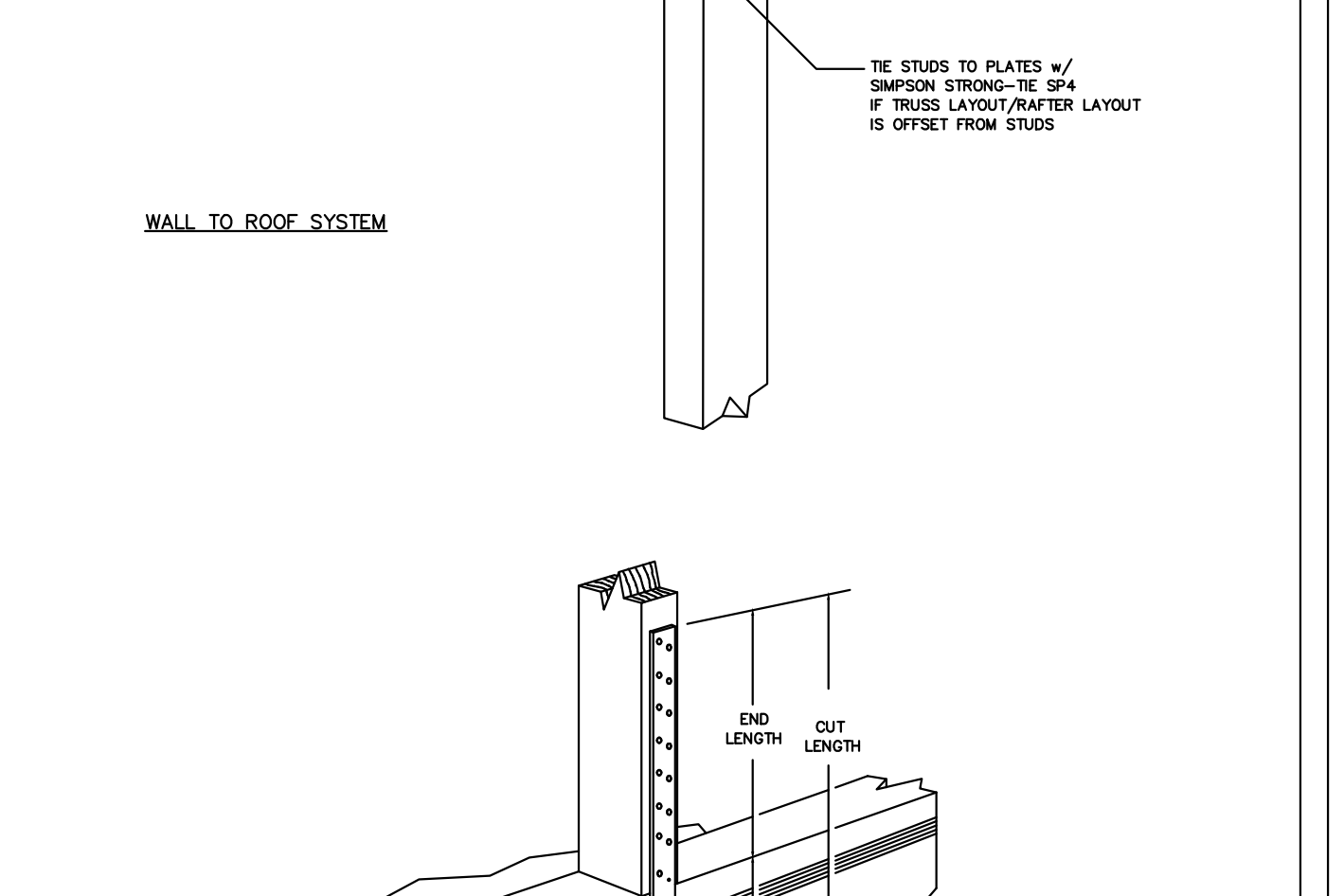
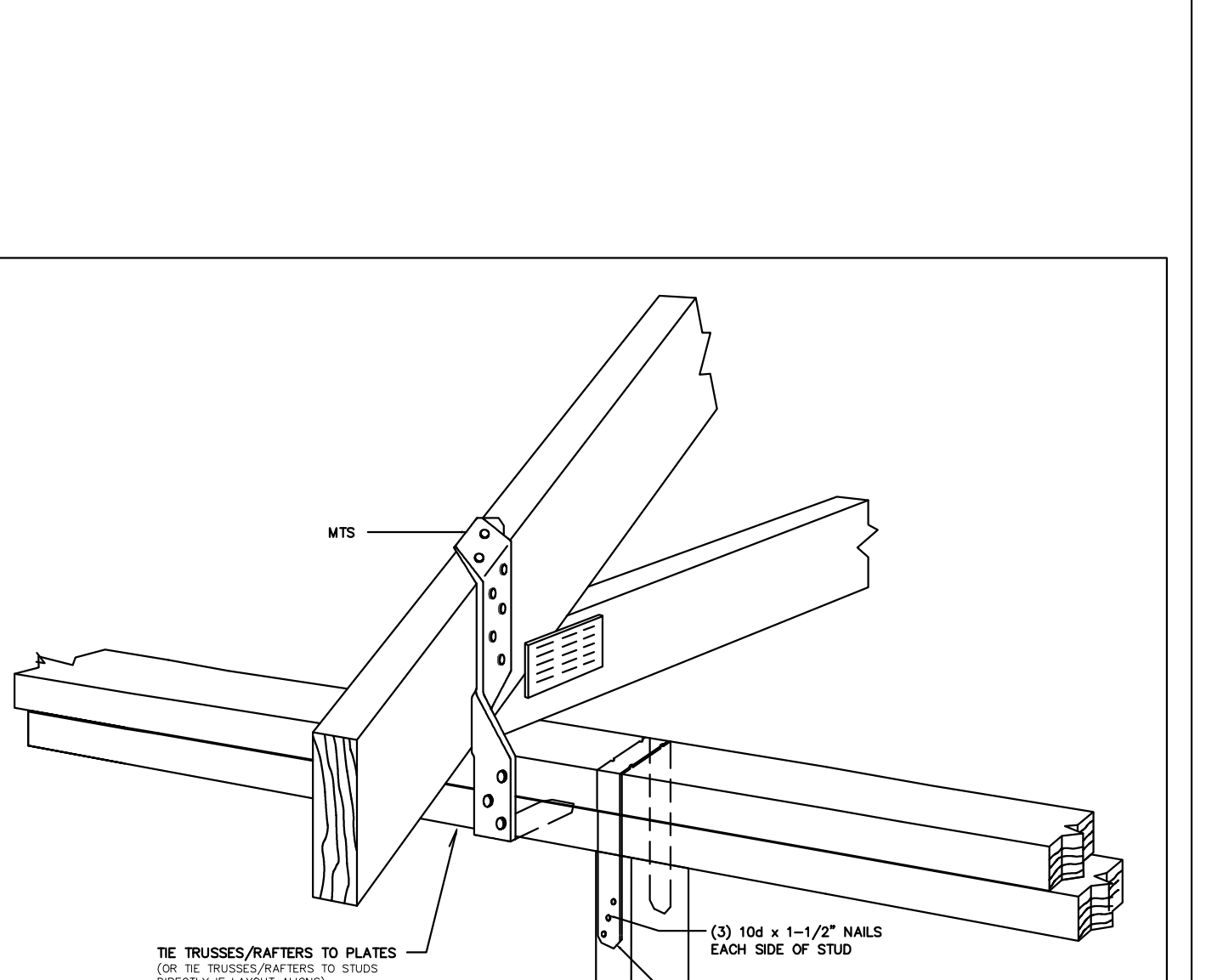
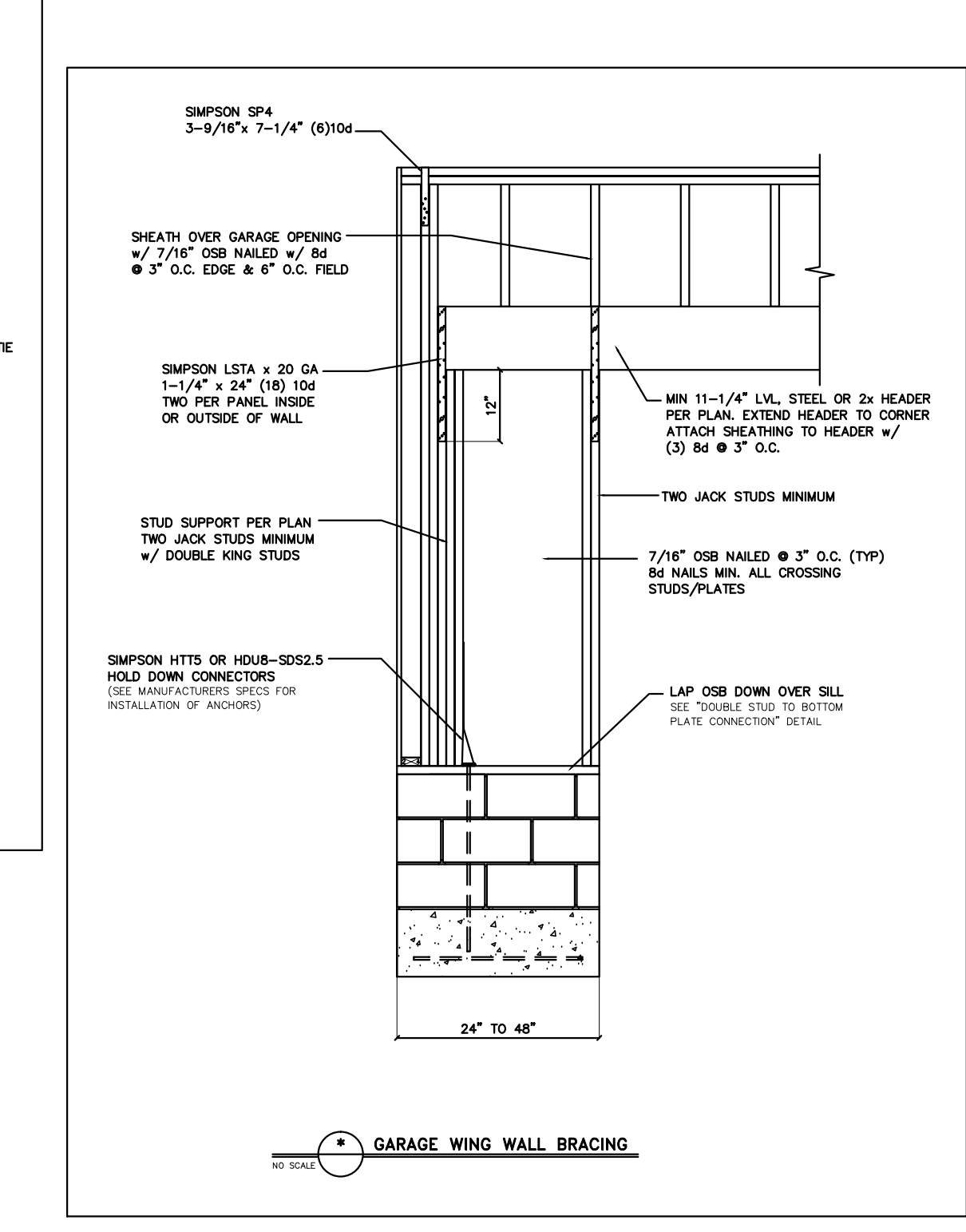
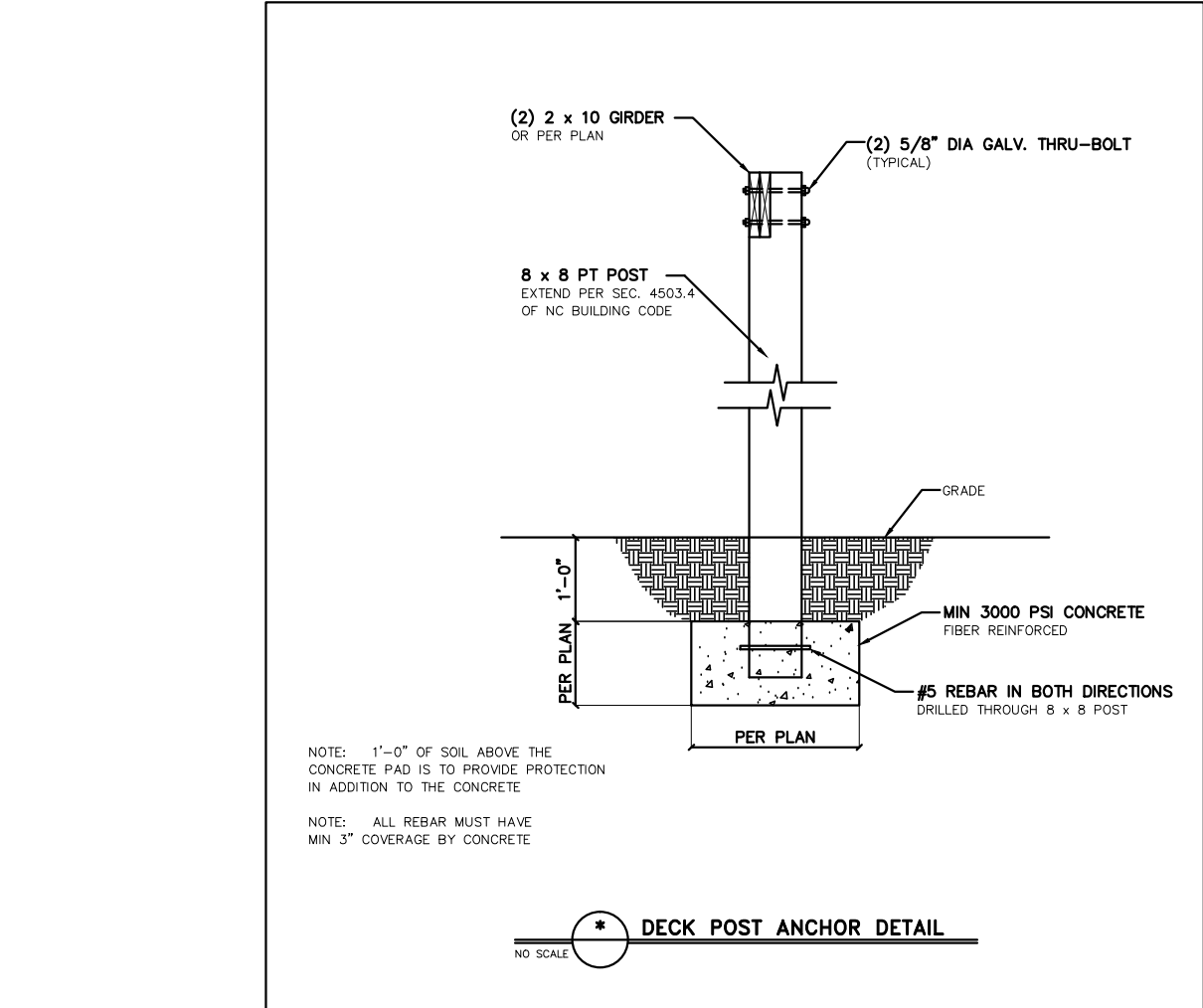
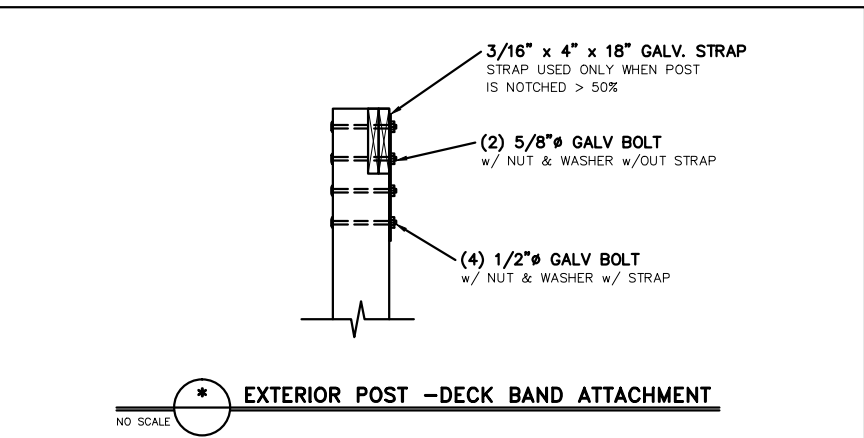
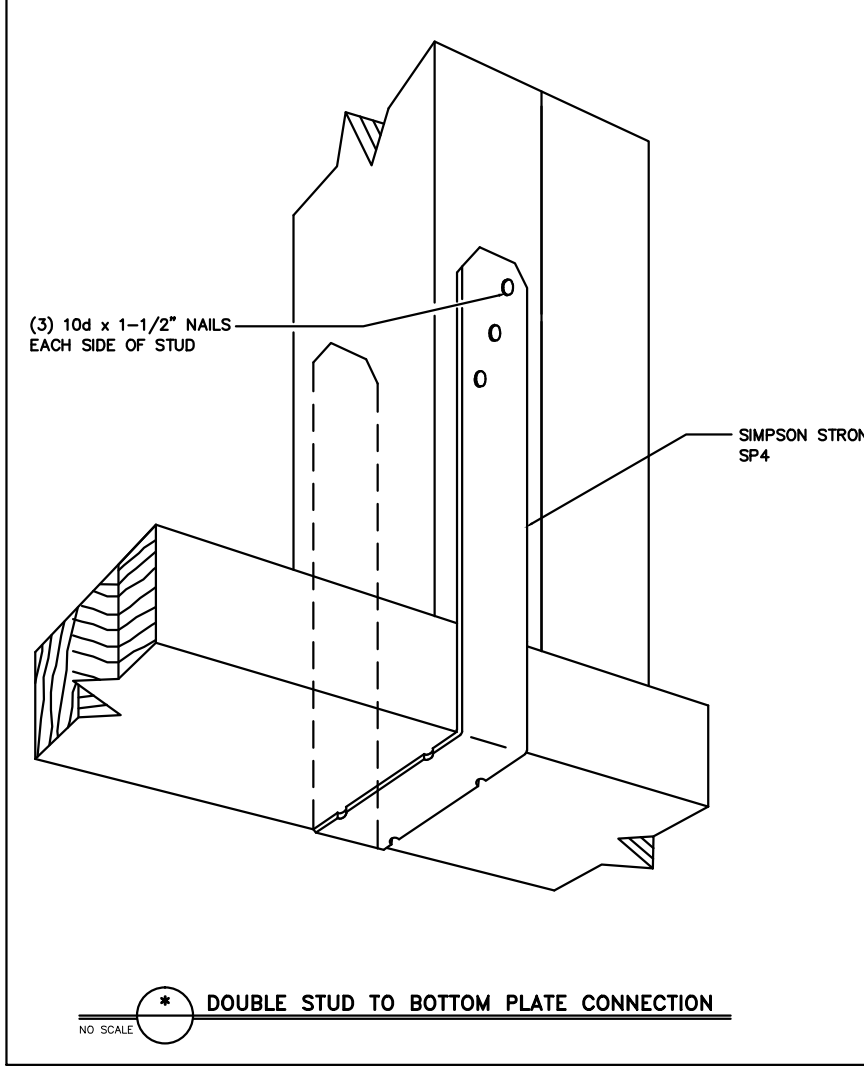
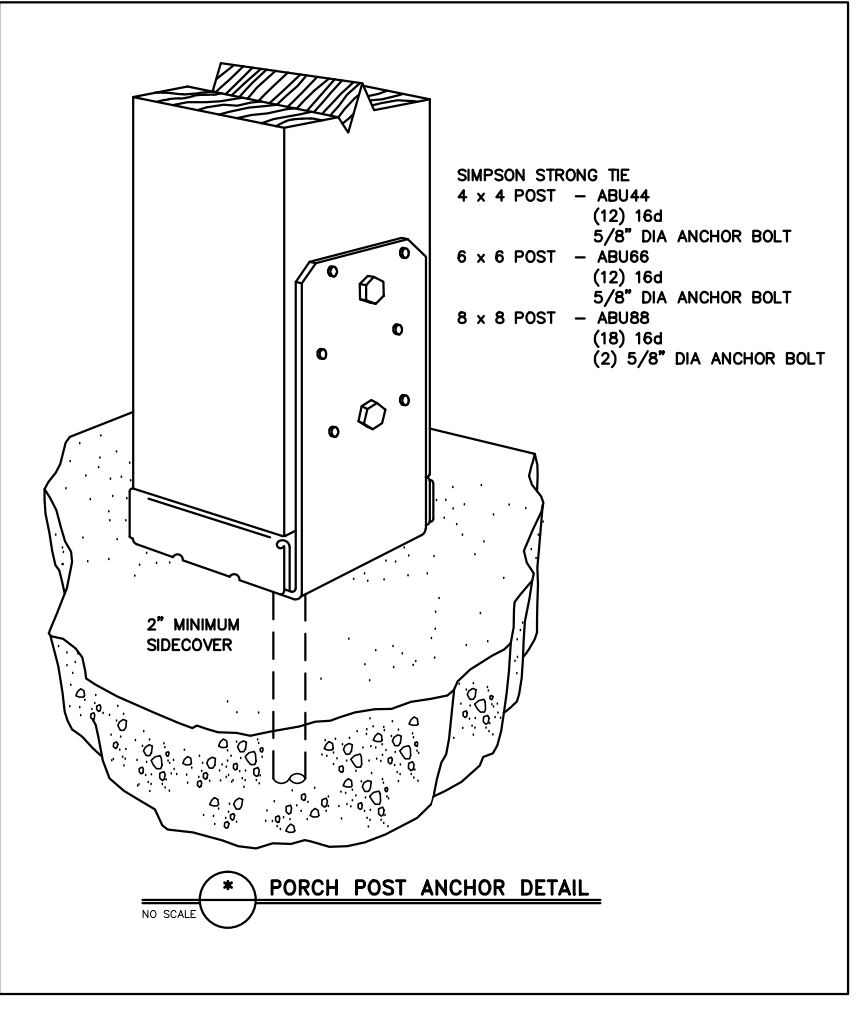
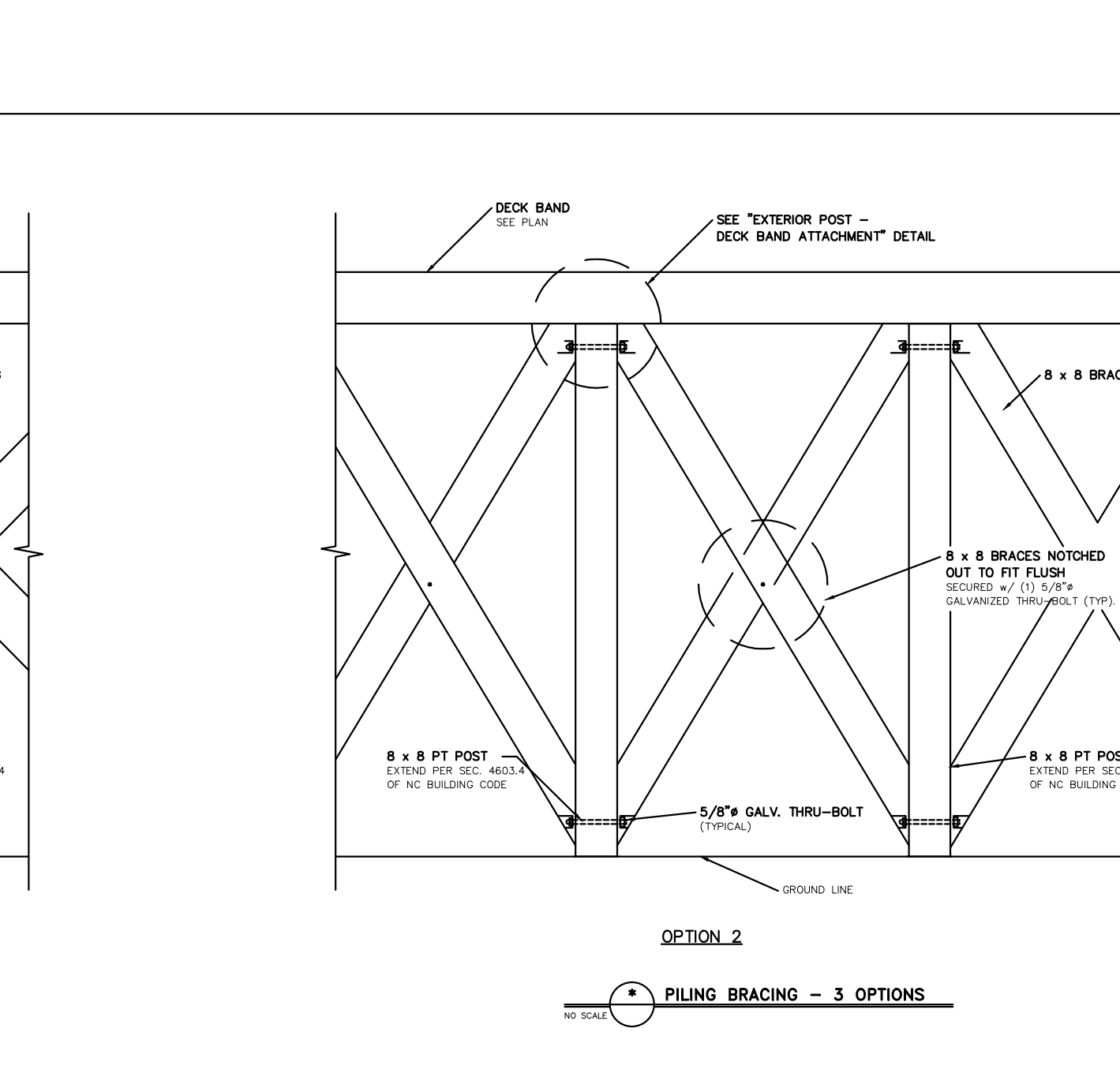
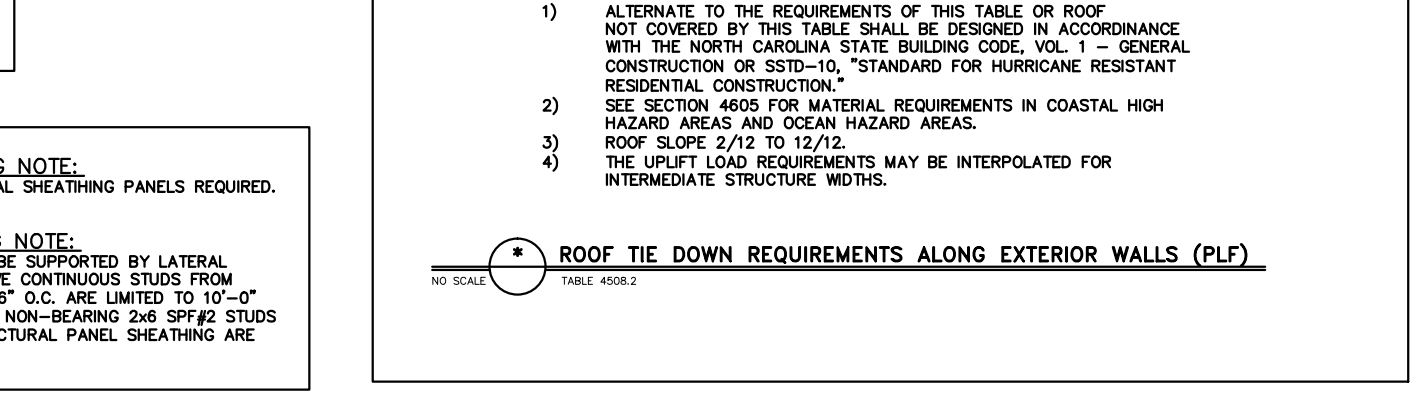
- DEFINITIONS FOR COMMON ABBREVIATIONS**
- |                             |                              |
|-----------------------------|------------------------------|
| ALT = ALTERNATE             | MAX = MAXIMUM                |
| CANT = CANTILEVER           | MIN = MINIMUM                |
| CEJ = CEILING JOIST         | NOM = NOMINAL                |
| CMU = CONCRETE MASONRY UNIT | ON CENTER = ON CENTER        |
| COL = COLUMN                | P.L. = POINT LOAD            |
| CONC = CONCRETE             | REF = REINFORCED             |
| CONT = CONTINUOUS           | ROOF = ROOF                  |
| CT = COLLAR TIE             | ROOF JOIST = ROOF JOIST      |
| DBL = DOUBLE                | ROOF SUPPORT = ROOF SUPPORT  |
| DIAM = DIAMETER             | SC = STUD COLUMN             |
| DR = DOUBLE RAFTER          | SPC = SPECIFIED              |
| EA = EACH                   | TR = TRIPLE JOIST            |
| EE = EACH END               | TRD = TRIPLED                |
| FND = FOUNDATION            | TYP = TYPICAL                |
| FTG = FOOTING               | UNO = UNLESS NOTED OTHERWISE |
| GALV = GALVANIZED           | W = WIDE FLANGE BEAM         |
| HORIZ = HORIZONTAL          | WELD = WELDED WIRE FABRIC    |
| MANUF = MANUFACTURER        |                              |

**HIGH WIND WALL BRACING NOTE:**  
ALL STORES - WOOD STRUCTURAL SHEATHING PANELS REQUIRED.

**CABLE ENDWALL BRACING NOTE:**  
CABLE ENDWALLS SHALL EITHER BE SUPPORTED BY LATERAL BRACING AT THE CEILING OR HAVE CONTINUOUS STUDS FROM FLOOR TO ROOF. 2x4 STUDS @ 16" O.C. ARE LIMITED TO 10'-0" IN LENGTH BETWEEN SUPPORTS. NON-BEARING 2x4 STUDS @ 16" O.C. w/ 3/8" WOOD STRUCTURAL PANEL SHEATHING ARE LIMITED TO 14'-0" (TYP).



WIND SPEED (MPH)	STRUCTURE WIDTH
130	24 FEET
140	240
140	330
150	430
150	615





Engineers and designers do not include construction means, methods, techniques, sequences, procedures or safety precautions. Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. liability. Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.

**TYNDALL**  
ENGINEERING & DESIGN, P.A.  
10075-1500 • 404-775-7444  
400 Blawieck Drive • Cary, NC • 27513  
www.tyndallengineering.com

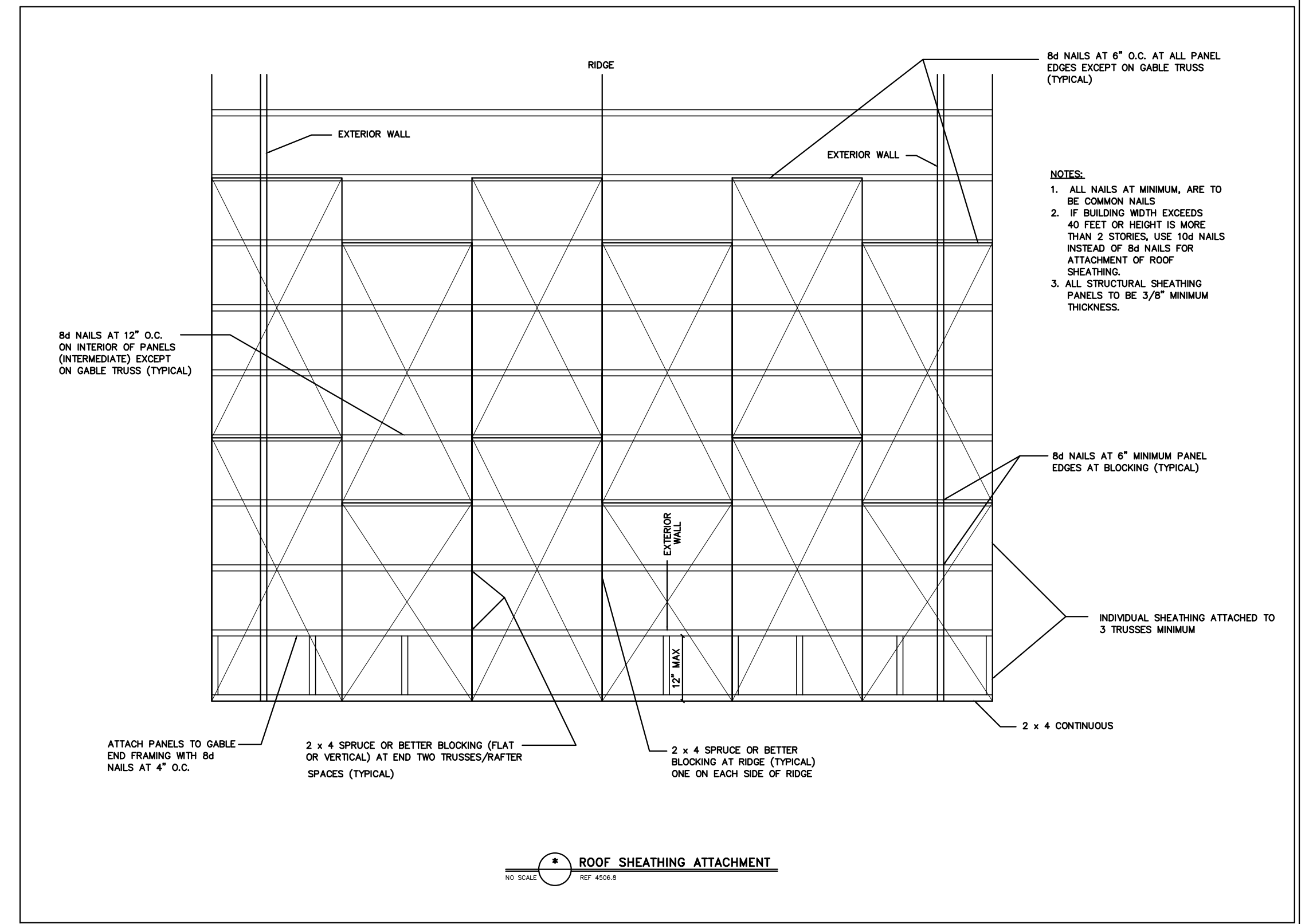
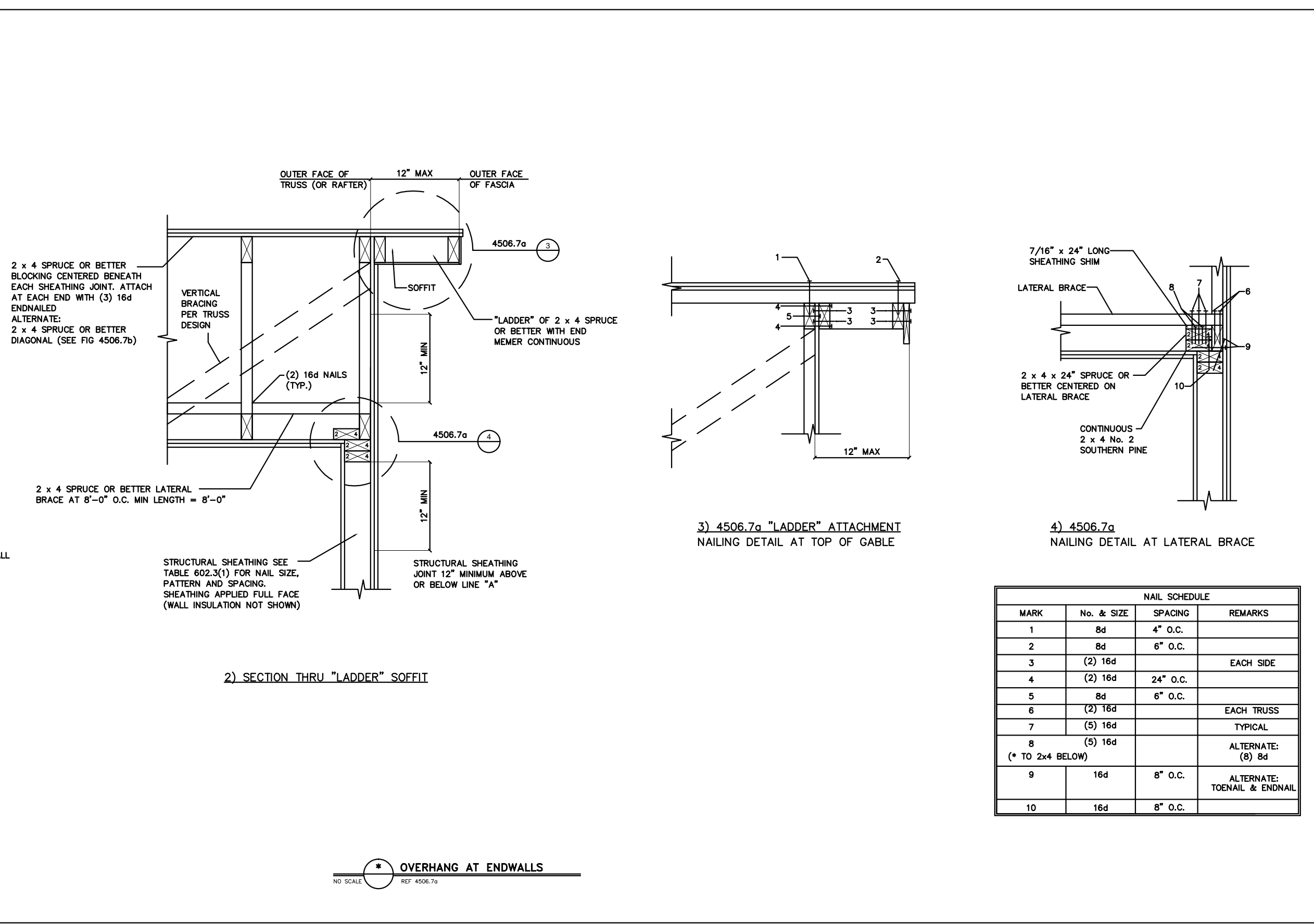
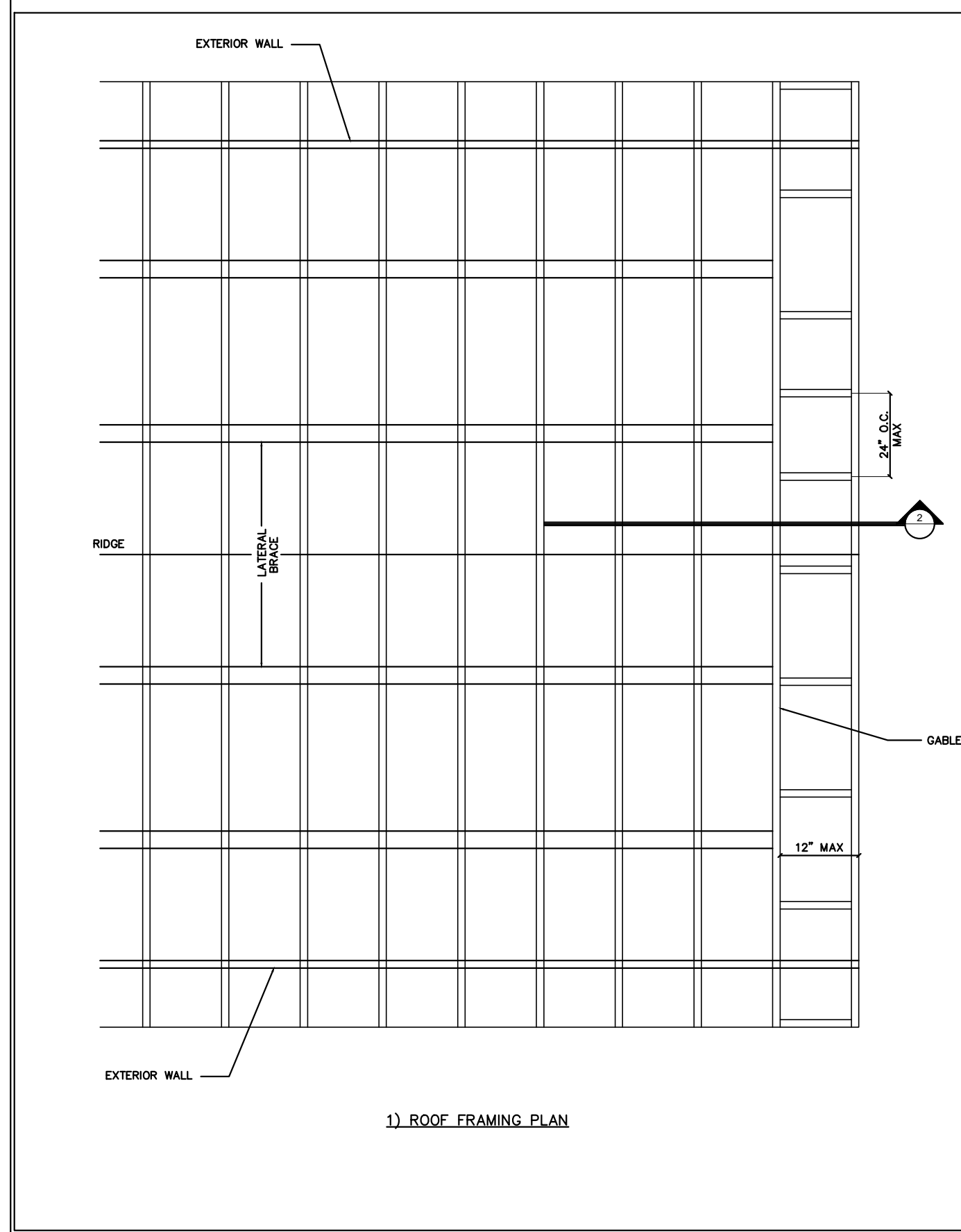
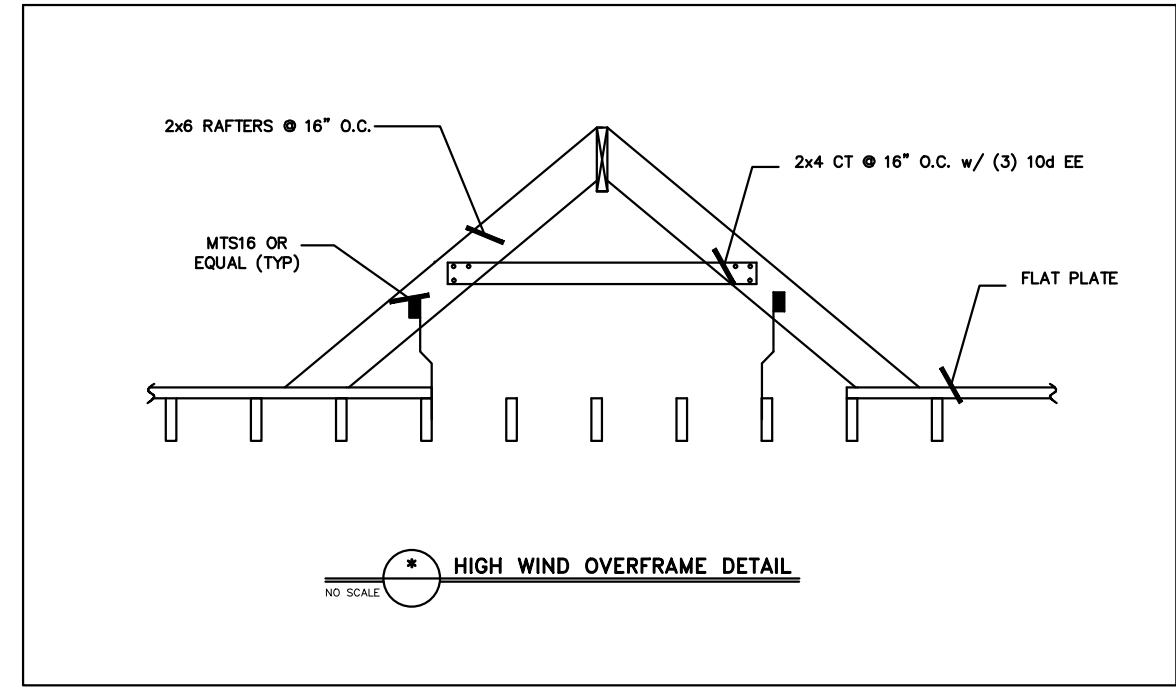
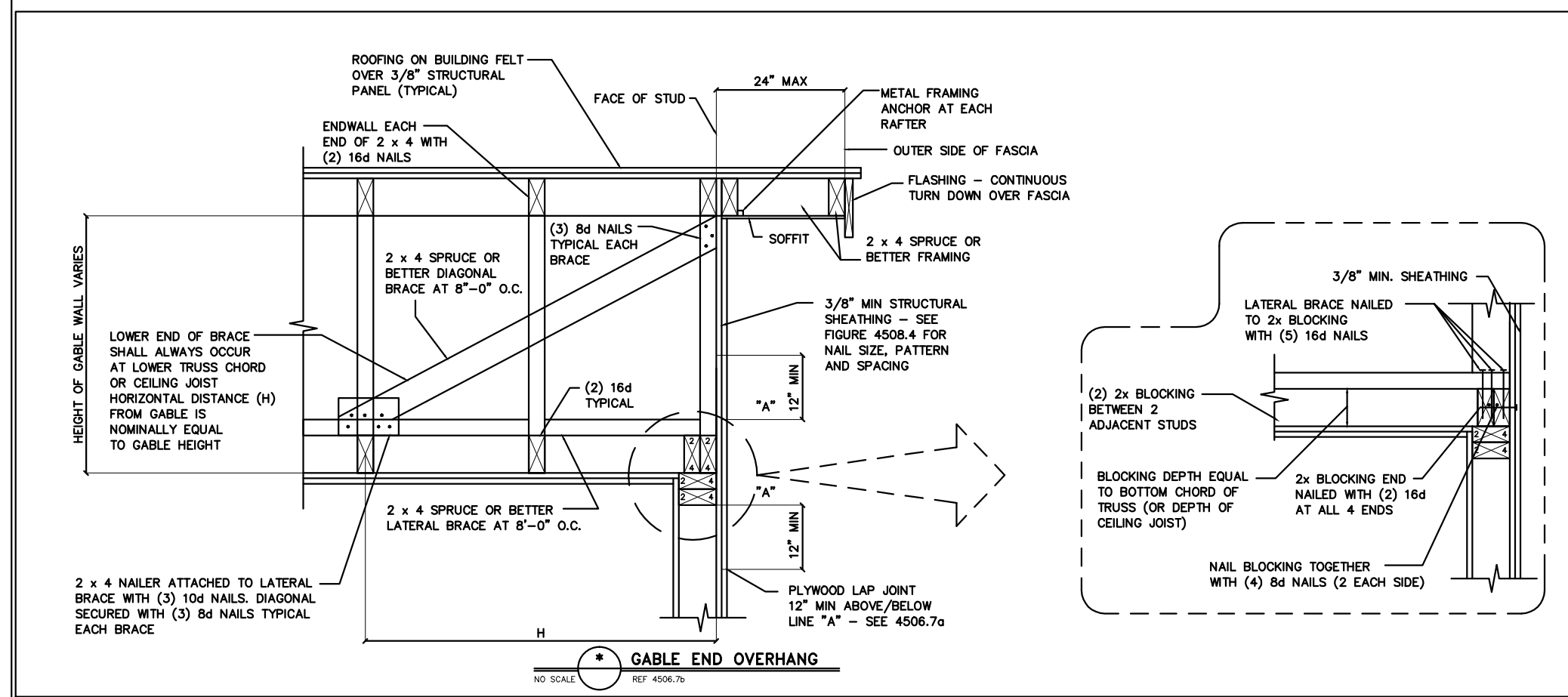
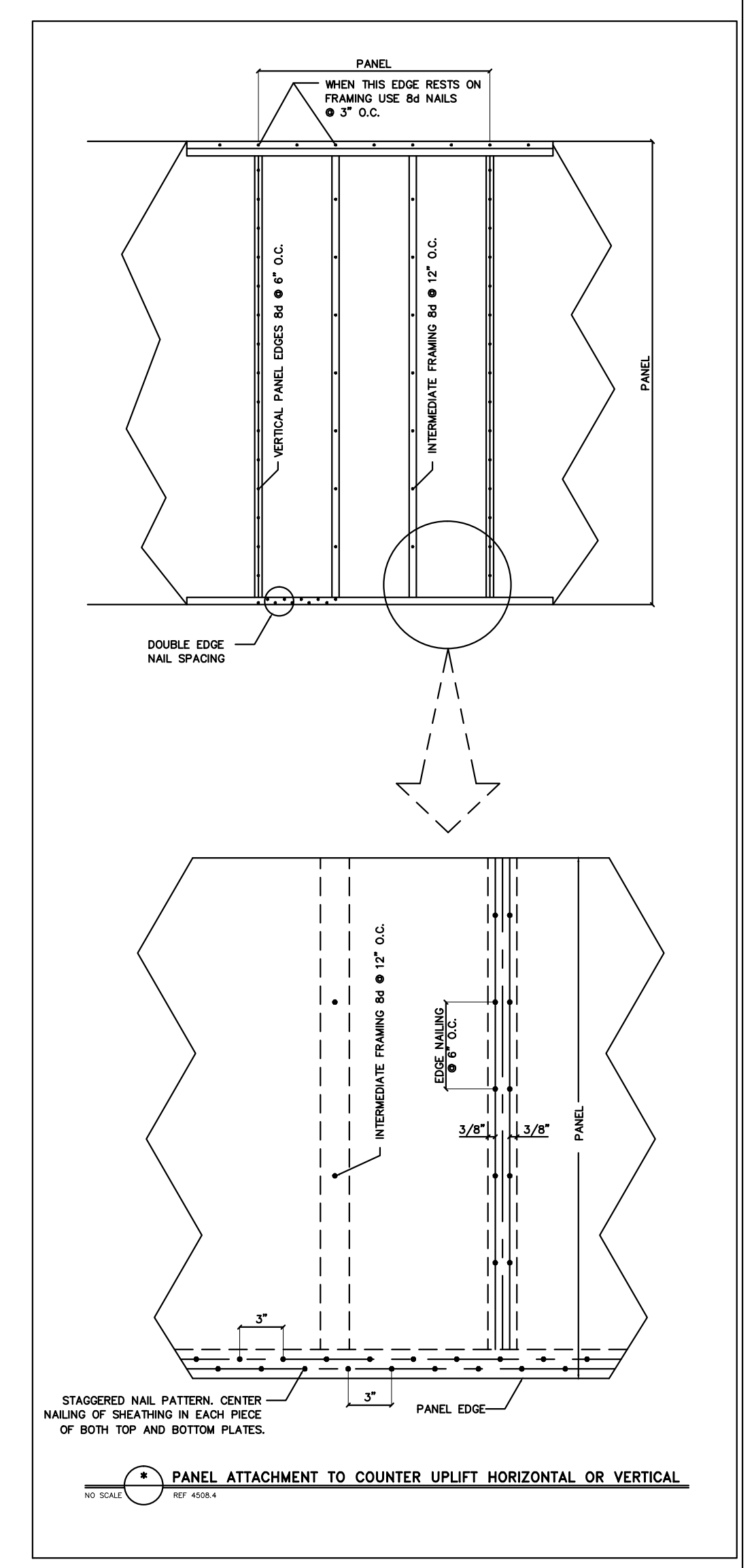
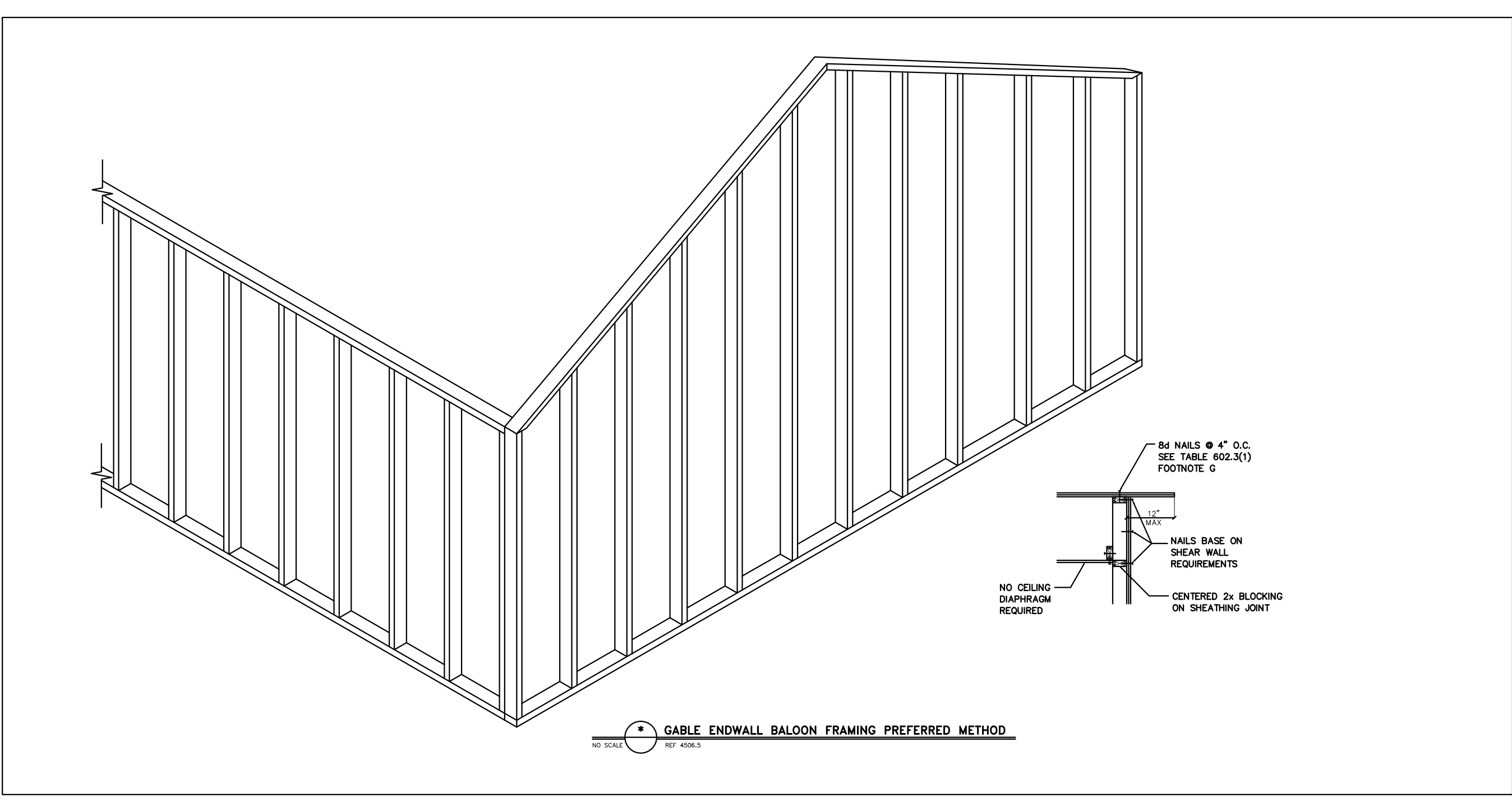
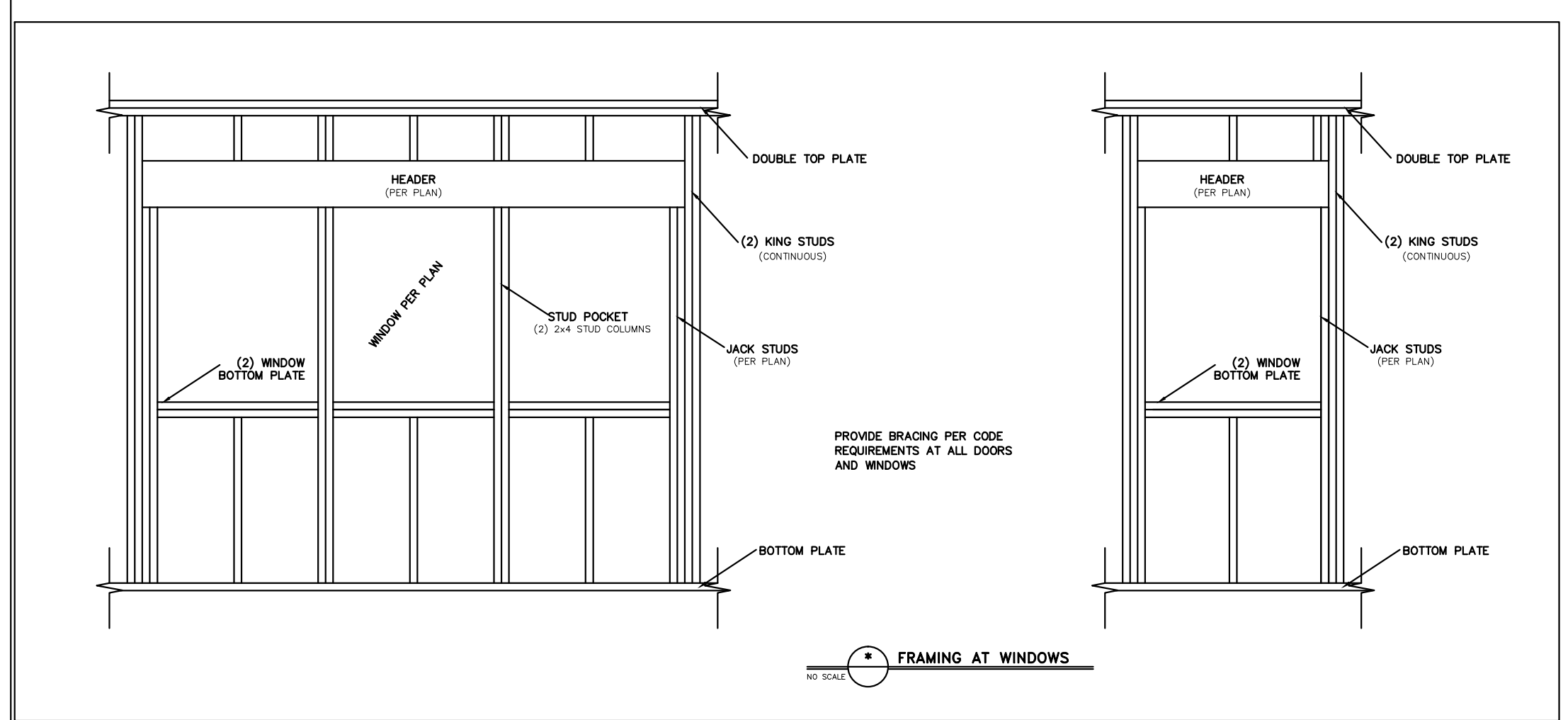
STANCL BUILDERS  
DK 1697 - GARAGE LEFT

**STANDARD DETAILS**

Project #: 1801-010027  
Date: 06/30/20  
Drawn/Design By: JTT  
DWG. Checked By: PAT  
Scale: SEE PLAN  
**REVISIONS**

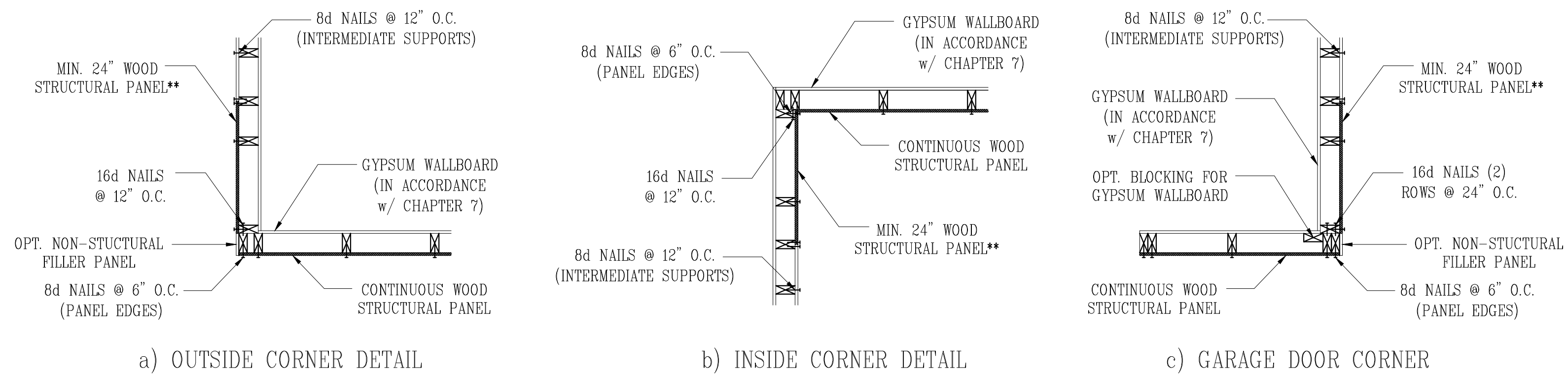
No.	Date	Remarks

Sheet Number  
**D2**  
7 of 8



MARK	No. & SIZE	SPACING	REMARKS
1	8d	4\"/>	





a) OUTSIDE CORNER DETAIL      b) INSIDE CORNER DETAIL      c) GARAGE DOOR CORNER

\*\* IN LIEU OF THE 24" (MIN.) CORNER RETURN, A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE CORNER STUD AND TO THE FOUNDATION OR FRAMING BELOW.

**B1: TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING**  
NO SCALE

**STRUCTURAL SHEATHING NOTES**

- DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 150 MPH OR LESS.
- WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF THE 2018 NC RESIDENTIAL CODE AND R4506 OF THE 2018 INTERNATIONAL RESIDENTIAL CODE, ICC600-2014, AND FEMA 55.
- BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3. REFER TO SECTION R602.10.4 FOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS.
  - REFERENCE FIGURE R602.10.4.3 OF THE 2018 NCRC.
- INTERIOR BRACED WALL PANELS (BWP) INDICATED SHALL BE SHEATHED IN ACCORDANCE WITH THE GB METHOD OR WSP METHOD AS PRESCRIBED IN SECTION R602.10.1 (UNO)
  - 1/2" GYPSUM BOARD (GB) MINIMUM LENGTH OF 8'-0" (ISOLATED PANELS) OR 4'-0" (CONTINUOUS SHEATHING). SECURE W/ 5d COOLER NAILS (OR EQUAL PER TABLE R702.3.5) SPACED @ 7" O.C. AT PANEL EDGES, INCLUDING TOP AND BOTTOM PLATES & 7" O.C. AT INTERMEDIATE SUPPORTS.
  - 3/8" WOOD STRUCTURAL PANEL (WSP) SECURE W/ 6d COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS.
- EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION R602.10.3 (UNO)
- ALL SHEATHABLE SURFACES OF EXTERIOR WALLS (INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS) SHALL BE CONTINUOUSLY SHEATHED WITH WOOD STRUCTURAL PANEL (WSP) SHEATHING WITH A MINIMUM THICKNESS OF 3/8". SHEATHING SHALL BE SECURED PER TABLE R4506.2 (UNO)
- BLOCKING SHALL BE INSTALLED IF LESS THAN 50 PERCENT OF THE WALL LENGTH IS SHEATHED. WHERE BLOCKING IS REQUIRED, ALL PANELS SHALL BE FASTENED PER TABLE R4506.2 (UNO)
- MINIMUM BRACED WALL PANEL LENGTHS WITH CS-WSP METHOD SHALL BE AS FOLLOWS:
  - 24" ADJACENT TO OPENINGS NOT MORE THAN 67% OF WALL HEIGHT
  - 30" ADJACENT TO OPENINGS GREATER THAN 67% AND LESS THAN 85% OF WALL HEIGHT
  - 48" FOR OPENINGS GREATER THAN 85% OF WALL HEIGHT
- SHEATH INTERIOR & EXTERIOR
- FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER RETURN SHALL BE PROVIDED AT BOTH ENDS OF A BRACED WALL LINE IN ACCORDANCE WITH FIGURE R602.10.3(4). IN LIEU OF A CORNER RETURN, EITHER A MIN. 48" BRACED WALL PANEL SHALL BE PROVIDED AT THE CORNER OR A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FRAMING BELOW.
  - MINIMUM 800# HOLD-DOWN DEVICE

REQUIRED BRACED WALL PANEL CONNECTIONS				
METHOD	MATERIAL	MIN. THICKNESS	REQUIRED CONNECTION	
			@ PANEL EDGES	@ INTERMEDIATE SUPPORTS
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.
GB	GYPSUM BOARD	1/2"	5d COOLER NAIL** @ 7" O.C.	5d COOLER NAIL** @ 7" O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.

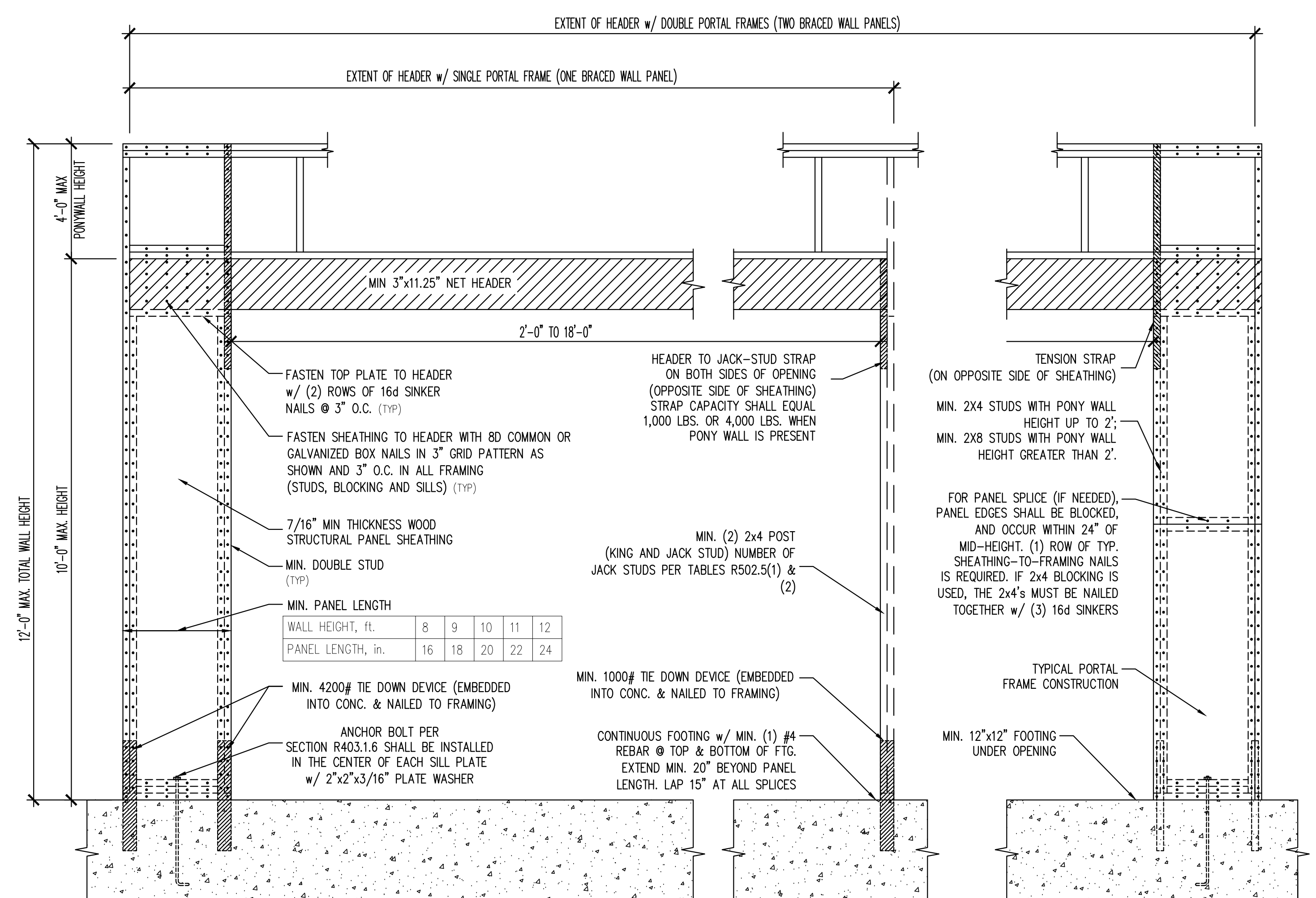
\*\*OR EQUIVALENT PER TABLE R702.3.5

**B3: BRACE WALL PANEL CONNECTIONS**  
NO SCALE

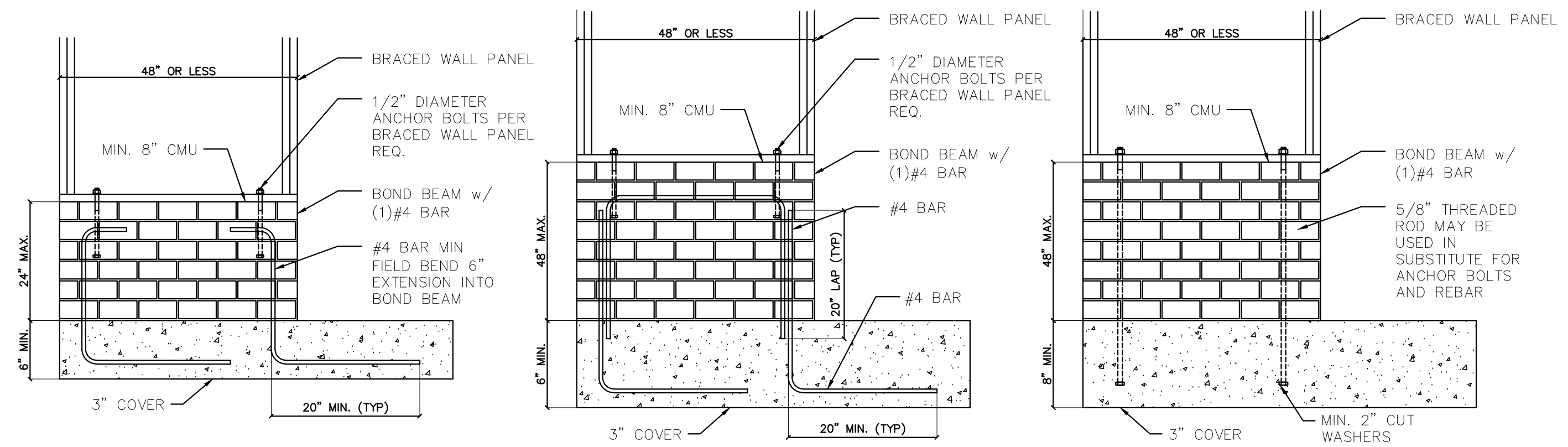
	REQUIRED BRACED WALL PANEL FASTENER SPACING*	
	BLOCKING REQUIRED	NO BLOCKING REQUIRED
CENTER OF PANEL	6"	12"
VERTICAL EDGE OF PANEL	6"	6"
HORIZONTAL EDGE OF PANEL	3"	3"

\* TABLE BASED ON 8d NAILS  
TABLE R4506.2

**B4: BRACE WALL PANEL FASTENER SPACING**  
NO SCALE

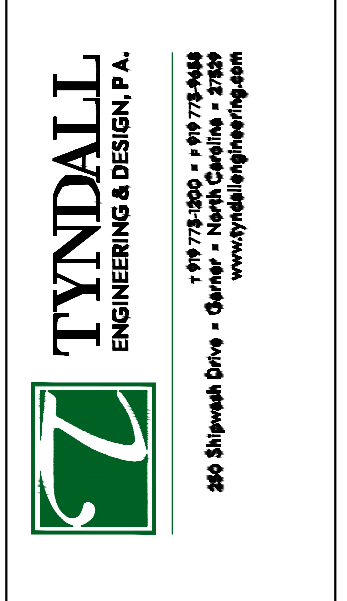


**B2: METHOD CS-PFH: PORTAL FRAME WITH HOLD DOWNS**  
FIGURE R602.10.6.2



**B5: MASONRY STEM WALL SUPPORTING BRACED WALL PANELS**  
FIGURE R602.10.9 OF THE IRC  
NOTE: GROUT BOND BEAMS AND ALL CELLS WHICH CONTAIN REBAR, THREADED RODS AND ANCHOR BOLTS

\*Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.  
Any deviation or discrepancy on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. liability.  
\*Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.



**TYNDALL**  
ENGINEERING & DESIGN, P.A.  
1801-010027 • 919-778-4444  
400 Blythewood Drive • Cary, NC • North Carolina • 27513  
www.tyndallengineering.com

STANCL BUILDERS  
DK 1697 - GARAGE LEFT

**SHEATHING DETAILS**

Project #:	1801-010027
Date:	06/30/20
Drawn/Design By:	JTT
DWG. Checked By:	PAT
Scale:	SEE PLAN

REVISIONS		
No.	Date	Remarks