OPT. TOTAL AREA UNDER ROOF: ± 3,382.67 SQ FT

**SHEET INDEX** 

A0 COVER SHEET

P1 PLUMBING FIXTURE FLOOR PLANS

1 FLOOR PLANS

A1.1 DIMENSIONED MAIN FLOOR PLAN

A1.2 DIMENSIONED UPPER FLOOR PLAN

A1.3 ROOF PLAN

A2 ALL EXTERNAL ELEVATIONS
A3 CONSTRUCTION BUILDING SECTIONS & DETAILS

A4 WINDOW & DOOR SCHEDULES

FR.8 FRAMED KITCHEN ISLAND DESIGN OPTIONS
AD.3 FIREPLACE SELECTION OPTIONS

AD.8 EXTERNAL GARAGE TRELLIS, CORBELS, BRACKETS

E1 ELECTRICAL MAIN FLOOR PLAN

2 ELECTRICAL / TRUSS MAIN FLOOR OVERLAY

## **OPTIONS**

House Plan	Development	Lot #	Address	Garage Side	Total HSF	Total Under Roof
Humber	Oakmont	350	310 Travelers Way	Left	2383.47	3142.67

EXTERIOR:

X	Elevation STD or A			
	Elevation B			
	Elevation C			
	Cement Siding			
X	Vinyl Siding			
	Lap siding only			
X	SHAKES			
	Trellis			
	Shutters			
	3 Car Garage			
	Side Load			
	Garage Window Panels			
	Garage door from double car to single car garage			
	Garage Door to Back Yard			
	Covered Back Porch			
	Extended Porch			
	Side Lite			
	Stone Skirt			
X	Stem			
	Crawl			

INTERIOR:

	Temporal of amountainment and the control of the co
	Extra windows in living room
	Optional Kitchen Layout
	1st Floor Guest Suite
	1st Floor Flex Room
Х	Standard Electric Fireplace
	Gas Fireplace
	Shiplap Electric Fireplace
	Shiplap Gas Fireplace
	Bookshelves
	Under Cab Lighting
	Bonus Room
	2nd Vanity in Secondary bathroom
	Linen Room Door (Argyle Owner Suite Only)
	Open Railing
	Attic Stairs
	Laundry Sink

**ELECTRICAL:** 

Under Cab Lights
Second Vanity - Upstairs bathroom

# The Humber Model Garage LEFT

STANDARD NOVEMBER 15th, 2023





ORIGINAL SKETCH REAR ELEVATIONS

REVISI

J.S.THOMPSON
ENGINEERING, INC.

333 E. SIX FORKS RD., SUITE 180
RALEIGH, NC 27609
PHONE: (919) 789-9919
FAX: (919) 789-9921
N.C. LICENSE NO.: C-1733



THE HUMBER
COVER SHEET

DATE: 2023-111-15
DRAWN BY: MD
ENGINEER: JST
CHECKED BY: NS
Q.C. BY: NS
SCALE: 1/4" = 1'-0"
SHEET NUMBER#:

J.s.Thompson

333 E. SIX FORKS RD.,SUITE 180

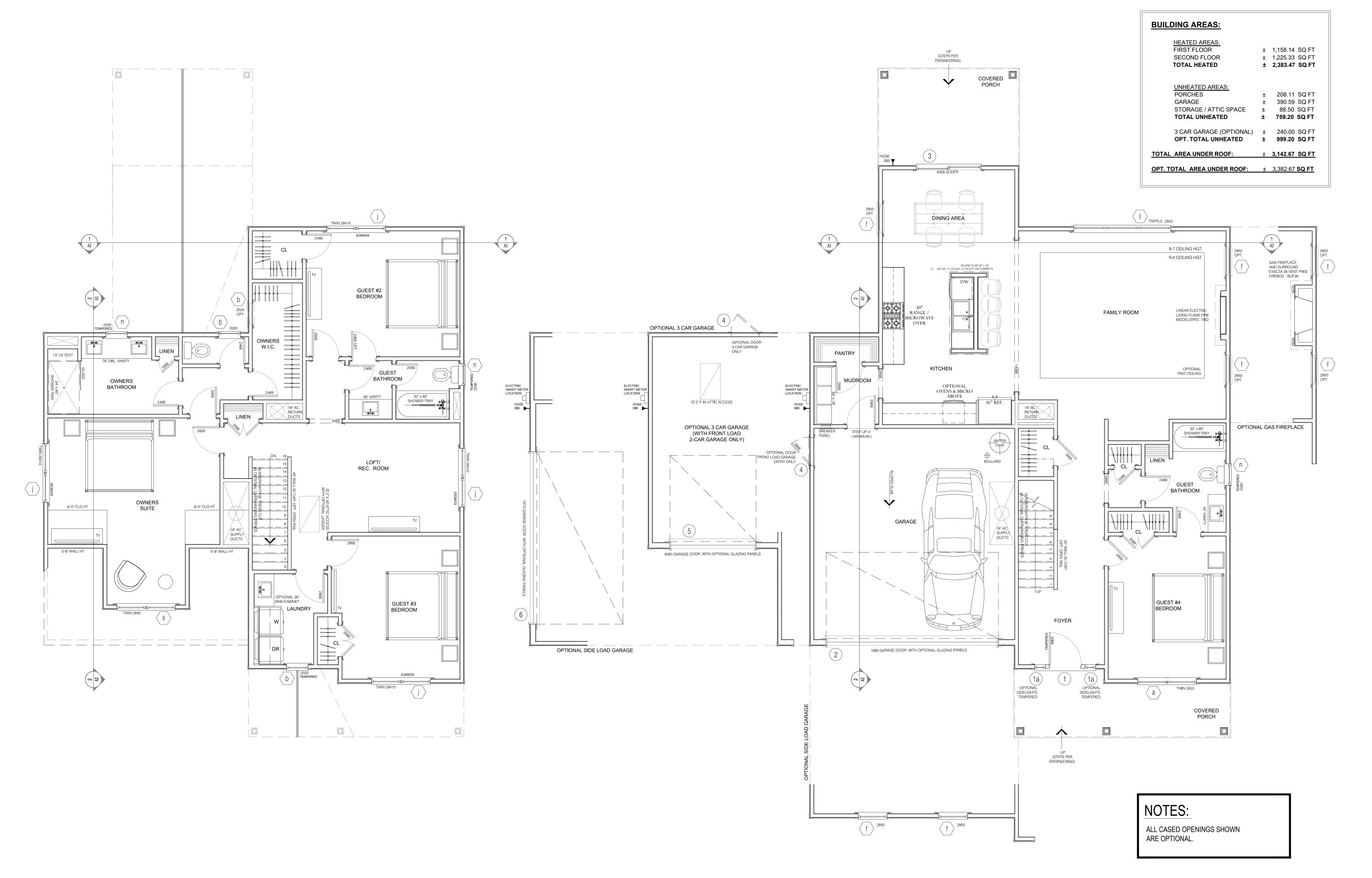
RALEIGH, NC 27609

PHONE: (919) 789-9919

FAX: (919) 789-9921

N.C. LICENSE NO.: C-1733

PLUMBING FIXTURE FLOOR PLANS THE HUMBER



J.S.THOMPSON

ENGINEERING, IN

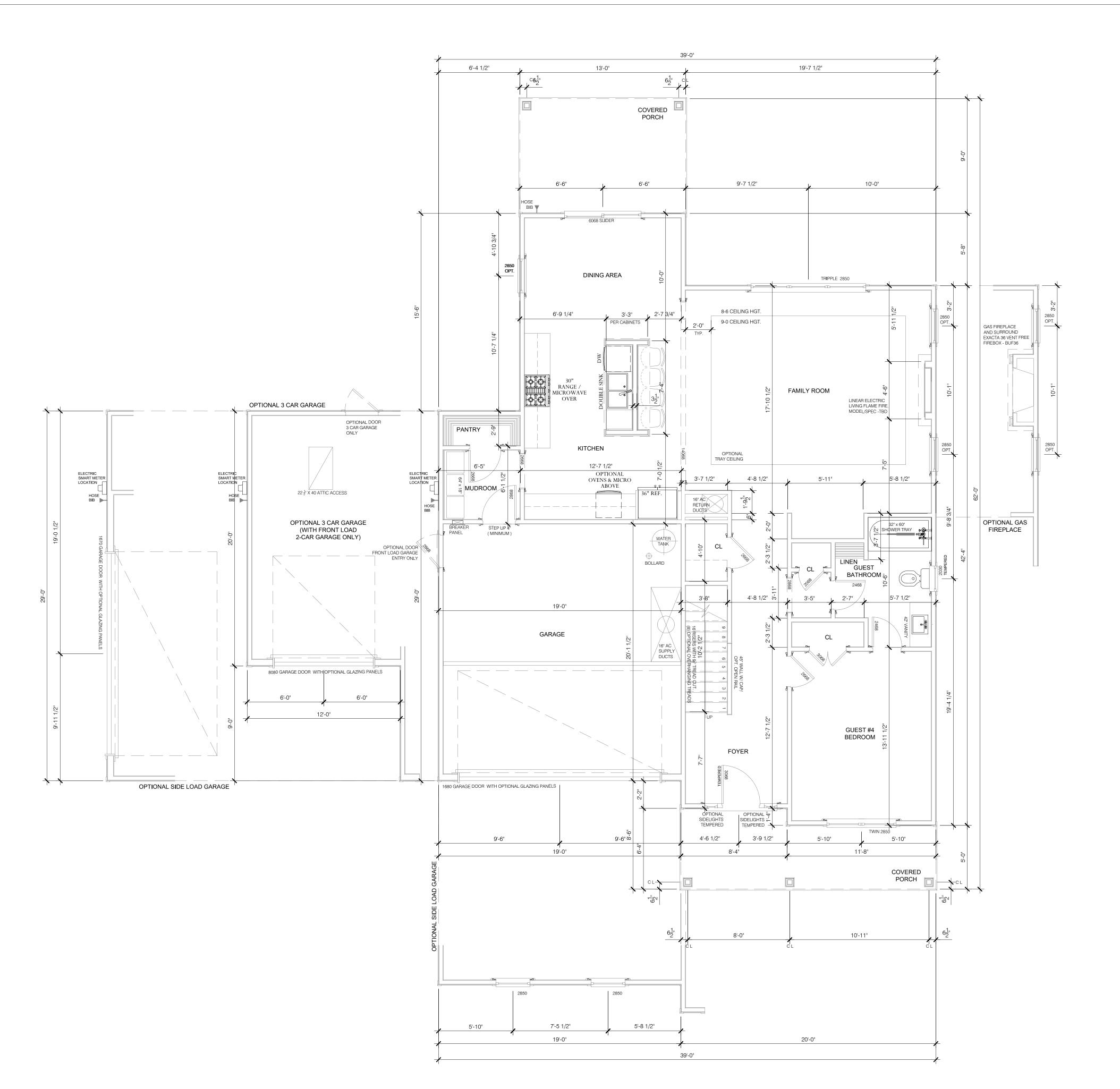
333 E. SIX FORKS RD.,SUITE 180 RALEIGH, NC 27609 PHONE: (919) 789-9919 FAX: (919) 789-9921 N.C. LICENSE NO.: C-1733

THE HUMBER

FLOOR

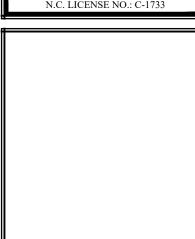
THE HUMBER
DIMENSIONED
MAIN FLOOR PLAN

PRAWN BY: MD
INGINEER: JST
CHECKED BY: NS
C. BY: NS
CALE: 1/4" = 1'-0"



NOTES:

ALL CASED OPENINGS SHOWN ARE OPTIONAL.





NOTES:

19'-7 1/2"

GUEST #2 BEDROOM

LOFT/ REC. ROOM

> GUEST #3 BEDROOM

> > 11'-7 1/2"

11'-8"

5'-10"

TWIN 28410

6'-8"

OWNERS BATHROOM

8'-0" CLG HT

16'-4 1/2"

OWNERS SUITE

TWIN 2840

4'-0"

19'-0"

4'-0"

16" AC SUPPLY DUCTS

4'-6 1/2"

39'-0"

3'-9 1/2"

20'-0"

ALL CASED OPENINGS SHOWN ARE OPTIONAL.

UPPER FLOOR PLAN
SCALE: 1/4" = 1'-0"

AS S (910) 688-7:

THE HUMBER
DIMENSIONED
UPPER FLOOR PLAN

HECKED BY: NS
.C. BY: NS
CALE: 1/4" = 1'-0"
HEET NUMBER#:

J.s.Thompson

ENGINEERING, INC

333 E. SIX FORKS RD., SUITE 180

RALEIGH, NC 27609 PHONE: (919) 789-9919 FAX: (919) 789-9921 N.C. LICENSE NO.: C-1733





RIGHT SIDE ELEVATION

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





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

LEFT SIDE ELEVATION SCALE: 1/8" = 1'-0"

DETAIL A SCALE: 3/4" = 1'-0" AFFE + 29'-9" - TOP OF RIDGE PER TRUSS DESIGN AFFE + 29'-9" - TOP OF RIDGE PER TRUSS DESIGN +18'-5" - UNDERSIDE OF FLOOR TRUSSES / TOP OF PLATE +18'-5" - UNDERSIDE OF FLOOR TRUSSES AFFE 6'-11" 2ND FLOOR WINDOW HEAD AFFE 6'-11" 2ND FLOOR WINDOW HEAD \_\_\_\_DETAIL A OWNERS BATHROOM OWNERS SUITE FFE +10'-3 3" 1ST FLOOR LEVEL FFE +10'-3  $\frac{3}{4}$ " 1ST FLOOR LEVEL FFE 9'-1  $\frac{1}{8}$ " UNDERSIDE OF FLOOR TRUSSES 14" FLOOR TRUSSES - LOCATIONS PER TRUSS LAYOUT FFE 9'-1  $\frac{1}{8}$ " UNDERSIDE OF FLOOR TRUSSES AFFE 6'-11" MAIN FLOOR WINDOW HEAD GARAGE DOOR HEAD - 8'-0" ABOVE SLAB AT DOOR RECESS FFE 0'-0" MAIN FLOOR LEVEL MUDROOM GARAGE FFE -0'-4" GARAGE SLAB LEVEL FFE -0'-4" PORCH FLOOR LEVEL MONO SLAB / FOUNDATION FOOTER DETAILS (IF REQUIRED) ARE PER ENGINEER DETAILS

AFFE + 29'-9" - TOP OF RIDGE PER TRUSS DESIGN AFFE + 29'-9" - TOP OF RIDGE PER TRUSS DESIGN 22 ½" X 40 ATTIC ACCESS WITH OPTIONAL LADDER 8' X 8' PLATFORM PER TRUSS PLAN +18'-5" - UNDERSIDE OF FLOOR TRUSSES
/ TOP OF PLATE +18'-5" - UNDERSIDE OF FLOOR TRUSSES / TOP OF PLATE AFFE 6'-11" 2ND FLOOR WINDOW HEAD AFFE 6'-11" 2ND FLOOR WINDOW HEAD GUEST #2 BEDROOM FFE +10'-3 3/4" 1ST FLOOR LEVEL FFE +10'-3 $\frac{3}{4}$ " 1ST FLOOR LEVEL FFE 9'-1  $\frac{1}{8}$ " UNDERSIDE OF FLOOR TRUSSES 14" FLOOR TRUSSES - LOCATIONS PER TRUSS LAYOUT FFE 9'-1 1 UNDERSIDE OF FLOOR TRUSSES 2'-0" FRAME DOWN IN TRUSSES AFFE 6'-11" MAIN FLOOR WINDOW HEAD AFFE 6'-11" MAIN FLOOR WINDOW HEAD FFE 0'-0" MAIN FLOOR LEVEL FAMILY ROOM

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

BUILDING SECTION - Z

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

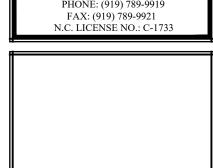
CONSTRUCTION SECTIONS & DETAILS THE HUMBER

j.s.Thompson

ENGINEERING, INC.

333 E. SIX FORKS RD.,SUITE 180 RALEIGH, NC 27609 PHONE: (919) 789-9919 FAX: (919) 789-9921 N.C. LICENSE NO.: C-1733

J.s. ${f T}$ HOMPSOI 333 E. SIX FORKS RD., SUITE 18 RALEIGH, NC 27609 PHONE: (919) 789-9919 FAX: (919) 789-9921 N.C. LICENSE NO.: C-1733







WINDOW & DOOR SCHEDULES THE HUMBER

WINDOW & DOOR GLAZING PATTERNS

SCALE: NOT TO SCALE

WINDOW HEAD ~ (TYP) 6'-11" AFFE

36" AFFE TWIN

#### NOTES:

1. ALL WINDOWS SHALL BE IN DOUBLE GLAZED INSULATED LOW 'E' GLAZING

TRANSOM WINDOW HEAD VARIES MIN 4 ½" BELOW U/S OF CEILING TRUSS

- 2. ALL HARDWARE TO BE PER CLIENT/ASCOT SELECTIONS
- 3. DETAIL SHOP DRAWINGS FOR ALL WINDOW TYPES SHALL BE APPROVED
- 4. ALL PROFILES TO BE APPROVED BY ASCOT
- 5. WINDOW DIMENSIONS AND GLAZING PATTERN ARE PER NOMINATED VINYL SIZE DOCUMENTATION COLORED VINYL SINGLE HUNG TILT & SLIDE & FIXED WINDOWS
- 6. WINDOWS NOTED AS EGRESS SHALL COMPLY WITH THE RELEVANT BUILDING CODE REFERENCE. ALL WINDOWS SILLS LOWER THAN 24" ABOVE FINISHED FLOOR ELEVATIONS SHALL BE PROVIDED WITH FALL PREVENTATIVE DEVICES OR RESTRICTED TO ONLY ALLOW A 4" DIAMETER SPHERE TO PASS. NO WINDOW SILL SHALL BE HIGHER THAN 72" ABOVE ADJACENT GRADE.
- 7. EGRESS WINDOWS SHALL HAVE A NET OPENING AREA OF NOT LESS THAN 5.0 SQFT (20 X 24) - (NORTH CAROLINA) FOR GRADE FLOOR EGRESS OR 5.7 SQFT TO UPPER EGRESS FLOORS. NO WINDOW SILL SHALL BE HIGHER THAN 44" ABOVE FINISHED FLOOR ELEVATION OR BELOW A MIN OF 24 ABOVE THE FINISHED FLOOR.
- 8. CONTRACTOR/ASCOT SUPERINTENDENT SHALL VERIFY ALL MASONRY & FRAME OPENINGS BUILT ON SITE PRIOR TO WINDOW INSTALLATION.
- 9. TEMPERED GLAZING SHALL BE PROVIDED AND INSTALLED WITH CRITICAL HAZARDOUS LOCATIONS PER LOCAL AND STATE CODES, AND AS NOTED ON PLANS AND ELEVATIONS HEREIN, UNLESS OTHERWISE AGREED WITH CODE OFFICIALS.

#### NOTES:

GLAZING IN WET AREAS WHEN A BATH TUB OR SHOWER IS INSTALLED SHALL BE TEMPERED GLASS WHEN THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" MEASURED VERTICALLY ABOVE THE FINISHED FLOOR ELEVATION - PER CODE: R308.4.5.

WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS BELOW 24" MEASURED VERTICALLY ABOVE THE FINISHED FLOOR ELEVATION TEMPERED GLASS SHALL COMPLY WITH EITHER ~ PREVENTATIVE FALL DEVICES SHALL BE INSTALLED OR THE WINDOW OPENING SHALL BE RESTRICTED TO A 4" OPENING DIMENSION NOT ALLOWING A 4" SPHERE TO PASS, PER CODE: R312.2.1.

GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36" ABOVE THE PLANE OF AN ADJACENT WALKING SURFACE OF STAIRWAYS, LANDING, BETWEEN FLIGHTS AND RAMPS SHALL BE CONSIDERED A HAZARDOUS LOCATION, PER CODE: R308.4.6

WHERE GLAZING IS WITHIN 24" OF EITHER SIDE OF A DOOR IN A CLOSED POSITION SHALL BE CONSIDERED A HAZARDOUS LOCATION, PER CODE: R308.4.2

GLAZING ADJACENT TO A LANDING AT THE BOTTOM OF A STAIRWAY WHERE GLAZING IS LESS THAN 36" ABOVE THE LANDING AND WITHIN 60" HORIZONTAL ARC LESS THAN 180 DEGREES FROM THE BOTTOM STAIR NOSING IS CONSIDERED A HAZARDOUS LOCATION, PER CODE: 308.4.7

EXTERNAL DOOR SCHEDULE				
MARK	SIZE (WxH)	LOCATION		
1	3'-0" X 6'-8"	FRONT ENTRANCE - TEMPERED GLASS		
1a	1'-0" X 6'-8"	OPTIONAL SIDELIGHTS - TEMPERED GLASS		
2	16'-0" X 8'-0"	GARAGE DOOR WITH OPTIONAL GLAZING PANELS		
3	6'-0" X 6'-8"	SLIDING GLASS DOOR - DINING AREA		
4	*2'-8" X 6'-8"	*OPTIONAL GARAGE SERVICE ENTRY DOOR		
5	*8'-0" X 8'-0"	*OPTIONAL GARAGE DOOR WITH OPTIONAL GLAZING PANELS		
6	*16'-0" X 7'-0"	*OPTIONAL GARAGE DOOR WITH SIDE LOAD OPTIONAL GLAZING PANELS		

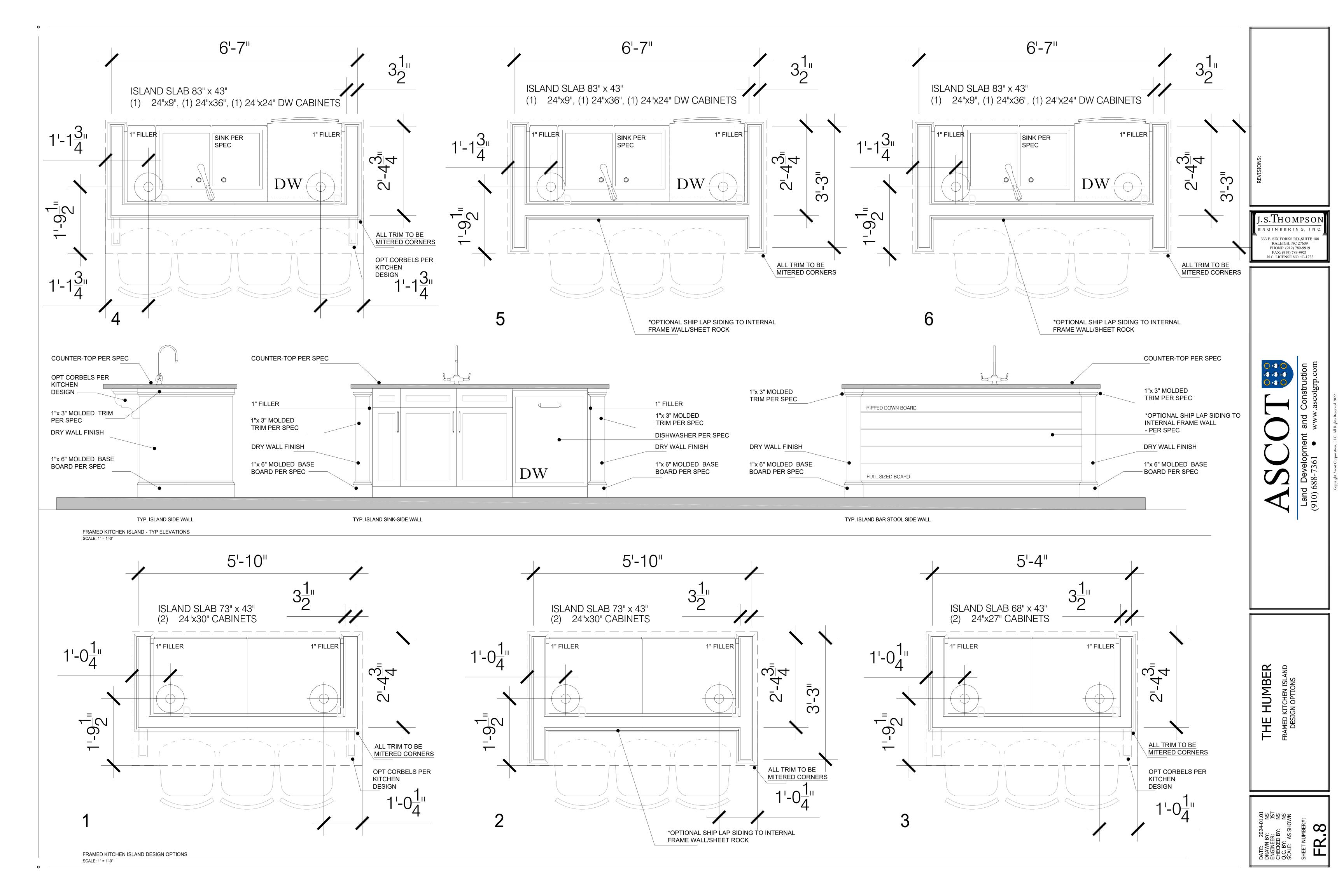
			RSCHEDULE
SIZE	QUANTITY	DOOR TYPE	NOTES
1'-6" X 6'-8"	1	SINGLE	OWNERS LINEN
2'-0" X 6'-8"	2	SINGLE	GUEST BATHROOMS / GUEST BATHROOM LINEN
2'-4" X 6'-8"	8	SINGLE	GUEST BEDROOM CLOSET/ OWNERS BATHROOM/ W.I.C./ GUEST BATHROOMS
2'-6" X 6'-8"	7	SINGLE	GUEST BATH / BEDROOM #2 /#3 /#4 / OWNERS BEDROOM / PANTRY / UNDER STAIR CLOSE
2'-8" X 6'-8"	1	SINGLE	LAUNDRY ROOM
2'-8" X 6'-8"	1	SINGLE	GARAGE FIRE DOOR - 20 MINUTE MIN
3'-0" X 6'-8"	3	BI-SWING PAIR	GUEST BEDROOM #3 /#4 CLOSET

	WINDOW SCHEDULE					
MARK	RO SIZE (WxH)	WINDOW TYPE	LOCATION	QUANTITY	NOTES	
а	TWIN 2'-8" X 5'-0"	SINGLE HUNG	GUEST BEDROOM #4	1		
b	2'-0" X 2'-0"	PICTURE	OWNERS WC / OWNERS W.I.C / LAUNDRY	2 *(1) OPTION	*TEMPERED WHEN OPTIONAL SINK IS INSTALLED	
С	NOT USED					
d	NOT USED					
е	NOT USED					
f	2'-8" X 5'-0"	SINGLE HUNG	FAMILY ROOM / OPTIONAL SIDE LOAD GARAGE	*(5) OPTION		
g	NOT USED					
h	NOT USED					
j	TWIN 2'-8" X 4'-10"	SINGLE HUNG	OWNERS BEDROOM/ GUEST BEDROOM #2/#3/ LOFT	4	EGRESS TO OWNER SUITE	
k	NOT USED					
ļ	TRIPPLE 2'-8" X 5'-0"	SINGLE HUNG	FAMILY ROOM	1		
m	NOT USED					
n	2'-0" X 3'-0"	SINGLE HUNG	GUEST BATHROOMS / OWNERS BATHROOM	3	TEMPERED (2)	
0	NOT USED					
S	TWIN 2'-8" X 4'-0"	SINGLE HUNG	OWNERS BEDROOM	1		

**SCHEDULES** SCALE: NTS

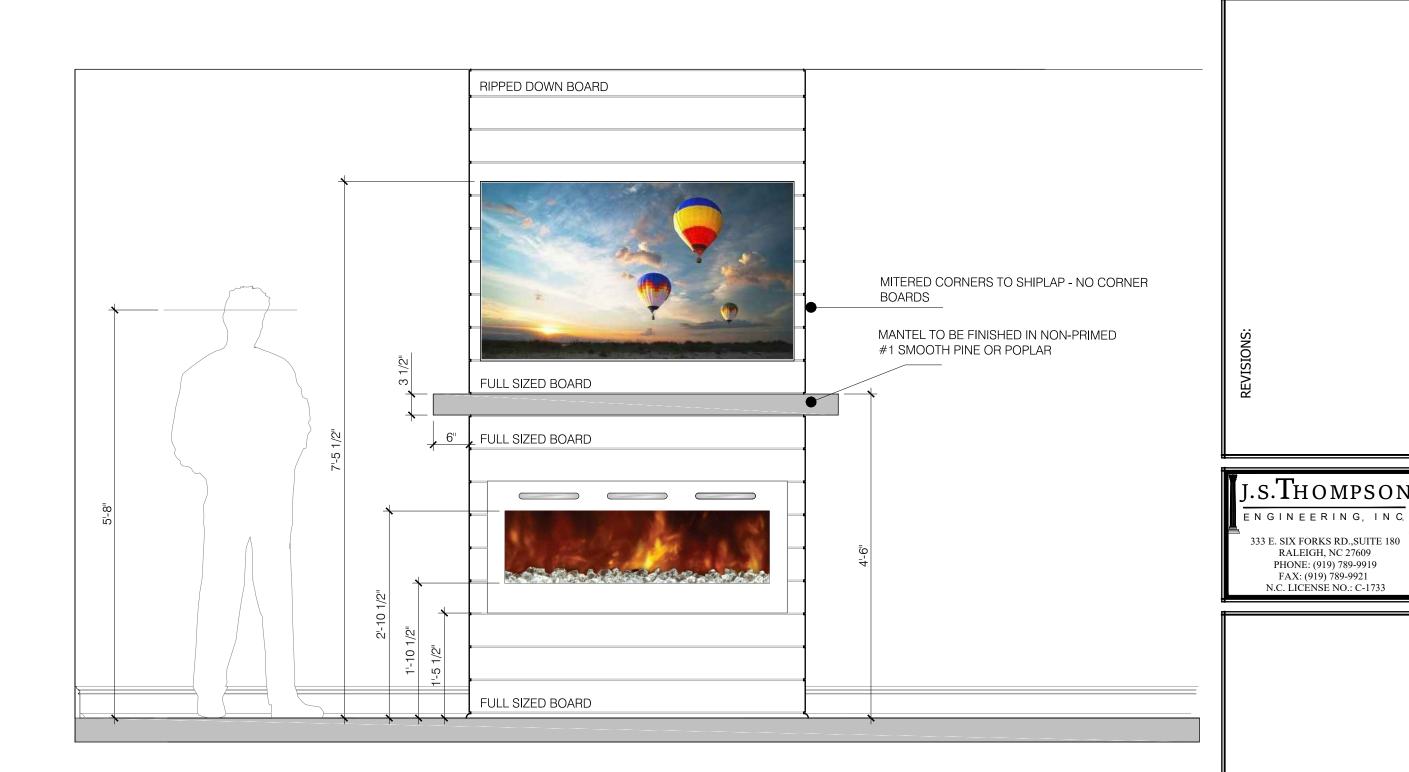
**GENERAL NOTES** 

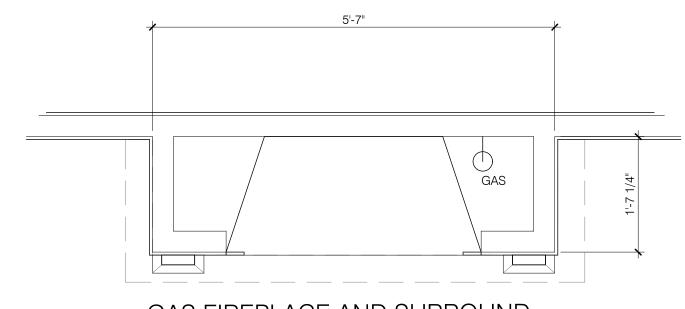
SCALE: NTS











GAS FIREPLACE AND SURROUND

(877) 863-43*5*0 | monessenhearth.com

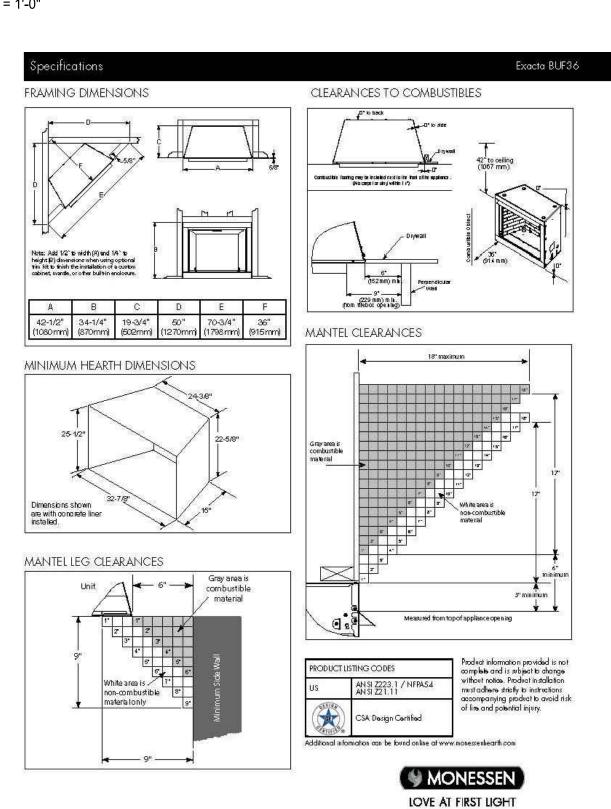
EXACTA 36 VENT FREE FIREBOX - BUF36

OPTION SELECTION #2: GAS FIRE AND FIRE SURROUND

EXACTA BUF36 SPEC SHEET #2

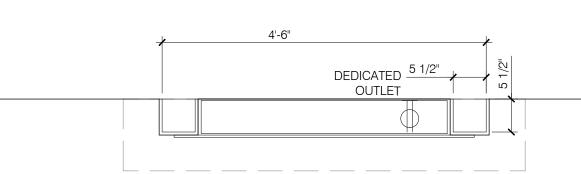
SCALE: NTS

SCALE: 3/4" = 1'-0"





MANTEL TO BE FINISHED IN NON-PRIMED #1 SMOOTH PINE OR POPLAR 



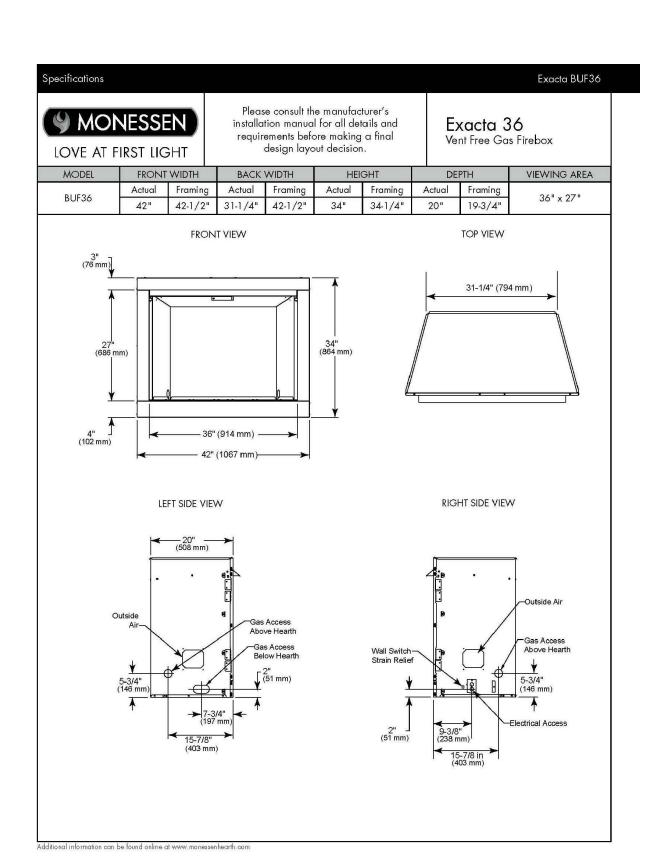
LINEAR ELECTRIC LIVING FLAME FIRE.

> EXACTA BUF36 SPEC SHEET #1 SCALE: NTS

DEDICATED 5 1/2"
OUTLET SUBJECT TO PO LINEAR ELECTRIC LIVING FLAME FIRE.

MODEL/SPEC -TBD

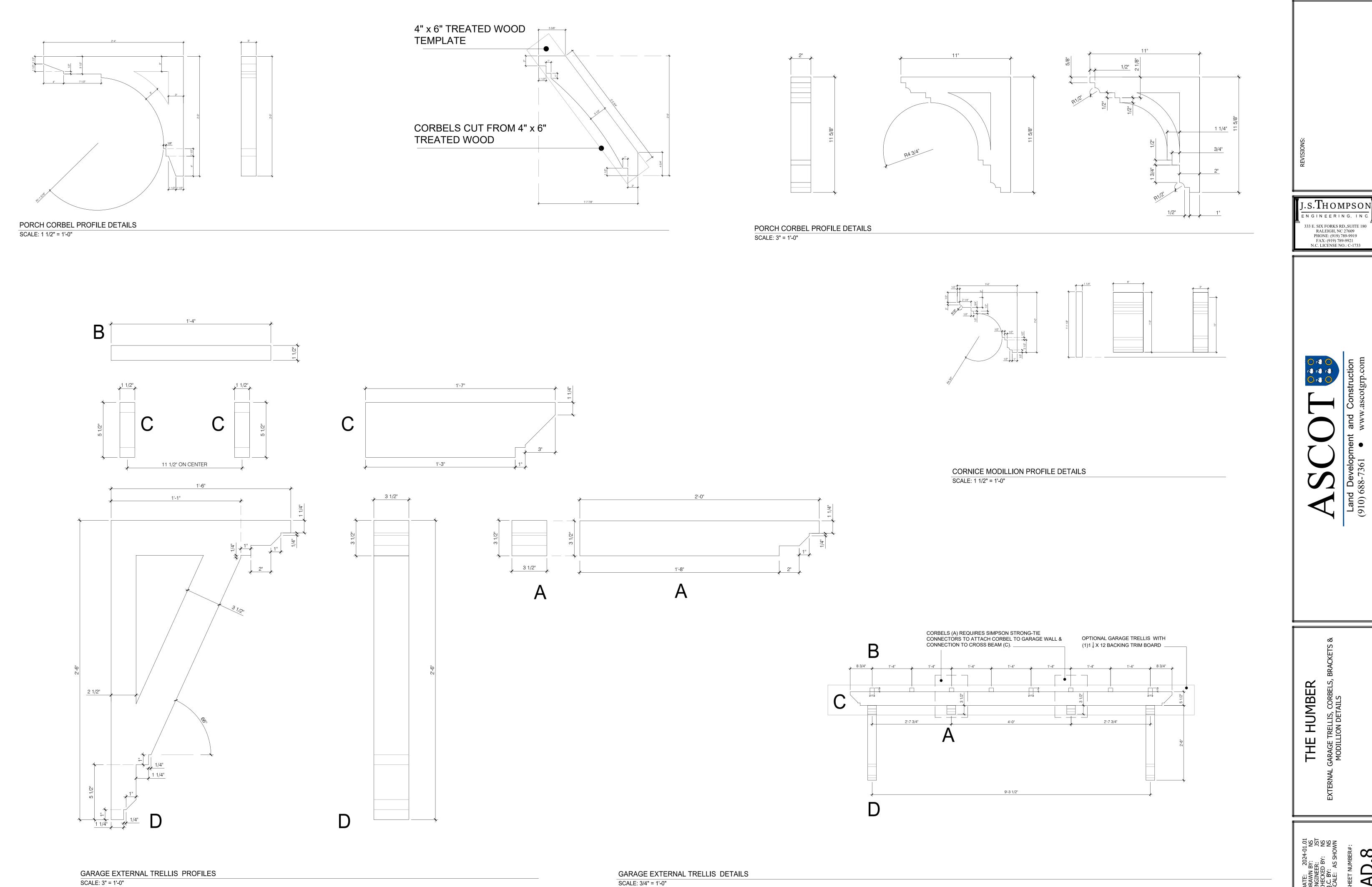
OPTION SELECTION #1 ELECTRIC FIRE AND MANTEL - SHIPLAP FINISH SCALE: 3/4" = 1'-0"



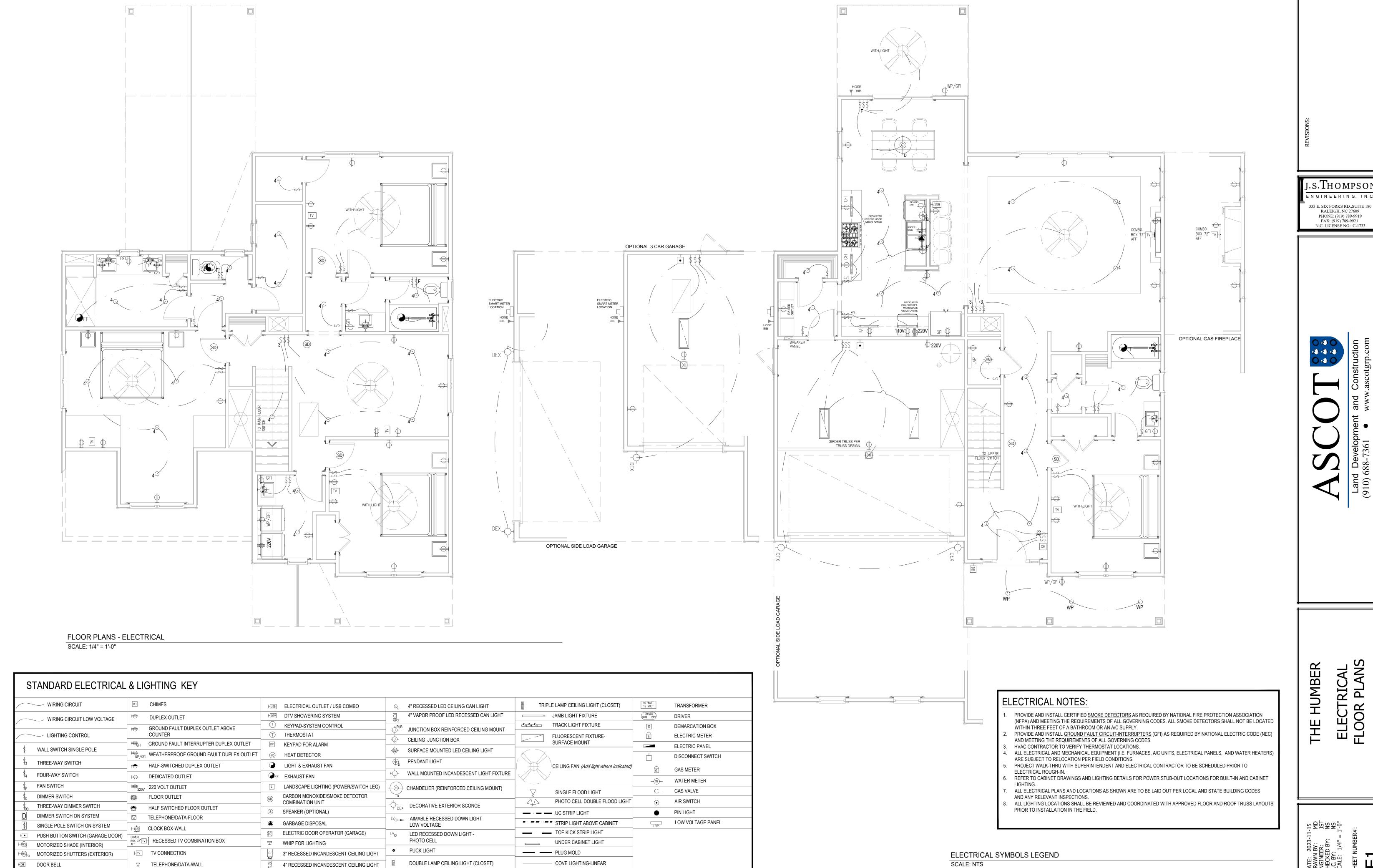


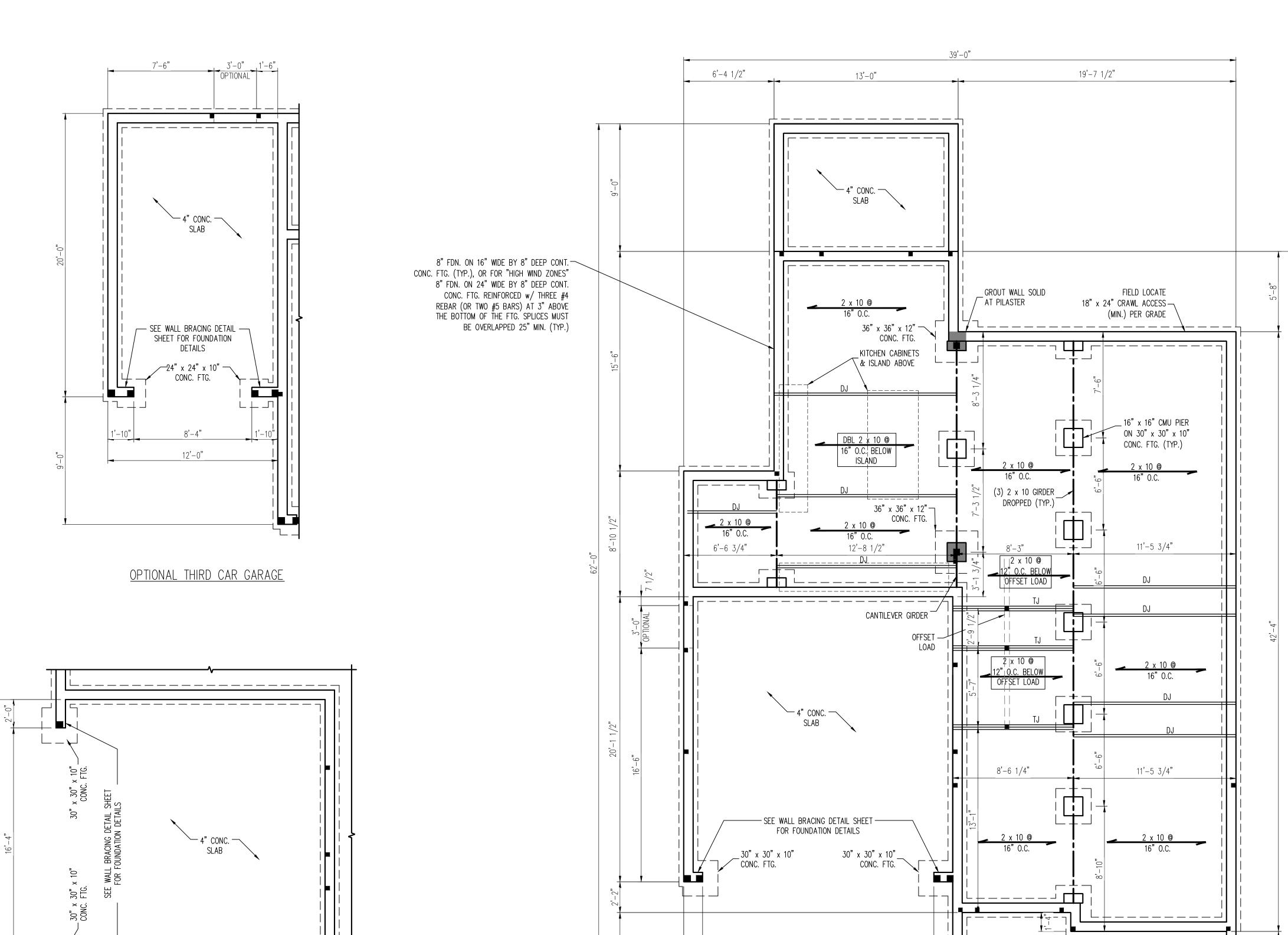
FAX: (919) 789-9921 N.C. LICÈNSE NO.: C-1733

STANDARD SELECTION: ELECTRIC FIRE AND MANTEL - DRYWALL FINISH SCALE: 3/4" = 1'-0"



SCALE: 3/4" = 1'-0"





16'-4"

19'-0"

19'-0"

OPTIONAL SIDE LOAD GARAGE

150 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

> ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF

STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION WITH SPECIAL

CONSIDERATION TO CHAPTER 45 ("HIGH WIND ZONES" FOR 150 MPH WINDS). BUILDER IS TO PROVIDE FRAMING CONNECTIONS AS REQUIRED BY CHAPTER 45 ("HIGH WIND ZONES" FOR 150 MPH WINDS) OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION. FOUNDATION ANCHORAGE TO COMPLY WITH

SECTION 4504 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION. MEAN ROOF HEIGHT IS LESS THAN 30 FEET. WALL CLADDING DESIGNED FOR +24.3 PSF AND -32 PSF (+/- INDICATE POSITIVE / NEGATIVE PRESSURE (TYP).

ROOF CLADDING DESIGNED FOR +22.2 PSF AND

-28 PSF FOR ROOF PITCHES 7/12 TO 12/12 AND +14 PSF AND -57 PSF FOR ROOF PITCHED 2.25/12 TO 7/12.

7/16" OSB SHEATHING IS REQUIRED ON ALL EXTERIOR WALLS. WALLS TO BE BRACED IN ACCORDANCE WITH

SECTION R602.10 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION AND AS NOTED

ON PLANS. . ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

#### 120 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN <u>30' MEAN ROOF HEIGHT:</u>

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. STRUCTURAL DESIGN PER NORTH CAROLINA
- RESIDENTIAL CODE, 2018 EDITION. INSTALL 1/2" ANCHOR BOLTS 6'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 7" INTO MASONRY OR CONCRETE. LOCATE BOLT WITHIN
- MIDDLE THIRD OF PLATE WIDTH. . MEAN ROOF HEIGHT IS LESS THAN 30 FEET. 5. EXTERIOR WALLS DESIGNED FOR 120 MPH WINDS. 6. WALL CLADDING DESIGNED FOR +15.5 PSF AND -2

PSF (+/- INDICATE POSITIVE / NEGATIVE

- PRESSURE (TYP). ROOF CLADDING DESIGNED FOR +14.2 PSF AND -18 PSF FOR ROOF PITCHES 7/12 TO 12/12 AND +10 PSF AND -36 PSF FOR ROOF PITCHED 2.25/12 TO
- . INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10.3 OF THE NCRC, 2018 EDITION. SEE THE WALL BRACING NOTES AND DETAILS SHEET FOR MORE INFORMATION.
- . ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION. 10. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

STRUCTURAL NOTES: ALL FRAMING LUMBER TO BE #2 SPF (UNO). ALL TREATED LUMBER TO BE #2

- . PROVIDE DOUBLE OR TRIPLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS. S. SQUARES DENOTE POINT LOADS WHICH
- REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. 4. SHADED PIERS TO BE FILLED SOLID. 5. INSTALL LADDER WIRE @ 16" O.C. TO
- SECURE MULTIPLE WYTHE FOUNDATION WALLS TOGETHER. . REFER TO NOTES AND DETAIL SHEETS FOR

ADDITIONAL STRUCTURAL INFORMATION.

LEGEND				
CONT	CONTINUOUS			
ΧJ	EXTRA JOIST			
DJ	DOUBLE JOIST			
TJ	TRIPLE JOIST			
EA	EACH			
FDN	FOUNDATION			
FTG	FOOTING			
OC	ON CENTER			
SPF	SPRUCE PINE FIR			
SYP	SOUTHERN YELLOW PINE			
TRTD	PRESSURE TREATED			
TYP	TYPICAL			
UNO	UNLESS NOTED OTHERWISE			

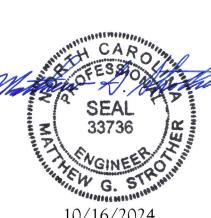
DRAWN BY: ASCOT GROUP ENGINEERED BY: WFB S-1a CRAWL

DATE: OCTOBER 16, 2024

FOUNDATION PLAN

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

HUMBER ASCOT GROUP

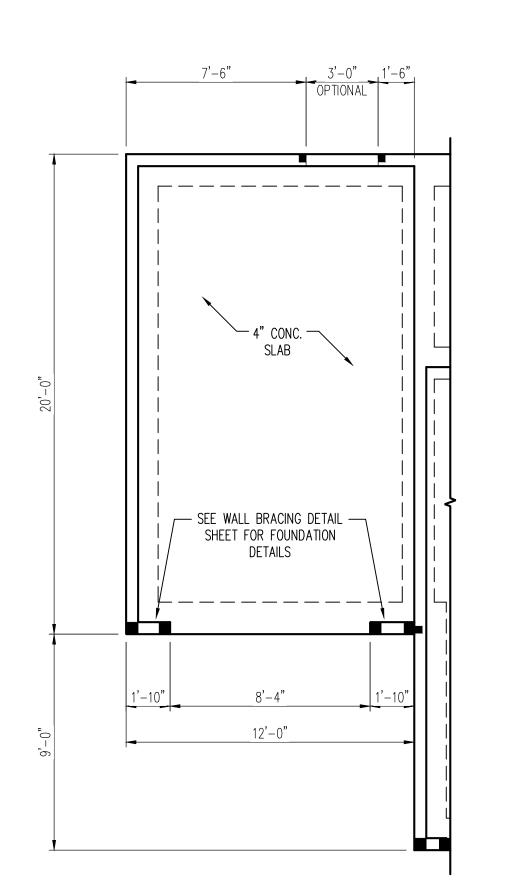


— 4" CONC.

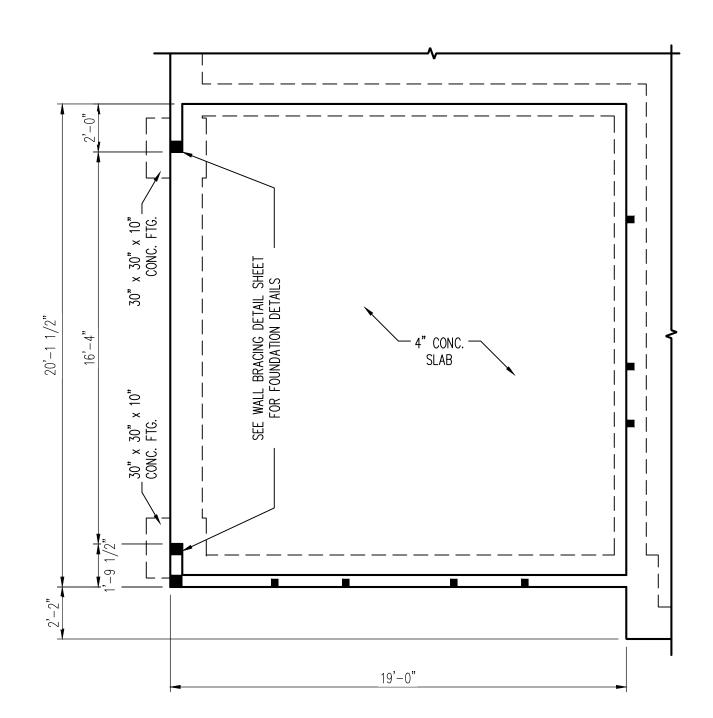
20'-0"

8'-4"

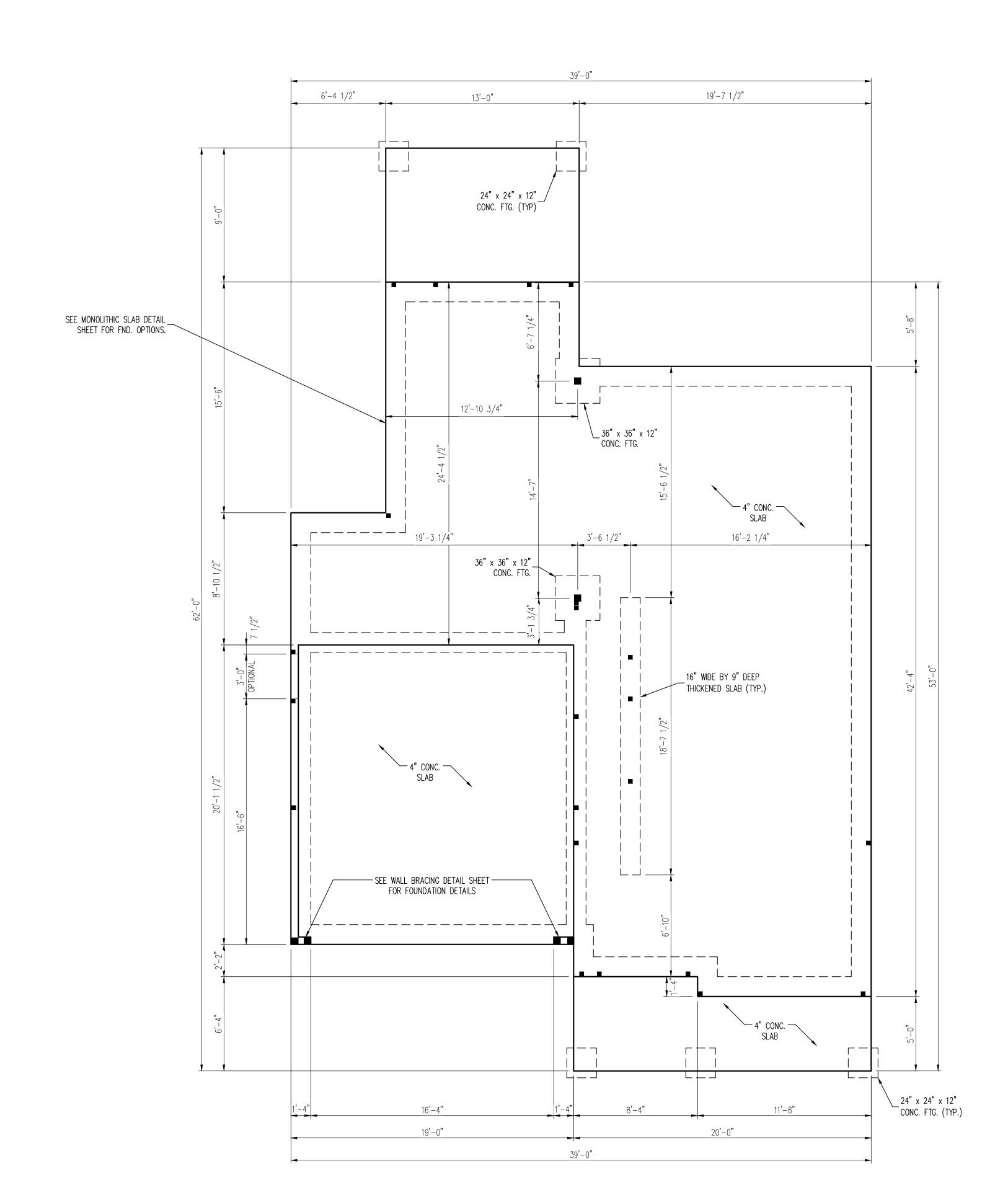
39'-0"

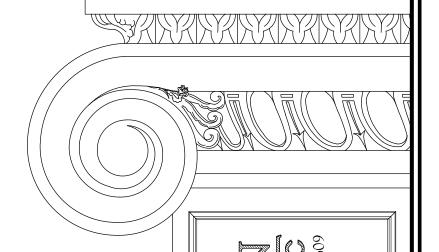


OPTIONAL THIRD CAR GARAGE



OPTIONAL SIDE LOAD GARAGE





#### 150 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM
- STRUCTURAL DESIGN PER NORTH CAROLINA
   RESIDENTIAL CODE, 2018 EDITION WITH SPECIAL
   CONSIDERATION TO CHAPTER 45 ("HIGH WIND
   ZONES" FOR 150 MPH WINDS).
- BUILDER IS TO PROVIDE FRAMING CONNECTIONS
   AS REQUIRED BY CHAPTER 45 ("HIGH WIND
   ZONES" FOR 150 MPH WINDS) OF THE NORTH
   CAROLINA RESIDENTIAL CODE, 2018 EDITION.

  4. FOUNDATION ANCHORAGE TO COMPLY WITH
   SECTION 4504 OF THE NORTH CAROLINA
   RESIDENTIAL CODE, 2018 EDITION.
- MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
   WALL CLADDING DESIGNED FOR +24.3 PSF AND
   –32 PSF (+/- INDICATE POSITIVE / NEGATIVE
   PRESSURE (TYP).
- 7. ROOF CLADDING DESIGNED FOR +22.2 PSF AND

  -28 PSF FOR ROOF PITCHES 7/12 TO 12/12

  AND +14 PSF AND -57 PSF FOR ROOF PITCHED

  2.25/12 TO 7/12.
- 7/16" OSB SHEATHING IS REQUIRED ON ALL EXTERIOR WALLS.

  9. WALLS TO BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION AND AS NOTED ON PLANS.
- 10. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

#### 120 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL
- LAYOUT INCLUDING ROOF SYSTEM.

  2. STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 3. INSTALL 1/2" ANCHOR BOLTS 6'-0" O.C. AND
  WITHIN 1'-0" FROM END OF EACH CORNER.
  ANCHOR BOLTS MUST EXTEND A MINIMUM OF 7"
  INTO MASONRY OR CONCRETE. LOCATE BOLT WITHIN
- 4. MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
  5. EXTERIOR WALLS DESIGNED FOR 120 MPH WINDS.
  6. WALL CLADDING DESIGNED FOR +15.5 PSF AND -20
  PSF (+/- INDICATE POSITIVE / NEGATIVE

MIDDLE THIRD OF PLATE WIDTH.

- PRESSURE (TYP).

  7. ROOF CLADDING DESIGNED FOR +14.2 PSF AND -18
  PSF FOR ROOF PITCHES 7/12 TO 12/12 AND +10
  PSF AND -36 PSF FOR ROOF PITCHED 2.25/12 TO
- 8. INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10.3 OF THE NCRC, 2018 EDITION. SEE THE WALL BRACING NOTES AND DETAILS SHEET FOR MORE INFORMATION.
- 9. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

  10. REFER TO NOTES AND DETAIL SHEETS FOR

ADDITIONAL STRUCTURAL INFORMATION.

	LEGEND
CONT	CONTINUOUS
XJ	EXTRA JOIST
DJ	DOUBLE JOIST
TJ	TRIPLE JOIST
EA	EACH
FDN	FOUNDATION
FTG	FOOTING
OC	ON CENTER
SPF	SPRUCE PINE FIR
SYP	SOUTHERN YELLOW PINE
TRTD	PRESSURE TREATED
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
	XJ DJ TJ EA FDN FTG OC SPF SYP TRTD TYP



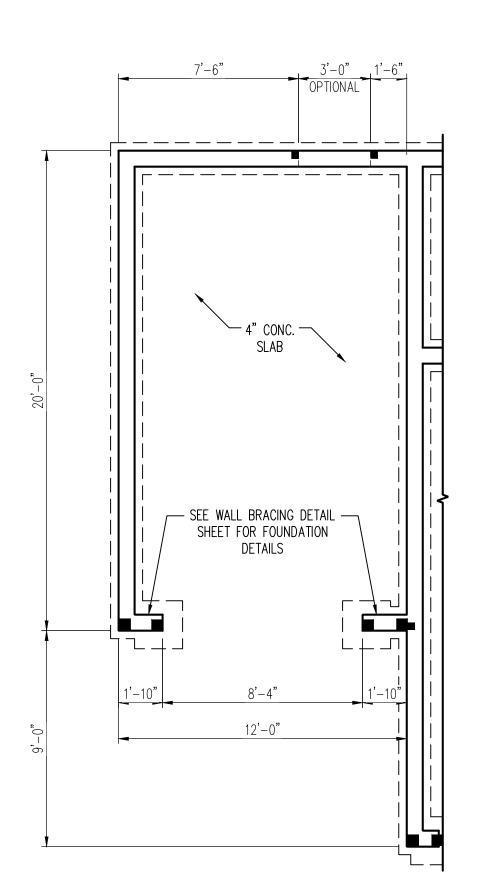
DATE: OCTOBER 16, 2024

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

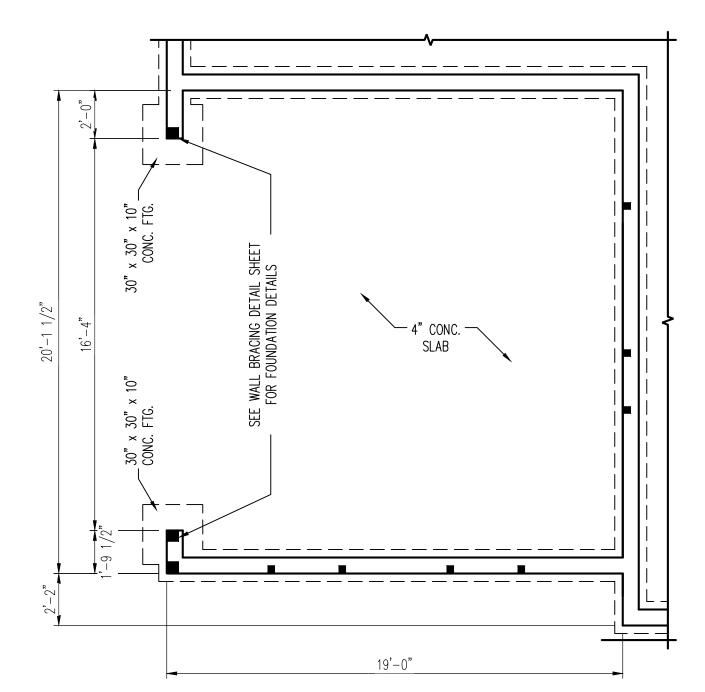
ENGINEERED BY: WFB

DRAWN BY: ASCOT GROUP

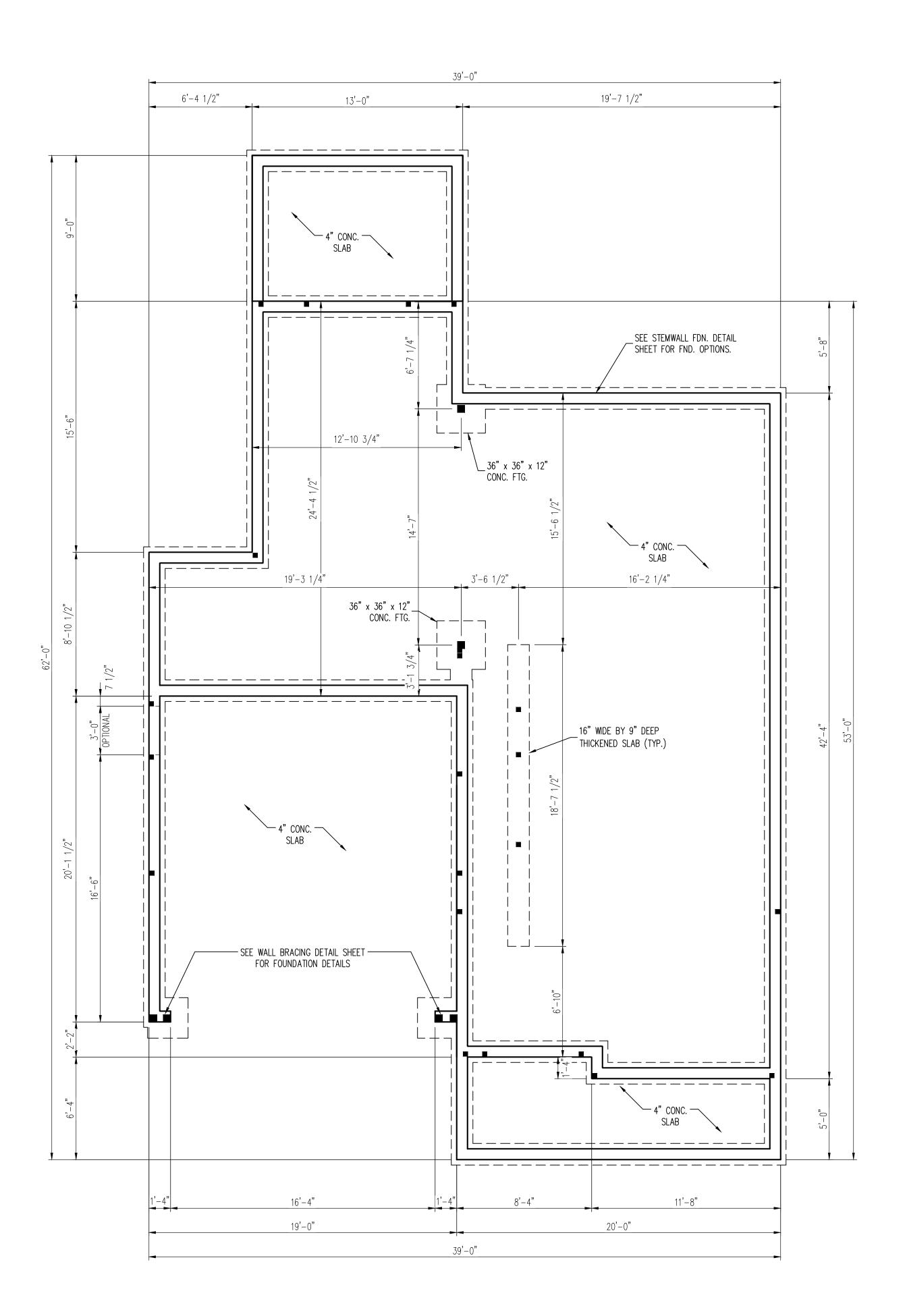
S-1b mono slab foundation plan

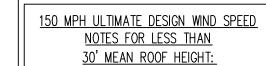


OPTIONAL THIRD CAR GARAGE



OPTIONAL SIDE LOAD GARAGE





ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF

STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION WITH SPECIAL CONSIDERATION TO CHAPTER 45 ("HIGH WIND ZONES" FOR 150 MPH WINDS).

BUILDER IS TO PROVIDE FRAMING CONNECTIONS AS REQUIRED BY CHAPTER 45 ("HIGH WIND ZONES" FOR 150 MPH WINDS) OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION. FOUNDATION ANCHORAGE TO COMPLY WITH SECTION 4504 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.

-32 PSF (+/- INDICATE POSITIVE / NEGATIVE PRESSURE (TYP). ROOF CLADDING DESIGNED FOR +22.2 PSF AND -28 PSF FOR ROOF PITCHES 7/12 TO 12/12 AND +14 PSF AND -57 PSF FOR ROOF PITCHED

MEAN ROOF HEIGHT IS LESS THAN 30 FEET. WALL CLADDING DESIGNED FOR +24.3 PSF AND

2.25/12 TO 7/12. 7/16" OSB SHEATHING IS REQUIRED ON ALL

EXTERIOR WALLS. WALLS TO BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION AND AS NOTED ON PLANS.

O. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

#### 120 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN <u>30' MEAN ROOF HEIGHT:</u>

ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL

LAYOUT INCLUDING ROOF SYSTEM. STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.

5. INSTALL 1/2" ANCHOR BOLTS 6'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 7" INTO MASONRY OR CONCRETE. LOCATE BOLT WITHIN

MIDDLE THIRD OF PLATE WIDTH. MEAN ROOF HEIGHT IS LESS THAN 30 FEET. 5. EXTERIOR WALLS DESIGNED FOR 120 MPH WINDS.
6. WALL CLADDING DESIGNED FOR +15.5 PSF AND -20

PSF (+/- INDICATE POSITIVE / NEGATIVE PRESSURE (TYP).

7. ROOF CLADDING DESIGNED FOR +14.2 PSF AND -18

PSF FOR ROOF PITCHES 7/12 TO 12/12 AND +10 PSF AND -36 PSF FOR ROOF PITCHED 2.25/12 TO 8. INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH

SECTION R602.10.3 OF THE NCRC, 2018 EDITION. SEE THE WALL BRACING NOTES AND DETAILS SHEET FOR MORE INFORMATION.

9. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION. 10. REFER TO NOTES AND DETAIL SHEETS FOR

ADDITIONAL STRUCTURAL INFORMATION.

_		
		LEGEND
	CONT	CONTINUOUS
	XJ	EXTRA JOIST
	DJ	DOUBLE JOIST
	TJ	TRIPLE JOIST
	EA	EACH
	FDN	FOUNDATION
	FTG	FOOTING
	OC	ON CENTER
	SPF	SPRUCE PINE FIR
	SYP	SOUTHERN YELLOW PINE

TRTD PRESSURE TREATED

UNO UNLESS NOTED OTHERWISE

TYP TYPICAL

DATE: OCTOBER 16, 2024

HUMBER ASCOT GROUP

DRAWN BY: ASCOT GROUP

ENGINEERED BY: WFB

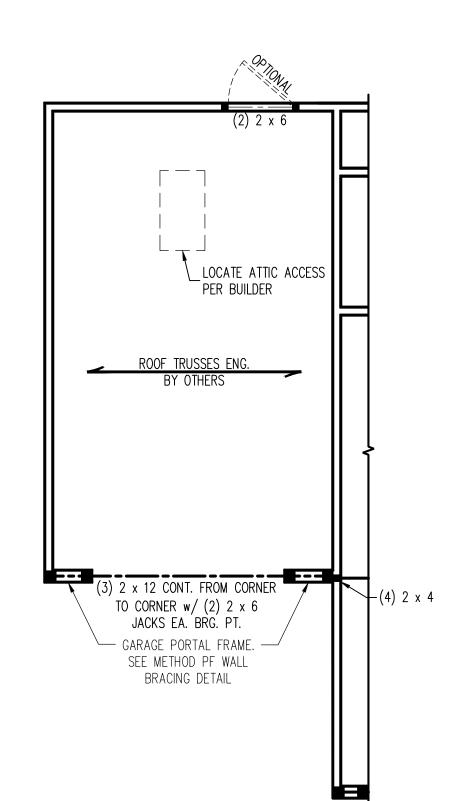
SCALE: 1/4" = 1'-0"

S-1

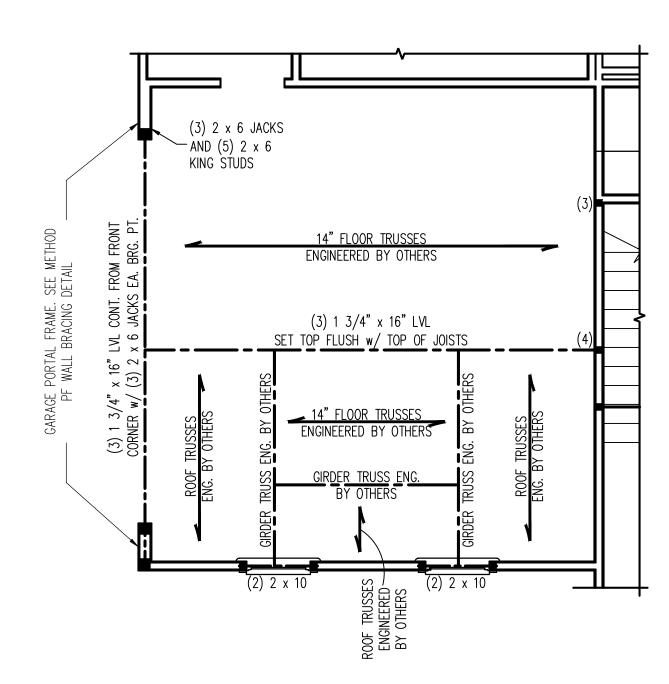
STEM WALL FOUNDATION PLAN







OPTIONAL THIRD CAR GARAGE



OPTIONAL SIDE LOAD GARAGE

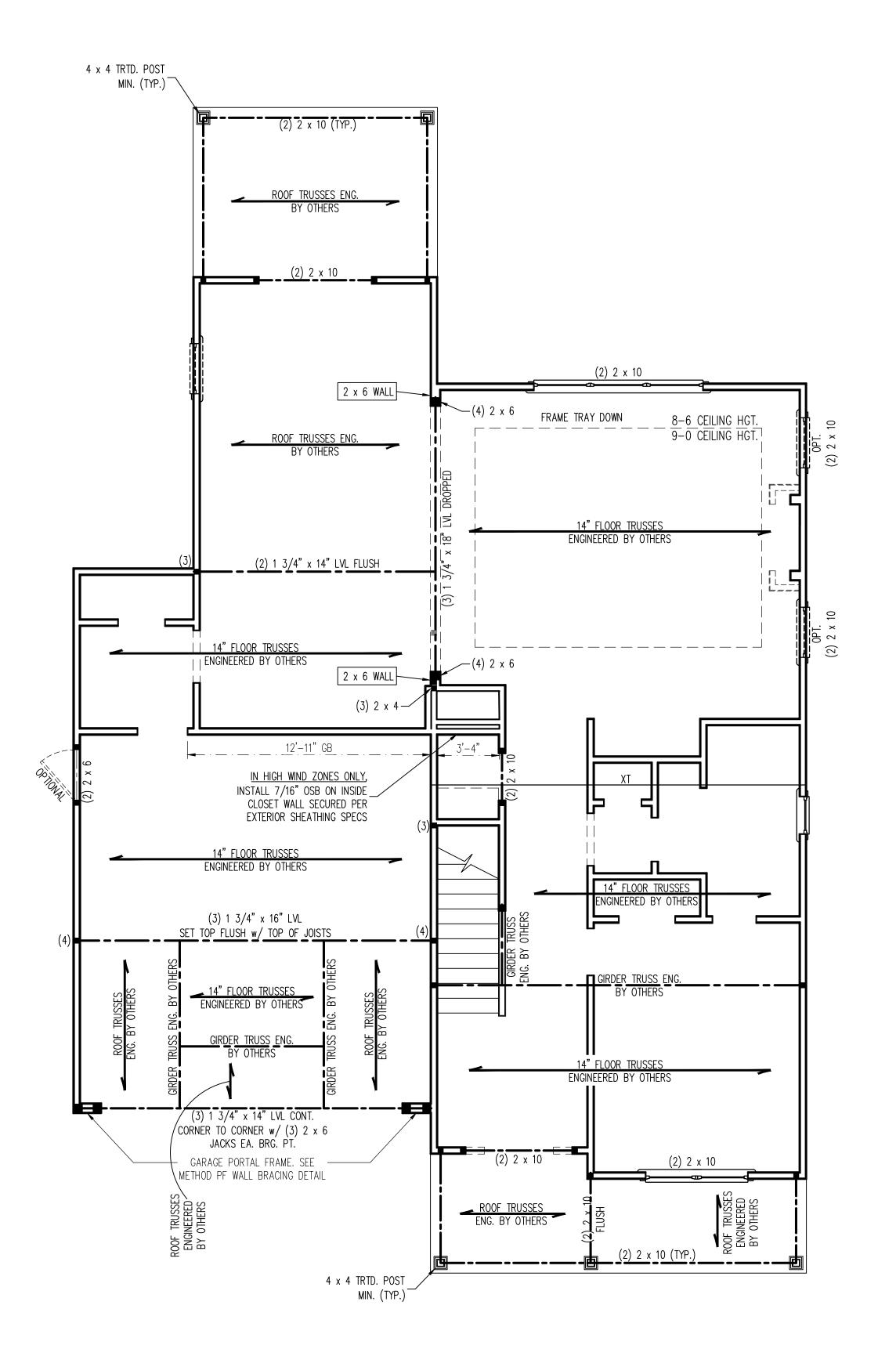


TABLE R602.7.5 MINIMUM NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN (FEET)	MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS)
UP TO 3'	1
> 3' TO 6'	2
> 6' TO 9'	3
> 9' TO 12'	4
> 12' TO 15'	5

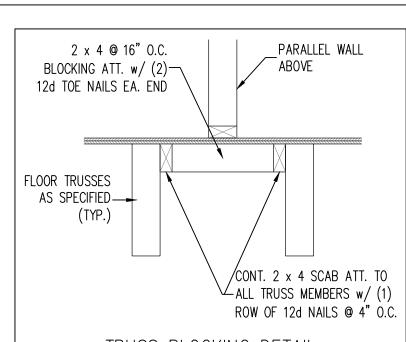


#### BRACED WALL DESIGN NOTES:

- 1. BRACED WALL DESIGN PER SECTION R602.10.5 "WALL BRACING BY ENGINEERED DESIGN" OF THE NCRC 2018 EDITION USING BRACING MATERIALS AND METHODS LISTED IN TABLE R602.10.1 ALONG WITH ALTERNATIVE MATERIALS AND METHODS THAT COMPLY WITH ACCEPTED ENGINEERING PRACTICE. BRACED WALL DESIGN IS NOT PRESCRIPTIVE. . SHEATH ALL EXTERIOR WALLS w/ 7/16" OSB TO PROVIDE CS-WSP WALL
- BRACING THAT WILL BRACE THE STRUCTURE FOR ALL LATERAL LOADS AS REQUIRED BY THE NCRC 2018 EDITION. 3. CS-WSP REFERS TO "CONTINUOUSLY SHEATHED WOOD STRUCTURAL
- PANELS." CONTRACTOR IS TO INSTALL 7/16" OSB ON ALL EXTERIOR WALLS ATTACHED w/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD. 4. GB REFERS TO "GYPSUM BOARD." CONTRACTOR IS TO INSTALL 1/2" (MIN.)
- GYPSUM BOARD ON BOTH SIDES OF WALL WHERE NOTED ON THE PLANS ATTACHED WITH 1 1/4" LONG #6 SCREWS OR 1 5/8" LONG 5d COOLER NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD. 5. BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH |
- WIND ZONES, BRACED WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NCRC 2018 EDITION. 6. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL
- INFORMATION.

#### STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).
- INSTALL 2 x 4 @ 16" O.C. BLOCKING BETWEEN ADJACENT TRUSSES UNDER WALLS PARALLEL TO FLOOR TRUSSES WHERE WALL LENGTH EXCEEDS 1/3 OF TRUSS SPAN (SEE DETAIL THIS SHEET). TRUSS DESIGNER TO DESIGN ADJACENT TRUSSES FOR ADDITIONAL LOADING FROM WALLS.
- WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.). SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD REQUIREMENTS.
- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)
- FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO BE SHEATHED WITH 7/16" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG EDGES AND 6" O.C. IN THE FIELD.
- FOR HIGH WIND ZONES, SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2) ROWS OF 8d NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL
- PLATES THEIR FULL DEPTH. 8. ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS w/ SIMPSON ABU44 POST BASES (OR EQUAL) AND 6 x 6 POSTS w/ ABU66 POST BASES (OR EQUAL) (UNO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO.)
- FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY OTHERS, SECURE TO SLAB w/ (2) METAL ANGLES USING 2" CONC. SCREWS. FASTEN ANGLES TO COLUMNS w/ 1/4" THROUGH BOLTS w/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN.
- 10. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.



TRUSS BLOCKING DETAIL INSTALL 2 x 4 @ 16" O.C. BLOCKING BETWEEN ADJACENT TRUSSES UNDER WALLS PARALLEL TO FLOOR TRUSSES WHERE WALL LENGTH EXCEEDS 1/3 OF TRUSS SPAN. TRUSS DESIGNER TO DESIGN ADJACENT TRUSSES FOR ADDITIONAL LOADING FROM WALLS.

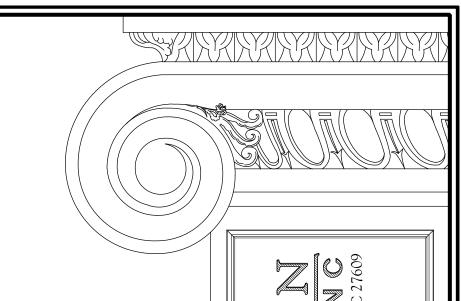
10/16/2024

LEGEND		
CONT	CONTINUOUS	
XT	EXTRA TRUSS	
TS	TRUSS SUPPORT	
EA	EACH	
( )	NUMBER OF STUDS	
DSP	DOUBLE STUD POCKET	
TSP	TRIPLE STUD POCKET	
OC	ON CENTER	
SPF	SPRUCE PINE FIR	
SYP	SOUTHERN YELLOW PINE	
TRTD	PRESSURE TREATED	
TYP	TYPICAL	
UNO UNLESS NOTED OTHERWISE		

DATE: OCTOBER 16, 2024 SCALE: 1/4" = 1'-0" DRAWN BY: ASCOT GROUP ENGINEERED BY: WFB

HUMBER ASCOT GROUP

SECOND FLOOR FRAMING PLAN



#### BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602.10.5 "WALL BRACING BY ENGINEERED DESIGN" OF THE NCRC 2018 EDITION USING BRACING MATERIALS AND METHODS LISTED IN TABLE R602.10.1 ALONG WITH ALTERNATIVE MATERIALS AND METHODS THAT COMPLY WITH ACCEPTED ENGINEERING PRACTICE. BRACED WALL DESIGN IS NOT PRESCRIPTIVE.
   SHEATH ALL EXTERIOR WALLS w/ 7/16" OSB TO PROVIDE CS-WSP WALL
- BRACING THAT WILL BRACE THE STRUCTURE FOR ALL LATERAL LOADS AS REQUIRED BY THE NCRC 2018 EDITION.

  3. CS-WSP REFERS TO "CONTINUOUSLY SHEATHED WOOD STRUCTURAL"
- PANELS." CONTRACTOR IS TO INSTALL 7/16" OSB ON ALL EXTERIOR WALLS
  ATTACHED w/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12"
  O.C. IN THE FIELD.

  4. GB REFERS TO "GYPSUM BOARD." CONTRACTOR IS TO INSTALL 1/2" (MIN.)
  GYPSUM BOARD ON BOTH SIDES OF WALL WHERE NOTED ON THE PLANS
- ATTACHED WITH 1 1/4" LONG #6 SCREWS OR 1 5/8" LONG 5d COOLER
  NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD.

  5. BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH
  WIND ZONES, BRACED WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE
- WITH CHAPTER 45 OF THE NCRC 2018 EDITION.

  6. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

#### STRUCTURAL NOTES:

- 1. ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.)
- 2. ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).

  3. WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1)

  JACK STUD AND (1) KING STUD EA. END (UNO.). SEE TABLE

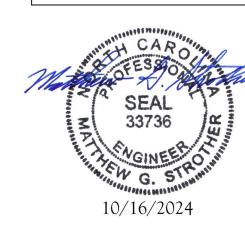
  PRO2 7 5 FOR ADDITIONAL KING STUD PROJUPEMENTS
- R602.7.5 FOR ADDITIONAL KING STUD REQUIREMENTS.

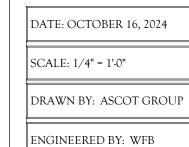
  4. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)
- 5. FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO BE SHEATHED WITH 7/16" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG EDGES AND 6" O.C. IN THE FIELD.
- 6. FOR HIGH WIND ZONES, SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2) ROWS OF 8d NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR FULL DEPTH.
- 7. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

## TABLE R602.7.5 MINIMUM NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

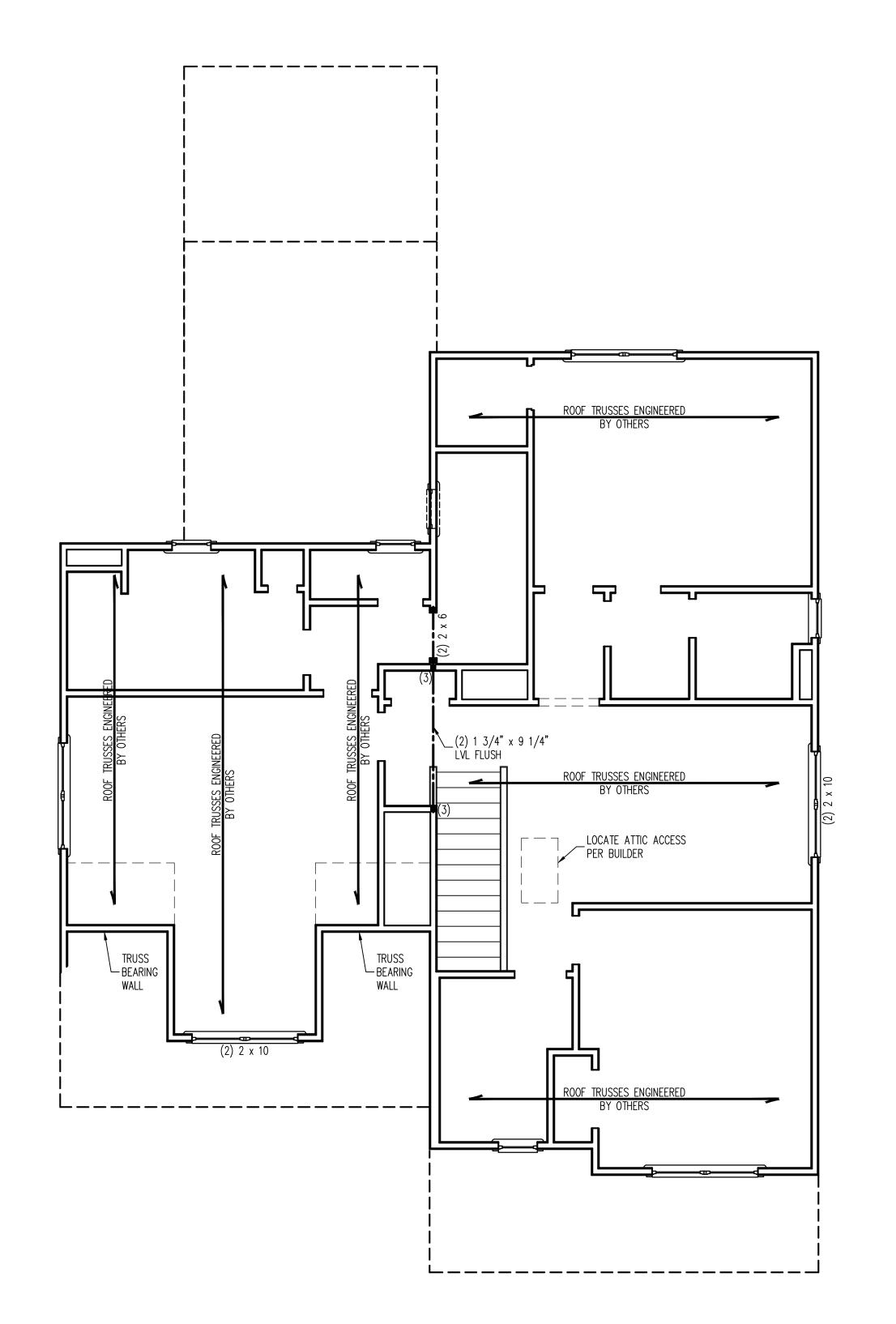
HEADER SPAN (FEET)	MINIMUM NUMBER OF FUL HEIGHT STUDS (KINGS)
UP TO 3'	1
> 3' TO 6'	2
> 6' TO 9'	3
> 9' TO 12'	4
> 12' TO 15'	5
	•

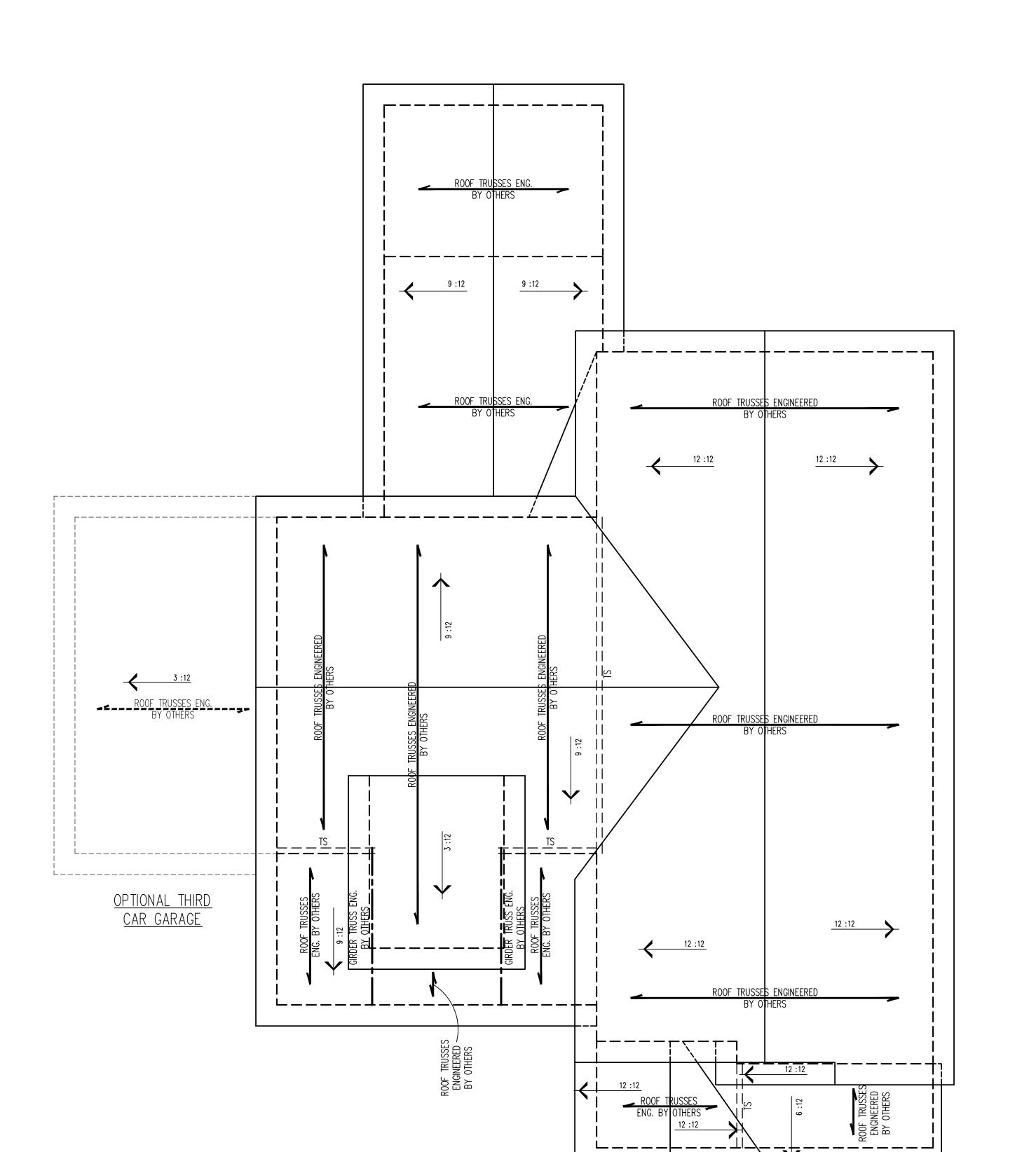
_		
		LEGEND
	CONT	CONTINUOUS
	XT	EXTRA TRUSS
	TS	TRUSS SUPPORT
	EA	EACH
	( )	NUMBER OF STUDS
	DSP	DOUBLE STUD POCKET
	TSP	TRIPLE STUD POCKET
	OC	ON CENTER
	SPF	SPRUCE PINE FIR
	SYP	SOUTHERN YELLOW PINE
	TRTD	PRESSURE TREATED
	TYP	TYPICAL
	UNO	UNLESS NOTED OTHERWISE
	TYP	TYPICAL





S-3
ATTIC FLOOR
FRAMING PLAN





#### STRUCTURAL NOTES:

1. ALL FRAMING LUMBER TO BE #2 SPF (UNO).
2. CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF

STICK FRAME OVER-FRAMED ROOF SECTIONS W/
 2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND
 FLAT 2 x 10 VALLEYS OR USE VALLEY TRUSSES.
 FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES
 WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C.
 MAX. PASS HURRICANE TIES THROUGH NOTCH IN
 ROOF SHEATHING. EACH RAFTER IS TO BE
 FASTENED TO THE FLAT VALLEY WITH A MIN. OF
 (6) 12d TOE NAILS.

(6) 12d TOE NAILS.

REFER TO SECTION R802.11 OF THE 2018 NCRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND TRUSSES.

REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PITCHES, PLATE HEIGHTS, DIMENSIONS, OVERHANG WIDTHS, AND ATTIC VENT CALCS.

LEGEND		
XT	EXTRA TRUSS	
TS	TRUSS SUPPORT	
XR	EXTRA RAFTER	
RS	RAFTER SUPPORT	
CONT	CONTINUOUS	
EA	EACH	
OC	ON CENTER	
SPF	SPRUCE PINE FIR	
SYP	SOUTHERN YELLOW PINE	
TYP	TYPICAL	
UNO	UNLESS NOTED OTHERWISE	

HUMBER SCOT GROUF

DATE: OCTOBER 16, 2024

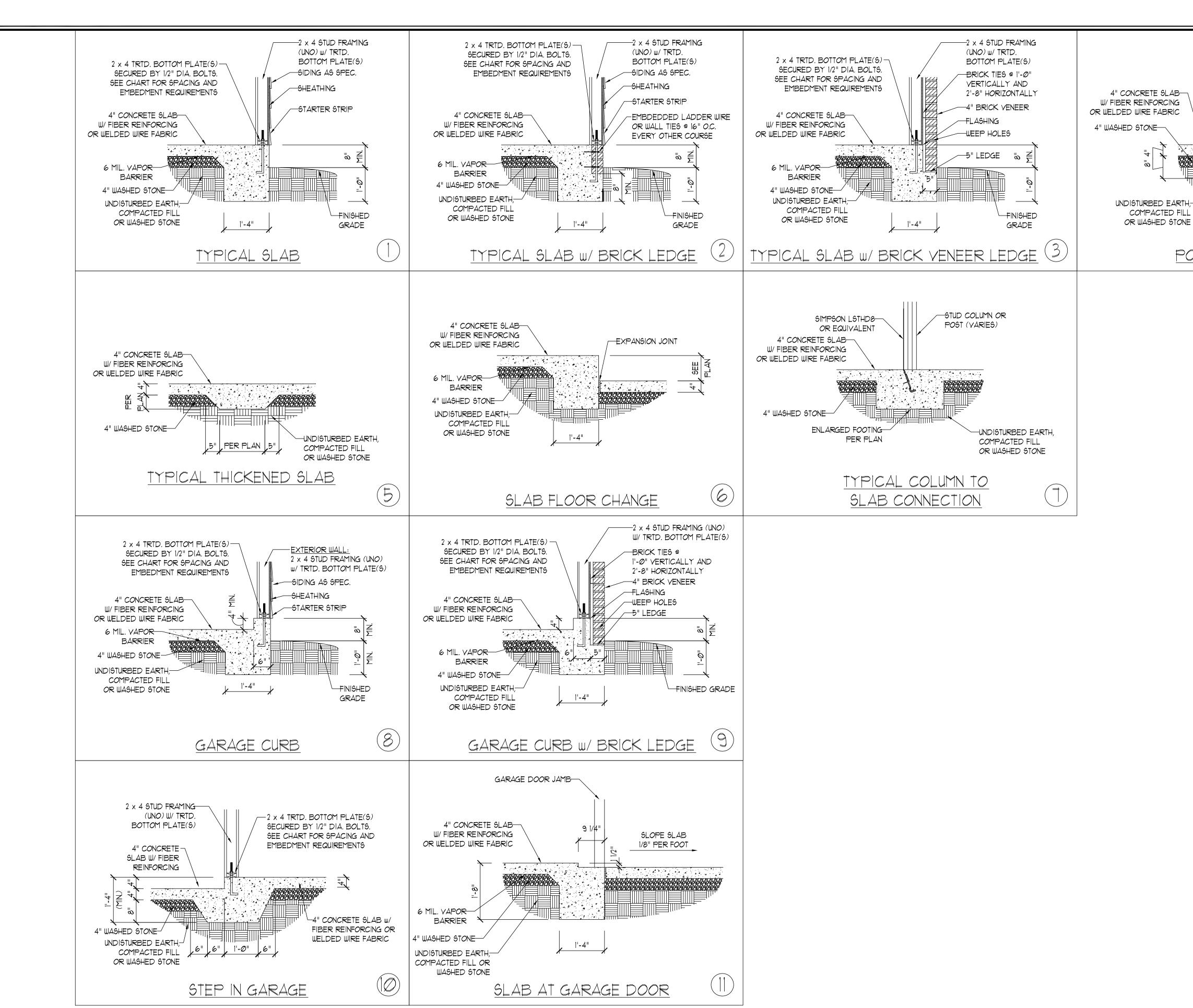
SCALE: 1/4" = 1'-0"

DRAWN BY: ASCOT GROUP

ENGINEERED BY: WFB



S-4
ROOF FRAMING
PLAN



NOTE:

THREADED ROD WITH EPOXY,

TO PROVIDE EQUIVALENT

LIEU OF 1/2" ANCHOR BOLTS.

SIMPSON TITEN HD, OR APPROVED

ANCHORS SPACED AS REQUIRED

ANCHOR BOLTS MAY BE USED IN

ANCHORAGE TO 1/2" DIAMETER

130 MPH

4'-Ø" O.C.

INSTALL MIN. (2) ANCHORS PER

PLATE SECTION AND (1)

ANCHOR WITHIN 12" OF CORNERS

15" INTO MASONRY

7" INTO CONCRETE

ANCHOR SPACING AND EMBEDMENT

120 MPH

6'-Ø" O.C.

INSTALL MIN. (2) ANCHORS PER

PLATE SECTION AND (1)

ANCHOR WITHIN 12" OF CORNERS

7"

WIND ZONE

SPACING

EMBEDMENT

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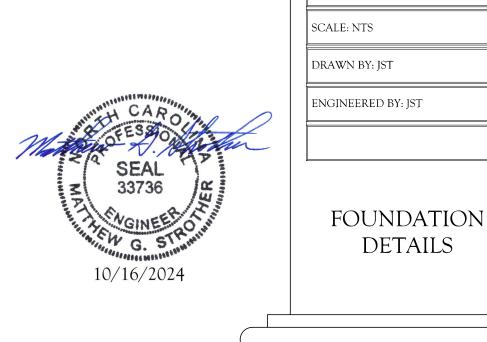
-TREATED POST

POST BASE PER PLAN

-FINISHED GRADE

PER PLAN

PORCH/SCREEN PORCH



ENGINE RADIOS (919) 789-9921
N.C. LICENSE NO.: C.1733

MONOLITHIC SLAB FOUNDATION DETAILS

DATE: AUGUST 30, 2022

STEM WALL FOUNDATION DE

DATE: AUGUST 30, 2022 SCALE: NTS

ENGINEERED BY: JST

DRAWN BY: JST

FOUNDATION **DETAILS** 

MASONRY STEMWALL SPECIFICATIONS MASONRY WALL TYPE WALL HEIGHT 4" BRICK AND 4" BRICK AND (FEET) 8" CMU 12" CMU 2 AND UNGROUTED GROUT SOLID UNGROUTED UNGROUTED BELOW UNGROUTED GROUT SOLID UNGROUTED UNGROUTED GROUT SOLID w/ #4 GROUT SOLID w/#4 GROUT SOLID GROUT SOLID REBAR @ 48" O.C. REBAR @ 64" O.C. GROUT SOLID w/ #4 GROUT SOLID w/ #4 GROUT SOLID w/ #4 NOT APPLICABLE REBAR @ 36" O.C. REBAR @ 36" O.C. REBAR @ 64" O.C. GROUT SOLID w/ #4 GROUT SOLID w/ #4 GROUT SOLID w/ #4 NOT APPLICABLE REBAR @ 24" O.C. REBAR @ 24" O.C. REBAR @ 64" O.C. 7 AND ENGINEERED DESIGN BASED ON SITE CONDITIONS GREATER

## STRUCTURAL NOTES:

- 1) WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
- 2) TIE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.
- 3) CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
- 4) BACKFILL OF CLEAN #57 / #67 WASHED STONE IS ALLOWABLE.
- 5) BACKFILL OF WELL DRAINED OR SAND GRAVEL MIXTURE SOILS (45 PSF/FT BELOW GRADE) CLASSIFIED AS GROUP I ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL CODE ARE ALLOWABLE.
- 6) PREP SLAB PER <u>R506.2.1</u> AND <u>R506.2.2</u> BASE AND <u>EXCEPTION</u> OF 2018 NORTH CAROLINA RESIDENTIAL CODE.
- 1) MINIMUM 24" LAP SPLICE LENGTH.
- 8) LOCATE REBAR IN CENTER OF FOUNDATION WALL.
- 9) WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE "S" MORTAR OR 3000 PSI GROUT. USE OF "LOW LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.

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STEM WALL FDN. DETAIL 1	STEM WALL FDN. W/ BRICK AND CURB (2)
2 x 4 STUD FRAMING (UNO) W/ TRTD. BOTTOM PLATE(S)  2 x 4 TRTD. BOTTOM PLATE(S) SECURED BY 1/2" DIA. BOLTS. SEE CHART FOR SPACING AND EMBEDMENT REQUIREMENTS  4" CONCRETE SLAB W/ FIBER REINFORCING OR WELDED WIRE FABRIC 6 MIL. VAPOR BARRIER 4" WASHED STONE UNDISTURBED EARTH, COMPACTED FILL OR WASHED STONE TOP TWO COURSES OF STEM WALL AND ALL CELLS W/ REINFORCEMENT TO BE FILLED SOLID.  BRICK TIES ® II-Ø" VERTICALLY AND 2'-8" HORIZONTALLY  4" BRICK VENEER FLASHING  FLASHING  LADDER WIRE EVERYMOTHER COURSE COURSE CHART FOR SPACING  10" WALL REINFORCEMENT, SEE CHART FOR SPACING  20" WIDE BY 8" DEEP CONT. CONC. FTG.	2 x 4 STUD FRAMING (UNO) W/ TRTD. BOTTOM PLATE(S)  2 x 4 TRTD. BOTTOM PLATE(S)  5ECURED BY 1/2" DIA. BOLTS.  SEE CHART FOR SPACING AND EMBEDMENT REQUIREMENTS  4" CONCRETE SLAB W/ FIBER REINFORCING OR WELDED WIRE FABRIC  6 MIL. VAPOR BARRIER  4" WASHED STONE UNDISTURBED EARTH, COMPACTED FILL OR WASHED STONE  TOP TWO COURSES OF STEM WALL AND ALL CELLS W/ REINFORCEMENT TO BE FILLED SOLID.  6" CMU BLOCK CHART FOR SPACING FOR OPTIONAL BRICK WATERTABLE. INCREASE TO 20" WIDE BY 8" DEEP CONT. CONT. CONC. FTG.
STEM WALL FDN. W/ BRICK DETAIL (3)	STEM WALL FDN. W/ OPTIONAL BRICK WATERTABLE DETAIL  4

-SIDING AS SPEC.

-LADDER WIRE IN TOP TWO

-OPTIONAL BRICK VENEER

COURSES (W/ VENEER ONLY)

-FINISHED GRADE

EVERY OTHER

-8" CMU BLOCK

COURSE

-WALL REINFORCEMENT, SEE

CHART FOR SPACING

-16" WIDE BY 8" DEEP

CONT. CONC. FTG.

-SHEATHING

2 x 4 STUD FRAMING (UNO) W/ TRTD. BOTTOM PLATE(S)

2 x 4 TRTD. BOTTOM PLATE(S)—

SECURED BY 1/2" DIA. BOLTS.

SEE CHART FOR SPACING AND

THICKENED SLAB-

4" CONCRETE SLAB

6 MIL. VAPOR

UNDISTURBED EARTH,

COMPACTED FILL

OR WASHED STONE

TOP TWO COURSES OF STEM WALL AND-

ALL CELLS W/ REINFORCEMENT TO BE

FILLED SOLID.

BARRIER

W/ FIBER REINFORCING

OR WELDED WIRE FABRIC

4" WASHED STONE

NOT REQUIRED

EMBEDMENT REQUIREMENTS

ANCHOR SPACING AND EMBEDMENT			NOTE:
WIND ZONE	120 MPH	130 MPH	THREADED ROD WITH EPOXY,
SPACING	6'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	4'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	SIMPSON TITEN HD, OR APPROVED ANCHORS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2" DIAMETER ANCHOR BOLTS MAY BE USED IN
EMBEDMENT	7"	15" INTO MASONRY 7" INTO CONCRETE	LIEU OF 1/2" ANCHOR BOLTS.

2 x 4 STUD FRAMING (UNO) W/ TRTD. BOTTOM PLATE(S)

2 x 4 TRTD. BOTTOM PLATE(6)-

SECURED BY 1/2" DIA. BOLTS.

EMBEDMENT REQUIREMENTS

W/ FIBER REINFORCING
OR WELDED WIRE FABRIC

SEE CHART FOR SPACING AND

4" CONCRETE SLAB

6 MIL. VAPOR-BARRIER

UNDISTURBED EARTH,

COMPACTED FILL

OR WASHED STONE

TOP TWO COURSES OF STEM WALL AND-

ALL CELLS W/ REINFORCEMENT TO BE

FILLED SOLID.

OR WELDED WIRE FABRIC

4" WASHED STONE

BRICK TIES @

1'-0" VERTICALLY AND

-LADDER WIRE

EVERY OTHER

-12" CMU BLOCK

COURSE

WALL REINFORCEMENT,

SEE CHART FOR SPACING

2'-8" HORIZONTALLY

-4" BRICK VENEER

**FLASHING** 

-20" WIDE BY 8" DEEP

CONT. CONC. FTG.

WEEP HOLES

ANI BRACING

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

DATE: AUGUST 30, 2022

DRAWN BY: JST

ENGINEERED BY: JST

BRACED WALL NOTES AND DETAILS AND PF DETAIL

TYPICAL EXTERIOR CORNER FRAMING

ORIENTATION OF STUD MAY

BRACED WALL LINE -

FOR CONTINUOUS SHEATHING (5) PER FIGURE R602.10.3(5) MIN. 24" WOOD STRUCTURAL  $\sim$  SEE TABLE R602.3(1) PANEL AN 800 LB HOLD DOWN FOR FASTENING

DEVICE MAY BE INSTALLED IN LIEU OF CORNER RETURN--ORIENTATION OF STUD MAY VARY. SEE FIGURE R602.3(2) 16d NAIL (3 1/2" x -GYPSUM WALLBOARD AS REQUIRED 0.131") @ 12" O.C.\_ AND INSTALLED IN ACCORDANCE WITH CHAPTER 7 (TYP.)

OPTIONAL NON-STRUCTURAL ∕-CONTINUOUS WOOD STRUCTURAL FILLER PANEL -PANEL BRACED WALL LINE SEE TABLE R602.3(1) FOR FASTENING

VARY. SEE FIGURE R602.3(2) 16d NAIL (3 1/2" x 0.131") @ 12" O.C.\_ -CONTINUOUS WOOD STRUCTURAL PANEL BRACED WALL LINE SEE TABLE R602.3(1) GYPSUM WALLBOARD AS FOR FASTENING REQUIRED AND INSTALLED IN

(a) OUTSIDE CORNER DETAIL (50)

ACCORDANCE WITH CHAPTER -MIN. 24" WOOD STRUCTURAL PANEL 7 (TYP.)\_ CORNER RETURN. AN 800 LB HOLD DOWN DEVICE MAY BE INSTALLED IN LIEU OF CORNER RETURN (b) INSIDE CORNER DETAIL (5b) GYPSUM WALLBOARD AS REQUIRED — SEE TABLE R602.3(1) AND INSTALLED IN ACCORDANCE WITH FOR FASTENING CHAPTER 7 (TYP.) 16d NAIL (3 1/2" x

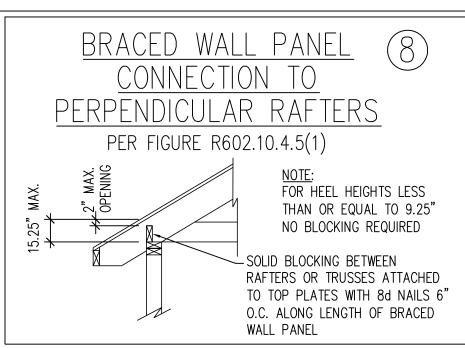
0.131") (2 ROWS @ 24" ∕MIN. 24"WOOD STRUCTURAL SHEATHING PER PLAN PANEL CORNER RETURN. AN 800 LB HOLD DOWN DEVICE MAY BE INSTALLED IN LIEU OF CORNER RETURN CONTINUOUS WOOD STRUCTURAL PANEL FASTENERS ON EACH STUD

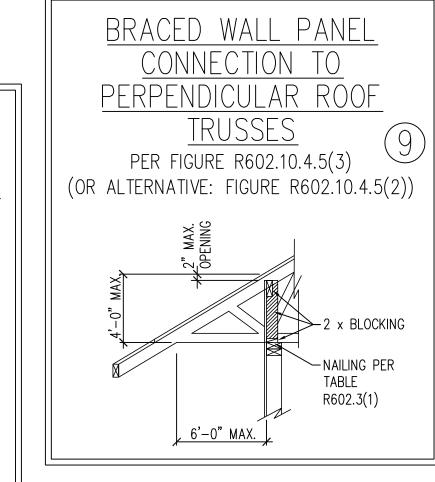
AT EACH PANEL EDGE (c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)

→PONY WALL PER GRADE AND PORTAL FRAME DETAIL — GARAGE HEADER PER PLAN (2) 5'-LONG SIMPSON CS16 STRAPS TOP AND BOTTOM ON VERTICAL STRAPS PER INSIDE FACE OF BEAM TO TIE PORTAL FRAME DETAIL-HEADERS TOGETHER — JACK STUDS SUPPORTING HEADERS PER PLAN PORTAL FRAME CONNECTION DETAIL BETWEEN GARAGE DOOR HEADERS (REFERENCE PORTAL FRAME DETAIL FOR ALL OTHER PORTAL FRAME INFORMATION) PERPENDICULAR RAFTERS PER FIGURE R602.10.4.5(1)

KING STUDS BETWEEN GARAGE

HEADERS PER PLAN-





BRACED WALL PANEL CONNECTION WHEN PARALLEL (6) TO FLOOR/CEILING FRAMING PER FIG. R602.10.4.4(2)

ADDITIONAL FRAMING FULL HEIGHT BLOCKING @ 16" O.C. ALONG LENGTH OF MEMBER DIRECTLY ABOVE BRACED WALL PANEL -CONTINUOUS RIM OR BAND JOIST BRACED WALL PANEL TOE NAIL (3) 8d NAILS AT 8d NAILS @ 6" O.C. ALONG -8d NAILS @ 6" O.C. ALONG EA. BLOCKING MEMBER BRACED WALL PANEL BRACED WALL PANEL -BRACED WALL PANEL BRACED WALL PANEL ✓ BRACED WALL PANEL  $\sim$  (3) 16d NAILS @ 16" -(3) 16d NAILS @ 16" O.C. √(3) 16d NAILS @ 16" O.C. O.C. AT EA. BLOCKING ALONG BRACED WALL PANEL ALONG BRACED WALL PANEL (2) 16d NAILS EA. SIDE FULL HEIGHT BLOCKING @ ADDITIONAL FRAMING CONTINUOUS RIM w/ FINGER 16" O.C. ALONG LENGTH OF MEMBER DIRECTLY BELOW JOISTS OR DBL. BAND JOIST BRACED WALL PANEL BRACED WALL PANEL

←BRACED WALL PANEL REQUIREMENTS  $\sim$  1/2" ANCHOR BOLTS PER BRACED WALL REQUIREMENTS -#4 REBAR FIELD BENT ∼BOND BEAM w/ 6" INTO BOND BEAM (1) #4 REBAR -#4 REBAR FIELD BENT 6" INTO BOND BEAM 3" COVER → 3" COVER → \_\_\_20" LAP SHORT STEM WALL REINFORCEMENT TALL STEM WALL REINFORCEMENT ∕-BRACED WALL PANEL BRACED WALL PANEL ∕-BOND BEAM w/ (1) #4 REBAR √5/8" THREADED RODS MAY BE OPT. FACE SUBSTITUTED FOR ANCHOR BOLTS AND REBAR. 3" COVER → TYPICAL STEM WALL SECTION RODS MAY BE INSTALLED USING AN ADHESIVE **ANCHORING SYSTEM WITH A MINIMUM TENSILE CAPACITY** OF 3750 LBS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECS. OPTIONAL STEM WALL REINFORCEMENT NOTE: GROUT BOND BEAMS AND ALL CELLS WHICH CONTAIN REBAR, THREADED RODS AND ANCHOR BOLTS MASONRY STEM WALLS SUPPORTING

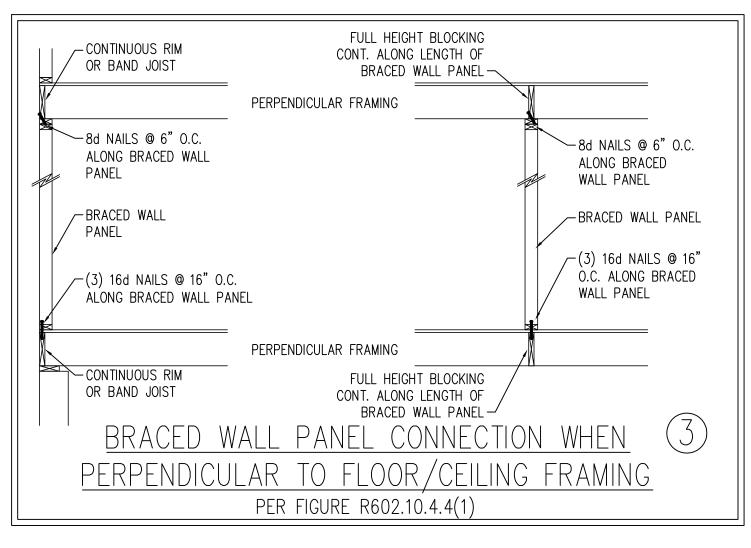
48" OR LESS

48" OR LESS

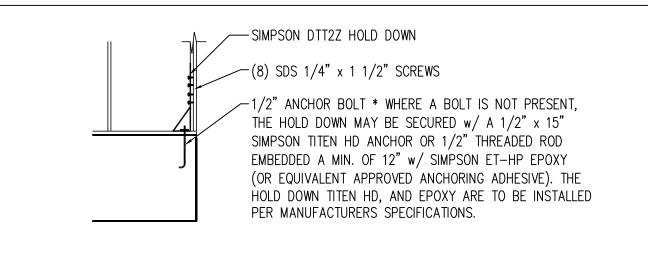
→ BRACED WALL PANEL

 $\sim$ 1/2" ANCHOR BOLTS

PER BRACED WALL



BRACED WALL PANELS



\* APPLICABLE ONLY WHERE SPECIFIED ON PLAN \*

HOLD DOWN DETAIL FOR MASONRY FOUNDATION OR MONOLITHIC SLAB

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-  $\stackrel{\mathsf{WALL}}{\mathsf{EDGE}}$  of Continuous 4' x 8' sheet of sheathing. Install 7/16"  $\longrightarrow$ OSB SHEATHING ON OUTSIDE OF BRACED WALLS (AND INSIDE FACE WHERE NOTED ON THE PLANS). ATTACH OSB WITH 8d NAILS 3" O.C ALONG EDGES, INTERMEDIATE STUDS, AND PLATES. WHERE SHEATHING LAPS HEADER DIRECTLY ABOVE BRACED WALL PANEL, 8d NAILS ARE TO BE SPACED IN A 3" O.C. GRID PATTERN AS SHOWN AND 6" O.C IN THE FIELD ABOVE THE OPENING. INSIDE SHEET(S) (IF INSTALLED) WILL TERMINATE AT THE CEILING LINE (TYP.) FOR A PANEL SPLICE (IF NEEDED), PANEL EDGES SHALL OCCUR OVER AND BE NAILED TO COMMON BLOCKING. ONE ROW OF 8d NAILS @ 3" O.C. ALONG EA. PANEL EDGE. MIN 2 x 4 STUDS WITH PONY WALL HEIGHT UP TO 2' PER MIN 2 x 6 STUDS WITH PONY WALL HEIGHT GREATER THAN 2' PLAN BOTTOM PLATE SECURED BY 1/2" DIA. BOLTS w/ 2" x 2" x 3/16" PLATE WASHERS (MIN.) BOLTS TO BE INSTALLED WITHIN 12" OF THE ENDS OF EACH PLATE (MIN. OF TWO ANCHORS PER PLATE SECTION). FOR MASONRY STEMWALL CONSTRUCTION OPTIONS, SEE FIG. R602.10.4.3 -CONCRETE OR MASONRY BLOCK FOUNDATION. OVER CONCRETE OR MASONRY BLOCK FOUNDATION SIMPSON LTP4 ANCHOR AT EACH END OF THE PORTAL FRAME PANEL -WOOD STRUCTURAL PANEL SHEATHING OVER APPROVED BAND OR RIM JOIST OVER RAISED WOOD FLOOR — FRAMING ANCHOR OPTION \* APPLICABLE w/ GREATER THAN 12" KNEE WALL HEIGHTS IN CRAWL SPACE AND ABOVE FRAMED BASEMENT WALLS \*

METHOD PF-PORTAL FRAME DETAIL (1)

GENERAL WALL BRACING NOTES:

WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND

BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE BEEN

DESIGNED PER R602.3.5 (3). WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT AND SHEAR

SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY

WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS

6. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED. WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED

GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (MIN.) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH

SIDES OF THE BRACED WALL FASTENED WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 7" O.C. ALONG PANEL EDGES INCLUDING

TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (U.N.O.). VERIFY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPSUM

PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R702.3.5. FOR EXTERIOR FASTENER OPTIONS SEE TABLE

REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602. 10.3.

-HEADER PER PLAN CONTINUOUS TO CORNER UNLESS NOTED OTHERWISE ON

STUDS FROM END OF HEADER TO CORNER OF WALL w/ 2 x 12 BLOCKING

PLANS. IF HEADER IS NOT CONTINUOUS TO CORNER, BLOCK BETWEEN

AND CONTINUE NAILING PATTERN AS SHOWN.

─FASTEN TOP PLATE TO HEADER WITH (2)

ROWS OF 16d SINKER NAILS @ 3" O.C.

─(2) SIMPSON CS16 COIL STRAPS w/ 18"

END LENGTHS INSTALLED ON INSIDE OF

METHOD CS-WSP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES .5 ITS ACTUAL LENGTH, AND METHOD PF

5. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE.

7. CS-WSP REFERS TO THE "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 7/16" OSB

SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED w/ 6d COMMON NAILS OR 8d (2 1/2" LONG x 0.113"

SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED

FIGURES REFERENCED ARE FROM THE 2018 NCRC.

FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERED PRACTICE.

R602.3(1). EXTERIOR GB TO BE INSTALLED VERTICALLY.

PER TABLE R702.3.5. METHOD GB TO BE FASTENED PER TABLE R602.10.1

DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (U.N.O.).

33736 10/16/2024



ENGINEERED BY: JST

STRUCTURAL NOTES

DRAWN BY: JST

10/16/2024

## GENERAL NOTES

- 1. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO I-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R301.4 R301.7)

	,	, ,	
DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	L/240 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	10	L/360
DECKS	40	10	L/360
EXTERIOR BALCONIES	40	10	L/360
FIRE ESCAPES	40	10	L/360
HANDRAILS/GUARDRAILS	200	10	L/360
PASSENGER VEHICLE GARAGE	50	10	L/360
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/360
SLEEPING ROOMS	30	10	L/360
STAIRS	40	10	L/360
WIND LOAD	(BASED ON TABLE R301.2(4) WIND ZONE AND EXPOSURE)		
GROUND SNOW LOAD: Pg	20 (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480 - FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- 4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.1.6 OF THE NCRC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

## FOOTING AND FOUNDATION NOTES

- 1. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP 1, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC, 2018 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" — 1" DEEP CONTROL JOINTS ARE TO BE SAWED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NCRC, 2018 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A185. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEFL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 1/2" FOR #5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR #6 BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C270.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS. PERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR S MORTAR. PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY.
- 7. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING. EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(1), R404.1.1(2), R404.1.1(3), OR R404.1.1(4) OF THE NCRC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(5) OF THE NCRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

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- 1. ALL FRAMING LUMBER SHALL BE #2 SPF MINIMUM (Fb = 875 PSI, Fv = 375 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE #2 SYP MINIMUM (Fb = 975 PSI, Fv = 175 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO).
- 2. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2600 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E =1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 2000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.

FRAMING NOTES

STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

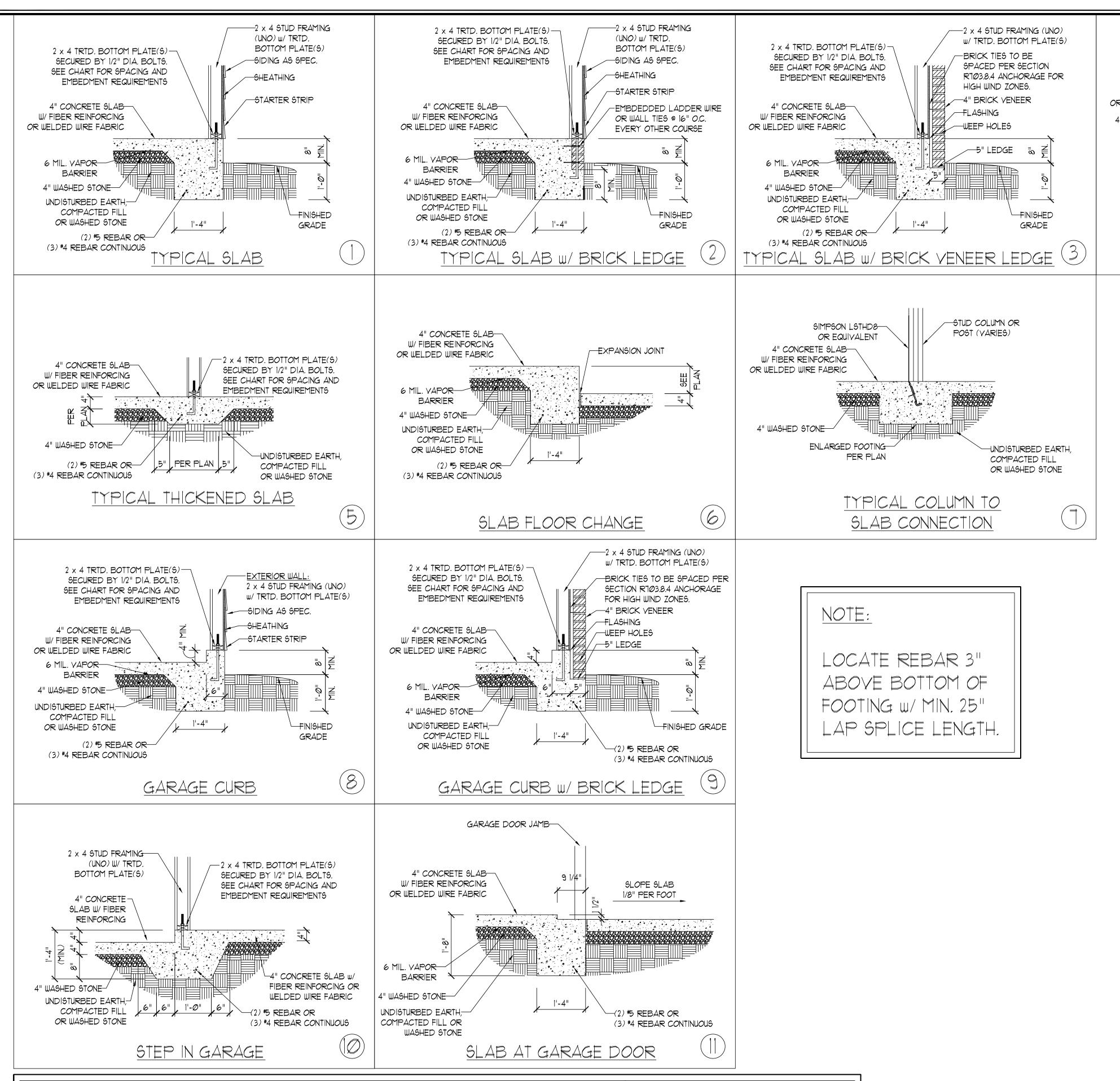
W AND WT SHAPES: ASTM A992 CHANNELS AND ANGLES: ASTM A36 PLATES AND BARS: ASTM A36 ASTM A500 GRADE B HOLLOW STRUCTURAL SECTIONS: ASTM A53, GRADE B, TYPE E OR S STEEL PIPE:

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH (UNO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (UNO):

A. WOOD FRAMING (2) 1/2" DIA. x 4" LONG LAG SCREWS (2) 1/2" DIA. x 4" WEDGE ANCHORS B. CONCRETE (2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS C. MASONRY (FULLY GROUTED) (4) 3/4" DIA. A325 BOLTS OR 3/16" FILLET WELD D. STEEL PIPE COLUMN

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM w/(2) ROWS OF SELF TAPPING SCREWS @ 16" O.C. OR (2) ROWS OF 1/2" DIAMETER BOLTS @ 16" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED w/ (2) ROWS OF 9/16" DIAMETER HOLES @ 16" O.C.

- 5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE POINT LOADS FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- 6. ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE NCRC, 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH END (UNO), WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO). INSTALL KING STUDS PER SECTION R602.7.5 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 7. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINIMUM BEARING (UNO). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO).
- 9. ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 10. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R602.10.
- 11. PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I-JOISTS PER MANUFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- 12. FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (U.N.O). FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO HEADER WITH 1/2" LAG SCREWS AT 12" O.C. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING INSTALLED w/ (4) 12d NAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R703.8.2.1 OF THE NCRC, 2018 EDITION.
- 13. FOR STICK FRAMED ROOFS: CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (UNO).
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).
- 15. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON H6 OR LTS12 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON CS16 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.



150 MPH

ANCHOR SPACING AND EMBEDMENT

140 MPH

6'-0" O.C. w/ DBL. SILL PLATE OR 1'-9" O.C w/

SINGLE SILL PLATE w/ 2" x 2" x 1/8" WASHERS

INSTALL MIN. (2) ANCHORS PER PLATE SECTION

AND (1) ANCHOR WITHIN 12" OF CORNERS

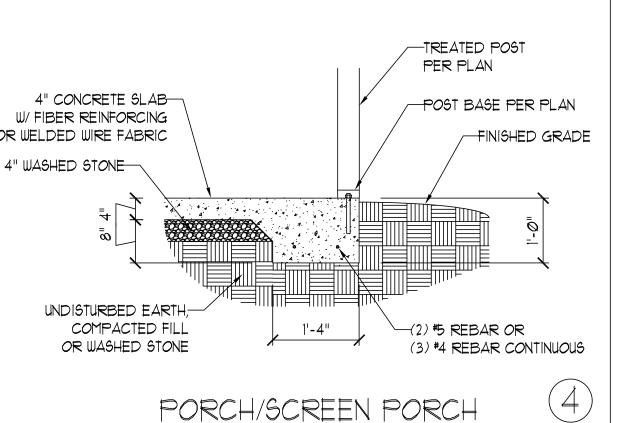
WIND ZONE

SPACING

EMBEDMENT

NOTE: THREADED ROD WITH EPOXY, SIMPSON TITEN HD, OR APPROVED 6'-0" O.C. w/ DBL. SILL PLATE OR 1'-6" O.C w/ ANCHORS SPACED AS REQUIRED SINGLE SILL PLATE W/ 2" x 2" x 1/8" WASHERS TO PROVIDE EQUIVALENT INSTALL MIN. (2) ANCHORS PER PLATE SECTION ANCHORAGE TO 1/2" DIAMETER AND (1) ANCHOR WITHIN 12" OF CORNERS ANCHOR BOLTS MAY BE USED IN LIEU OF 1/2" ANCHOR BOLTS.

-TREATED POST PER PLAN 4" CONCRETE SLAB POST BASE PER PLAN W/ FIBER REINFORCING OR WELDED WIRE FABRIC -FINISHED GRADE 4" WASHED STONE UNDISTURBED EARTH, COMPACTED FILL -(2) #5 REBAR OR OR WASHED STONE (3) #4 REBAR CONTINUOUS



Z:\CAD Drawings\Details and Notes\Foundation Details\Mono slab foundation details\_HIGH WIND\_8-22.dwg, 8/30/2022 2:05:13 PM, Craig Amos

SPEED WIND DETA DESIGN V DATION I ULTIMATE I SLAB FOUNI 140 MPH - 150 MPH MONOLITHIC

SEAL 33736 10/16/2024 DATE: AUGUST 30, 2022 SCALE: NTS DRAWN BY: JST ENGINEERED BY: JST

FOUNDATION

DETAILS

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SCALE: NTS DRAWN BY: JST

ENGINEERED BY: JST

FOUNDATION

DETAILS

MASONRY STEMWALL SPECIFICATIONS MASONRY WALL TYPE WALL HEIGHT 4" BRICK AND 4" BRICK AND (FEET) 8" CMU 2 AND UNGROUTED GROUT SOLID UNGROUTED UNGROUTED BELOW UNGROUTED GROUT SOLID UNGROUTED UNGROUTED GROUT SOLID w/ #4 GROUT SOLID w/ #4 GROUT SOLID GROUT SOLID REBAR @ 48" O.C. REBAR @ 64" O.C. GROUT SOLID w/ #4 GROUT SOLID w/ #4 GROUT SOLID w/ #4 NOT APPLICABLE REBAR @ 36" O.C. REBAR @ 36" O.C. REBAR @ 64" O.C GROUT SOLID w/ #4 GROUT SOLID w/ #4 GROUT SOLID w/ #4 NOT APPLICABLE 6 REBAR @ 24" O.C. REBAR @ 64" O.C. REBAR @ 24" O.C. 7 AND ENGINEERED DESIGN BASED ON SITE CONDITIONS GREATER STRUCTURAL NOTES: 1) WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL 2) TIE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.

- 3) CHART APPLICABLE FOR HOUSE FOUNDATION ONLY. CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
- 4) BACKFILL OF CLEAN #51 / #61 WASHED STONE IS ALLOWABLE.
- 5) BACKFILL OF WELL DRAINED OR SAND GRAVEL MIXTURE SOILS (45 PSF/FT BELOW GRADE) CLASSIFIED AS GROUP I ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL CODE ARE ALLOWABLE.
- 6) PREP SLAB PER R506.2.1 AND R506.2.2 BASE AND EXCEPTION OF 2018 NORTH CAROLINA RESIDENTIAL CODE.
- 1) MINIMUM 24" LAP SPLICE LENGTH.
- 8) LOCATE REBAR IN CENTER OF FOUNDATION WALL.
- 9) WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE "S" MORTAR OR 3000 PSI GROUT. USE OF "LOW LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.

-SIDING AS SPEC. DBL 2 x 4 TRTD. BOTTOM PLATES -SECURED BY 1/2" DIA. BOLTS. -FLASHING SEE CHART FOR SPACING AND OPTIONAL 4" BRICK EMBEDMENT REQUIREMENTS VENEER WATERTABLE WEEP HOLES 4" CONCRETE SLAB W/ FIBER REINFORCING
OR WELDED WIRE FABRIC 6 MIL. VAPOR-BARRIER 4" WASHED STONE UNDISTURBED EARTH, -8" CMU SOLID COMPACTED FILL OR WASHED STONE FILLED STEM WALL FND. -1/2" THREADED ROD CONTINUOUS TO FOOTING. 24" WIDE BY 8" DEEP CONT. SEE CHART FOR SPACING CONC. FTG. w/(3) \*4 REBAR CONT. OR (2) \*5 REBAR CONT. AND EMBEDMENT REQ.

STEM WALL FDN. W/ BRICK AND CURB (2)

2 x 4 STUD FRAMING (UNO) W/ TRTD. BOTTOM PLATES

DBL 2 x 4 TRTD. BOTTOM PLATES-

4" CONCRETE SLAB

6 MIL. VAPOR BARRIER

UNDISTURBED EARTH;

COMPACTED FILL

OR WASHED STONE

4" WASHED STONE

SECURED BY 1/2" DIA. BOLTS.

SEE CHART FOR SPACING AND

EMBEDMENT REQUIREMENTS

4" CONCRETE JUAN
W/ FIBER REINFORCING
OR WELDED WIRE FABRIC

24" WIDE BY 8" DEEP CONT .-

CONC. FTG. w/(3) #4 REBAR

CONT. OR (2) #5 REBAR CONT.

2 x 4 STUD FRAMING (UNO)

W/ TRTD. BOTTOM PLATES

STEM WALL FDN. W/ OPTIONAL BRICK WATERTABLE DETAIL

(4)

-BRICK TIES TO BE SPACED PER

LADDER WIRE

EVERY OTHER

-12" CMU SOLID

FILLED STEM

COURSE

WALL FND.

SECTION RTØ3.8.4 ANCHORAGE

FOR HIGH WIND ZONES.

-4" BRICK VENEER

FLASHING

WEEP HOLES

1/2" THREADED ROD

CONTINUOUS TO FOOTING.

AND EMBEDMENT REQ.

SHEATHING

SEE CHART FOR SPACING

	ANCHOR SPACING AND EN	NOTE:	
WIND ZONE	140 MPH	150 MPH	THREADED ROD WITH EPOXY OR
SPACING	1'-9" O.C. w/ DBL. SILL PLATE w/ 2" x 2" x 1/8" WASHERS INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	1'-6" O.C. w/ DBL. SILL PLATE w/ 2" x 2" x 1/8" WASHERS INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	APPROVED ANCHORS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2" DIAMETER ANCHOR BOLTS MAY BE USED IN LIEU OF 1/2" ANCHOR
EMBEDMEN	T RODS CONTINUOUS FROM FOOTING UP THROUGH SILL PLATE W/ 7" MINIMUM CONCRETE EMBEDMENT	RODS CONTINUOUS FROM FOOTING UP THROUGH SILL PLATE W/ 7" MINIMUM CONCRETE EMBEDMENT	BOLTS.

3

2 x 4 STUD FRAMING (UNO)— W/ TRTD. BOTTOM PLATES

-SIDING AS SPEC.

-LADDER WIRE IN TOP TWO

-OPTIONAL BRICK VENEER

COURSES (W/ VENEER ONLY)

-FINISHED GRADE

LADDER WIRE

EVERY OTHER

-8" CMU SOLID

FILLED STEM

WALL FND.

-1/2" THREADED ROD

CONTINUOUS TO FOOTING.

SEE CHART FOR SPACING

-BRICK TIES TO BE SPACED PER

ADDER WIRE

EVERY OTHER

-12" CMU SOLID

FILLED STEM

WALL FND.

1/2" THREADED ROD CONTINUOUS TO FOOTING.

SEE CHART FOR SPACING

AND EMBEDMENT REQ.

COURSE

SECTION RTØ3.8.4 ANCHORAGE

FOR HIGH WIND ZONES.

-4" BRICK VENEER

-FLASHING

-WEEP HOLES

AND EMBEDMENT REQ.

COURSE

-SHEATHING

DBL 2 x 4 TRTD. BOTTOM PLATES-

SECURED BY 1/2" DIA. BOLTS.

SEE CHART FOR SPACING AND

THICKENED SLAB

4" CONCRETE SLAB W/ FIBER REINFORCING

UNDISTURBED EARTH

COMPACTED FILL

24" WIDE BY 8" DEEP CONT.

CONC. FTG. w/ (3) #4 REBAR

STEM WALL FON. DETAIL

CONT. OR (2) #5 REBAR CONT.

2 x 4 STUD FRAMING (UNO)—

W/ TRTD. BOTTOM PLATES

DBL 2 x 4 TRTD. BOTTOM PLATES -

SECURED BY 1/2" DIA. BOLTS.

EMBEDMENT REQUIREMENTS

SEE CHART FOR SPACING AND

4" CONCRETE SLAB

6 MIL. VAPOR

UNDISTURBED EARTH

COMPACTED FILL OR WASHED STONE

24" WIDE BY 8" DEEP CONT.-

CONC. FTG. w/ (3) #4 REBAR

STEM WALL FDN. W/ BRICK DETAIL

CONT. OR (2) #5 REBAR CONT.

W/ FIBER REINFORCING

OR WELDED WIRE FABRIC

4" WASHED STONE

OR WASHED STONE

OR WELDED WIRE FABRIC

4" WASHED STONE

NOT REQUIRED

BARRIER

EMBEDMENT REQUIREMENTS

NOTE:

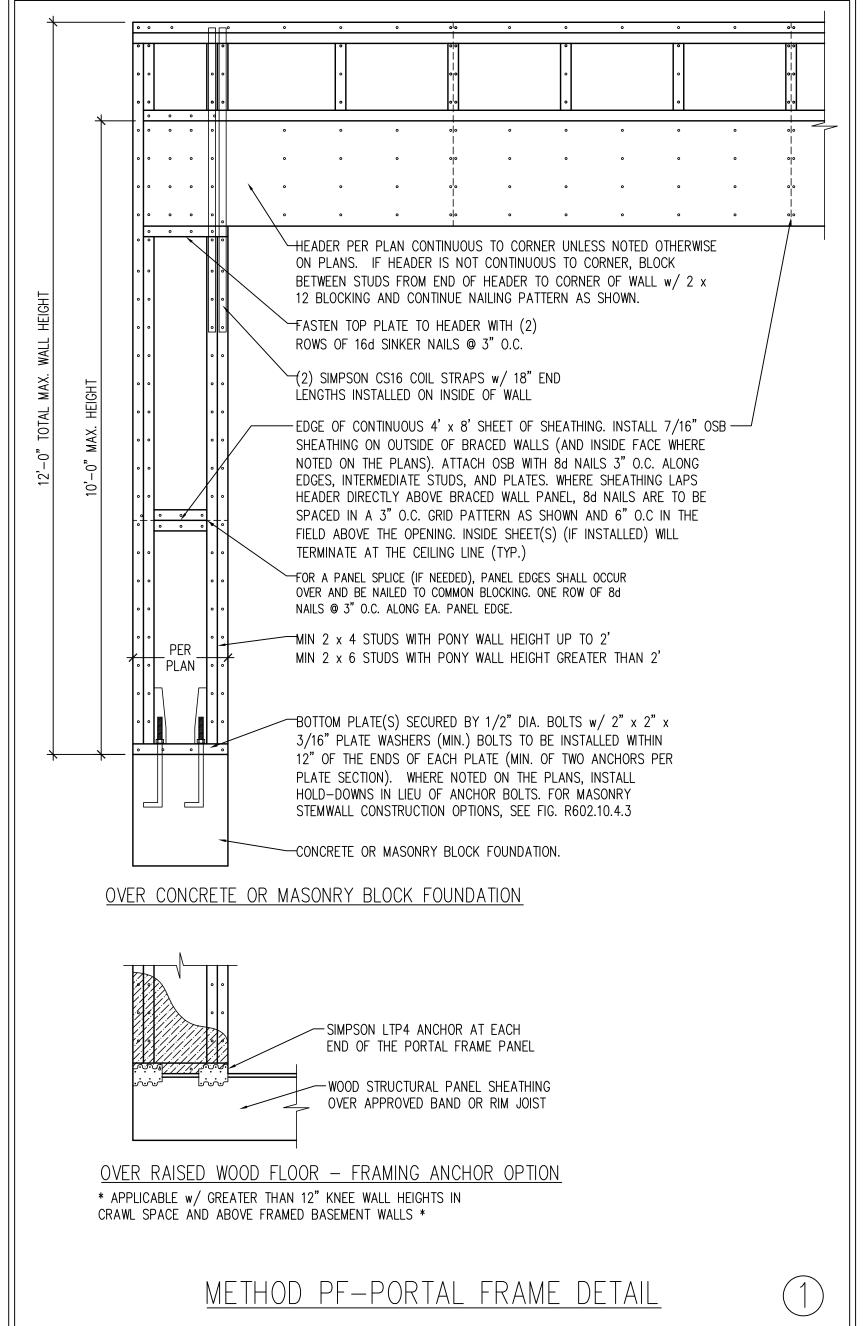
LOCATE REBAR 3" ABOVE BOTTOM OF FOOTING W/MIN. 25" LAP SPLICE LENGTH.

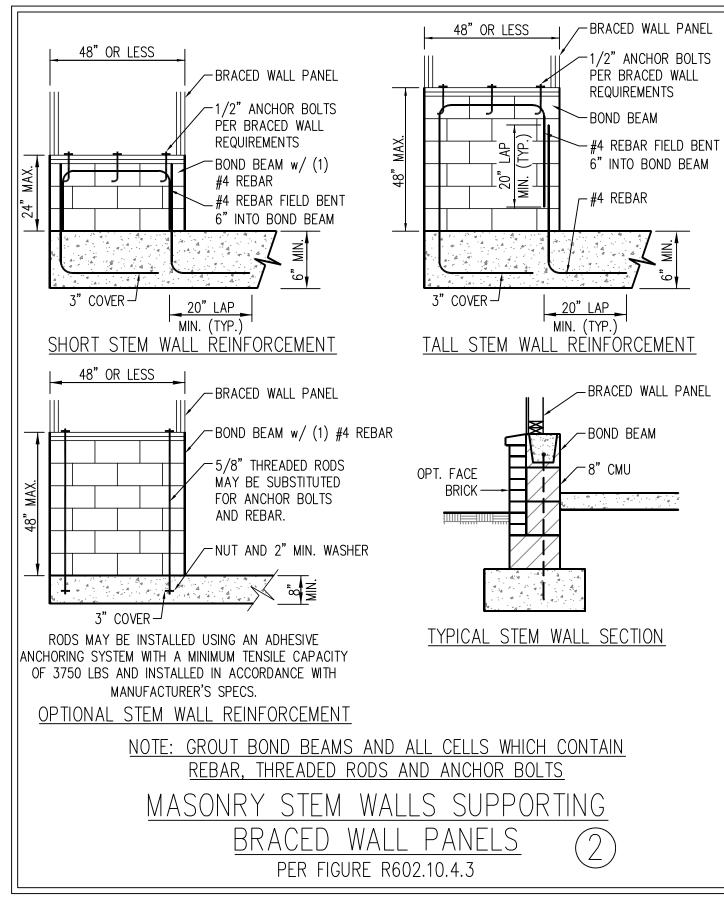


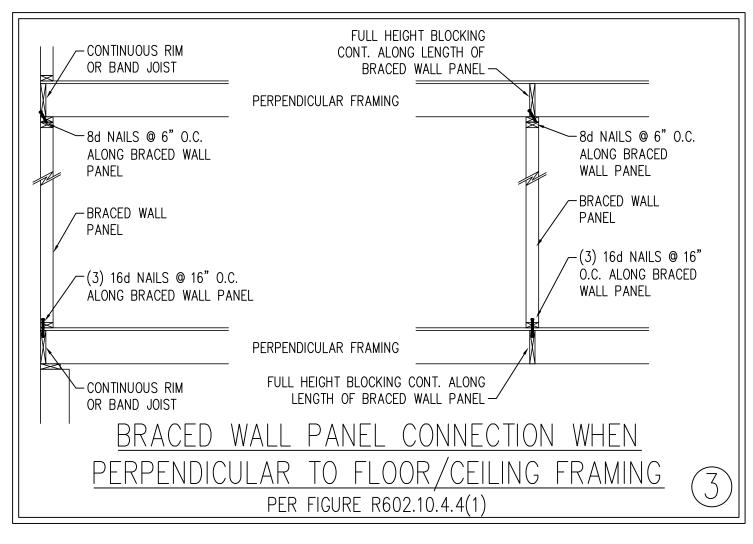
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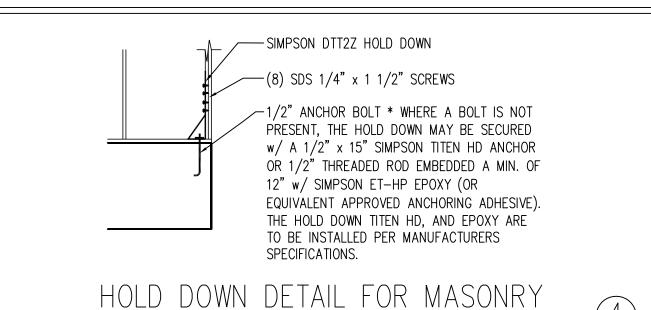
under N.C. Statute § 89C-23

- 1. WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 AND CHAPTER 45 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.
- 2. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED. 3. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS. AND ANY SPECIAL NOTES OR REQUIREMENTS
- 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH 7/16" OSB WITH BLOCKING AT ALL SHEATHING JOINTS AND 8d NAILS AT 3" O.C. ALONG EDGES AND 6" O.C. IN THE FIELD UNLESS NOTED OTHERWISE
- 5. SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BAND JOISTS, AND GIRDERS WITH (2) ROWS OF 8d NAILS STAGGERED AT 3" O.C.. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND SILL PLATES THEIR FULL DEPTH.
- 6. ALL EXTERIOR WALLS TO BE SHEATHED ON INSIDE FACE WITH 1/2" GYPSUM BOARD PER TABLE R702.3.5 (UNO)





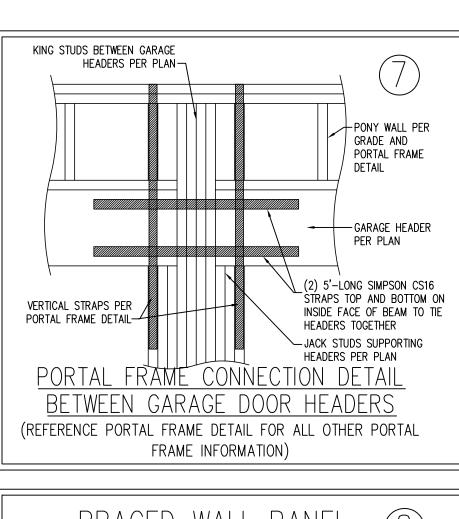


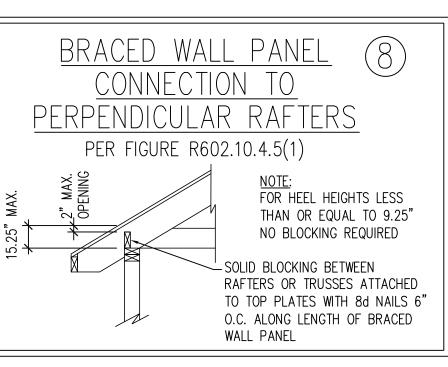


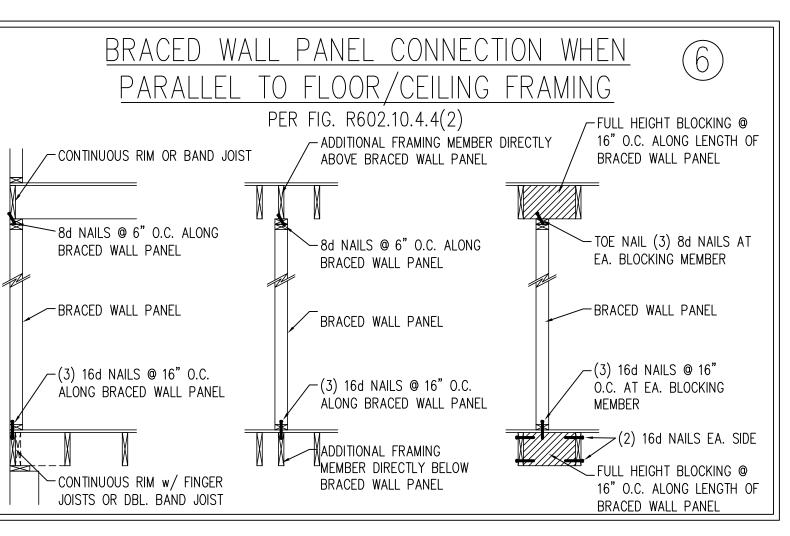
FOUNDATION OR MONOLITHIC SLAB \* APPLICABLE ONLY WHERE SPECIFIED ON PLAN \*

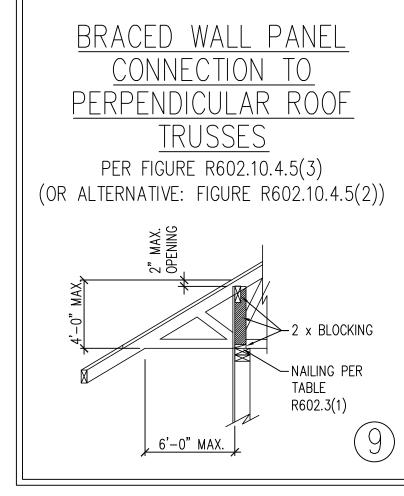
TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING PER FIGURE R602.10.3(5) MIN. 24" WOOD STRUCTURAL  $\sim$  SEE TABLE R602.3(1) PANEL AN 800 LB HOLD DOWN FOR FASTENING DEVICE MAY BE INSTALLED IN LIEU OF CORNER RETURN--ORIENTATION OF STUD MAY VARY. SEE FIGURE R602.3(2) 16d NAIL (3 1/2" x -GYPSUM WALLBOARD AS REQUIRED 0.131") @ 12" O.C.\_ AND INSTALLED IN ACCORDANCE WITH CHAPTER 7 (TYP.) OPTIONAL NON-STRUCTURAL  $\sim$  CONTINUOUS WOOD STRUCTURAL FILLER PANEL -PANEL BRACED WALL LINE SEE TABLE R602.3(1) FOR FASTENING (a) OUTSIDE CORNER DETAIL (50) ORIENTATION OF STUD MAY VARY. SEE FIGURE R602.3(2) 16d NAIL (3 1/2" x 0.131") @ 12" O.C.\_ -CONTINUOUS WOOD STRUCTURAL PANEL BRACED WALL LINE "SEE TABLE R602.3(1) GYPSUM WALLBOARD AS FOR FASTENING REQUIRED AND INSTALLED IN ACCORDANCE WITH CHAPTER -MIN. 24" WOOD STRUCTURAL PANEL 7 (TYP.)\_ CORNER RETURN. AN 800 LB HOLD DOWN DEVICE MAY BE INSTALLED IN LIEU OF CORNER RETURN (b) Inside corner detail (5b)GYPSUM WALLBOARD AS REQUIRED  $\sim$  SEE TABLE R602.3(1) AND INSTALLED IN ACCORDANCE WITH FOR FASTENING CHAPTER 7 (TYP.) 16d NAIL (3 1/2" x 0.131") (2 ROWS @ 24" ∕-MIN. 24"WOOD STRUCTURAL SHEATHING PER PLAN PANEL CORNER RETURN. AN 800 LB HOLD DOWN DEVICE MAY BE INSTALLED IN LIEU OF CORNER RETURN CONTINUOUS WOOD STRUCTURAL PANEL FASTENERS ON EACH STUD BRACED WALL LINE -AT EACH PANEL EDGE (c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL

STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)

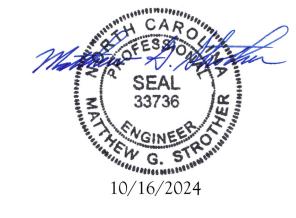








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SPE WIND ETAILS MPH ULTIMATE BRACING NOTES MPH - 150 | WALL ! 40

DATE: AUGUST 30, 2022

SCALE: NTS DRAWN BY: JST

ENGINEERED BY: JST

D-2 BRACED WALL NOTES AND DETAILS AND PF DETAIL

#### GENERAL NOTES

- 1. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO I—JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R301.4 R301.7)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	L/240 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	10	L/360
DECKS	40	10	L/360
EXTERIOR BALCONIES	40	10	L/360
FIRE ESCAPES	40	10	L/360
HANDRAILS/GUARDRAILS	200	10	L/360
PASSENGER VEHICLE GARAGE	50	10	L/360
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/360
SLEEPING ROOMS	30	10	L/360
STAIRS	40	10	L/360
WIND LOAD	(BASED ON TABLE R301.2(4) WIND ZONE AND EXPOSURE)		
GROUND SNOW LOAD: Pg	20 (PSF)	,	

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
   FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- 4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.1.6 OF THE NCRC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

### FOOTING AND FOUNDATION NOTES

- 1. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL—DRAINED OR SAND—GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP 1, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC, 2018 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" 1" DEEP CONTROL JOINTS ARE TO BE SAWED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NCRC, 2018 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A185. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 1/2" FOR #5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR #6 BARS OR LARGER.

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- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C270.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS. PERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR S MORTAR. PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY.
- 7. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING. EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68—A OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(1), R404.1.1(2), R404.1.1(3), OR R404.1.1(4) OF THE NCRC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(5) OF THE NCRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

FRAMING NOTES

- 1. ALL FRAMING LUMBER SHALL BE #2 SPF MINIMUM (Fb = 875 PSI, Fv = 375 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE #2 SYP MINIMUM (Fb = 975 PSI, Fv = 175 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO).
- 2. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2600 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E = 1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 2000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

Α.	W AND WT SHAPES:	ASTM A992
B.	CHANNELS AND ANGLES:	ASTM A36
C.	PLATES AND BARS:	ASTM A36
D.	HOLLOW STRUCTURAL SECTIONS:	ASTM A500 GRADE B
E.	STEEL PIPE:	ASTM A53, GRADE B, TYPE E OR

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH (UNO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (UNO):

Α.	WOOD FRAMING	(2) 1/2" DIA. x 4" LONG LAG SCREWS
В.	CONCRETE	(2) 1/2" DIA. x 4" WEDGE ANCHORS
C.	MASONRY (FULLY GROUTED)	(2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS
D.	STEEL PIPE COLUMN	(4) 3/4" DIA. A325 BOLTS OR 3/16" FILLET WELD

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM w/(2) ROWS OF SELF TAPPING SCREWS @ 16" O.C. OR (2) ROWS OF 1/2" DIAMETER BOLTS @ 16" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED w/(2) ROWS OF 9/16" DIAMETER HOLES @ 16" O.C.

- 5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE POINT LOADS FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- 6. ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE NCRC, 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH END (UNO), WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO). INSTALL KING STUDS PER SECTION R602.7.5 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 7. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINIMUM BEARING (UNO). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO).
- 9. ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 10. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R602.10.
- 11. PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I—JOISTS PER MANUFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- 12. FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (U.N.O). FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO HEADER WITH 1/2" LAG SCREWS AT 12" O.C. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING INSTALLED w/ (4) 12d NAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R703.8.2.1 OF THE NCRC, 2018 EDITION.
- 13. FOR STICK FRAMED ROOFS: CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (UNO).
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).
- 15. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON H6 OR LTS12 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON CS16 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

ANDARD STRUCTURAL NOTES

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DRAWN BY: JST

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