

Wellers Knoll Lot 66

Grace



**SOUTH
DESIGNS**
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GLASS IN
GARAGE
DOOR

ELEVATION 'C'

1/4 LITE
CRAFTSMAN
DOOR
/LO
SOLID DOOR

INCLUDED OPTIONS:

1st FLOOR
FIXED WINDOWS @ BREAKFAST ROOM
FIXED WINDOWS @ FAMILY ROOM
BOX OAK STAIRS

2nd FLOOR
OWNERS SPA SHOWER
2ND SINK @ BATH 2

SQUARE FOOTAGE		
	ELEVATION 'C'	
	UNHEATED	HEATED
FIRST FLOOR	0	866
SECOND FLOOR	0	1158
FRONT PORCH	38	0
2-CAR GARAGE	432	0
SUBTOTALS	470	2024
TOTAL UNDER ROOF	2494	

REV. #	DESCRIPTION	DATE
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1791 - THE GRACE - LH
 SINGLE FAMILY
 Cover Sheet 'C'

DRAWN BY:
South Designs
 ISSUE DATE:
03/07/2022
 CURRENT REVISION DATE:
05/16/2024
 SCALE:
1/8" = 1'-0"
 SHEET
0.0c

General Floor Plan Notes

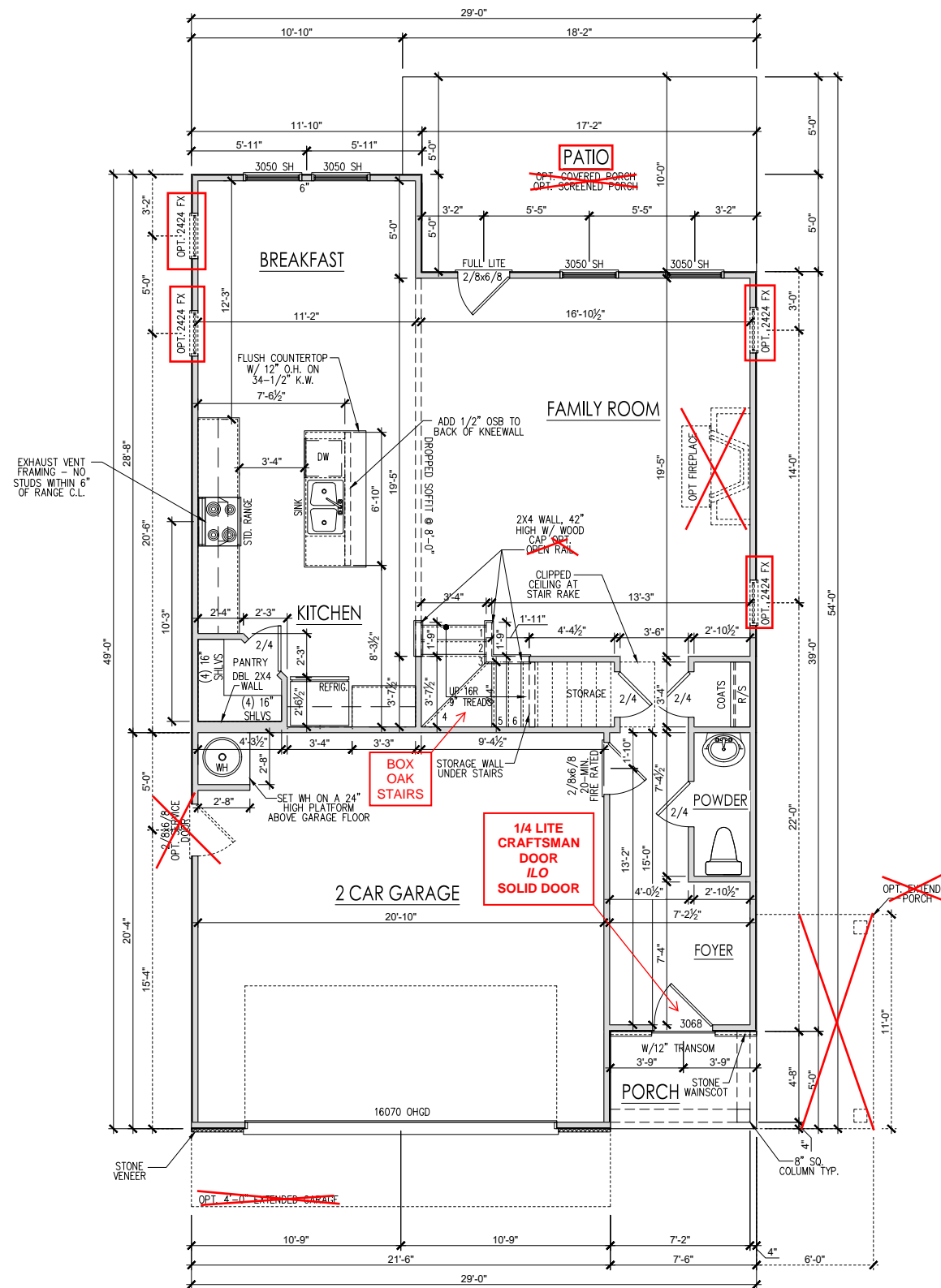
General Floor Plan Notes shall apply unless noted otherwise on plan.

1. Wall Heights: Typically 9'-1 1/2" at first floor and second floor, and 8'-1 1/2" at attics U.N.O. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from Joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
2. Wall Thickness is typically 4" at exterior walls, 3 1/2" at interior. 2x6 frame shall be used at walls that back up to plumbing fixtures. Walls greater than 10' high shall be framed with 2x6 framing or greater and will be noted as a special condition where it occurs on plan.
3. Typical header height shall be 8'-0" AFF at First Floor, and 7'-1" AFF at Second Floor U.N.O.
4. Jacks: Openings up to 3'-4" wide shall have (1) 2x4 jack stud SPF on each side. Openings greater than 3'-4" wide shall have (2) 2x4 jack studs SPF on each side.
5. Soffits, Coffered Ceilings, Trey Ceilings and other significant ceiling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically call out as included, Kitchens do not include soffits over wall cabinetry.
6. Door & Window Frames, where occurring near corners, shall be a minimum of 4 1/2" from corner. Except for walk-in closets with doors near a corner, doors at closets shall be centered on closet.
7. Windows: Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass at hazardous glazing areas. False windows shall be installed with obscure glazing.
8. Closets for clothing or coat storage shall be equipped with 1 rod/shelf. Closets for linen shall have 5 open equal shelves. Closets for pantries shall have 5 equal wood shelves, painted.
9. Stair treads shall be a min of 9" deep, risers shall be a maximum of 8 1/4", unless noted otherwise, per the current North Carolina Residential Code
10. Handrails and Guards at stairs shall be 34" above the finished surface of the ramp surface of the stair. Handrails at landings and overlooks of multilevel spaces shall be 36" above finished floor. Guards (pickets or balusters) shall be spaced with no more than 4" between guards.
11. Attic Access shall be provided at all attic area with a height greater than 30". Minimum clear attic access shall be 20" x 30". Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable.
12. Garage Door to Living Space shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and weather sealed.
13. Garage Walls, as a minimum, shall be separated from living space by installing 1/2" gypsum board on the garage side of the wall. With habitable space above, the inside of all garage walls require 1/2" GWS supporting 5/8" type X GWS on ceiling.

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FIRST FLOOR PLAN 'C'
 SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

REV. #	DESCRIPTION	DATE
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1791 - THE GRACE - LH
 SINGLE FAMILY
 First Floor Plan 'C'

DRAWN BY: South Designs
ISSUE DATE: 03/07/2022
CURRENT REVISION DATE: 05/16/2024
SCALE: 1/8" = 1'-0"
SHEET 2.1c

General Floor Plan Notes

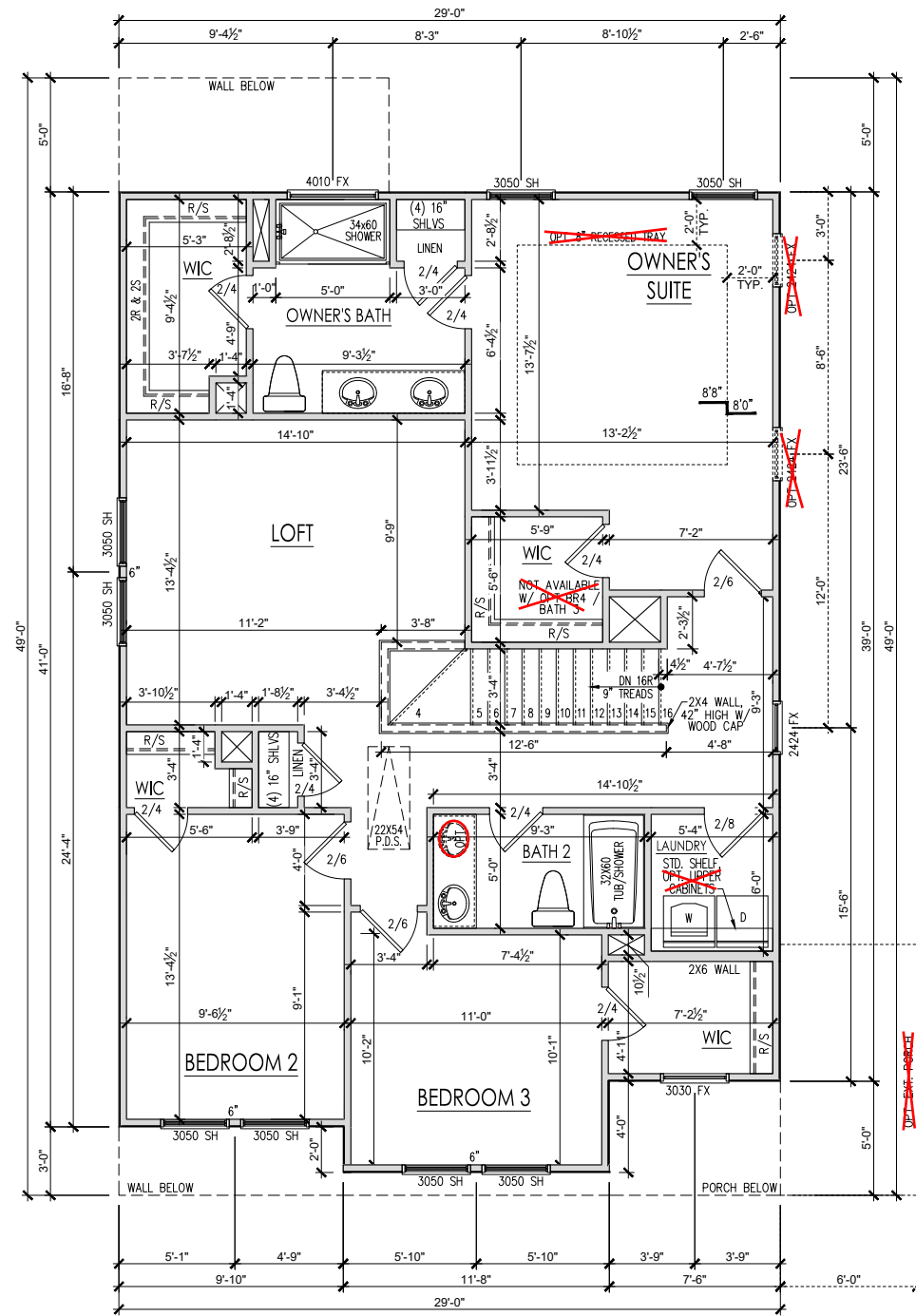
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12. Garage Door to Living Space shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and weather sealed.
13. Garage Walls, as a minimum, shall be separated from living space by installing 1/2" gypsum board on the garage side of the wall. With habitable space above, the inside of all garage walls require 1/2" GWB supporting 5/8" type X GWB on ceiling.

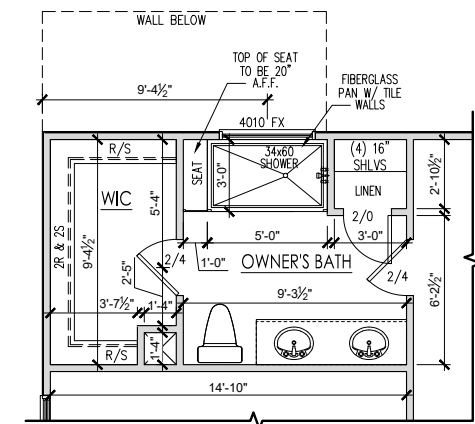
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SECOND FLOOR PLAN 'C'
 SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



OPT. SPA SHOWER
 SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

REV. #	DESCRIPTION	DATE
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1791 - THE GRACE - LH
 SINGLE FAMILY
 Second Floor Plan 'C'

DRAWN BY: South Designs
ISSUE DATE: 03/07/2022
CURRENT REVISION DATE: 05/16/2024
SCALE: 1/8" = 1'-0"
SHEET 2.2c

Wellers Knoll Lot 66



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REV. #	DESCRIPTION	DATE
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1791 - THE GRACE - LH
SINGLE FAMILY
Front & Rear Elevations 'C'

DRAWN BY:
South Designs
ISSUE DATE:
03/07/2022
CURRENT REVISION DATE:
05/16/2024

SCALE:
1/8" = 1'-0"

SHEET
3.1c

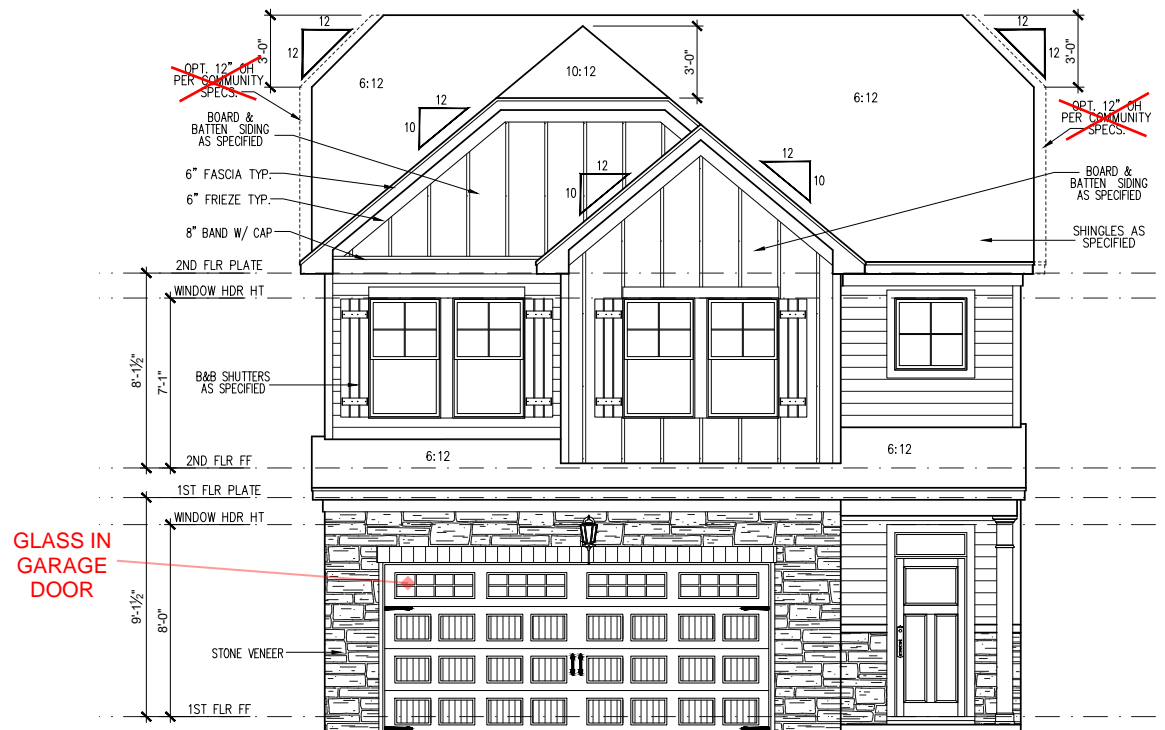
General Elevation Notes

General Elevation Notes shall apply unless noted otherwise on plan.

- Roof shall be finished with architectural composition shingles with slopes as noted on plan.
- Ridge Vent shall be provided and installed on all ridges greater than 6' in length per manufacturer's specifications.
- Soffit Vent shall be continuous soffit vent
- House Wrap, "Tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations.
- Flashing shall be provided above all door and window openings, above finish wall material changes and at wall surfaces where lower roof areas abut vertical wall surfaces.
- Porch Railings shall be provided at all porch walking surfaces greater than 30" above adjacent finished grade. It shall be 36" high with guards spaced no more than 4" apart. Consult community specifications for material.
- Finish Wall Material shall be as noted on elevation drawings.
- Brick Veneer, if included on elevation shall be tied to wall surface with galvanized corrugated metal ties at a rate of 24" oc horizontally and 16" oc vertically so that no more than 2.67sf of brick is supported by (1) tie. Space between face of wall and back face of brick shall be limited to a maximum of 1". Flashing shall be provided behind brick above all wall openings and at base of brick wall. Flashing shall be a minimum of 6-mil poly or other corrosion resistant material and shall be installed so that it laps under the house wrap material a minimum of 2". Weepholes shall be provided at a rate of 48" oc and shall not be less than 3/16" in diameter and shall be located immediately above flashing.
- Brick Veneer Support Lintels shall be provided if brick veneer is included on elevation. Lintels shall be provided as listed in the following schedule and shall have a minimum bearing length of 6". Masonry Lintels shall be provided so that deflection is limited to L/600.

Masonry Opening Lintel Schedule

Opening Size	Angle
up to 4'-0"	3-1/2" x 3-1/2" x 5/16"
4'-1" to 5'-6"	4" x 3-1/2" x 5/16" LLV
5'-7" to 6'-6"	5" x 3-1/2" x 5/16" LLV
6'-7" to 8'-4"	6" x 3-1/2" x 5/16" LLV
8'-5" to 16'-4"	7" x 4" x 3/8" LLV



GLASS IN
GARAGE
DOOR

FRONT ELEVATION 'C'

SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

1/4 LITE
CRAFTSMAN
DOOR
I/O
SOLID DOOR



REAR ELEVATION 'C'

SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

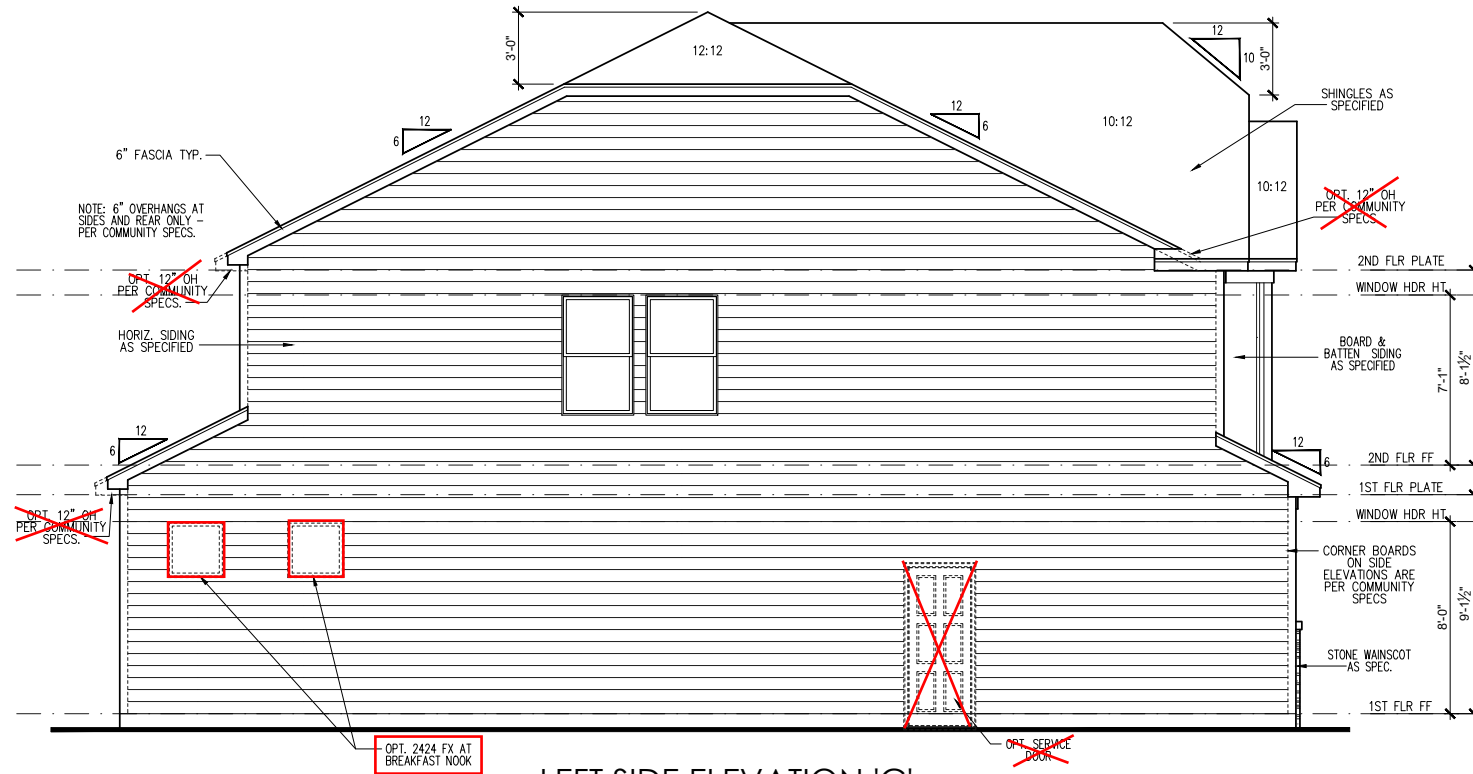
General Elevation Notes

General Elevation Notes shall apply unless noted otherwise on plan.

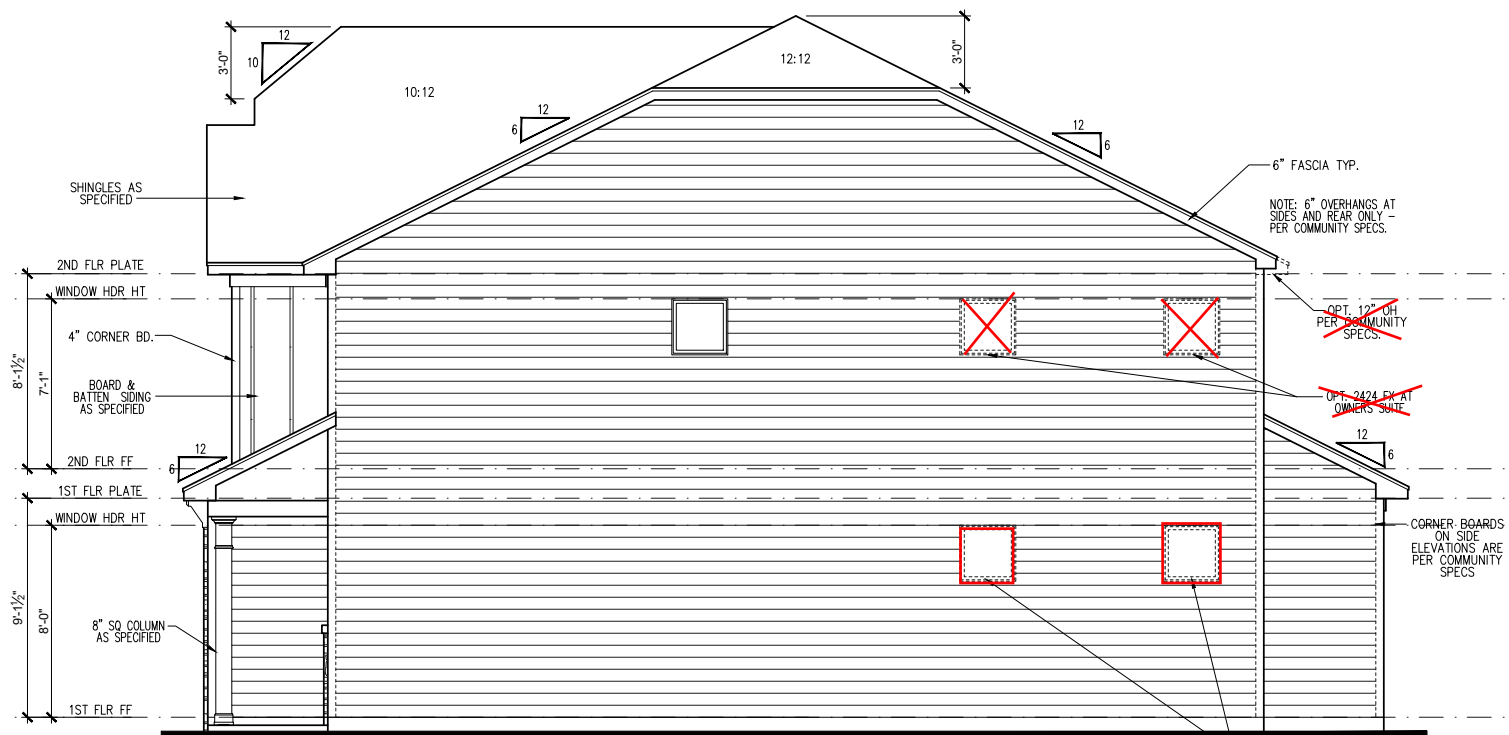
- Roof shall be finished with architectural composition shingles with slopes as noted on plan.
- Ridge Vent shall be provided and installed on all ridges greater than 6' in length per manufacturer's specifications.
- Soffit Vent shall be continuous soffit vent
- House Wrap, "Tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations.
- Flashing shall be provided above all door and window openings, above finish wall material changes and at wall surfaces where lower roof areas abut vertical wall surfaces.
- Porch Railings shall be provided at all porch walking surfaces greater than 30" above adjacent finished grade. It shall be 36" high with guards spaced no more than 4" apart. Consult community specifications for material.
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Masonry Opening Lintel Schedule

Opening Size	Angle
up to 4'-0"	3-1/2" x 3-1/2" x 5/16"
4'-1" to 5'-6"	4" x 3-1/2" x 5/16" LLV
5'-7" to 6'-6"	5" x 3-1/2" x 5/16" LLV
6'-7" to 8'-4"	6" x 3-1/2" x 5/16" LLV
8'-5" to 16'-4"	7" x 4" x 3/8" LLV



LEFT SIDE ELEVATION 'C'
SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17



RIGHT SIDE ELEVATION 'C'
SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

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1791 - THE GRACE - LH
SINGLE FAMILY
Side Elevations 'C'

DRAWN BY:
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ISSUE DATE:
03/07/2022
CURRENT REVISION DATE:
05/16/2024
SCALE:
1/8" = 1'-0"
SHEET
3.2c

ATTIC VENT SCHEDULE									
ELEVATION 'C'									
MAIN HOUSE		SQ FTG		1197	AT / NEAR RIDGE			AT / NEAR EAVE	
VENT TYPE	SQ. FT. REQUIRED RANGE	SQ. FT. SUPPLIED	PERCENT OF TOTAL SUPPLIED	POT. LARGE (SQ. FT. EACH)	POT. SMALL (SQ. FT. EACH)	RIDGE VENT (SQ. FT. PER LF)	EAVE VENT (SQ. IN. EACH)	CONT. VENT (SQ. IN. PER LF)	
RIDGE VENT	1.60 - 2.00	3.25	50.00	0	0	26.00			
SOFFIT VENTS	2.39 - 2.00	3.25	50.00				0	52.00	
TOTAL (MIN)	3.99 - 3.99	6.50	100.00	POT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILABLE					

* SCHEDULE HAS BEEN CALCULATED ASSUMING EAVE VENTILATION AT 50-60% OF TOTAL AND RIDGE AT 40-50% OF TOTAL REQUIRED VENTILATION



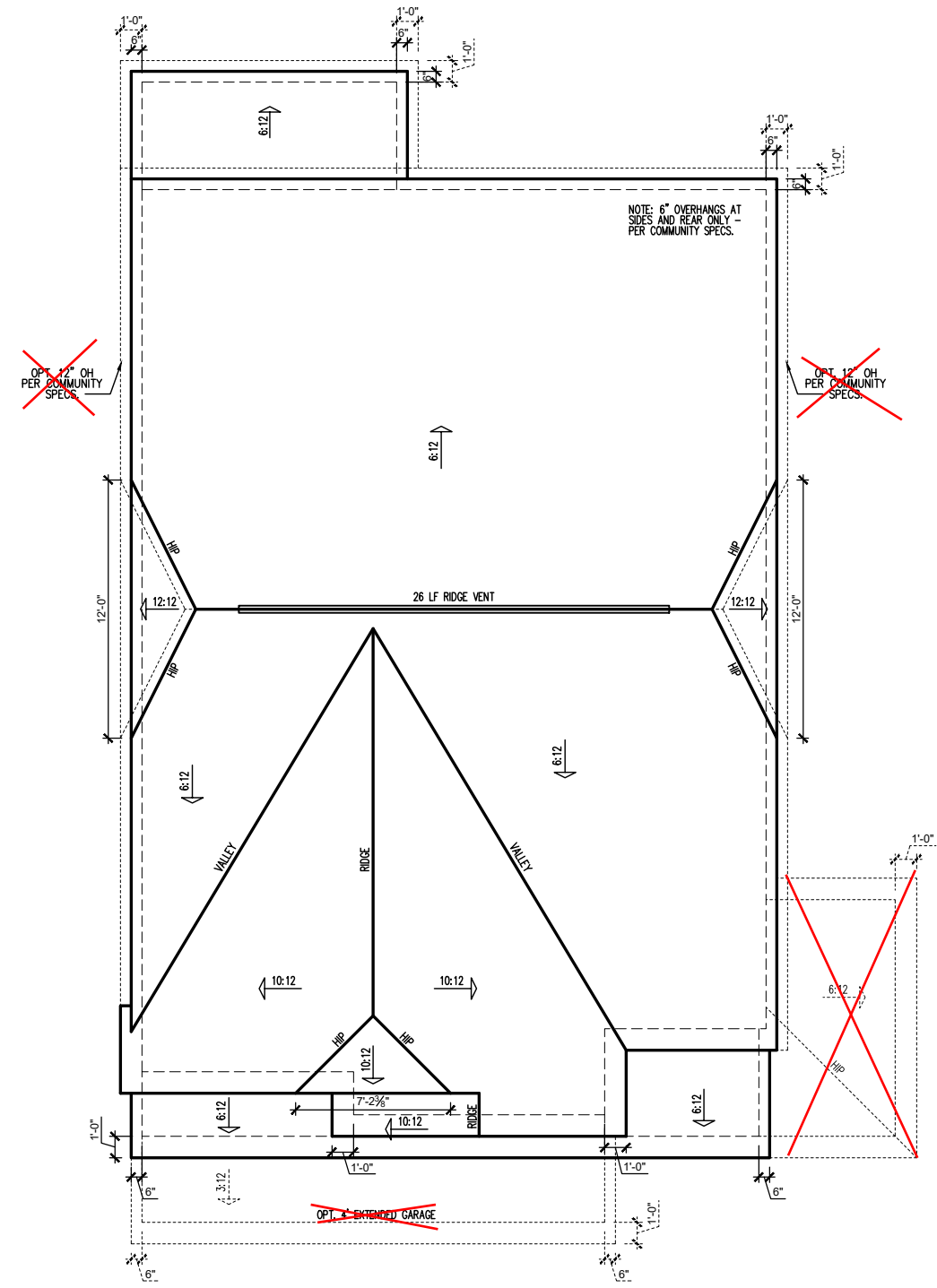
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1791 - THE GRACE - LH
 SINGLE FAMILY
 Roof Plan 'C'

DRAWN BY:
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 ISSUE DATE:
03/07/2022
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05/16/2024
 SCALE:
1/8" = 1'-0"
 SHEET
3.3c



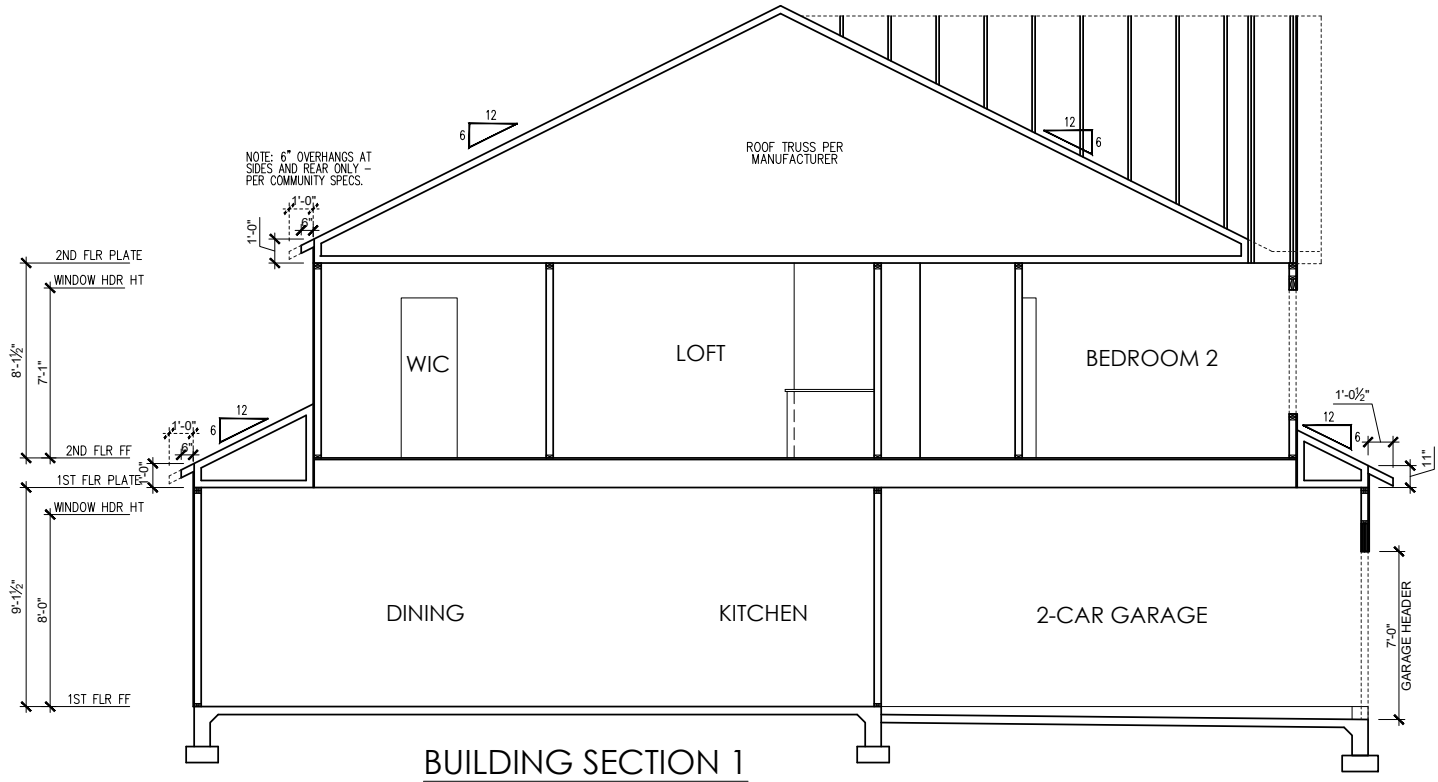
ELEVATION 'C' ROOF PLAN
 SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

Wellers Knoll Lot 66

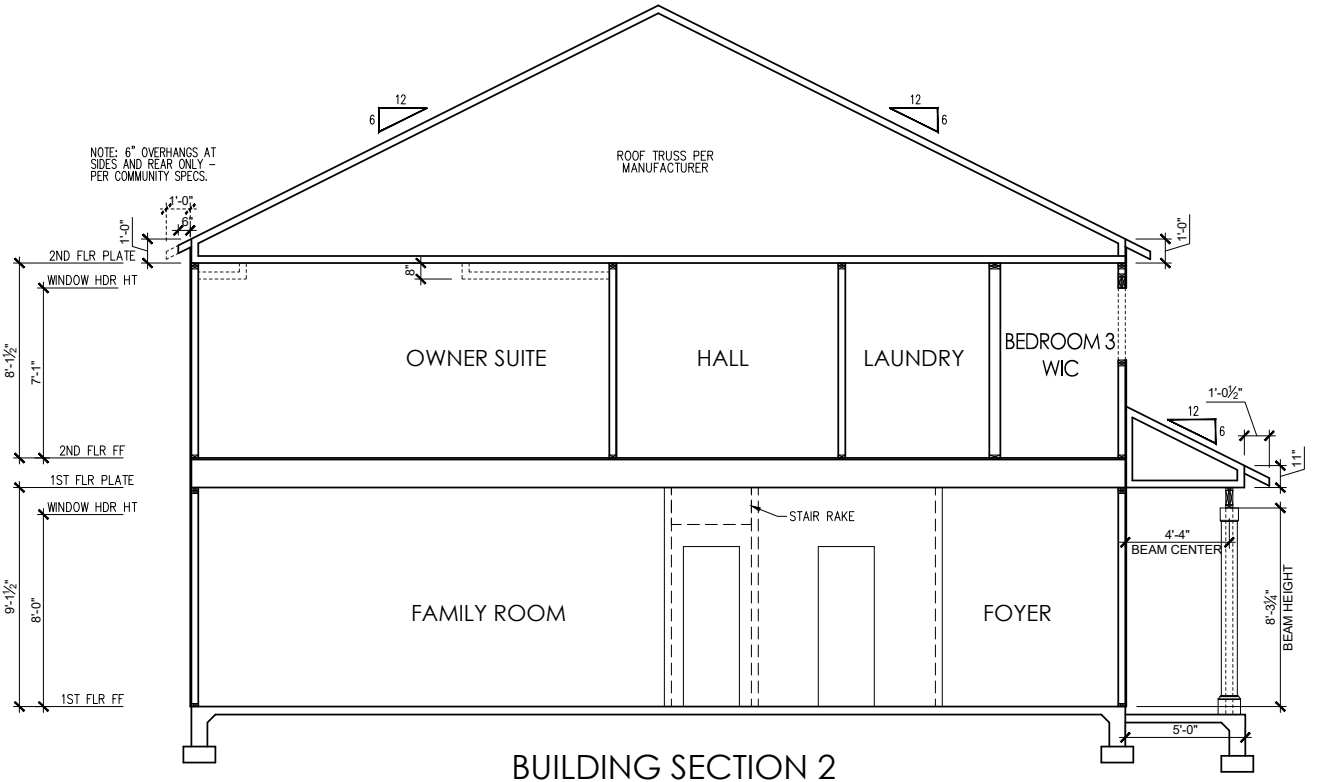
Wellers Knoll Lot 66



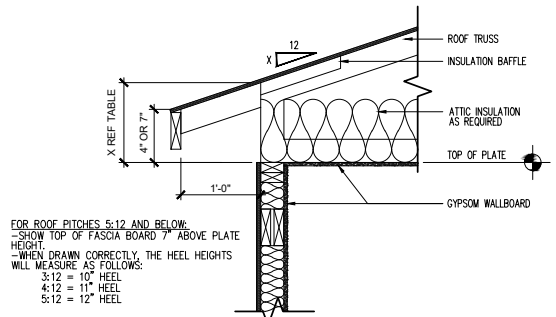
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BUILDING SECTION 1
 SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

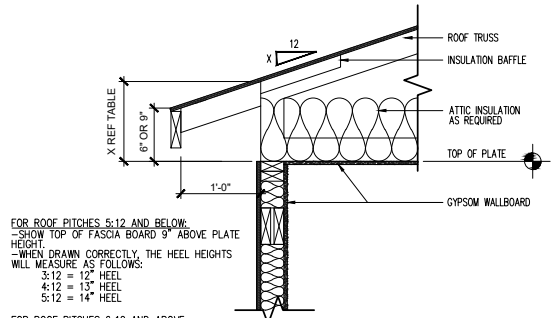


BUILDING SECTION 2
 SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17



FOR ROOF PITCHES 5:12 AND BELOW:
 -SHOW TOP OF FASCIA BOARD 7" ABOVE PLATE HEIGHT.
 -WHEN DRAWN CORRECTLY, THE HEEL HEIGHTS WILL MEASURE AS FOLLOWS:
 3:12 = 10" HEEL
 4:12 = 11" HEEL
 5:12 = 12" HEEL

ENERGY HEEL DETAIL: CZ 2 & 3
 SCALE: 1" = 1'-0" ON 22x34, 1/2" = 1'-0" ON 11x17



FOR ROOF PITCHES 6:12 AND ABOVE:
 -SHOW TOP OF FASCIA BOARD 4" ABOVE PLATE HEIGHT.
 -WHEN DRAWN CORRECTLY, THE HEEL HEIGHTS WILL MEASURE AS FOLLOWS:
 6:12 = 10" HEEL
 7:12 = 11" HEEL
 8:12 = 12" HEEL
 9:12 = 13" HEEL
 10:12 = 14" HEEL

ENERGY HEEL DETAIL: CZ 4 & 5
 SCALE: 1" = 1'-0" ON 22x34, 1/2" = 1'-0" ON 11x17

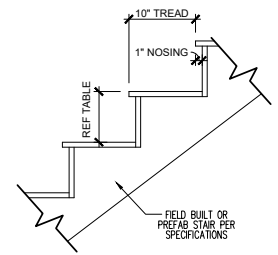
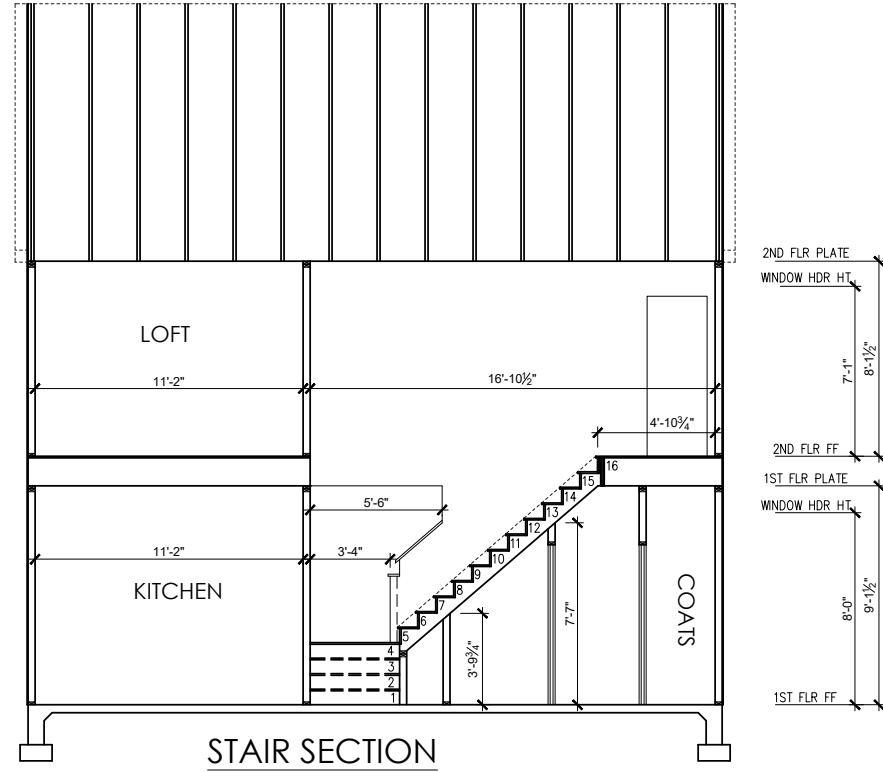


PLATE HEIGHT	10' FLOOR SYSTEM	14' FLOOR SYSTEM	16' FLOOR SYSTEM
8'-1 1/2"	14 RISERS @ 7 11/16"	15 RISERS @ 7 1/2"	15 RISERS @ 7 5/8"
9'-1 1/2"	16 RISERS @ 7 1/2"	16 RISERS @ 7 3/4"	17 RISERS @ 7 7/16"
10'-1 1/2"	17 RISERS @ 7 3/4"	18 RISERS @ 7 9/16"	18 RISERS @ 7 11/16"

TYPICAL STAIR DETAIL
 SCALE: 1" = 1'-0" ON 22x34, 1/2" = 1'-0" ON 11x17



STAIR SECTION
 SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

REV. #	DESCRIPTION	DATE
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1791 - THE GRACE - LH
 SINGLE FAMILY
 Building Sections

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 1/8" = 1'-0"
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4.0c

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REV. #	DESCRIPTION	DATE
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1791 - THE GRACE - LH
 SINGLE FAMILY
 First Floor Electrical 'C'

DRAWN BY:
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 05/16/2024
 SCALE:
 1/8" = 1'-0"

SHEET
5.1c

ELECTRICAL SYMBOL KEY

LIGHT FIXTURES	
	CEILING SURFACE MOUNT LIGHT
	RECESSED CAN LIGHT
	RECESSED CAN LIGHT WATERPROOF
	RECESSED CAN - EYEBALL
	PENDANT LIGHTING
	WALL SCONCE
	WALL MOUNT LIGHT
	FLOOD LIGHT
OUTLETS	
	DUPLEX OUTLET
	GFI OUTLET
	WATERPROOF GFI OUTLET
	SWITCHED 1/2 HOT DUPLEX OUTLET
	220V OUTLET
	TELEPHONE OUTLET
	CATV (TELEVISION) OUTLET
	UNDER-COUNTER OR CONCEALED OUTLETS
	CEILING MOUNTED DUP. OUTLET
	FLOOR MOUNTED DUP. OUTLET
SWITCHES	
	SINGLE POLE SWITCH
	THREE-WAY SWITCH
	FOUR-WAY SWITCH
	ELECTRICAL DISCONNECT
MISC FIXTURES	
	EXHAUST FAN
	JUNCTION BOX
	JUNCTION BOX 220V
	CARBON MONOXIDE DETECTOR OR SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR AND SMOKE DETECTOR
	ELECTRIC METER
	ELECTRICAL PANEL
	DOOR BELL CHIME
	DOOR BELL PUSH BUTTON
	CEILING FAN PREWIRE
	FLUORESCENT LIGHT

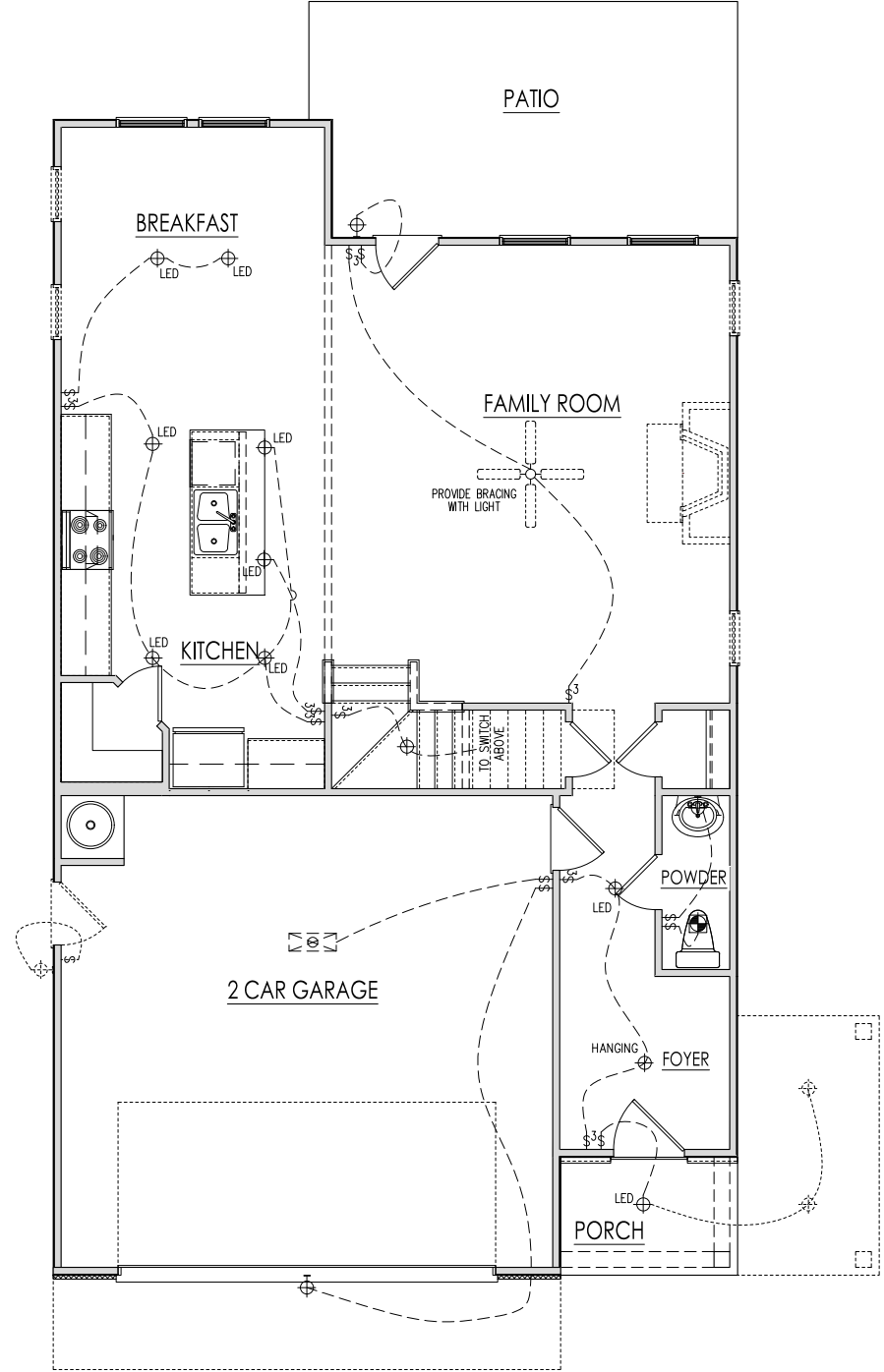
General Power and Lighting:

General Power and Lighting Notes shall apply unless noted otherwise on plans.

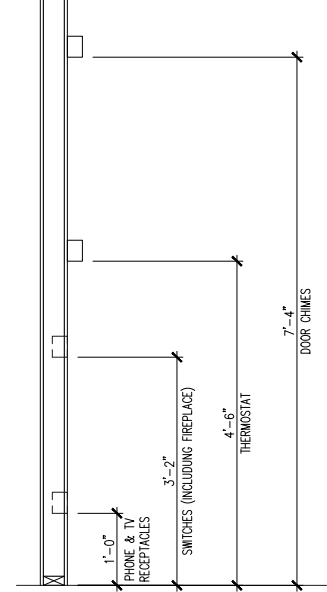
All work shall be installed per the current NC Residential Building Code, and the National Electric Code. Alarm devices shall meet NFPA 72.

- Smoke Alarms - Shall be provided as a minimum of (1) per floor, including basements (if applicable), (1) in each sleep room, and (1) outside each sleeping area, within the immediate vicinity of sleeping rooms. When more than one alarm is required, the alarm devices shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms. Smoke alarms shall be hard wired to permanent power and shall have batter back-ups.
- Switches - For lighting, fans, etc. shall be installed at heights illustrated on this page and shall be located a minimum of 4 1/2" from door openings to allow for the proper installation of door casings. Switches, thermostats, security pads, and other similar devices shall be grouped together and installed thoughtfully for convenience of use and to avoid placement within centers of wall areas.

Note:
 This plan is a diagram showing approximate locations of convenience outlets based on requirements found in the NC Residential Code and N.E.C. Actual positions may vary from what is shown on plan.



FIRST FLOOR ELECTRICAL PLAN 'C'
 SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



ELECTRICAL BOX HEIGHTS

Wellers Knoll Lot 66



**SOUTH
DESIGNS**

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**DAVIDSON
HOMES**

REV. #	DESCRIPTION	DATE
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1791 - THE GRACE - LH
SINGLE FAMILY
Second Floor Electrical 'C'

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05/16/2024
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1/8" = 1'-0"
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ELECTRICAL SYMBOL KEY

LIGHT FIXTURES	
	CEILING SURFACE MOUNT LIGHT
	RECESSED CAN LIGHT
	RECESSED CAN LIGHT WATERPROOF
	RECESSED CAN - EYEBALL
	PENDANT LIGHTING
	WALL SCONCE
	WALL MOUNT LIGHT
	FLOOD LIGHT
OUTLETS	
	DUPLEX OUTLET
	GFI OUTLET
	WATERPROOF GFI OUTLET
	SWITCHED 1/2 HOT DUPLEX OUTLET
	220V OUTLET
	TELEPHONE OUTLET
	CATV (TELEVISION) OUTLET
	UNDER-COUNTER OR CONCEALED OUTLETS
	CEILING MOUNTED DUP. OUTLET
	FLOOR MOUNTED DUP. OUTLET
SWITCHES	
	SINGLE POLE SWITCH
	THREE-WAY SWITCH
	FOUR-WAY SWITCH
	ELECTRICAL DISCONNECT
MISC FIXTURES	
	EXHAUST FAN
	JUNCTION BOX
	JUNCTION BOX 220V
	CARBON MONOXIDE DETECTOR OR SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR AND SMOKE DETECTOR
	ELECTRIC METER
	ELECTRICAL PANEL
	DOOR BELL CHIME
	DOOR BELL PUSH BUTTON
	CEILING FAN PREWIRE
	FLUORESCENT LIGHT

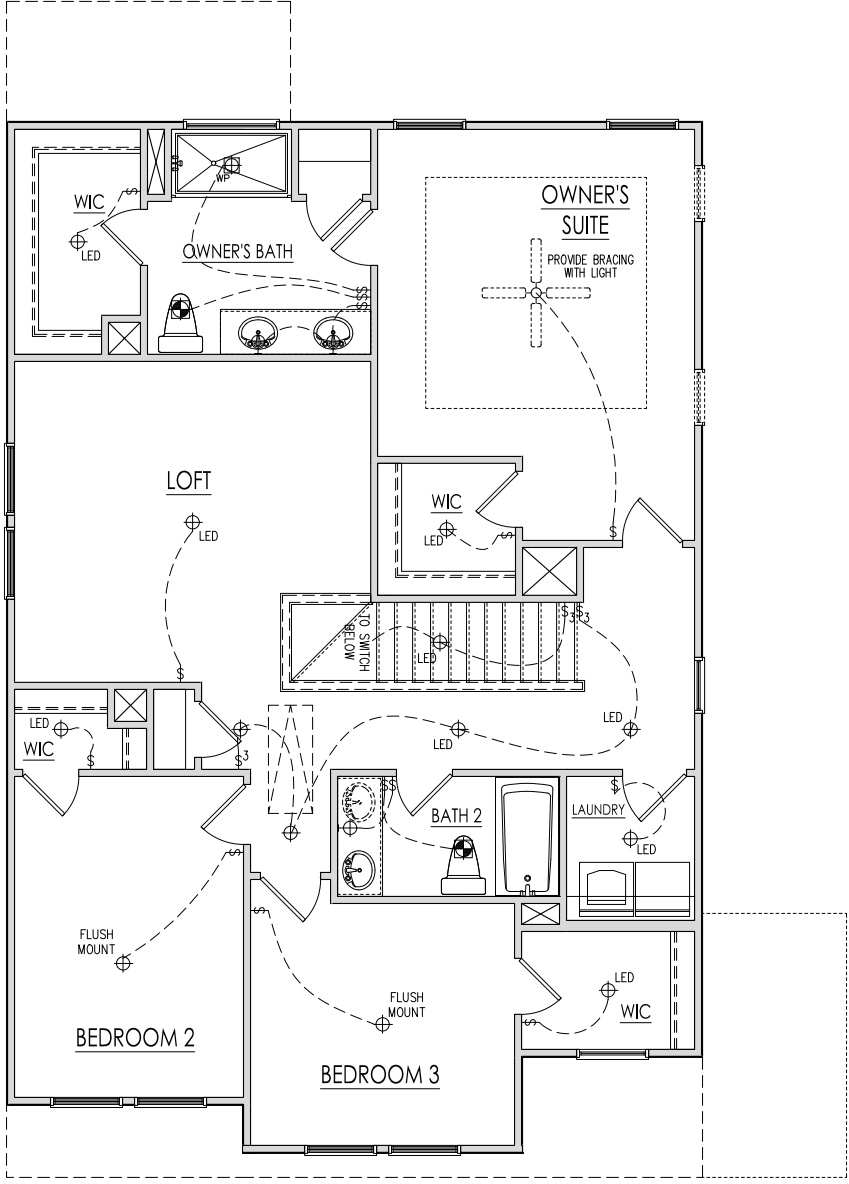
General Power and Lighting:

General Power and Lighting Notes shall apply unless noted otherwise on plans.

All work shall be installed per the current NC Residential Building Code, and the National Electric Code. Alarm devices shall meet NFPA 72.

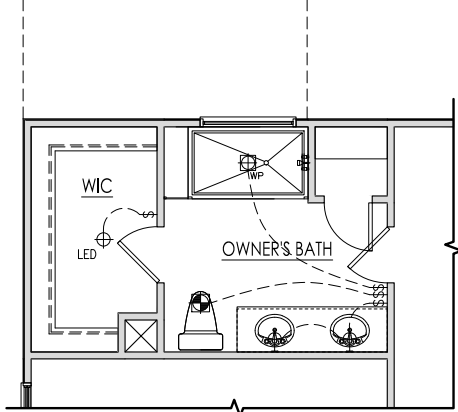
- Smoke Alarms - Shall be provided as a minimum of (1) per floor, including basements (if applicable), (1) in each sleep room, and (1) outside each sleeping area, within the immediate vicinity of sleeping rooms. When more than one alarm is required, the alarm devices shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms. Smoke alarms shall be hard wired to permanent power and shall have battery back-ups.
- Switches - For lighting, fans, etc. shall be installed at heights illustrated on this page and shall be located a minimum of 4 1/2" from door openings to allow for the proper installation of door casings. Switches, thermostats, security pads, and other similar devices shall be grouped together and installed thoughtfully for convenience of use and to avoid placement within centers of wall areas.

Note:
This plan is a diagram showing approximate locations of convenience outlets based on requirements found in the NC Residential Code and N.E.C. Actual positions may vary from what is shown on plan.



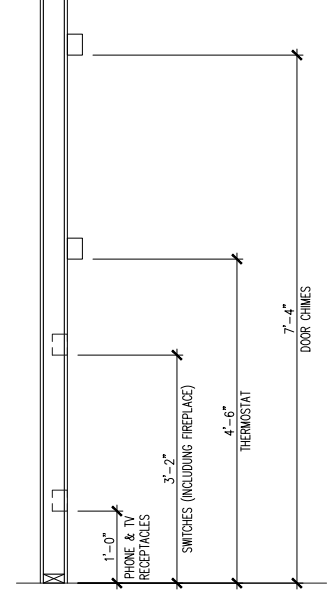
SECOND FLOOR ELECTRICAL PLAN 'C'

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



OPT. SPA SHOWER

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



ELECTRICAL BOX HEIGHTS



KSE
ENGINEERING

1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951
www.kse-eng.com (215) 804-4449

1791 THE GRACE
LH
RALEIGH, NORTH CAROLINA

THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. THIS COORDINATION IS NOT THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (SER). SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS. IT IS THE INTENT OF THE ENGINEER LISTED ON THESE DOCUMENTS THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR. THE BUILDER AND ALL SUBCONTRACTORS ARE REQUIRED TO REVIEW ALL OF THE INFORMATION CONTAINED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ANY PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS.

DESIGN SPECIFICATIONS:

DESIGN BUILDING CODE (REFERRED TO HEREIN AS 'THE BUILDING CODE'):
 • 2018 NORTH CAROLINA RESIDENTIAL CODE, WALL BRACING PER INTERNATIONAL RESIDENTIAL CODE 2015 EDITION.

DESIGN LIVE LOADS:
 • ROOF = 20 PSF (LOAD DURATION FACTOR=1.25)
 • UNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS)
 • HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 30 PSF
 • FLOOR = 40 PSF
 • FLOOR (SLEEPING AREAS) = 30 PSF
 • DECK/BALCONY = 40 PSF
 • STAIRS = 40 PSF

DESIGN DEAD LOADS:
 • ROOF TRUSS = 17 PSF (TC=7, BC=10)
 • FLOOR TRUSS = 15 PSF (TC=10, BC=5)
 • FLOOR JOIST = 10 PSF
 • STANDARD BRICK = 40 PSF
 • QUEEN ANNE BRICK = 25 PSF

NOTE: STRUCTURAL FRAMING HAS NOT BEEN DESIGNED FOR TILE, GRANITE, MARBLE OR OTHER MATERIALS HEAVIER THAN THE ABOVE LOADING UNLESS SPECIFICALLY NOTED ON PLANS.

DESIGN WIND LOADS:
 • ULTIMATE WIND SPEED = 120 MPH
 • EXPOSURE CATEGORY = B

ASSUMED SOIL BEARING CAPACITY = 2000 PSF

ASSUMED LATERAL SOIL PRESSURE = 45 PCF

FROST DEPTH = 12" MINIMUM

SEISMIC DESIGN CATEGORY = B

ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:

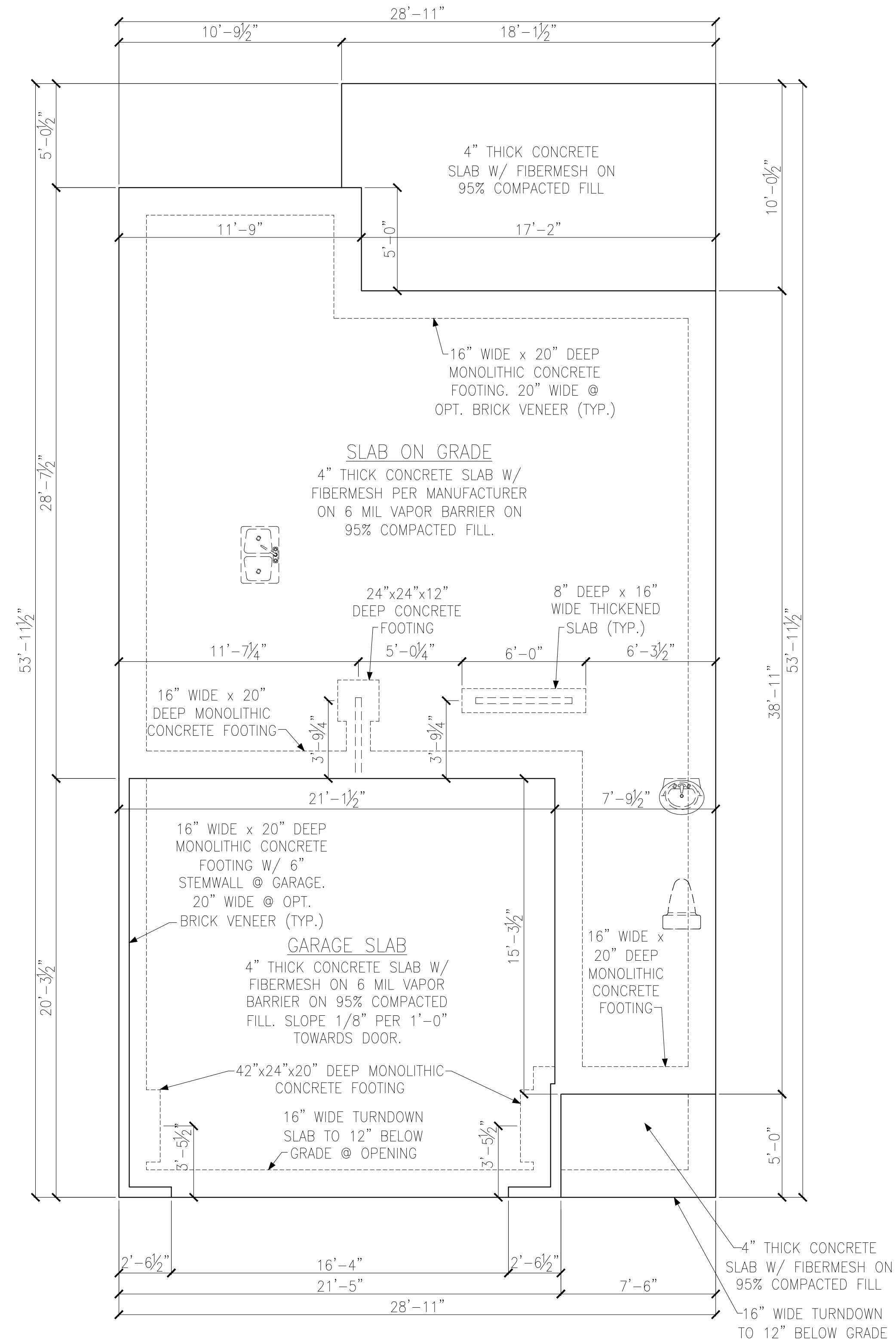
- TJI 210 SERIES (SERIES AND SPACING PER PLANS)
- LSL: E=1,550,000 PSI, F_b=2,325 PSI, F_v=310 PSI, F_c=900 PSI
- LVL: E=2,000,000 PSI, F_b=2,600 PSI, F_v=285 PSI, F_c=750 PSI
- PSL: E=2,100,000 PSI, F_b=2,900 PSI, F_v=290 PSI, F_c=625 PSI

THIS PLAN HAS BEEN DESIGNED PER THE 2018 EDITION OF THE NC RESIDENTIAL CODE. WHERE FRAMING, FOUNDATION, OR OTHER STRUCTURAL ITEMS DO NOT COMPLY WITH THE PRESCRIPTIVE METHODS OF THE CODE, THOSE ITEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE PER NCRS R301.1.3.



Cover Sheet
 1791 The Grace Model – LH
 Up to 120 M.P.H.
 Raleigh, North Carolina

Project #: 214-22001
 Designed By: AAM
 Checked By: KRK
 Issue Date: 4/20/22
 Re-Issue: 3/9/23
 Scale: 1/8"=1'-0" @ 11x17
 1/4"=1'-0" @ 22x34



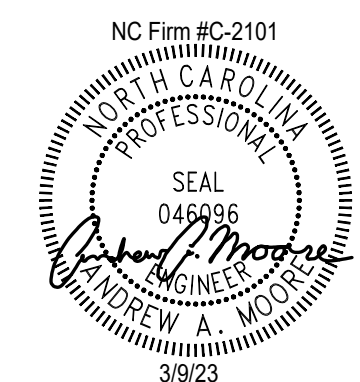
MONOLITHIC SLAB FOUNDATION PLAN
ELEVATION 'C'

Monolithic Slab Foundation Plans
Elevation 'C' & Option
1791 The Grace Model - LH
Up to 120 M.P.H.
Raleigh, North Carolina

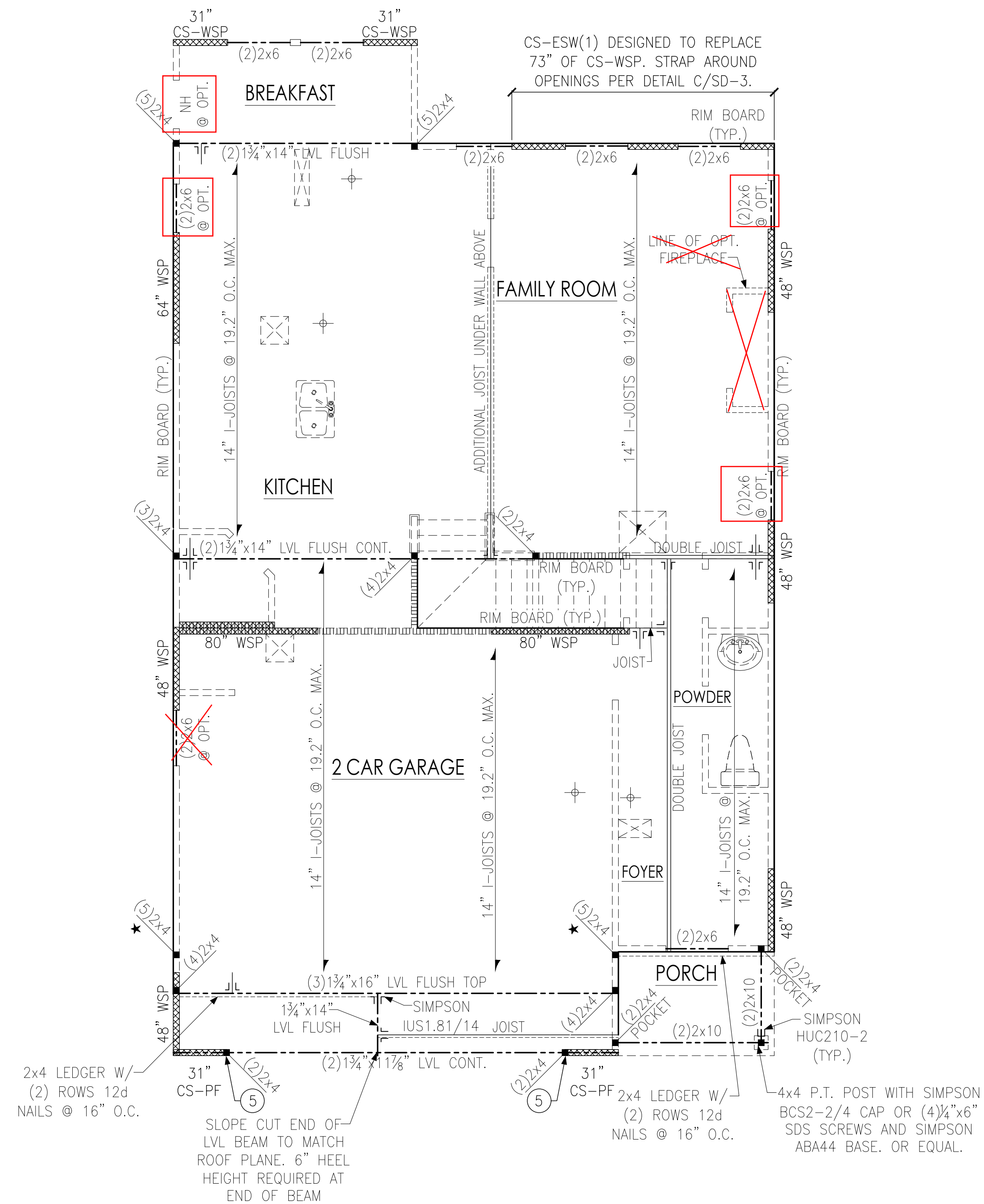
LEGEND

- PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- BEARING WALL ABOVE
- INTERIOR BEARING WALL
- BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS



Project #: 214-22001
Designed By: AAM
Checked By: KRK
Issue Date: 4/20/22
Re-Issue: 3/9/23
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34



NOTE:
BEAMS, HEADERS AND
FLOOR JOISTS MAY BE SYP
#2 GRADE LUMBER.

LEGEND

- PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- BEARING WALL ABOVE
- INTERIOR BEARING WALL
- BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
- NH → NO HEADER REQUIRED

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

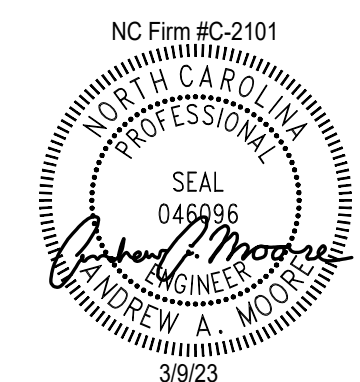
PLAN DESIGNED WITH 9' WALL PLATES

FLOOR FRAMING TO BE 14" DEEP BCI 5000s SERIES I-JOISTS @ 19.2" O.C. MAXIMUM OR EQUAL (U.N.O.). 1 1/8" BC RIM BOARD OSB.

KEYNOTES:

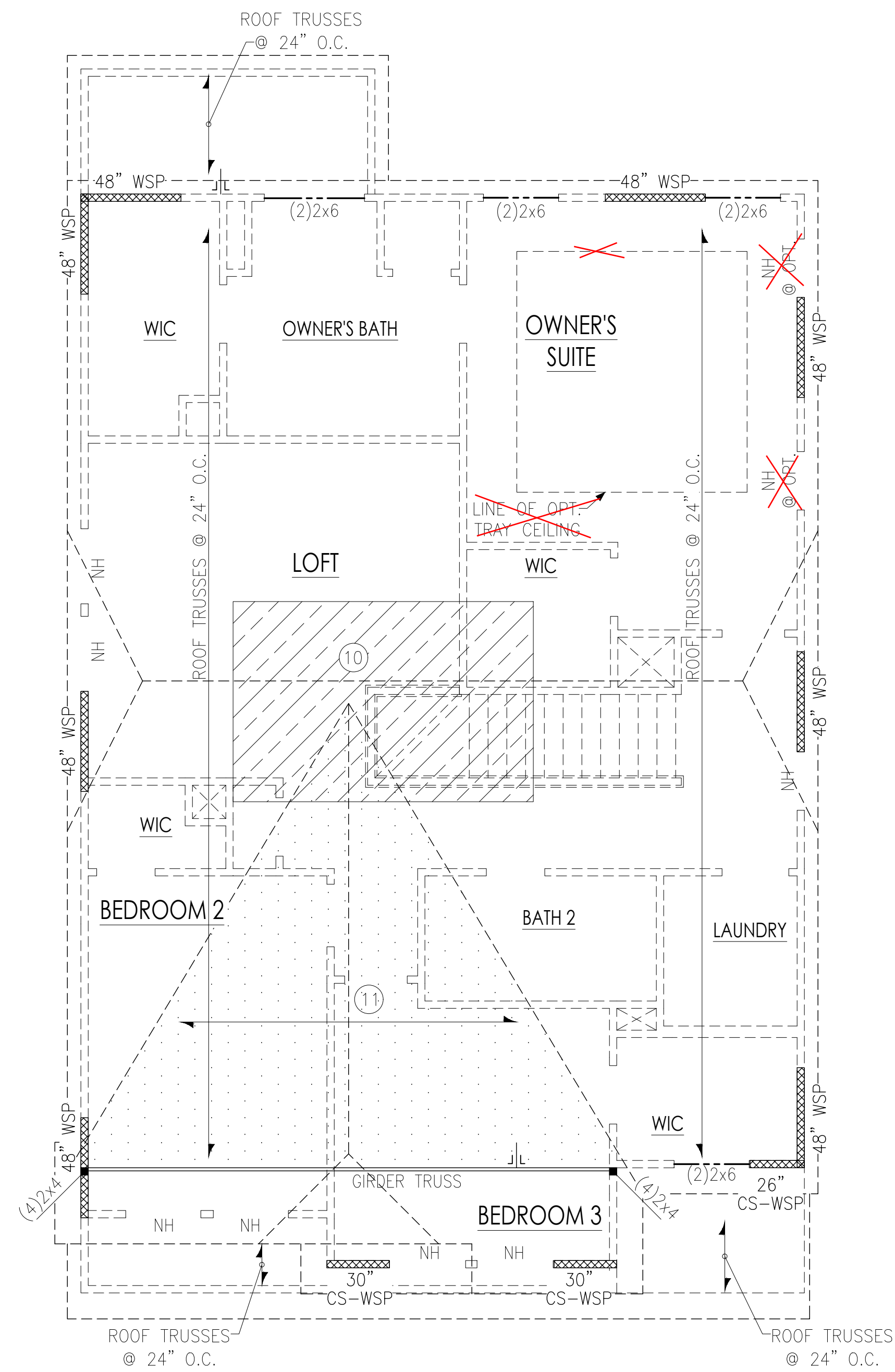
(5) INSTALL TWO PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.

SECOND FLOOR FRAMING PLAN
ELEVATION 'C'



Second Floor Framing Plans - I-Joists
Elevation 'C' & Option
1791 The Grace Model - LH
Up to 120 M.P.H.
Raleigh, North Carolina

Project #: 214-22001
Designed By: AAM
Checked By: KRK
Issue Date: 4/20/22
Re-Issue: 3/9/23
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34



ROOF FRAMING PLAN
ELEVATION 'C'

NOTE:
BEAMS, HEADERS AND
FLOOR JOISTS MAY BE SYP
#2 GRADE LUMBER.

LEGEND

- PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- BEARING WALL ABOVE
- INTERIOR BEARING WALL
- BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
- 48" WSP
- NO HEADER REQUIRED

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PLAN DESIGNED WITH 8' WALL PLATES

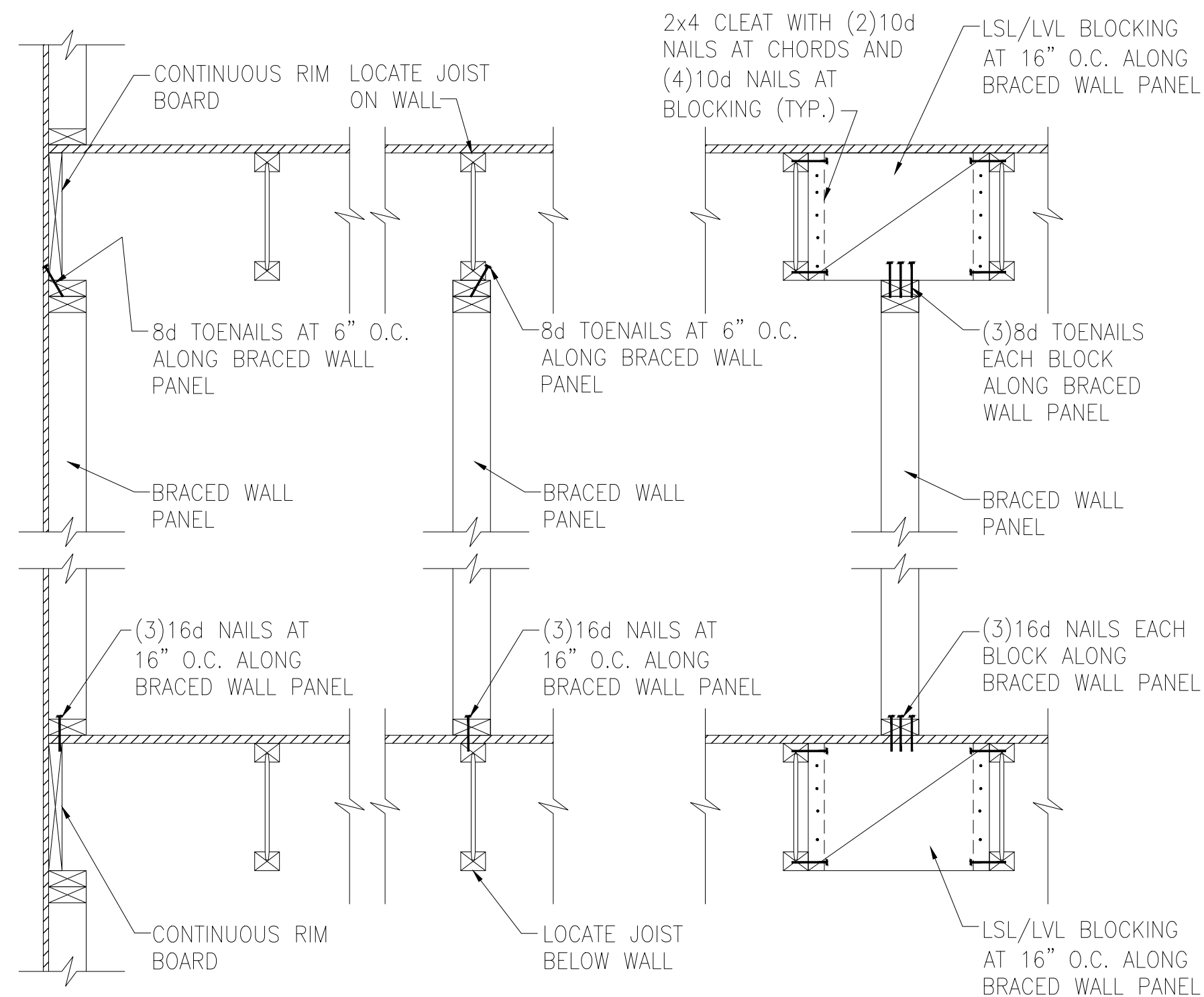
KEYNOTES:

- ⑩ 8'x12' HVAC PLATFORM TRUSSES DESIGNED TO SUPPORT HVAC UNITS.
- ⑪ VALLEY SET TRUSSES @ 24" O.C. OR 2x6 OVERFRAMING @ 24" O.C. W/ 2x8 RIDGE & VALLEY PLATES (TYP.)

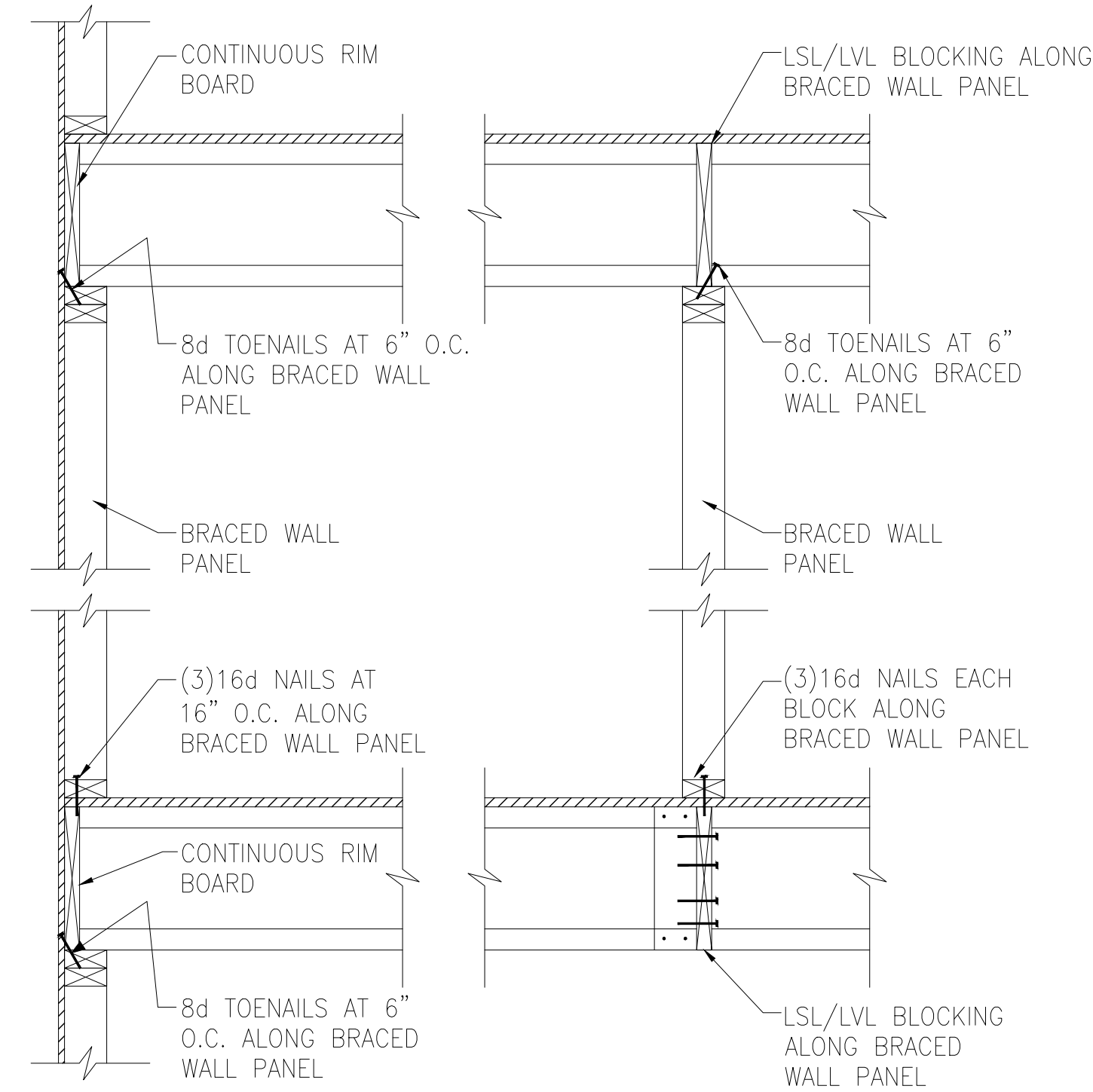


Roof Framing Plan
Elevation 'C'
1791 The Grace Model - LH
Up to 120 M.P.H.
Raleigh, North Carolina

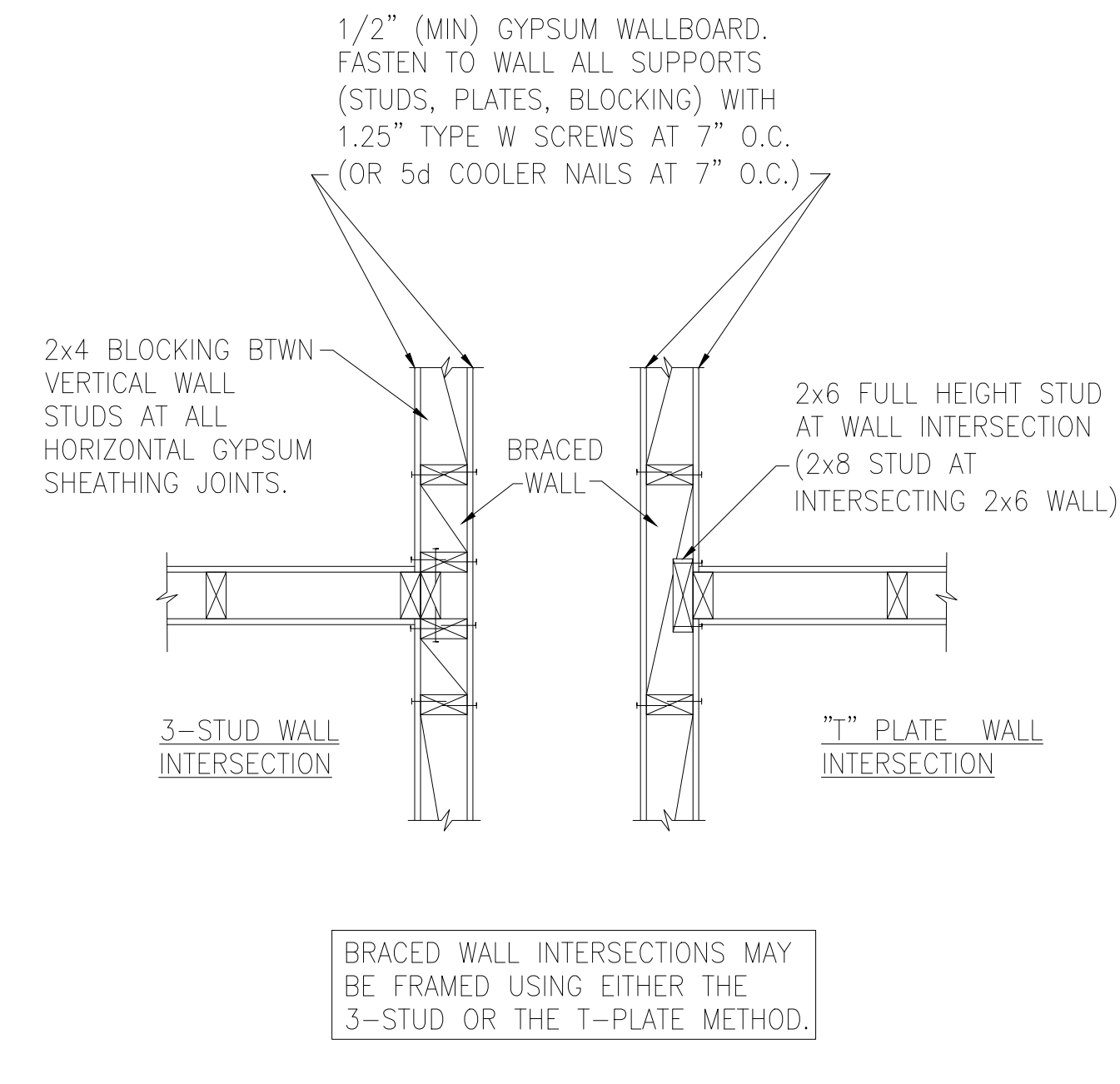
Project #: 214-22001
Designed By: AAM
Checked By: KRK
Issue Date: 4/20/22
Re-Issue: 3/9/23
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34



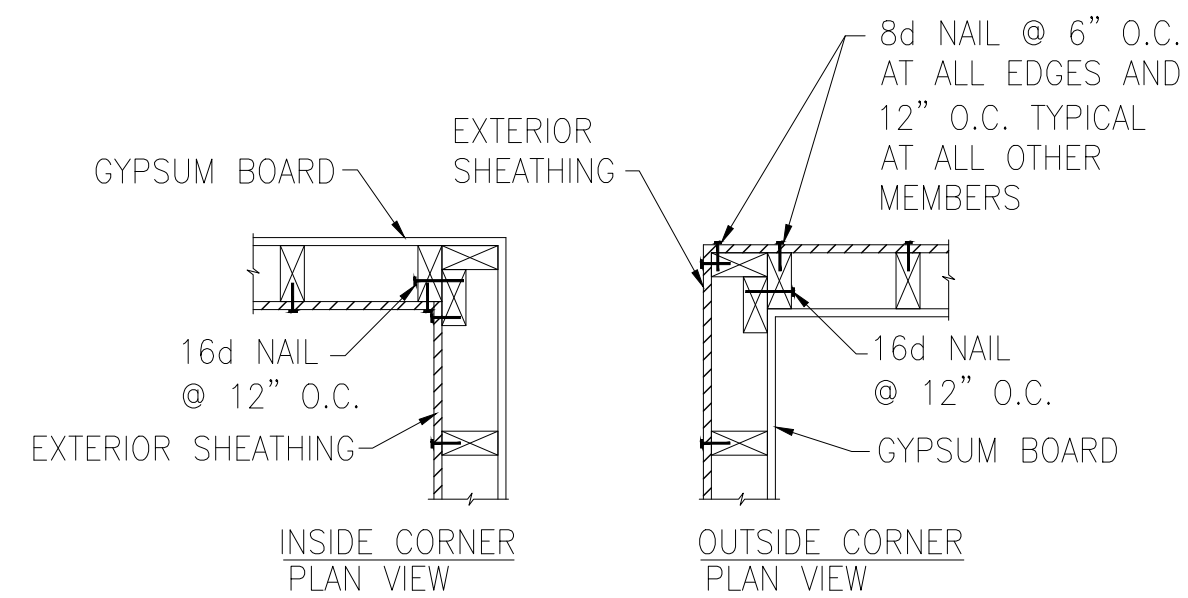
A TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION
 BRACED WALL PANELS PARALLEL TO I-JOISTS



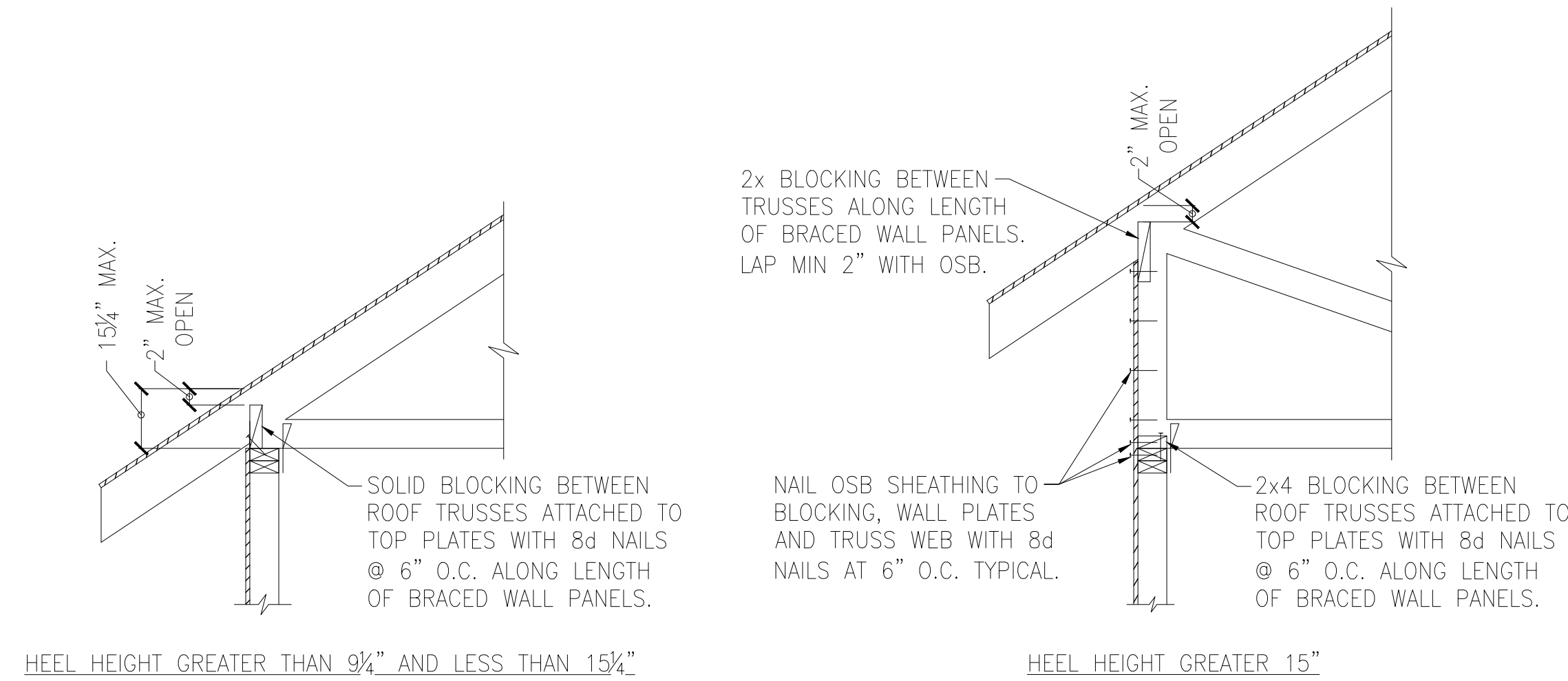
B TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION
 BRACED WALL PANELS PERPENDICULAR TO I-JOISTS



C METHOD GB(1) AND GB(2) INTERSECTION DETAILS



D TYPICAL EXTERIOR CORNER WALL FRAMING



E ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS
 ONLY REQUIRED AT BRACED WALL PANELS

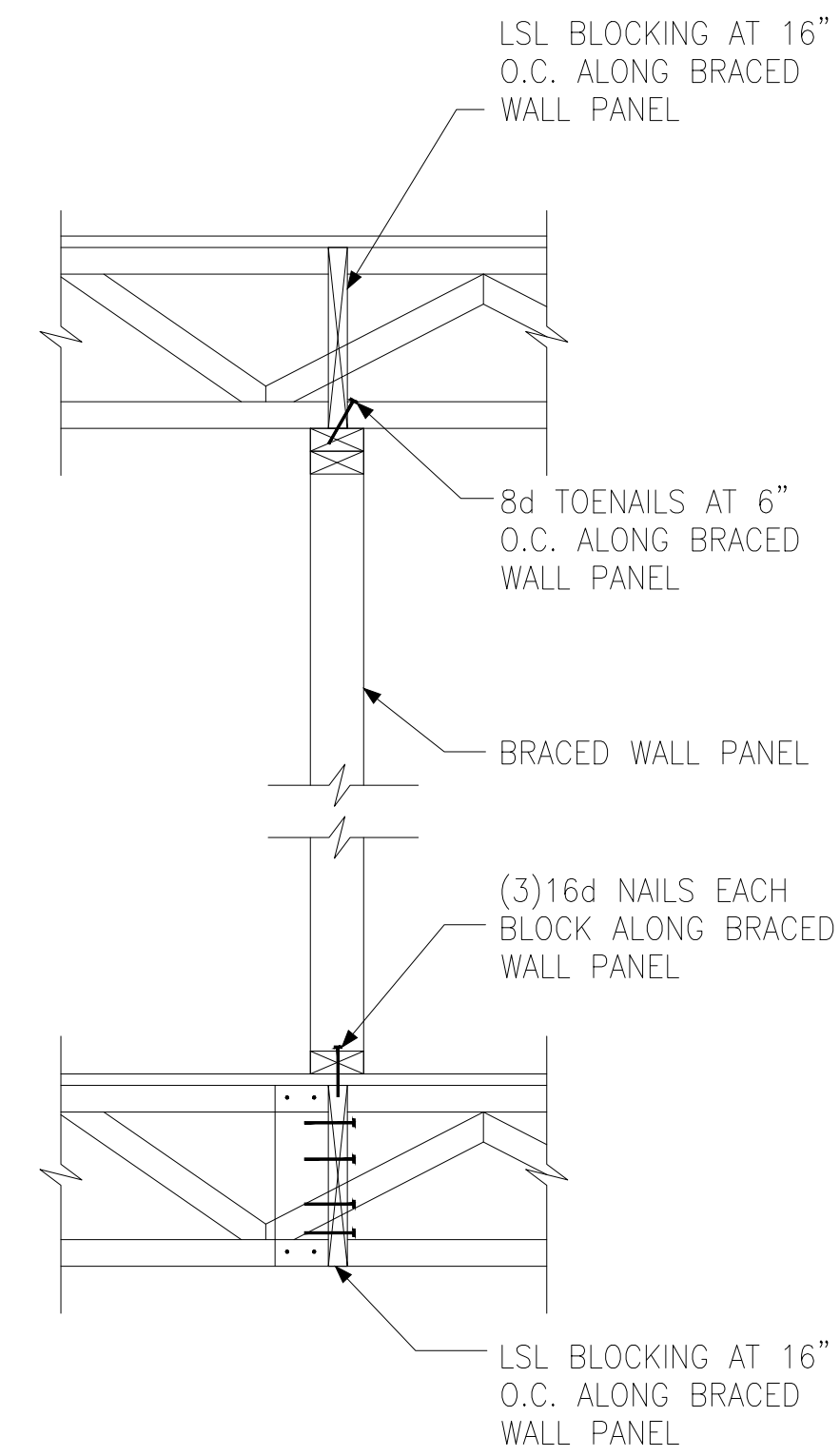
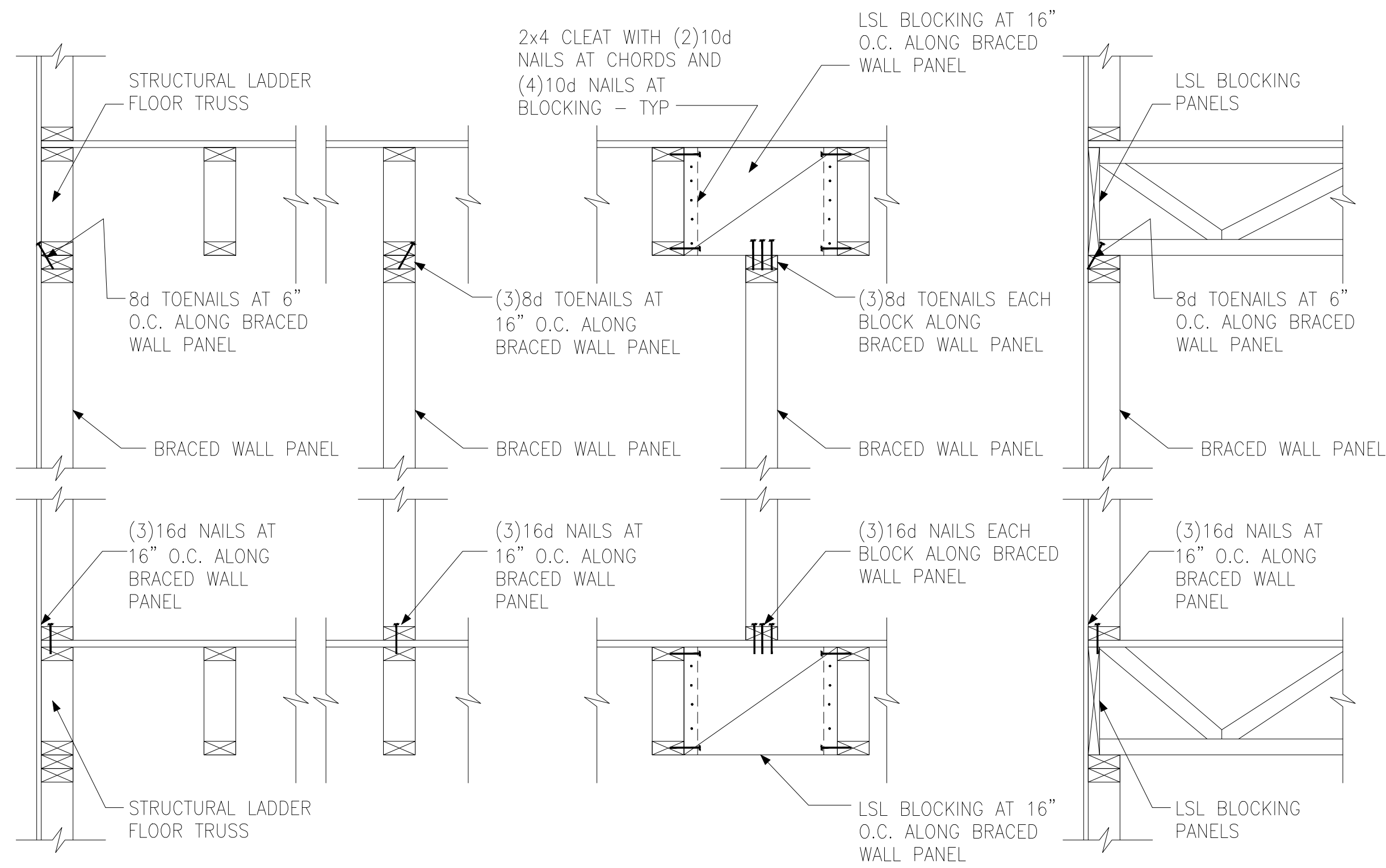
Braced Wall Details

Up to 120 M.P.H.
 Raleigh, North Carolina

Project #: 214-22000
 Designed By: KRK
 Checked By:
 Issue Date: 3/6/23
 Re-Issue:
 Scale: 1/8"=1'-0" @ 11x17
 1/4"=1'-0" @ 22x34



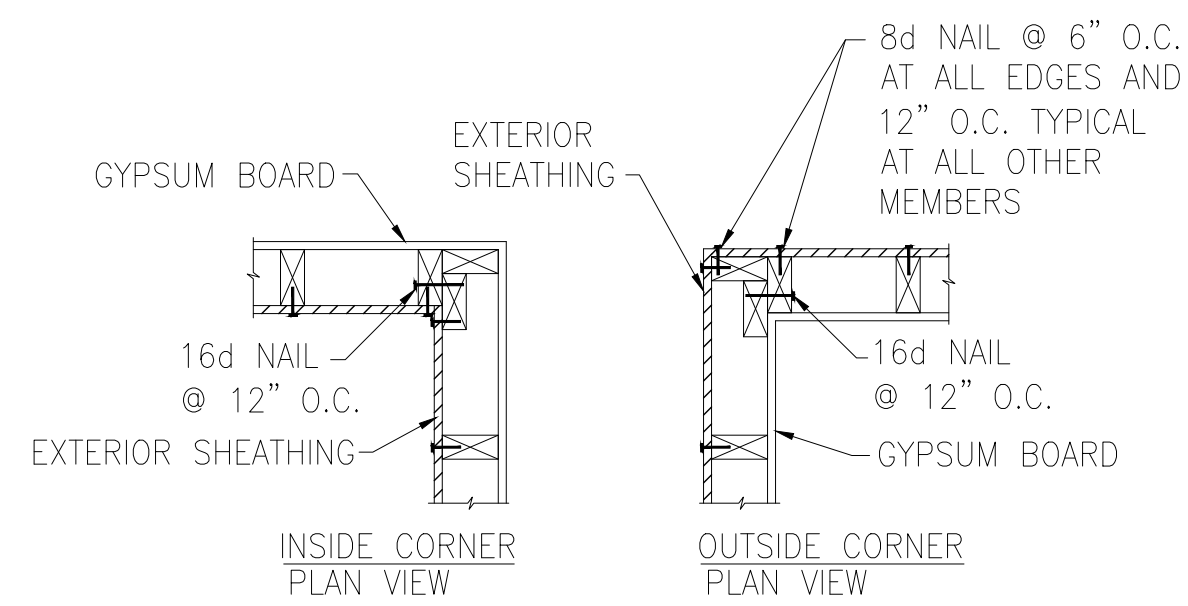
Wellers Knoll Lot 66



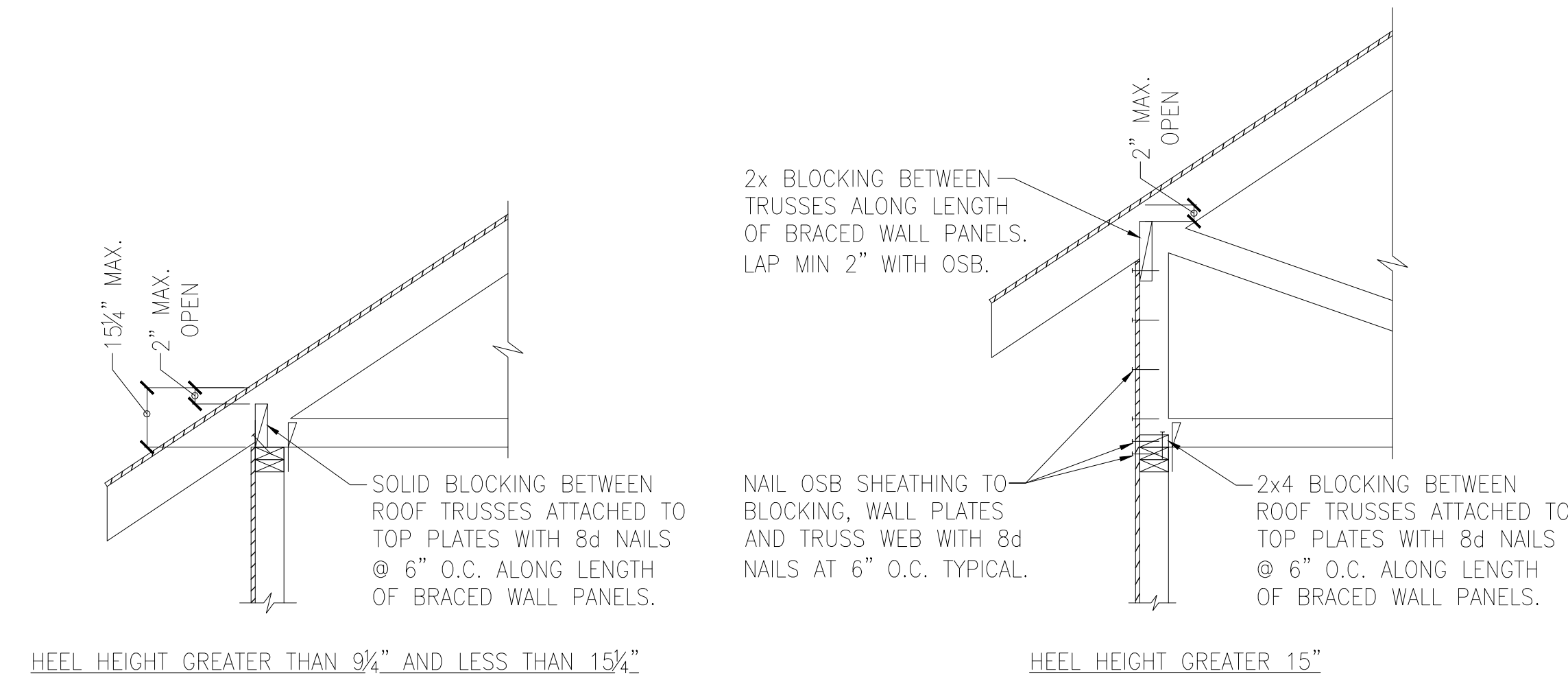
A TYPICAL BRACED WALL PANEL TO FLOOR / CEILING CONNECTION
BRACED WALL PANELS PARALLEL TO TRUSSES

B TYPICAL BRACED WALL PANEL TO FLOOR / CEILING CONNECTION
BRACED WALL PANELS PERPENDICULAR TO TRUSSES

C METHOD GB(1) AND GB(2) INTERSECTION DETAILS



D TYPICAL EXTERIOR CORNER WALL FRAMING



E ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS
ONLY REQUIRED AT BRACED WALL PANELS



Braced Wall Details
Up to 120 M.P.H.
Raleigh, North Carolina

Project #: 214-22000
Designed By: KRK
Checked By:
Issue Date: 3/6/23
Re-Issue:
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34



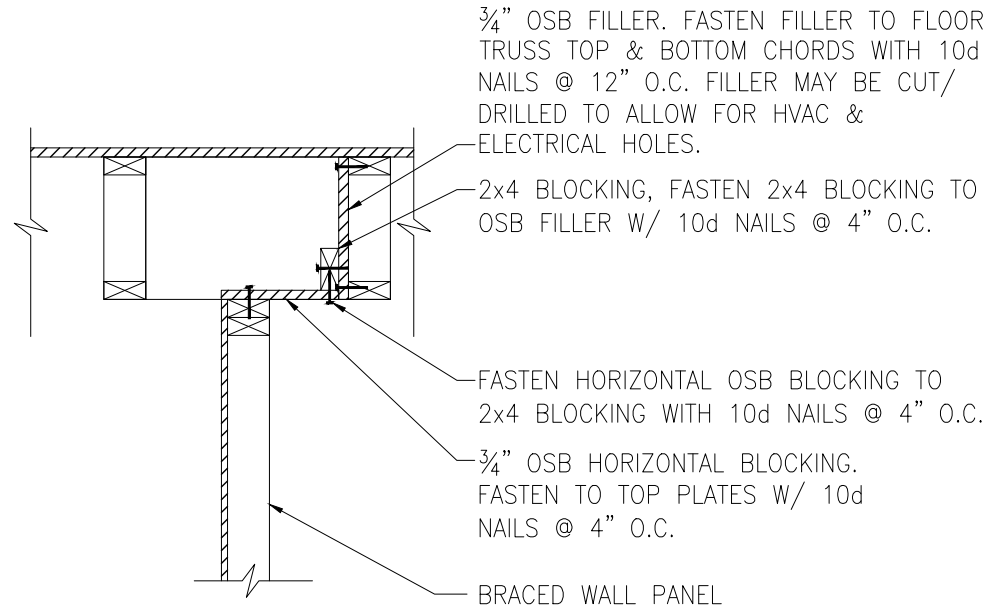


1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951
www.kse-eng.com (215) 804-4449

Project #:	214-22009
Designed By:	AAM
Checked By:	AAM
Issue Date:	10/19/23
Re-Issue:	
Scale:	N.T.S.
Sheet:	SK-1 of 2

Davidson Homes

All Models Designed by KSE
Alternate Braced Wall Details
Raleigh, North Carolina



PARALLEL BRACING DETAIL

Wellers Knoll Lot 66



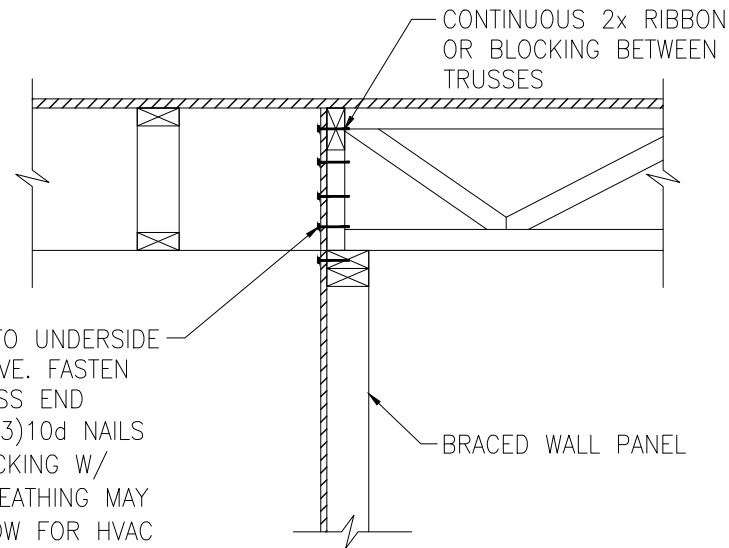


1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951
www.kse-eng.com (215) 804-4449

Project #:	214-22009
Designed By:	AAM
Checked By:	AAM
Issue Date:	10/19/23
Re-Issue:	
Scale:	N.T.S.
Sheet:	SK-2 of 2

Davidson Homes

All Models Designed by KSE
Alternate Braced Wall Details
Raleigh, North Carolina

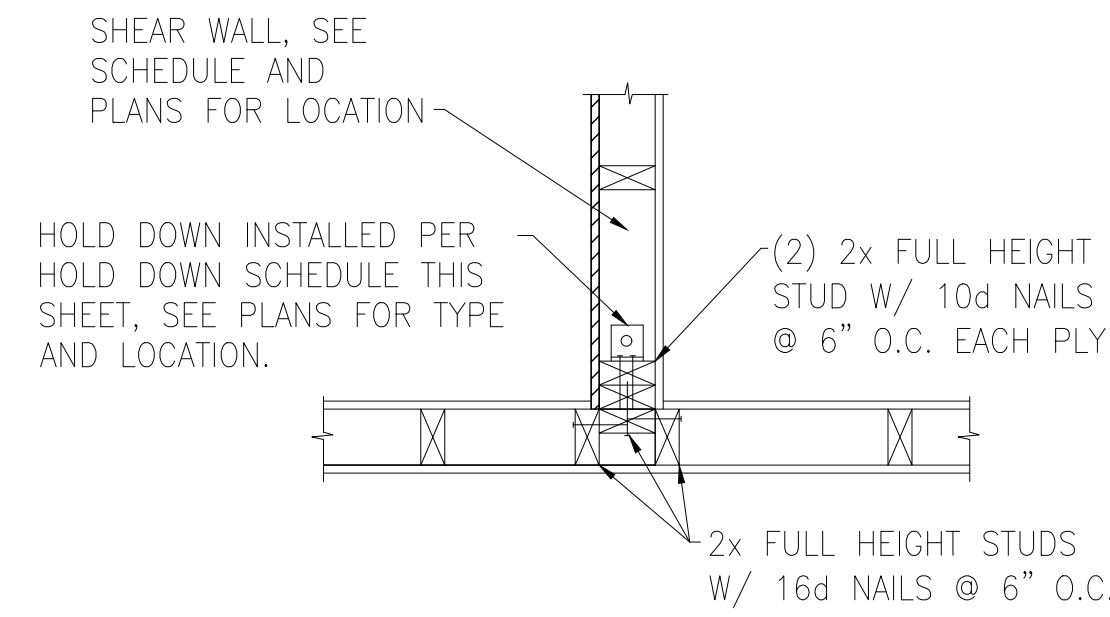


PERPENDICULAR BRACING DETAIL

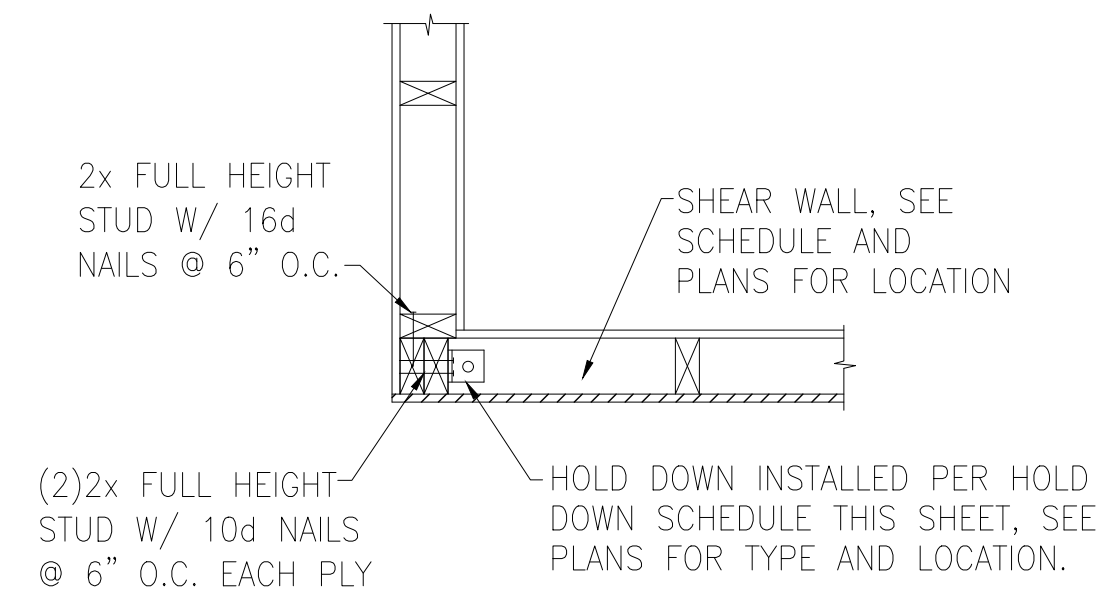
Wellers Knoll Lot 66



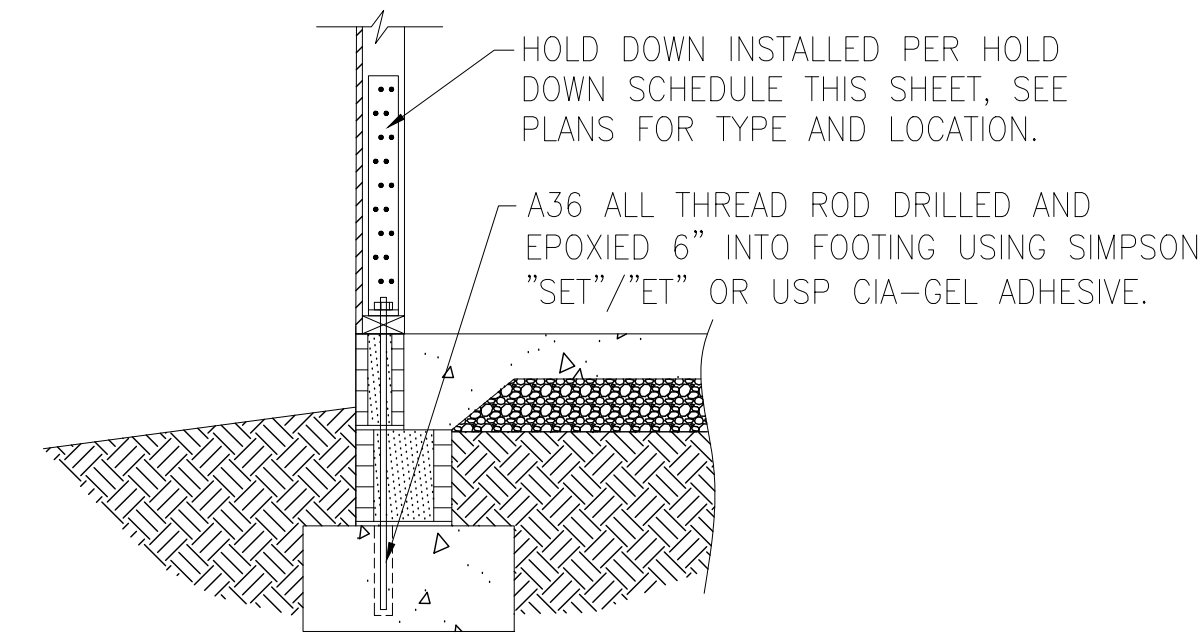
Wellers Knoll Lot 66



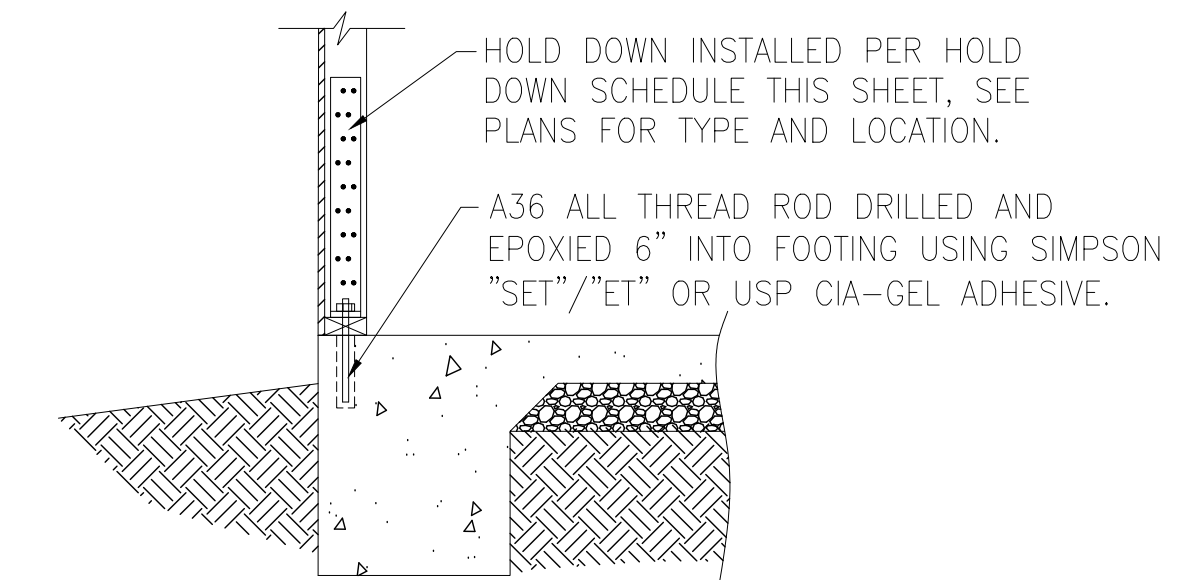
A TYPICAL HOLD DOWN DETAIL



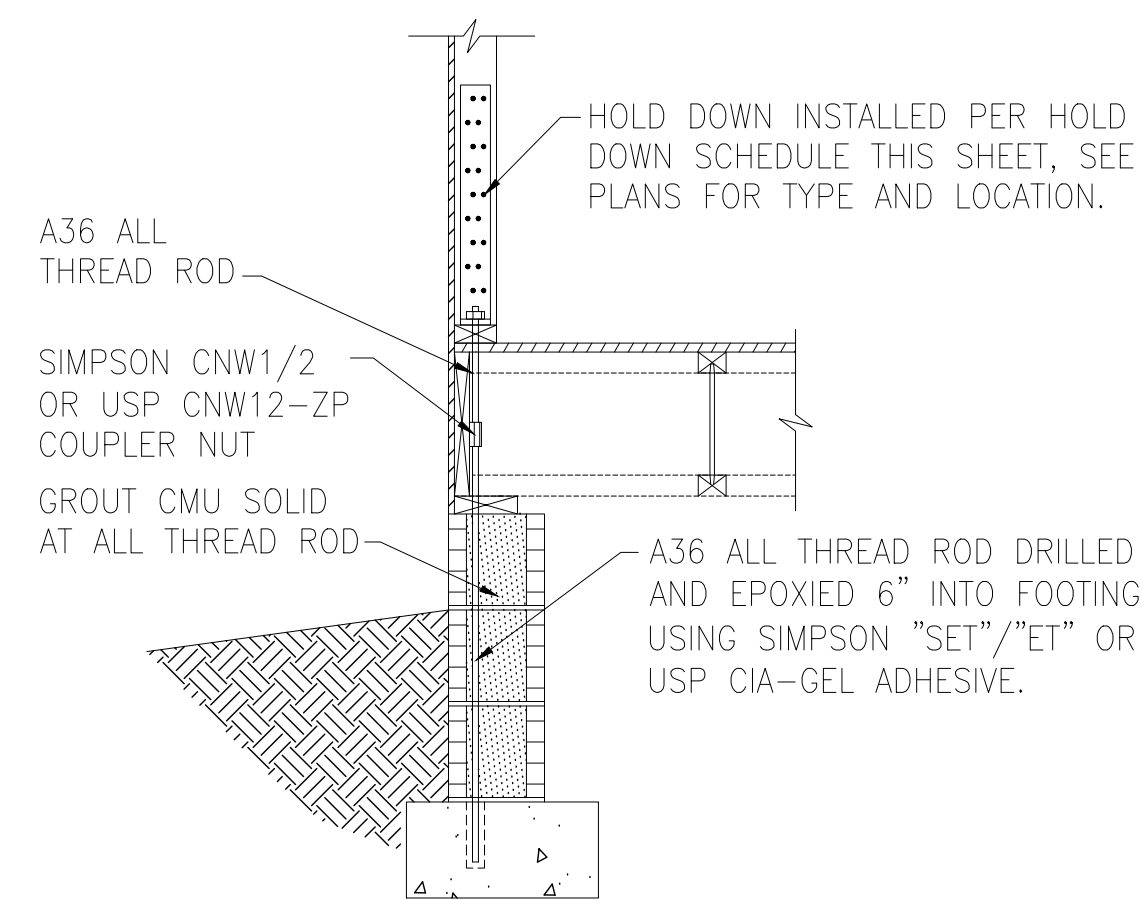
B TYPICAL HOLD DOWN DETAIL



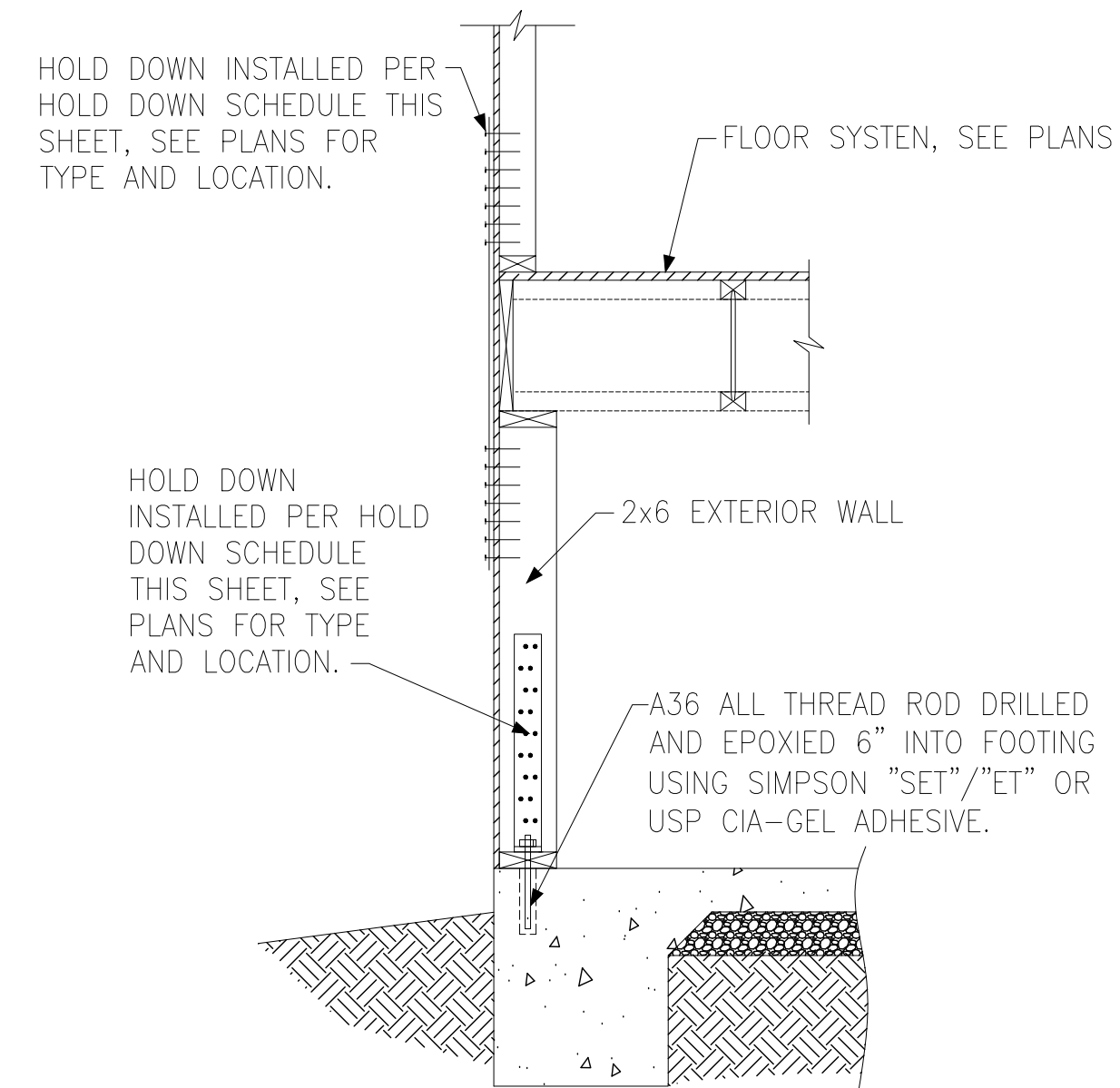
C HOLD DOWN AT STEMWALL SLAB FOUNDATION



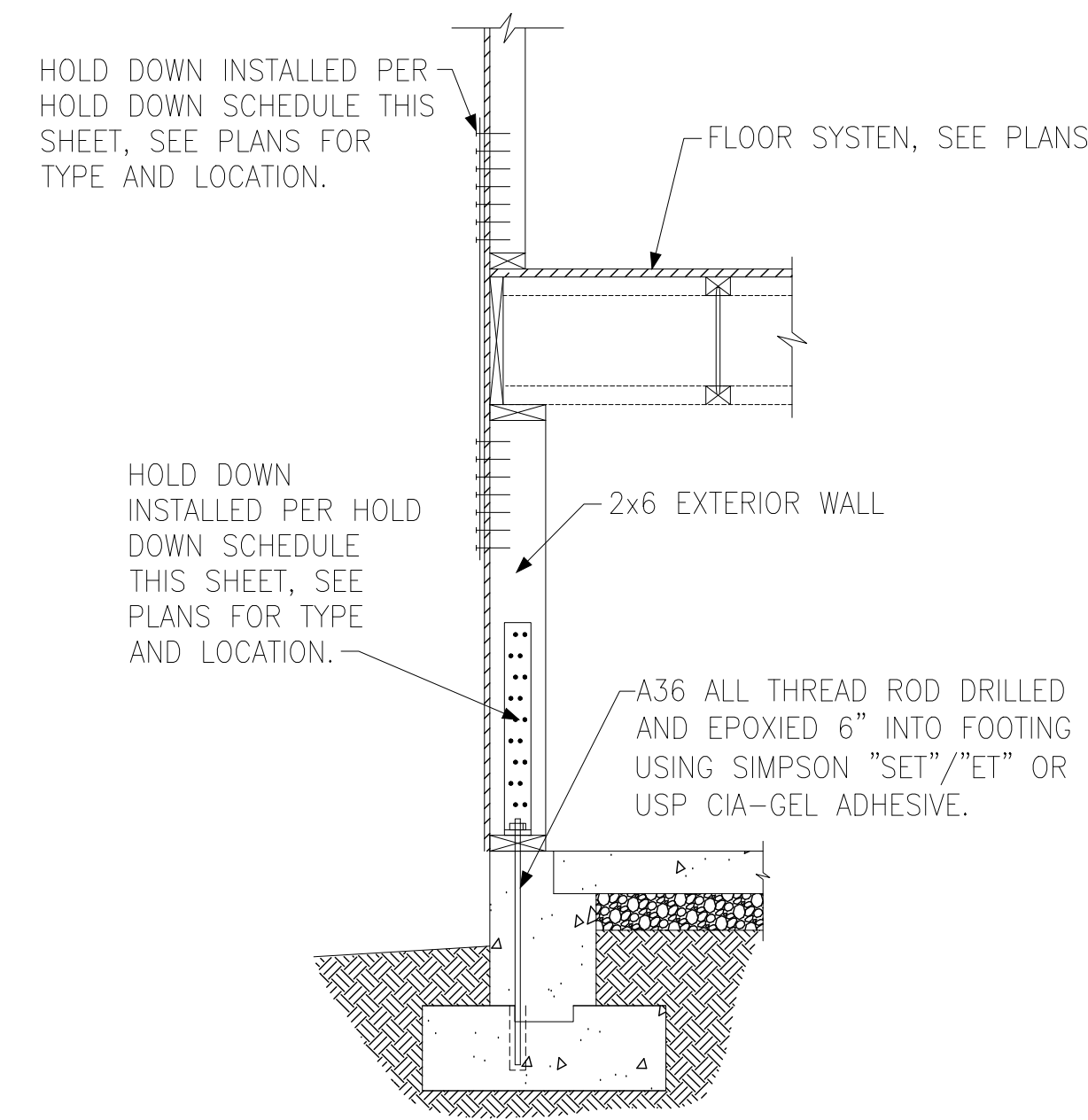
D HOLD DOWN AT MONOLITHIC SLAB FOUNDATION



E HOLD DOWN AT CRAWL SPACE FOUNDATION



F HOLD DOWN AT BASEMENT FOUNDATION MONOLITHIC TURN-DOWN



G HOLD DOWN AT BASEMENT FOUNDATION STEM WALL

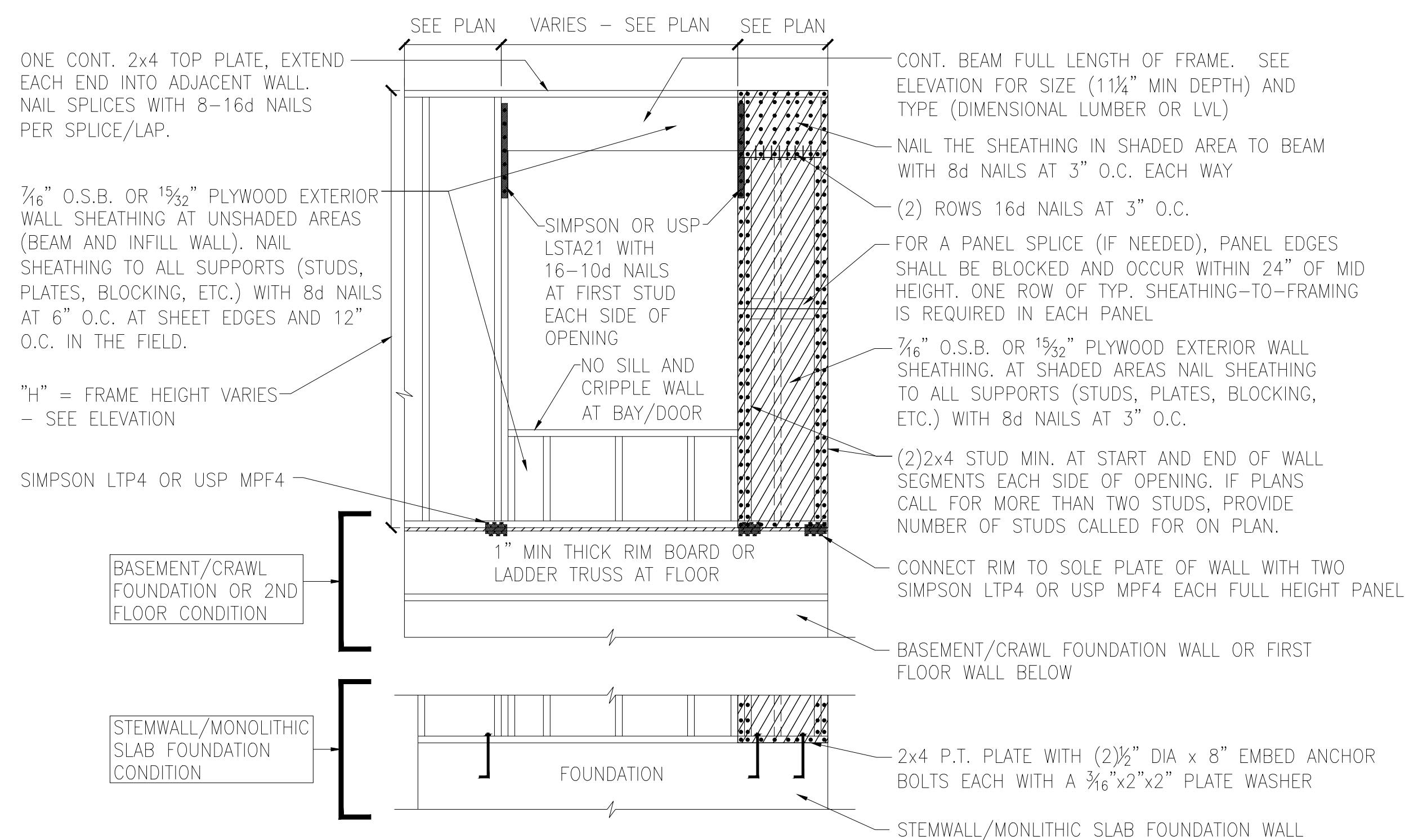
HOLD DOWN SCHEDULE			
HOLD DOWN		ALL THREAD ROD	FASTENERS
SIMPSON	USP		
LTP2	LTS20B	½" DIA.	(12)0.148"x2.5" LONG NAILS
HTT4	HTT16	⅝" DIA.	(18)0.162"x2.5" LONG NAILS
HTT5	HTT45	⅝" DIA.	(26)0.162"x2.5" LONG NAILS

Hold Down Details

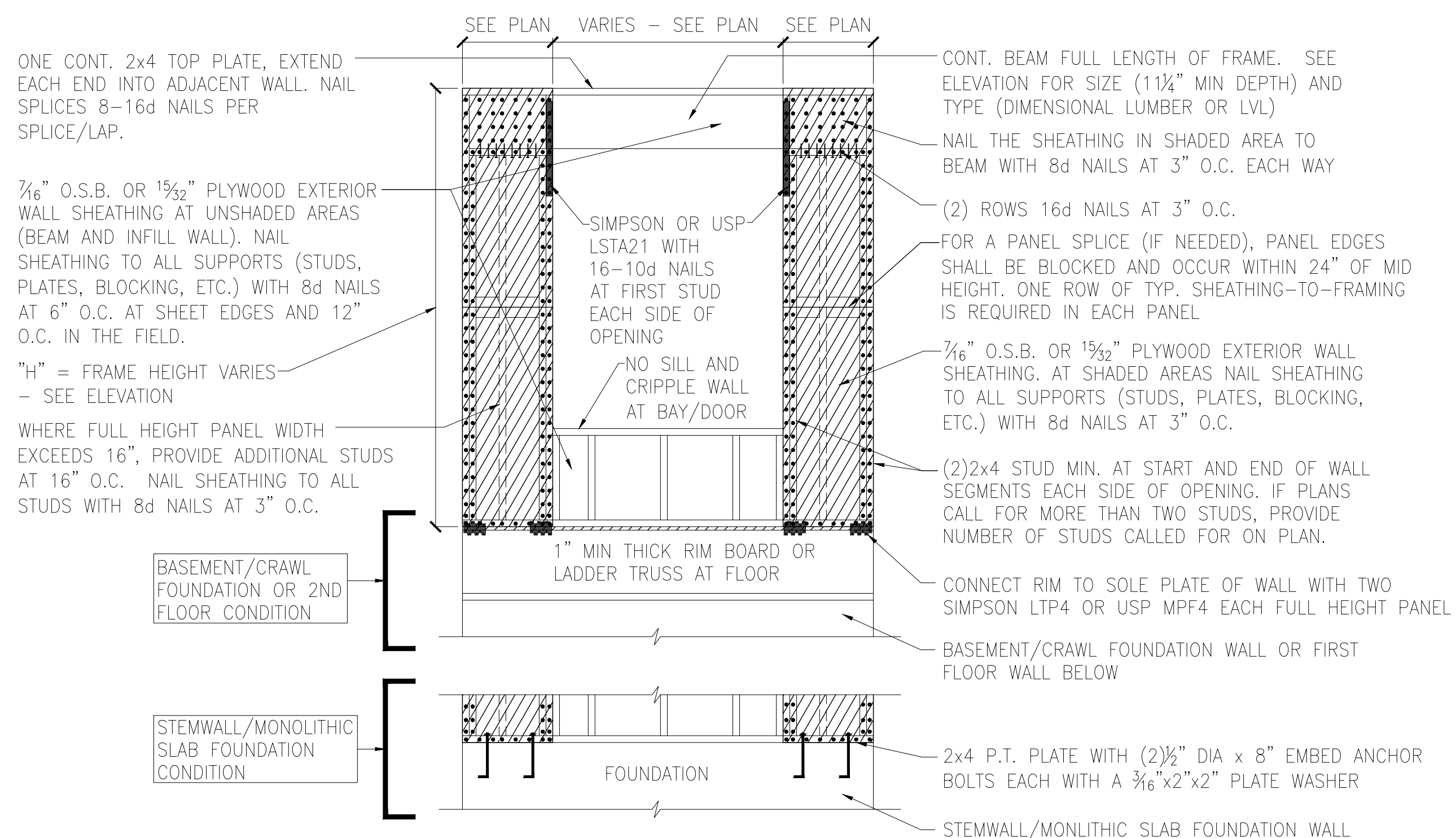
Up to 120 M.P.H.
Raleigh, North Carolina

Project #: 214-22000
Designed By: KRK
Checked By:
Issue Date: 3/6/23
Re-Issue:
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

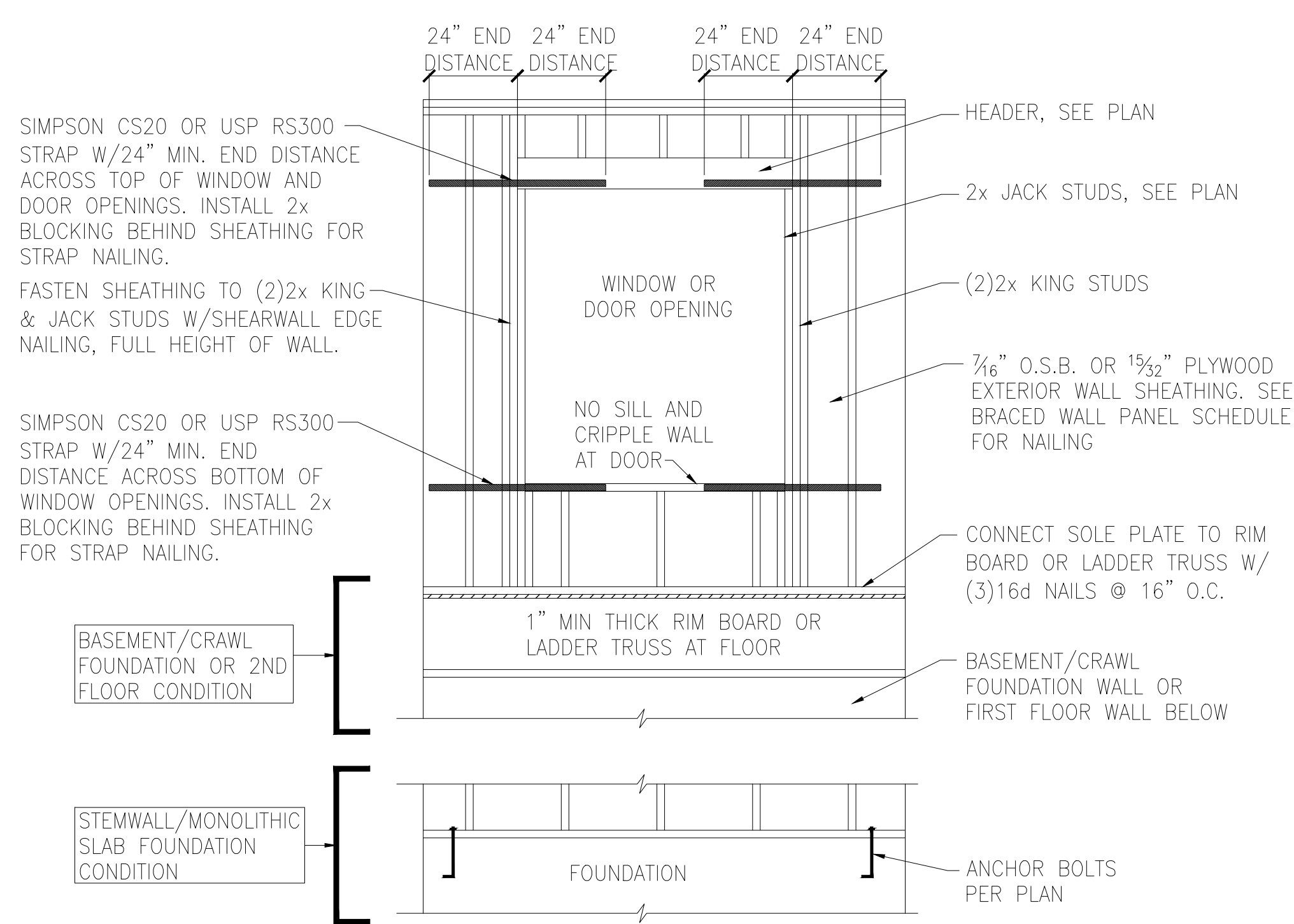




A METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
ONE BRACED WALL SEGMENT



B METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
TWO BRACED WALL SEGMENTS



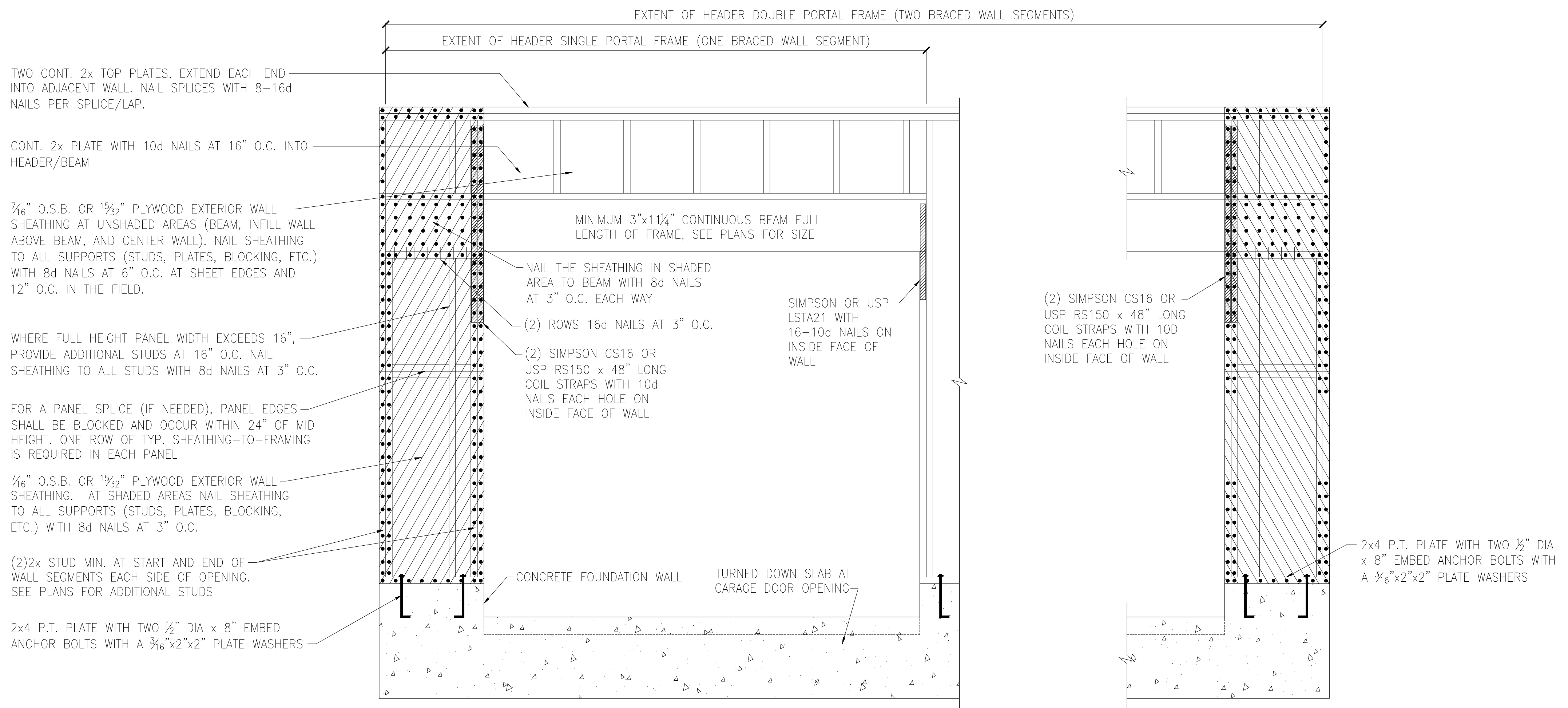
C WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL
ONLY REQUIRED WHERE SPECIFIED ON PLANS

BRACED WALL PANEL AND ENGINEERED SHEAR WALL SCHEDULE			
PANEL TYPES	PANEL TYPE	MATERIAL	FASTENERS
WSP	INTERMITTENT WOOD STRUCTURAL PANEL	7/16" OSB	6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS
GB(1)	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.
GB(1)-4	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 4" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.
GB(2)	INTERMITTENT GYPSUM BOARD (SHEATHING BOTH FACES OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.
CS-WSP	CONTINUOUS SHEATHED WOOD STRUCTURAL PANEL	7/16" OSB	6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS
CS-PF	CONTINUOUS SHEATHED PORTAL FRAME	7/16" OSB	NAILING PER DETAIL
PFH	PORTAL FRAME WITH HOLD DOWNS	7/16" OSB	NAILING PER DETAIL
CS-ESW(1)	ENGINEERED SHEAR WALL, TYPE 1	7/16" OSB	8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS
CS-ESW(2)	ENGINEERED SHEAR WALL, TYPE 2	7/16" OSB	8D COMMON NAILS AT 4" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS
CS-ESW(3)	ENGINEERED SHEAR WALL, TYPE 3	7/16" OSB	8D COMMON NAILS AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS

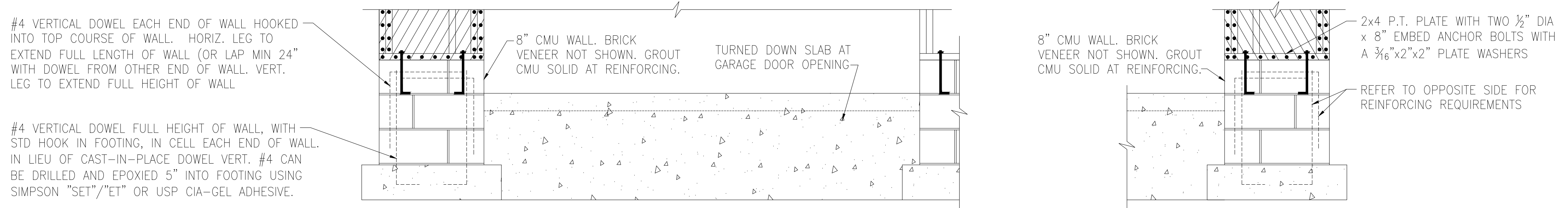
BRACED WALL PANEL NOTES:

- ALL BRACED WALL PANELS, EXCEPT GB(1) & GB(2), SHALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES.
- PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS.
- SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH 7/16" O.S.B., OR 1/2" PLYWOOD, FASTENED PER IRC. AT EXTERIOR CORNERS, SHEATHING SHALL BE FASTENED PER KSE BRACED WALL DETAILS. AT INTERIOR WALL INTERSECTIONS, FASTEN STUDS & WALL BRACING PER KSE BRACED WALL DETAILS.
- BRACED WALL PANELS AND ENGINEERED SHEAR WALLS ARE PROVIDED PER IRC. PANEL LENGTHS SHOWN ON PLANS ARE THE MINIMUM LENGTH REQUIRED.

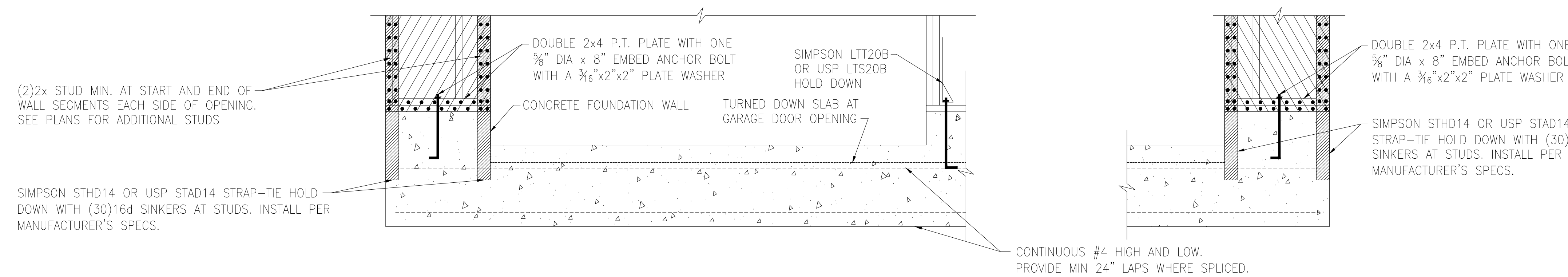




(A) METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
MONOLITHIC SLAB OR BASEMENT FOUNDATION



(B) METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
STEMWALL SLAB OR CRAWL SPACE FOUNDATION

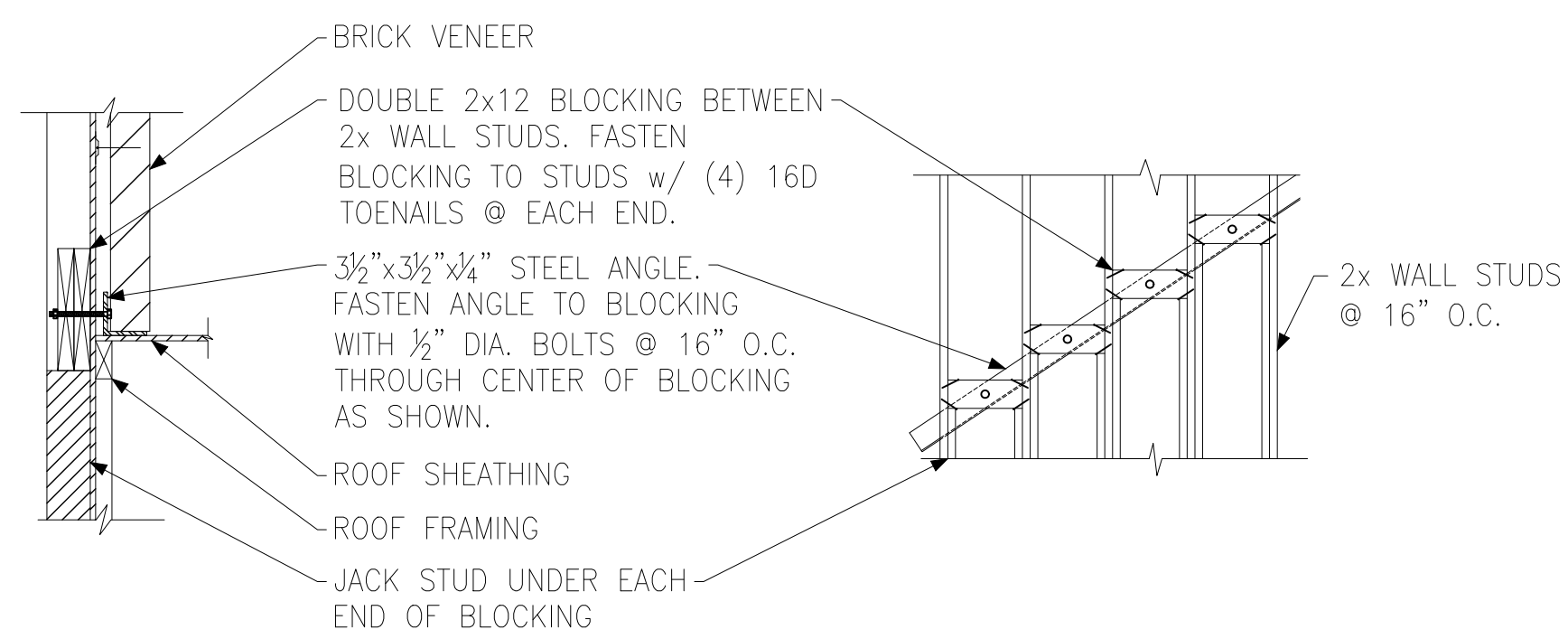


(C) METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS
MONOLITHIC SLAB OR BASEMENT FOUNDATION



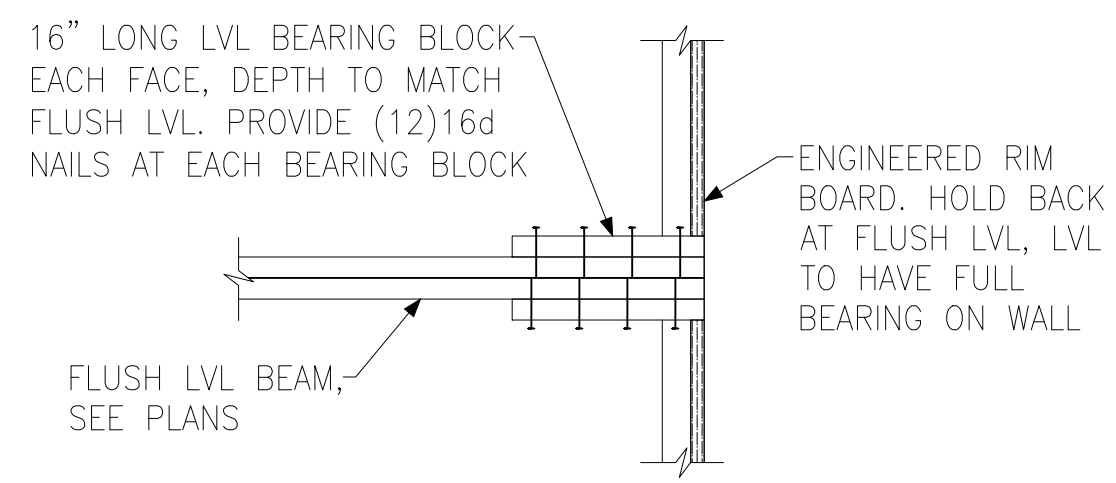
Portal Frame Details
Up to 120 M.P.H.
Raleigh, North Carolina

Project #: 214-22000
Designed By: KRK
Checked By:
Issue Date: 3/6/23
Re-Issue:
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

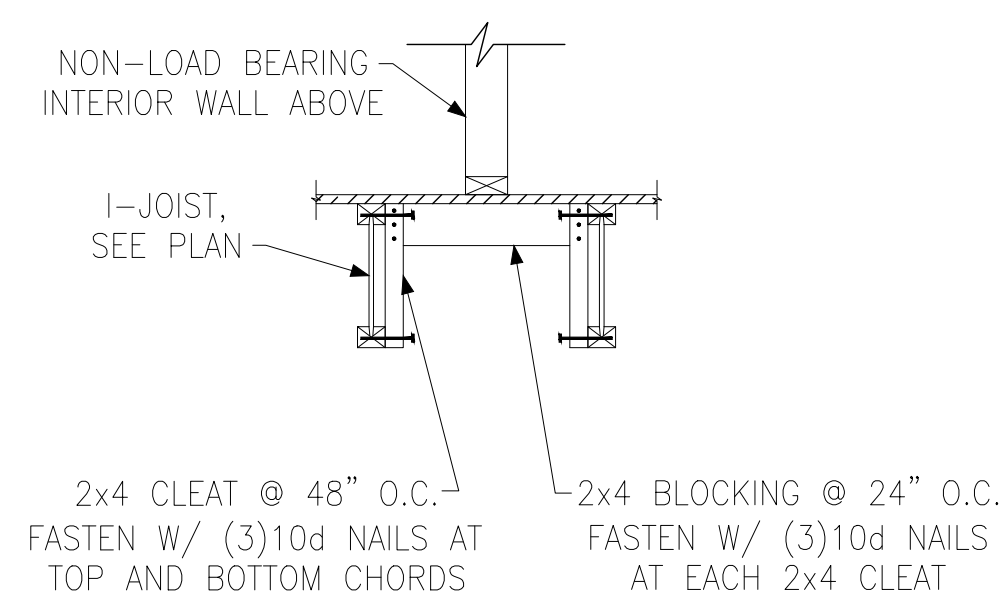


SECTION VIEW ELEVATION VIEW

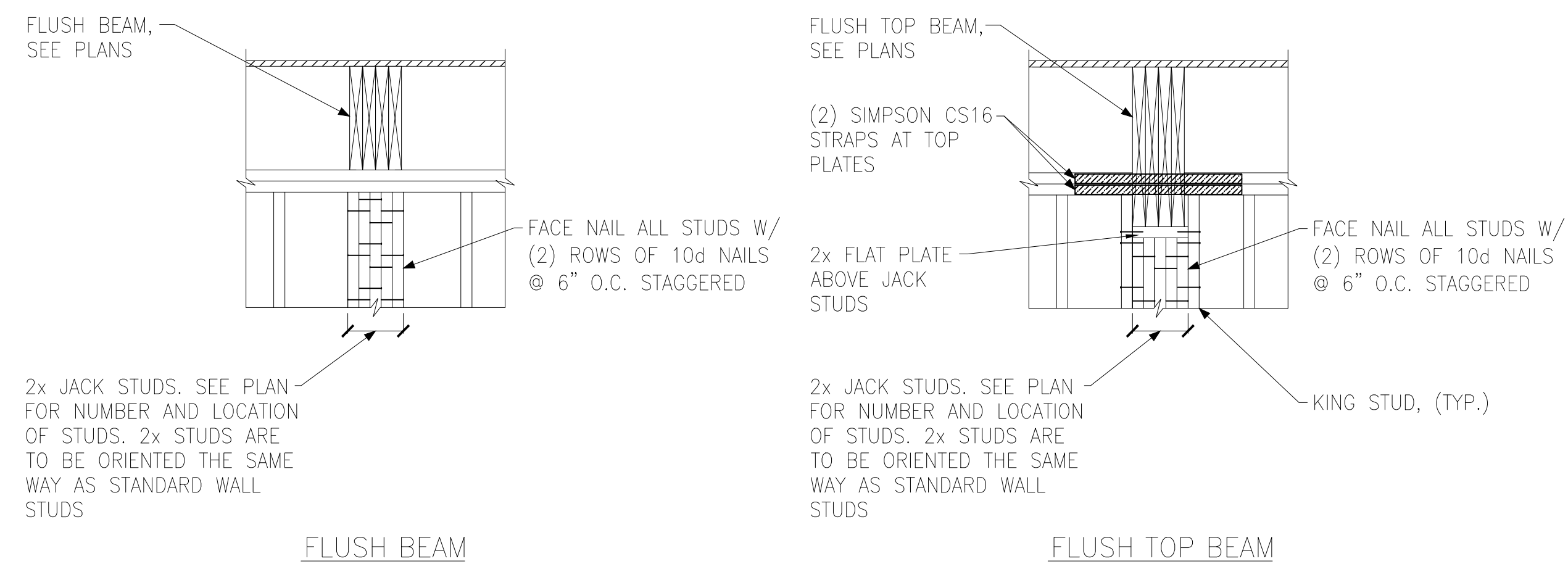
A BRICK LEDGER CONNECTION DETAIL



B BEARING ENHANCER FLUSH LVL



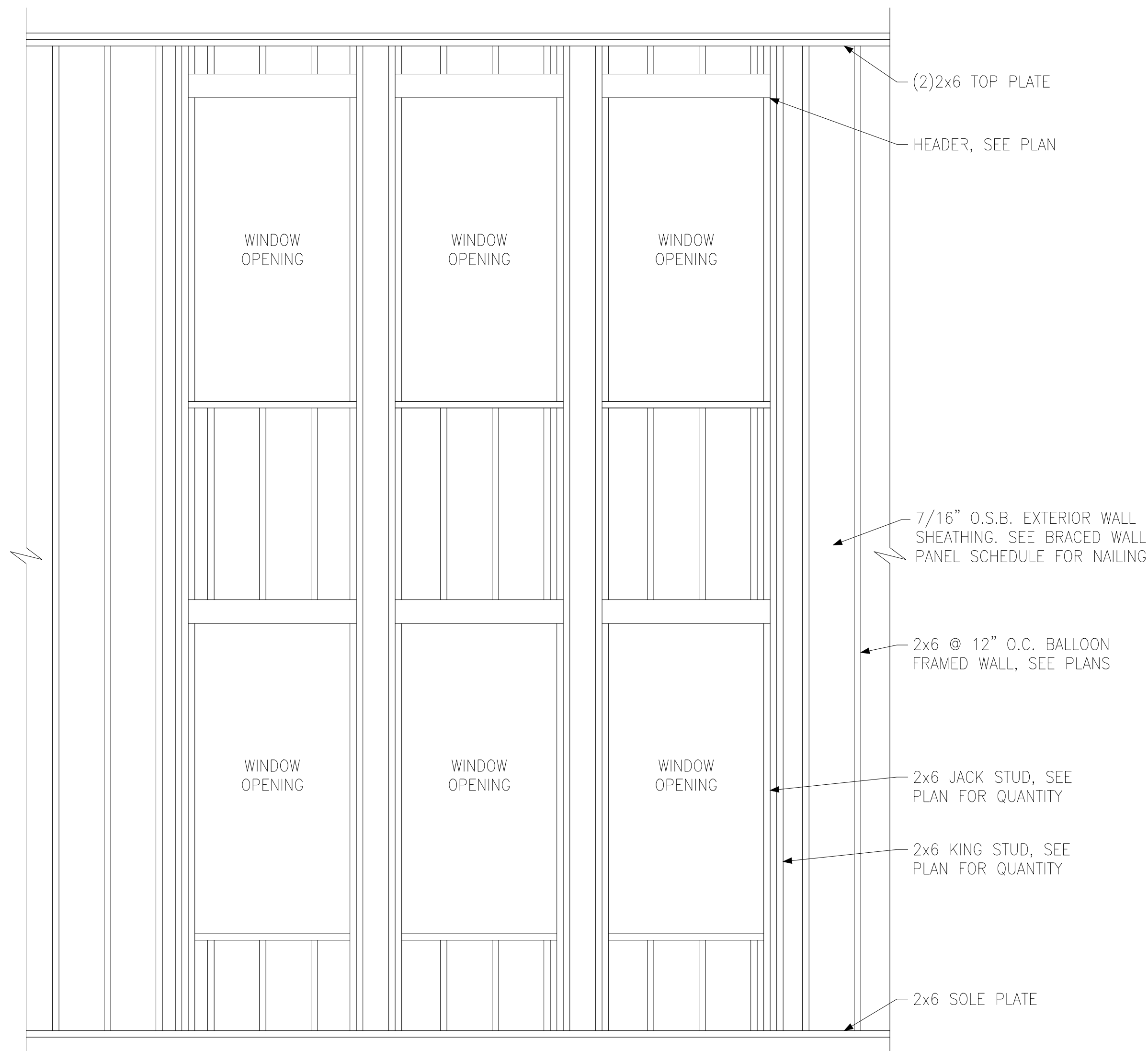
C I-JOIST LADDER BLOCKING AS REQUIRED @ PARALLEL WALLS



FLUSH BEAM

FLUSH TOP BEAM

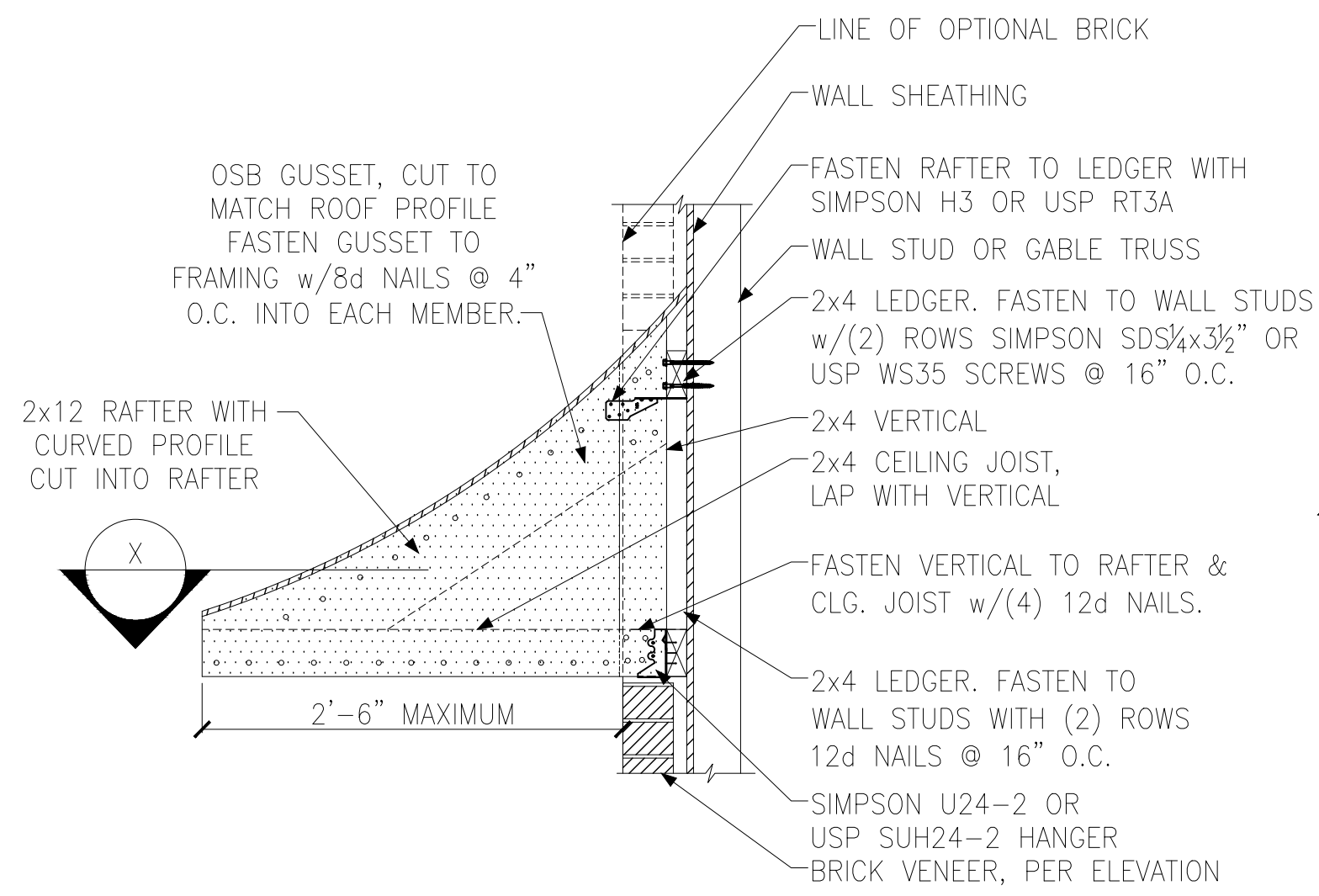
E BUILT-UP STUD DETAIL SUPPORTING BEAM



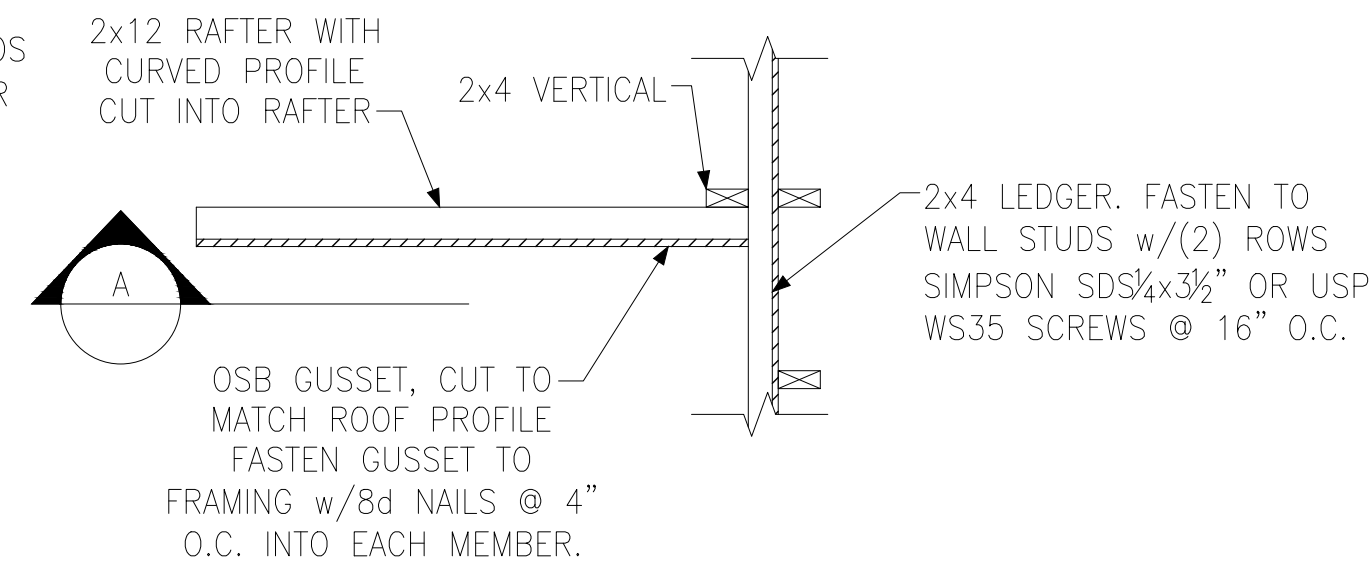
D BALLOON FRAMED WALL DETAIL N.T.S.



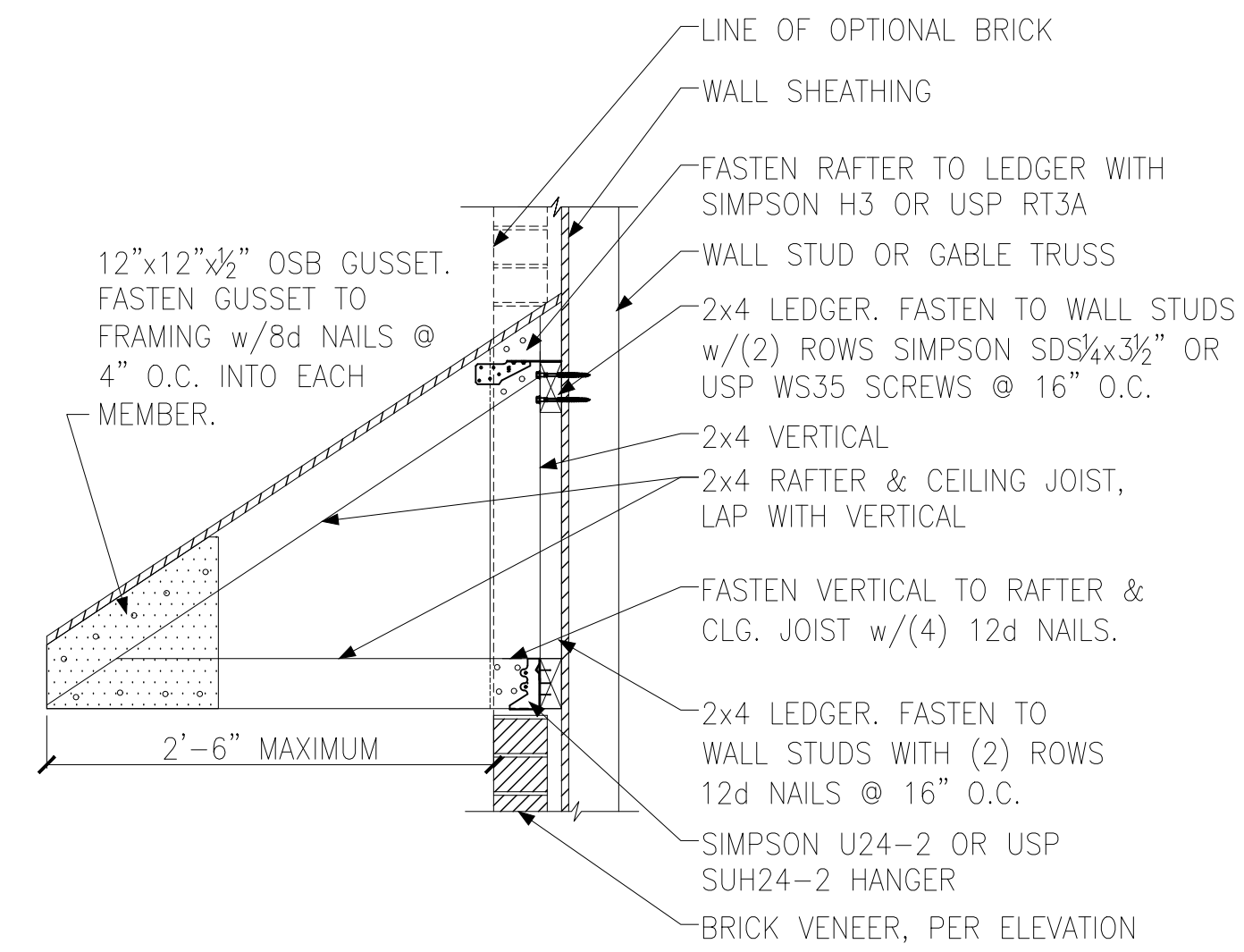
Wellers Knoll Lot 66



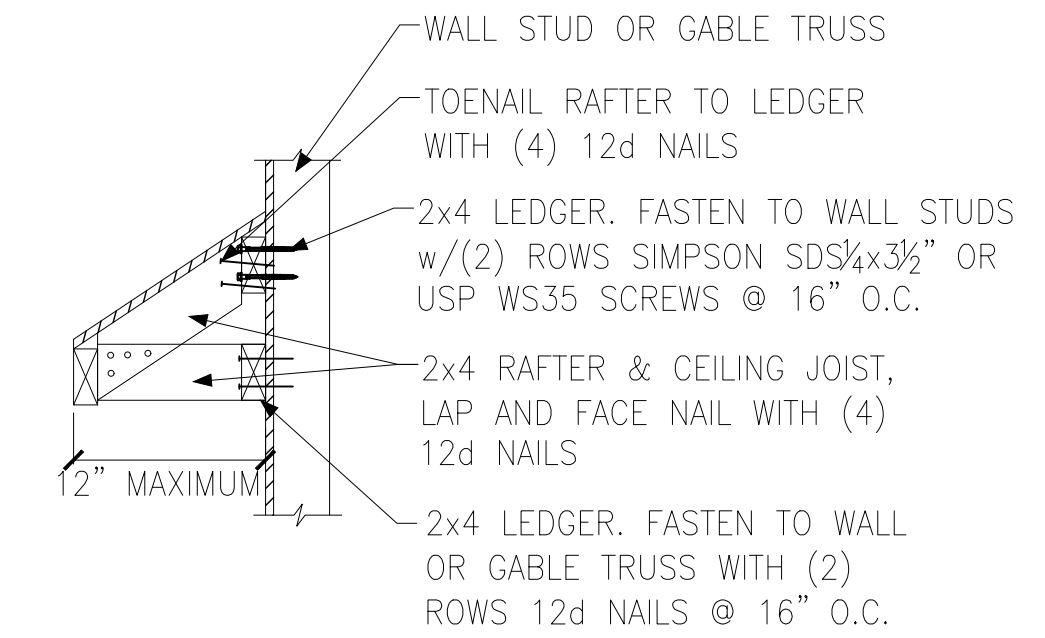
A PENT ROOF DETAIL
CURVED ROOF



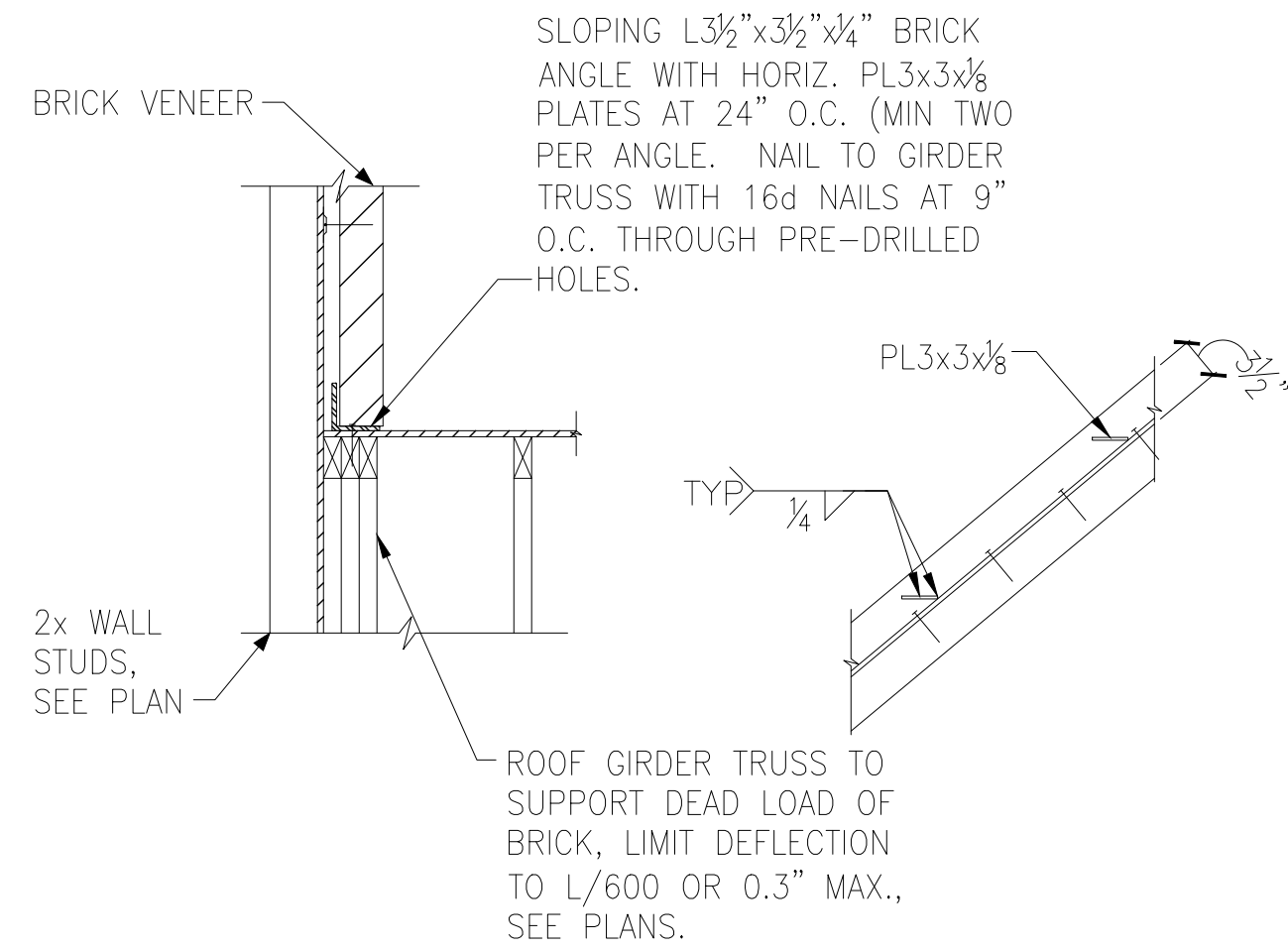
X SECTION
CURVED ROOF



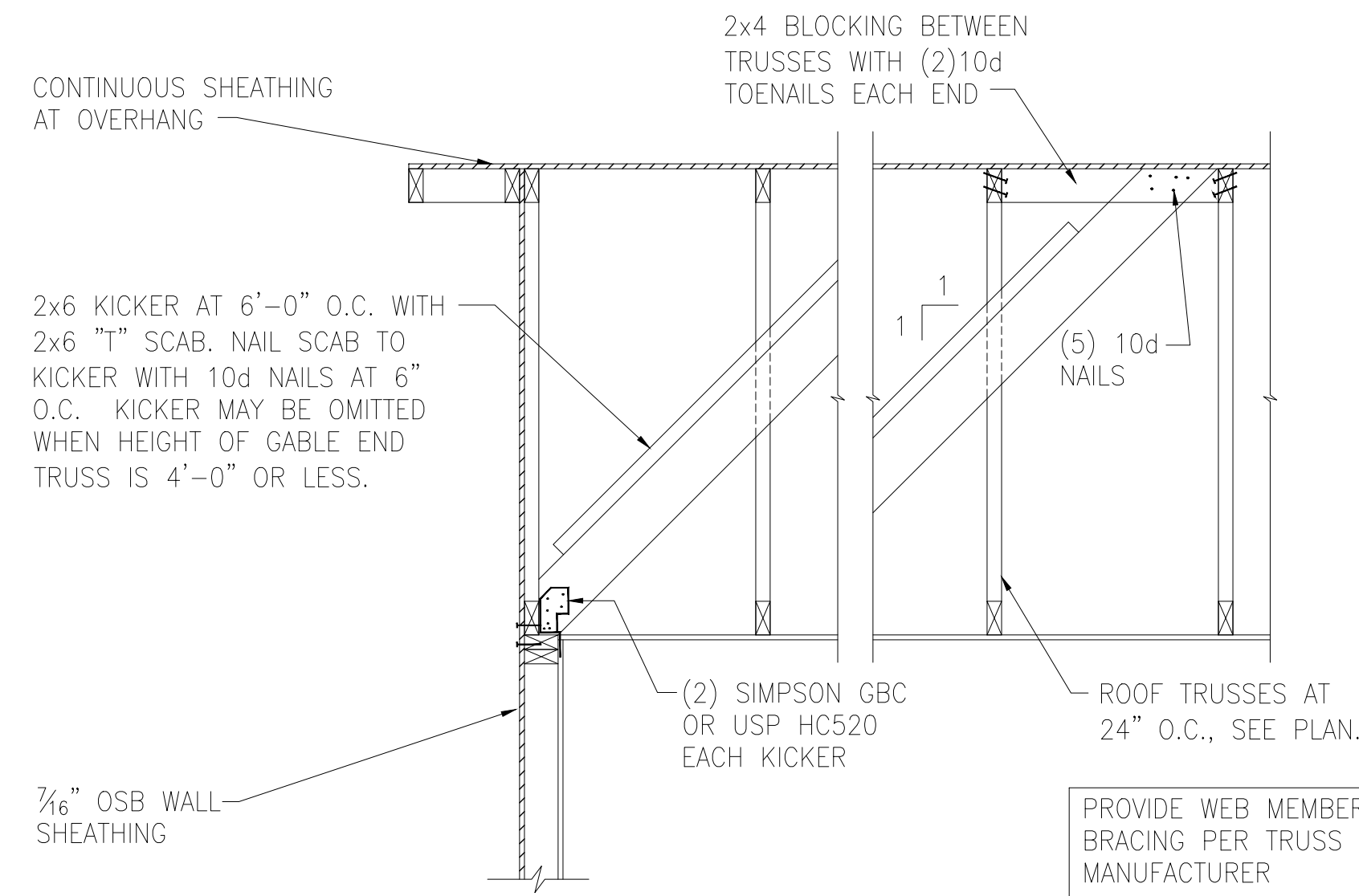
B PENT ROOF DETAIL
STRAIGHT ROOF



C EYEBROW ROOF DETAIL
STRAIGHT ROOF



D TRUSS DETAIL



E GABLE END WALL DETAIL

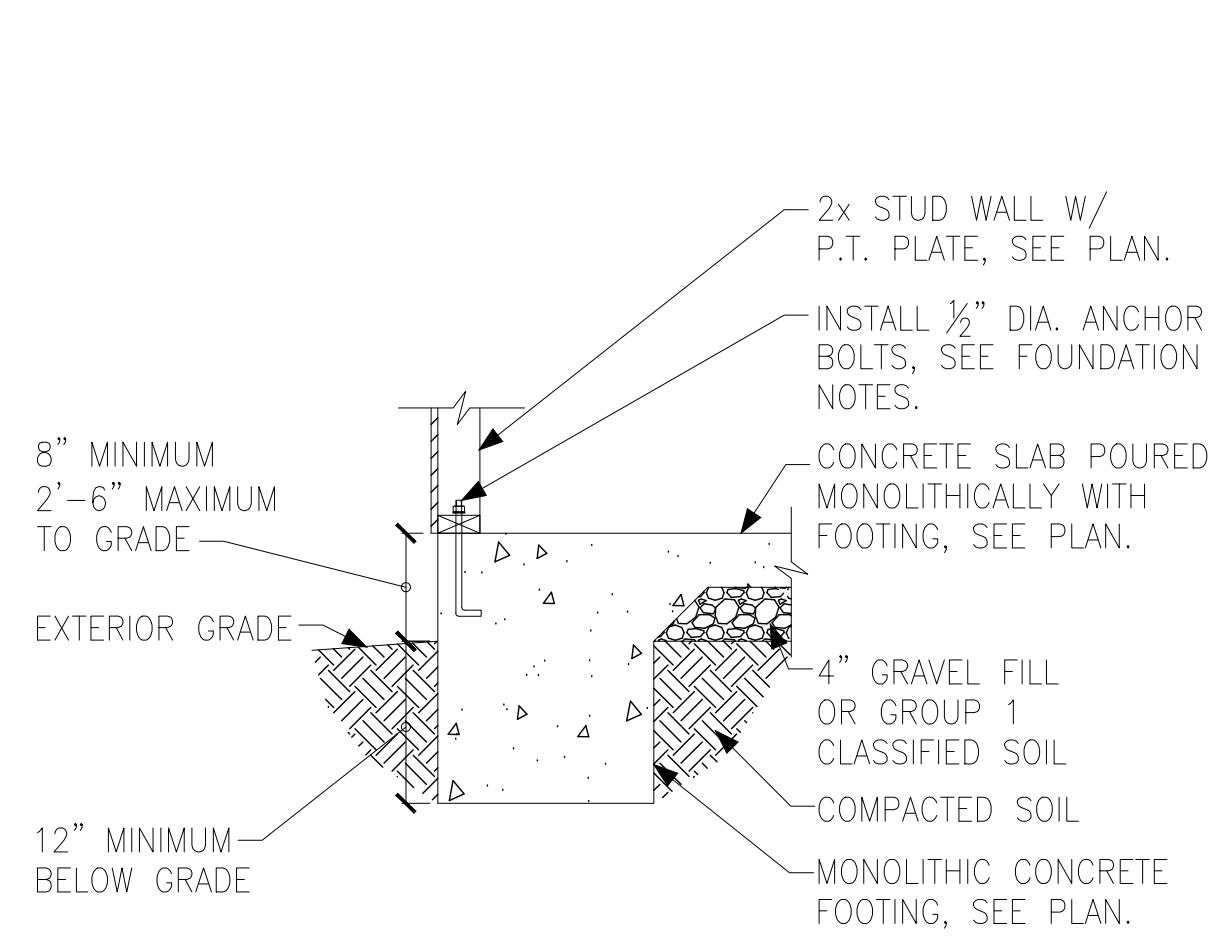


Miscellaneous Framing Details

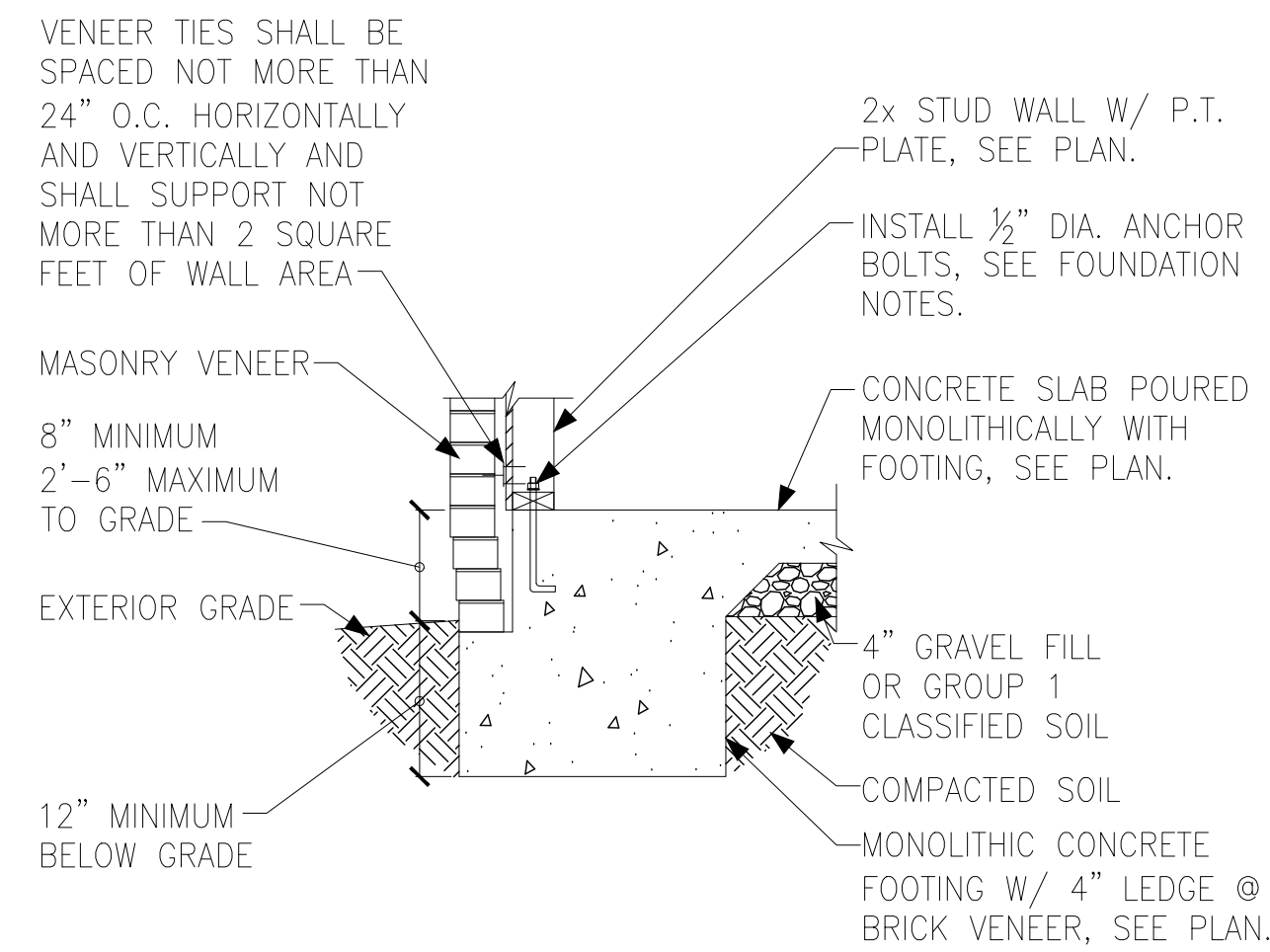
Up to 120 M.P.H.
Raleigh, North Carolina

Project #: 214-22000
Designed By: KRK
Checked By:
Issue Date: 3/6/23
Re-Issue:
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

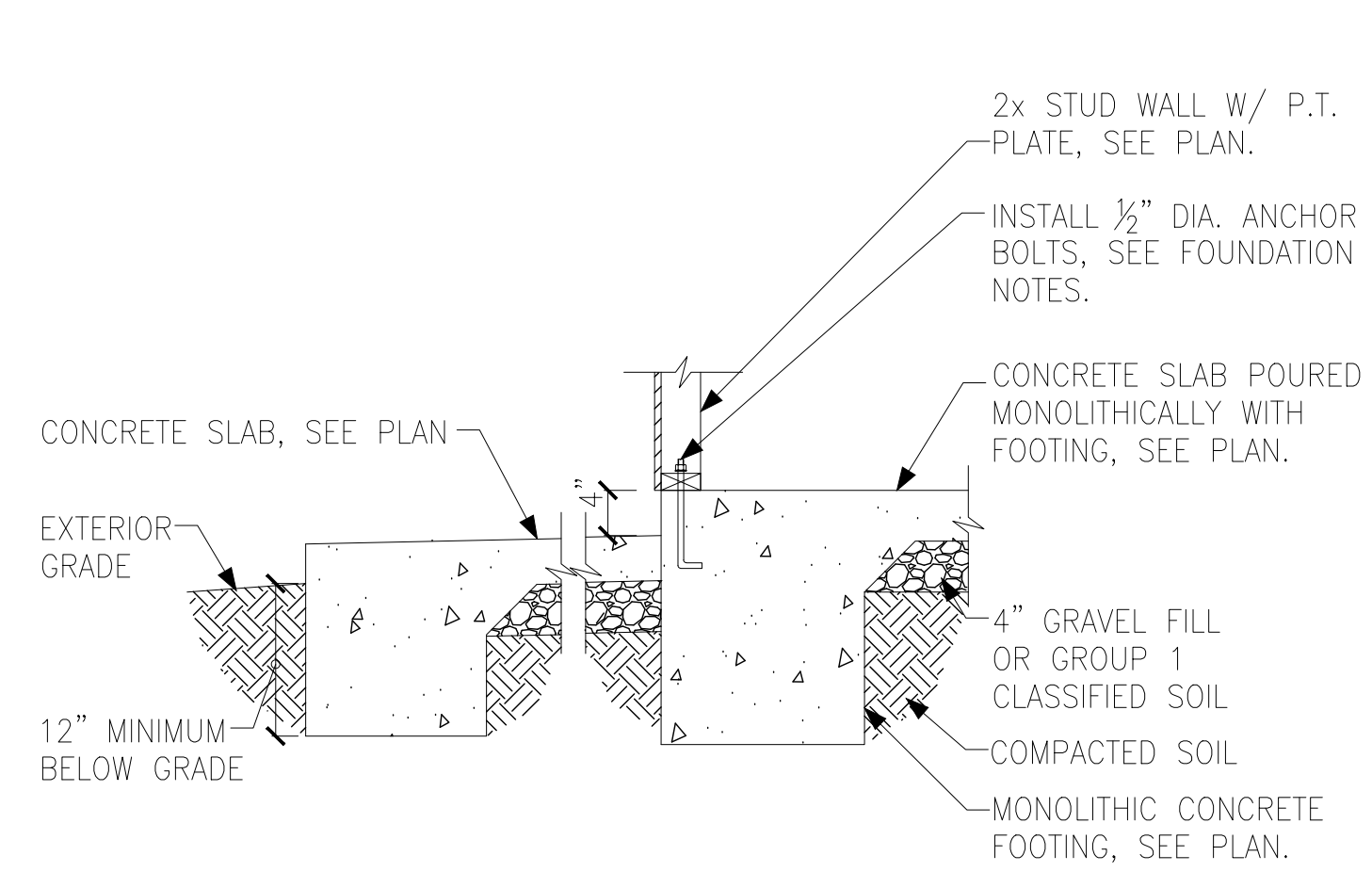




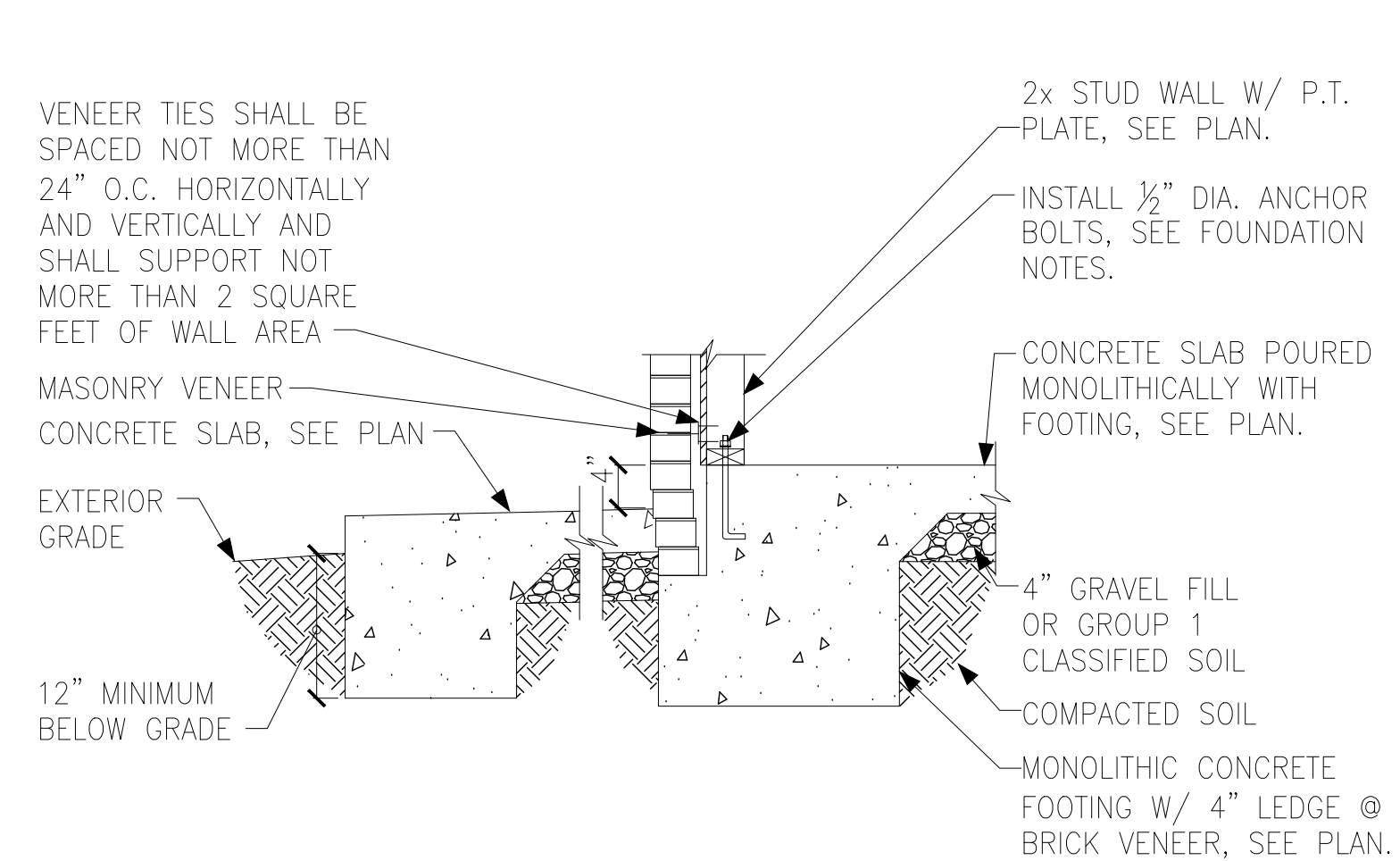
(A) FOUNDATION SECTION
EXTERIOR WALL



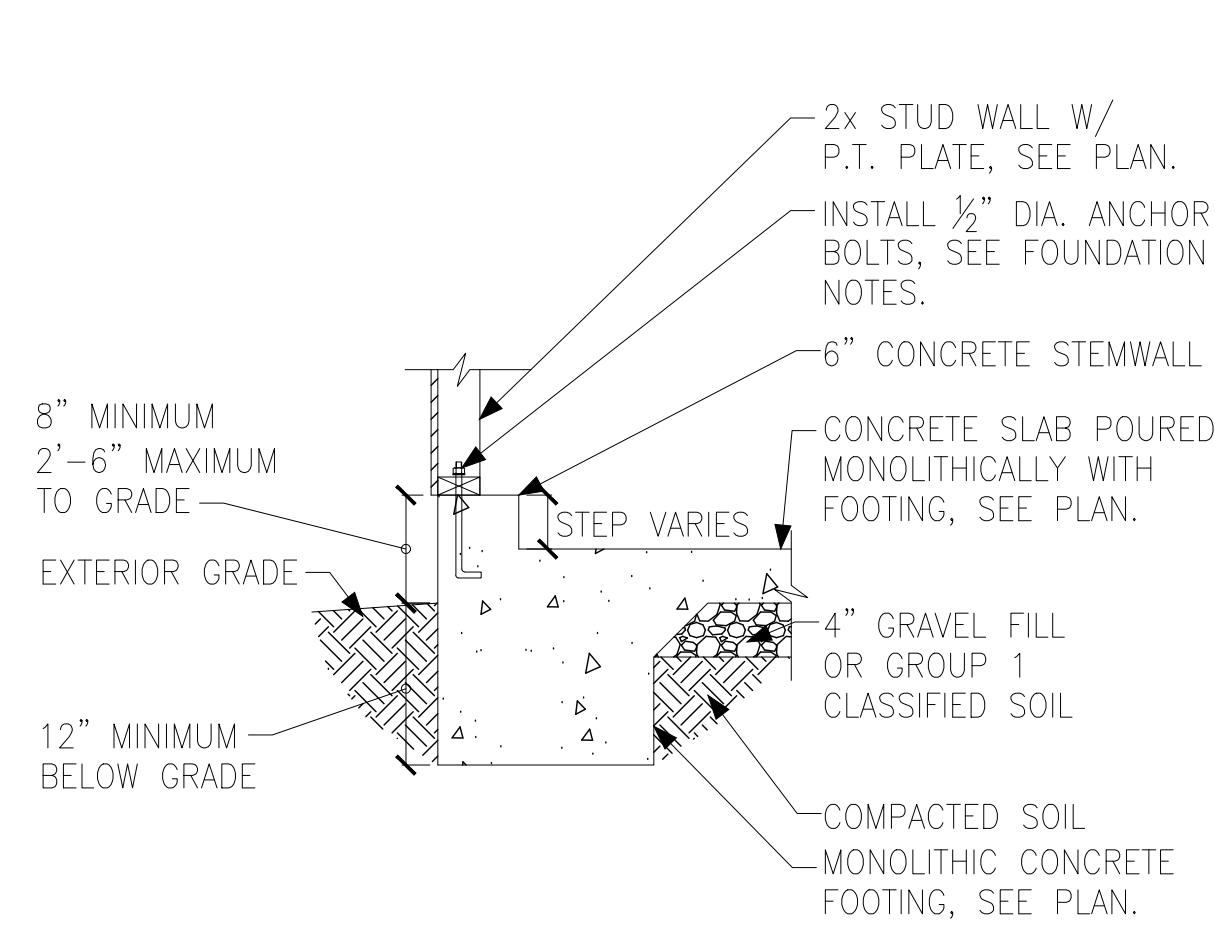
(B) FOUNDATION SECTION
EXTERIOR WALL @ MASONRY VENEER



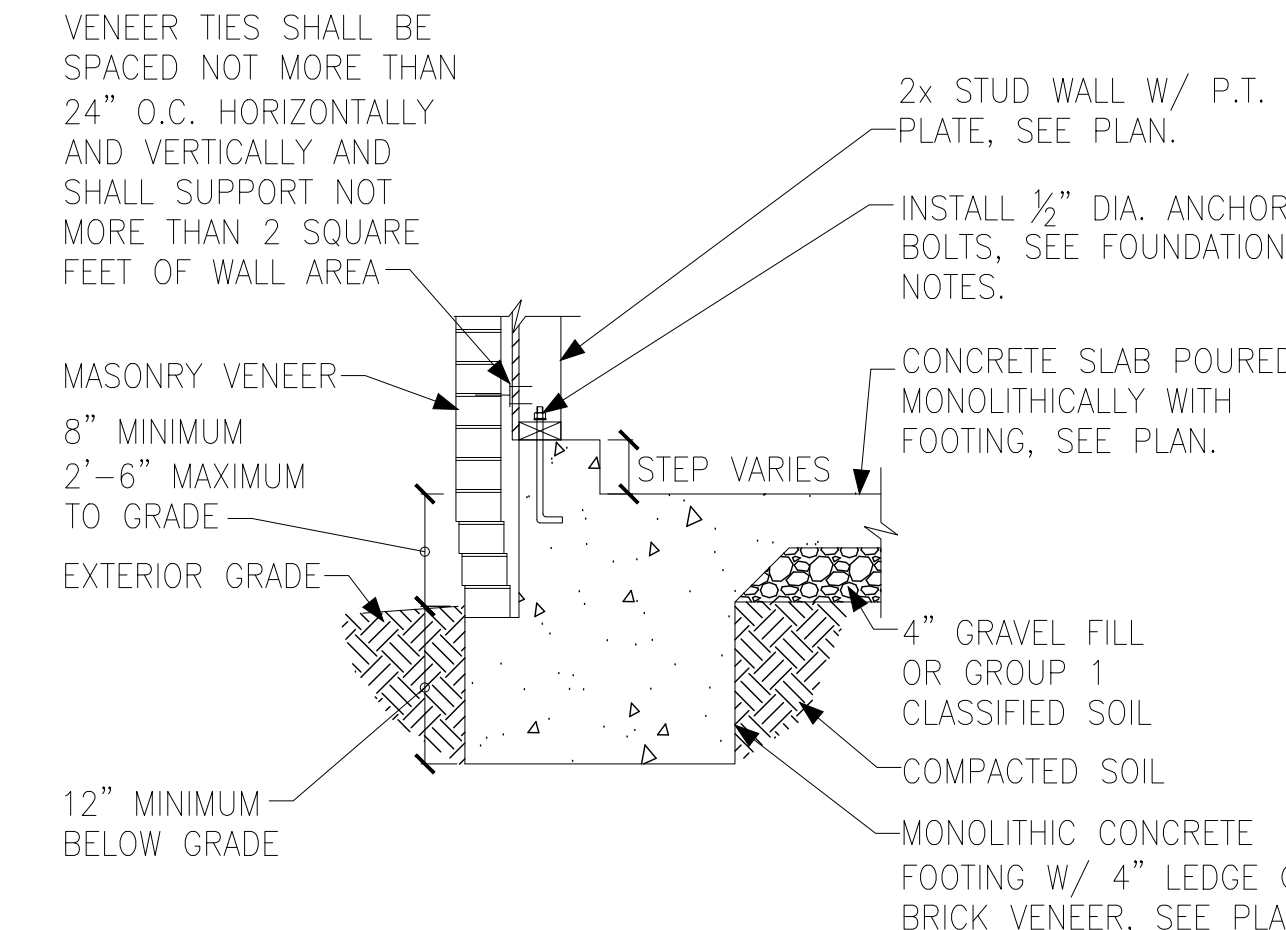
(C) FOUNDATION SECTION
EXTERIOR WALL AT PORCH



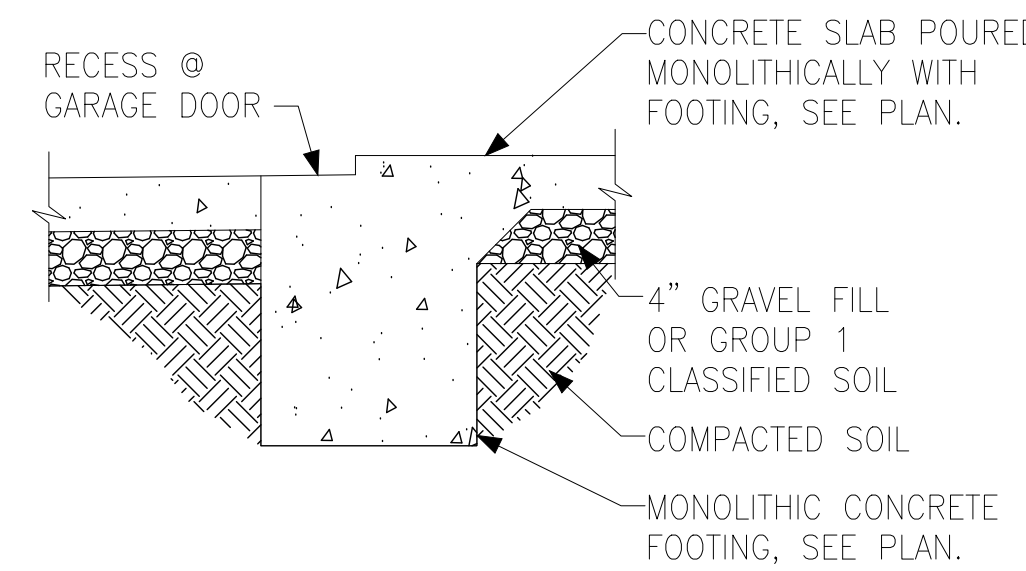
(D) FOUNDATION SECTION
EXTERIOR WALL AT PORCH W/ MASONRY VENEER



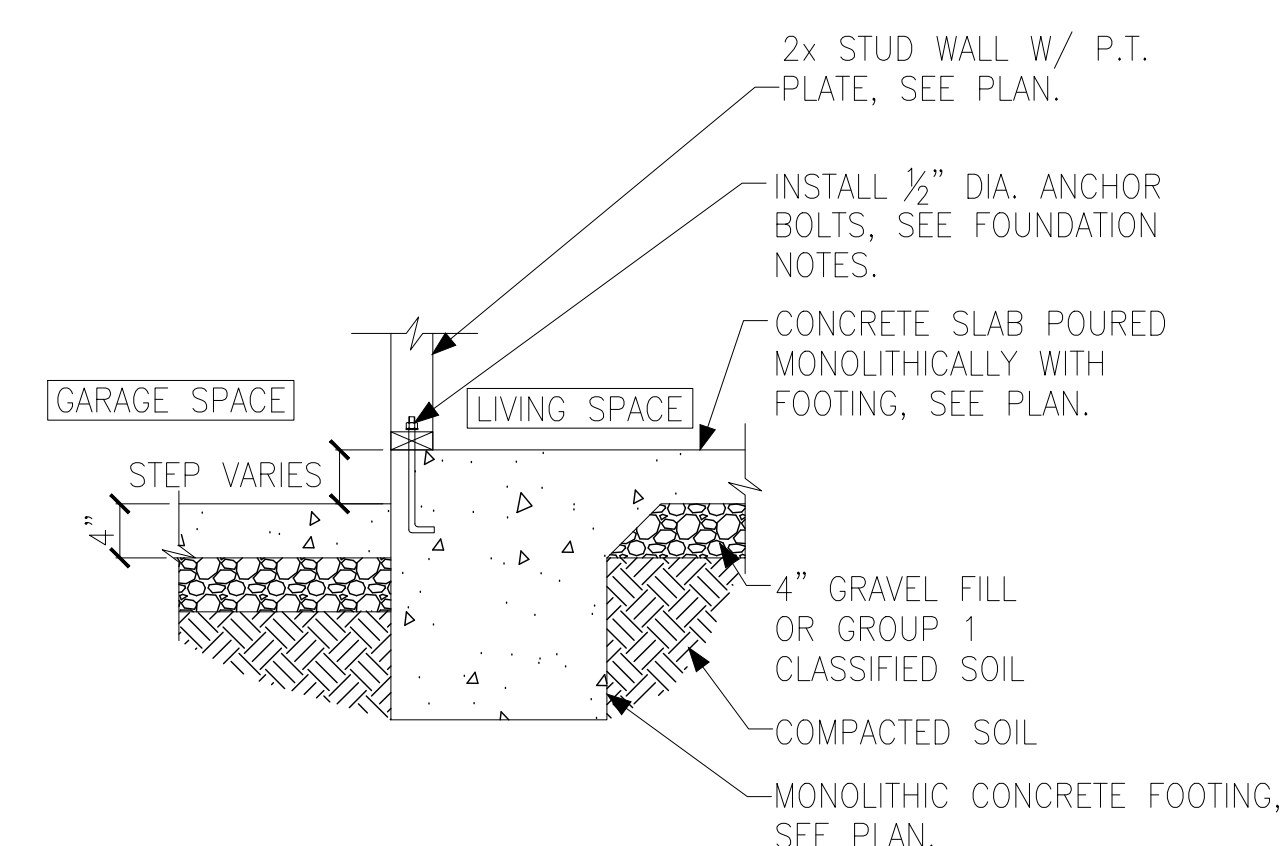
(E) FOUNDATION SECTION
EXTERIOR GARAGE WALL



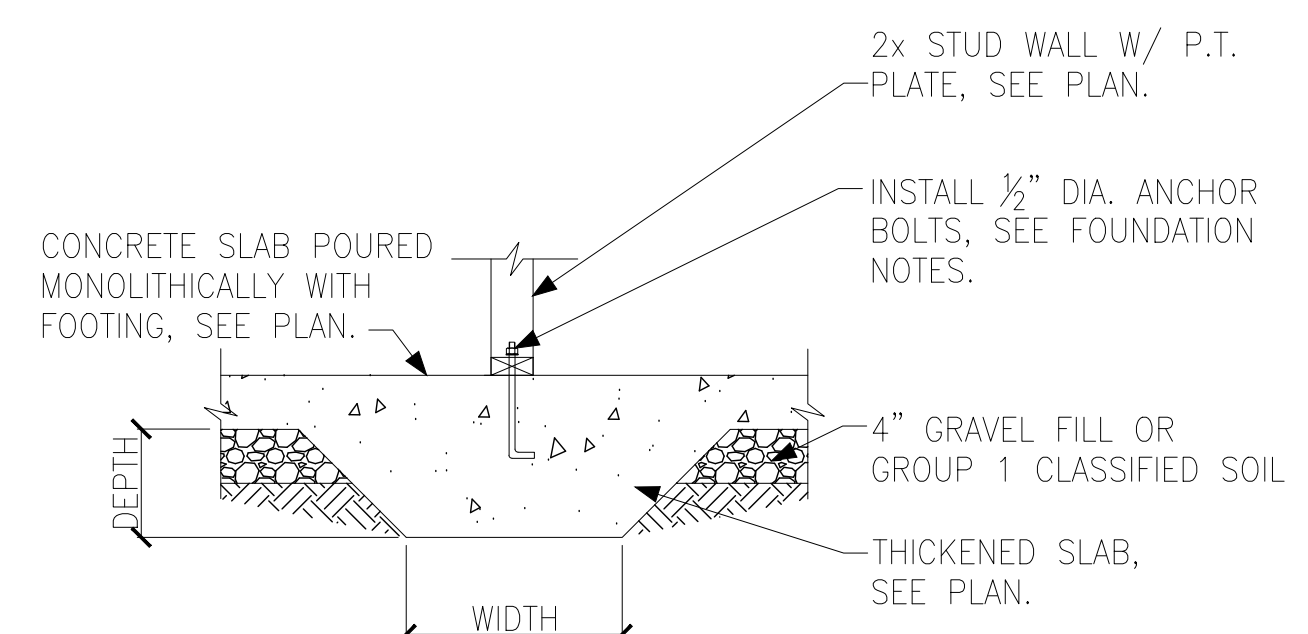
(F) FOUNDATION SECTION
EXTERIOR GARAGE WALL @ MASONRY VENEER



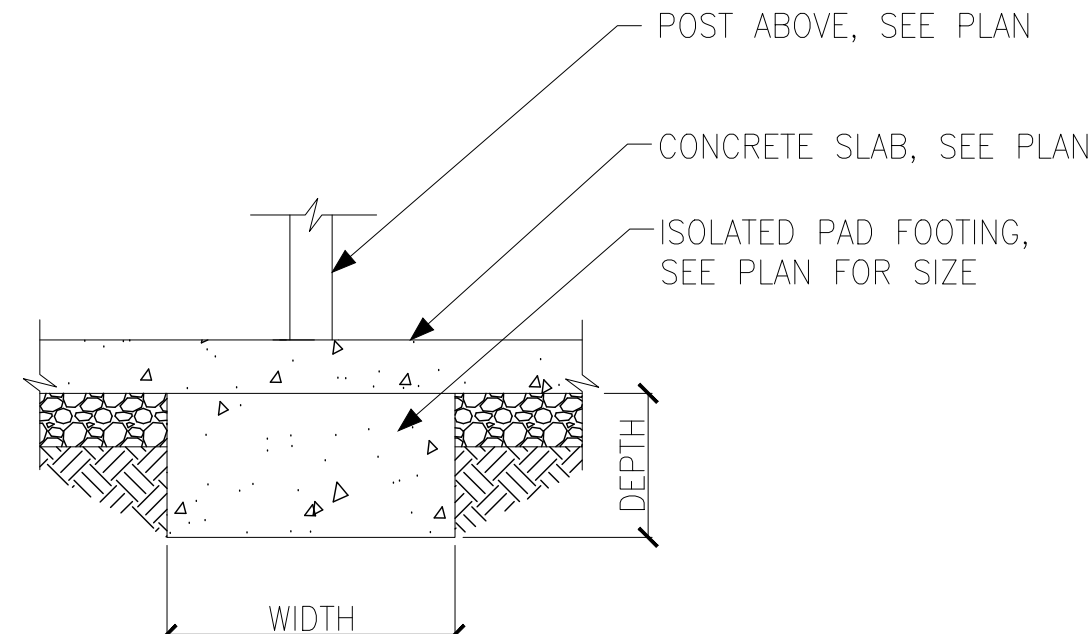
(G) FOUNDATION SECTION
GARAGE DOOR



(H) FOUNDATION SECTION
INTERIOR GARAGE WALL

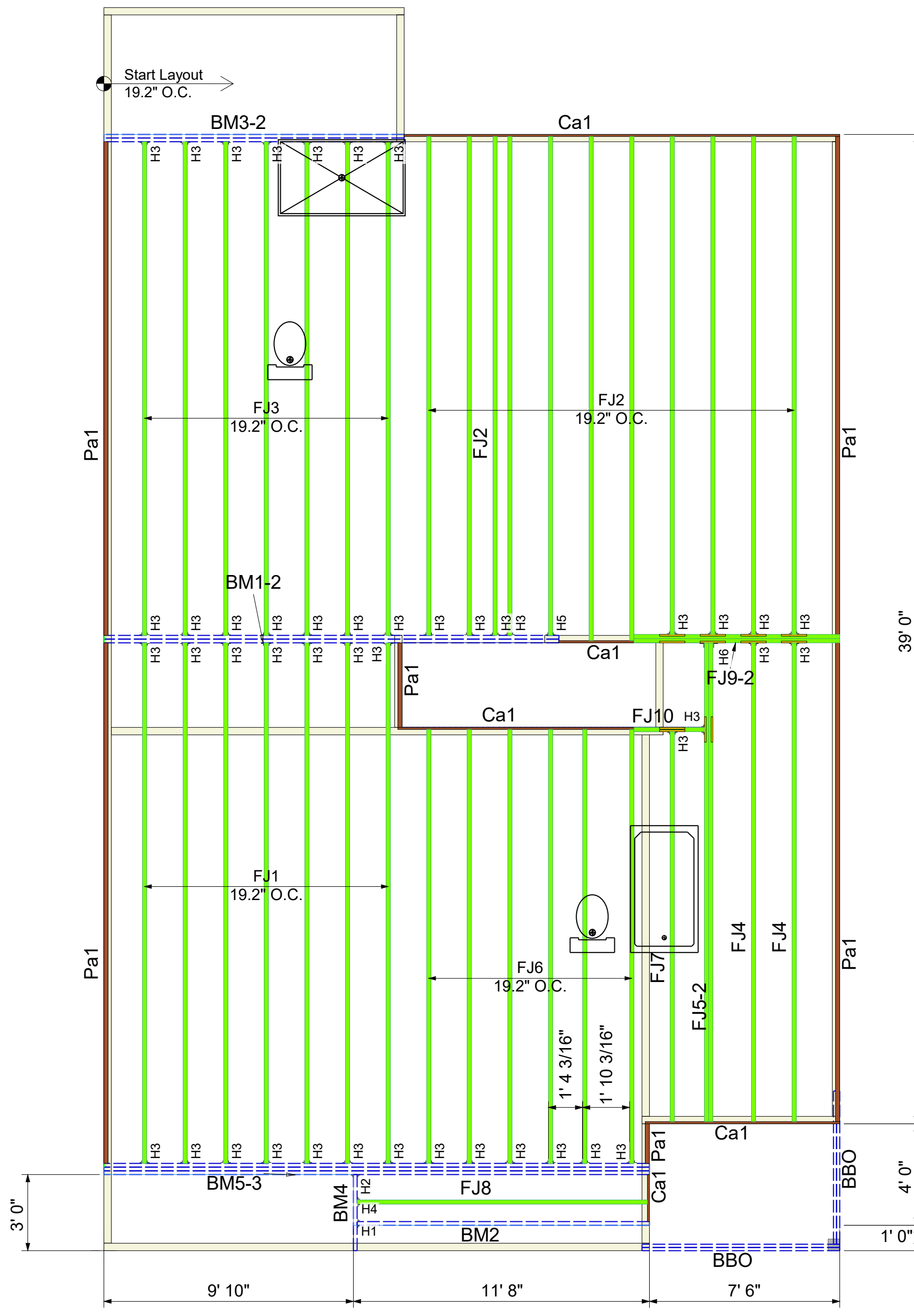
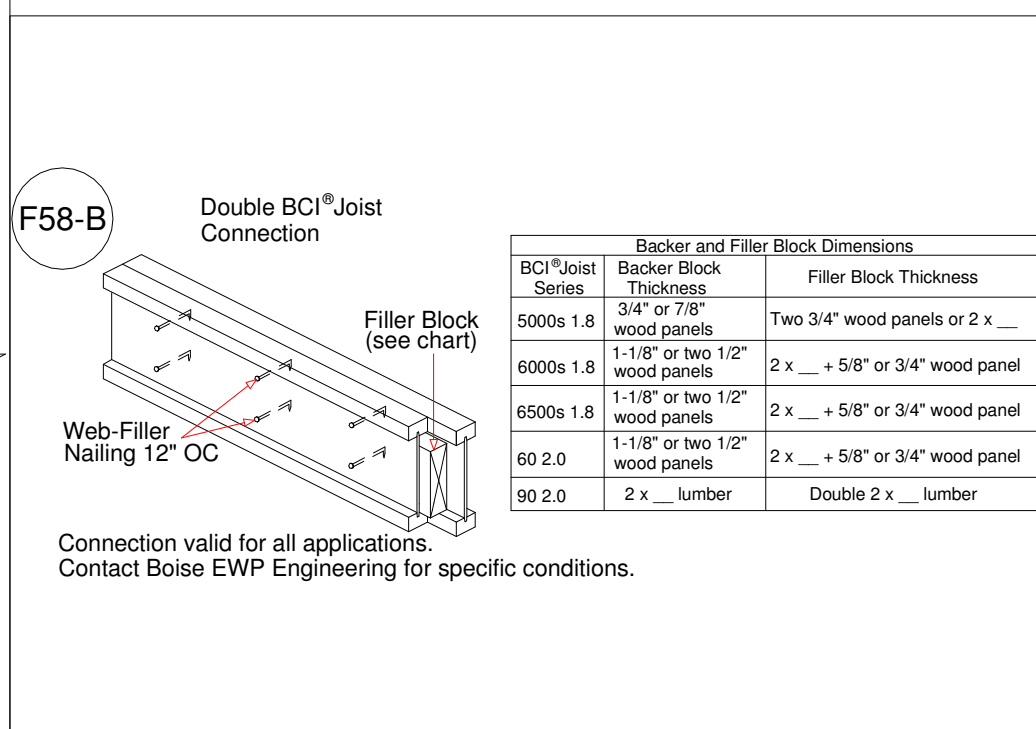
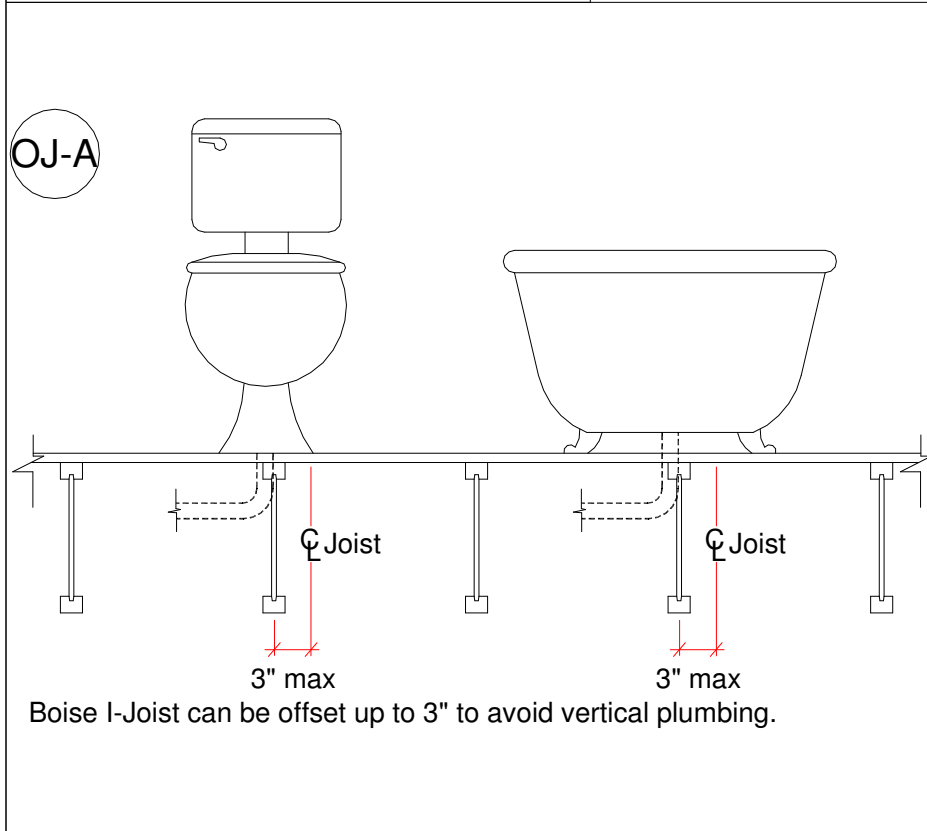
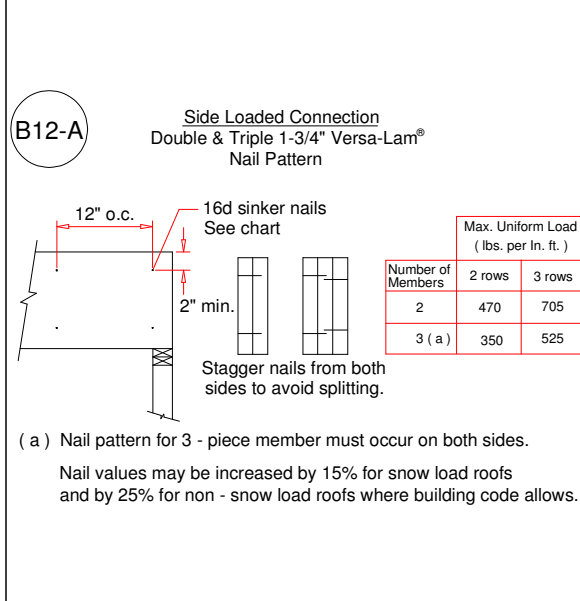
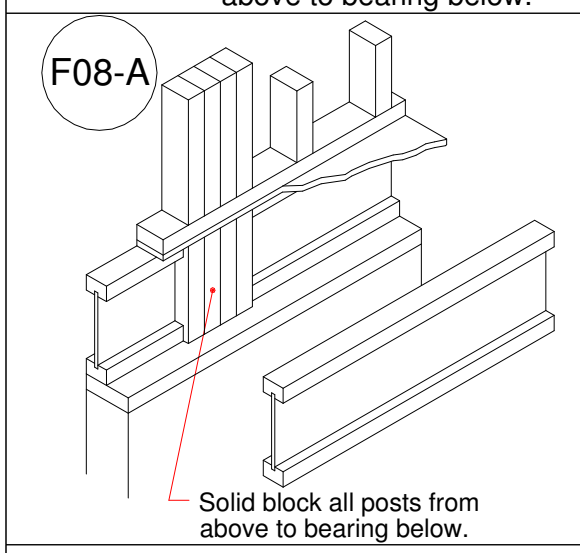
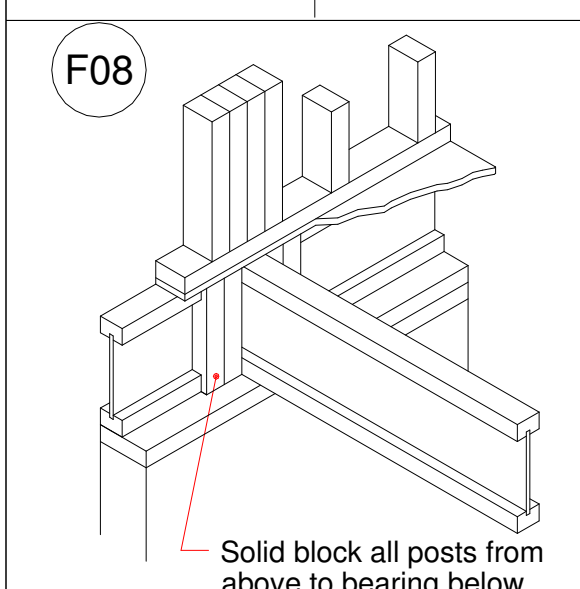
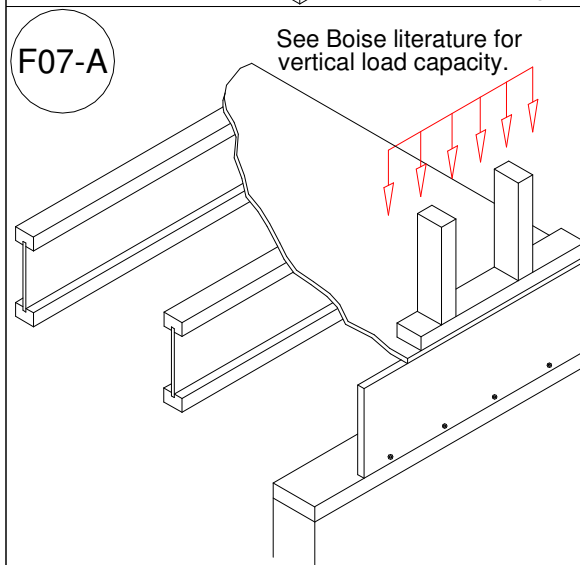
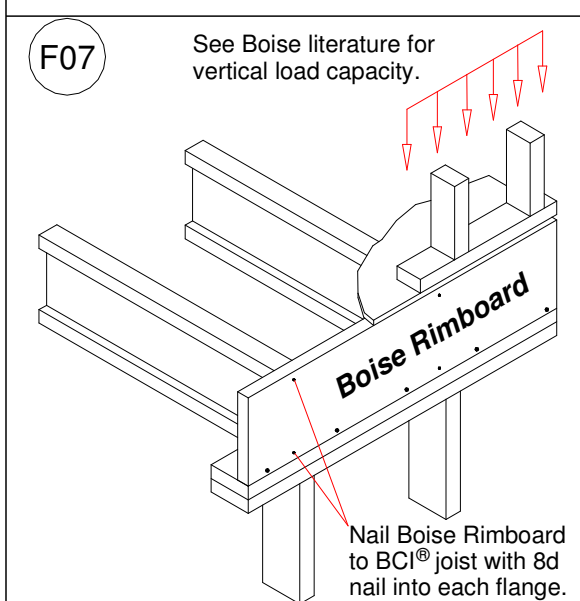
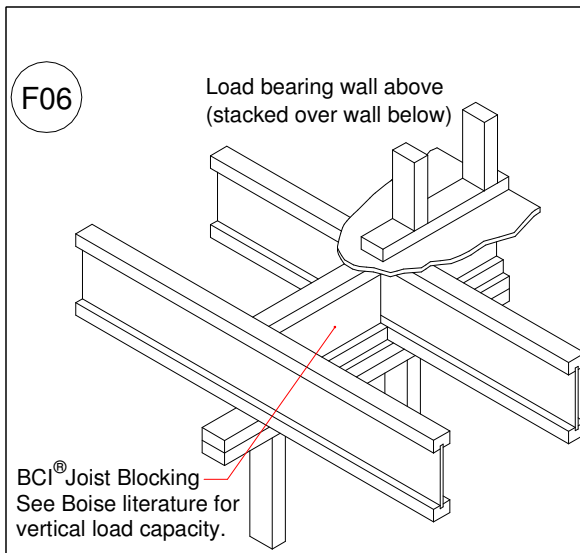


(J) FOUNDATION SECTION
THICKENED SLAB



(K) FOUNDATION SECTION
ISOLATED PAD FOOTING





Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
FJ1	21' 0"	14" BCI® 5000s-1.8	1	7	MFD
FJ2	20' 0"	14" BCI® 5000s-1.8	1	11	MFD
FJ3	19' 6"	14" BCI® 5000s-1.8	1	7	MFD
FJ4	19' 0"	14" BCI® 5000s-1.8	1	2	MFD
FJ5-2	19' 0"	14" BCI® 5000s-1.8	2	2	MFD
FJ6	17' 6"	14" BCI® 5000s-1.8	1	6	MFD
FJ7	15' 6"	14" BCI® 5000s-1.8	1	1	MFD
FJ8	11' 6"	14" BCI® 5000s-1.8	1	1	MFD
FJ9-2	8' 6"	14" BCI® 5000s-1.8	2	2	MFD
FJ10	3' 0"	14" BCI® 5000s-1.8	1	1	MFD
BM1-2	18' 0"	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	2	2	FF
BM2	12' 0"	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	1	1	FF
BM3-2	12' 0"	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	2	2	FF
BM4	4' 0"	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	1	1	FF
BM5-3	22' 0"	1-3/4" x 16" VERSA-LAM® 2.0 3100 SP	3	3	FF
Ca1	12' 0"	1" x 14" BC RIM BOARD	1	4	FF
Pa1	84' 0"	14" BCI® 5000s-1.8	1	1	FF

Connector Summary			
PlotID	Qty	Manuf	Product
H1	1	Simpson	HUS1.81/10
H2	1	Simpson	IUS1.81/14
H3	46	Simpson	IUS2.06/14
H4	1	Simpson	IUS2.06/14
H5	1	Simpson	IUS2.06/14
H6	1	Simpson	MIU4.12/14

Second Floor Layout
Scale: 1/4"=1'-0"

Wellers Knoll Lot 66

SALES PRESENTATION DRAWING
This layout and associated materials list has been prepared based on project plans and/or information provided to BMC by the builder. It remains the responsibility of the builder, architect, engineer of record, or other responsible persons to review this information to assure that it is appropriate, accurate, complete and complies with applicable building codes.

Boise Cascade

Builders
FirstSource

Architectural Drawings Prepared By: 0

Original Plan Date: Enter Original Plan Date

Latest Revision: BFS - Garner

TECHNICAL SUPPORT
Clemmons, NC - (336) 726-2191
Raleigh, NC - (919) 838-2636
Rock Hill, SC - (803) 323-1650
Tucker, GA - (770) 492-1867

Davidson Homes

66 Wellers Knoll

Drawn By: Michael Turgeon (MWT2)

Release Date: 6/3/2024

Job #: 240000516

SIS #

REV.	BY	DATE	COMMENTS
XXX			Original System Layout

Sheet 1 of 1

ROOF TRUSS NOTES:

DO NOT CUT, DRILL, NOTCH, OR OTHERWISE DAMAGE TRUSSES. Contact your BFS Representative for assistance PRIOR TO modifying any truss.

Espanol - (NO CORTE, PERFORE, HAGA MUESCAS O DANE DE CUALQUIER OTRA MANERA LAS TRUSSES (CERCHAS DE MADERA). Contacte a su representante de BFS para asistencia ANTES de realizar cualquier modificación.)

- This Truss Placement Diagram is intended to serve as a guide for truss installation. This Diagram has been prepared by a Truss Technician and is not an engineered drawing.
- The responsibilities of the Owner, Building Designer, Contractor, Truss Designer, and Truss Manufacturer shall be as defined by the TPI 1 National Standard.
- The wood components shown on this diagram are to be used in dry service (moisture content <19%) and non-toxic environmental applications. The metal plates and hangers are galvanized to the G60 Standard unless noted otherwise.
- Refer to the Truss Design Drawings for specific information about each individual truss design.
- The Truss Technician shall provide Truss-to-Truss Connection Requirements. Any special or other connection shall be the responsibility of the Building Designer.
- The Truss Placement Diagram and Truss Design Drawings are the property of Builders FirstSource and may not be reused or reproduced in part or in total under any circumstances without prior written authorization.
- In some cases, field framing may be required to achieve the final appearance shown on the Construction Documents.
- Field framing, including valley rafters, installed over roof trusses shall have a knee brace from the rafter to the truss top chord at intervals of 48" on center (O.C.) or less. Stagger knee braces from adjacent rafters such that the load is distributed uniformly over multiple truss locations and not concentrated at one location or along one truss.
- Truss Top Chords shall be fully sheathed or have lateral bracing (purlins) spaced at 24" O.C. or less. Truss Bottom Chord Bracing shall not exceed the maximum shown on the Truss Design Drawing. Field framed bottom chord floor or ceiling attachments shall be spaced at 24" O.C. or less. Proper Bracing prevents buckling of individual truss members due to design loads.
- This Placement Diagram is based upon the supporting structure being structurally adequate, dimensionally correct, square, plumb, and level to adequately support the trusses. The foundation design, structural member sizing, load transfer, bearing conditions, and the structure's compliance with the applicable building code are the responsibility of the Owner, Building Designer, and Contractor.
- If Piggyback Trusses are included in this project, refer to the Mitek Piggyback Connection Detail applicable for the project details and wind load category.
- The Contractor shall follow the SBCE TTB Partition Separation Prevention and Solutions for truss attachment to non-load bearing walls and carefully complete these details to avoid gypsum wall board related issues.

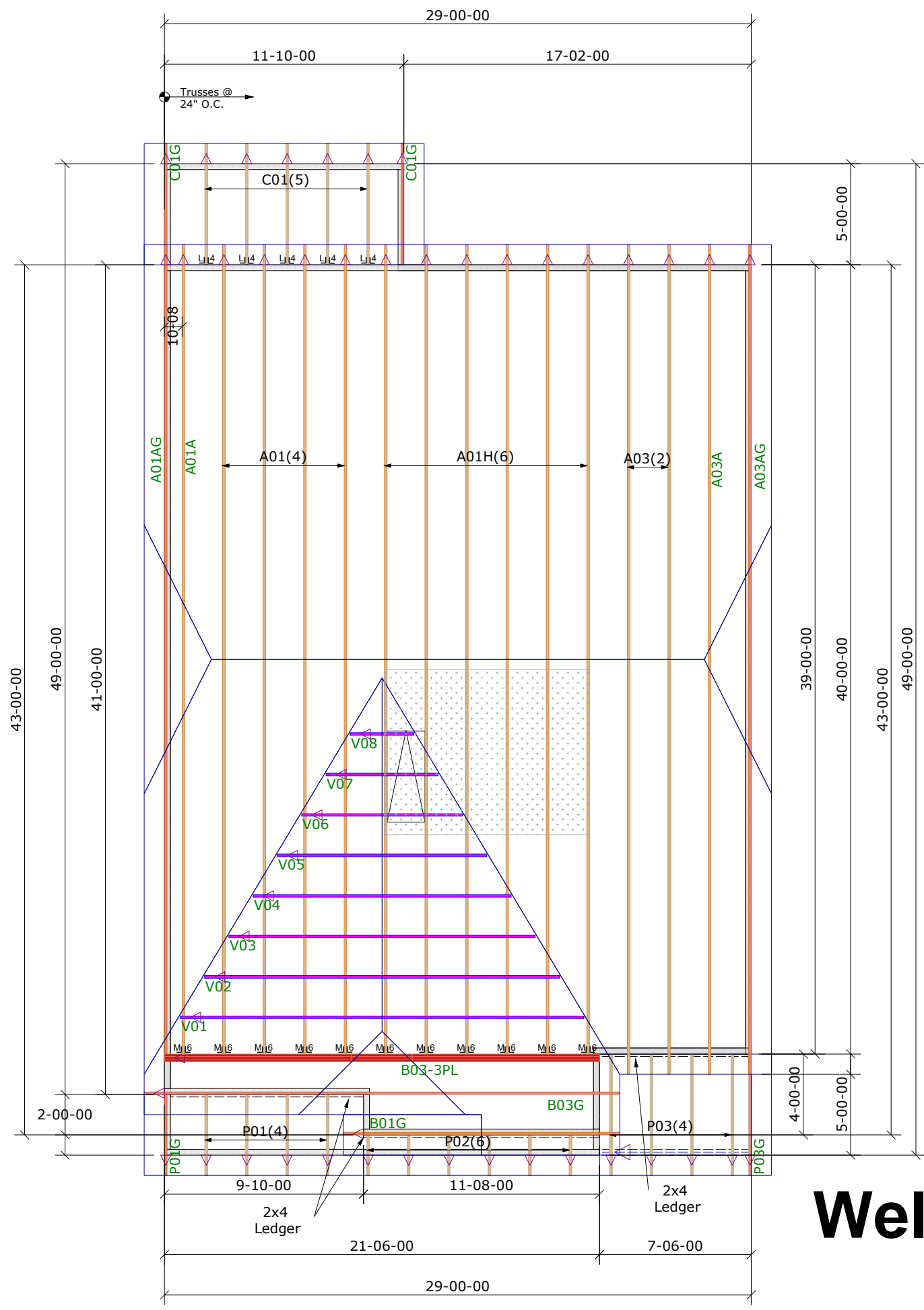
WARNING:

TRUSSES MUST BE BRACED DURING INSTALLATION. FAILURE TO DO SO MAY RESULT IN INJURY OR DEATH.


Espanol - (TRUSSES (CERCHAS) DEBERAN TENER UN SOPORTE DURANTE LA INSTALACION. NO HACERLO PODRIA RESULTAR EN LESIONES O MUERTE.)

- Trusses shall be installed in a safe manner meeting all code, local, OSHA, TPI, and BCSI Specifications. Failure to follow these specifications may result in injury or death.
- Buildings under construction are vulnerable to high winds and present a possible safety hazard. The Contractor is responsible for recognizing adverse weather conditions and shall take appropriate action to prevent injury or death.
- BCSI INSTRUCTIONS SHALL BE FOLLOWED:**
 BCSI-B1 = Safe Truss Handling and Installation
 BCSI-B2 = Installation and Temporary Restraint
 BCSI-B3 = Permanent Restraint
 BCSI-B4 = Safe Construction Loading
 BCSI-B5 = Truss Damage and Modification Guidelines
 BCSI-B7 = Floor Truss Installation
 BCSI-B8 = Toe-Nailed Connections
 BCSI-B9 = Multi-Ply Girders
 BCSI-B10 = Post Frame Truss Installation
 BCSI-B11 = Fall Protection
- Follow TPI Requirements for Long Span Trusses (>60').

**TOTAL ROOF AREA
1797.43 SQ FT**



**Wellers Knoll
Lot 66**



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


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

△ ◁ ▷ ▽ LEFT END OF TRUSS AS SHOWN ON TRUSS DETAIL DRAWINGS ARE INDICATED BY TRIANGLE ICONS.



HANGER LIST		ALL TIE DOWNS H2.5A UNLESS NOTED	
11	HTU26	M	16
5	LUS24	L	14

SPECIAL ITEMS LIST	
MISC MATERIAL	

DAVIDSON HOMES

THE GRACE	ELEV:	C
Wellers Knoll		
---	NC	LOT: 66

APPWRIGHT #	
4059433	
• [BASE]	CODE: IRC 2015
• [OPTION 2]	LOADING:
• [OPTION 3]	T.C.L.L. 20 PSF

DESIGNED BY:	Y.G.	T.C.D.L.	10 PSF
LAYOUT:	C RF	B.C.L.L.	0 PSF
D/O DATE:	6/10/2024	B.C.D.L.	10 PSF

REVISION HISTORY		WIND:	
REV1:	XX/XX/XX	M.P.H.	115 MPH
REV2:	XX/XX/XX	EXPOSURE CATEGORY	
REV3:	XX/XX/XX	B (WOODED AREAS/OTHERS)	

PICK TICKET:	---	JOB NO:	---
SALES NO:	---	ACCT NO:	---

HATCH LEGEND	
	ATTIC ROOM
	VOLUME CEILING
	STICK FRAMING