TOPSAIL

TOPSAIL REVISION LIST - STRUCTURAL:

- 1.) ADDED I-JOIST SERIES AND SPACING TO SECOND FLOOR FRAMING AND CRAWL (10-17)
- 2.) REMOVED BEDROOM VAULTS AND BALLOON FRAMING (10-17)
- 3.) CHANGED STANDARD HEADER SIZE TO 2 x 6. CALLED OUT 2 x 10 WHERE NECESSARY (10-17)
- 4.) CHANGED TO (3) PLY GARAGE HEADERS (10-17)
- 5.) CODE UPDATE TO NCRC 2018 (1-19)

Inventory Marked Plan

lot 52 Williams Farm

TOPSAIL REVISION LIST - ARCHITECTURAL:

CHANGES ON 03-30-2020

- 1. CHANGED ALL CORNER BOARDS ON ELEVATIONS FROM 6" TO 4"
- 2. CHANGED NOTE FOR GARAGE LABEL ON ELEVATIONS
- 3. REMOVED GRIDS FROM ALL WINDOWS & DOORS ON SIDES AND REAR ELEVATIONS
- 4. UPDATED ALL COACH LIGHTS ON ELEVATIONS
- 5. REMOVED DUPLICATE DIMENSIONS AND LABELS FROM ALL ELEVATIONS
- 6. DIMENSIONED STONE/BRICK WATER TABLE HEIGHT
- 7. HATCHED 4" ROWLOCK ON WINDOWS IN ELEVATIONS WITH STONE AND BRICK
- 8. UPDATED STONE HATCH TO CURRENT HATCH
- 9. ADDED COLUMN DETAILS ON B-1 AND B-4 ELEVATIONS
- 10. REMOVED HARDWARE ON SHUTTERS ON ALL C ELEVATIONS. CHANGED TO SHOW B&B
- 11. SEPARATED ALL OPTIONS FROM BASE PLAN TO CORRESPONDING SHEETS
- 12. ADDED DIAGONAL DIMENSION ON SLAB INTERFACE PLAN
- 13. ADDED PLUMBING DROPS TO SLAB INTERFACE PLAN
- 14. ADDED CONDUIT IN KITCHEN OF THE SLAB INTERFACE PLAN
- 15. CHANGED COLUMN ON PATIO TO 8"x8"
- 16. CHANGED EXTERIOR WALLS FROM 2x6 TO 2x4 EXCEPT AT SHADED AREAS
- REMOVED ALL 2x6 NOTE
- 20. UPDATED ALL INTERIOR ROOM DIMENSIONS
- 21. ADDED HOSE BIBS TO PLANS
- 22. UPDATED SQUARE FOOTAGES
- 23. ADDED SQUARE FOOTAGE WITH FULL BRICK VENEER
 24. PATIO CHANGED TO 12'x10'
- 25. FLIPPED TUB AND REMOVED ACCESS AND NOTE FROM OWNER'S BATH 1
- 26. ADDED NOTE TO LAUNDRY
- 27. ADDED OPTIONAL FLOOR OUTLETS28. REMOVED ALL OUTLETS ON ELECTRICAL PLAN (EXCEPT OPT. FLOOR OUTLETS)
- 29. REMOVED ALL TV OUTLETS
- 30. REMOVED ALL PHONE OUTLETS
- 31. SHOWED ALL CEILING FANS DASHED WITH NEW NOTE 32. ADDED CO2 DETECTORS
- 33. ADDED NEW ELECTRICAL KEY
- 34. CHANGED SWING OF SERVICE DOOR (7-8-20)
- 35. CHANGED LIGHT IN GARAGE FROM KEYLESS TO CEILING MOUNT (7-8-20)
- 36. CHANGED KITCHEN LIGHT FROM 2 BULB FLUORESCENT TO 3 BULB CEILING MOUNT (7-8-20)
- 37. CHANGED LIGHT OVER KITCHEN SINK TO 1 BULB CEILING MOUNT (7-8-20)
- 38. REMOVED LIGHT IN SECONDARY BATH OVER TUB/SHOWER COMB (7-8-20)



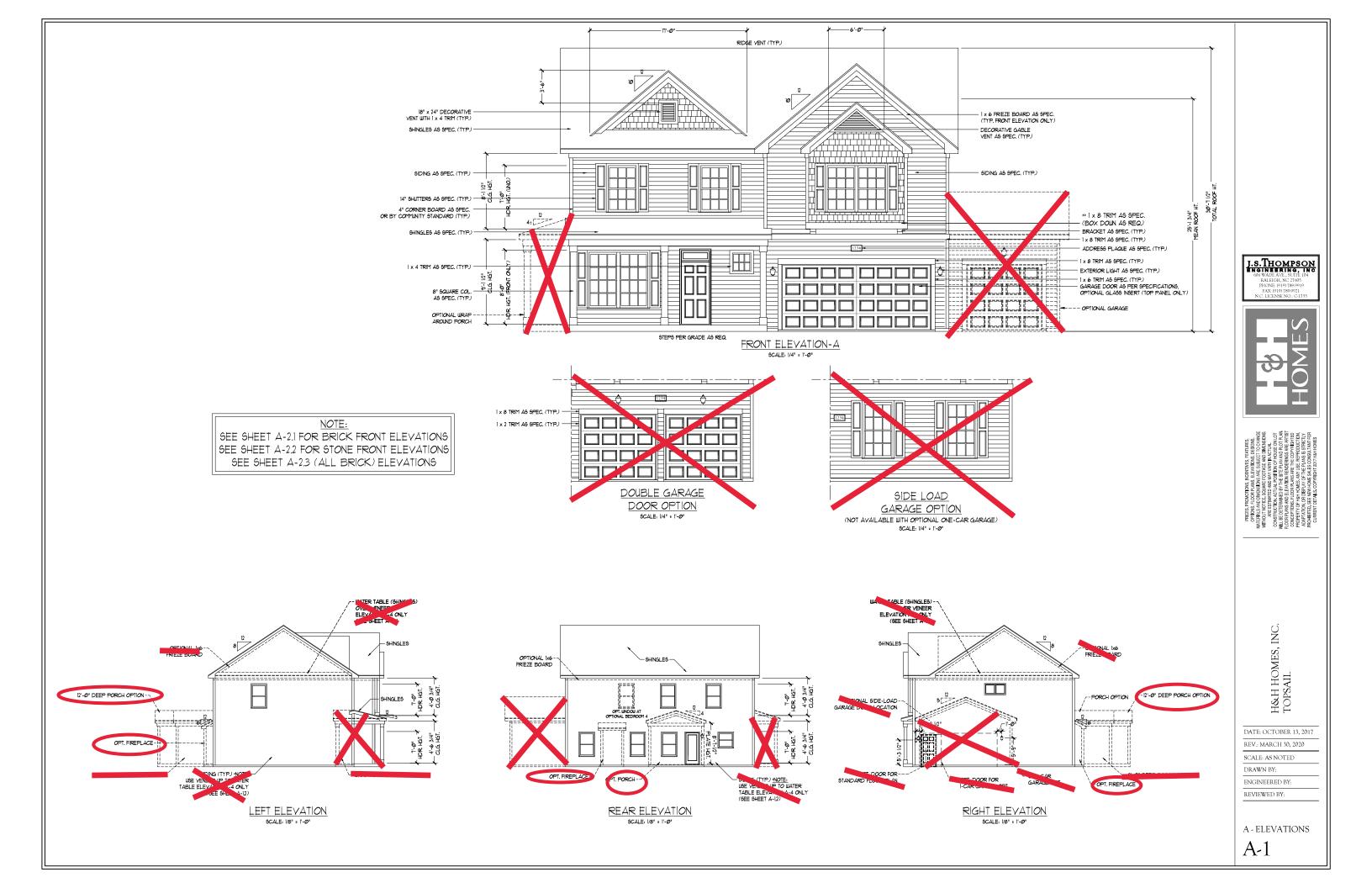
COVER SHEET

H&H HOME

DATE: OCTOBER 13, 201 REV.: MARCH 30, 2020 DRAWN BY: WG

ENGINEERED BY:







J.S.THOMPSON ENGINEERING, INC



H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017 REV.: MARCH 30, 2020

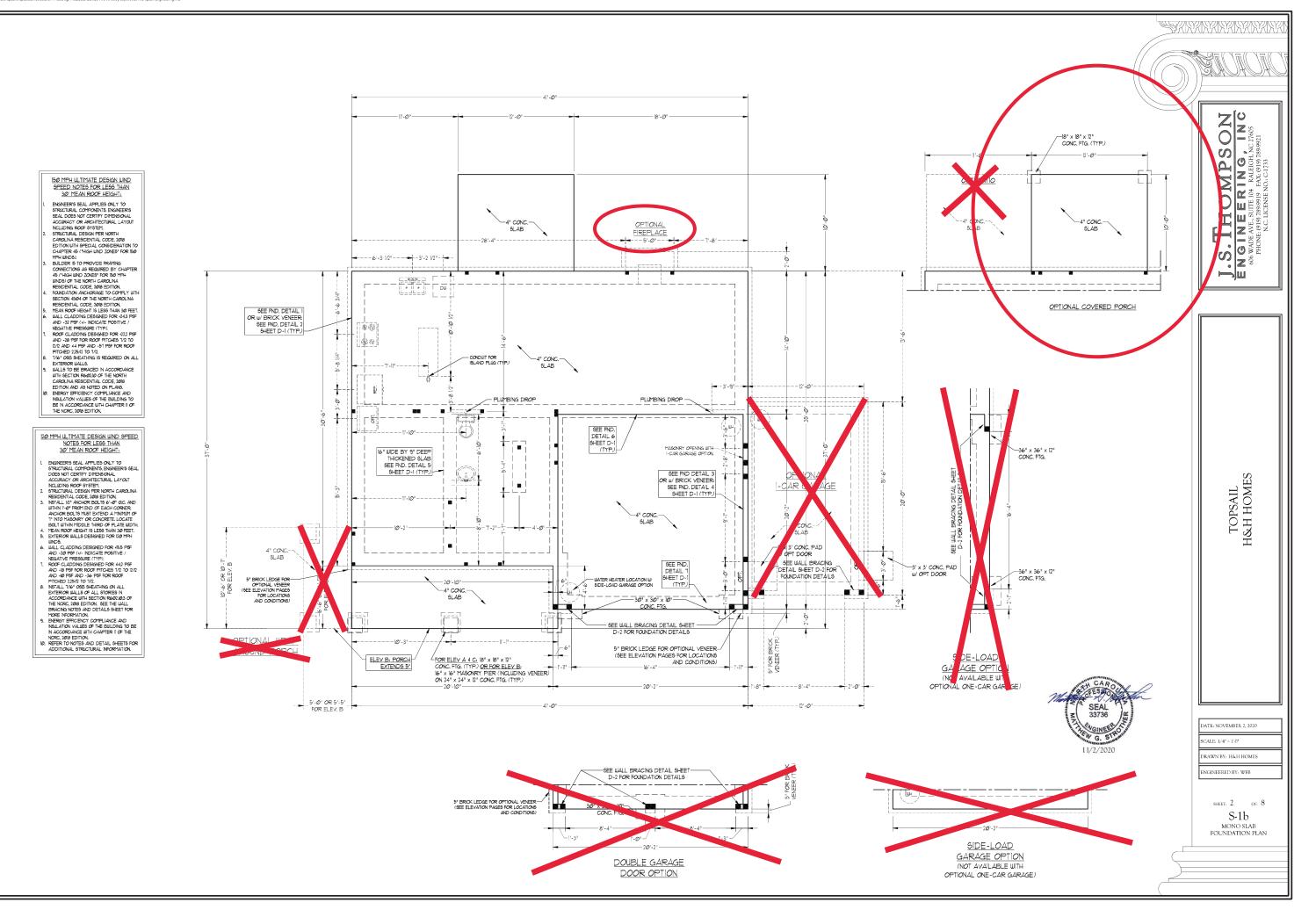
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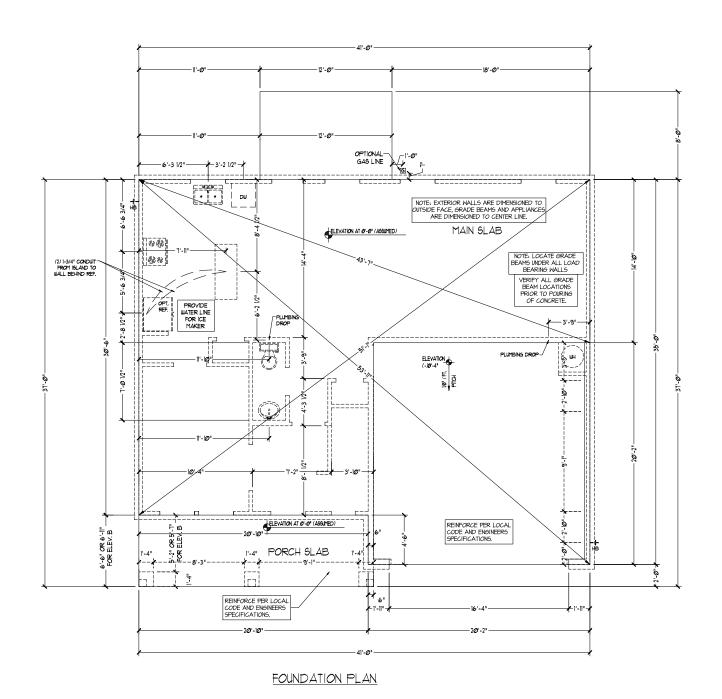
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REVIEWED BY:

A-2 & A-3 ELEVATION W/

A-1.1





H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV.: MARCH 30, 2020

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

DRAWN BY:

ENGINEERED BY: REVIEWED BY:

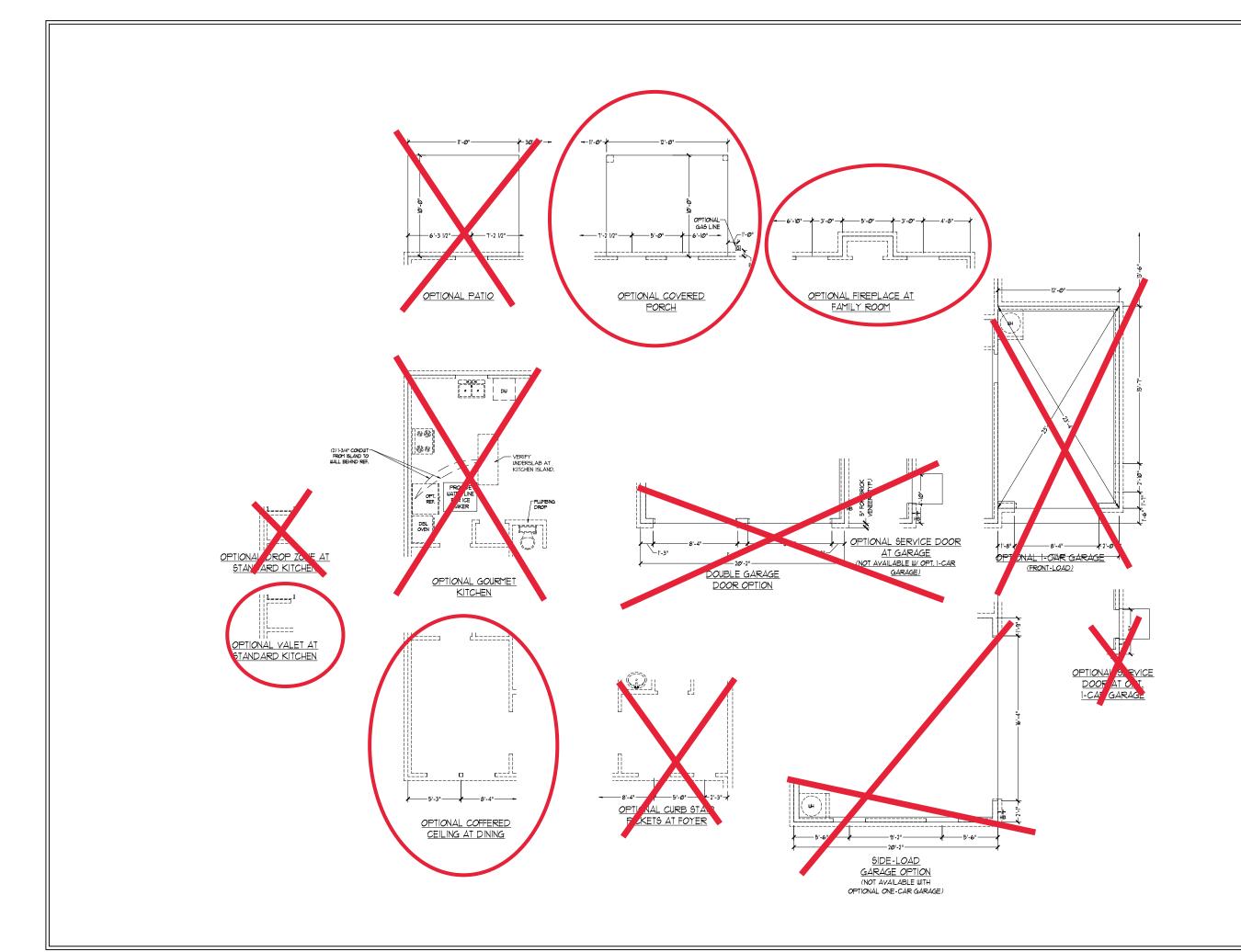
SLAB INTERFACE PLAN

A-4

SMES

J.S.THOMPSON ENGINEERING, INC

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J.S.THOMPSON ENGINEERING, INC 606 WADE AVE, SUITE 104 RALEICH, NC 27605 PHONE: (919) 789-9919 FAX: (919) 789-9921 NC.LICENSE NO. C21733



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H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV.: MARCH 30, 2020

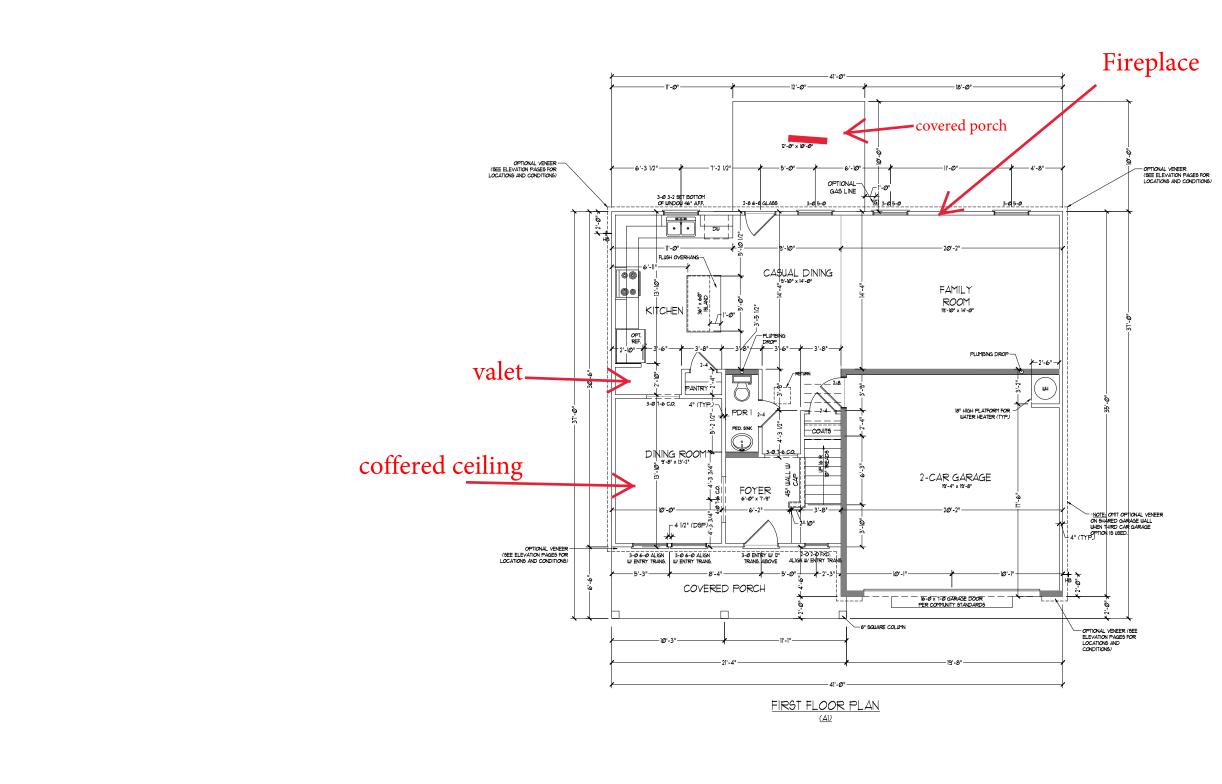
SCALE: 1/4"=1'-0"

DRAWN BY:
ENGINEERED BY:

REVIEWED BY:

SLAB INTERFACE PLAN - OPTIONS

A-4.1



| SQUARE FOOTAGE | 942 80 Ft, 2nd FLOOR | 942 80 Ft, 944 80 Ft, 944 80 Ft, 944 80 Ft, 944 90 Ft

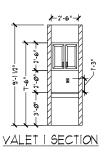
| SQUARE FOOTAGE W FULL BRICK VENEER | 18 FLOOR | 988 50 FT. | 3rd FLOOR | 197 50 FT. | 107 ALL | 1263 50 FT. | 107 ALL | 1263 50 FT. | 148 50 FT. | 160 FT.

NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 4 e le" O.C. (UNO.). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 x 4 e le" O.C. (UNO.) AND NAN-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 e 24" O.C. (UNO.).

2X6 WALL

• SHADED WALLS ARE TO BE 2 x 6 • (6" O.C. (LOAD BEARING) OR 2 x 6 • 24" O.C. (NON-LOAD BEARING) REGARDLESS OF EXTERIOR WALL CONDITION

PROVIDE MINIMUM INSULATION
 IN CEILINGS AND WALLS
 PER SECTION N 1102.1



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H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

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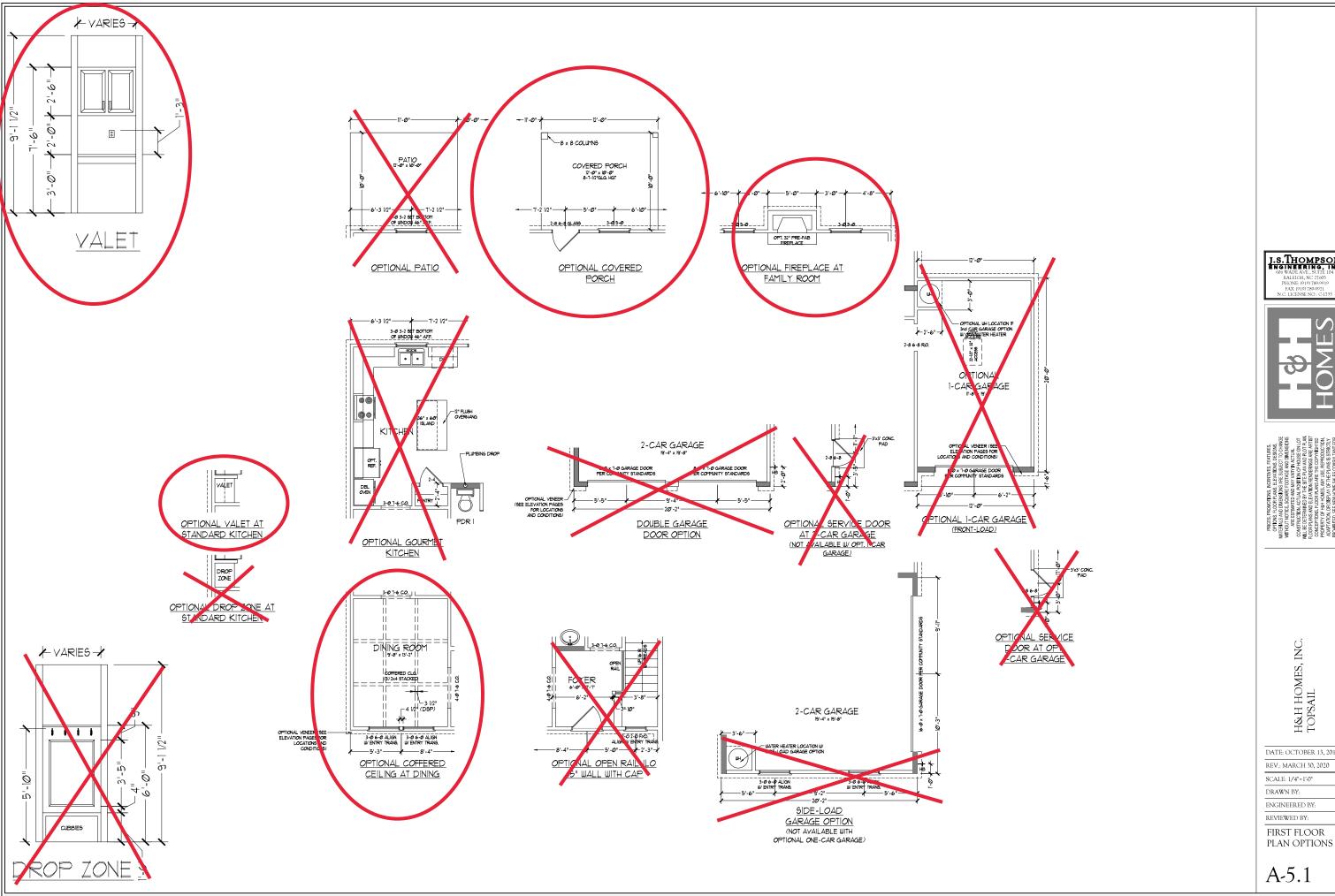
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ENGINEERED BY:

REVIEWED BY:

FIRST FLOOR PLAN

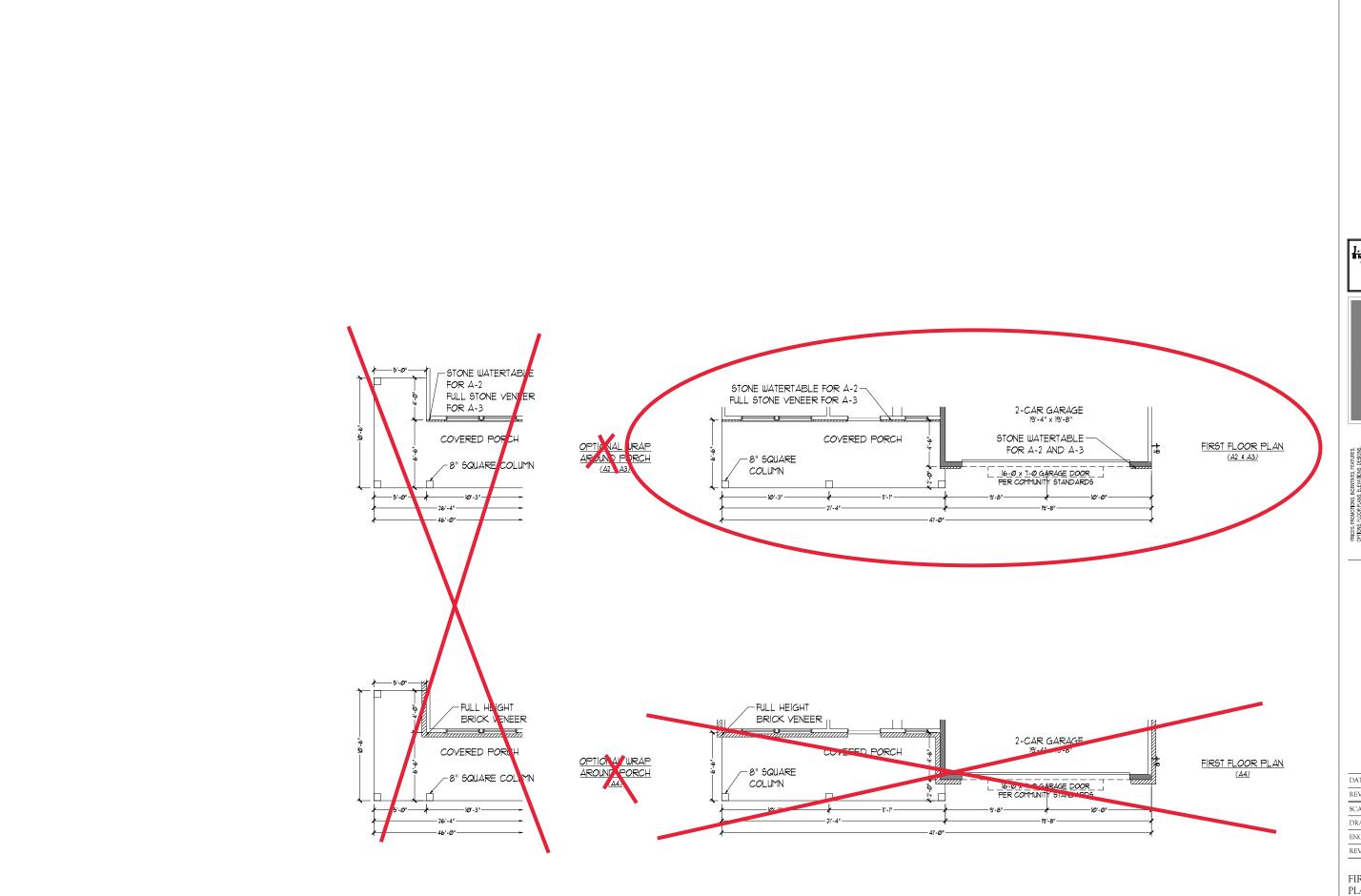
A-5



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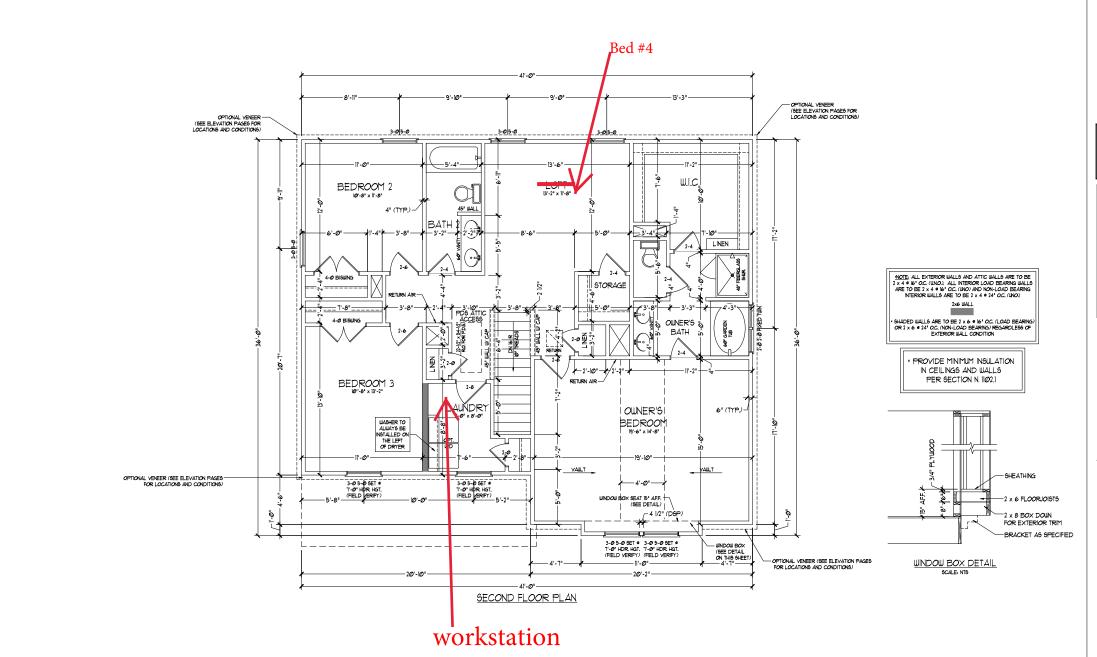
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H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017
REV.: MARCH 30, 2020
SCALE: 1/4"-1'0"
DRAWN BY:
ENGINEERED BY:
REVIEWED BY:

FIRST FLOOR PLAN

A-5.2



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Н&Н НОМЕS, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV.: MARCH 30, 2020

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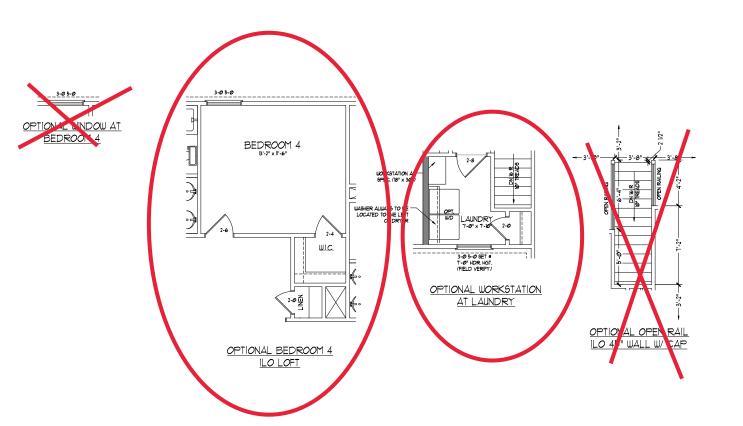
DRAWN BY:

ENGINEERED BY:

REVIEWED BY:

SECOND FLOOR PLAN

A-6



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UP INDEX TUDO TRANSPORTED SETEMATION SETEMATION SETEMATION SETMATION SETMATION SETMATION SETMATION SETMATION SETMATION SETMATION AND UNDERSONAL MACHINE SETMATION AND WAY WARY MACHINE CONSTRUCTION. ACTUAL POSITION OF HOUSE ON LOS TUDOR THANKS AND ENTER DAYA MACHINES AND ANY MACH

H&H HOMES, INC. TOPSAIL

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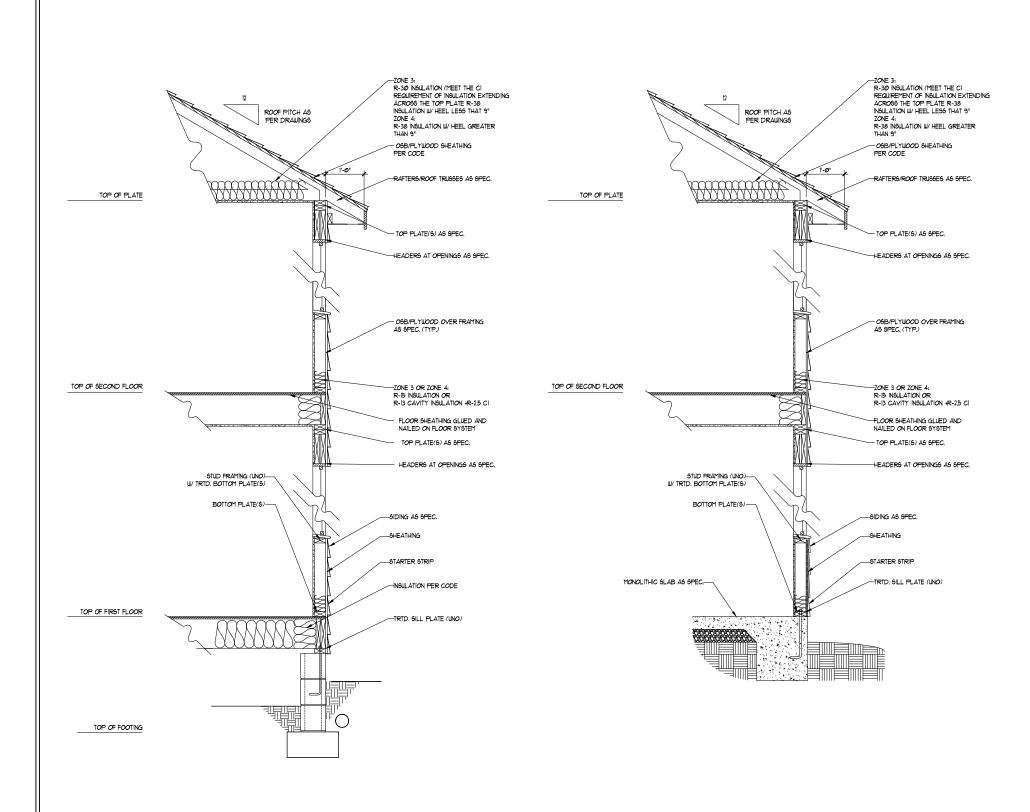
SCALE: 1/4"=1'-0"
DRAWN BY:

ENGINEERED BY:

REVIEWED BY:

SECOND FLOOR PLAN OPTIONS

A-6.1



— 42" H. LOW WALL ,— 3/4" PLYWD. DECKING -FLOOR SYSTEM BEYOND FLOOR SYSTEM 10.00° CONTINUOUS I" NOSING (TYP.) LOW WALL GRASPABLE RAILING IN THE -BEAM-BACKGROUND Ix TREADS AND Ix RISERS (TYP.) 9 TREADS AT 10" EACH

> TYPICAL STAIR DETAIL (NTS)

> > * * STAIR NOTES: RAILING:

BALUSTERS SHALL BE SPACED 50 THAT A 4" SPHERE CANNOT PASS THROUGH.

THE TRIANSILLAR OPENINGS FORMED BY THE RISER, TREAD AND BOTTOM RAIL OF A GUARD AT THE OPEN SIDE OF A STAIRIBLY ARE PERMITTED TO BE A SUCH A SIZE THAT A SPHERE OF 6 INCHES CANNOT PASS THROUGH

OPENINGS FOR REQUIRED GUARDS ON THE SIDES OF STAIR TREADS SHALL NOT ALLOW A SPHERE 4 3/8 INCHES TO PASS THROUGH HANDRAILS:

HANDRAILS FOR STAIRMAYS SHALL BE CONTINUOUS FOR THE RULL LENGTH OF THE FLIGHT, FROM A POINT DIRECTLY ABOVE THE TOP RISER OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOWEST RISER. HANDRAIL BNDS SHALL BE RETURNED OR SHALL TERMINATE IN NEWEL POSTS OR SAFETY TERMINALS, HANDRAILS ADJACENT TO A WILL SHALL HAVE A SPACE OF NOT LESS THAN 1-1/2 NICH BETWEEN THE WALL AND HANDRAILS.

CONTINUOUS GRASPABLE HANDRAIL MUST MEET TYPE ONE OR TYPE TWO CRITERIA

WALL SECTION W/ SLAB

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H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV.: MARCH 30, 2020

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

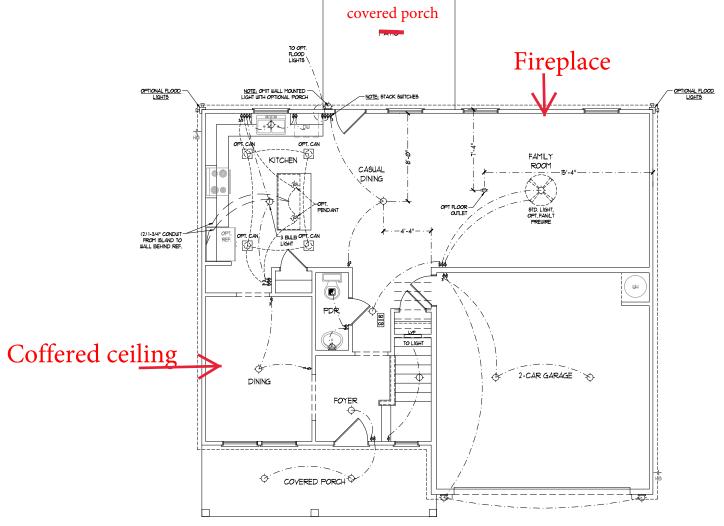
ENGINEERED BY: REVIEWED BY:

WALL SECTIONS AND STAIR DETAIL

AD-1

WALL SECTION W/ CRAWL SPACE W/ STD. SIDING SHOWN (NTS)

W/ STD. SIDING SHOWN (NTS)



ELECTRICAL LAYOUT NOTES:

L) BLOCK AND WIRE FOR ALL CELING FANS PER PLAN

4.) PLACE SWITCHES 8" (MIN.) FROM ROUGH OPENINGS.

ELECTRICAL LEGEND		
+	110 V OUTLET	
₾	WALL MOUNT LIGHT	
.	CEILING MOUNT LIGHT	
•	PENDANT LIGHT	
\bigcirc	RECESSED CAN LIGHT	
Ø	MINI CAN LIGHT	
(b)	EYEBALL LIGHT	
	FLUORESCENT LIGHT	
	2 LAMP, 4" FLUORESCENT LIGHT	
格	FLOOD LIGHT	
ģ	SWITCH	
ş	3-WAY SWITCH	
ģ	4-WAY SWITCH	
\$	DIMMER SWITCH	
CIU-	CONDUIT FOR COMPONENT WIRING	
8P	SPEAKER .	
D-	DOORBELL CHIME	
SD	IIØ V SMOKE DETECTOR	
8	CO DETECTOR	
EXHAUST FAN		
LVP	LOW VOLTAGE PANEL	
\otimes	CEILING FAN	
	CEILING FAN W/LIGHT	

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H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

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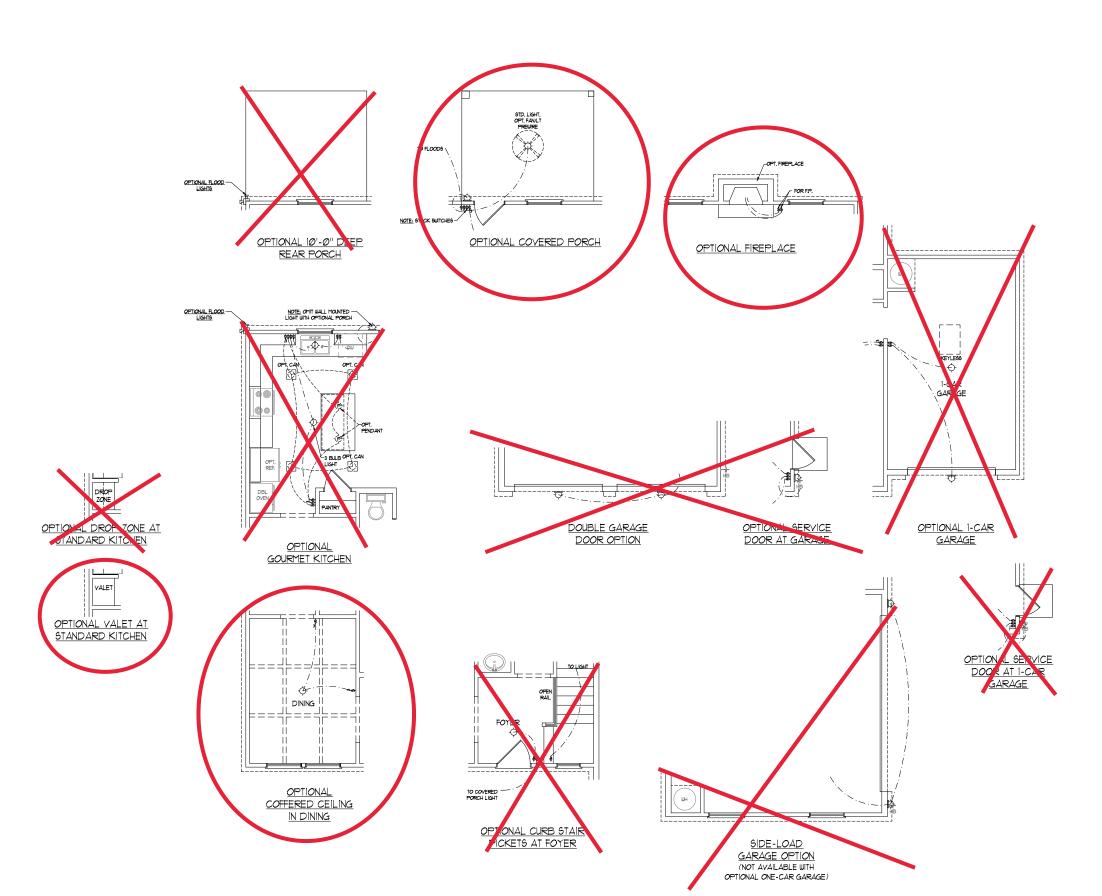
SCALE: 1/4"=1'-0" DRAWN BY:

ENGINEERED BY:

FIRST FLOOR ELECTRICAL PLAN

E-1

FIRST FLOOR PLAN



ELECTRICAL LAYOUT NOTES:

L) BLOCK AND WIRE FOR ALL CELING FANS PER PLAN.

2.) VANITY LIGHTS TO BE SET 90" AFF. (TYP.)

3.) ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN.

4.) PLACE SWITCHES 8" (MIN.) FROM ROUGH OPENINGS.

ELECTRICAL LEGEND		
*	160 Y OUTLET	
卆	WALL MOUNT LIGHT	
\(\rightarrow \)	CEILING MOUNT LIGHT	
•	PENDANT LIGHT	
\Box	RECESSED CAN LIGHT	
Ø	MINI CAN LIGHT	
(b)	EYEBALL LIGHT	
<u> </u>	FLUORESCENT LIGHT	
===	2 LAMP, 4' FLUORESCENT LIGHT	
华	FLOOD LIGHT	
\$	SWITCH	
ş	3-WAY SWITCH	
ŧ	4-WAY SWITCH	
ġ	DIMMER SWITCH	
cw-	CONDUIT FOR COMPONENT WIRING	
8P	SPEAKER .	
D-	DOORBELL CHIME IIØ V SMOKE DETECTOR	
SD		
Ø	CO DETECTOR	
S	EXHAUST FAN	
LVP	LOW VOLTAGE PANEL	
	CEILING FAN	
	CEILING FAN W/LIGHT	

J.S.THOMPSON ENGINEERING, INC

H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

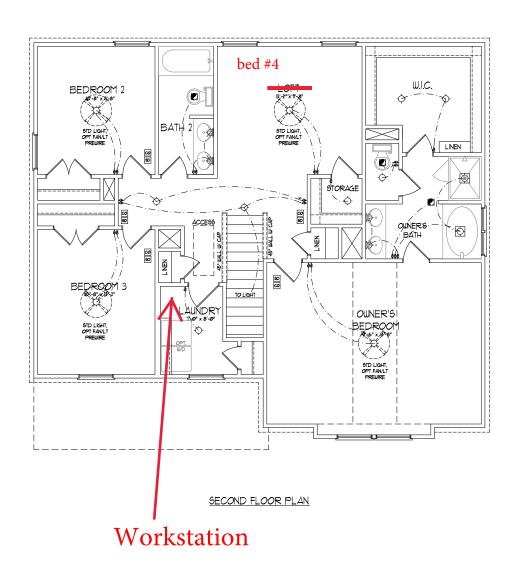
REV.: MARCH 30, 2020

SCALE: 1/4"=1"-0" DRAWN BY:

ENGINEERED BY: REVIEWED BY:

FIRST FLOOR ELECTRICAL PLAN - OPTIONS

E-1





I.) BLOCK AND WIRE FOR ALL CELING FANS PER PLAN.

VANITY LIGHTS TO BE

ADDITIONAL EXTERIOR OUTL REQUIRED BY CODE TO BE

REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN

4.) PLACE SWITCHES 8" (MIN.) FROM ROUGH OPENINGS.

ELECTRICAL LEGEND		
+	110 Y OUTLET	
卆	WALL MOUNT LIGHT	
\(\rightarrow \)	CEILING MOUNT LIGHT	
·(P)	PENDANT LIGHT	
\Box	RECESSED CAN LIGHT	
Ø	MINI CAN LIGHT	
(b)	EYEBALL LIGHT	
<u> </u>	FLUORESCENT LIGHT	
	2 LAMP, 4' FLUORESCENT LIGHT	
华	FLOOD LIGHT	
\$	SWITCH	
ş	3-WAY SWITCH	
ģ	4-WAY SWITCH	
ġ	DIMMER SWITCH	
а л -	CONDUIT FOR COMPONENT WIRING	
SP.	SPEAKER	
마	DOORBELL CHIME	
SD	110 V SMOKE DETECTOR	
Ø	CO DETECTOR	
S	EXHAUST FAN	
	LOW VOLTAGE PANEL	
	CEILING FAN	
	CEILING FAN W/ LIGHT	





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H&H HOMES, INC. TOPSAIL

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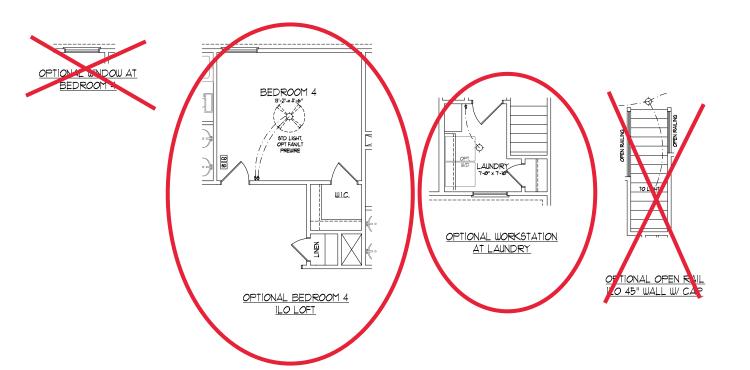
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REVIEWED BY:

SECOND FLOOR ELECTRICAL PLAN

E-2





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MATTERS, AND DIRECTORS DETERMENT OCHANG MITHOUT HOTICE, SQUARE FOOTHGE, NO DIRECTORS ON THE SERVICE TO MAKE WITH WE CANNOT BE CONTROLLED AND CONSTRUCTOR, ACCURATION OF THE WAS DE THE COPPRESS OF THE FLOOR THAN OF DELEVIN THE STEP BAIN AND DE DAY CONCETTORS. LOOP THAN SEE THE COPPRESS OF THE PROPERTY OF THE PUBLISH OF TH

> H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

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REV.: MARCH 30

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

DRAWN BY:

ENGINEERED BY:

REVIEWED BY:

SECOND FLOOR ELECTRICAL PLAN OPTIONS

E-2.1

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602.10 OF THE NCRC
- BRACED WALL DESIGN PER SECTION R607.10 OF THE NCRC 2018 EDITION
 CS-WEP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" CONTRACTOR 16 TO NSTALL TIKE" OSB ON ALL EXTERIOR WALLS ATTACHED WE ON ALL SATEROR WALLS ATTACHED WE ON THE FIELD. GET BETERS TO "GYPSUM BOARD" CONTRACTOR 16 TO NSTALL 12" (MIN) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH 114" SCREWED OR 15" NALLS SPACED TO CALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND PORTION BY ATE. BOTTOM PLATES.
- BOTION PLATES.

 BRACED MALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH.
 FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED

 N ACCORDANCE WITH CHAPTER 45 OF THE NCRC 208 EDITION.
 SEE NOTES, AND DETAIL SHEETS FOR ADDITIONAL BRACED
- WALL INFORMATION.

BRACED WALL DESIGN

RECTANGLE B RECTANGLE A TOTAL REQUIRED LENGTH: 15.1 TOTAL REQUIRED LENGTH: 456 TOTAL PROVIDED LENGTH: 6' SIDE 2A METHOD: C5-W6P METHOD: CS-WSP TOTAL REQUIRED LENGTH: 15.11 TOTAL REQUIRED LENGTH: 456 TOTAL PROVIDED LENGTH: 2066' TOTAL PROVIDED LENGTH: 12' SIDE 3A (SIDE LOAD) SIDE 3B SIDE 3B METHOD: CS-WSP METHOD: CS-WSP/PF/GB TOTAL REQUIRED LENGTH: 3.19'
TOTAL PROVIDED LENGTH: 15.58'
SIDE 4B/3A CUMULATIVE TOTAL REQUIRED LENGTH: 1755' TOTAL PROVIDED LENGTH: 20.12" METHOD: CS-WSP/GB

TOTAL REQUIRED LENGTH: 17.55' TOTAL REQUIRED LENGTH: 20.14' TOTAL PROVIDED LENGTH: 35' TOTAL PROVIDED LENGTH: 31.45'

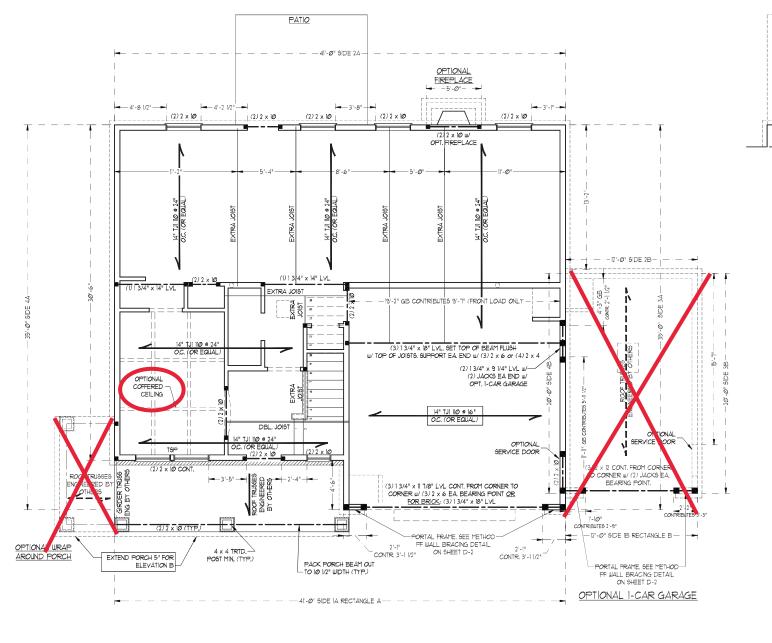
T<u>ABLE R602.75</u> MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN	MAXIMUM STUD SPACING (INCHE (PER TABLE R602.3(5)	
(1221)	16	24
UP TO 3'	1	1
4'	2	1
8'	3	2
121	5	3
16'	6	4

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPF 12 (UNO). ALL TREATED LUMBER TO BE SYP 12 (UNO.)
 ALL LOAD BEARING HEADERS TO BE (2) 2 x 6
- INSTALL AN EXTRA JOIST UNDER WALLS PARALLE TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
 WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA, END (UNO. SEE TABLE R602.15 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 1/16" 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) ROUS OF 80 NAILS STAGGERED AT 3" OC. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL
- PLATES THEIR FULL DEPTH. 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 1000 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. SCREUS, FASTEN ANGLES TO COLUMNS U1/4" THROUGH BOLTS W NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN.
 REFER TO NOTES AND DETAIL SHEETS FOR
- ADDITIONAL STRUCTURAL INFORMATION.

*NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 @ 16" O.C. (UNO). 2 x 4 @ 16" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 6 WALLS (UNO). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 x 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO).



PORTAL FRAME, SEE METHOD-

PF WALL BRACING DETAIL

ON SHEET D-2

DOUBLE GARAGE

DOOR OPTION

(3) 2 x 12 I VI CONT FROM

CONTR. 2'-1 1/2"

-FILL 2 THEEN HEADERS SOLID W/KING STUDS, STRAIL 1995, TOGETHER W/(2) 5' LONG SIMPSON CSIG COIL STRAPS INSTALLED TOP AND BOTTOM ON INSIDE FACE OF HDRS.

(3) 2 x 12 | VI CONT TO

CONTR. 2'-1 1/2'

ACK PORCH BEAM O » NC ഗ ERING, UITE 104 RALEIGH, I 189-3919 FAX: (919) 78 II W Soft WADE. PHONE -(3)2 x (2) 2 x 10 (2) 2 x 10 (2) 2 x 1Ø PTIONAL COVERED PORCH

TOPSAIL H&H HOMES

OATE: NOVEMBER 2, 2020

CALE: 1/4" = 1'-0" DRAWN BY: H&H HOMES

ENGINEERED BY: WFB

SHEET: 4 OF: 8 S-2 SECOND FLOOR FRAMING PLAN

GARAGE OPTION (NOT AVAILABLE WITH OPTIONAL ONE-CAR GARAGE)

E-LOAD

RAGE OPTION AVAILABLE WITH

L ONE-CAR GARAGE)

BCI 45006-18 I-JOISTS MAY BE USED IN LIEU OF TJI 110 1-JOISTS AT THE DEPTH AND SPACING NOTED ON THE PLAN.

DSP - DOUBLE STUD POCKET TSP - TRIPLE STUD POCKET

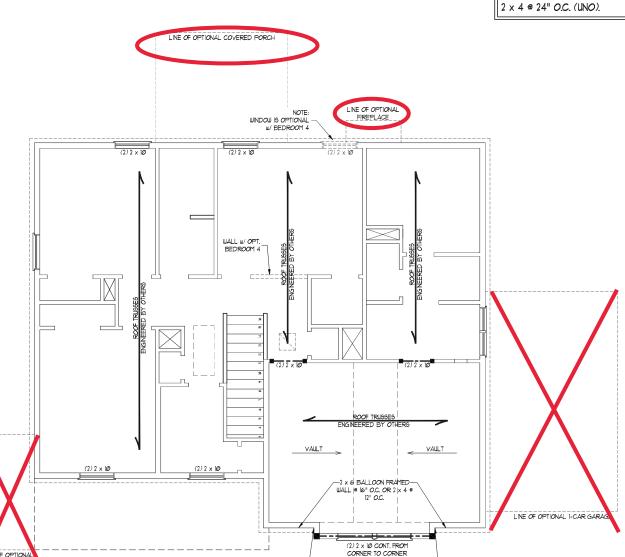
LINTEL SCHEDULE FOR BRICK/NATURAL STONE SUPPORT LENGTH (FT.) SIZE OF LINTEL L 3 1/2 x 3 1/2 x 1/4 UP TO 4 FT. 4-8 L 5 x 3 1/2 x 5/16 LLV 8 AND GREATER L 6 x 4 x 5/16 LLV

BRICK SUPPORT NOTES:

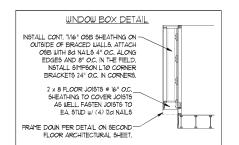
- . LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO). SEE ARCH DWGS, FOR SIZE AND LOCATION OF OPENINGS.
- CILLY) = LONG LEG YERTICAL
 LENGTH = CLEAR OPENING
 EMBED ALL ANGLE IRONS MIN. 4" EACH SIDE INTO YENEER TO PROVIDE
- FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, ATTACH STEEL ANGLE
- 5. FOR ALL HEADERS 8"-0" AND GREATER IN LENGTH, ATTACH STEEL ANGLE TO HEADER WI'2" LAG SCREUS 9 (2") CG, STAGGERED, 5. FOR ALL BRICK SUPPORT © ROOF LINES, FASTEN (2) 2 x 10 BLOCKING BETWEEN STUDS W' (4) 12d NAILS PER PLY, FASTEN A 6" x 4" x 5/16" STEEL ANGLE TO (2) x 10 BLOCKING W' (2) 12". LAG SCREUS 6" 12" OC.
 STAGGERED, SEE SECTION RT03.8.21 OF THE 2018 NORC FOR ADDITIONAL

BRICK SUPPORT INFORMATION. PRECAST REINFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

*NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 @ 16" O.C. (UNO), 2 x 4 @ 16" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 6 WALLS (UNO). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 \times 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE



NSTALL SIMPSON LTØ CORNER BRACKETS 24" O.C. IN CORNERS FOR WINDOW BOX SUPPORT





BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602.10 OF THE NORC
- BRACED WALL DESIGN PER SECTION R602.00 OF THE NCRC 2018 EDITION.

 SHUPP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PAINES" CONTRACTOR IS TO NISTALL TIME" OSB ON ALL EXPERIOR WALLS ATTACHED W 26 NAUGH SPACED 6" OC. ALONG PAINE EDGES AND I" OC. IN THE FIELD.

 1/2" (MINJ GYPSIM WALL BOARD: CONTRACTOR IS TO NISTALL I/2" (MINJ GYPSIM WALL BOARD WHERE NOTED ON THE PLANS, FASTEN GS WITH I/4" SCREWS OR I SHOT NAILS SPACED TO OC. ALONG PAINE EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.

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

 SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL NFORMATION.

NOTE:

- FER SECTION R602.103.2 OF THE 2018 NCRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL
- ANALYSIS IS REQUIRED.

 2. SHEATH ALL EXTERIOR WALLS WITH T/V6* 05B SHEATHING ATTACHED WITH 80 NAIL6 AT 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.

LINTEL SCHEDULE FOR BRICK/NATURAL STONE SUPPORT			
LENGTH (FT.) SIZE OF LINTEL			
UP TO 4 FT.	L 3 1/2 x 3 1/2 x 1/4		
4-8	L 5 x 3 1/2 x 5/16 LLV		
8 AND GREATER	L 6 x 4 x 5/16 LLV		

BRICK SUPPORT NOTES:

- LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO), SEE ARCH DUGS, FOR SIZE AND LOCATION OF OPENINGS.

- OFENINGS

 (LLV) = LONG LEG VERTICAL

 LENGTH = CLEAR OFENING

 EMBED ALL ANGLE IRONG MIN 4" EACH

 SIDE NTO VENEER TO PROVIDE BEARING.

 FOR ALL HEADERS 8"-8" AND GREATER

 IN LENGTH, ATTACH STEEL ANGLE TO

 HEADER W 12" LAG SCREWS 6" 12" OC.

 STAGGERED.

 FOR ALL BRICK SUPPORT = ROOF LINES,

 FASTEN (2) 2 x 10" BLOCKING BETWEEN

 STUDS W (4) 12d NAILS PER PLY. FASTEN

 40" x 4" x 50" 6" STEEL NAULE TO (2) 2 x 3103 W 147 JENNALS FER FET. FASTEN A 6" x 4" x 51/6" STEEL ANGLE TO (2) 2 x 10 BLOCKING W (2) 1/2" LAG SCREUS © 12" O.C. STAGGERED. SEE SECTION RT0382.1 OF THE 2018 NCRC FOR ADDITIONAL BRICK SUPPORT INFORMATION. PRECAST REINFORCED CONCRETE
- LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

TABLE R602.7.5 MINIMUM NUMBER OF FULL HEIGHT STUDS

AT EACH END OF HEADERS IN EXTERIOR WALLS				
HEADER SPAN	MAXIMUM STUD SPACING (INCHES) (PER TABLE R602.3(5)			
\\ \tag{\tag{\tag{\tag{\tag{\tag{\tag{	16	24		
UP TO 31	1	1		
4'	2	1		
8'	3	2		
12'	5	3		
16'	6	4		

STRUCTURAL NOTES:

ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP 12 (UNO.)
ALL LOAD BEARING HEADERS TO BE (2) 2 x

6 (UNO).

- WINDOW AND DOOR HEADERS TO BE SUPPORTED W/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.) SEE TABLE R602.1.5 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 17/6" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG EDGES AND 6" O.C. IN THE FIELD.
- OC. IN THE FIELD.
 FOR HIGH WIND ZONES, SECURE ALL
 EXTERIOR WALL SHEATHING PANELS TO
 DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2) ROUS OF 80 MAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR FULL DEPTH.
 REFER TO NOTES AND DETAIL SHEETS FOR
 ADDITIONAL STRUCTURAL INFORMATION.

TSP - TRIPLE STUD POCKET



DATE: NOVEMBER 2, 2020

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

DRAWN BY: H&H HOMES

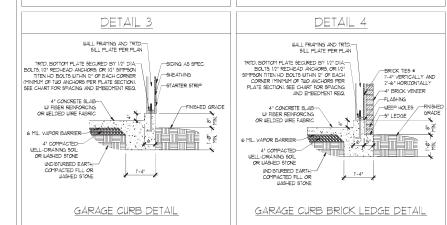
ENGINEERED BY: WFB

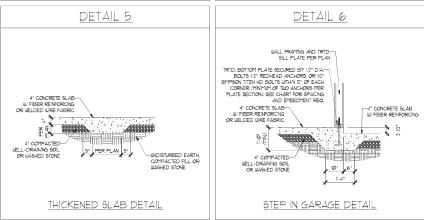
SHEET: 5 OF: 8 S-3

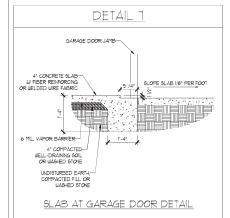
TYPICAL SLAB DETAIL

BRICK VENEER DETAIL

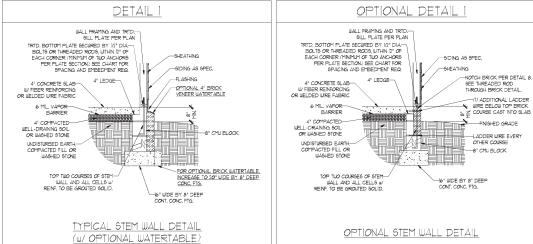
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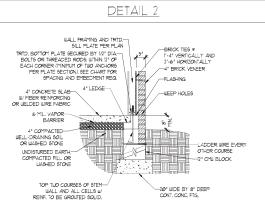


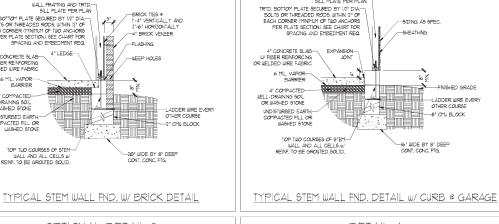


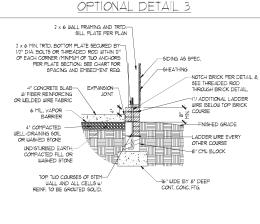


STEMWALL DETAILS

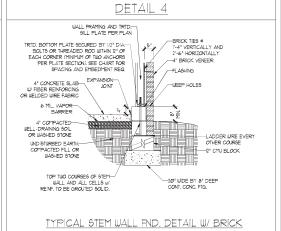








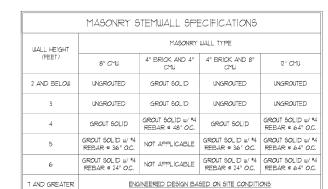
	OPTIONAL	STEM WAL	L FND, DE	TAIL w/ C	URB @ C	#ARAGE
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DETAIL 3

AND CURB @ GARAGE

DETA	4IL 8
INSIDE EDGE OF MASONRY STEMWALL	1/2" ANCHOR ROD - SPACED PER TABLE
LADDER WIRE PER DETAIL	
OUTSIDE EDGE OF BRICK AND	○ ○ ○ ○ ○ ○ ○
STICK FRAMED WALL ABOVE —/ NOTCH BRICK ® THREADED ROD AND GROUT SOLID —/	
THREADED ROD THRO	DUGH BRICK MASONRY



STRUCTURAL NOTES:

- WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
 TIE MULTIPLE WITHES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.
 CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
- FOUNDATION NOT COMMON TO HOUSE.

 BACKFILL OF CLEAN 51 / 67 MASHED STONE IS ALLOWABLE.

 BACKFILL OF WELL DRAINED OR SAND GRAVEL MIXTURE SOILS (45 PSF.FT BELOW GRADE)
 CLASSFIED AS GROUP I ACCORDING TO MINIED SOILS CLASSFICATION SYSTEM IN ACCORDIANCE
 WITH TABLE RADIS OF THE 708 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

 PREP 61.48 PER 158621 AND 850622 BASE OF THE 2018 INTERNATIONAL RESIDENTIAL CODE.
- MINIMUM 24" LAP SPLICE LENGTH.

1) ADDITIONAL LADDER

FNISHED GRADE

---LADDER WIRE EVERY

OTHER COURS

-8" CMU BLOCK

LOCATE REBAR IN CENTER OF FOUNDATION WALL.

LUCATE REBAR IN CENTER OF FOUNDATION WALL.

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

ANCHOR SPACING AND EMBEDMENT			
WIND ZONE	120 MPH	130 MPH	
SPACING	6'-0" O.C.	4'-0" O.C.	
EMBEDMENT	7"	15" INTO MASONRY 1" INTO CONCRETE	

SPEED WIND

SCALE: NTS GINEERED BY: JES

D-1 FOUNDATION DETAILS



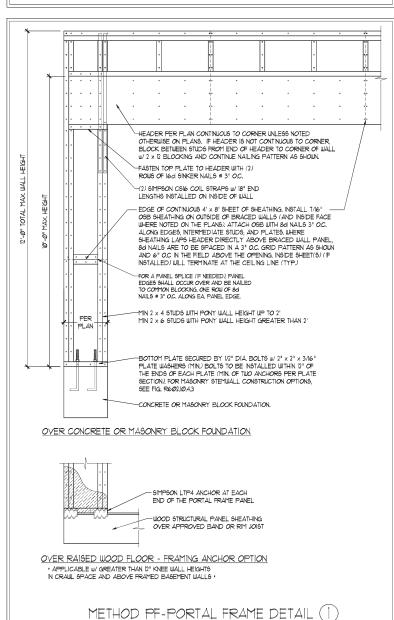


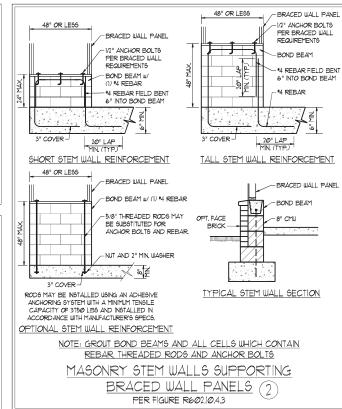
MPH ULTIMATE DESIGN FOUNDATION DETAILS 130] 120 MPH.

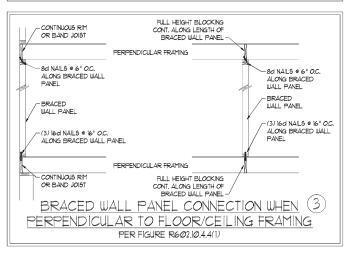
- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NORG FOR ADDITIONAL INFORMATION AS NEEDED
- SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOUR TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES
- 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE.
- O HERWISE.

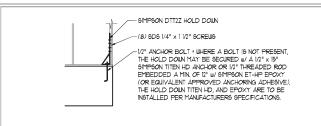
 ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED, WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED PER TABLE RIGOLS, METHOD GB TO BE FASTENED PER TABLE REGOL/Ø]

 6. CS-WSP REFERS TO THE "CONTINUOUS SHEATHING. WOOD STRUCTURAL PANELS" WALL BRACING METHOD. TI/6" OSB SHEATHING IS TO BE NISTALLED ON ALL EXTERIOR WALLS ATTACHED W 6d COMMON NAILS OR 8d (2) 1/2" LONG X Ø]13" DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (UN.O.).
- GB REFERS TO THE "GTPSM" BOARD" WALL BRACING METHOD. 12" (MIN) GYPSM" WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH 114" SCREWS OR 15.0" NALLS SPACED T" OC. ALONG PARAL EDGES NICLUDING TOP AND BOTHOM PLATES AND INTERMEDIATE SUPPORTS (MIN). VERBY ALL FASTENED WITH STORY AND SOTOM PLATES AND INTERMEDIATE SUPPORTS (MIN). VERBY ALL FASTENED WITH STORY AND 5/8" GYPSM" FRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE RT0235. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R6023(1). EXTERIOR GB TO BE INSTALLED VERTICALLY.
- REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602, 103, METHOD CS-USP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 ITS ACTUAL LENGTH, AND METHOD PF CONTRIBUTES IS TIMES ITS ACTUAL LENGTH.

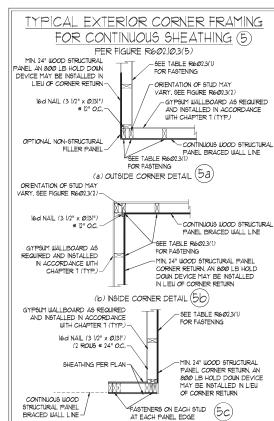




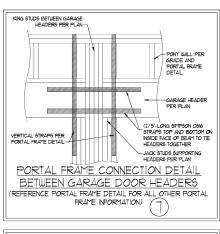


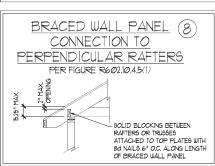


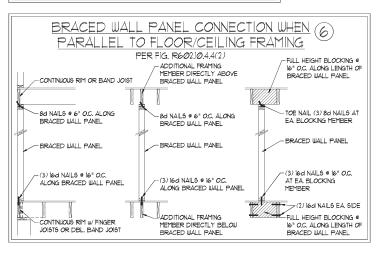
HOLD DOWN DETAIL FOR MASONRY FOUNDATION OR MONOLITHIC SLAB * APPLICABLE ONLY WHERE SPECIFIED ON PLAN :

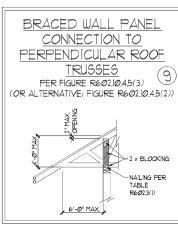


(c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)









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DATE: NOVEMBER 14, 2018

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SPEED

S DESIGN WIND S AND DETAILS

MPH ULTIMATE I BRACING NOTES

MPH - 130 N WALL E

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a Z ഗ

CALE: 1/4" = 1'-0" DRAWN BY: IST

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BRACED WALL NOTES AND DETAILS AND PF DETAIL

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SPEED WIND · 130 MPH ULTIMATE DESIGN W STANDARD STRUCTURAL NOI

DATE: NOVEMBER 14, 2018

MPH

120

CALE: 1/4" - 1'-0" DRAWN BY: IES

NGINEERED BY: IST

S-0 STRUCTURAL NOTES

GENERAL NOTES

- 1 ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS HIPS VALLEYS RIDGES FLOORS WALLS BEAMS HEADERS, COLUMNS, CANTILEYERS, 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 1-JOIST OR FLOOR/ROOF TRUSS
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NORC.), 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 (R3014 R3011)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	2Ø	10	L/240 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	10	L/36Ø
DECKS	40	10	L/360
EXTERIOR BALCONIES	40	10	L/36Ø
FIRE ESCAPES	40	10	L/36Ø
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	10	L/360
PASSENGER VEHICLE GARAGE	50	10	L/36Ø
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/36Ø
SLEEPING ROOMS	3Ø	10	L/36Ø
STAIRS	40	10	L/360
WIND LOAD	(BASED ON TABLE R3012)	4) WIND ZONE AND EXPOSURE)	
GROUND SNOW LOAD: Pa	2Ø (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 R403.16 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 II OF THE NCRC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

- 1. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARNG CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARNG 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 FOR ALL CORCNETE IS LABS AND FOOTINGS, THE AREA WITHIN THE PERITE ERY OF THE BUILDING ENVELOYE SHALL HAVE ALL YESTETATION OF THE SULPHIAN ENVELOYE SHALL HAVE ALL YESTETATION CONTROL THE FILL DEPTHS SHALL HAVE ALL YESTETATION CONTROL THE FILL DEPTHS SHALL NOT EXCEED 24 FOR CLEAN SAND OR GRAYEL. A 4" THICK BASED CONSISTING OF CLEAN GRADED SAND OR GRAYEL SHALL BE PLACED. A BASE COURSE CONSISTING OF CLEAN GRADED SAND OR GRAYEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED UNLETE A CONCRETE SLAB IS INSTALLED ON USELL-DRAINED OR SAND-GRAY INTURIES OF IS CLASSIFIED AS GROUP I, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R4051 OF THE NORC, 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 R4022 OF THE NCRC, 2018 EDITION, CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60 WELDED WIRE FABRIC TO BE ASTM AIRS. 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 ONOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL. SHALL NOT BE LESS THAN 11/2" FOR 15 BARS OR SMALLER, AND NOT LESS THAN 2" FOR 16 BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL COMFORM
- 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 5 MORTAR PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY
- 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 RIPS OF INTENSIVE EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCM* AREA-A OR ACE 350/ASCE 5/1705 462. WASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE RAGALINI), RAGALINIZ), RAGALINIZ), OR RAGALINI OF THE NCRC, 2019 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE RAGALINIZ) OF THE NCRC, 2019 EDITION. STEP CONCRETE FOUNDATION WALLS AT 16" OC. WHERE GRADE PERMITS (UNO).

FRAMING NOTES

- ALL FRAMING LUMBER SHALL BE 12 SPF MINIMUM (Fb = 875 PS) Fv = 375 PS) F = 16,000,000 PS() LINLESS NOTED OTHERWISE (LINC) ALL TREATED LUMBER SHALL BE 1 2 SYP MINIMUM (Fb = 915 PSI, Fv =115 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNC
- LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fo =2600 PSI, Fv = 285 PSI, E = 19000000 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 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fo = 2500 FSI, E = 18000000 FSI, PARALLEL STRAND LUMBER (PSL.) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fo = 2900 FSI, E = 20000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

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

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 B. CONCRETE C. MASONRY (FULLY GROUTED) (2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS

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 16 SECURED TO THE TOP OF THE STEEL BEAM w/ (2) ROUG OF SELF TAPPING SCREUG ® 16" O.C. OR (2) ROUG 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) ROUG OF 9/6" DIAMETER

- 5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION, SHADED SQUARES DENOTE POINT LOADS
- $6. \quad \text{ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE NCRC, 2018 EDITION OR BE (2) 2 × 6 WITH (1) JACK } \\$ 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 R602.1.5 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 1. 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 I 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).
- FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A3/01) 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 OCATED 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.
- IØ. 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.
- PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR 1-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 5/6" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (UN.O.). FOR ALL HEADERS 8'-Ø" 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 RT03.82.1 OF THE NCRC, 2018 EDITION.
- 13. FOR STICK FRAMED ROOFS: CIRCLES DENOTE (3) 2×4 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
- 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).
- ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 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.

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