

PLANS DESIGNED TO THE 2018 IRC WITH NORTH CAROLINA RESIDENTIAL CODE AMENDMENTS

HOUSE DESIGNED FOR 115 MPH, EXPOSURE B

ANCHOR BOLTS SHALL BE MIN. 1/2" DIAMETER & SHALL EXTEND A MINIMUM 7" INTO MASONRY OR CONCRETE. ANCHOR BOLTS TO BE NO MORE THAN 6' O.C. AND WITHIN 12" OF THE CORNER.

WALL BRACING IS PER THE PRESCRIPTIVE CONTINUOUS SHEATHING METHOD, (R602), PROVIDING MIN 7/16" OSB W/ 6" EDGE AND 12" FIELD FASTENING. SEE PAGE S-1 FOR MORE INFORMATION

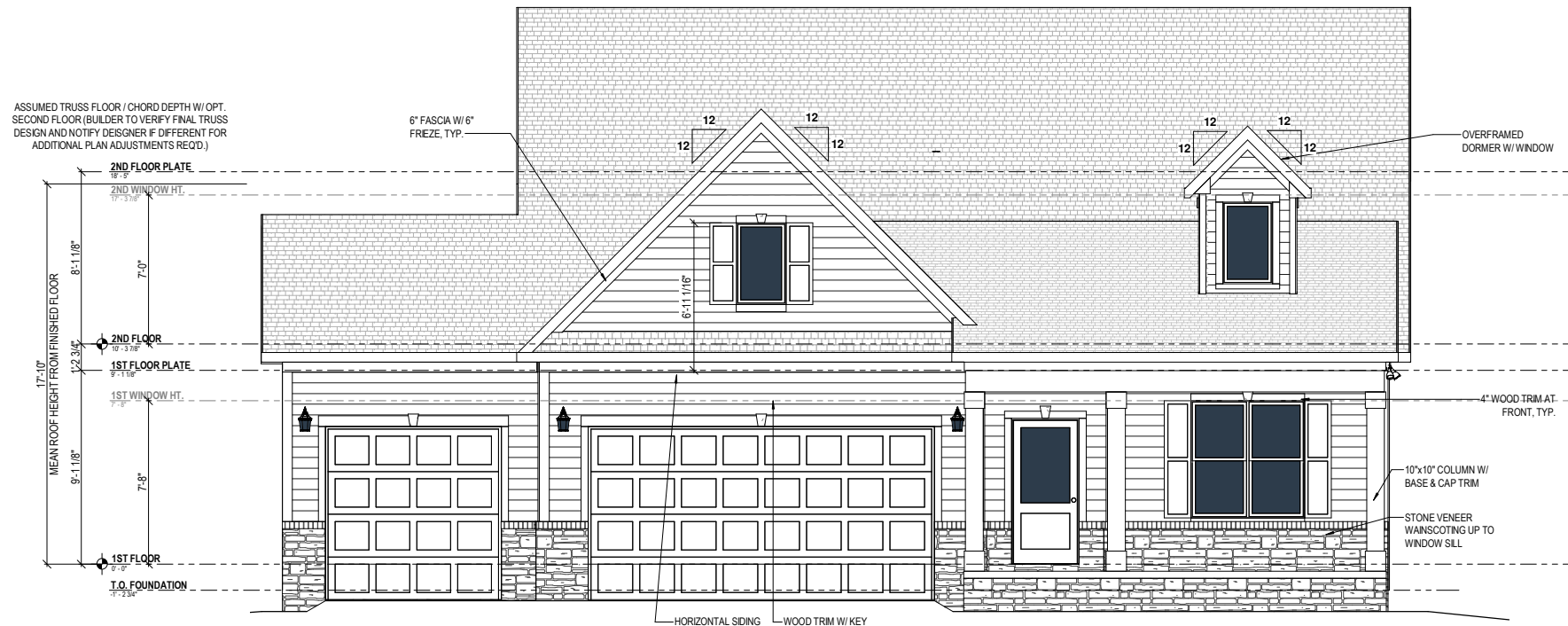
SIDING PER COMMUNITY REQUIREMENT. GUTTERS PER COMMUNITY REQUIREMENT.

Heated SQFT	
Description	Area
1st Floor Livable	2203 SF
2nd Floor Livable	709 SF
Total	2912 SF

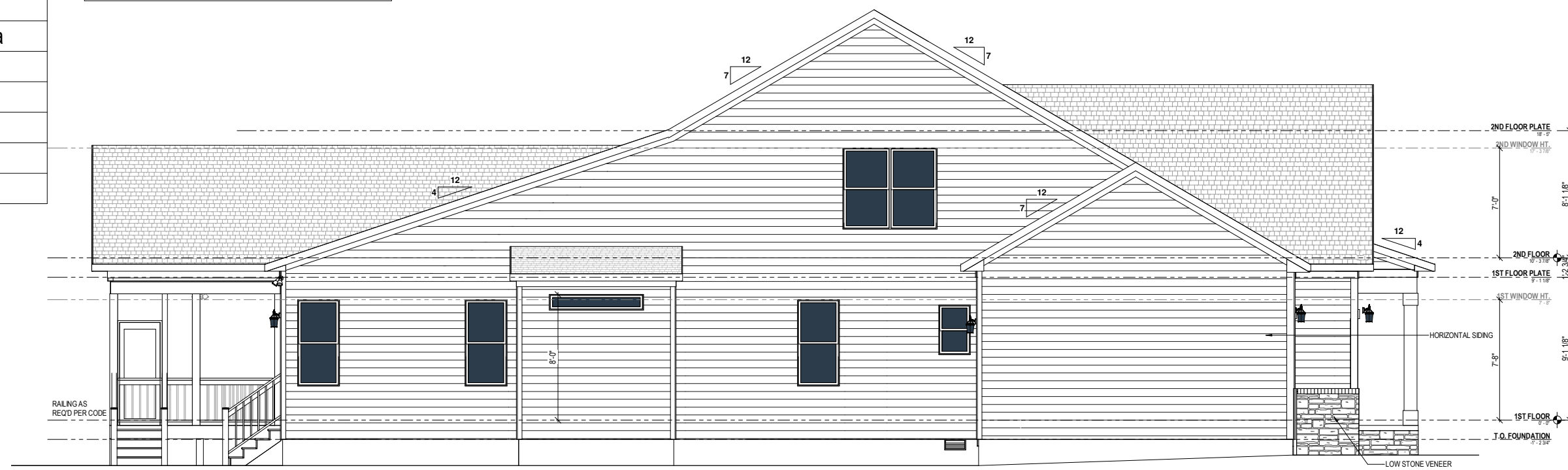
Unheated SQFT	
Description	Area
Garage	438 SF
3rd Car Garage	240 SF
Front Porch	191 SF
Screened Porch	198 SF
Patio	520 SF

MEAN ROOF HGT = 17'-10"

ENERGY COMPLIANCE MINIMUMS
 MAX GLAZING U-FACTOR = 0.35
 WALL R-VALUE = 15
 CEILING R-VALUE = 38
 FLOOR R-VALUE = 19



1 FRONT ELEVATION - 1
 1aS1 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



2 LEFT ELEVATION - 1
 1aS1 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE



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 ARCHITECTURE PA

Tillery 9' - OYL NC1 111

Caruso Homes

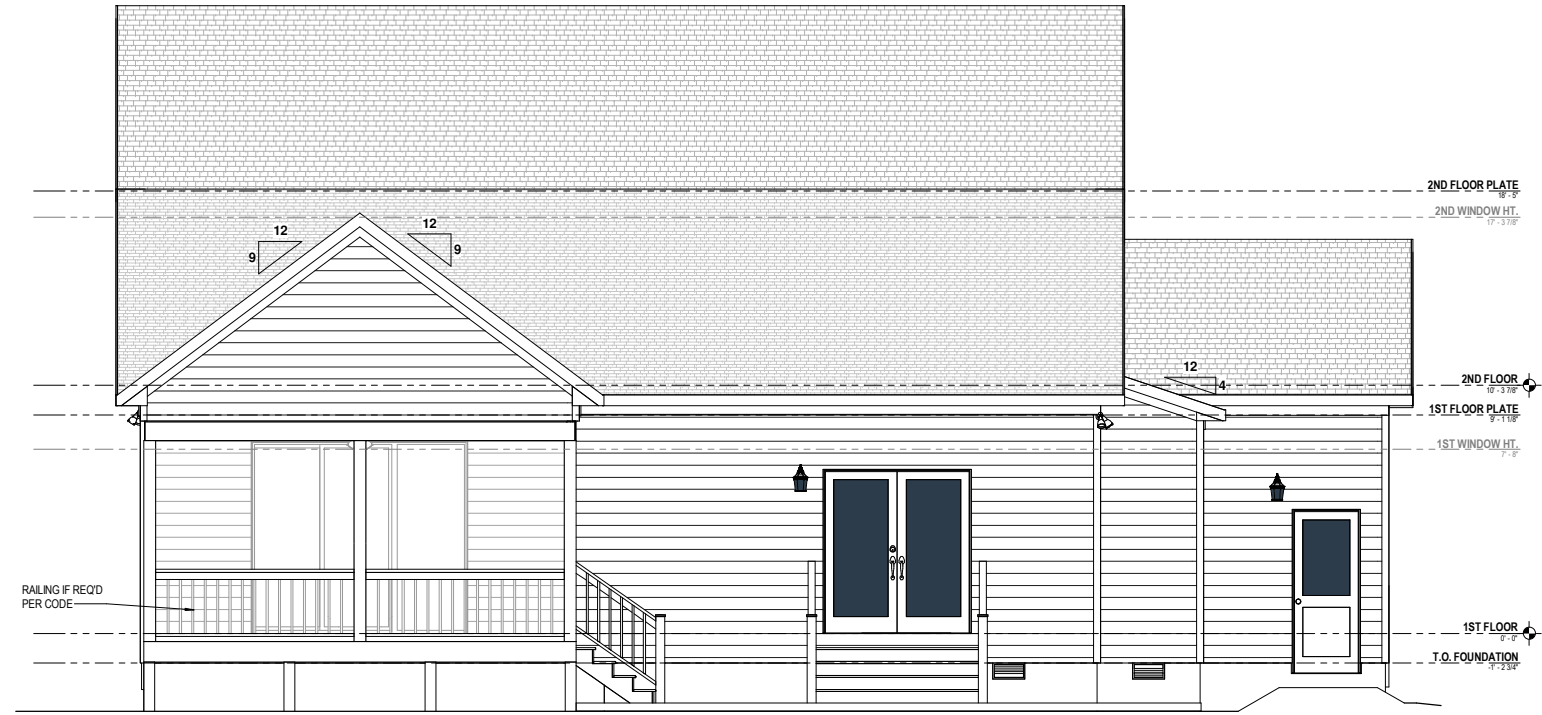
Front & Left Elevation 1

Date: 7/11/23

Drawn By: RDC

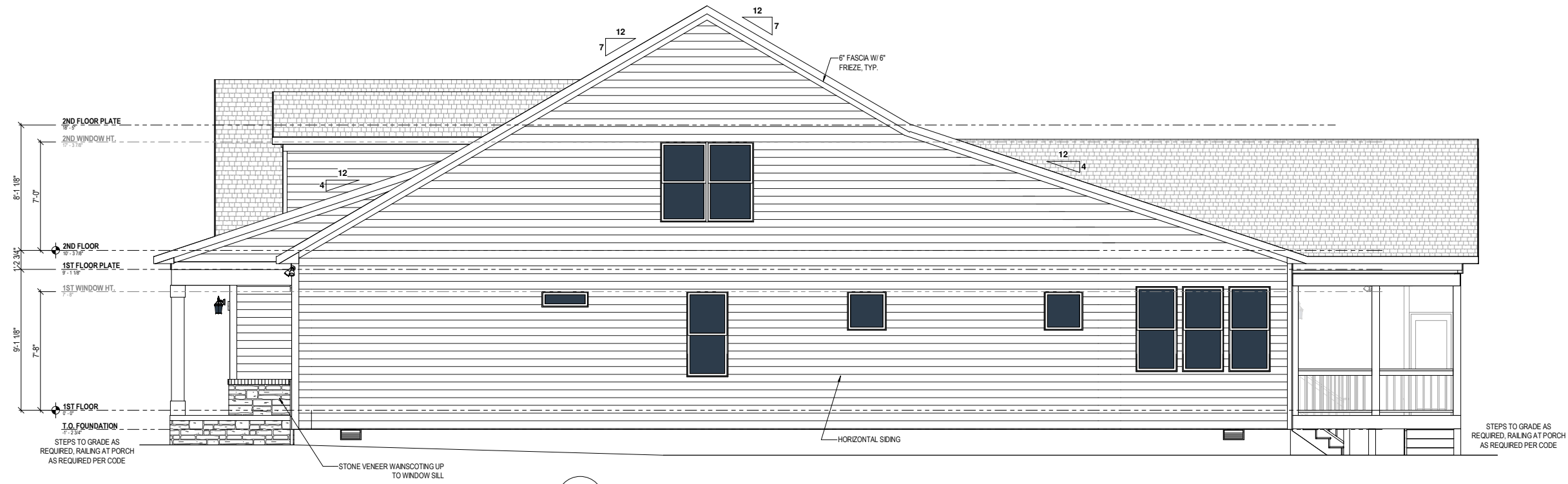
Checked By: SGM

1aS1



1 REAR ELEVATION - 1
1aS2 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE

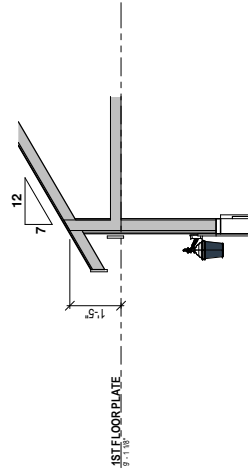
STEPS TO GRADE AS REQUIRED, RAILING AS REQUIRED PER CODE



2 RIGHT ELEVATION - 1
1aS2 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE

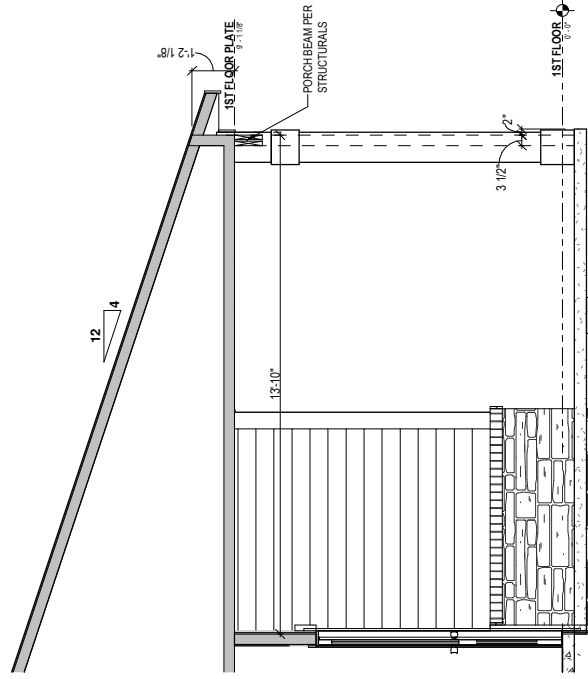
Roof Vent Calculations

SQFT. REQUIRED 3,270 /150 = 21.8 SQFT.



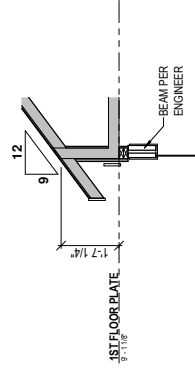
6 3RD CAR GARAGE

3/16" = 1'-0" WHEN PRINTED ON 11" X 17" / ANSI B PAPER SIZE



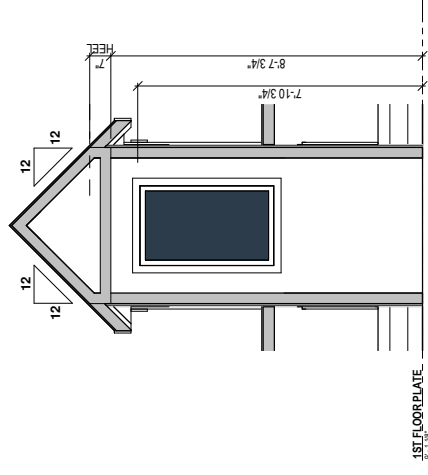
5 FRONT PORCH

3/16" = 1'-0" WHEN PRINTED ON 11" X 17" / ANSI B PAPER SIZE



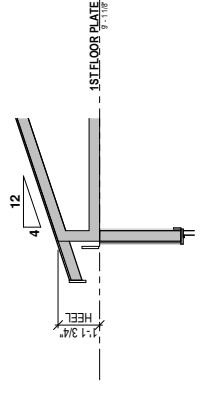
7 SCREENED PORCH

3/16" = 1'-0" WHEN PRINTED ON 11" X 17" / ANSI B PAPER SIZE



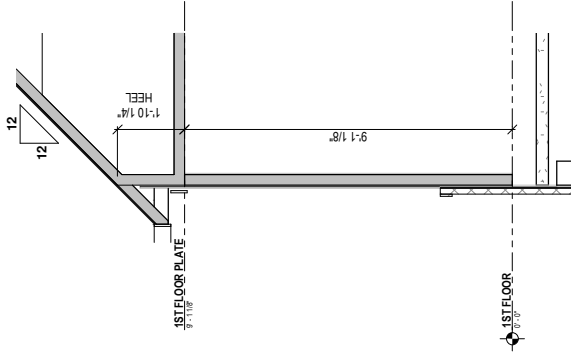
4 OVERFRAMED DORMER

3/16" = 1'-0" WHEN PRINTED ON 11" X 17" / ANSI B PAPER SIZE



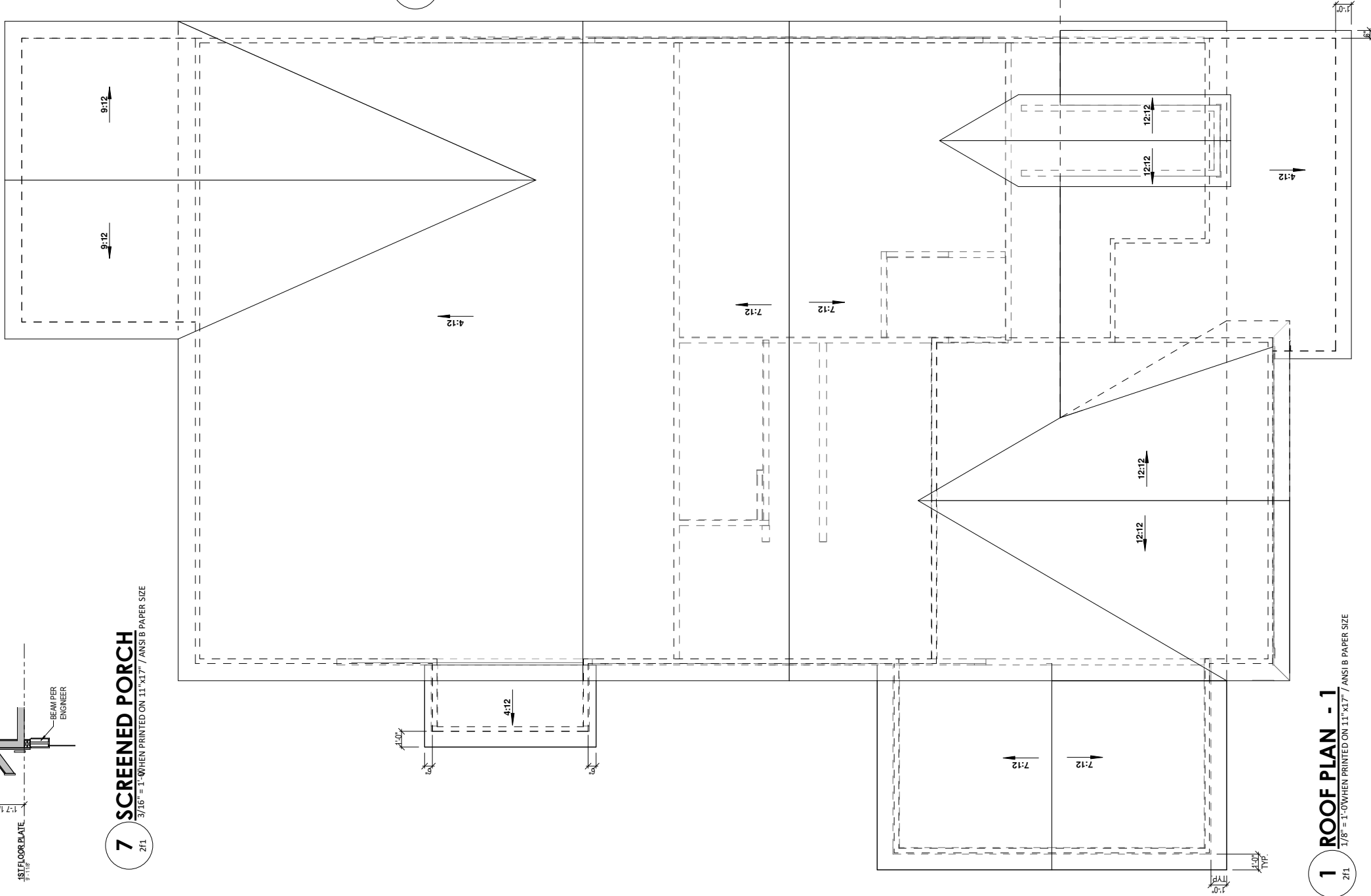
3 GABLE OVER OWNER'S RETREAT

3/16" = 1'-0" WHEN PRINTED ON 11" X 17" / ANSI B PAPER SIZE



2 GABLE ROOF OVER GARAGE

3/16" = 1'-0" WHEN PRINTED ON 11" X 17" / ANSI B PAPER SIZE



1 ROOF PLAN - 1

1/8" = 1'-0" WHEN PRINTED ON 11" X 17" / ANSI B PAPER SIZE

2f1

Date: 7/11/23

Drawn By: RDC

Checked By: SGM

Tillery 9' - OYL NC1 111

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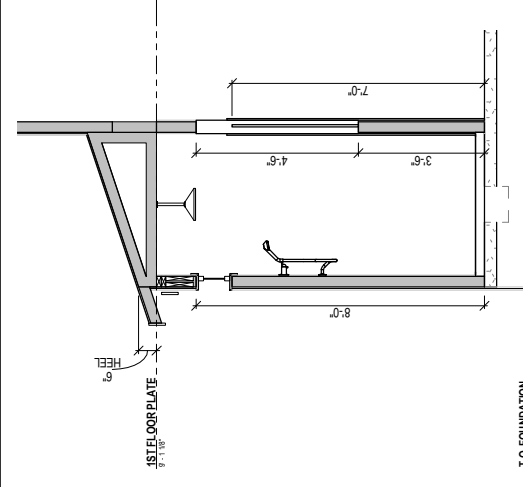
Roof Plan - 1

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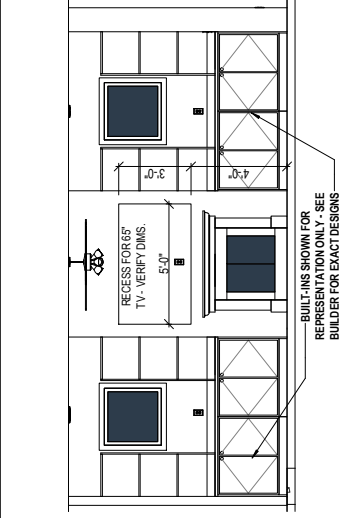
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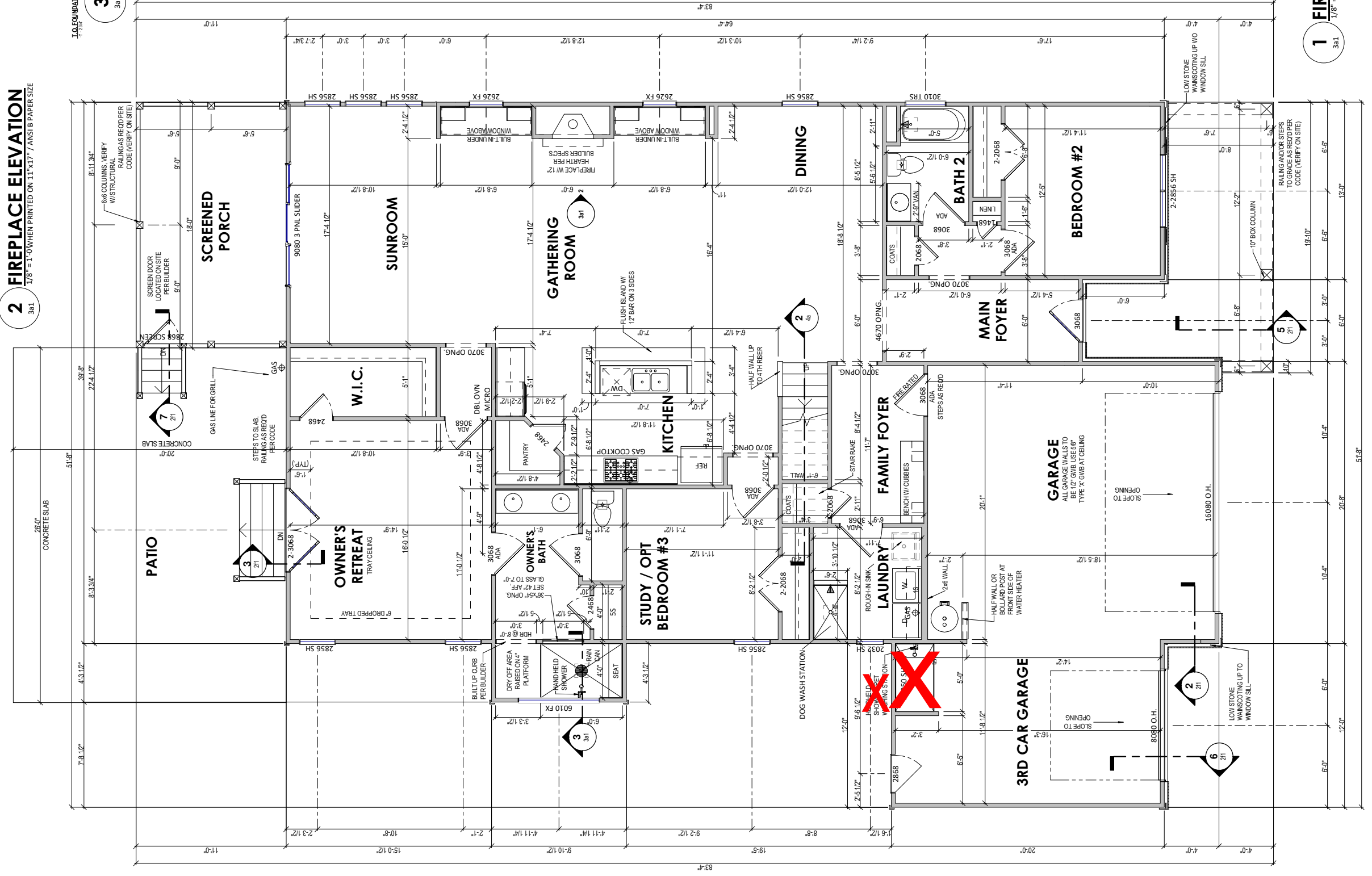
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When design meets innovation



3 Owner's Bath Section
 3/16" = 1'-0" WHEN PRINTED ON 11" X 17" / ANSI B PAPER SIZE



2 FIREPLACE ELEVATION
 1/8" = 1'-0" WHEN PRINTED ON 11" X 17" / ANSI B PAPER SIZE



1 FIRST FLOOR - 1
 1/8" = 1'-0" WHEN PRINTED ON 11" X 17" / ANSI B PAPER SIZE

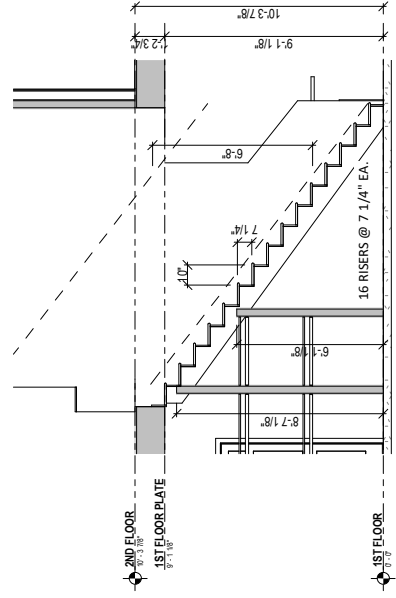
3a1

Date: 7/11/23
 Drawn By: RDC
 Checked By: SGM

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 First Floor Plan

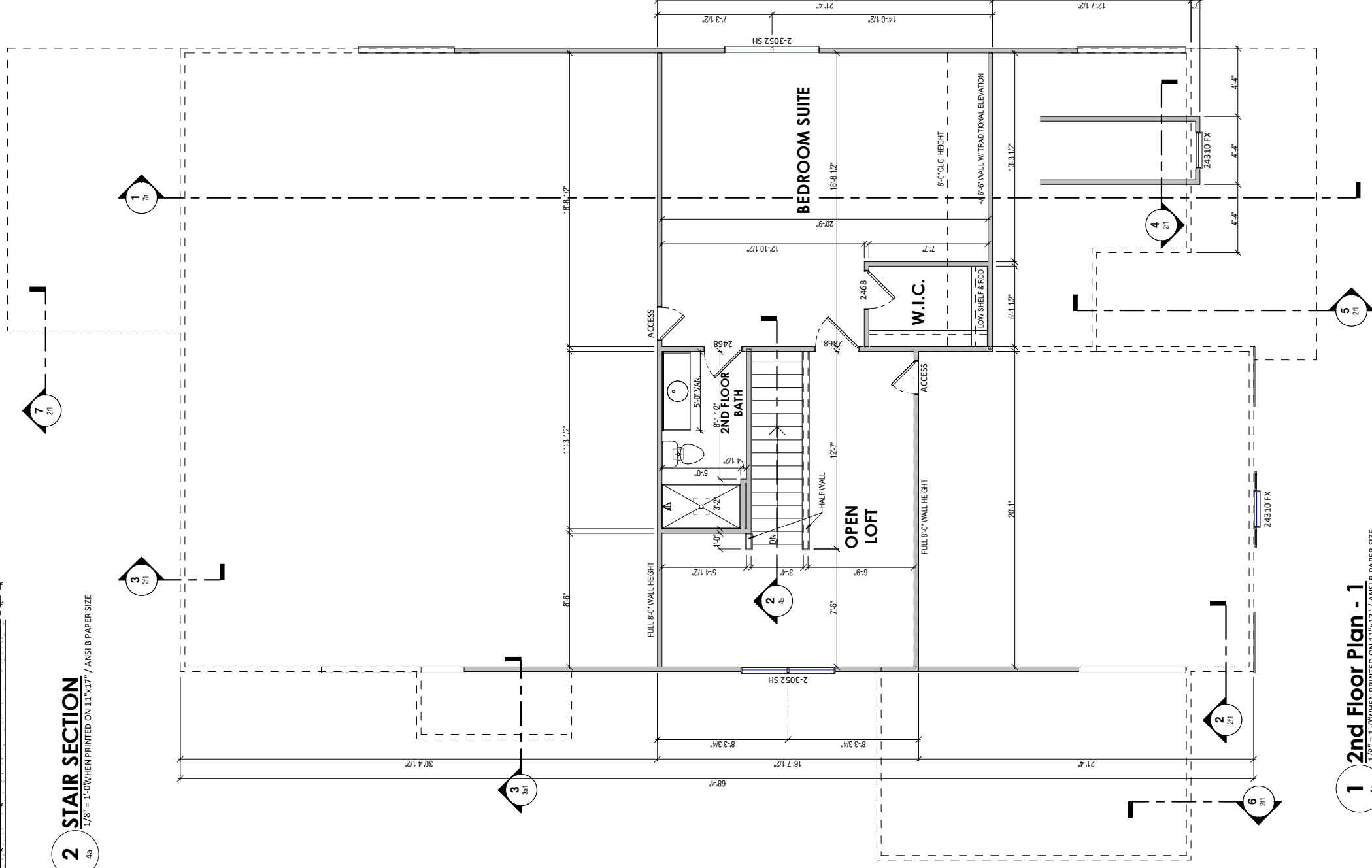
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2 STAIR SECTION

1/8" = 1'-0" WHEN PRINTED ON 11" X 17" / ANSI B PAPER SIZE



1 2nd Floor Plan - 1

1/8" = 1'-0" WHEN PRINTED ON 11" X 17" / ANSI B PAPER SIZE

Date: 7/11/23
 Drawn By: RDC
 Checked By: SGM

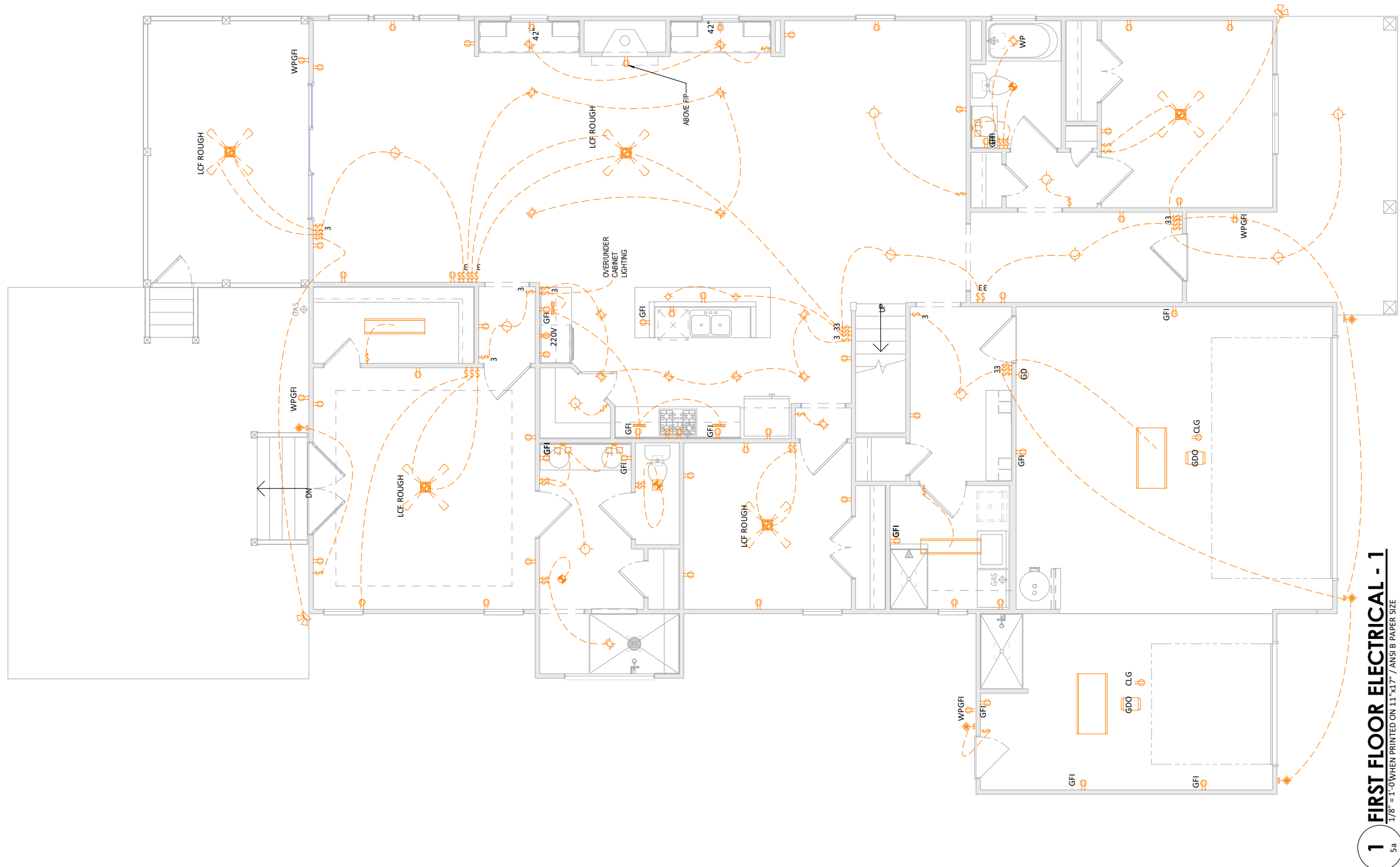
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 Second Floor Plan

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ELECTRICAL LEGEND

	SINGLE POLE SWITCH		DOOR BELL BUTTON
	3-WAY SWITCH		DOOR BELL CHIME
	4-WAY SWITCH		GARAGE DOOR BUTTON
	DIMMER SWITCH		GARAGE DOOR OPENER
	220 VOLT OUTLET		WEATHERPROOF OUTLET
	DUPLEX OUTLET		CEILING OUTLET
	GROUND FAULT OUTLET		FLOOR OUTLET
	SMOKE DETECTOR		CARBON MONOXIDE & SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR		NETWORK OUTLET
	TELEVISION OUTLET		TELEPHONE OUTLET
	SERVICE PANEL		GARBAGE DISPOSAL
	SERVICE METER		ACCENT LIGHT
	WALL MOUNT LIGHT		SINGLE SCONCE
	FLOOD LIGHT		DOUBLE SCONCE
	STRIP LIGHT		STAIR LIGHT
	BATH FAN & LIGHT		BATH FAN
	COMBO CLOSET CASTER LIGHT		UNDER CABINET LIGHT
	PULL CHAIN LIGHT		KEYLESS LIGHT
	FLUSH MOUNT LIGHT		HANGING LIGHT
	HANGING PENDANT LIGHT		MINIATURE PUCK LIGHT
	RECESSED CAN LIGHT		RECESSED EYEBALL LIGHT
	FLUORESCENT LIGHT RECTANGULAR		FLUORESCENT LIGHT ROUND
	CEILING FAN		LIGHT w/ FAN ROUGH
	LIGHTED CEILING FAN		LIGHT & FAN ROUGH



1 FIRST FLOOR ELECTRICAL - 1
1/8" = 1'-0" WHEN PRINTED ON 11" X 17" / ANSI B PAPER SIZE



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Electrical Plan First Floor

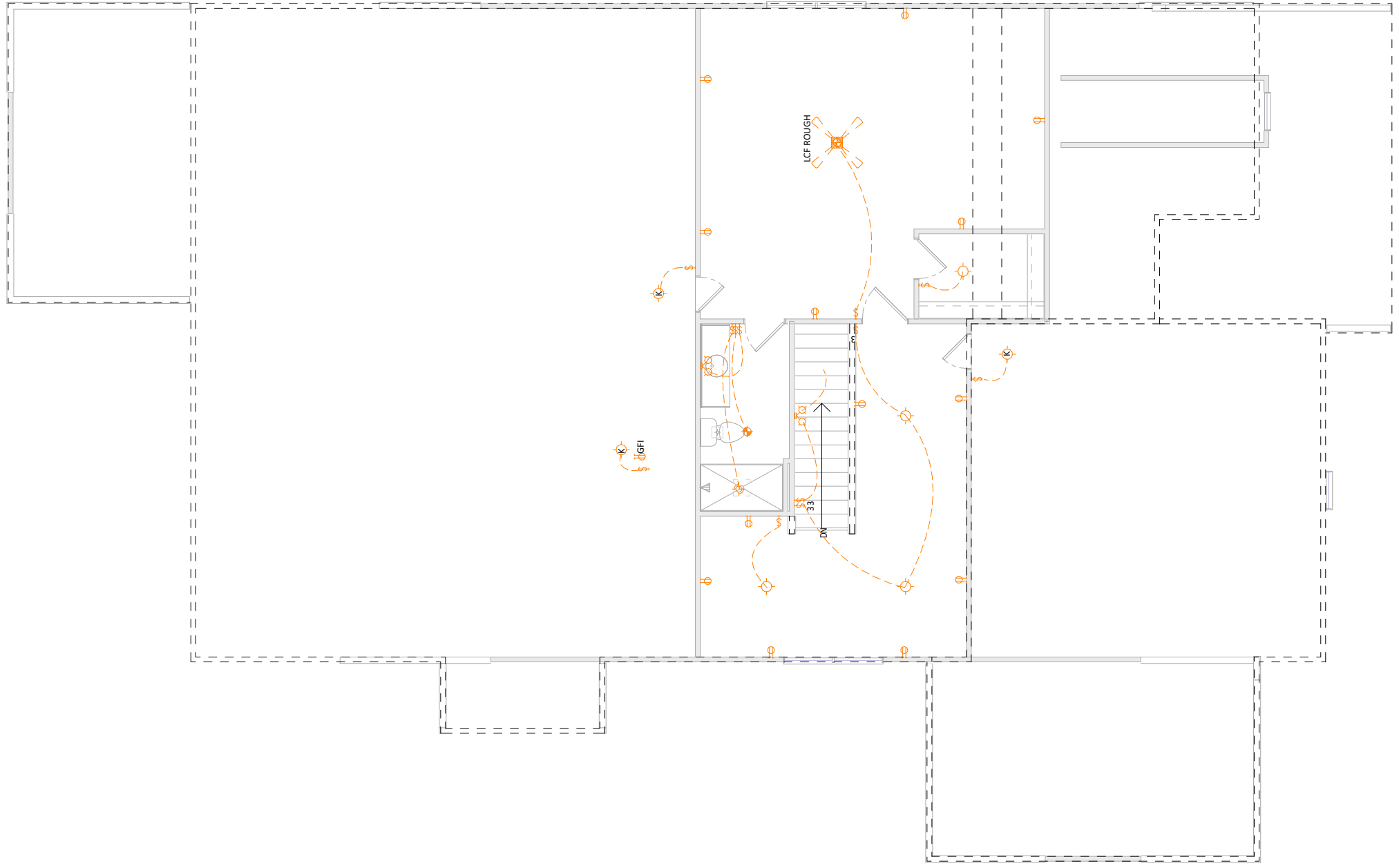
Date: 7/11/23

Drawn By: RDC

Checked By: SGM

5a

ELECTRICAL LEGEND			
	SINGLE POLE SWITCH		DOOR BELL BUTTON
	3-WAY SWITCH		DOOR BELL CHIME
	4-WAY SWITCH		GARAGE DOOR BUTTON
	DIMMER SWITCH		GARAGE DOOR OPENER
	220 VOLT OUTLET		WEATHERPROOF OUTLET
	DUPLEX OUTLET		CEILING OUTLET
	GROUND FAULT OUTLET		FLOOR OUTLET
	SMOKE DETECTOR		CARBON MONOXIDE & SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR		DATA NETWORK OUTLET
	TELEVISION OUTLET		TELEPHONE OUTLET
	SERVICE PANEL		GARBAGE DISPOSAL
	SERVICE METER		ACCENT LIGHT
	WALL MOUNT LIGHT		SINGLE SCONCE
	FLOOD LIGHT		DOUBLE SCONCE
	STRIP LIGHT 3 BULB		STAIR LIGHT
	BATH FAN & LIGHT		BATH FAN
	COMBO CLOSET CASTER LIGHT		UNDER CABINET LIGHT
	PULL CHAIN LIGHT		KEYLESS LIGHT
	FLUSH MOUNT LIGHT		HANGING LIGHT
	HANGING PENDANT LIGHT		MINIATURE PUCK LIGHT
	RECESSED CAN LIGHT		RECESSED EYEBALL LIGHT
	FLUORESCENT LIGHT RECTANGULAR		FLUORESCENT LIGHT ROUND
	CEILING FAN		LIGHT w/ FAN ROUGH
	LIGHTED CEILING FAN		LIGHT & FAN ROUGH



1 SECOND FLOOR ELECTRICAL
1/8" = 1'-0" WHEN PRINTED ON 11" X 17" / ANSI B PAPER SIZE
 5b



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Tillery 9' - OYL NC1 111

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Electrical Plan Second Floor

Date: 7/11/23

Drawn By: RDC

Checked By: SGM

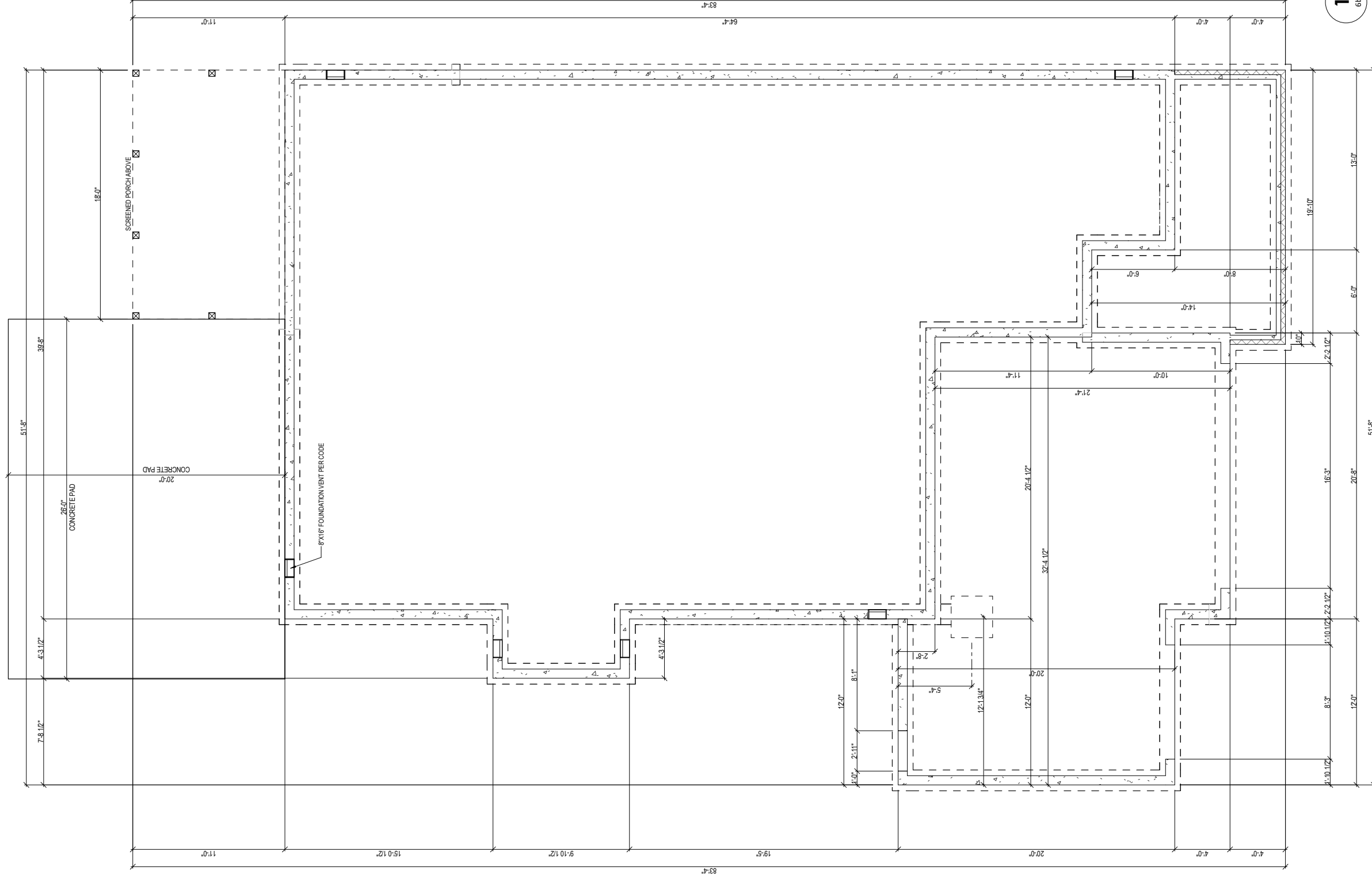
5b

NOTE: THIS SHEET IS AN ARCHITECTURAL FOUNDATION SHEET INTENDED ONLY FOR EXTERIOR DIMENSIONS AND/OR VENTILATION REQUIREMENTS/SPECIFICATIONS.

SEE SEALED STRUCTURAL PAGE FOR INFORMATION REGARDING, BUT NOT LIMITED TO, FOOTING LOCATIONS AND SPECIFICATIONS, PIER LOCATIONS AND SPECIFICATIONS, DECK FRAMING, AND COMPACTION

Crawl Vent Calculations

SOFT. OF VENTILATION REQ'D = 2203 CRAWL SQFT. /1500 = 1.47 SQFT.
 NUMBER OF VENTS REQ'D = 1.47 / 0.45 SQFT. PER VENT = 4 VENTS
 VENT SHALL BE PLACED WITHIN AT LEAST 3'-0" FROM EACH FOUNDATION CORNER.
 # OF CORNERS EFFECTED = 6
 NUMBER OF CORNERS IS GREATER THAN SQUARE FOOTAGE REQUIREMENTS, THEREFORE THE NUMBER OF FOUNDATION VENTS REQUIRED IS = 6 VENTS
BASED ON TYPICAL AUTOMATIC FOUNDATION VENT HAVING 65 SQ. INCHES OF VENTING.
 CONTRACTOR TO CONFIRM. ACTUAL VENTS USED AND ADJUST AS NEEDED IN FIELD.



1 Crawl Foundation
6b 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE

6b

Date: 7/11/23

Drawn By: sgm

Checked By: sgm

Tillery 9' - OYL NC1 111

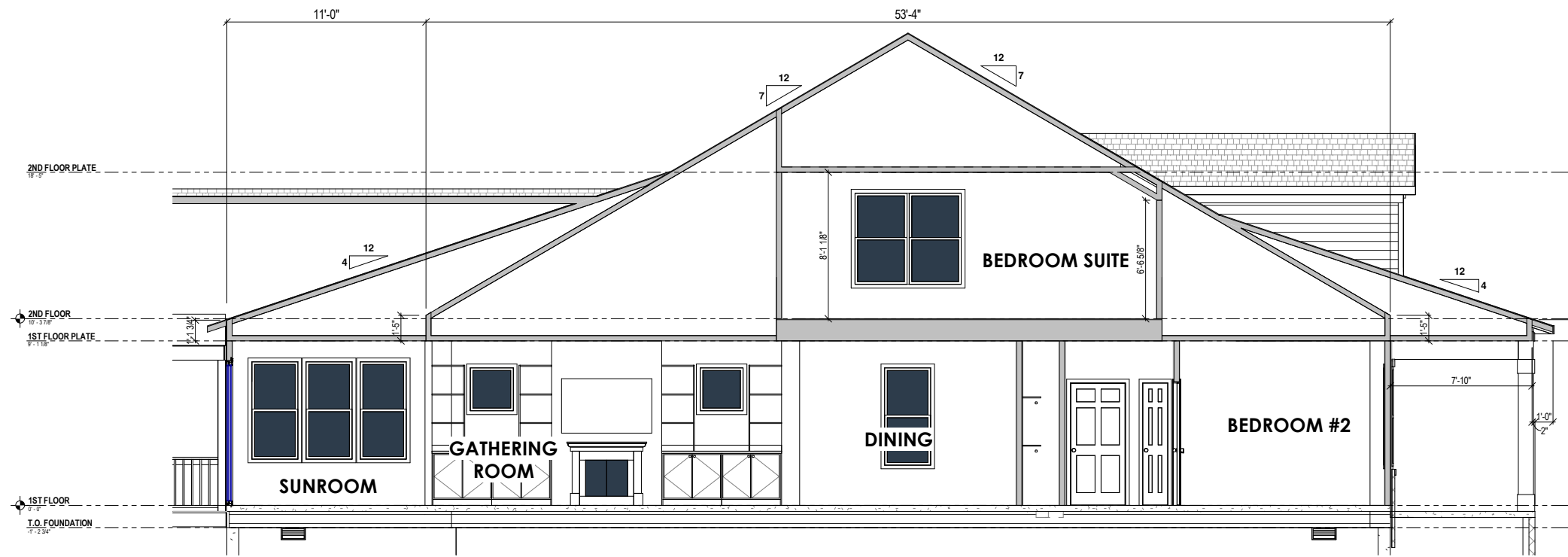
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Crawl Foundation

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1 BUILDING SECTION
 7a 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE

Tillery 9' - OYL NC1 111
Caruso Homes
Building Section

Date: 7/11/23	Drawn By: rdc	Checked By: sgm
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7a

FOUNDATION NOTES:

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
- STRUCTURAL CONCRETE TO BE $F_c = 3000$ PSI, PREPARED AND PLACED IN ACCORDANCE WITH ACI STANDARD 318.
- FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE ENFORCEMENT OFFICIAL.
- FOOTING SIZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 2000 PSF. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE ELEMENTS, PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FACE OF MASONRY.
- MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN SECTION R404.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
- FILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
- PROVIDE FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.
- PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
- CORSELL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK VENEERS.
- CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIS.
- FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.16, MINIMUM 1/2" DIA BOLTS SPACED AT 6'-0" ON CENTER, WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE, MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION AND (1) LOCATED NOT MORE THAN 12" FROM THE CORNER, ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
- ABBREVIATIONS:

DJ = DOUBLE JOIST SJ = SINGLE JOIST
 GT = GIRDER TRUSS FT = FLOOR TRUSS
 SC = STUD COLUMN DR = DOUBLE RAFTER
 EE = EACH END TR = TRIPLE RAFTER
 TJ = TRIPLE JOIST OC = ON CENTER
 CL = CENTER LINE PL = POINT LOAD

- ALL PIERS TO BE 16"x16" MASONRY AND ALL FILASTERS TO BE 2"x16" MASONRY, TYPICAL, (UNO).
- WALL FOOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN. A FOUNDATION EXCAVATION OBSERVATION SHOULD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER, OR HIS QUALIFIED REPRESENTATIVE, IF ISOLATED AREAS OF YIELDING MATERIALS AND/OR POTENTIALLY EXPANSIVE SOILS ARE OBSERVED IN THE FOOTING EXCAVATIONS AT THE TIME OF CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. MUST BE PROVIDED THE OPPORTUNITY TO REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.
- ALL FOOTINGS & SLABS ARE TO BEAR ON UNDISTURBED SOIL OR 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL.

REINFORCE GARAGE PORTAL WALLS PER FIGURE R602.10.4.3 OF THE 2018 NCR. (TYP)

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED HOLD-DOWNS. ADDITIONAL INFORMATION PER SECTION R602.10.4 AND FIGURE R602.10.3(4) OF THE 2018 NCR.

NOTE: ALL EXTERIOR FOUNDATION DIMENSIONS ARE TO FRAMING AND NOT BRICK VENEER, UNO.

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP 1 PER TABLE R409.1

BEAM POCKETS MAY BE SUBSTITUTED FOR MASONRY FILASTERS AT GIRDER ENDS. BEAM POCKETS SHALL HAVE A MINIMUM 4" SOLID MASONRY BEARING.

NOTE: REDUCE JOIST SPACING UNDER TILE FLOORS, GRANITE COUNTERTOPS AND/OR ISLANDS.

18"x24" MIN. CRAWL SPACE ACCESS DOOR TO BE LOCATED IN FIELD PER BUILDER, PROVIDE MINIMUM (2) 2"x10" HEADER OVER DOOR w/ MIN. 4" BEARING AT EACH END. AVOID SHOWN POINT LOADS.

DECK JOISTS SHALL BE SPACED AT A MAX. 12" O.C. WHEN DECK BOARDS ARE INSTALLED DIAGONALLY.

NOTE: FOUNDATION ANCHORAGE HAS BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R602.35 OF THE 2018 NCR.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY CARUSO HOYES, COMPLETED/REVISED ON 07/11/2023. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

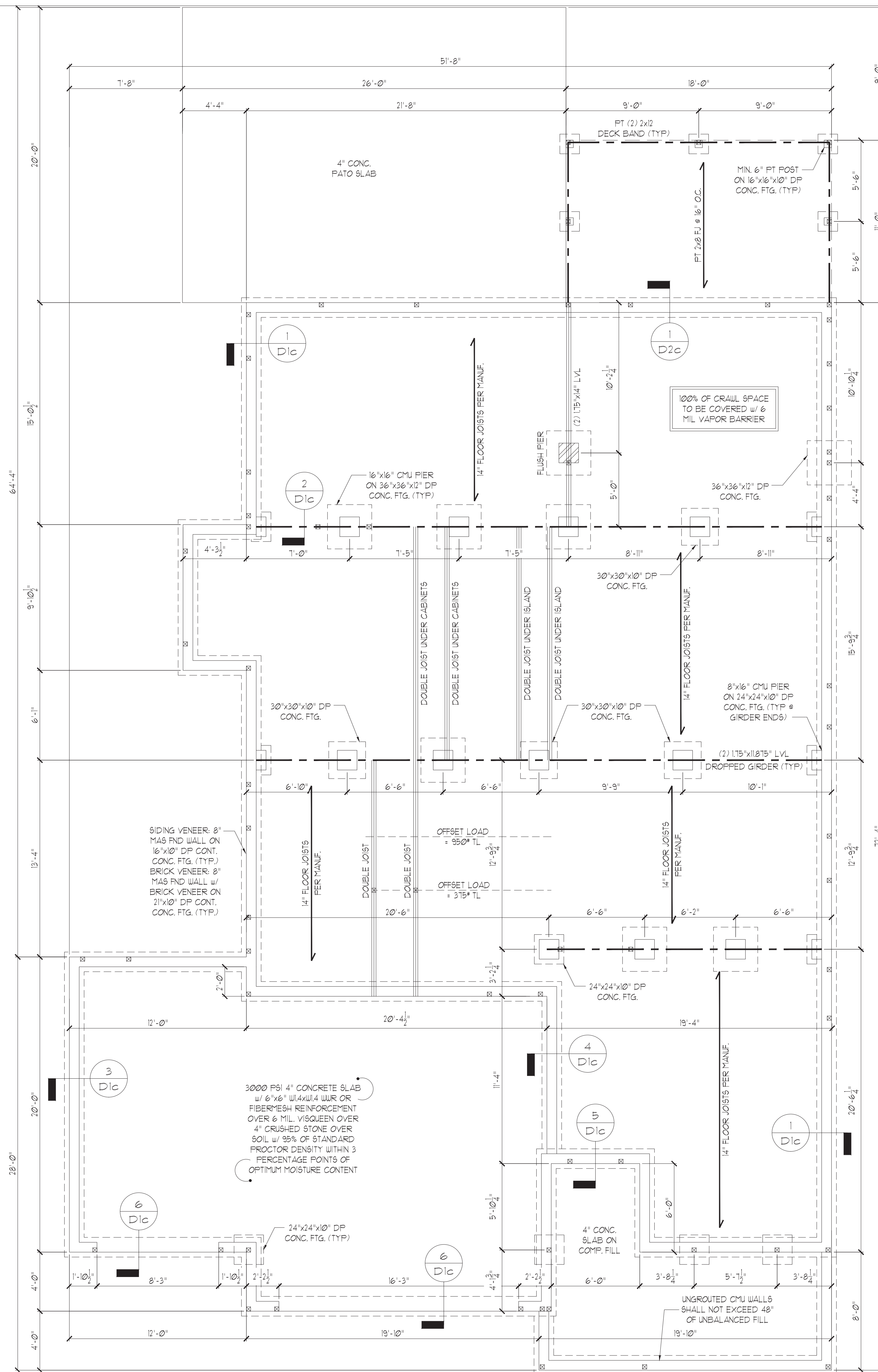
STRUCTURAL MEMBERS ONLY

ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT, SEAL DOES 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 SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY.

STRUCTURAL ANALYSIS BASED ON 2018 NCR.

CRAWL SPACE FOUNDATION PLAN

SCALE: 1/4"=1'



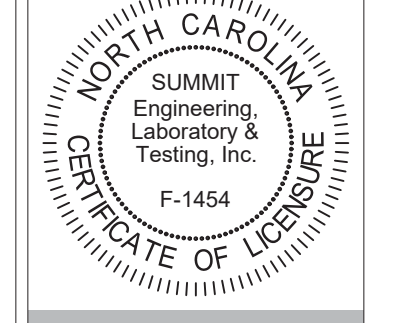
CRAWL SPACE VENTILATION:
 2203 SQ. FT. / 150 = 14.7 SQ. FT. REQ'D.
 14.7 SQ. FT. / 0.45 PER VENT = 33 VENTS REQ'D.

NOTE: WHERE AN APPROVED VAPOR BARRIER IS INSTALLED OVER GROUND SURFACE, THE REQ'D. VENTILATION MAY BE REDUCED BY 50%.

STUD SPACED @ END CRIPPLE WALLS

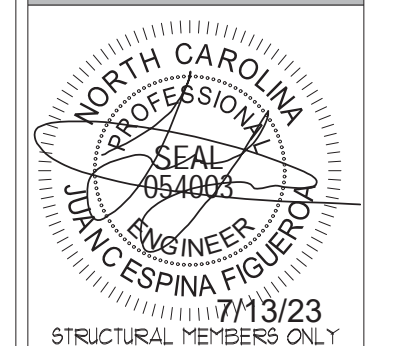
STUD SIZE	MAXIMUM STUD HEIGHT		
	UP TO 48"	4'-1" TO 6'-0"	6'-1" TO 8'-0"
2x4	16"	12"	N/A
2x6	16"	16"	12"

- NOTES:**
- CRIPPLE STUDS EXCEEDING 48" IN HEIGHT SHALL BE CONSIDERED AN ADDITIONAL STORY PER R602.9
 - CRIPPLE STUDS SHALL NOT BE FRAMED SMALLER THAN THE STUD SIZE FRAMED ABOVE.
 - SQUASH BLOCKING SHALL BE INSTALLED UNDER ALL SHOWN STUD COLUMNS.
 - CRIPPLE WALLS SHALL BE SHEATHED IN ACCORDANCE WITH SHEATHING METHOD DENOTED ON FLOOR ABOVE.



CLIENT: CARUSO HOYES
 206 HIGH HOUSE ROAD, SUITE 205
 CARY, NC 27511

PROJECT: NCI III (Tillery I)
 Crawl Space Foundation



DRAWING DATE: 07/10/2023
 SCALE: 3/16" = 1'-0"
 PROJECT: 4-231544R
 DRAWN BY: EPB
 CHECKED BY: JEP

ORIGINAL INFORMATION
 PROJECT: 4-231544 DATE: 04/2/2023

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET **S1.0c**

GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS. CONTRACTOR SHALL COMPLY WITH THE CONTENTS OF THE DRAWING FOR THIS SPECIFIC PROJECT. ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAN.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION.
- PROPERTIES USED IN THE DESIGN ARE AS FOLLOWS:
MICROLAM (LVL): $F_b = 2600$ PSI, $F_v = 285$ PSI, $E = 1.9 \times 10^6$ PSI
PARALLAM (FSL): $F_b = 2900$ PSI, $F_v = 290$ PSI, $E = 1.25 \times 10^6$ PSI
- ALL WOOD MEMBERS SHALL BE #2 SYP UNLESS NOTED ON PLAN. ALL STUD COLUMNS SHALL BE #2 SFF (UNO).
- ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 #2 SFF STUD COLUMN AT EACH END UNLESS NOTED OTHERWISE.
- ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A615 AND SHALL HAVE A MINIMUM COVER OF 3".
- FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.1.6. MINIMUM 1/2" DIA. BOLTS SPACED AT 6'-0" ON CENTER WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION AND (1) LOCATED NOT MORE THAN 12" FROM THE CORNER. ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
- CONTRACTOR TO PROVIDE LOOKOUTS WHEN CEILING JOISTS SPAN PERPENDICULAR TO RAFTERS.
- FLITCH BEAMS, 4-PLY LVL'S AND 3-PLY SIDE LOADED LVL'S SHALL BE BOLTED TOGETHER WITH 1/2" DIA. THRU BOLTS SPACED AT 24" O.C. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL 1/D31. MIN. EDGE DISTANCE SHALL BE 2" AND (2) BOLTS SHALL BE LOCATED MINIMUM 6" FROM EACH END OF THE BEAM.
- ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 SYP #2, DROPPED. FOR NON-LOAD BEARING HEADERS EXCEEDING 8'-0" IN WIDTH AND/OR WITH MORE THAN 2'-0" OF CRIPPLE WALL ABOVE, SHALL BE (2) FLAT 2x4 SYP #2, DROPPED. (UNLESS NOTED OTHERWISE).
- ABBREVIATIONS:

DJ = DOUBLE JOIST SJ = SINGLE JOIST
GT = GIRDER TRUSS FT = FLOOR TRUSS
SC = STUD COLUMN DR = DOUBLE RAFTER
EE = EACH END TR = TRIPLE RAFTER
TJ = TRIPLE JOIST OC = ON CENTER
CL = CENTER LINE PL = POINT LOAD

WALL STUD SCHEDULE (10 FT HEIGHT)

STUD SIZE	STUD SPACING (O.C.)			
	ROOF ONLY	ROOF 4 FLOOR	ROOF 4 2 FLOORS	NON-LOAD BEARING
2x4	24"	16"	12"	24"
2x6	24"	24"	16"	24"

- NOTES:
1. BRACED WALLS STUDS SHALL BE A MAX. OF 16" O.C.
2. STUDS SUPPORTS OPTIONAL WALK-UP ATTIC SHALL BE SPACED A MAX. OF 16" O.C.
3. TWO STORY WALLS SHALL BE FRAMED W/ 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. BALLOON FRAMED W/ CROSS BRACING @ 6'-0" O.C. VERTICALLY.
4. FOR STUDS GREATER THAN 10'-0" IN HEIGHT, REFER TO TWO STORY WALL NOTE FOR FRAMING REQUIREMENT.

ALL HEADERS WHERE BRICK IS USED, TO BE:
① LINTEL (UNO.)

LINTEL SCHEDULE:

- STEEL ANGLES TO HAVE MINIMUM 4" BEARING ONTO BRICK AT EACH END.
- L3x3x1/4"
 - L5x3"x1/4"
 - L5x3-1/2x5/16"
 - L5x3-1/2"x5/16" ROLLED OR EQUAL ARCHED COMPONENT.
- SECURE LINTEL TO HEADER W/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED @ 16" O.C. (TYP FOR (3))

SHADE WALLS INDICATED LOAD BEARING WALLS

JOIST & BEAM SIZES SHOWN ARE MINIMUMS. BUILDER MAY INCREASE DEPTH FOR EASE OF CONSTRUCTION.

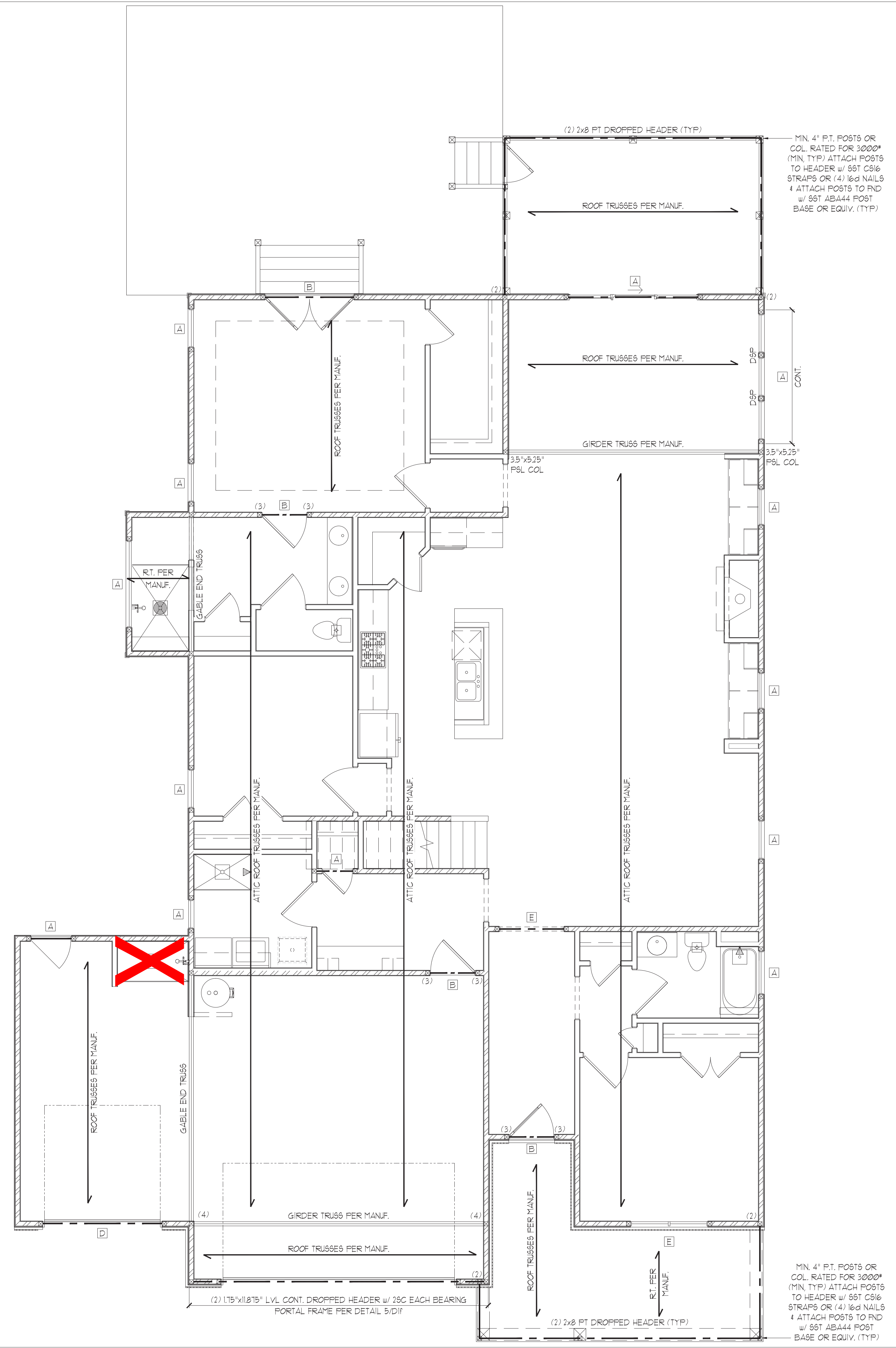
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STRUCTURAL ANALYSIS BASED ON 2018 NCR.

FIRST FLOOR FRAMING PLAN

SCALE: 1/4" = 1'



HEADER SCHEDULE

TAG	SIZE	JACKS (EACH END)
A	(2) 2x6	(1)
B	(2) 2x8	(2)
C	(2) 2x10	(2)
D	(2) 2x12	(2)
E	(2) 9-1/4" LSL LVL	(3)
F	(3) 2x6	(1)
G	(3) 2x8	(2)
H	(3) 2x10	(2)
I	(3) 2x12	(3)

- NOTES:
1. HEADER SIZES SHOWN ON PLANS ARE MINIMUMS. GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION.
2. ALL HEADERS TO BE DROPPED (UNO.)
3. STUD COLUMNS NOTED ON PLAN OVERRIDE STUD COLUMNS LISTED ABOVE (UNO.)

MIN. 4" P.T. POSTS OR COL. RATED FOR 3000# (MIN. TYP) ATTACH POSTS TO HEADER W/ 56T C916 STRAPS OR (4) 16d NAILS & ATTACH POSTS TO FND W/ 56T ABA44 POST BASE OR EQUIV. (TYP)

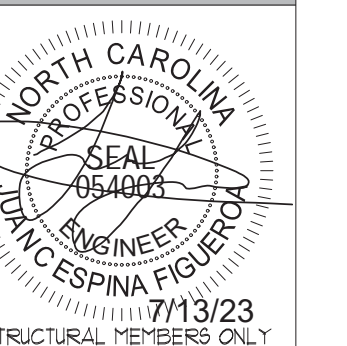
MIN. 4" P.T. POSTS OR COL. RATED FOR 3000# (MIN. TYP) ATTACH POSTS TO HEADER W/ 56T C916 STRAPS OR (4) 16d NAILS & ATTACH POSTS TO FND W/ 56T ABA44 POST BASE OR EQUIV. (TYP)

ELEVATION 1



CLIENT: CARUSO HOMES
206 HIGH HOUSE ROAD, SUITE 205
CARY, NC 27511

PROJECT: NCI III (Tillery I)
First Floor Framing Plan



DATE: 07/12/23
SCALE: 3/8" = 1'-0"
PROJECT #: 423194R
DRAWN BY: EPB
CHECKED BY: JEF
DATE: 04/2/2023
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS
SHEET: S3.0

HEADER SCHEDULE		
TAG	SIZE	JACKS (EACH END)
A	(2) 2x6	(1)
B	(2) 2x8	(2)
C	(2) 2x10	(2)
D	(2) 2x12	(2)
E	(2) 9-1/4" LBL/LVL	(3)
F	(3) 2x6	(1)
G	(3) 2x8	(2)
H	(3) 2x10	(2)
I	(3) 2x12	(3)

NOTES:
 1. HEADER SIZES SHOWN ON PLANS ARE MINIMUMS. GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION.
 2. ALL HEADERS TO BE DROPPED (UNO).
 3. STUD COLUMNS NOTED ON PLAN OVERRIDE STUD COLUMNS LISTED ABOVE (UNO).

KING STUD SCHEDULE	
MAXIMUM HEADER SPAN	MINIMUM KING STUDS E.E.
3'-0"	(1)
4'-0"	(2)
8'-0"	(3)
12'-0"	(5)
16'-0"	(6)

WALL STUD SCHEDULE (10 FT HEIGHT)				
STUD SIZE	STUD SPACING (O.C.)			
	ROOF ONLY	ROOF & 1 FLOOR	ROOF & 2 FLOORS	NON-LOAD BEARING
2x4	24"	16"	12"	24"
2x6	24"	24"	16"	24"

NOTES:
 1. BRACED WALLS STUDS SHALL BE A MAX. OF 16" O.C.
 2. STUDS SUPPORTS OPTIONAL WALK-UP ATTIC SHALL BE SPACED A MAX. OF 16" O.C.
 3. TWO STORY WALLS SHALL BE FRAMED w/ 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. BALLOON FRAMED w/ CROSS BRACING @ 6'-0" O.C. VERTICALLY.
 4. FOR STUDS GREATER THAN 10'-0" IN HEIGHT, REFER TO TWO STORY WALL NOTE FOR FRAMING REQUIREMENT.

ALL HEADERS WHERE BRICK IS USED, TO BE:
 (1) LINTEL (UNO).

LINTEL SCHEDULE:
 STEEL ANGLES TO HAVE MINIMUM 4" BEARING ONTO BRICK AT EACH END.

- 1) L3x3x1/4"
- 2) L5x3x1/4"
- 3) L5x3-1/2x5/16"
- 4) L5x3-1/2x5/16" ROLLED OR EQUAL ARCHED COMPONENT.

SECURE LINTEL TO HEADER w/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED @ 16" O.C. (TYP FOR (3))

SHADE WALLS INDICATED LOAD BEARING WALLS

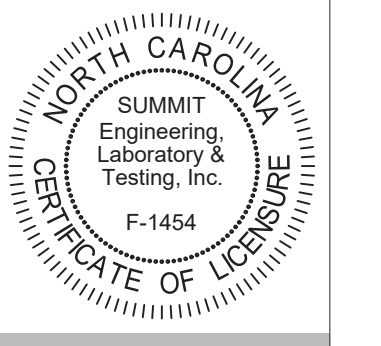
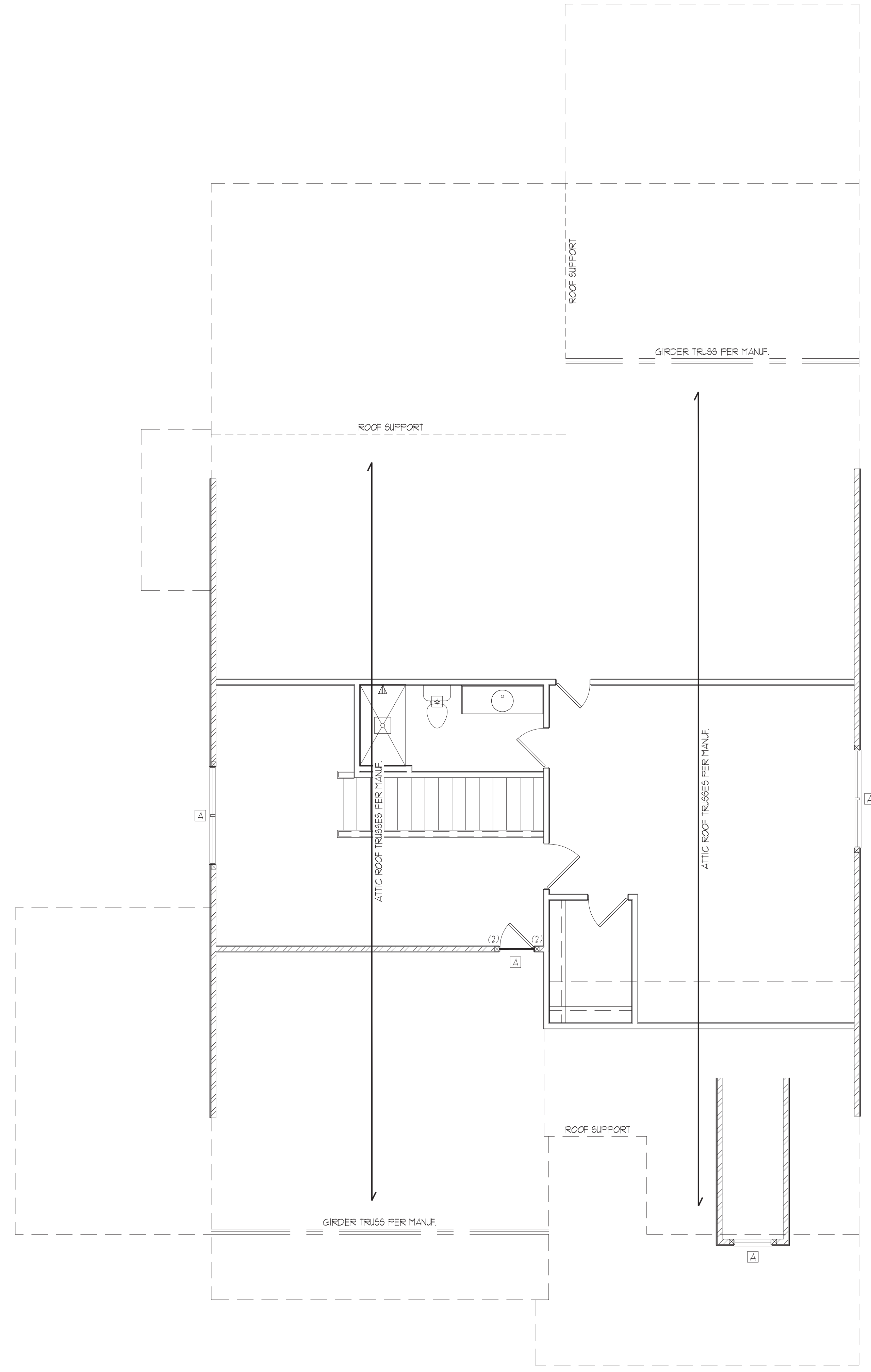
JOIST & BEAM SIZES SHOWN ARE MINIMUMS. BUILDER MAY INCREASE DEPTH FOR EASE OF CONSTRUCTION.

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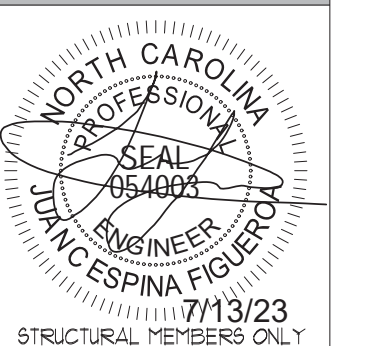
STRUCTURAL ANALYSIS BASED ON 2018 NCR.

SECOND FLOOR FRAMING PLAN
 SCALE: 1/4"=1'



CLIENT: CARUSO HOMES
 206 HIGH HOUSE ROAD, SUITE 205
 CARY, NC 27511

PROJECT: NCI III (Tillery I)
 Second Floor Framing Plan



DRAWING
 DATE: 07/12/2023
 SCALE: 1/4"=1'-0"
 PROJECT: 4231944
 DRAWN BY: EPB
 CHECKED BY: JEF

ORIGINAL INFORMATION
 PROJECT: 4231944
 DATE: 04/27/2023

TRUSS UPLIFT CONNECTOR SCHEDULE	MAX. UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO END
600 LBS	H2.5A	PER WALL SHEATHING & FASTENERS		
1200 LBS	(2) H2.5A	C916 (END ± 11")	DTT2Z	
1450 LBS	HT520	C916 (END ± 11")	DTT2Z	
2000 LBS	(2) MT520	(2) C916 (END ± 11")	DTT2Z	
2900 LBS	(2) HT520	(2) C916 (END ± 11")	HTT4	
3685 LBS	LGT3-SD52.5	MTCS2	HTT4	

- ALL PRODUCTS LISTED ARE SIMPSON STRONG-TIE. EQUIVALENT PRODUCTS MAY BE USED PER MANUFACTURER'S SPECIFICATIONS.
- UPLIFT VALUES LISTED ARE FOR SYP #2 GRADE MEMBERS.
- REFER TO TRUSS LAYOUT PER MANUF. FOR UPLIFT VALUES AND TRUSS TO TRUSS CONNECTIONS. CONNECTORS SPECIFIED BY TRUSS MANUFACTURER OVERRIDE THOSE LISTED ABOVE.
- CONTACT SUMMIT FOR REQUIRED CONNECTORS WHEN LOADS EXCEED THOSE LISTED ABOVE.

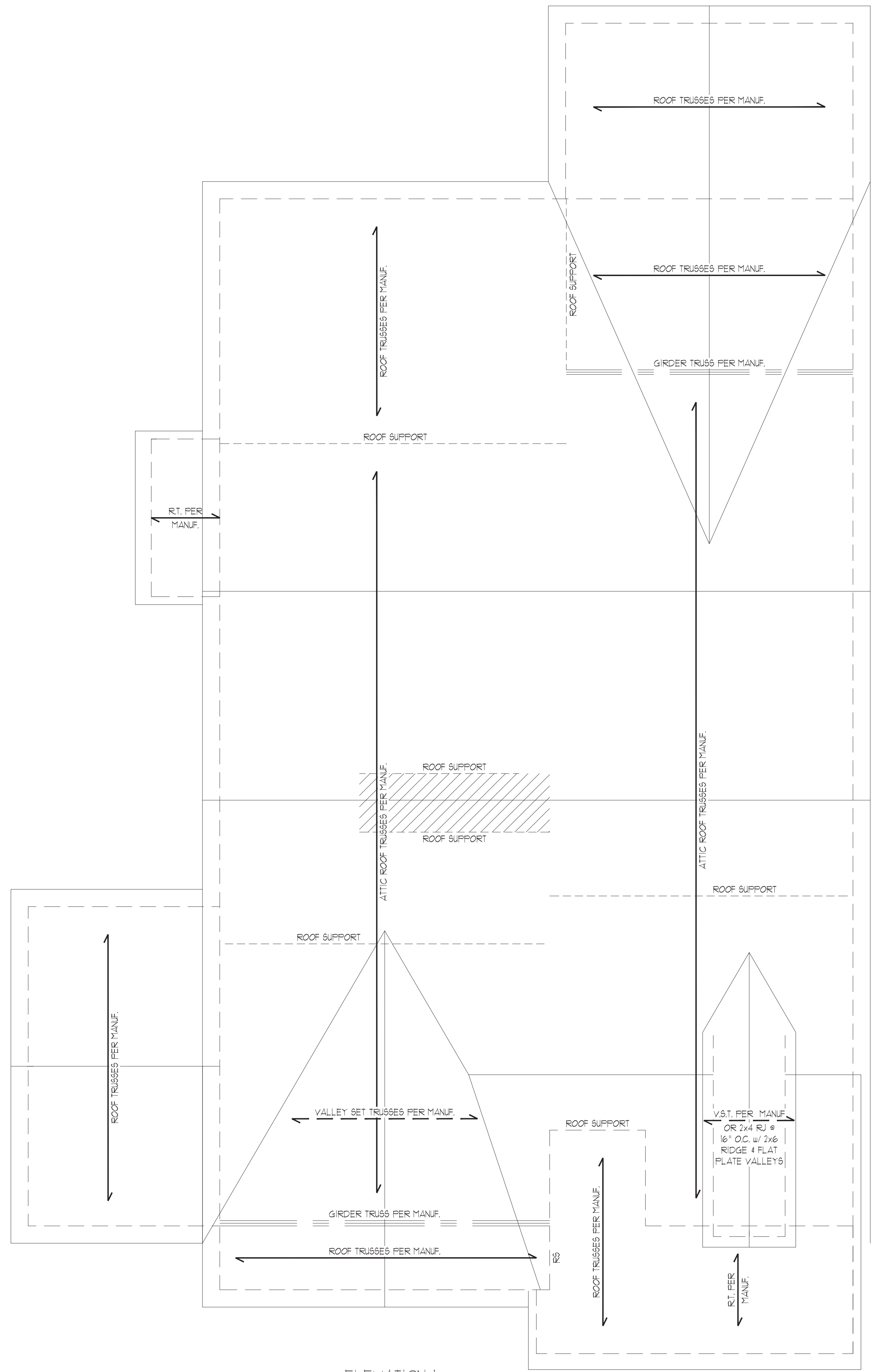
NOTE: 1ST FLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TYP, UNO)

NOTE: ROOF TRUSSES SHALL BE SPACED TO SUPPORT FALSE FRAMED DORMER WALLS (TYP, UNO)

REFER TO DETAIL 5/D3F FOR EYEBROW, RETURN OR SHED ROOF FRAMING REQUIREMENTS. (TYP FOR ROOFS PROTRUDING MAXIMUM 24" FROM STRUCTURE)

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED PER TRUSS MANUFACTURER IN ACCORDANCE WITH SECTION R02.1111 WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R02.3.5 OF THE 2018 NCR. REFER TO BRACED WALL PLANS FOR SHEATHING AND FASTENER REQUIREMENTS.

HATCHED AREA DENOTES
BREAK AWAY BOTTOM
CHORD FROM ATTIC TRUSS



ELEVATION 1

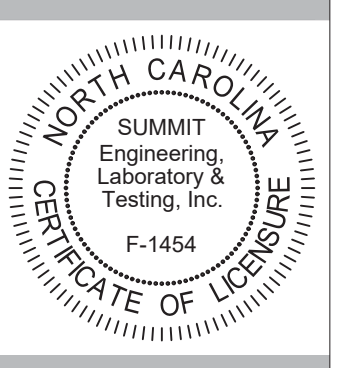
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STRUCTURAL ANALYSIS BASED ON 2018 NCR.

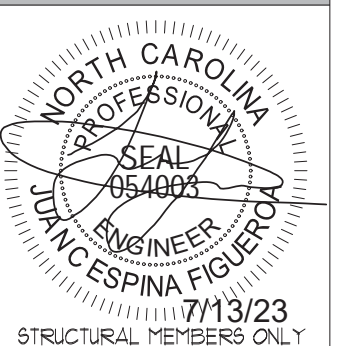
ROOF FRAMING PLAN

SCALE: 1/4" = 1'



CLIENT: CARUSO HOMES
206 HIGH HOUSE ROAD, SUITE 205
CARY, NC 27511

PROJECT: NCI III (Tillery 1)
Roof Framing Plan



DRAWING DATE: 07/13/2023
SCALE: 1/4" = 1'-0"
SHT 18'-0" x 12'-0"
PROJECT # 4231944
DRAWN BY: EPB
CHECKED BY: JEF

ORIGINAL INFORMATION
PROJECT # 4231944 DATE 04/2/2023

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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 NAILS** @ 1" O.C.	5d COOLER NAILS** @ 1" O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.
FF	WOOD STRUCTURAL PANEL	1/16"	PER FIGURE R602.10.1	PER FIGURE R602.10.1

**OR EQUIVALENT PER TABLE R102.3.5

BRACED WALL NOTES:

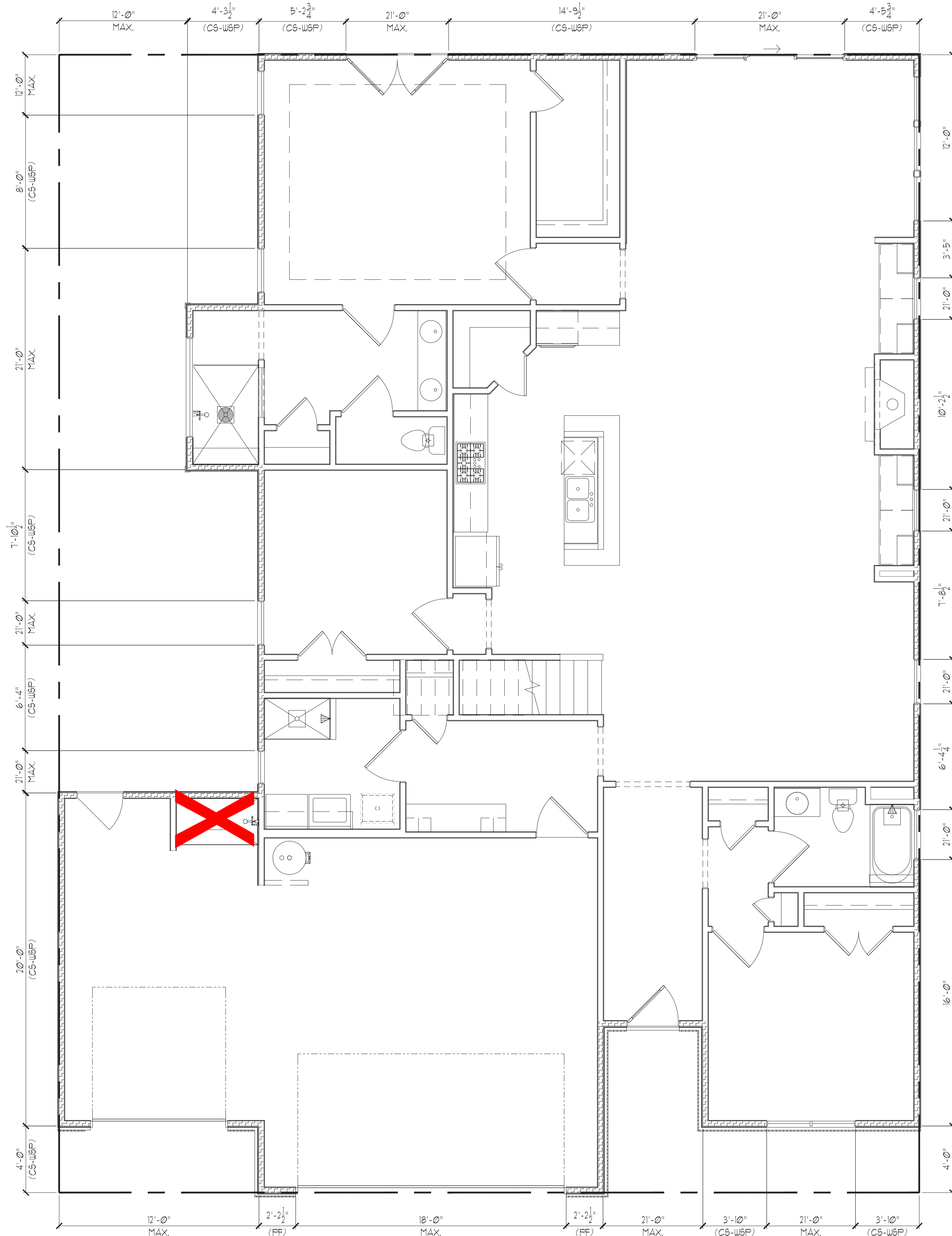
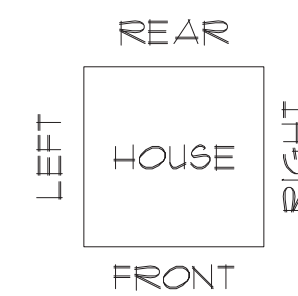
- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2018 NORTH CAROLINA RESIDENTIAL CODE.
- WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO 130 MPH.
- REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES.
- BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH TABLE R602.10.1.
- ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.10.1.
- THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
- FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
- FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- A BRACED WALL PANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH END OF A BRACED WALL LINE.
- THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 21 FEET.
- MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 40' OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.4.3 OF THE 2018 NCRS OR DETAIL 21/D2.
- BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.4.4.
- BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.4.5.
- CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10.4.6.
- PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.1 (UNO).
- ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS. ABBREVIATIONS:

GB = GYPSUM BOARD
 CS-XXX = CONT. SHEATHED
 FF = PORTAL FRAME

WSP = WOOD STRUCTURAL PANEL
 ENG = ENGINEERED SOLUTION
 FF-ENG = ENG. PORTAL FRAME

INSTALL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION R602.10.4 AND FIGURE R602.10.3(1) OF THE 2018 NCRS.

NOTE: WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R602.3.5 OF THE 2018 NCRS.



ELEVATION 1

FIRST FLOOR BRACING (FT)		
CONTINUOUS SHEATHING METHOD		
	REQUIRED	PROVIDED
FRONT SIDE	11.8	14.2
LEFT SIDE	9.2	46.2
REAR SIDE	11.8	28.1
RIGHT SIDE	9.2	41.6

SUMMIT
 ENGINEERING LABORATORY TESTING
 3070 HAMMOND BUSINESS PLACE, SUITE 171
 RALEIGH, NC 27603
 OFFICE: 919.380.9991
 FAX: 919.380.9993
 WWW.SUMMIT-COMPANIES.COM

SUMMIT
 Engineering, Laboratory & Testing, Inc.
 F-1454
 CERTIFICATE OF LICENSURE

CLIENT:
 CARUSO HOMES
 206 HIGH HOUSE ROAD, SUITE 205
 CARY, NC 27511

PROJECT:
 NCI III (Tillery I)
 First Floor Bracing Plan

NORTH CAROLINA
 PROFESSIONAL SEAL
 054005
 ENGINEER
 WESPINA FIGUEROA
 7/13/23
 STRUCTURAL MEMBERS ONLY

DRAWING
 DATE: 07/13/2023
 SCALE: 3/16" = 1'-0"
 PROJECT #: 431544R
 DRAWN BY: EPB
 CHECKED BY: JEF

ORIGINAL INFORMATION
 PROJECT #: 431544 DATE: 04/2/2023

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

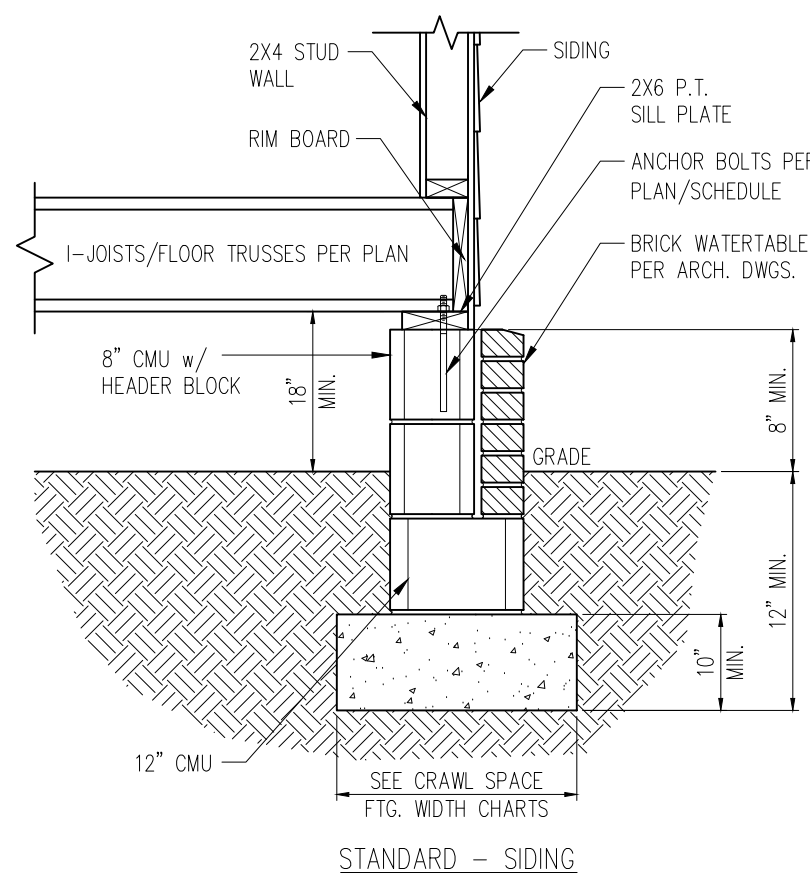
SHEET
S7.0

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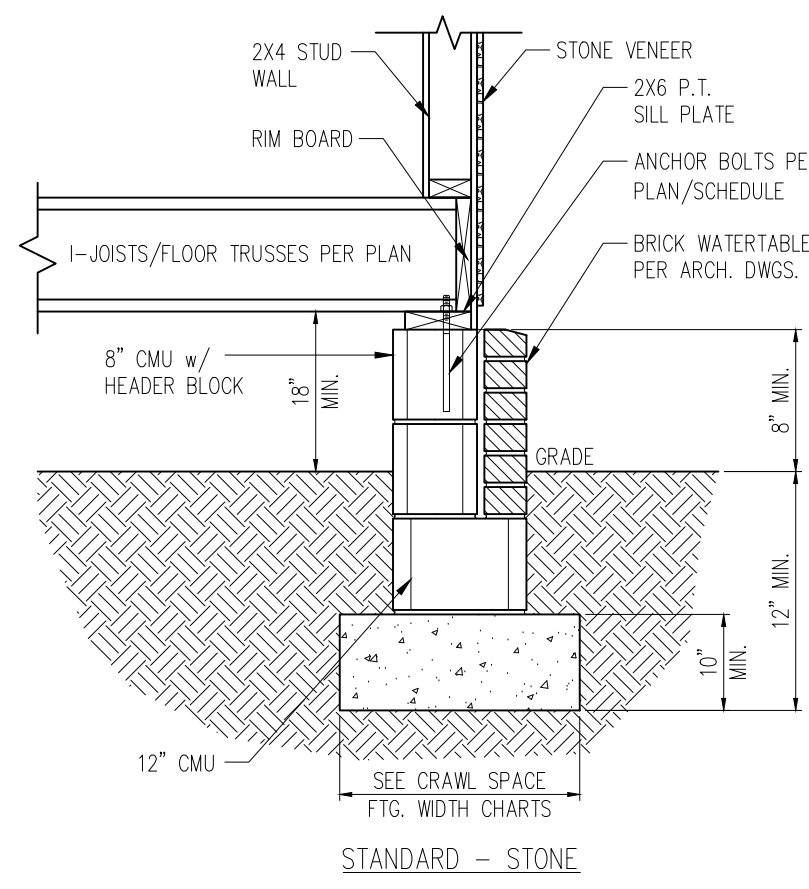
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STRUCTURAL ANALYSIS BASED ON 2018 NCRS.

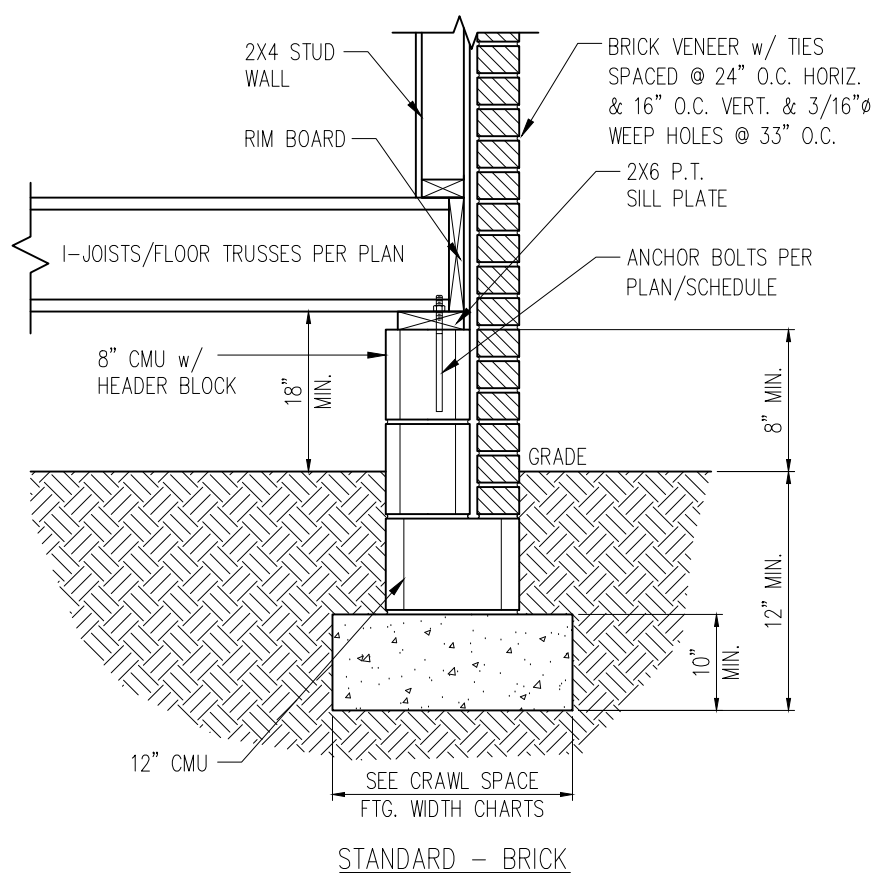
FIRST FLOOR BRACING PLAN
 SCALE: 1/4" = 1'



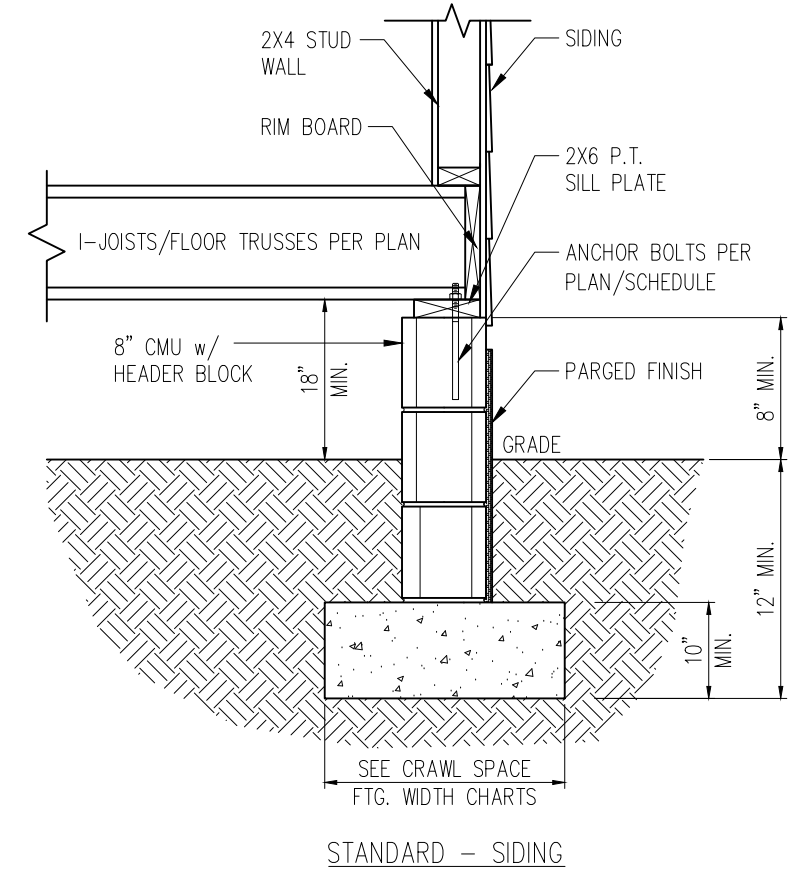
1 TYP. FOUNDATION WALL DETAIL
D1c NTS



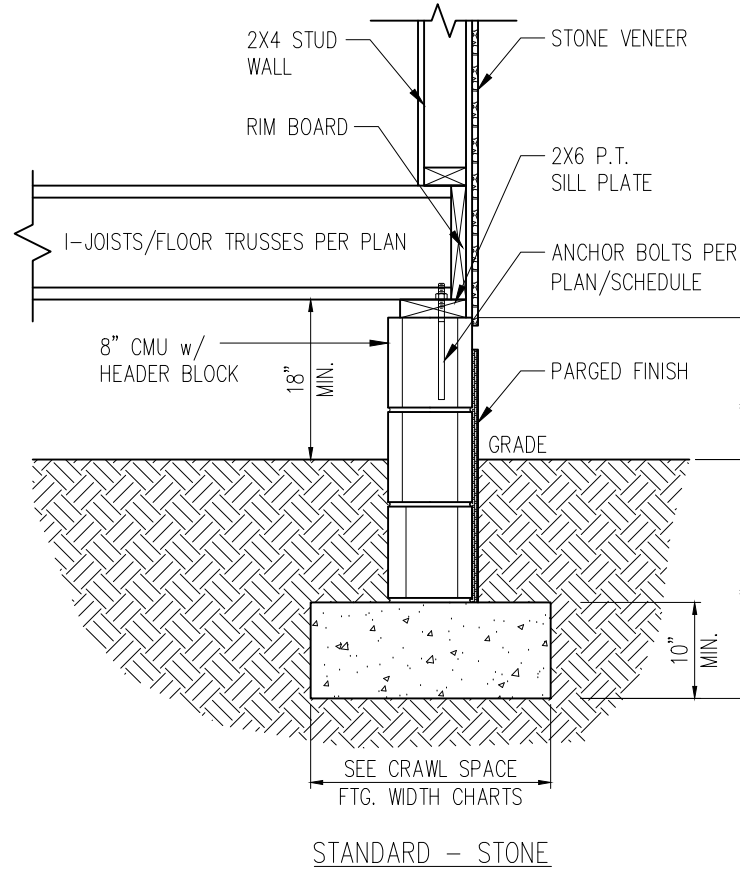
2 TYP. FOUNDATION WALL DETAIL
D1c NTS



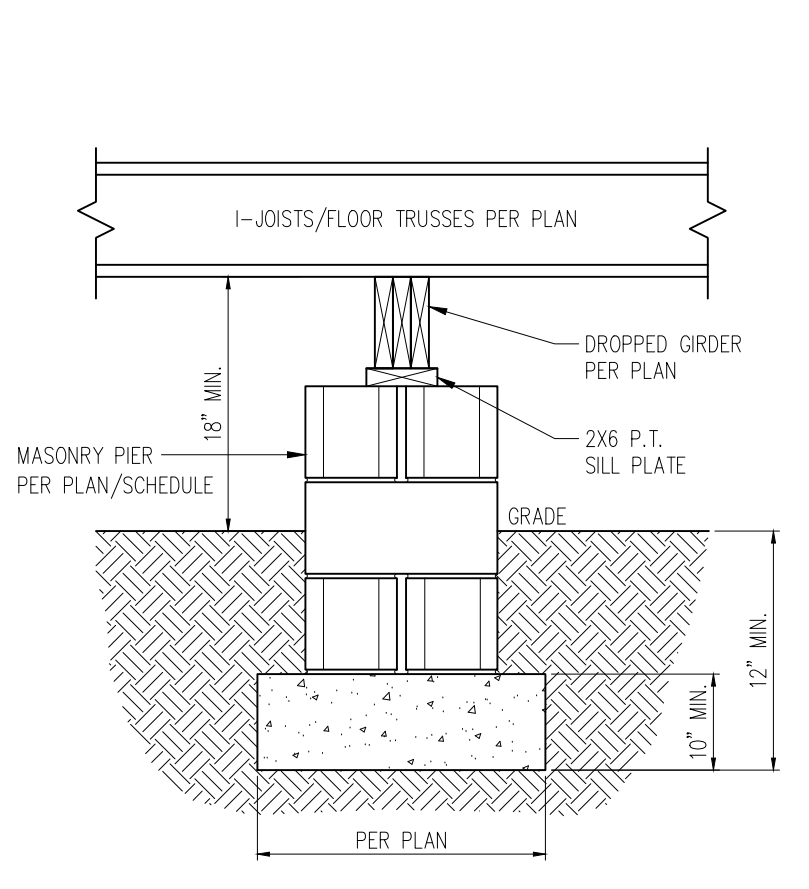
3 TYP. FOUNDATION WALL DETAIL
D1c NTS



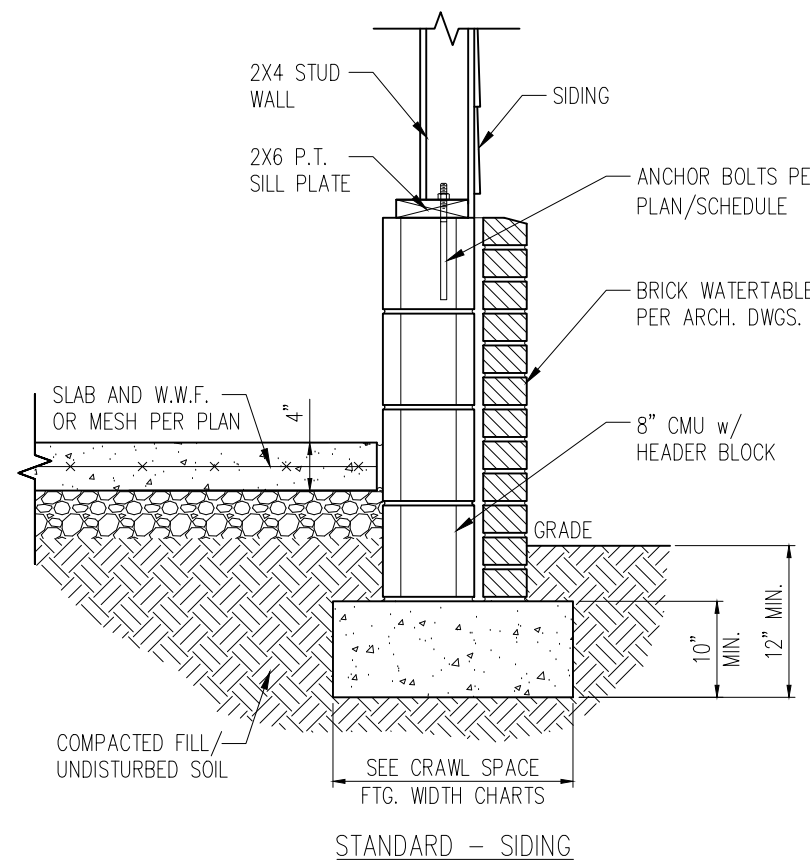
4a FOUNDATION WALL DETAIL w/ PARGED FINISH
D1c NTS



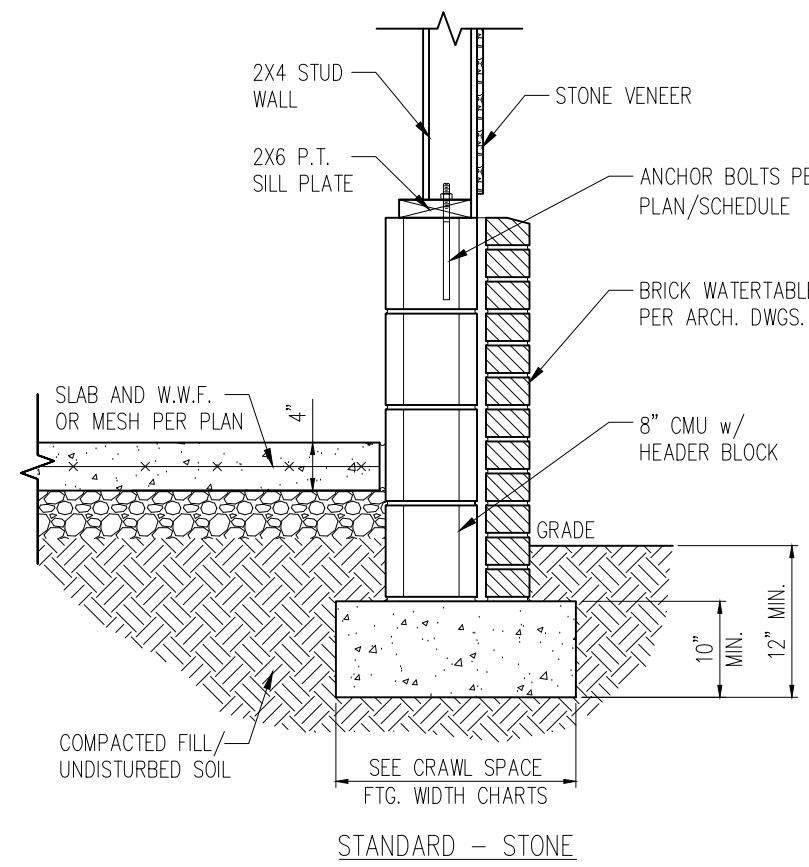
5 TYP. FOUNDATION WALL DETAIL
D1c NTS



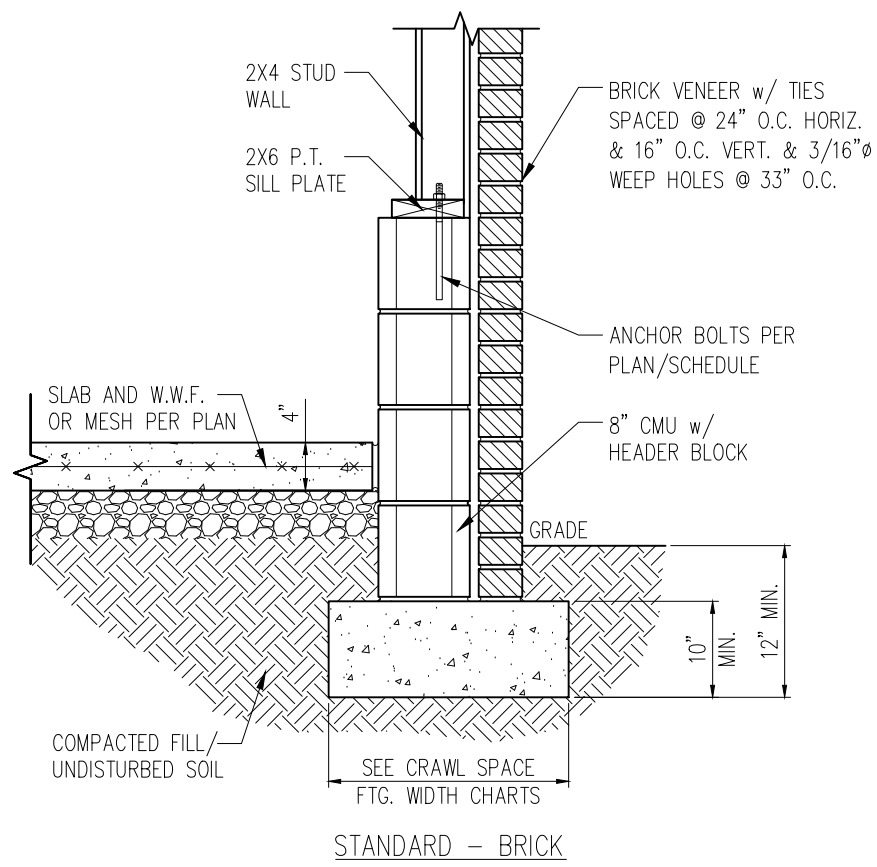
2 TYP. PIER & GIRDER DETAIL
D1c NTS



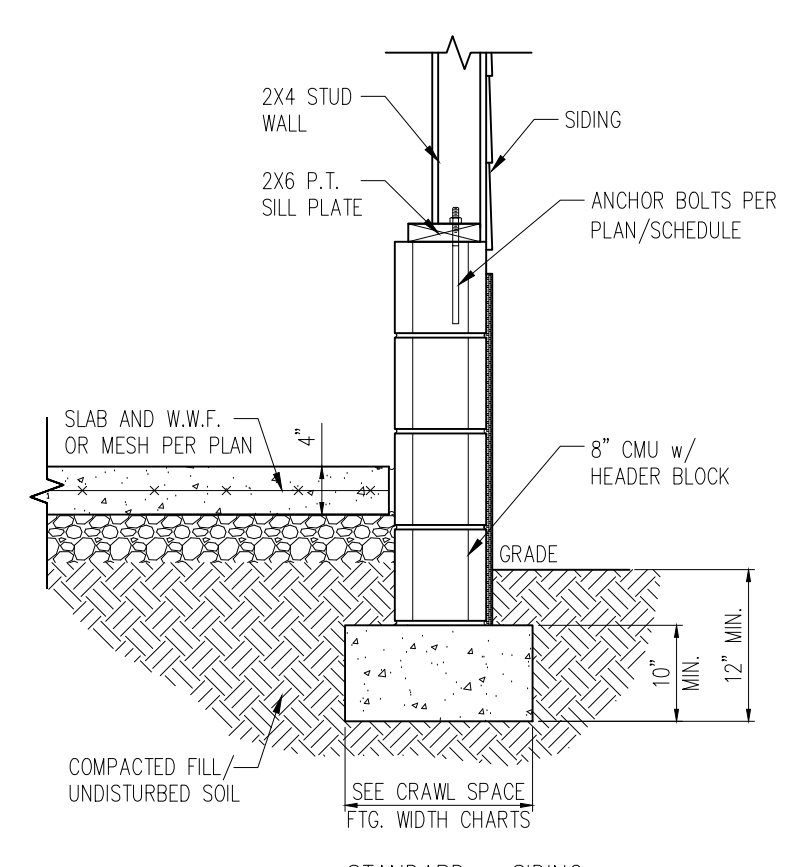
3 TYP. GARAGE CURB DETAIL
D1c NTS



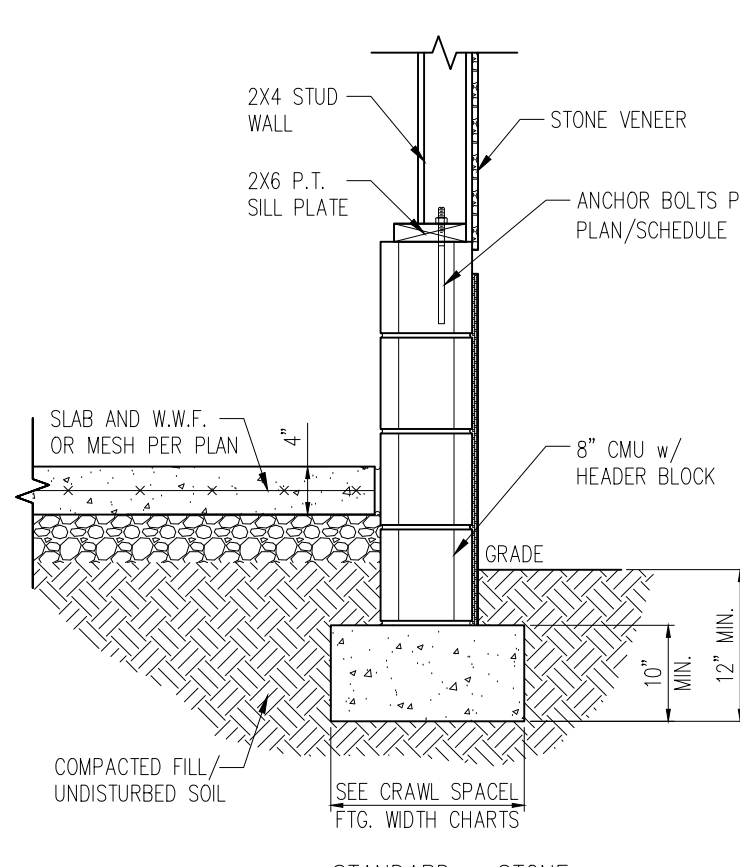
4 TYP. GARAGE CURB DETAIL
D1c NTS



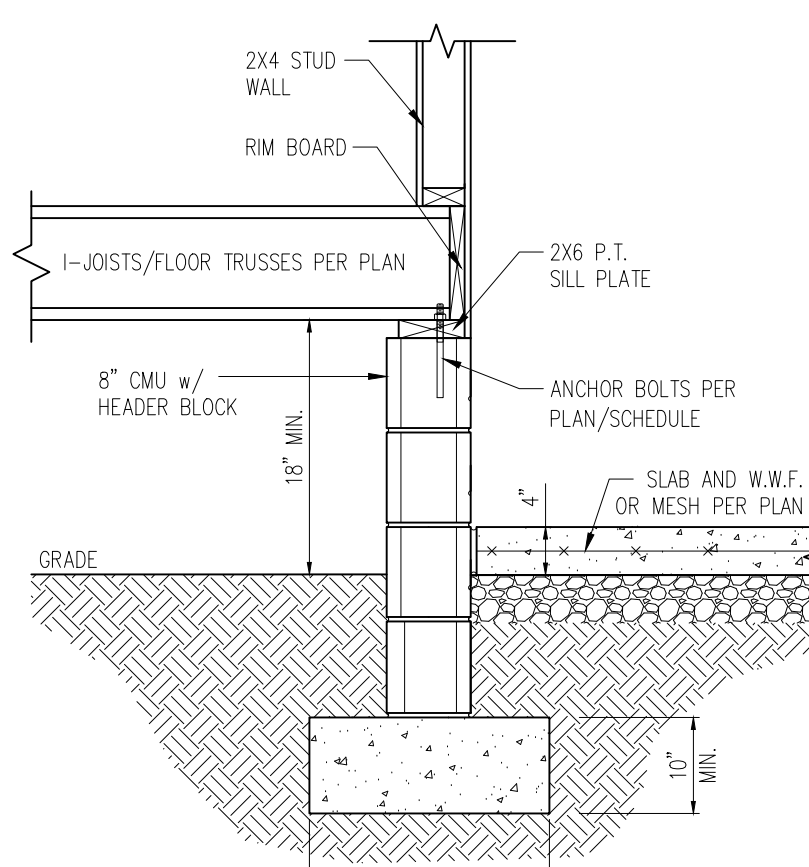
5 TYP. GARAGE CURB DETAIL
D1c NTS



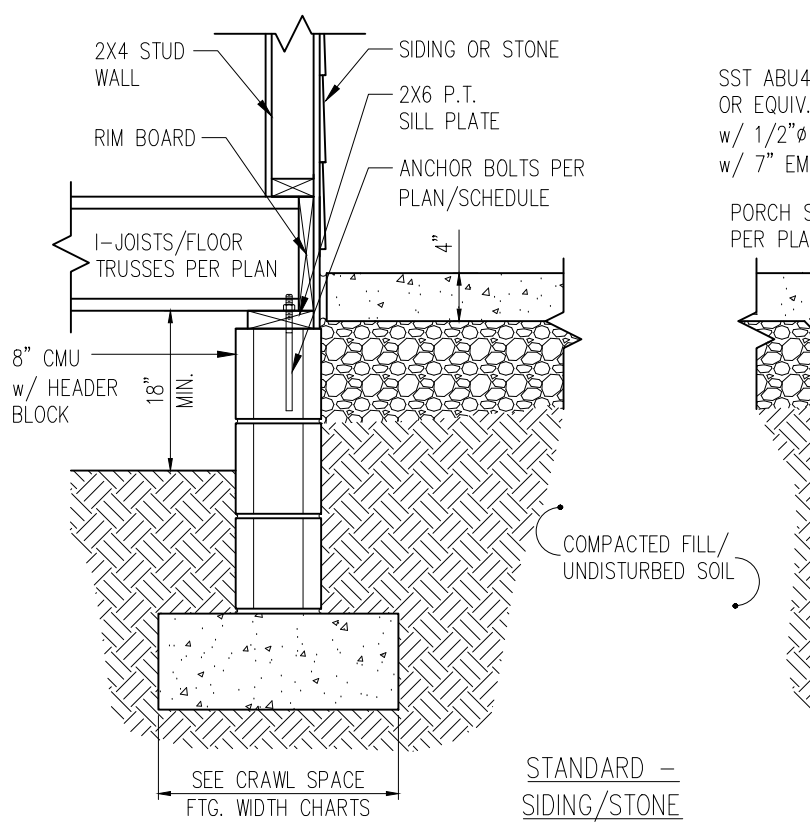
3a GARAGE CURB DETAIL w/ PARGED FINISH
D1c NTS



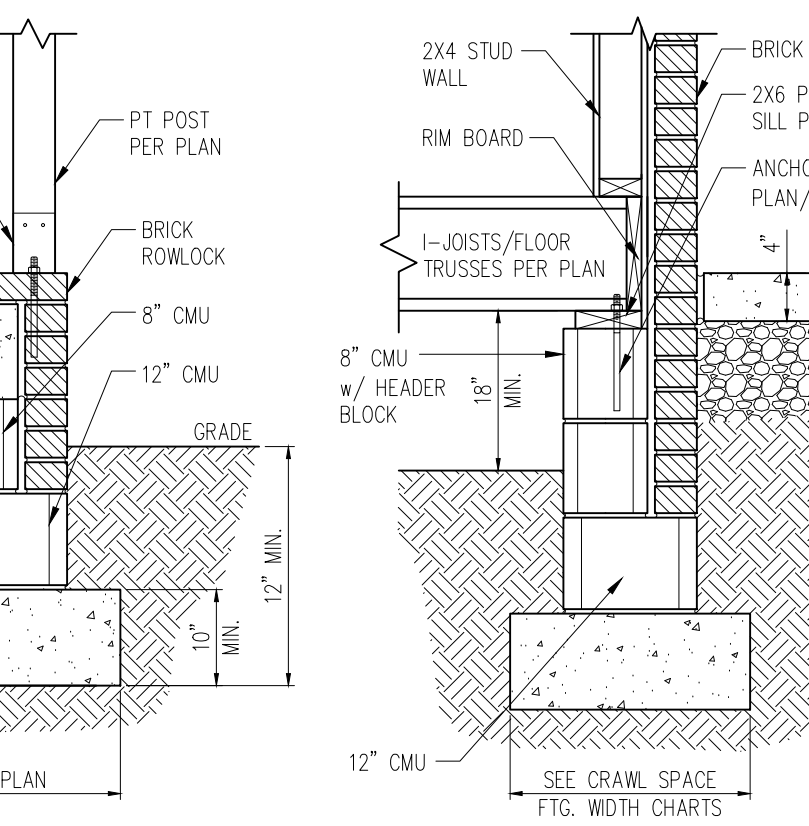
7 TYP. GARAGE CURB DETAIL
D1c NTS



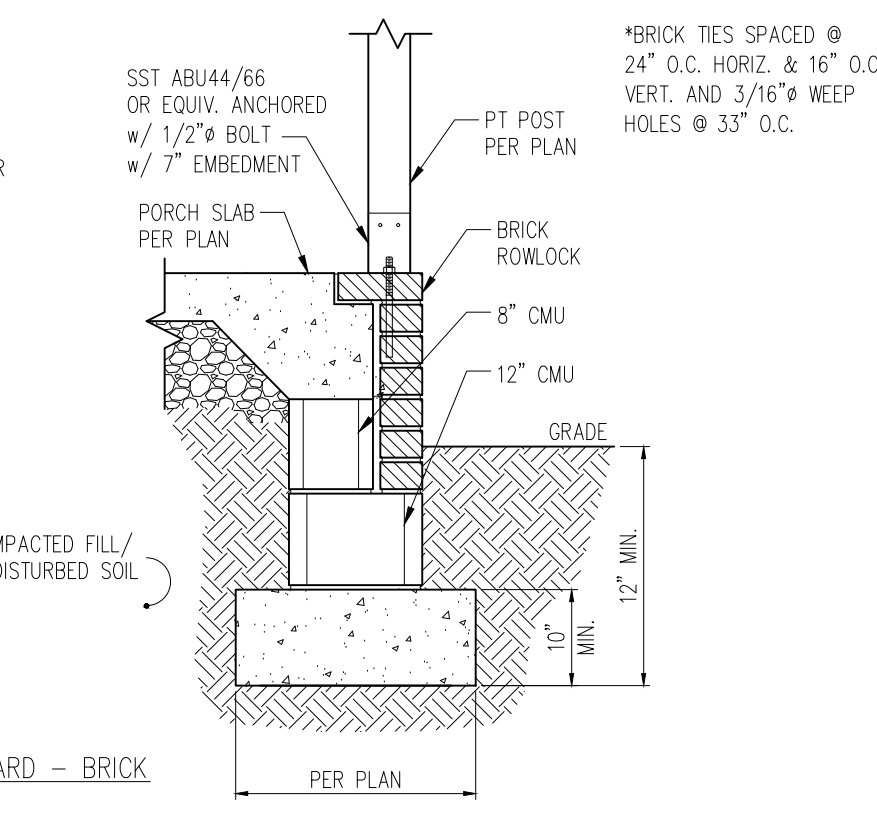
4 HOUSE/GARAGE WALL DETAIL
D1c NTS



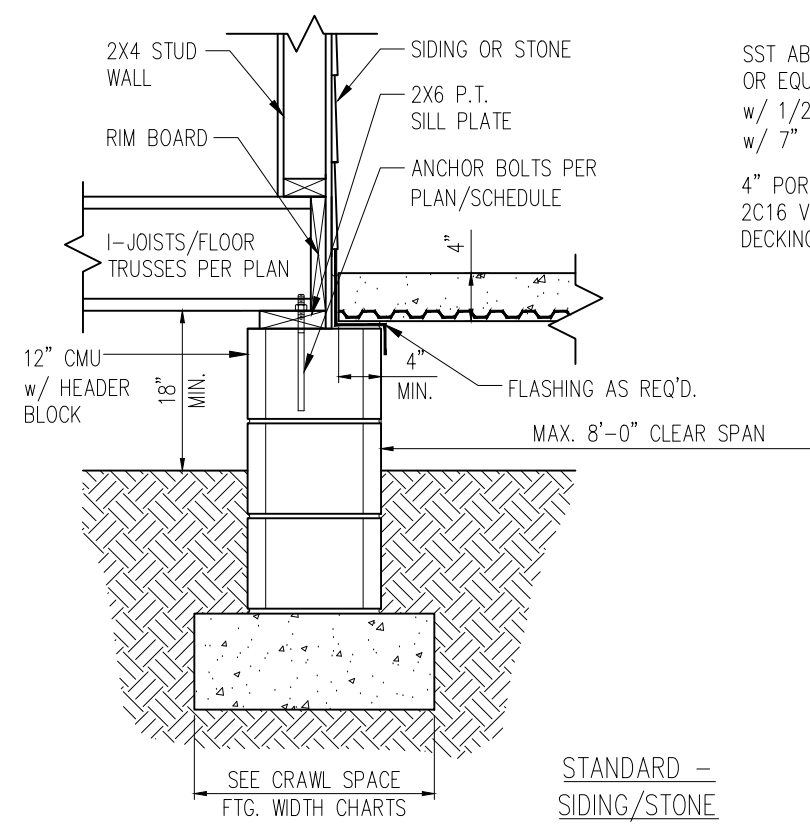
5 TYP. FRONT PORCH DETAIL
D1c NTS



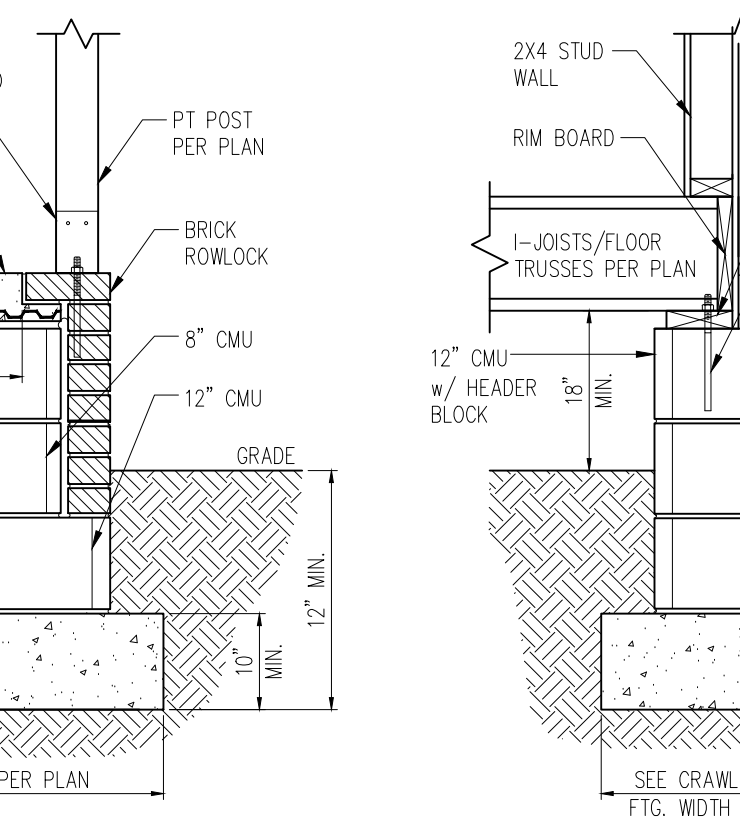
6 TYP. FRONT PORCH DETAIL
D1c NTS



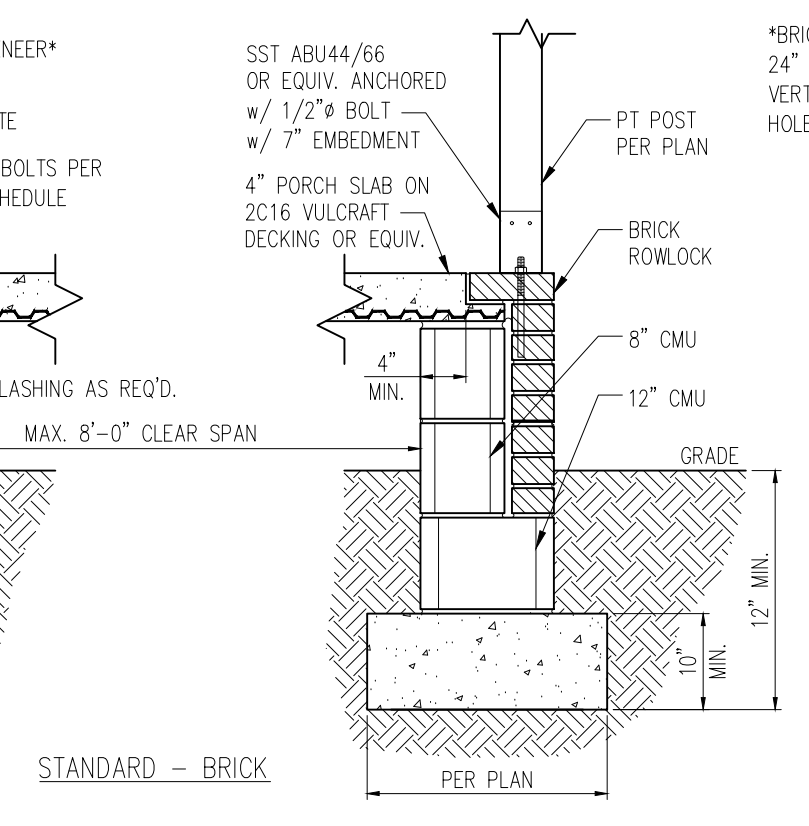
7 TYP. FRONT PORCH DETAIL
D1c NTS



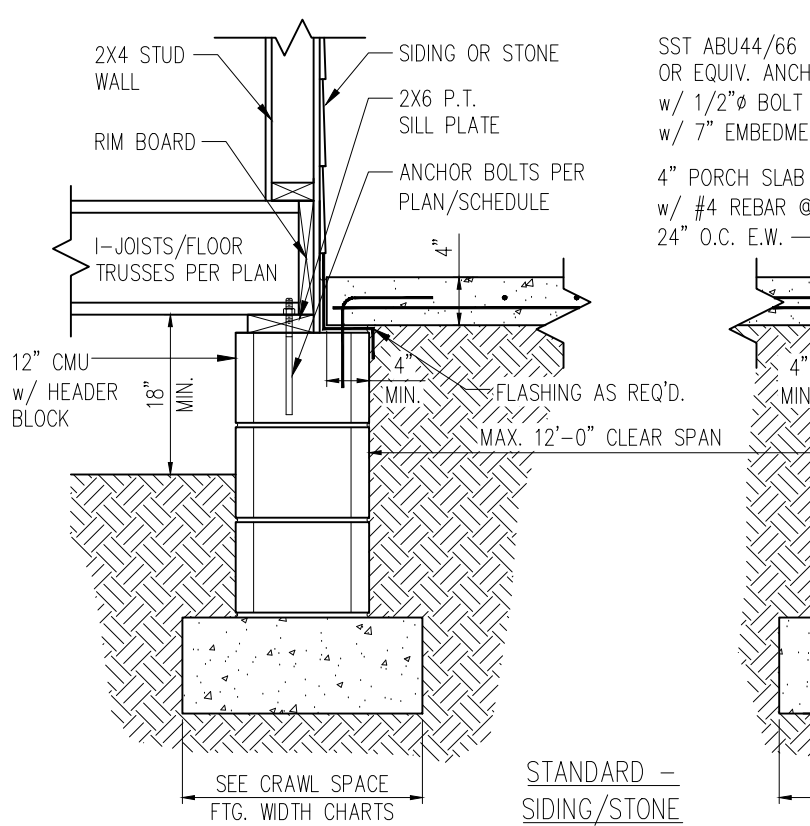
8a FRONT PORCH DETAIL w/ SUSPENDED SLAB
D1b NTS



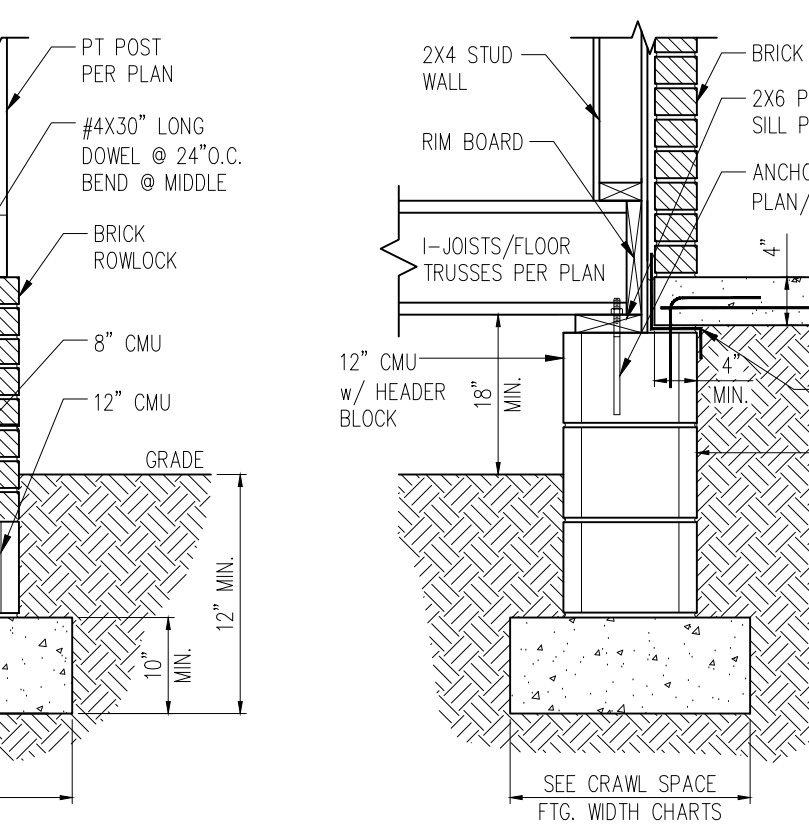
9 TYP. FRONT PORCH DETAIL
D1c NTS



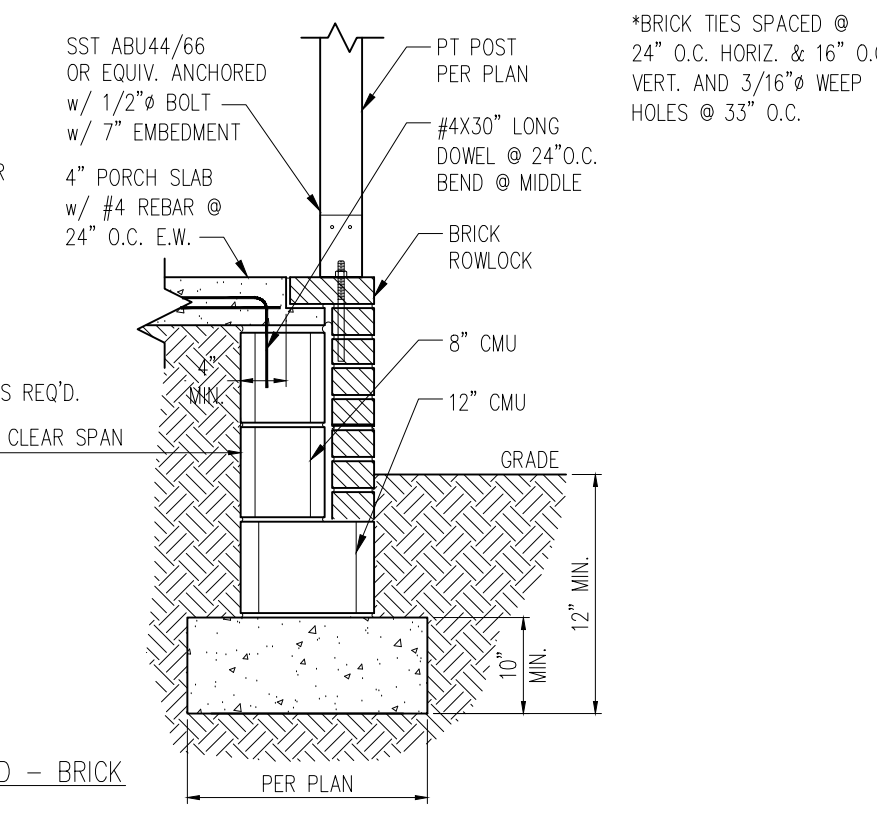
10 TYP. FRONT PORCH DETAIL
D1c NTS



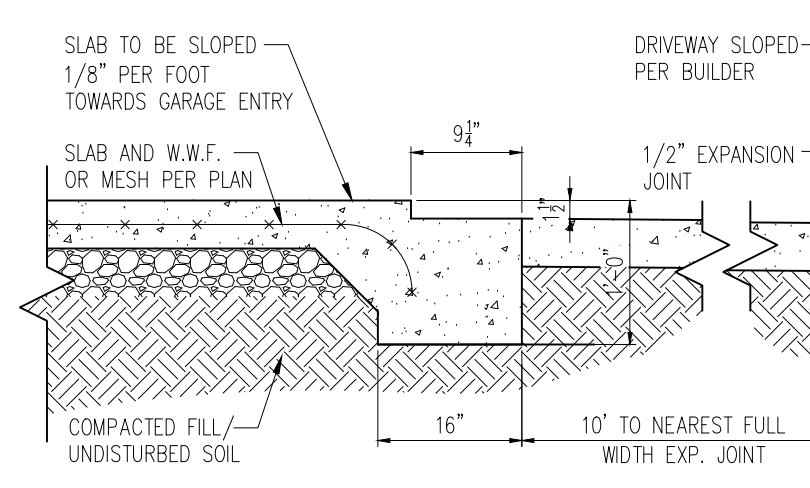
5b ALT. FRONT PORCH DETAIL w/ SUSPENDED SLAB
D1c NTS



6b TYP. FRONT PORCH DETAIL
D1c NTS



7b TYP. FRONT PORCH DETAIL
D1c NTS



6 SLAB AT GARAGE DOOR
D1c NTS

- NOTES:
1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS1 FOR ADDITIONAL INFORMATION.
2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
3. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.

CRAWL SPACE FOOTING WIDTH

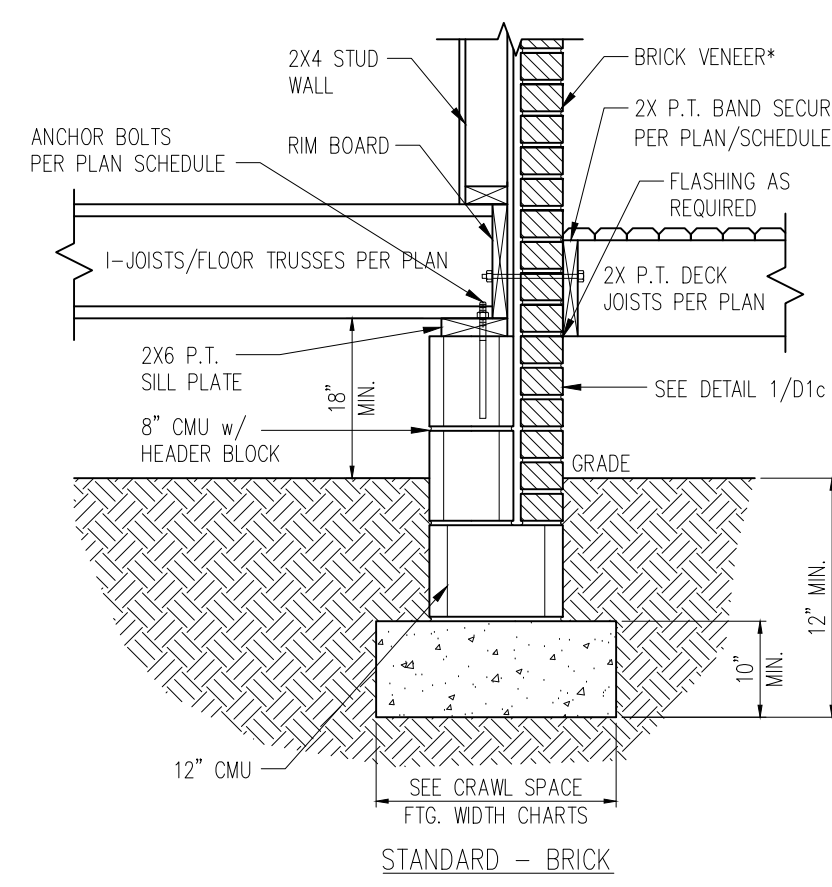
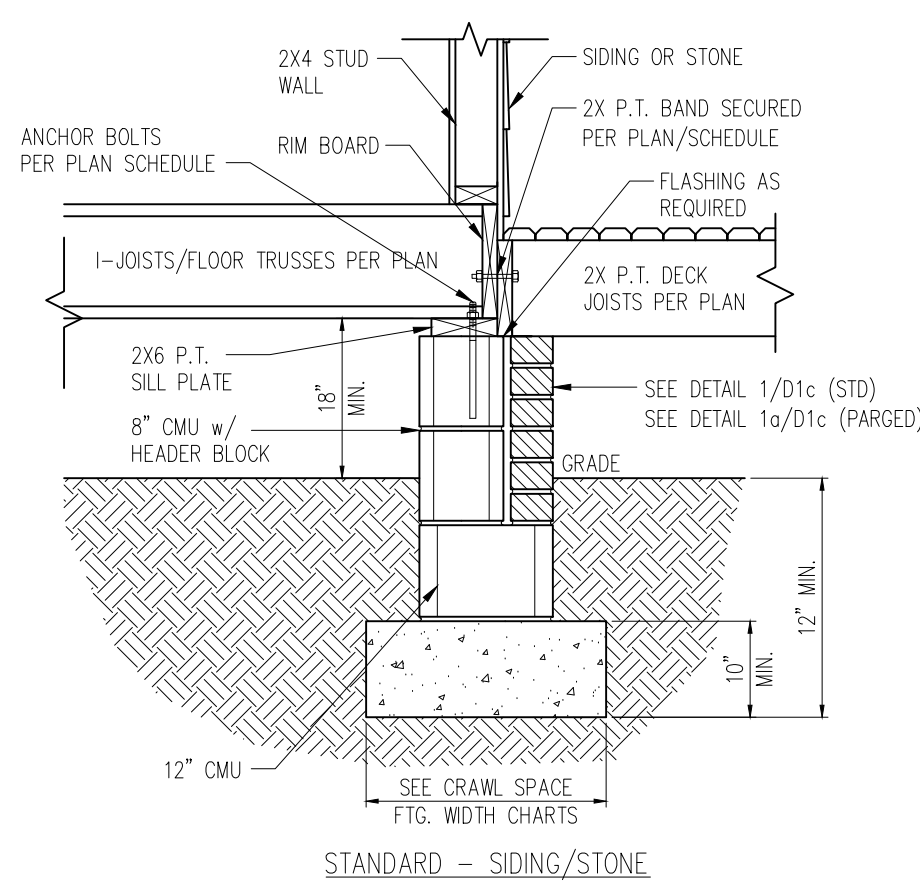
# OF STORES	MIN. WIDTH BASED ON SOIL BEARING CAPACITY	1500 PSF	2000 PSF	2500 PSF
1 STORY - STD.	16"	16"	16"	16"
1 STORY - BRICK VENEER	21"	21"	21"	21"
2 STORY - STD.	20"	16"	16"	16"
2 STORY - BRICK VENEER	25"	21"	21"	21"

*5" BRICK LEDGE HAS BEEN ADDED TO THE CRAWL SPACE FOOTING WIDTH FOR BRICK SUPPORT

WALL ANCHOR SCHEDULE

TYPE OF ANCHOR	MIN. CONC. EMBEDMENT	SPACING	INTERIOR WALL	EXTERIOR WALL
1/2" A307 BOLTS w/ STD. 90° BEND	7"	6'-0"	YES	YES
SST - MAS	4"	5'-0"	NO	YES
HILT KWIK BOLT KBI 1/2-2-3/4	2-1/4"	6'-0"	YES	NO
1/2" HILT THREADED ROD w/ HIT HY50 ADHESIVE	7"	6'-0"	YES	YES

NOTE: INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM PLATE ENDS AND JOINTS.



*BRICK TIES SPACED @ 24" O.C. HORIZ. & 16" O.C. VERT. AND 3/16" WEEP HOLES @ 33" O.C.

DECK ATTACHMENT SCHEDULE (ALL STRUCTURES EXCEPT BRICK)

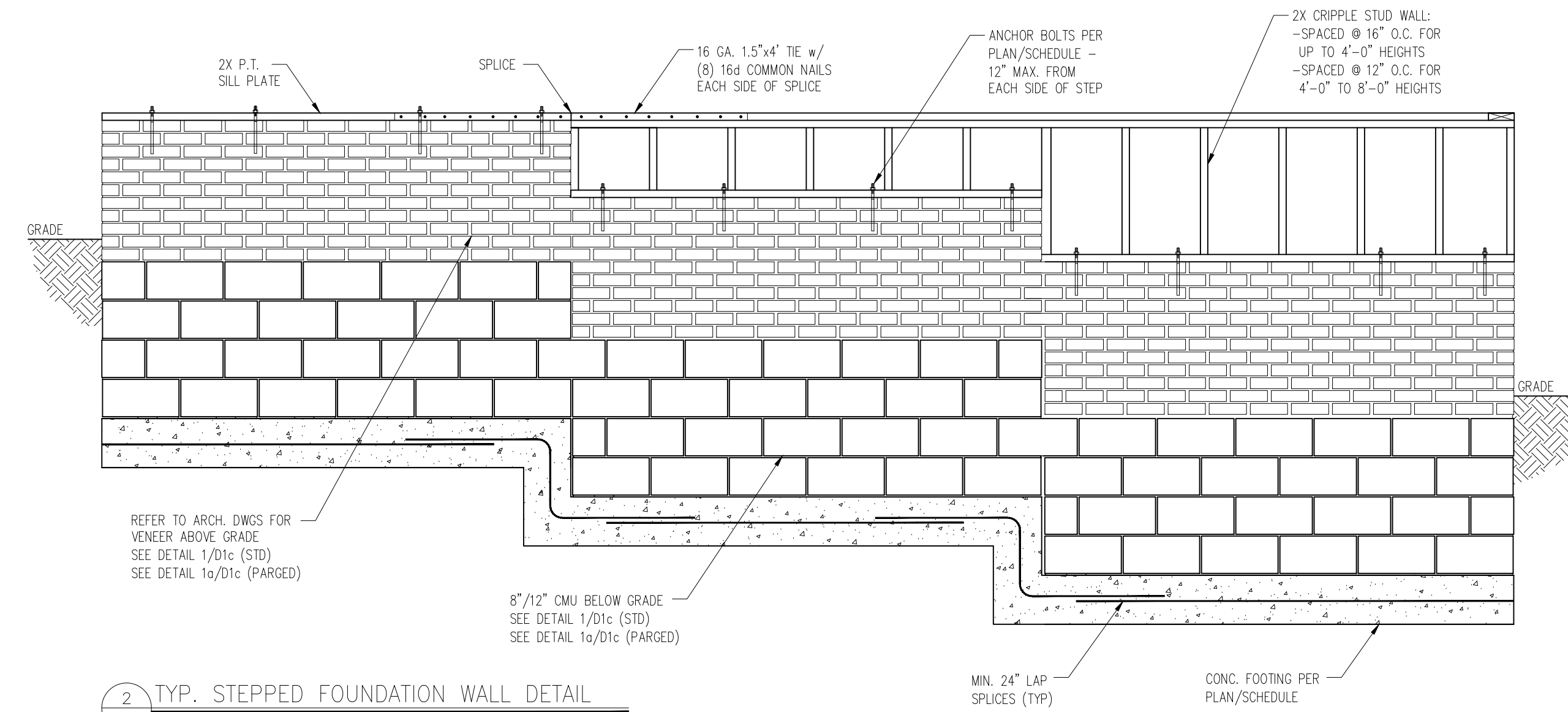
FASTENERS	MAX. 8'-0" JOIST SPAN	MAX. 16'-0" JOIST SPAN
5/8" GALV. BOLTS w/ NUT & WASHER*	(1) @ 3'-6" O.C.	(1) @ 1'-8" O.C.
AND	AND	AND
12d COMMON GALV. NAILS*	(2) @ 8" O.C.	(3) @ 6" O.C.

a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.
 b. MINIMUM EDGE DISTANCE FOR BOLTS IS 2".
 c. NAILS MUST PENETRATE THE SUPPORTING STRUCTURE BAND A MINIMUM OF 1 1/2"

DECK ATTACHMENT SCHEDULE (BRICK STRUCTURES)

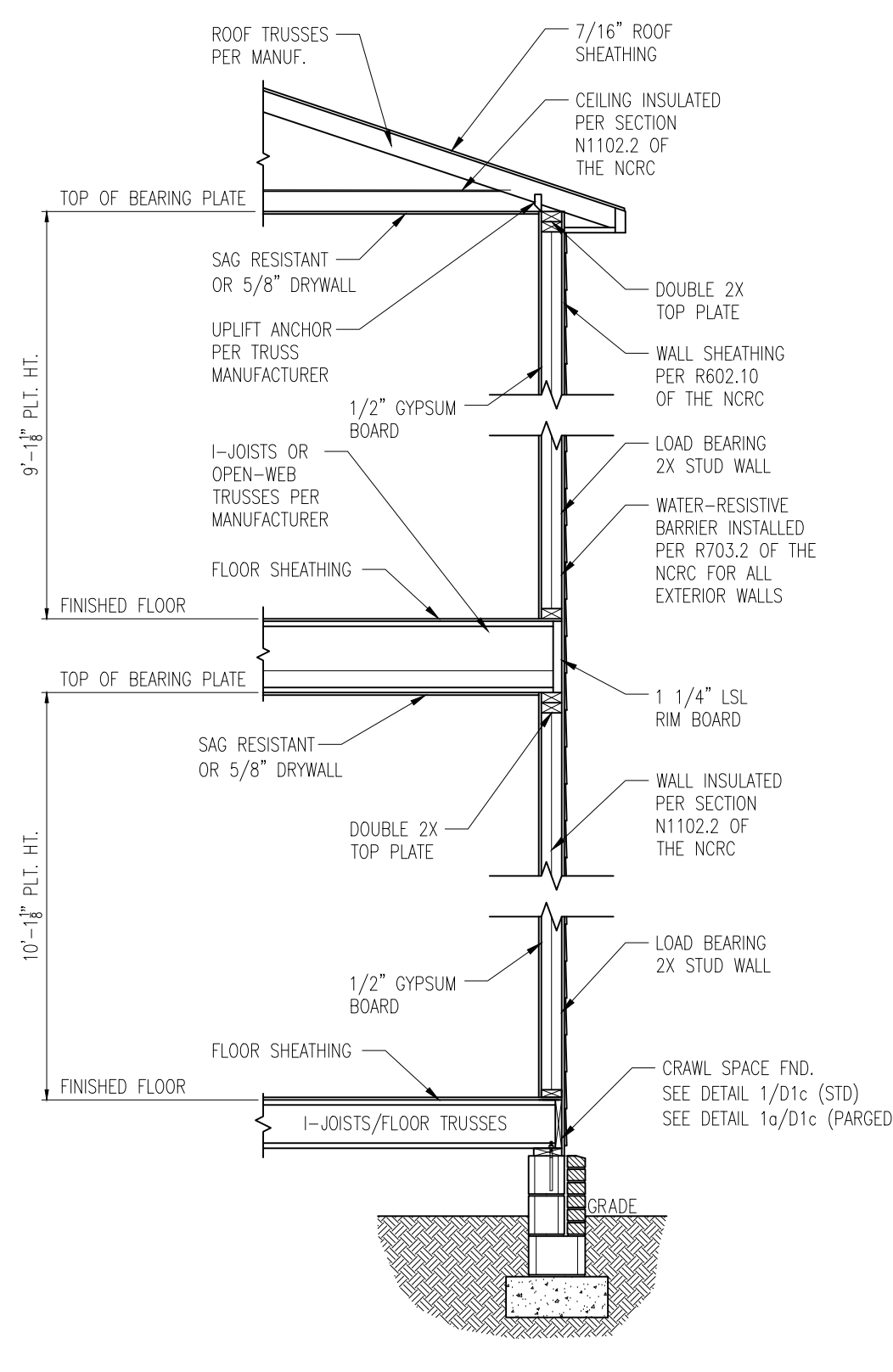
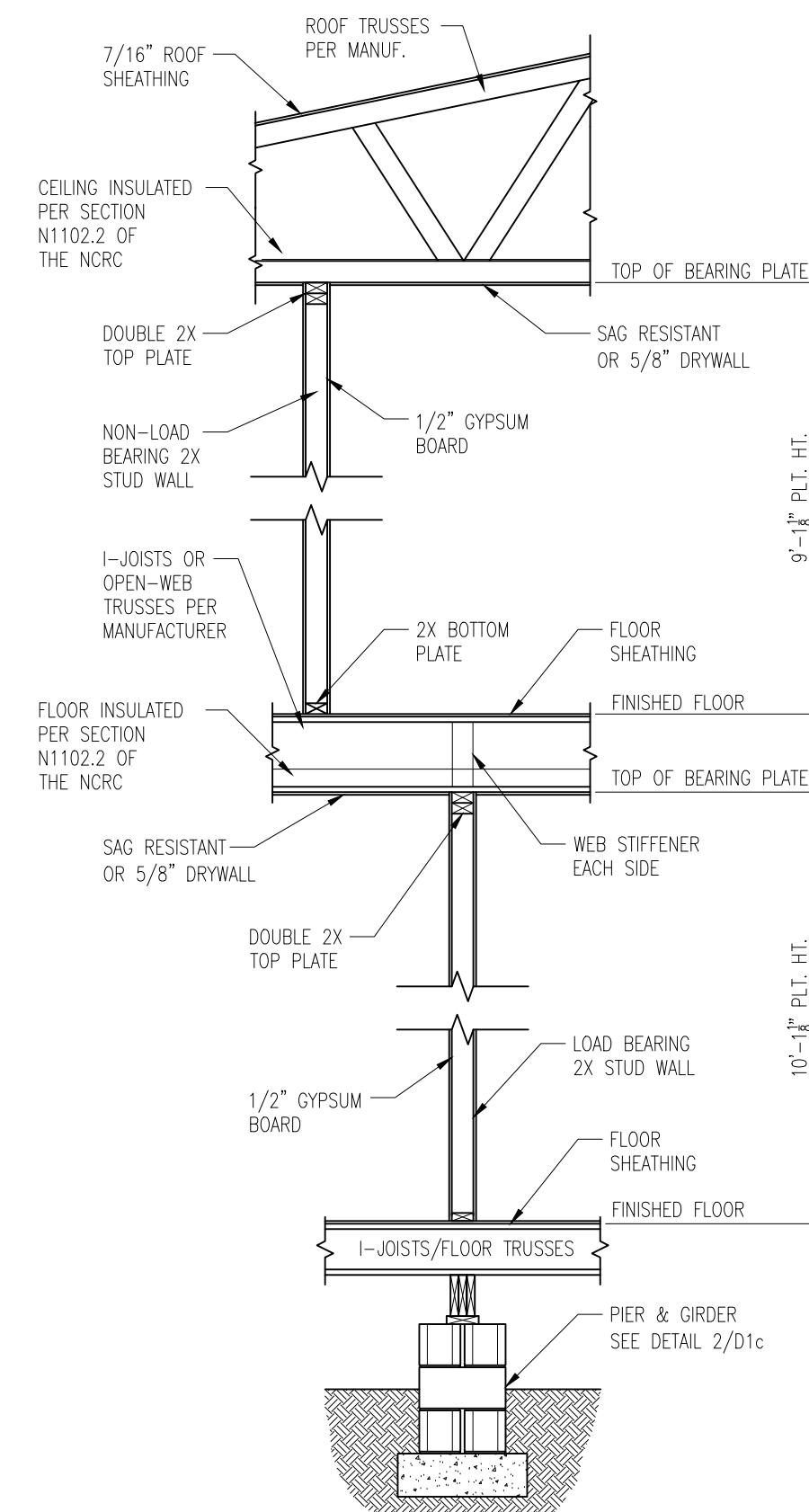
FASTENERS	MAX. 8'-0" JOIST SPAN	MAX. 16'-0" JOIST SPAN
5/8" GALV. BOLTS w/ NUT & WASHER*	(1) @ 2'-4" O.C.	(1) @ 1'-4" O.C.

a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.
 b. MINIMUM EDGE DISTANCE FOR BOLTS IS 2".



1 DECK ATTACHMENT DETAIL
D2c NTS

2 TYP. STEPPED FOUNDATION WALL DETAIL
D2c NTS



3 TYP. INTERIOR LOAD BEARING WALL SECTION
D2c NTS

4 TYP. EXTERIOR LOAD BEARING WALL SECTION
D2c NTS

-SIMILAR w/ BRICK AND STONE
 -BRICK TIES SPACED @ 24" O.C. HORIZ. & 16" O.C. VERT.
 -MIN. 3/16" WEEP HOLES @ 33" O.C.

- NOTES:
- REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS1 FOR ADDITIONAL INFORMATION.
 - PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
 - SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.

CRAWL SPACE FOOTING WIDTH

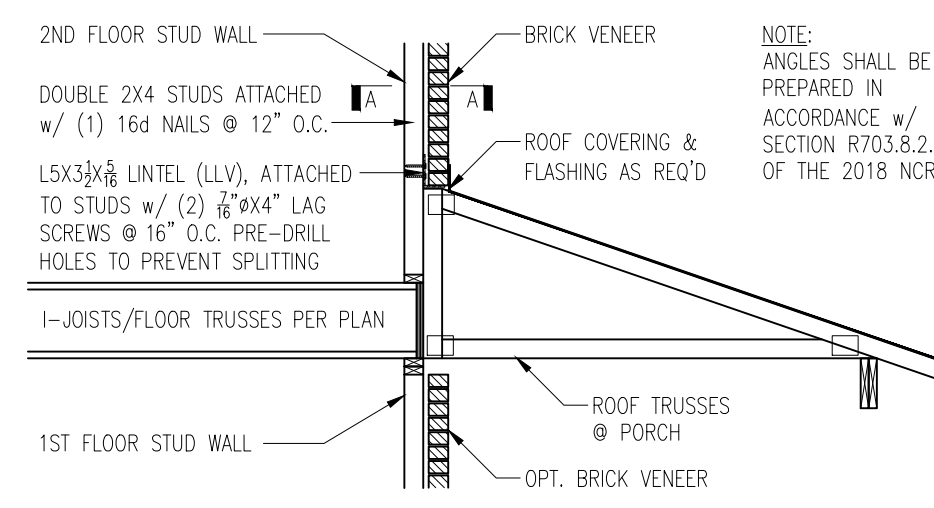
# OF STORES	WIDTH BASED ON SOIL BEARING CAPACITY		
	1500 PSF	2000 PSF	2500 PSF
1 STORY - STD.	16"	16"	16"
1 STORY - BRICK VENEER	21"	21"	21"
2 STORY - STD.	20"	16"	16"
2 STORY - BRICK VENEER	25"	21"	21"

*5" BRICK LEDGE HAS BEEN ADDED TO THE CRAWL SPACE FOOTING WIDTH FOR BRICK SUPPORT

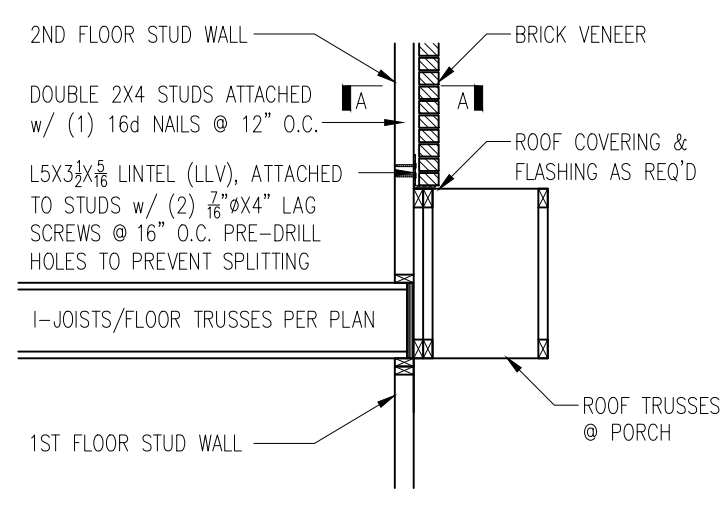
WALL ANCHOR SCHEDULE

TYPE OF ANCHOR	MIN. CONC. EMBEDMENT	SPACING	INTERIOR WALL	EXTERIOR WALL
1/2" A307 BOLTS w/ STD. 90° BEND	7"	6'-0"	YES	YES
SST - MAS	4"	5'-0"	NO	YES
HILTI KWIK BOLT KBI 1/2-2-3/4	2-1/4"	6'-0"	YES	NO
1/2" HILT THREADED ROD w/ HIT HYISO ADHESIVE.	7"	6'-0"	YES	YES

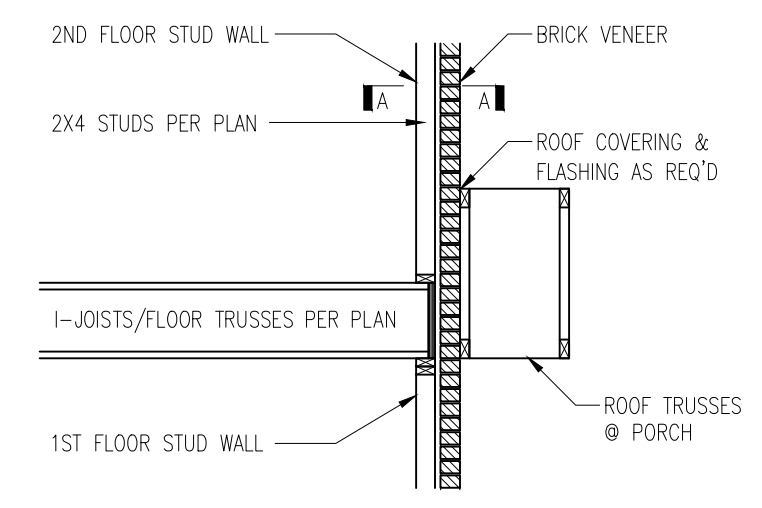
NOTE: INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM PLATE ENDS AND JOINTS.



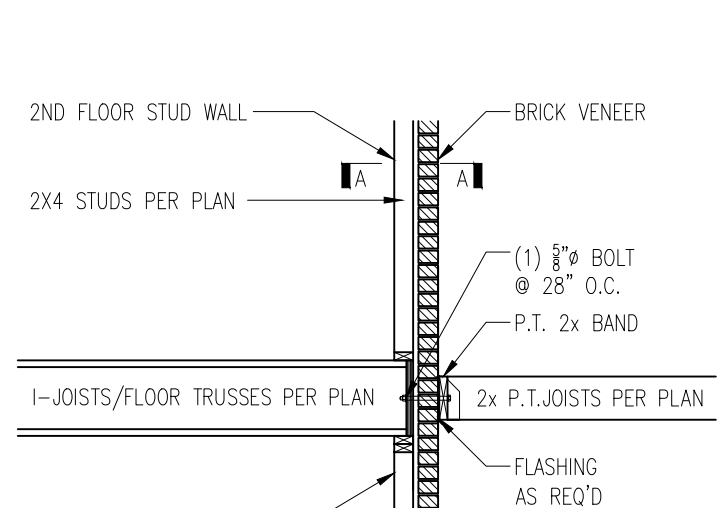
1 BRICK SUPPORT ABOVE STORAGE/PORCH ROOF DETAIL
D1f NTS



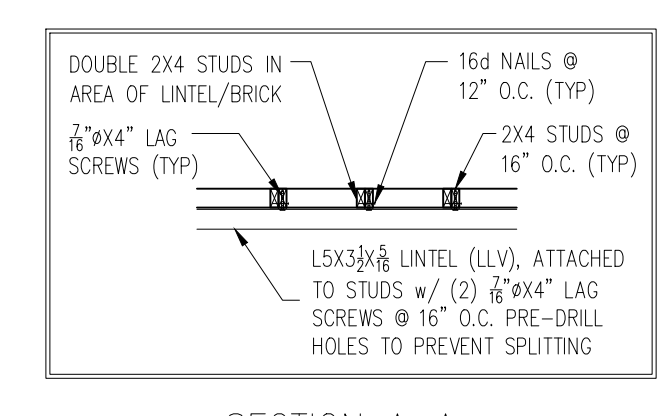
2 TRUSSES PARALLEL TO STUD WALL
D1f NTS



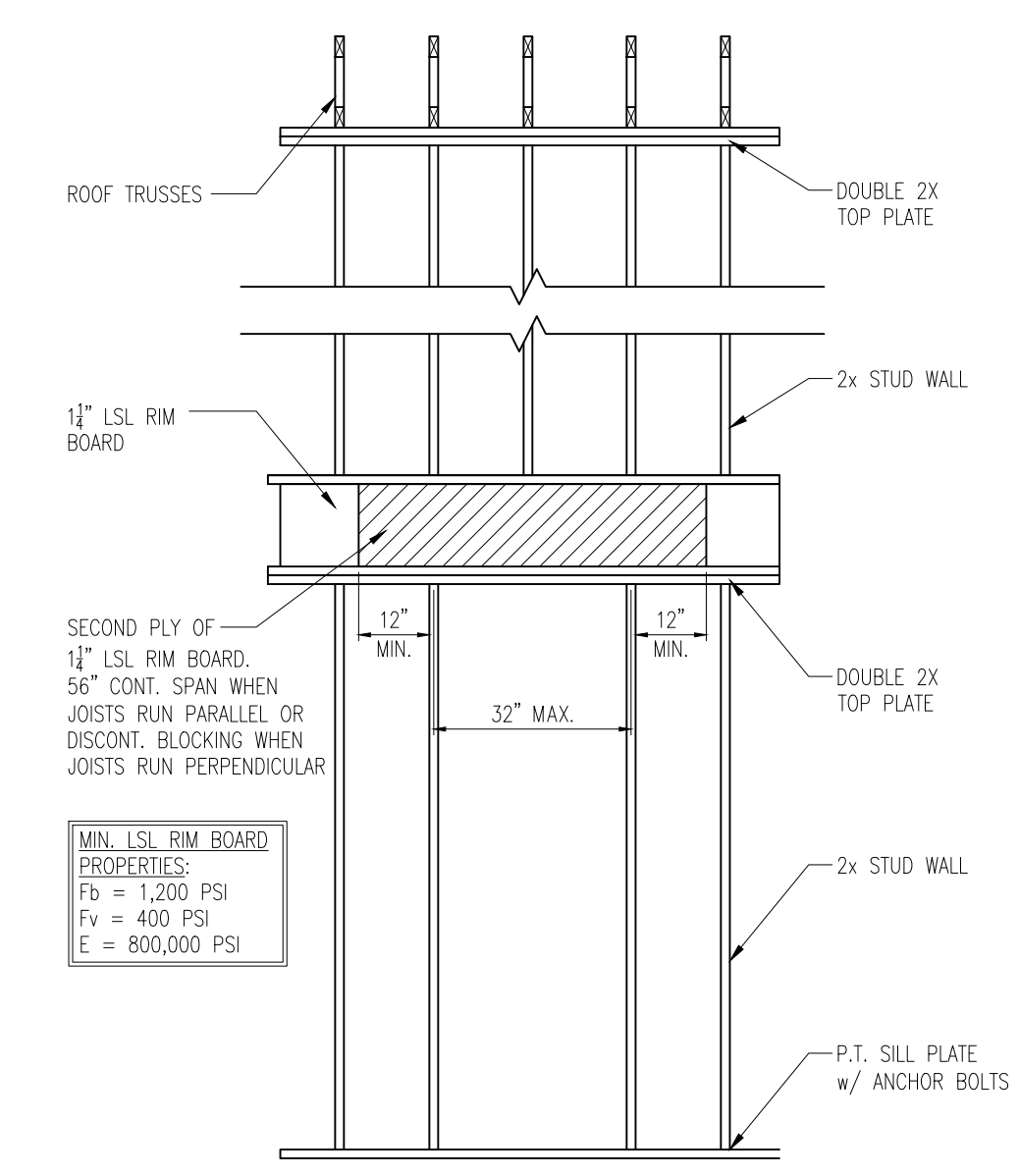
3 TRUSSES PARALLEL TO STUD WALL w/ CONTINUOUS BRICK VENEER
D1f NTS



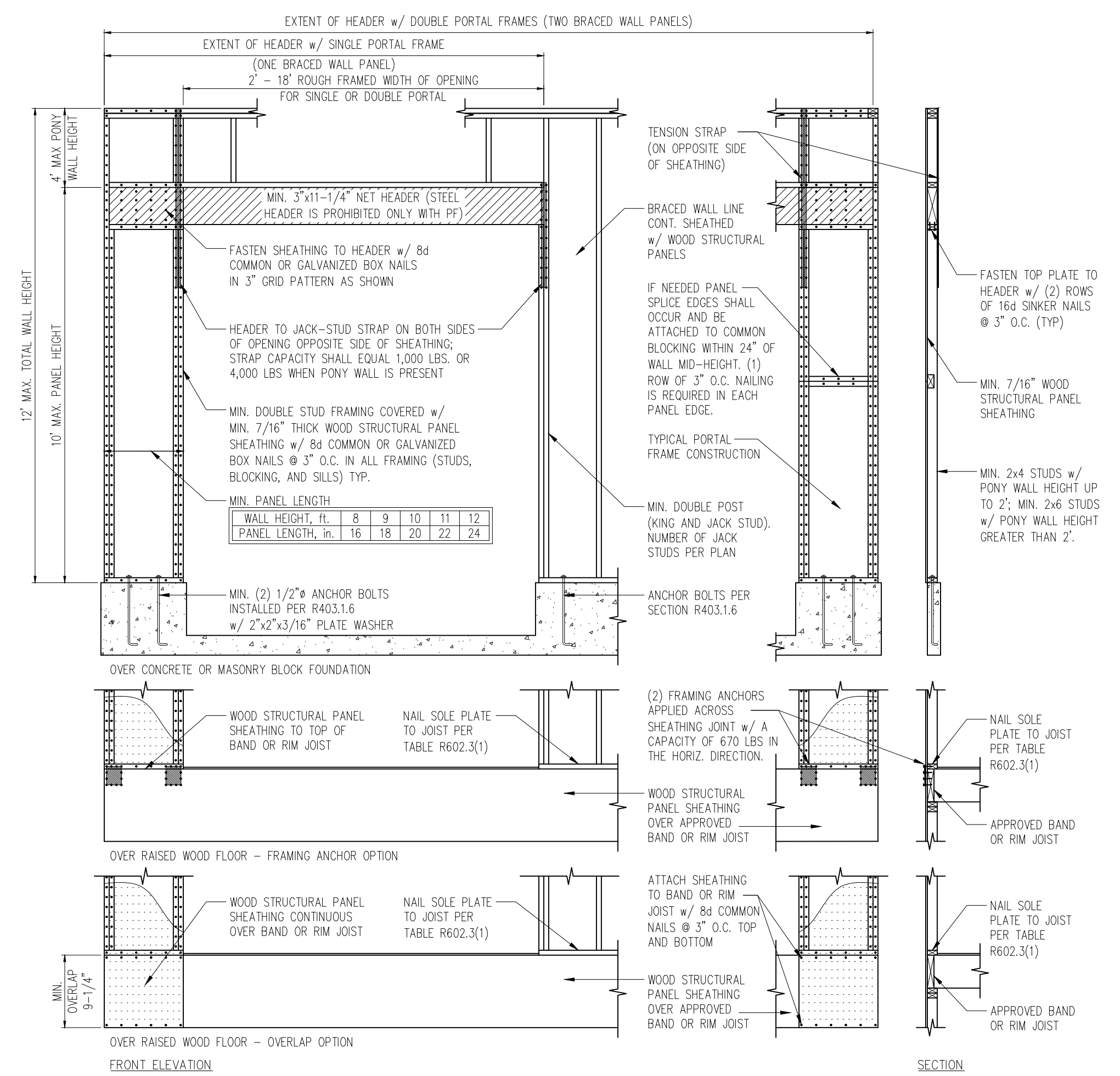
4 BALCONY JOIST ATTACHMENT
D1f NTS



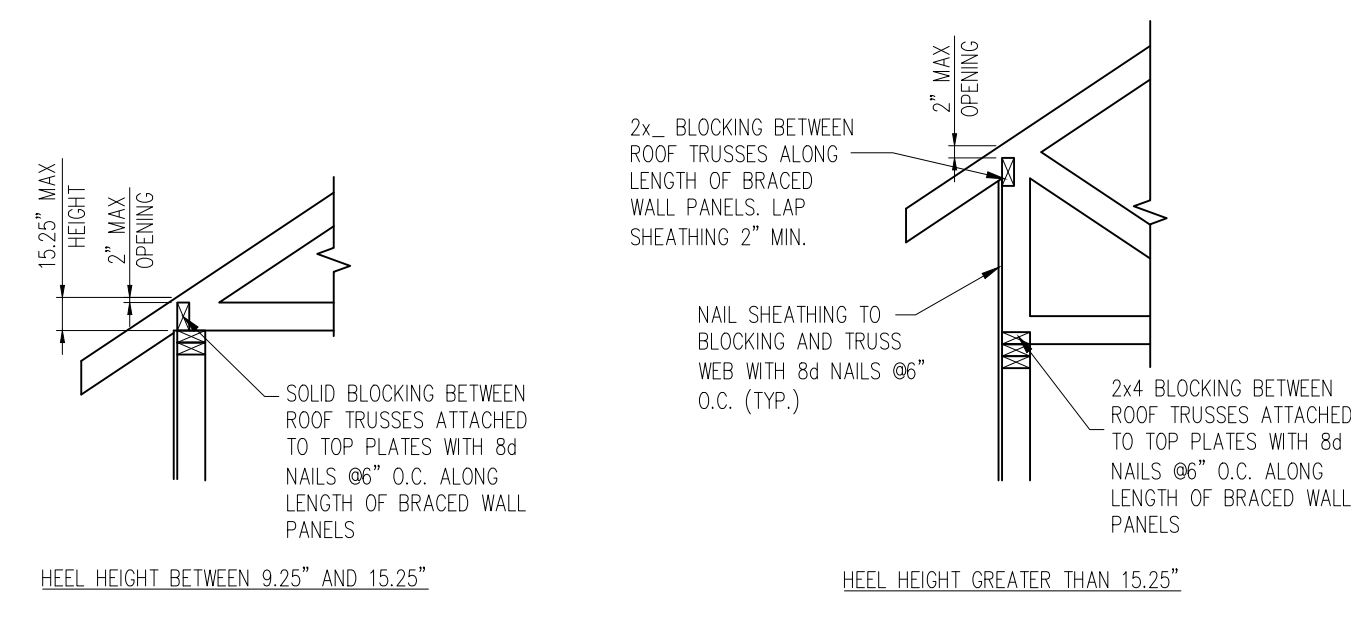
5 SECTION A-A
NTS



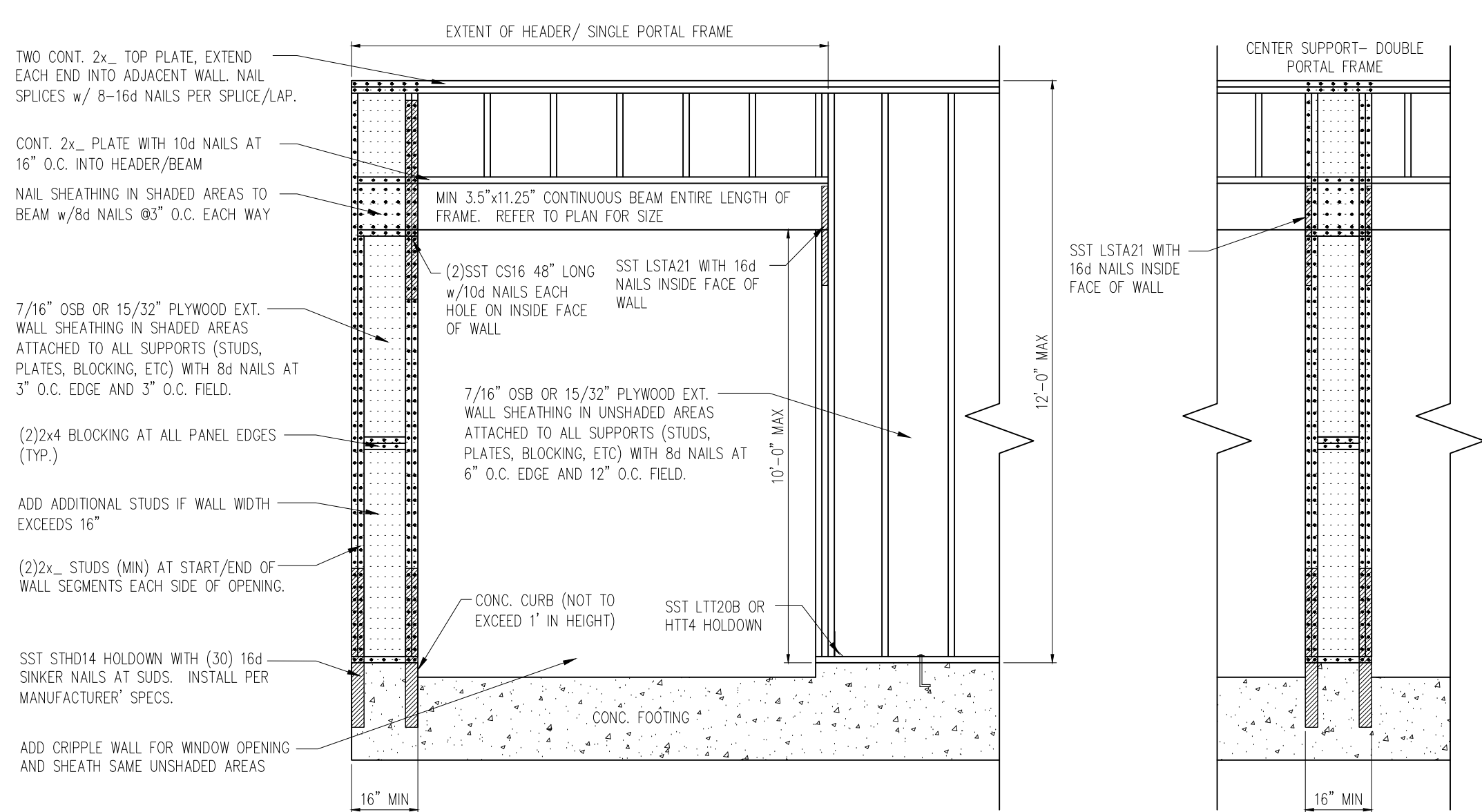
6 TYP. RANGE VENT FRAMING
D1f NTS



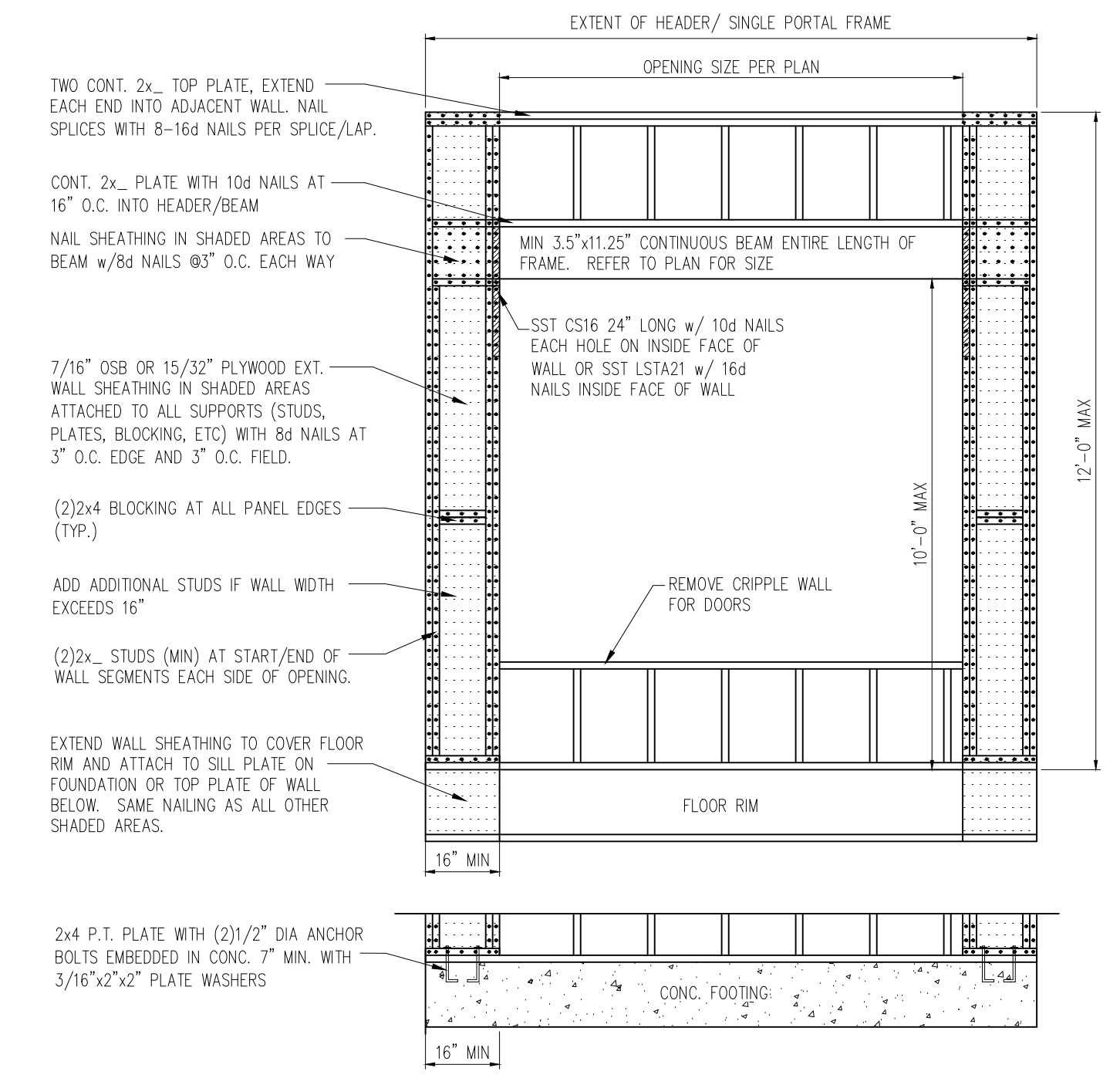
7 METHOD PF: PORTAL FRAME DETAIL
D1f NTS



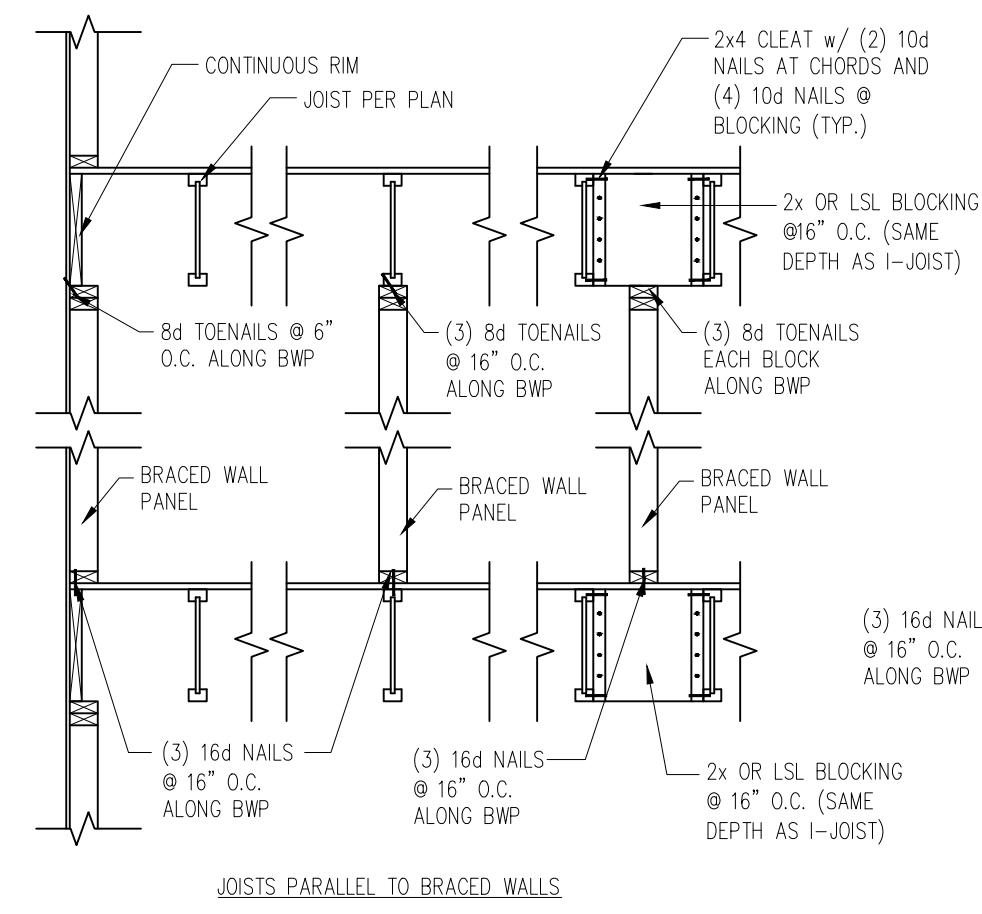
8 TYP. WALL PANEL TO ROOF TRUSS CONNECTION
D1f NTS



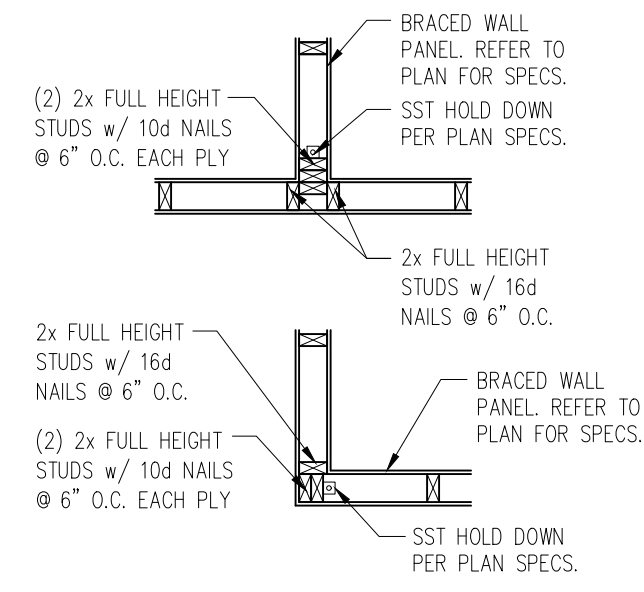
9 METHOD PF: PORTAL FRAME DETAIL w/ HOLD-DOWNS
D1f NTS



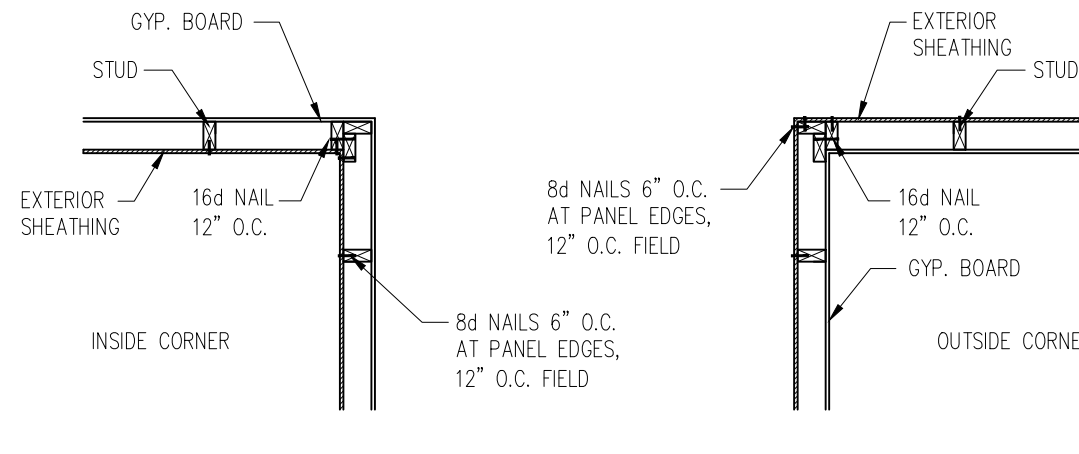
10 METHOD PF: PORTAL FRAME DETAIL OPENINGS UNDER 8'-0\"/>



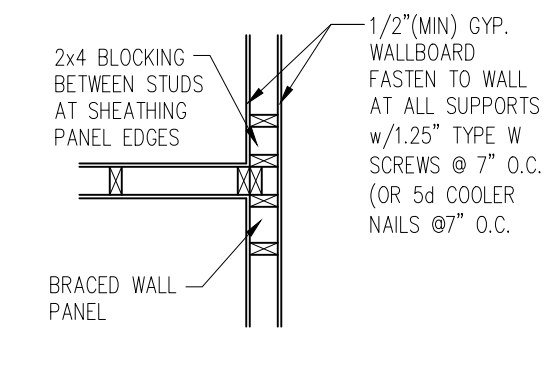
1 TYP. WALL PANEL TO FLOOR/CEILING CONNECTION
D2f NTS



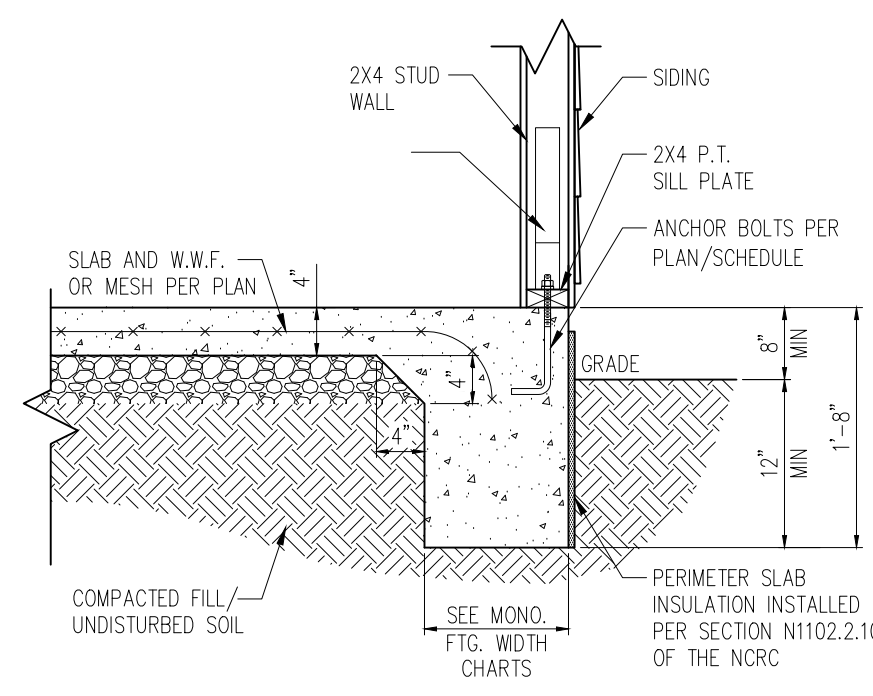
2 TYP. HOLD DOWN DETAIL
D2f NTS



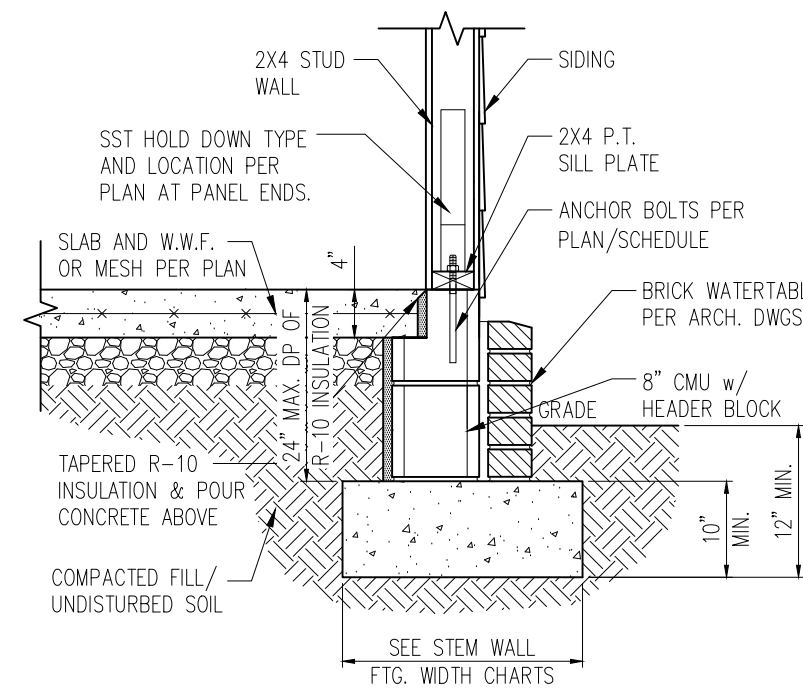
3 TYP. EXTERIOR CORNER FRAMING
D2f NTS



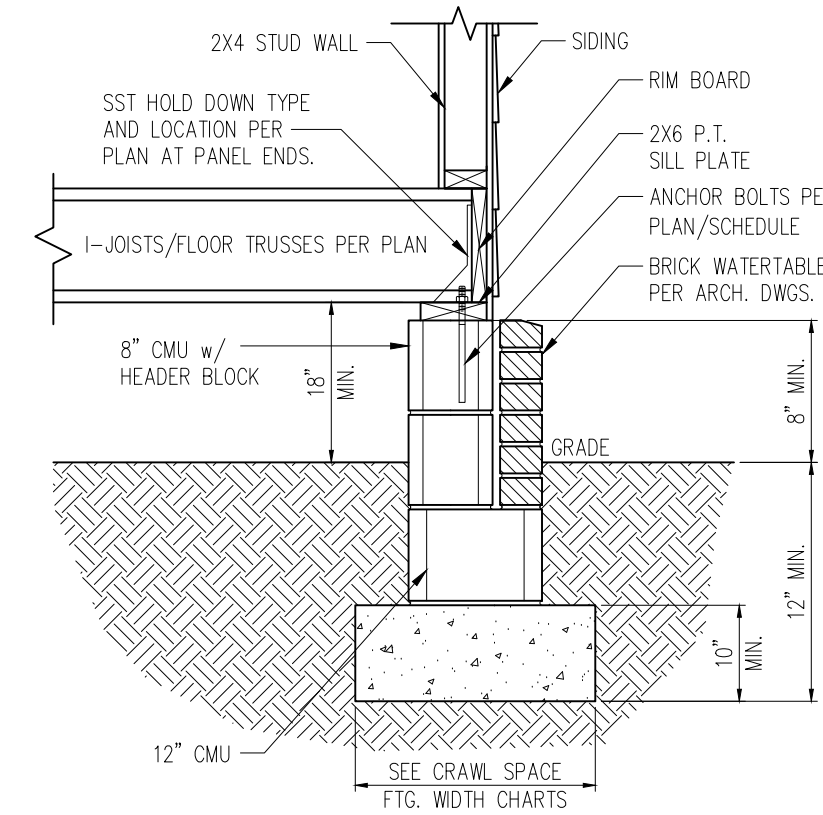
4 INTERIOR 3-STUD WALL INTERSECTION
D2f NTS



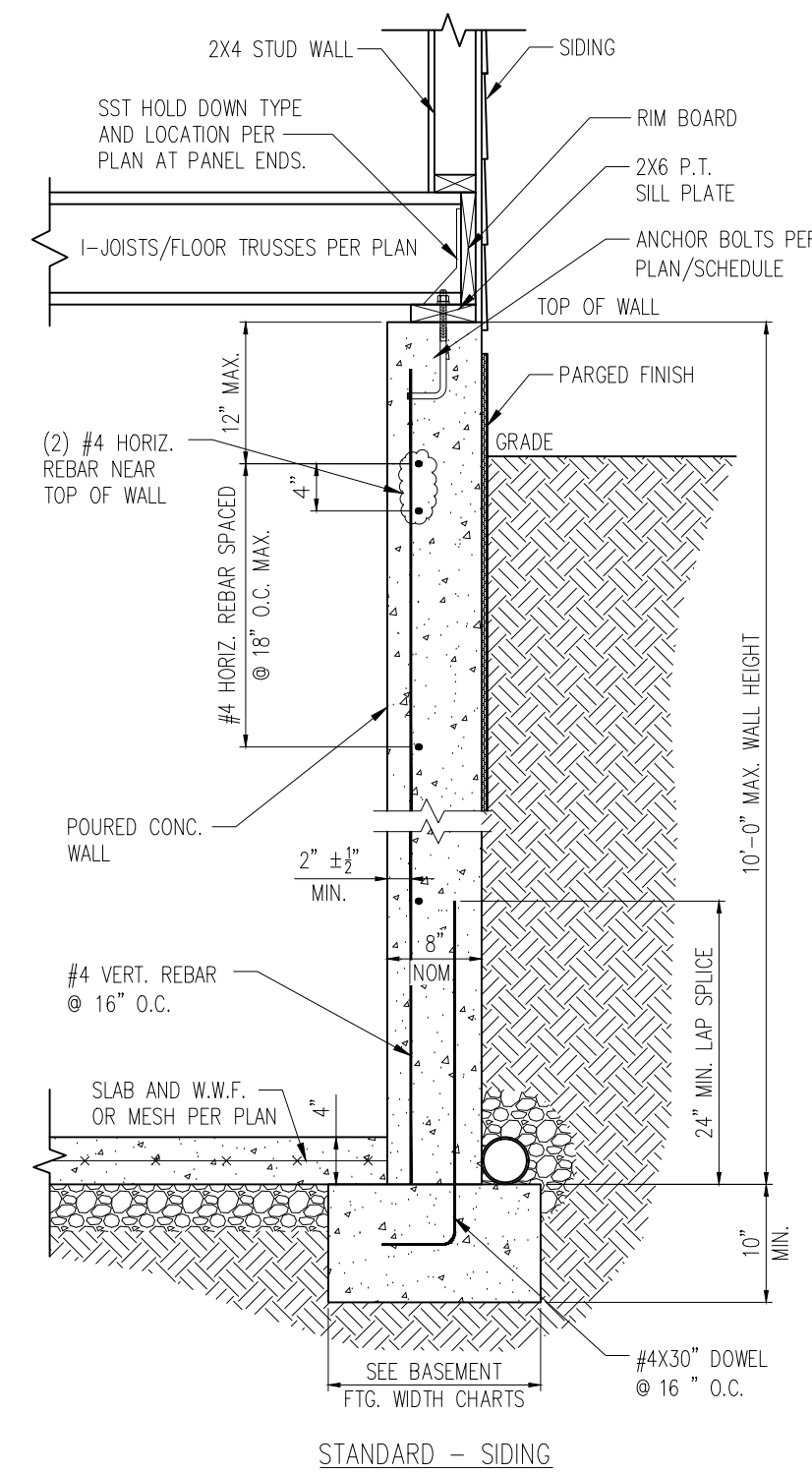
5 SLAB DETAIL w/ HOLD-DOWN
D2f NTS



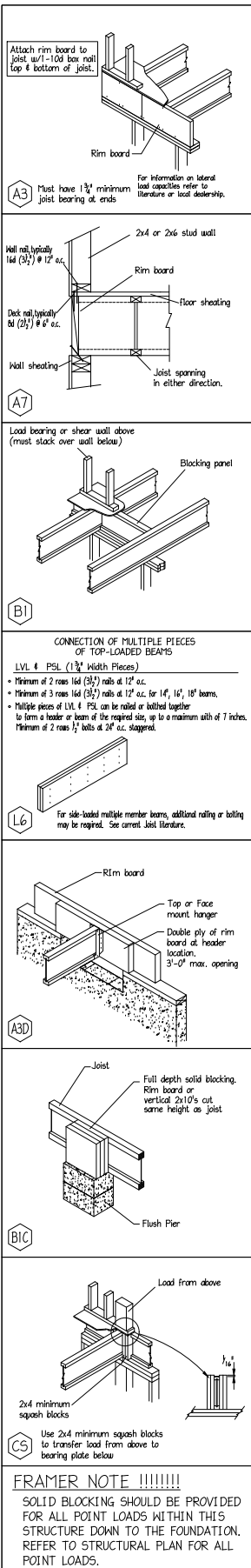
6 STEM WALL DETAIL w/ HOLD-DOWN
D2f NTS



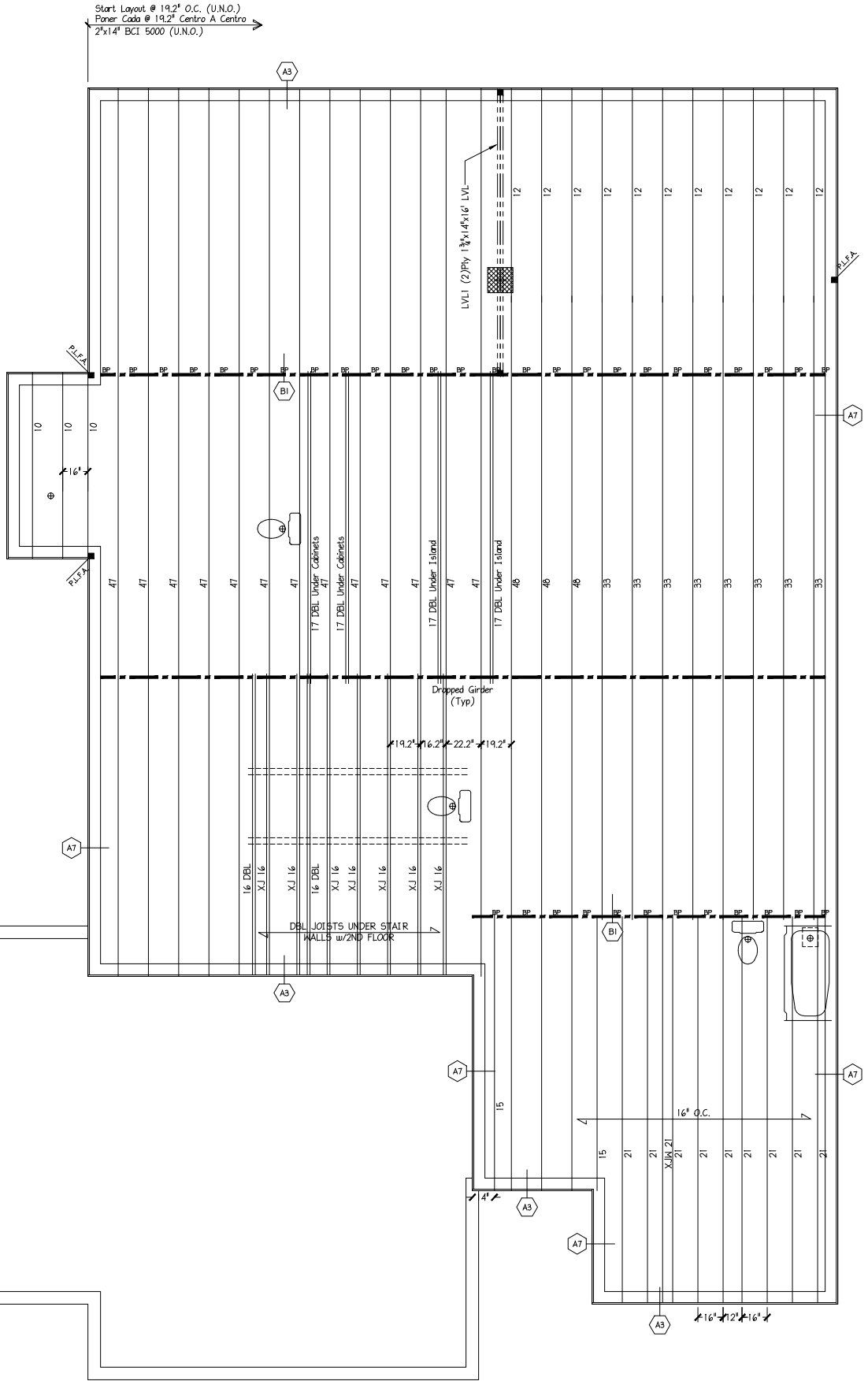
7 TYP. FOUNDATION WALL DETAIL
D2f NTS



8 TYP. BASEMENT FOUNDATION WALL DETAIL
D2f NTS



FRAMER NOTE !!!!!!!
 SOLID BLOCKING SHOULD BE PROVIDED FOR ALL POINT LOADS WITHIN THIS STRUCTURE DOWN TO THE FOUNDATION. REFER TO STRUCTURAL PLAN FOR ALL POINT LOADS.



ENGINEERED WOOD MATERIAL LIST

CARUSO HOMES
 TILLERY - LOT 111 NC 1
 1ST FLOOR I-JOIST PLACEMENT PLAN

MARK	QTY	CUT LENGTH	DESCRIPTION
10	3	10'-0"	2" x 14" BCI 5000
12	11	12'-0"	2" x 14" BCI 5000
15	2	15'-0"	2" x 14" BCI 5000
16	11	16'-0"	2" x 14" BCI 5000
17	8	17'-0"	2" x 14" BCI 5000
21	10	21'-0"	2" x 14" BCI 5000
33	8	33'-0"	2" x 14" BCI 5000
47	13	47'-0"	2" x 14" BCI 5000
48	3	48'-0"	2" x 14" BCI 5000 (Total 1739')

BEAMS AND HEADERS

LVL1	2	16'-0"	1 3/4" x 14" LVL 2.0E (Flush)
------	---	--------	-------------------------------

ACCESSORIES & OTHER MATERIALS (Simpson Hangers)

ITEM	QTY	UNIT	DESCRIPTION
14" Rim	217	LF	1 1/2" x 14" Rim 19 pcs@12' or 14 pcs@16'
BP	37	1'-5 1/8"	14" Blocking Panel (Total 74')
BCLAYOUT	1	PCS	BCI Placement Layout
BCGUIDE	1	PCS	BCI Installation Guide

THIS SHOP DRAWING IS BASED ON THE FOLLOWING

PROJECT LOCATION	PROJECT NUMBER	ARCHITECT DNGS BY	ARCH DNGS DATE
TILLERY - LOT 111 NC 1			

DESIGN DATA

LIVE	40 PSF
DEAD	10 PSF
TOTAL LOAD	= 50 PSF
STRESS DURATION	= 100%
DEFLECTION CRITERIA	= (L/480)

REVISIONS

REV	BY	DATE / DESC.
5D	SJH	4/13/23

DESIGN DATA
 LIVE 40 PSF
 DEAD 10 PSF
 TOTAL LOAD = 50 PSF
 STRESS DURATION = 100%
 DEFLECTION CRITERIA = (L/480)

I-Joists

12BCI4500	=	12TJ1110
12BCI5000	=	12TJ1210
14BCI4500	=	14TJ1110
14BCI5000	=	14TJ1210
14BCI6000	=	14TJ1230
16BCI5000	=	16TJ1210
16BCI60	=	16TJ1360

POINT LOAD FROM ABOVE (P.L.F.A.)
 USE SOLID BLOCKING TO TRANSFER LOAD FROM ABOVE TO FOUNDATION

1ST FLOOR I-JOIST PLACEMENT PLAN
 CARUSO HOMES - TILLERY - LOT 111 NC 1

SCALE: 1/4" = 1'-0" 0 5' 10'

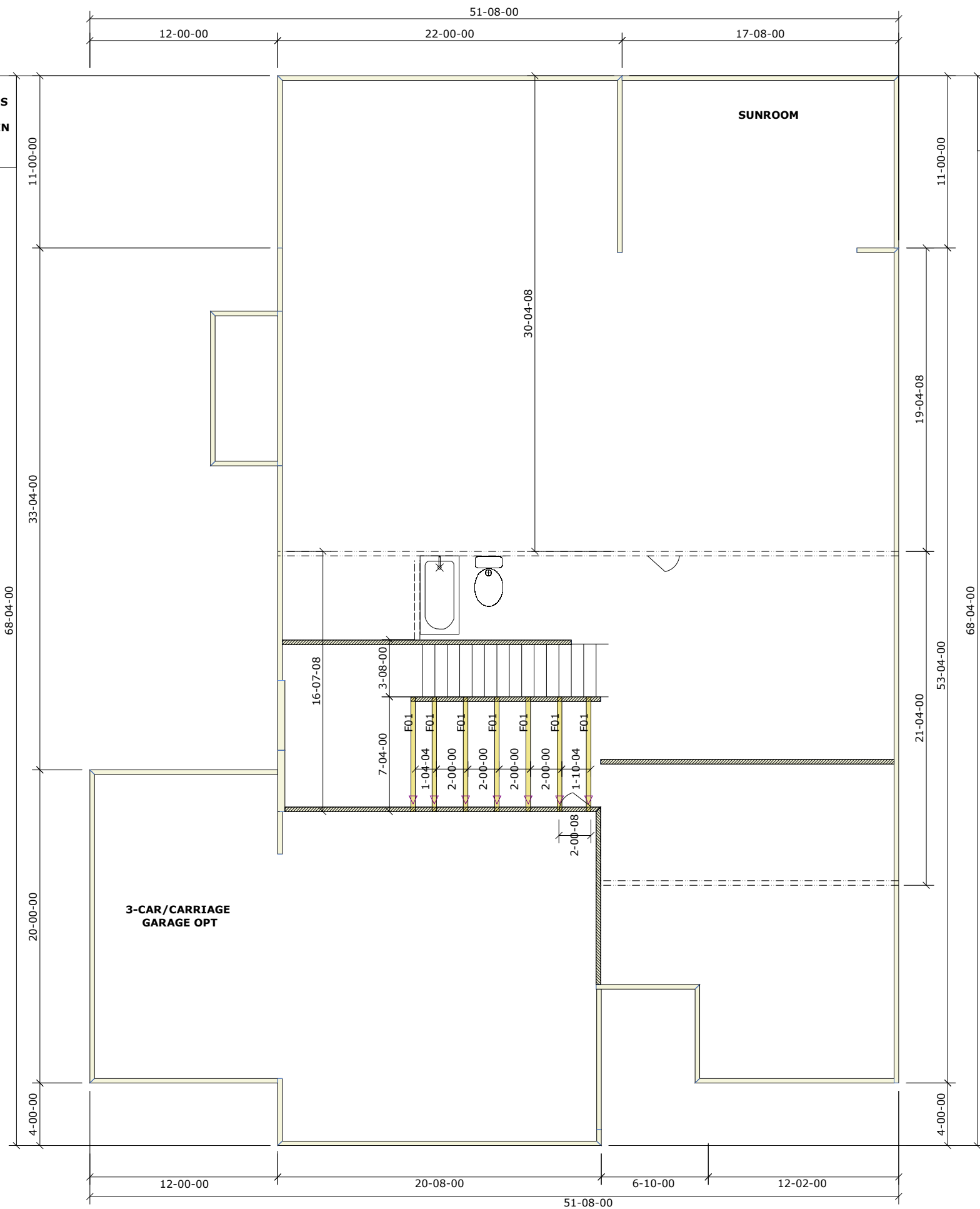
BUILDER: CARUSO HOMES
 MODEL: TILLERY - LOT 111 NC 1
 TITLE: 1ST FLOOR I-JOIST PLACEMENT PLAN
 DATE: MONDAY, 17 APRIL 2023 - 1:37 PM
 FILE: I:\...TILLERY\ACADDWG\CARUSO HOMES\TILLERY - LOT 111 NC 1.DWG

DRAWN BY: T.J.F. DATE: 4/17/23
 SHEET: 1 OF 1 SHEETS

Builders First Source
 23 Red Cedar Way
 Apex, NC 27523
 Phone: (919) 363-4956
 Fax: (919) 387-8565
 http://www.bldr.com

ALL EXTERIOR DIMENSIONS ARE TO OUTSIDE OF SHEATHING. WALLS HELD IN 1/2" FOR SHEATHING

NOTE: LEFT END OF TRUSS AS SHOWN ON TRUSS DETAIL DRAWINGS ARE INDICATED ON LAYOUT BY TRIANGLE ICONS



General Notes:
 - Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
 - Dimensions are Feet-Inches- Sixteenths.
 - Trusses are to be 24" o.c. unless noted otherwise (U.N.O.)
 - Trusses are not designed to support brick U.N.O.
 - Do not cut or modify trusses without first contacting Builders FirstSource.
 - Immediately contact Builders FirstSource if trusses are damaged.

Connection Notes:
 - All hangers are to be Simpson or equivalent U.N.O.
 - Use Manufacturer's specifications for all hanger connections U.N.O.
 - Use 10d x 1 1/2" Nails in hanger connections to single ply roof girder trusses.

Floor Notes:
 - Shift truss as required to avoid plumbing traps.
 - Installation Contractor and/or Field Supervisor are to verify all dimensions, trap locations, and options prior to installation

Dimension Notes:
 - Drawing not to scale. Do not scale dimensions



Hanger List		All Tie Downs H2.5T Unless noted	
0	HTU26	ML	MS
0	HTS20		
0	LGT3-SDS2.5		

Special Items List	

Misc Material	

Caruso			
Tillery	Elev:	1(Traditional)	
OYL			
Wake County	NC	Lot:	NC1 111
Bonus Room Floor/Garage Left		Appwright #	
		Permit (3502348)	
		Code: IRC 215	
		Loading:	
		T.C.L.L.	40
		T.C.D.L.	10
Layout: T1.WUFL-R		B.C.L.L.	0
L/O Date: 04/21/2023		B.C.D.L.	5

Revision History		Wind:	
Rev1:	xx/xx/xx	M.P.H.	115
Rev2:	xx/xx/xx	Exposure Category	
Rev3:	xx/xx/xx	B (Wooded areas/other)	
Pick Ticket:	---	Job No.:	---
Sales No.:	---	Acct No.:	---

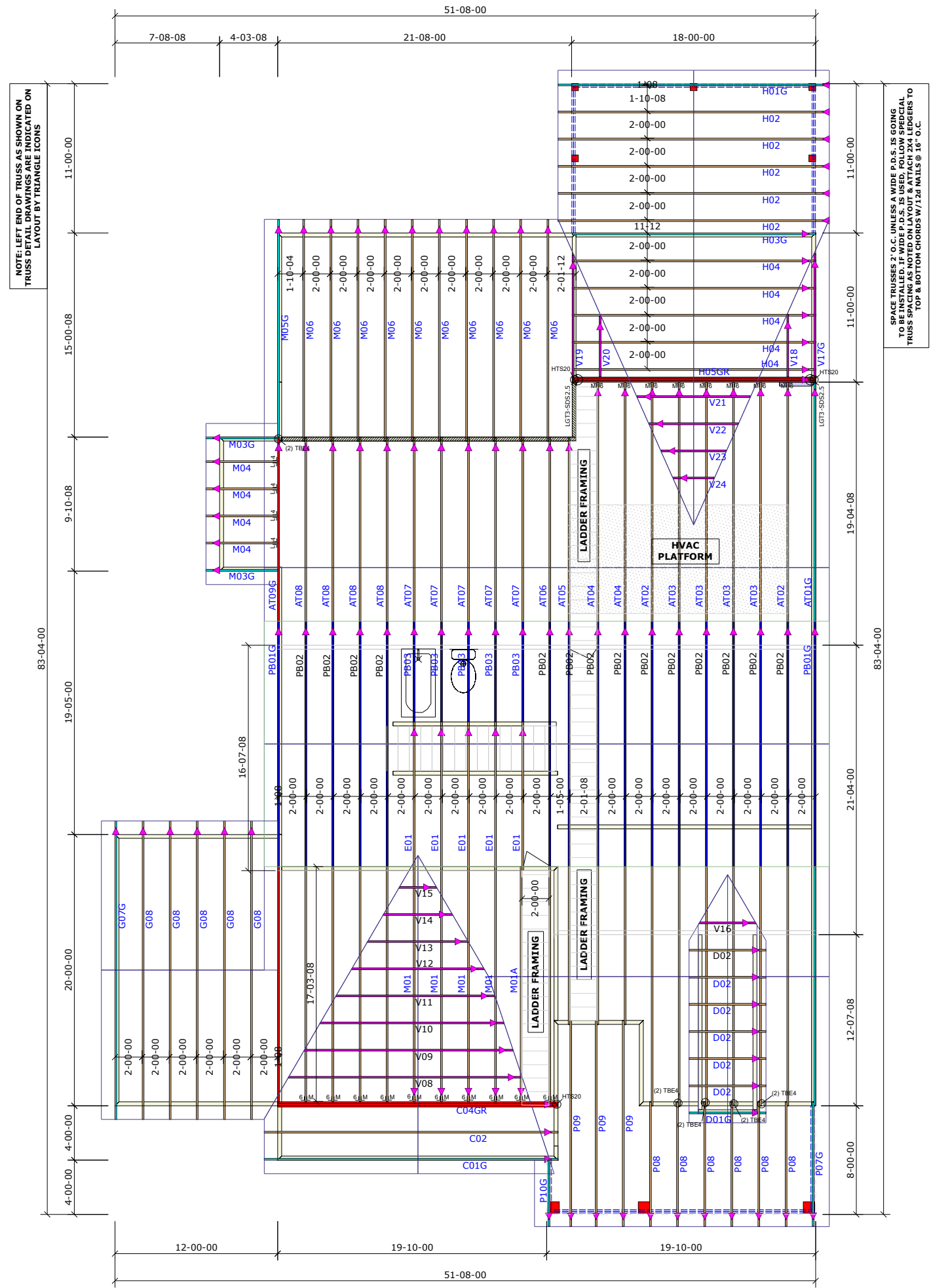
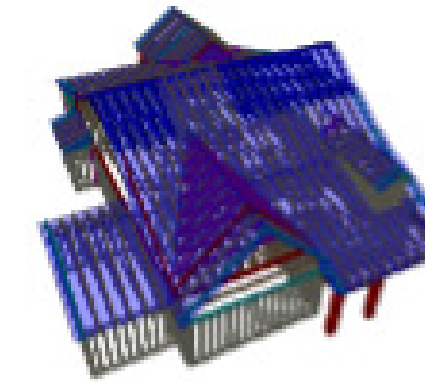
Hatch Legend	
	Attic Room
	Volume Ceiling
	Stick Framing

General Notes:
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 - Drawing not to scale. Do not scale dimensions



Hanger List		All Tie Downs H2.5T Unless noted	
18	HTU26	MJ	L8
10	TBE4	L	L1
2	LGT3-SDS2.5	-	-
3	HTS20	-	-
4	LUS24	L	L8

Special Items List

Misc Material

Caruso			
Tillery	Elev:	1 (Traditional)	
OYL			
Wake County	NC	Lot:	NC1 111
Sun room/Screen Porch/Master Bath/3-Car/Bonus Room/Garage Left		Appwright # Permit (3502387)	
		Code: IRC 215	
		Loading:	
		T.C.L.L.	20
		T.C.D.L.	10
Designed By: CFC		B.C.L.L.	0
Layout: NC1 111-R		B.C.D.L.	10
L/O Date: 04/21/2023			

Revision History		Wind:	
Rev1:	xx/xx/xx	M.P.H.	115
Rev2:	xx/xx/xx	Exposure Category	
Rev3:	xx/xx/xx	B (Wooded areas/other)	
Pick Ticket: ---		Job No.: ---	
Sales No.: ---		Acct No.: ---	

Hatch Legend	
	Attic Room
	Volume Ceiling
	Stick Framing