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)

TOPSAIL REVISION LIST - ARCHITECTURAL:

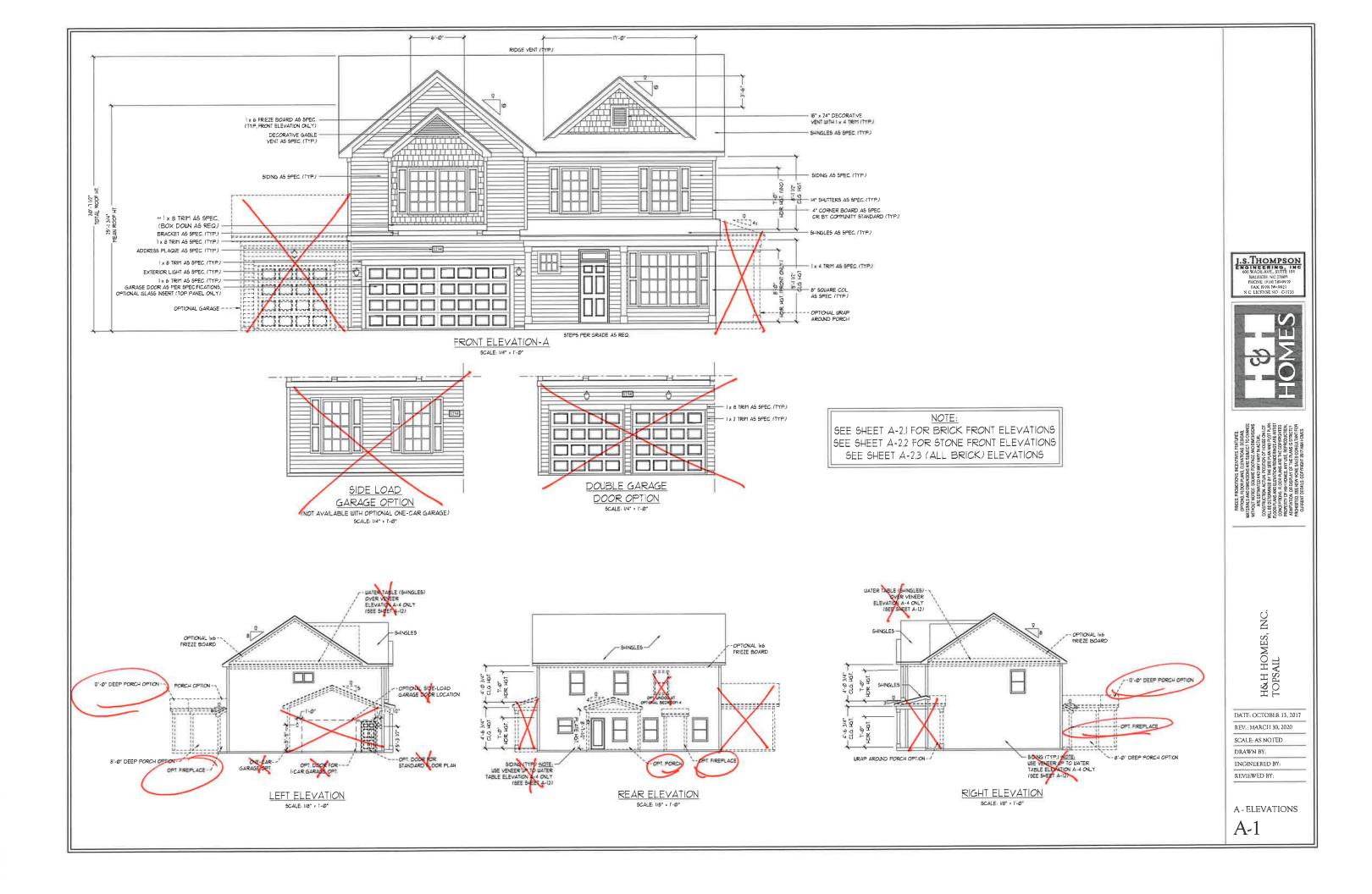
CHANGES ON 03-30-2020

- 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 PATTO TO 8"x8"
- 16 CHANGED EXTERIOR WALLS FROM 2x6 TO 2x4 EXCEPT AT SHADED AREAS
- 19. REMOVED ALL 2x6 NOTES
- 20. UPDATED ALL INTERIOR ROOM DIMENSIONS
- 21. ADDED HOSE BIBS TO PLANS
- 22. UPDATED SOUARE 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 OUTLETS
- 28. 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 HOME TOPSAIL

DATE OCTOBER 13, 2017 REV. MARCH 30, 2020 DRAWN BY: WG









H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV.: MARCH 30, 2020

SCALF: AS NOTED

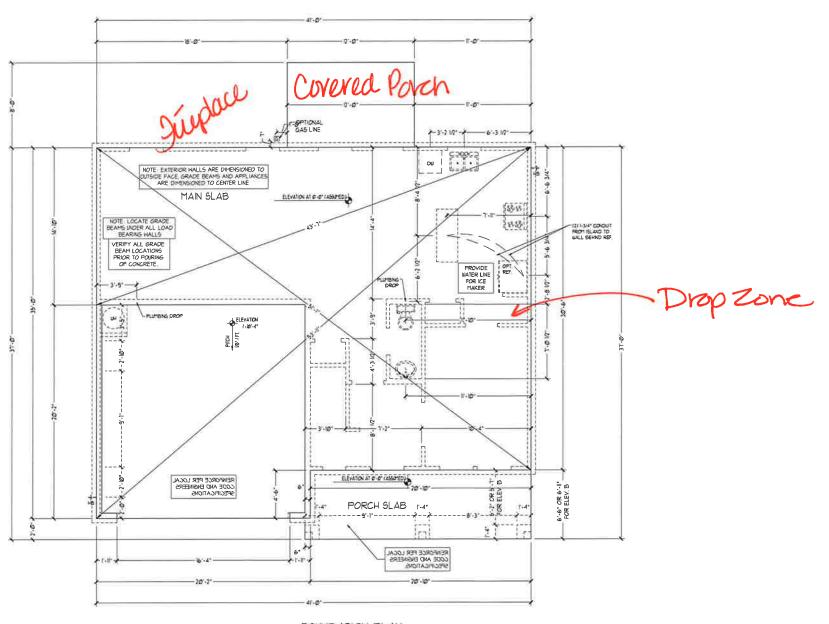
DRAWN BY:

ENGINEERED BY:

REVIEWED BY:

A - 2 & A -3 ELEVATIONS BRICK

A-1.1



FOUNDATION PLAN





H&H HOMES, INC. TOPSAIL

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

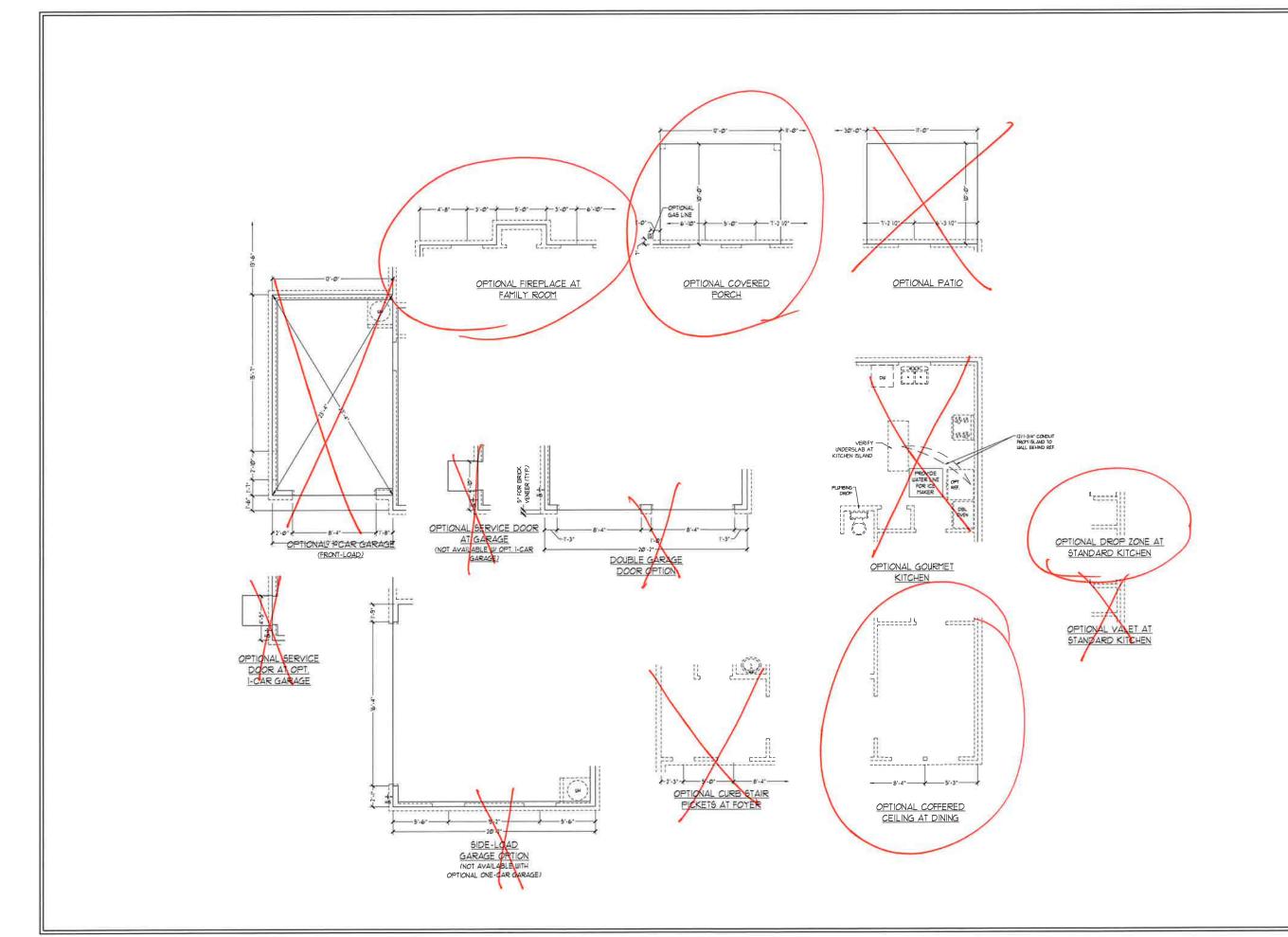
SCALE: 1/4"=1'-0"

DRAWN BY: ENGINEERED BY:

REVIEWED BY:

SLAB INTERFACE PLAN

A-4



J.S. THOMPSON ENGINEERING, INC 606 WADE AVE, SUITE 104 RALEIGH NC 27605 PHONE (9:19) 780-991 FAX, (9)19) 780-9921 NC LICENSENO, CJ733



PROVISK FROOM THE SERVING SERVING STANKING SERVING SER

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

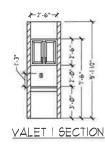


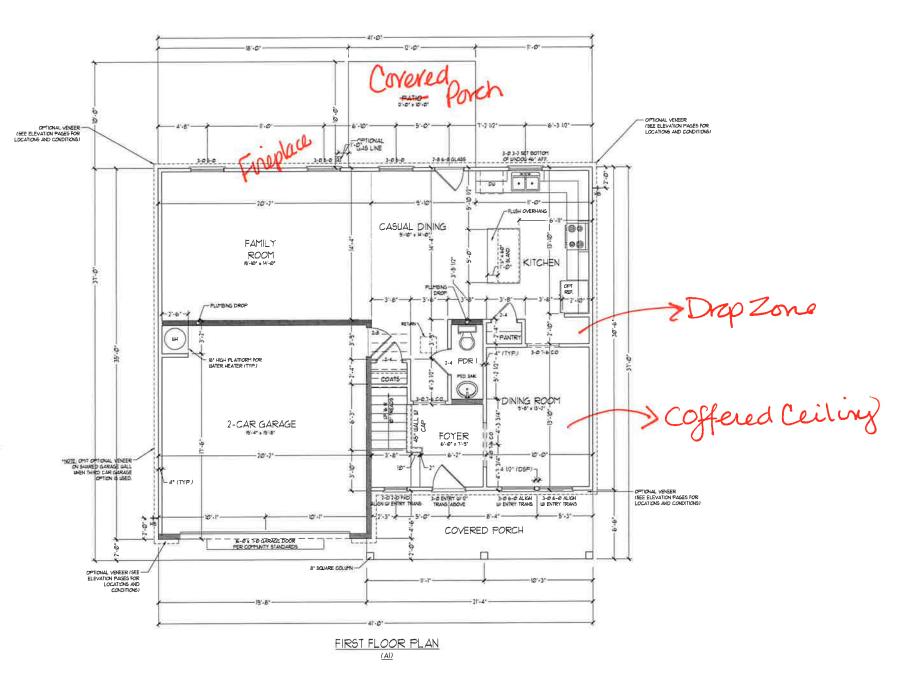
| SOLARE HOOT AGE W FILL BRICK VENERS
| Ist FLOOR | 988 50 FT, | 107 50 FT, | 108 5

MOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 4 4 % O.C. (UND.) ALL INTERIOR LOAD BEARNS WALLS ARE TO BE 2 x 4 4 % 6 CO.C. (UND) AND NON-LOAD BEARNS MITERIOR WALLS ARE TO BE 2 x 4 8 74" O.C. (IND.)
276 WALL

SHADED WALLS ARE TO BE 2 x 6 € 6° OC. (LOAD BEARNS)
 OR 2 x 6 € 24° OC. (NON-LOAD BEARNS) REGARDLESS OF
 EXTERIOR WALL CONDITION

PROVIDE MINIMUM INSULATION
IN CEILINGS AND WALLS
PER SECTION N 1102.1









OPTIONS GOOR ALM SEED STORY MINE STREAM OF STREAM STORY STREAM ST

H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV.: MARCH 30, 2020

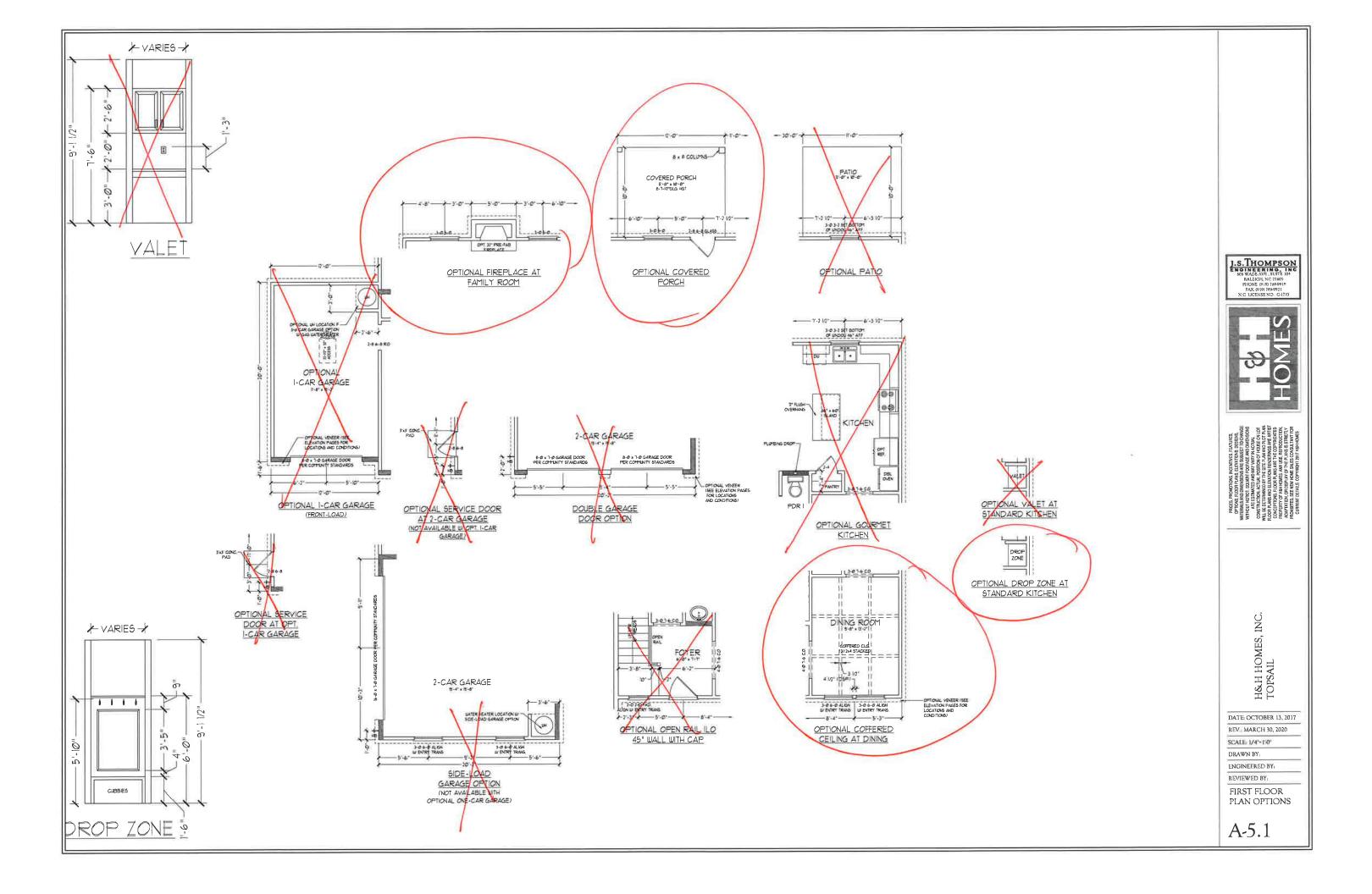
SCALE: 1/4"=1'-0"

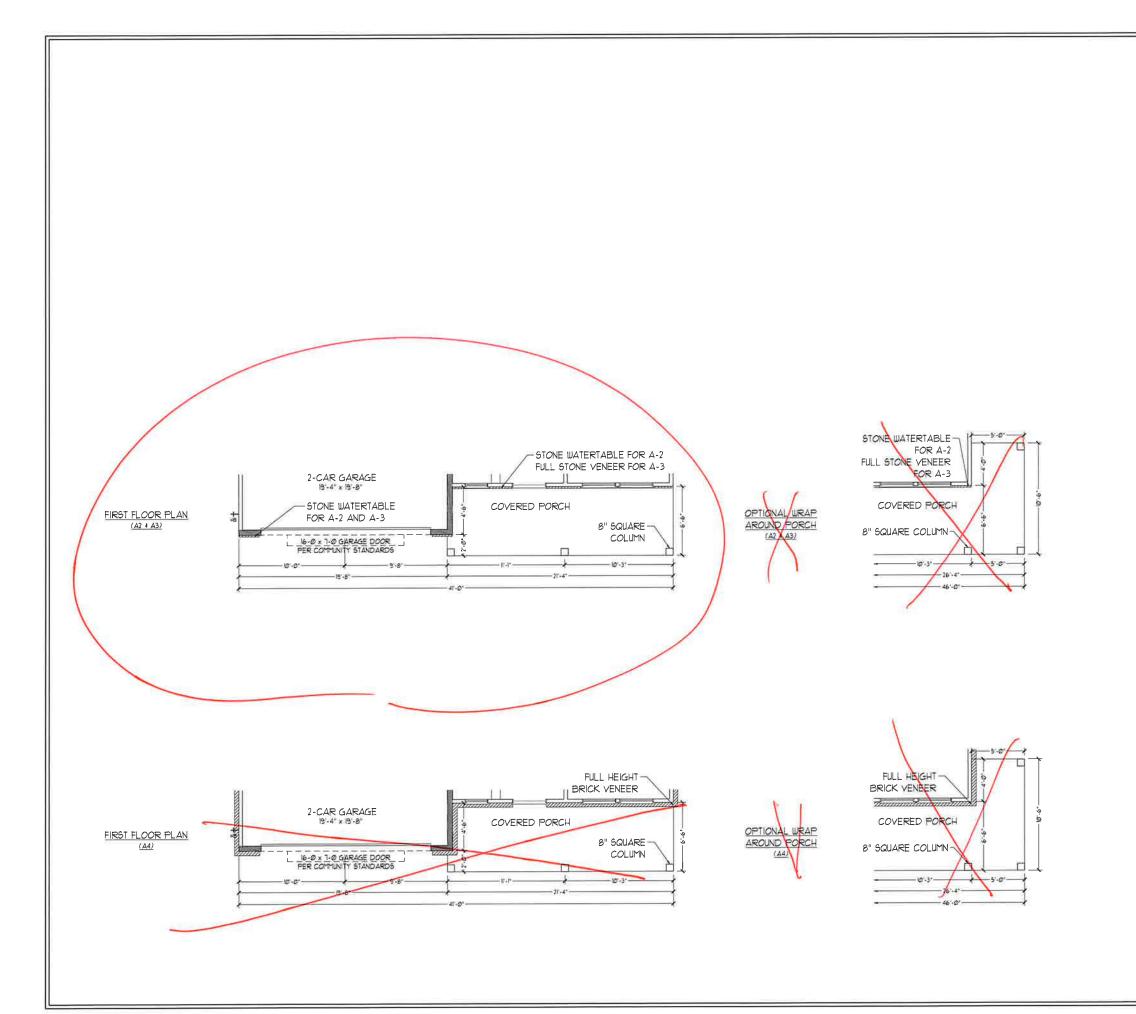
DRAWN BY: ENGINEERED BY:

REVIEWED BY:

FIRST FLOOR PLAN

A-5





I.S.THOMPSON ENGINEERING, INC 606 WADE AVE, SUITE 104 RALEIGH NC 27605 PHONE (919) 789-9919 FAX (919) 789-9921 NC LICENSE NO: C1733



H&H HOMES, INC. TOPSAIL

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

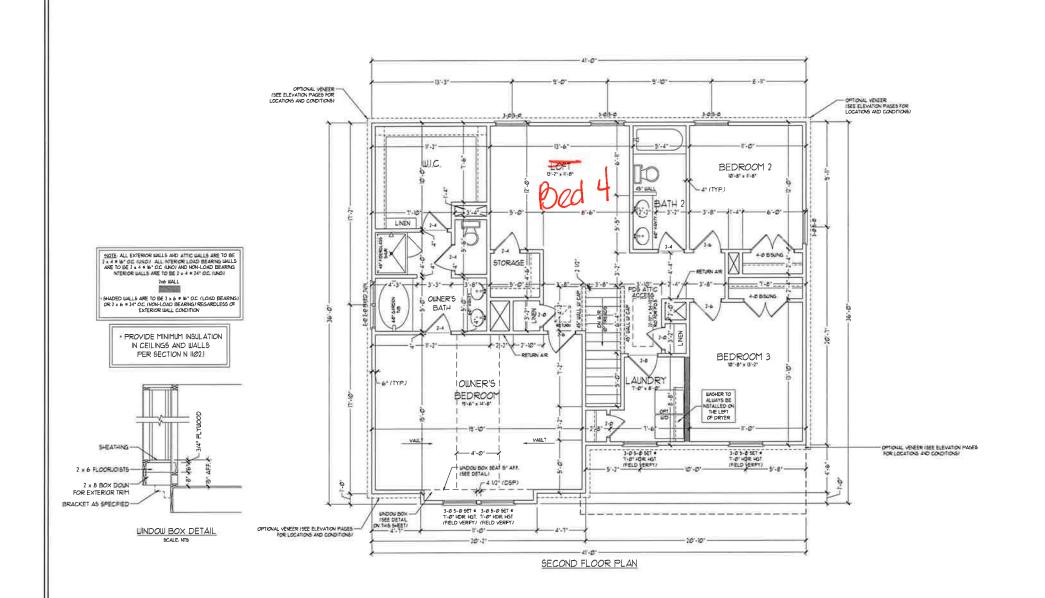
SCALE: 1/4"=1'-0"

DRAWN BY:

ENGINEERED BY: REVIEWED BY:

FIRST FLOOR PLAN

A-5.2



J.S.THOMPSON ENGINEERING, INC 606 WADE AVE, SUITE IN RALEIGH NC 21605 PHONE (HS) 188-9619 FAX. (19) 188-9611 NC LICENSE NO. C-1733



PRESE, THANDIOS RESUITES I FOR THREE.

WITHOUT NOTICE SOURCE FOO MEETINGS IN THE OFFI

FOO MEETINGS

H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV : MARCH 30, 2020

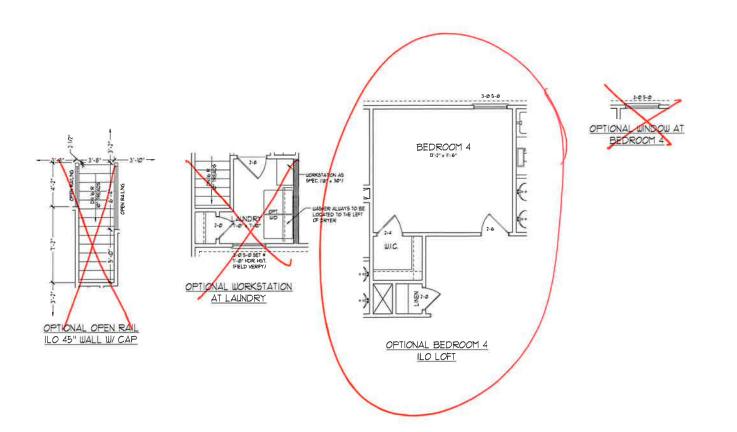
SCALE: 1/4"-1'-0"

DRAWN BY: ENGINEERED BY:

REVIEWED BY:

SECOND FLOOR PLAN

A-6





H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV : MARCH 30, 2020

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

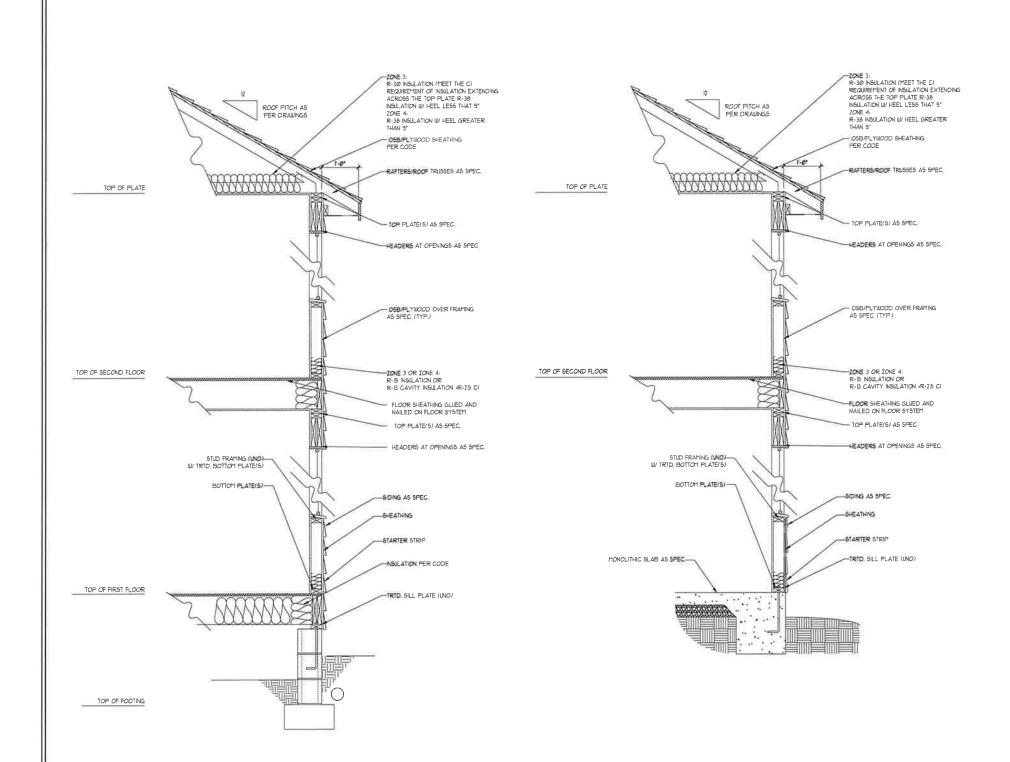
DRAWN BY:

ENGINEERED BY:

REVIEWED BY:

SECOND FLOOR PLAN OPTIONS

A-6.1



BEAM FLOOR SYSTEM

FLOOR SYSTE

TYPICAL STAIR DETAIL (NTS)

STAIR NOTES:

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

THE TRIANGULAR OPENINGS FORMED BY THE RISER TREAD AND BOTTOM RAIL OF A GUARD AT THE OFEN SIDE OF A STAIRBUT ARE PERMITTED TO BE A SICK 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
TREADS HALL NOT ALLOW A SPHERE 4 3/8 INCHES TO PASS
HANDRALS

HANDRAILS FOR STAIRMAYS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE FLIGHT, FROM A POINT DIRECTLY. ABOVE THE TOP RISER OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOWEST RISER. HANDRAIL ENDS SHALL BE RETURNED ON SHALL TERMINATE IN NEURIL POSTS OR SAFETY TERMINATE MANDRAILS ADJACENT TO A URALL SHALL HAVE A SPACE OF NOT LESS THAN INV. NICH BETWEEN THE WALL AND HANDRAILS.

CONTINUOUS GRASPABLE HANDRAIL MUST MEET TYPE ONE OR TYPE TUD CRITERIA

WALL SECTION W/ SLAB W/ STD. SIDING SHOWN (NTS) MERCII - 17405 PHONE (9/9) 78-99-99 FAX (9/9) 78-99-21 N C LICENSE NO. C-1733

J.S. THOMPSON



CPTONG ELONGTHANG STATUS.

CPTONG ELONGTHANG STA

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)

ELECTRICAL LAYOUT NOTES

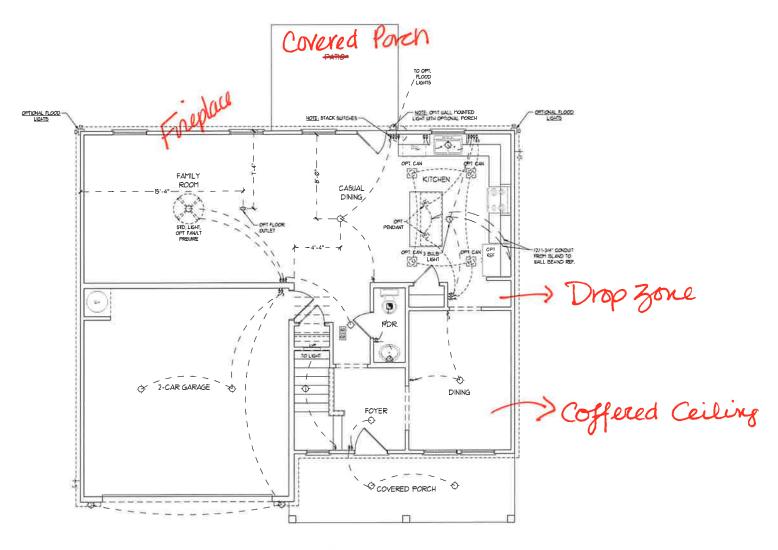
U BLOCK AND WIRE FOR ALL
CEL NO FASS TIES FLAN

2) VANITY LEARTS TO BE SET
90° AFF, (YPP)

3) ADDITIONAL EXTREMOR CUTLETS
SEQUEDED BY CODE TO BE
LOCATED BY ELECTRICIAL

4) PLACE SUTICLES B' (HINJ FROM
ROUGH OFENMAS

IIØ V OUTLET	
	-
WALL MOUNT LIGHT	Ω
CEILING MOUNT LIGHT	-0
PENDANT LIGHT	•
RECESSED CAN LIGHT	
MINI CAN LIGHT	
EYEBALL LIGHT	0
PLUDRESCENT LIGHT	
7 LAMP, 4" FLUORESCENT LIGHT	=====
FLOOD LIGHT	₩
SWITCH	ţ
3-BAY SUPOH	d
4-BAY BUTCH	
DIMMER SWITCH	8
CONDUIT FOR COMPONENT WRING	-(20)
SPEAKER	6P
DOORESELL CHIME	-0
NO V SMOKE DETECTOR	80
CO DETECTOR	60
EXHAUST FAN	
LOU VOLTAGE PANEL	LVP
CEILING FAN	X
CEILING FAN UP LIGHT	(50)



FIRST FLOOR PLAN

J.S. THOMPSON ENGINEERING, INC 606 WADE AVE, SUITE 104 RALEIGH, NC 27605 PHONE (910) 780-9919 FAX (919) 780-9921 N C LICENSENO, C-1733



THOUSE REDGING THE ELEMENTS EL

H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV : MARCH 30, 2020

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

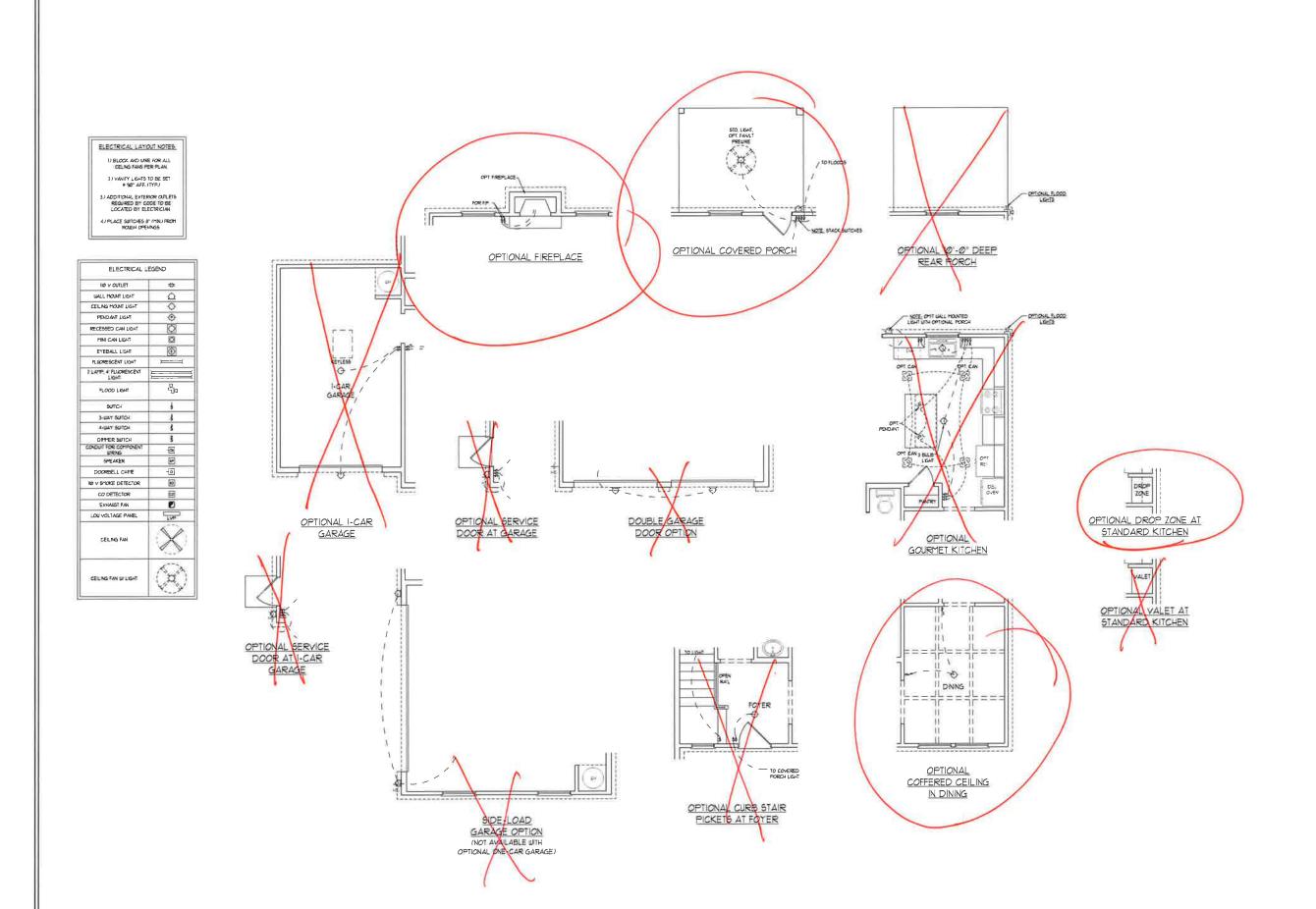
DRAWN BY:

ENGINEERED BY:

REVIEWED BY:

FIRST FLOOR ELECTRICAL PLAN

E-1



.S.THOMPSON
HGINEERING, INC
606 WADE AVE, SUITE 104
RALEIGII. NC 27605
PHONE (9.19) 7899919
FAX, (919) 789 9021
N.C. LICENSE NO. C-1733



OF PINES, LONG-PAINS, ELEMENTON, SERSONS, THIRTHOUSE STAMPS CONTROLLES, AND MACHINES, AND MACHINES,

> 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

ELECTRICAL LAYOUT NOTES

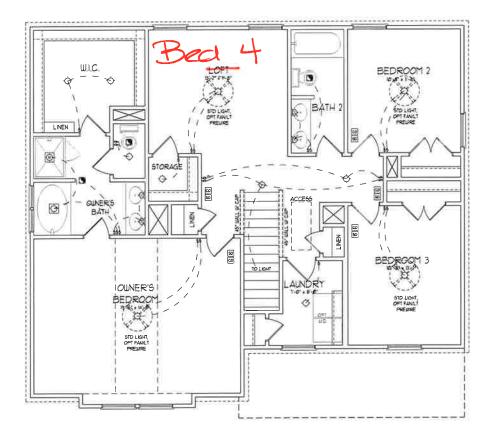
IJ BLOCK AND URE FOR ALL CELING FANG FER PLAN

2) VANITY LIGHTS TO BE SET 9 90" AFF, (TYP)

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

4) PLACE SUITCHES 8" (MINJ FROM ROUGH OFFININGS

ELECTRICAL I	LEGEND
IIØ V OUTLET	•
WALL HOUNT LIGHT	4
CEILING MOUNT LIGHT	0
PENDANT LIGHT	•
RECESSED CAN LIGHT	Ø
MINI CAN LIGHT	Ø
EYEBALL LIGHT	(B)
FLUORESCENT LIGHT	<u> </u>
2 LAMP, 4 FLUORESCENT LIGHT	
FLOOD LIGHT	₽-
SWITCH	4
3-WAY SWITCH	d d
4-WAT SWITCH	4
DIMMER SWITCH	8
CONDUIT FOR COMPONENT URNS	-@
SPEAKER	9
DOORBELL CHIME	-0
10 V SHOKE DETECTOR	50
CO DETECTOR	CO
EXHAUST FAN	
LOW VOLTAGE PANEL	
CEILING FAN	X
CEILING FAN UV LIGHT	(a



SECOND FLOOR PLAN

I.S.THOMPSON ENGINEERING, INC 606 WADE AVE, SUTTE 104 NALEIGI, NC 27665 PHONE (910) 789-991 FAX. (910) 789-991 NC LICENSE NO C1733



OCTORS TOOR PLANS ELECTROCESSINGS,
MUTERALS AND DIVERSIONS RE ELECTROCESSINGS,
MUTERALS AND DIVERSIONS RESURED. TO CHANGE
MUTERAL STANDES SOURCE PLANS TO CHANGE SOURCE
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H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV,: MARC1130, 2020

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

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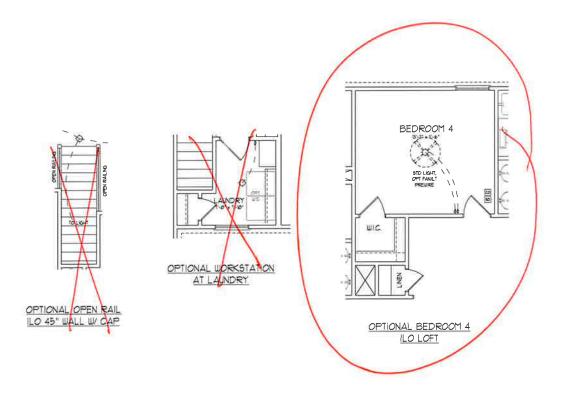
ENGINEERED BY:

REVIEWED BY

SECOND FLOOR ELECTRICAL PLAN

E-2

10 V OUTLET	*
WALL MOUNT LIGHT	≏
CEILING MOUNT LIGHT	0
PENDANT LIGHT	· (P)
RECESSED CAN LIGHT	Ø
HINI CAN LIGHT	Ø
EYEBALL LIGHT	(a)
FLUCRESCENT LIGHT	
2 LAMP, 4" FLUORESCENT LIGHT	=
FLOOD LIGHT	₩
SWITCH	4
3-SAY SUTCH	š
4-WAY SWITCH	4
DITTER SWITCH	8
CONDUIT FOR COMPONENT WRING	-@
SPEAKER	5P
DOORBELL CHIPE	-0
IIØ V SHOKE DETECTOR	80
CO DETECTOR	60
EXHAUST FAN	
LOW VOLTAGE PANEL	
CEILING FAN	X
CEILING FAN LU LIGHT	(F)





J.S.THOMPSON ENGINEERING. INC 606 WADEAVE, SUITE 104 RALEIGH. NC 27605 PHONE. (9.19) 7859 9921 FAX. (9.19) 7859 9921 NC LICENSE NO. C1733



OFTINES ROOM PLANS (ENTINNESS GESIONS,
WHITEAUS AND DIMENSIONS ARE SIBLEGT TO CHANGE
WHITEAUS FORDING SUGGEST STORY OF AND SIGNATURE.
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H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV:: MARCH 30, 2020

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

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ENGINEERED BY:

REVIEWED BY:

SECOND FLOOR ELECTRICAL PLAN OPTIONS

E-2.1

-F-0"

DOUBLE GARAGE

DOOR OPTION

SIDE-LOAD GARAGE OPNON

(NOT AVAILABLE WITH OPTIONAL ONE-CAR GARAGE)

DATE NOVEMBER 2, 2020

SCALE 1/4" - 1:0"

EERING, INC
SOUTE OF TAXABLE NG 27605
9) 7899919 FAX (919) 7899921
LUCENSE NO.: C.(773)

ENGINE E

TOPSAIL H&H HOMES

DRAWN BY H&H HOMES ENGINEFRED BY WITE

> SHEET 2 OF 8 S-1b

MONO SLAB FOUNDATION PLAN

50 MPH ILL TOMATE DESIGN IND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

SO TRAIN ROOT HEIGHT.

NINGERS EAL AFTLE OLT TO

STACKERL COPONISTS, SHARES

SEAL DOES NOT CERTIFY DIPENIONAL
ACCIRACY OR ARCHITECTURAL

ACCIRACY OR ARCHITECTURAL

MILLIONS ROOF SYSTEM

STACKERL DESIGN FER NORTH

CARCAIN RESIDENTIAL CODE, 1998

BOTTON BITT BESCHAL CONSIDERATION TO

CHAPTER AS "FIRCH WARD ZONES" FOR 50

HILLIONS ROOF SYSTEM

BUILDER IS TO FROVIDE FRANCHS

IS THE FROVIDE FRANCHS

IS THE FROVIDE FRANCHS

IS THE FROVIDE FRANCHS

SESSEMBLA CODE, 1998 EDITION

FOR JOHN OF THE MORTH CARCAINA

RESIDENTIAL CODE, 1998 EDITION

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FOR JOHN FOR THE MORTH CARCAINA

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FOR JOHN FOR THE MORTH CARCAINA

RESIDENTIAL CODE, 1998 EDITION

FOR JOHN FOR THE MORTH CARCAINA

RESIDENTIAL CODE, 1998 EDITION

TO AND IN 1997 FIND 51 THE PORT ROOF

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

BIGGERS SEAL APPLIES ONLY TO STRUCTURAL COPPORATE BIGGERS SEAL DOES NOT CASE TO THE COPY OF THE COPY O

4 FEAN ROOF REGIST IN SEES THAN 30 FEAT HUNDS.

SCHEROOK RULLS DESIGNED FOR DE PHYLUBOD.

SILL CLADONS DESIGNED FOR 455 PS AND 36 FEBT (A 1- NOTCLET POSTIME!)

SILL CLADONS DESIGNED FOR ALL PS AND 36 FEBT (A 10- NOTCLET POSTIME!)

AND 14 PS FOR POST PTICLES TO TO TO!

AND 14 PS FOR POST PTICLES TO TO TO!

AND 14 PS FOR POST PTICLES TO TO TO!

AND 14 PS FOR 10- SEE FEBT AND 14- PS FEBT TO TO!

NOTCLET TO TO!

SMALL TWO COS SEEATHING ON ALL

DITEION BALLS OF ALL STORES IN

ACCORDANCE WITH SECTION REGISTS OF

THE NOTE, TOWN EDITION SEE THE WALL

DEACHY NOTES AND DETAILS SEET FOR MORE NOTEMATION.

DERGY SPECIAL TOWN CONTROL TO THE WALL POST AND TOWN AND THE WAS AND THE WAS

(3) 2 x 12 LVL CONT. T

BRACED WALL DESIGN NOTES

- BRACED WALL DESIGN PER SECTION R60210 OF THE NORC
- 20/8 EDITION STONE TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL THE OSB ON ALL EXTERIOR WALLS ATTACHED W BO NAILS SPACED 6" OC ALONG PANEL EDGES AND 12" OC IN THE FIELD.
 "GB REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL
- GB REFERS TO "GYFSUM BOARD" CONTRACTOR IS TO INSTALL
 10" * MIN.) GYPSUM WALL BOARD WHER NOTED ON THE PLANS
 FASTEN GB WITH I I/A" "SCREWS OR I 5/8" NAILS SPACED TI" OC
 ALONG PAREL EDGES AND IN THE FIELD INCLUDING TOP AND
 BOTTOM PLATES.
 BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 180 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
 MINI IN PROPERTION.

BRACED WALL DESIGN

RECTANGLE A SIDE IA (FRONT LOAD) METHOD: CS-WSP/FF/GB TOTAL REQUIRED LENGTH (5,1)
TOTAL PROVIDED LENGTH 216' TOTAL PROVIDED LENGTH: 6' SIDE 2A METHOD: CS-USP TOTAL REQUIRED LENGTH 15.1' TOTAL PROVIDED LENGTH 2066' TOTAL PROVIDED LENGTH: 12' SIDE 3A (SIDE LOAD)
METHOD (5-166)FF/GB
TOTAL REQUIRED LENGTH: 1155'
TOTAL PROVIDED LENGTH: 2012'

RECTANGLE B METHOD: CS-WSP/PF TOTAL REQUIRED LENGTH 456

TOTAL REQUIRED LENGTH 456 SIDE 3B METHOD: C5-III5P TOTAL REQUIRED LENGTH: 3.19' TOTAL PROVIDED LENGTH: 1558'

TABLE 18602.15 MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN (FEET)	(PER TABLE R6023(5)		
	16	24	
UP TO 3	Ϋ́	1	
4'	2	1	
8'	3	2	
12'	5	3	
16'	6	4	

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SFF ? (UNO). ALL TREATED LUMBER TO BE 5'TP ? (UNO.) ALL LOAD BEARING HEADERS TO BE (2) 2 x 6
- INSTALL AN EXTRA JOIST INDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
 UNDOW AND DOOR HEADERS TO BE SUPPORTED
 W/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.)
 SEE TABLE RG02.15 FOR ADDITIONAL KING STUD
- SQUARES DENOTE POINT LOADS WHICH REQUIRE

REQUIREMENTS.

- SOLID BLOCKING TO GIRDER OR FOUNDATION.
 ALL SQUARES TO BE (2) STUDS (UNO)
 FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO
 BE SHEATHED WITH TIME OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT
- JOINTS ELOCRED AND SECURED WITH BUT NAILS AT 3" O.C. ALONE GROGES AND 6" O.C. IN THE FIELD FOR HIGH WIND ZONES, SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDDES WITH (2) ROUS OF BUT NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND IZ" BEYOND CONSTRUCTION JOINTS
- SHALL EXTEND IN "BEYOND CONSTRUCTION JOINTS
 AND SHALL VOYERLAP GINCERS AND DOUBLE SILL
 PLATES THEIR RILL DEPTH.
 ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS
 W SHIPSON ABUILA POOT BASES (OR EQUIAL) AND
 6 x 6 POSTS W ABUIG6 POST BASES (OR EQUIAL) 6 x 6 POSTS W ABUSE POST BASES FOR EQUALY (MO). ALL 4 x A MO 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS AT TOP (MO). FOR FIEDERLASS, ALUMINAM, OR COLUMN ENS. BY OTHERS, SECIRE TO SLAB W (2) PIETAL ANGLES
- USING 2" CONC. SCREUS FASTEN ANGLES TO COLUMNS W/ V4" 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.

DSP - DOUBLE STUD POCKET TSP - TRIPLE STUD POCKET

NOTE:

BCI 45006-18 I-JOISTS MAY BE USED IN LIEU OF TJI 100 I-JOISTS AT THE DEPTH AND SPACING NOTED ON THE PLAN.

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

BRICK SUPPORT NOTES

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

- . (I.L.V.) = LONG LEG VERTICAL.

 LENGTH = CLEAR OPENING

 EMBED ALL ANGLE IRONS MIN 4" EACH SIDE NTO VENEER TO PROVIDE
 BEARNS

 FOR ALL HEADERS 8"-0" AND GREATER IN LENGTH, ATTACH STEEL ANGLE
 TO HEADER WI 12" LAG SCREUS 9 0" OC. 5TAGGERED.

 FOR ALL BROCK SUPPORT PROOF LINES, FASTEN (2) 2 x 10" BLOCKING
 BETWEEN STUDS W (4) 12d NAILS PER PLY. FASTEN A 6" x 4" x 5"6" 5TEEL
 ANGLE TO (2) 2 x 10" BLOCKING W (2) 12" LAG SCREUS 6" 2" OC.

 STAGGERED. SEE SECTION RY 23-821 OF THE 2018 NORC FOR ADDITIONAL
 BROCK SUPPORT INSCRIPTION BRICK SUPPORT INFORMATION.

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

NGINE 606 WADE AVE, SUIT PHONE, (919) 7899 ¬ Ш

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S

ERING, SUITE 104 RALEICH, PROSPING PRICENS PRICE, C1733 RECENCY (1919) TRANSPORTED PRICENS PRICENT PRI

TOPSAIL H&H HOMES

DATE NOVEMBER 2, 2020 SCALE 1/4" - 1'0"

DRAWN BY H&H HOMES

GINEERED BY: WFB

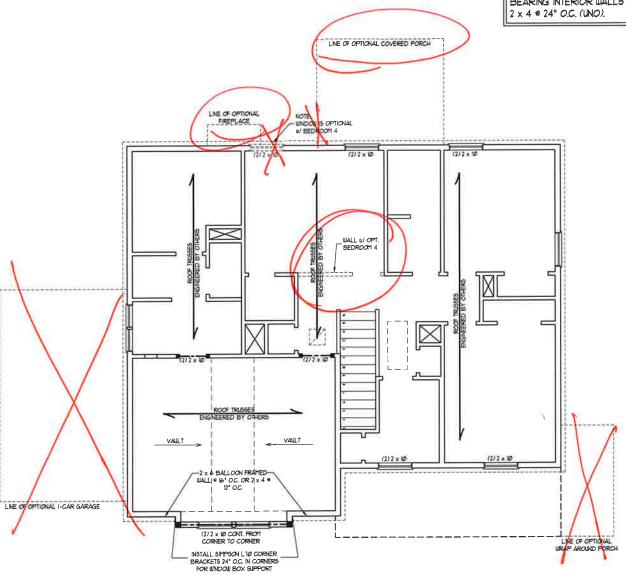
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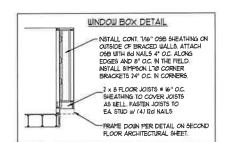
SECOND FLOOR FRAMING PLAN

ORTAL FRAME, SEE METHOD ON SHEET D-2 (3)2 x IZ LVL CONT FROM CORNER W (1) JACKS EA CORNER W (1) JACKS
BEARNA PONT. EA BEARNS PONT. CONTR. 2'-1 1/2" CONTR 2'-0' SIDE-LOAD FILL BETWEEN HEADERS SOLID W KING-STUDS. STRAP HORS, TOGETHER W (2) 5' LONG SIMPSON CSIG COLL STRAPS INSTALLED TOP AND BOTTOM ON INSIDE FACE OF HORS. GARAGE OPTION DOUBLE GARAGE (NOT AVAILABLE WITH DOOR OPTION OPTIONAL ONE-CAR GARAGE)



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







BRACED WALL DESIGN NOTES.

WALL INFORMATION

- BRACED WALL DESIGN PER SECTION R60210 OF THE NORC
- BRACED WALL DESIGN PER SECTION R602 10 OF THE NORC 2006 EDITION

 CS-MSP REFERS TO "CONTINUOUS SHEATHING WOOD

 STRUCTURAL PANELS" CONTRACTOR IS TO NSTALL TINE "OSB
 ON ALL EXTERIOR WALLES ATTACHED W 60 NAILS SPACED 6"

 OC. ALONS PANEL EDGES AND 12" OC. IN THE FIELD.

 GENEFIES TO "STYPSM BOARD" CONTRACTOR IS TO INSTALL

 12" (TIN) GYPSJM WALL BOARD "WHERE NOTED ON THE PLANS
 FASTEN OB WITH IN "A SCREWED OR 1 15" ANALLS SPACED 1" OC.

 ALONS PANEL EDGES AND IN THE FIELD INCLUDING TOP AND

 BOTTOM PLATES

 BRACED WALL DEGES AND IN THE FIELD INCLUDING TOP AND

 BY ALONG PANEL EDGES AND THE PLED IN WIND ZONES UP TO 180 MPH

 FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED

 N ACCORDANCE WITH CHAPTER 45 OF THE NORC 2006 EDITION

 SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED

 WALL INFORMATION.

NOTE:

- PER SECTION R6Ø21Ø32 OF THE 2Ø18 NCRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL
- RECOURED FOR THESH FLOOR AND NO BOSSED WILL SHEATH ALL EXTERIOR WALLS WITH 7/16" OSB SHEATHING ATTACHED WITH 8d NAILS AT 6" OC. ALONG PANEL EDGES AND 12" OC IN THE FIELD.

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

BRICK SUPPORT NOTES:

- I INTEL SCHEDULE APPLIES TO ALL
- LINTEL SCHEDILE APPLIES TO ALL
 OPENNAS IN BRICK VENEER (IMO) SEE
 ARCH DIUGS FOR SIZE AND LOCATION OF
 OPENNAS.
 (LLV) : LONG LEG VERTICAL
 LENGTH = CLEAR OPENNAS
 EYBED ALL ANGLE ROYS MIN A" EACH
 SIDE NTO VENEER TO PROVIDE BEARING.
 FOR ALL HEADERS 8"-0" AND GREATER
 IN LENGTH, ATTACH STEEL ANGLE TO
 HEADER W IV" LAG SCREWS 9 12" O.C.
 STAGGERBUS 10" C.C.
- STAGEFRED.

 FOR ALL BRICK SUPPORT # ROOF LINES,
 FASTEN (2) 2 × 10 BLOCKING BETWEN!

 STUDDS W (4) 10 A ALLIS FER PLY, FASTEN
 A 6 * x 4 * x 5 M6 * STEEL ANGLE TO (2) 2 x
 10 BLOCKING W (2) 10" LAG SORGUS # 12"
 OC. STAGEFRED. SEE SECTION R10"3321

 CF THE 2018 NCRC FOR ADDITIONAL

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

TABLE R602.15 MINIMUM NUMBER OF PULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCHES. (PER TABLE R6/023(5))		
	16	24	
UP TO 3"	1	1	
4'	2	1	
В'	3	2	
12'	5	3	
16'	6	4	

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPF 12 (UNO).
- ALL FRAMING LIMBER TO BE SHE % (MO).

 ALL TREATED LIMBER TO BE SHE % (MO).

 ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UN).

 WINDOW AND DOOR HEADERS TO BE SUPPORTED W (I) JACK STID AND (I) KING STID EACH TO JACK STID AND (II) KING STID EACH SHE PREATLS FOR ADDITIONAL KING STID REQUIREMENTS.

 SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOINDATION. ALL SQUARES TO BE (2) STIDS (UN).
- STUDS (UNO.)
- STUDS (IMO)

 FOR HIGH WIND ZONES, ALL EXTERIOR WALLS
 FOR HIGH WIND ZONES, ALL EXTERIOR WALLS
 FOR HIGH WIND ZONES, ALL EXTERIOR WALLS
 WITH JORING BLOCKED AND SECURED WITH
 BUT MAILS AT 3" OC. A LONG EDGES AND 6"
 OC. IN THE FIELD.
 FOR HIGH WIND ZONES, SECURE ALL
 EXTERIOR WALL SHEATHING PANELS TO
 DOUBLE TOP FLATES, BANDS, JOISTS, AND
 GIRDDERS WITH (2) ROWS OF 80 NAILS
 STAGGERED AT 3" OC. PANELS SHALL
 EXTEND B" BETYOND CONSTRUCTION JOINTS
 AND SHALL OPERLAP GIRDCERS AND
- AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR RULL DEPTH REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

TSP - TRIPLE STUD POCKET

3

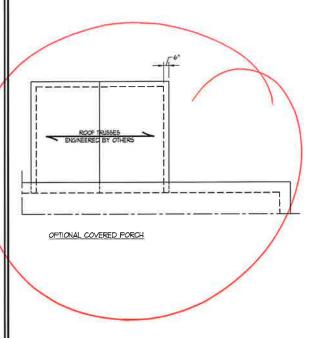
ENGINEERING, PHOMPS 606 WADE AVE, SUITE 104 INALEGIN, N PHONE (1991) 789-991 PAX; (1991) 789 process [1]

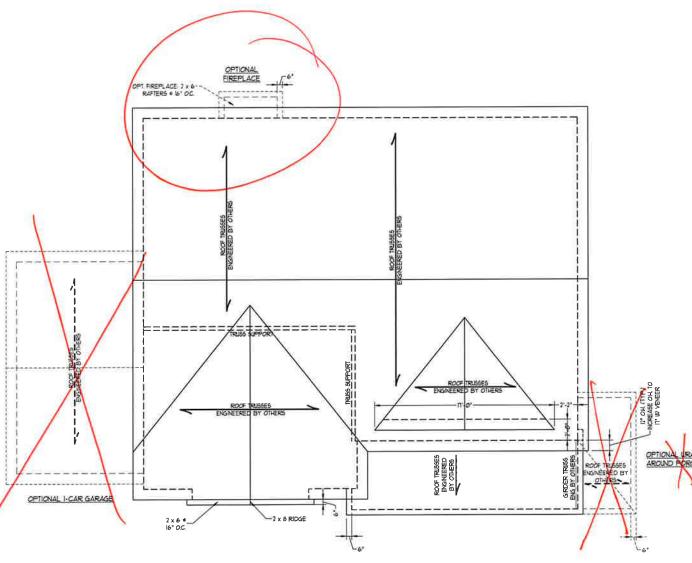
TOPSAIL H&H HOMES

DATE NOVEMBER 2, 2020 SCALE 1/4" = 1'0"

SCHNELRED BY, WEB

SHEET 5 OF 8 S-3 ATTIC FLOOR





ELEVATION A



STRUCTURAL NOTES:

- STRUCTURAL NOTES:

 ALL FRAMING LUMBER TO BE 7'
 SFF (INO).
 CIRCLES DENOTE (3) 2 x 4 POSTS
 FOR ROOF SUPPORT.
 RAME DOPTER BIALLS ON TOP
 OF DOUBLE OR TRIPLE RAFTERS.
 HIP SPLICES ARE TO BE SPACED
 A MIN. OF 8'-9". FASTEN
 MEMBERS WITH THREE ROUS OF
 IZA NALLS & 16" OC. CTOP.
 STICK FRAME OVER-FRAMED
 FOR PROOF SECTIONS WI 2 x 8 FID.
 ROOF SECTIONS WI 2 x 8 FID.
 ROOF SECTIONS WI 2 x 8 FID.
 ROOF SECTIONS WI 2 x 8 FID.
 RAFTERS OR TRUSSES WITH
 SIMPSON HOSE WITH
 SIMPSON HOSE HARDICANE TIES 5
 2" OC. MAX. PASS HURRICANE
 TIES THROUGH NOTCH IN ROOF
 SHEATHING. BEACH RAFTER IS TO
 BE FASTENED TO THE FLAT
 VALLET WITH A MIN OF (6) TOT
 ON NALLET
 WITH A MIN OF (6) TOT
 TOE NALLS
 REFER TO SECTION REQUITED THE
 20'B NORCE FOR REQUITED UP.
 IFT
 RESISTANCE AT RAFTERS AND
 TRISSES.
 REFER TO NOTES AND DETAIL
 SHEETS FOR ADDITIONAL
 STRUCTURAL
 STRUCTURAL
 STRUCTURAL
 INFORMATION

BRICK SUPPORT NOTE:

- FASTEN (2) 2 x lø BLOCKING BETWEEN WALL
 STUDS W (4) 12d NALLS FER FLY. FASTEN A
 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x lø
 BLOCKING W (7) 12" LAG SCREUS 6 12" O.C.
 6TAGGERED. SEE SECTION RTØ3821 .GF
 THE 2080 NORE FOR ADDITIONAL BRICK
 SLPPORT INFORMATION
 2. UNERE ROCF 5 LOTES EXCEED 1:12, INSTALL
 3" x 3" x 14" STEEL FLATE STOPS AT 24"
 O.C. FER SECTION RTØ3821 .GF THE NORTH
 CARDLINA RESIDENTIAL CODE, 2018
 EDITION.

ENGINEERING, INC
606 WADE AVE. SUITE 104 RAIGH. NC. 27605
HONE. (919) 789-9919 FAX. (919) 789-9921
N.C. LICENSENO; C. (733)

TOPSAIL H&H HOMES

DATE: NOVEMBER 2, 2020

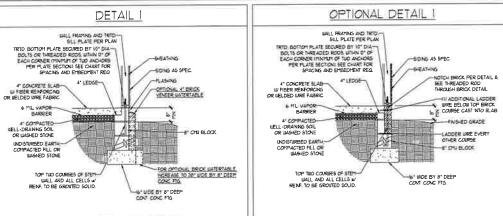
SCALE 1/4" = 1'-0"

DRAWN BY HIGH HOMES ENGINEERED BY WFB

> SHEET 6 OF 8 S4a ROOF FRAMING PLAN

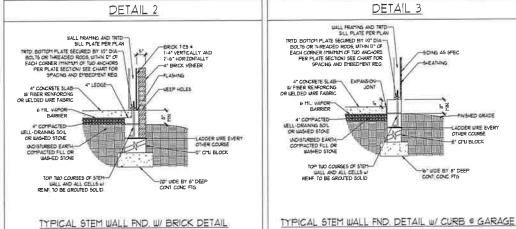
SLAB AT GARAGE DOOR DETAIL

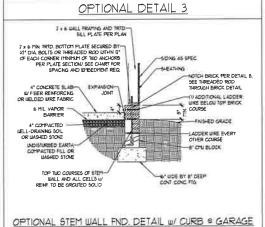
STEMWALL DETAILS



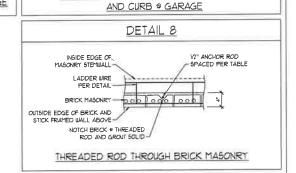
TYPICAL STEM WALL DETAIL (W/ OPTIONAL WATERTABLE) OPTIONAL STEM WALL DETAIL

ENSHED GRADE





DETAIL 4 BILL PLATE PER PLAN PROX TES *
1-4" VERTICALLY AND
2"-6" HORIZONTALLT
4" ERXX VENEER THE BOTTOM PLATE SECURED BY 10" ON-BOLTS OR THREADED ROD WITHIN IT OF EACH CORNER MINITUM OF THE ANCHORS PER PLATE SECTION, SEE CHART FOR SPACING AND EMBEDTENT REA 4° CONCRETE 11.45 W FIBER REINFORCING OR WELDED WIRE FABRIC 4" COMPACTED-LELL-DRAWING SOL OR WASHED STONE OTHER COURSE UNDISTURBED EARTH-COMPACTED FILL OR WASHED STONE TOP TWO COURSES OF STEP WALL AND ALL CELLS IN REINF 10 BE GROUTED SOLID



TYPICAL STEM WALL FND. DETAIL W/ BRICK

MASONRY STEMWALL SPECIFICATIONS MASONRY WALL TYPE WALL HEIGHT (FEET) 4" BRICK AND 4" 4" BRICK AND 8"
CMU CMU 12" CMJ 8" CMU UNGROUTED UNGROUTED 2 AND BELOW INGROUTED GROUT SOLID UNGROUTED GROUT SOLID UNGROUTED UNGROUTED 3 GROUT SOLID W/ 4 REBAR 9 64" O.C. GROUT SOLID II/ 4 GROUT SOLID GROUT SOLID GROUT SOLID W 4 GROUT SOLID W 4
REBAR 9 36" OC REBAR 9 64" OC GROUT SOLID w/ "4 REBAR @ 36" O.C. GROUT SOLID W/ *4 GROUT SOLID W/ *4 REBAR @ 24" O.C. REBAR © 64" O.C. GROUT SOLID w/ 4 REBAR 9 24" O.C.

NOT APPLICABLE

ENGINEERED DESIGN BASED ON SITE CONDITIONS AND GREATER

STRUCTURAL NOTES:

- WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL

 THE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16" OC, VERTICALLY

 CHART APPLICABLE FOR HOUSE FOUNDATION ONLY CONSULT ENGINEER FOR DESIGN OF GARAGE
 FOUNDATION NOT COMPON TO HOUSE

 BACKFILL OF CLEAN \$71 /W I WASHED STONE IS ALLOWABLE

 BACKFILL OF WIELD 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 RUSSI OF THE 708 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

 PRESE \$1.48 PSF RESEAL AND ESONG 25 BASE OF THE 708 INTERNATIONAL RESIDENTIAL CODE,

 INIMITALLY LAP SPILCE LENGTH.
- FINATURI AT LAP SPILLE LENSIH.

 LOCATE REBAR IN CENTER OF POUNDATION WALL.

 LUHERE REQUIRED, FILL BLOCK, SOLID WITH TYPE "5" 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° OC.	4-0-0C		
EMBEDMENT	Ť	15" INTO MASONRY " INTO CONCRETE		

HOMPSON EERING, INC SULTED NG 7869921 LICENSE NO. C.1733 S. TH. S. NG. NE. SU. PHONE. (919) 789 NG. LIC.

MPH ULTIMATE DESIGN FOUNDATION DETAILS MPH - 130 120

D-1



SPI WIND

DATE NOVEMBER 14, 2018 SCALE: NTS DRAWN BY: JST ENGINEERED BY: JES

FOUNDATION DETAILS

GENERAL WALL BRACING NOTES:

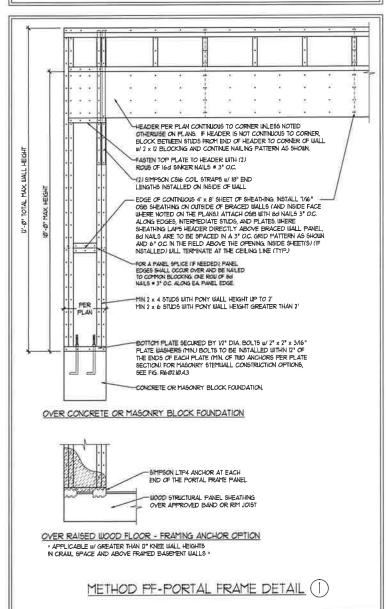
- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 70/18 NC RESIDENTIAL BUILDING CODE (NCRC.).
 TABLES AND FIGURES REFERENCED ARE FROM THE 20/18 NCRC.
 SEE THIS SHEET FOR BENERAL DETAILS. REFER TO THE 20/18 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.
 SEE STRUCTURAL SHEETS FOR PEACED WALL LOCATIONS, PIENSIONS, 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
- 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED

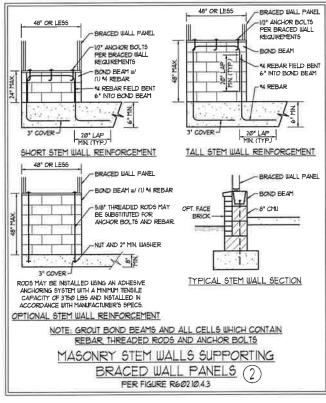
- OTHERWISE

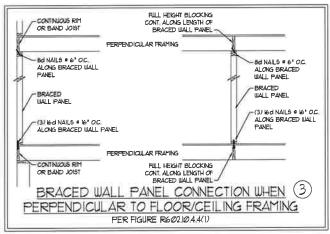
 ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED, WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED PER TABLE R10/23, METHOD GB TO BE FASTENED PER TABLE R0/2/20, METHOD TO THE "COMMINGUS SHEATHING WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 1/16" OSB SHEATHING IS TO BE INSTALLED ON ALLE STRENCE WILLS ATTOCHED W 6d COMMON NAILS OR Rd (12 1/2" LONG X 6/13") DIAMETER! NAILS SPACED 6" OC. ALONG PANEL EDGES AND 18" OC. N THE FIELD (UNIO.)

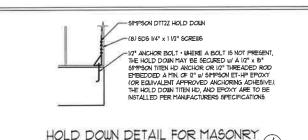
 1. GB REFIELS TO THE "GYPSUM BOARD" WALL BRACING HETHOD. 1/2" (MIN.) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH 1/4" SCREWS OR 1 5/8" NAILS SPACED T" OC. ALONG PANEL EDGES NOLLDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UNIO.) VERET ALL FASTENER OPTIONS FOR 1/2" AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UNIO.) VERET ALL FASTENER OPTIONS FOR 1/2" AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UNIO.) VERET ALL FASTENER OPTIONS OF 1/2" AND SECTIONS OF STATEMED REPORTS OF SASTENER DESIGNATIONS. 5/8" GYPSIM PRIOR TO CONSTRUCTION, FOR INTERIOR FASTENER OPTIONS SEE TABLE RT0235. FOR EXTERIOR FASTENER OPTIONS SEE TABLE BARRAUL EXTERIOR OR TO BE NOTALLED VERTICALLY
- OMITION SEE TABLE REWISH, EXTENDING GO TO BE NOTALLED VENTICALLT.

 REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED FER TABLE
 REQUI, 103, METHOD CS-USP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 ITS ACTUAL LENGTH, AND
 METHOD FF CONTRIBUTES IS TIMES ITS ACTUAL LENGTH.



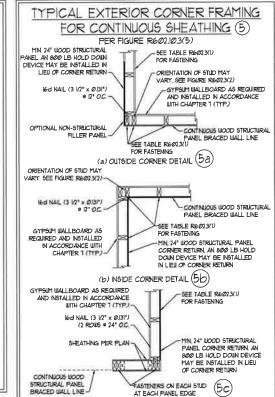






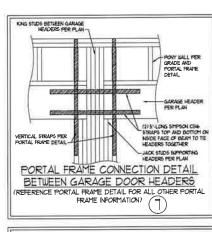
FOUNDATION OR MONOLITHIC SLAB

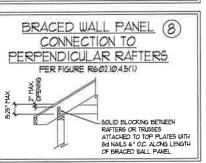
· APPLICABLE ONLY WHERE SPECIFIED ON PLAN .

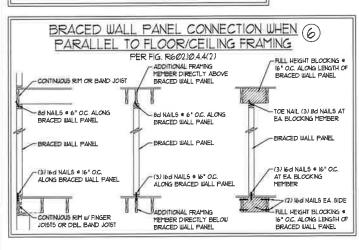


(c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL

STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)







BRACED WALL PANEL CONNECTION TO PERPENDICULAR ROOF TRUSSES PER FIGURE R602.00.45(3) (OR ALTERNATIVE: FIGURE R602.10.4.5(2)) -2 x BLOCKING NAILING PER TABLE 6'-0" MAX

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27605 0 MP C IN G OF RALEIGH, S FAX: (919) 78 E R SUITE 104 789.9919 NGINE E m m

SPEED DESIGN WIND S AND DETAILS ULTIMATE D MPH ULTI BRACING - 130 ALL I MPH. 20

DATE NOVEMBER 14, 2018 SCALE 1/4" - 1'40"

NGINEFRED BY- JST

D-2 BRACED WALL NOTES AND DETAILS AND PF DETAIL

GENERAL NOTES

- FINGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLIMAS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENSINEER'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
- 2 ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2018 EDITION, FLUS 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
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NORG, 2018 EDITION (R3014 R301.1)

1 0 5 1 0 4 D (D)(E)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEPLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	L/240 (L/360 W/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	NO.	L/360
DECK5	40	10	L/36Ø
EXTERIOR BALCONIES	40	10	L/36Ø
FIRE ESCAPES	40	10	L/36Ø
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	10	L/36Ø
PASSENGER VEHICLE GARAGE	5Ø	lø.	L/36Ø
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/36Ø
SLEEPING ROOMS	3Ø	10	1./360
5TAIRS	40	LO .	L/36Ø
WIND LOAD	(BASED ON TABLE R3012)	(4) WIND ZONE AND EXPOSURE)
GROWN SHOULLOAD, Pa	20 (PSE)		

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/4800 - FLOOR TRUSS SYSTEMS DESIGNED WITH IS PSF DEAD LOAD
- FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE 15 TO COMPLY WITH SECTION R403.16 OF THE NORC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE 15 TO COMPLY WITH SECTION 4504 OF THE NORC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NORC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

- 1 FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN THATERIAL REMOVED. FILL MATERIAL SHALL BE RATE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO A SAUGE WINFORM SUPPORT OF THE SLAB, AND EXCEPT UNLESS APPROVED, THE FILE PEPIHS SHALL NOT EXCEPT 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE, SO NOT REQUIRED WHERE A CONCRETE SLAB IS NISTALLED ON MIGHL PARADED OR SAND-CARL MINITURES SUIS CLASSIFICATION STATEM IN ACCORDANCE WITH TABLE RAPS) OF THE NORRO, 2018 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POWRING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" I" DEEP CONTROL JOINTS ARE TO BE SAUED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. COMORETE SUALL COMPORM TO SECTION R4022 OF THE NORC 2018 EDITION, CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. COMMENTE SMALL COMPONENT TO SECTION RIGHTS. THE MERCE, SIZE EDITIONS CONCRETE REPORTING STEEL OF 3" IN POOTINGS AND TIZE IN USE DETAILS CONCRETE WALLS, CONCRETE COVER FOR REPORTING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL SHALL
- 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
- 1. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF 115 RESPECTIVE FOOTING EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- B. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NORG, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NOMA TR68-A OR ACE 530/ASCE 5/TMS 402, MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1(1), R404.1(2), R404.1(3), OR R404.1(4) OF THE NORC, 2018 FOITION, CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1K5) OF THE NORC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED

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DEEL ECTION (NI)

FRAMING NOTES

- 1 ALL FRAMING LUMBER SHALL BE 7 SFF MINIMUM (Fb = 815 PSI, Fv = 315 PSI, E = 16000000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE 72 SYP MINIMUM (Fb = 9T5 PSI, Fv = 175 PSI, E = 16000000 PSI) UNLESS NOTED OTHERWISE (UNO).
- 2. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Po =2600 PSI, Fv = 285 PSI, E = 1900000 PSI LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Pb = 2325 PSI, Fy = 310 PSI, E = 15500000 PSI, PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MAINTUM PROPERTIES: FC = 2500 PSI, E = 18000000 PSI, PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2300 PSI, E = 2000000 PSI, INSTALL ALL CONNECTIONS FER MANUFACTURER'S SPECIFICATIONS.
- 5 STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

W AND WT SHAFES: CHANNELS AND ANGLES: ∆5TM A992 PLATES AND BARS: ASTM A36 HOLLOW STRUCTURAL SECTIONS: ASTM A5000 GRADE B ASTM A53, GRADE B, TYPE E OR 5

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARNS LENSTH OF 3 1/2" AND RILL FLANSE WIDTH (INFO). PROVIDE SOLID BEARNS FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANSE TO EACH SUPPORT AS

(2) 1/2" DIA. x 4" LONG LAG 5CREUS A WOOD FRAMING B CONCRETE (2) I/2" DIA x 4" IIEDGE ANCHORS C. MASONRY (RILLY 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 IS SECURED TO THE TOP OF THE STEEL BEAM w/ (2) ROUS OF SELF TAPPING SCREUS (6) 60, OR, (2) ROUS OF 12° DIAMETER BOLTS (6) 6° OC. IF 12° BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED w/ (2) ROUS OF 9/6° DIAMETER

- 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 R602.15 OF THE NORTH
- 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 BEATHS OR GIRDER TRUSSES PERFENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE I I/2" MINIMUM BEARING (INO). ALL BEAMS OR GIRDER TRUSSES PERFENDICULAR 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 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 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 2016 EDITION WALL BRACING CRITERIA, THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R60210.
- II 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
- Z 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 THE ALL HEADERS SHPTAKING RECK, SUPPORT (UNO). FOR ALL HEADERS 5'-0" AND GREATER IN LENGTH, BOLT A 6' x 4" x 5/6" STEEL ANGLE
 TO HEADER WITH U" LAG SCREUS AT 1" OC. 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 BL, COKING INSTALLED W (4) 12d NAILS EA PLY BETWEEN WALL STUDS WITH (2) ROUS OF 1/2" LAG SCREWS AT IZ" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R103821 OF THE NORC, 2018 EDITION.
- B. 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'-2" FASTEN MEMBERS WITH THREE ROUS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS
- 14. FOR TRUSSED ROOFS: FRAME DOWNER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK RAME OVER-FRAMED ROOF SECTIONS WITH 2×8 RIDGES, 2×6 RAFTERS AT 16" O.C. AND FLAT 2×10 VALLEYS (UNO).
- B. 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 SHIPSON HE OR LIST UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOITOM AND THE BEAM AT THE TOP OF EACH POST, ONE IS' SECTION OF SIMPSON CSIS 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,

3 MPS ING. (919) 76 ENO.: C.1733 O THE 104 S. H. G. N. E. 606 WADE AVE, SUI PHONE. (919) 785

DATE NOVEMBER 14, 2016

SCALE: 1/4" = 1'0"

DRAWN BY JES NGINEERED BY. JST

> S-0 STRUCTURAL NOTES

SPEED DESIGN WIND SURAL NOTES - 130 MPH ULTIMATE DESIC STANDARD STRUCTURAL MPH 120