

NOTICE TO CONTRACTOR construction must comply with current NC Building Codes d is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for

05/13/2020







COVER SHEET

COVER

H HOME

DATE: 10-13-17

REV.: 3-21-19 DRAWN BY: WG ENGINEERED BY

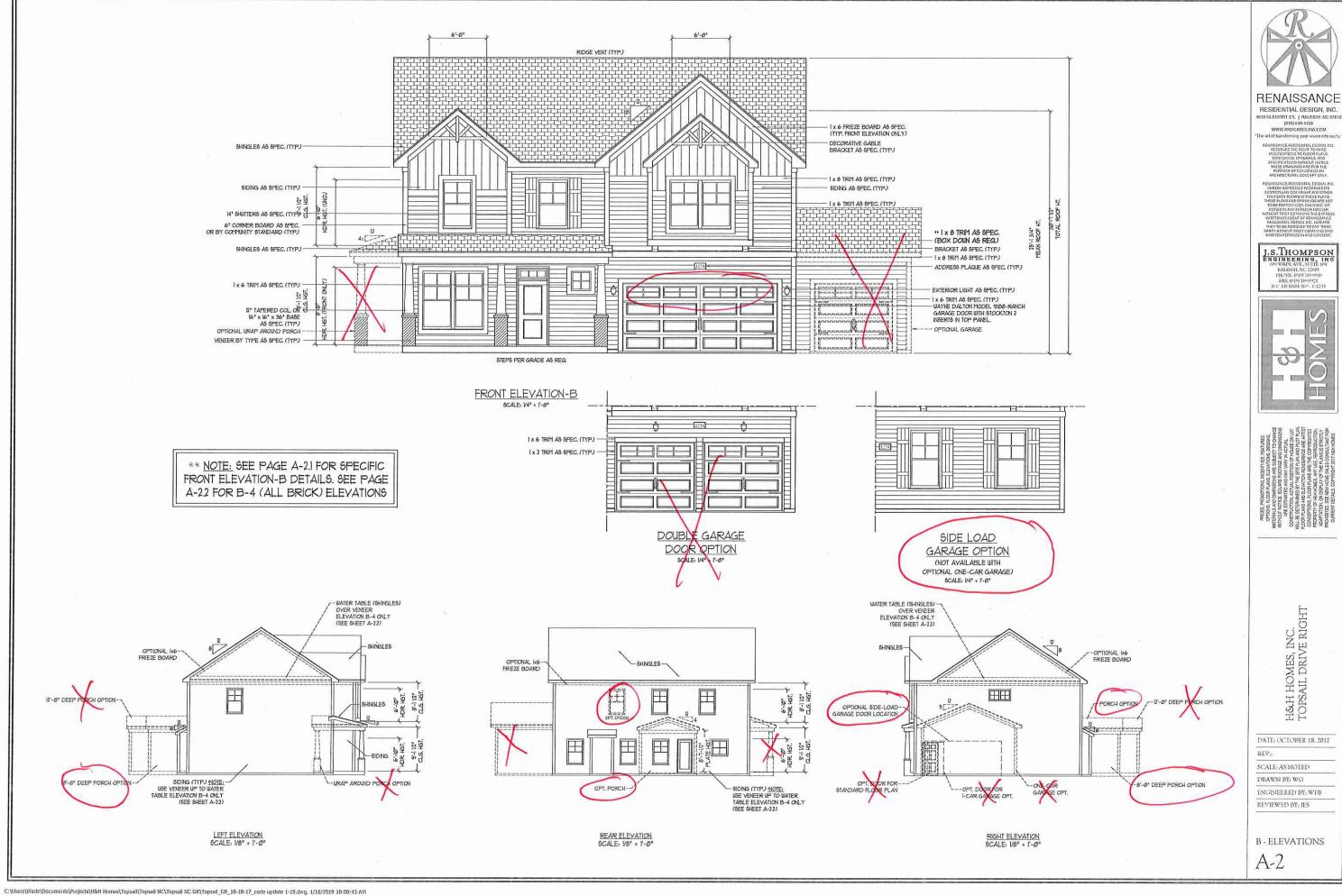
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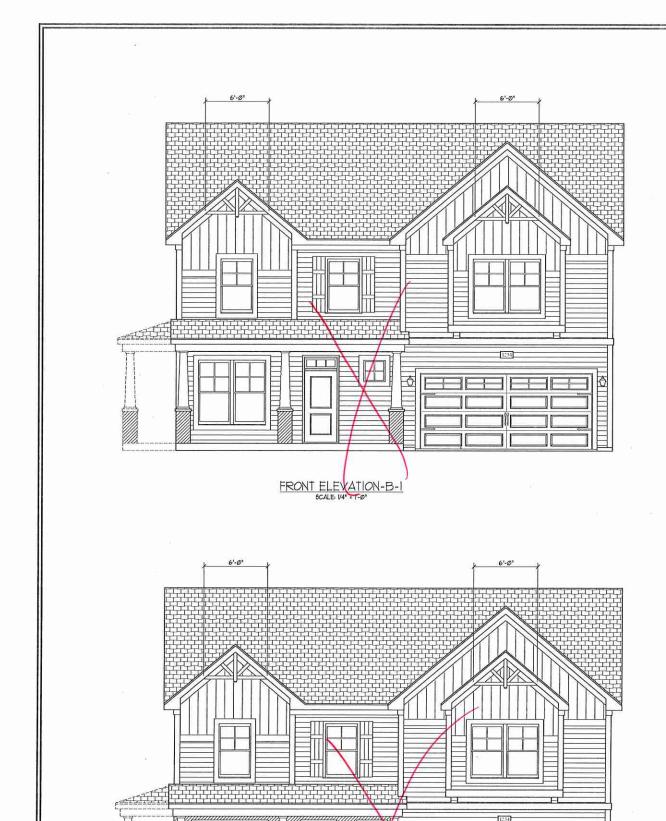
TOPSAIL REVISION LIST - STRUCTURAL:

- 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)

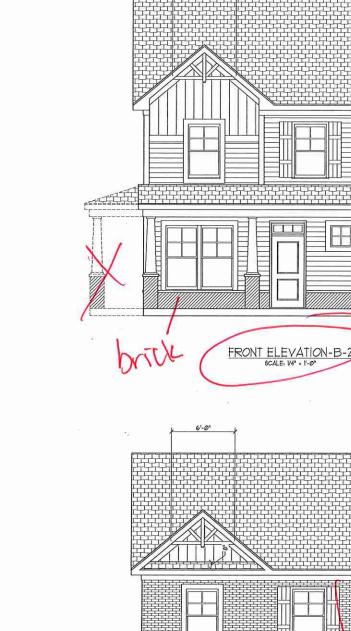
TOPSAIL REVISION LIST - ARCHITECTURAL:

- 1.) WINDOWS CHANGED TO 3-0 WIDTH (5-30-14)
- 2.) STAIR TREADS CHANGED TO 10' (5-30-14)
- 3.) ELECTRICAL PLAN ADJUSTED (7-21-14)
- 4.) MOVED COAT CLOSET FROM FOYER AND RELOCATED PANTRY CLOSET (1-12-15)
- 5.) MOVED SERVICE DOOR TO FRONT OF GARAGE (1-12-15)
- 6.) ADDED FORCH WRAP OPTION, DOUBLE GARAGE DOOR OPTION, 12-0 DEEP REAR PORCH OPTION,
- 12-0 REAR PATIO OPTION (1-12-15)
- 7.) ELIMINATED WING WALL IN FAMILY ROOM (1-12-15).
- 8.) ELIMINATED SIDE WINDOW IN FAMILY ROOM (1-12-15)
- 9.) ADDED ALL BRICK OPTIONS (124-15)
- 10.) ADDED CLOSET UNDER STAIRS.
- 11.) SHIFTED GARAGE ENTRY AND COAT CLOSET TOWARDS FAMILY ROOM 4". (10-17)
- 12.) ELIMINATED SECOND PANTRY FROM KITCHEN EXTERIOR WALL, MADE VALET STD. WITH OPT. SHELVES. (10-17)
- 13.) REMOVED CEILING VAULTS FROM BEDROOMS #2, #3 AND LOFT/ BEDROOM #4. (10-17)
- 14.) ELIMINATED CHASE AT SECOND FLOOR HALL BATH, 111/OVED VANITY DOWN AND ADDED 45° WALL AT TOILET, (10-17)
- 15.) SWAPPED P.D.S. AND RETURN LOCATIONS ON SECOND FLOOR. (10-17)
- 16.) MODIFIED MASTER BATH TO ACCOMMODATE A WATER CLOSET. (10:17)
- 17.) CHANGED FIREPLACE FROM 36" TO 32" (3-19)





FRONT ELEVATION-B-3 SCALE: V4' + 1'-0'



6'-0"



FRONT ELEVATION-B-4 SCALE: 1/4" + 1'-0'



6'-0'

6'-0"

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H&H HOMES, INC. TOPSAIL DRIVE RIGHT

DATE: OCTOBER 18, 2017

REV.: SCALE: AS NOTED

DRAWN BY: WG ENGINEERED BY: WFB

REVIEWED BY: JES

B-ELEVATION OPTIONS

A-2.1

BRICK OR STONE -LEDGE AS SPEC. (TYP.)

BRICK OR STONE -LEDGE AS SPEC. (TYP.)

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

2x6 WALL

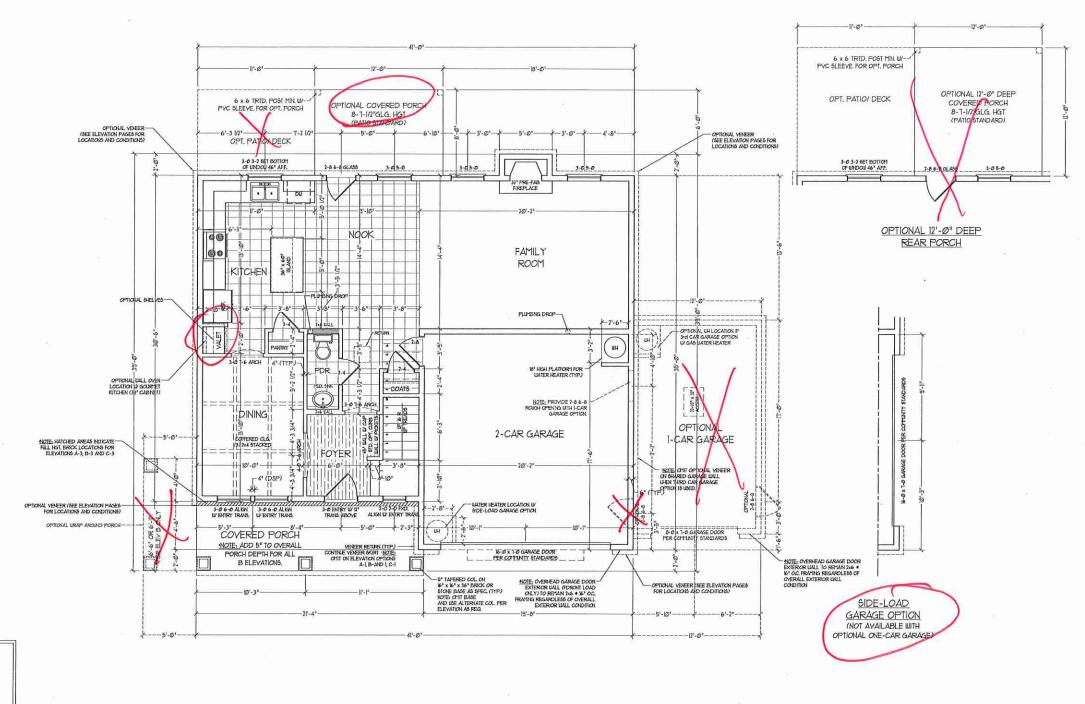
, SHADED WALLS ARE TO BE 2 x 6 @ 16" O.C. (LOAD BEARING) OR 2 x 6 @ 24" O.C. (NON-LOAD BEARING) REGARDLESS OF EXTERIOR WALL CONDITION

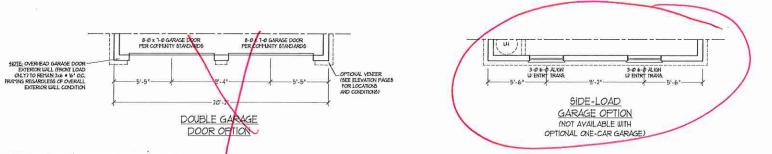
SQUARE FOOTAGE

|st FLOOR: 949 SQ. FT. 2nd FLOOR: |351 SQ. FT. TOTAL: 2300 SQ. FT. FRONT PORCH: |31 SQ. FT. STD. REAR PATIO: 96 SQ. FT. GARAGE: 401 SQ. FT.

SQUARE FOOTAGE (OPTIONS)

999 SQ FT. FIRST FLOOR (BRICK): SECOND FLOOR (BRICK): 1405 SQ. FT. TOTAL (BRICK): 24Ø4 SQ, FT. GARAGE (BRICK): 418 SQ FT. FRONT PORCH (WRAP OPTION): 53 SQ. FT. REAR PORCH (8-0 DEEP). 96 50 FT REAR PORCH (12-Ø DEEP): 144 SQ. FT. OPT. PATIO/ DECK: (8-Ø DEEP): 88 SQ. FT. OPT. PATIO/ DECK: (12-Ø DEEP): 132 SQ. FT. I-CAR GARAGE: 24Ø SQ. FT.







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THESE DEVANIONS ARE FOR THE
FLARCES DE CONVENINS AN
ARCHITECTURAL CONCEST ORLY.

COMMON LAW COP FRONT AND OTH FROPERTY RIGHTS IN THESE PLANS THESE PLANS AND ORNAYOSS ARE IN TO BE REPROCUED, CHANGED, OR COPIED BHAIN FORMOR MANNER WITHOUT FIRST OFFICIAL THE EXPINION WITHOUT FIRST OFFICIAL THE CON-WRITTEN CONSELLY OF REPAISONING FESTIVE ALTERNATION OF A CONTROL OF FESTIVE ALTERNATION OF A CONTROL OF FESTIVE ALTERNATION OF A CONTROL OF THE CONTROL OFFICIAL OFFI AND A CONTROL OF FESTIVE ALTERNATION OF A CONTROL OF THE CONTROL OFFI AND A CONTROL OF FESTIVE ALTERNATION OF A CONTROL OF FESTIVE ALTERNATION OF A CONTROL OF FESTIVE ALTERNATION OF THE CONTROL OF THE CONTROL OFFI AND A CONTROL OF THE CONTROL OF THE CONTROL OFFI AND A CONTROL OFFI AND A CONTROL OF THE CONTROL OFFI AND A CONTROL OF THE CONTROL OFFI AND A CONTROL OFFI AND A CONTROL OF THE CONTROL OFFI AND A CONTRO

J.S.THOMPSON ENGINEERING, INC 406 WADE AVE, SUITE 104 RAILEIGH, NC 27693 PROVES (ADD 25600010



PIPIDOS (LOOR PLANS ELECTRON SESSIONS)

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H&H HOMES, INC. TOPSAIL DRIVE RIGHT

DATE: OCTOBER 18, 2017 REV.: SCALE: 1/4*=150*

DRAWN BY: WG ENGINEERED BY: WFB

REVIEWED BY: JES

FIRST FLOOR PLAN

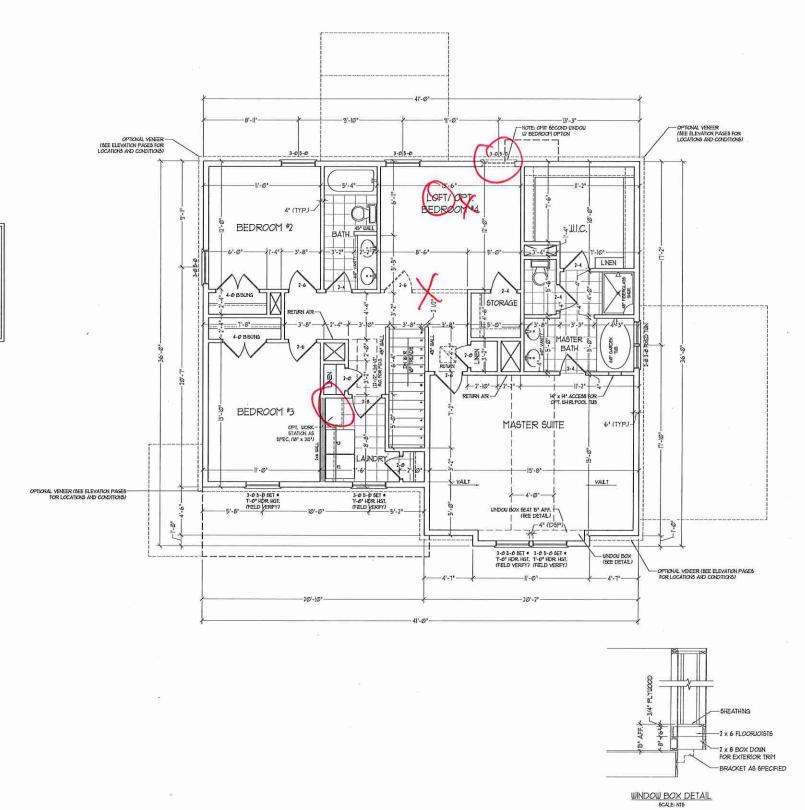
A-4

C.) Uters/Wade/Documents/Pro/scts/HGH Homes/Top/sci/Top/sci/ NC/Top/sci/ NC GR/Top/sci/ GR 10-18-17 (ede update 1-19,dwg, 3/71/2019 6:36:03 API

NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 a 16" O.C. (UNO), 2 x 4 a 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).

2x6 WALL

· SHADED WALLS ARE TO BE 2 x 6 @ 16" O.C. (LOAD BEARING) OR 2 x 6 @ 24" O.C. (NON-LOAD BEARING) REGARDLESS OF EXTERIOR WALL CONDITION





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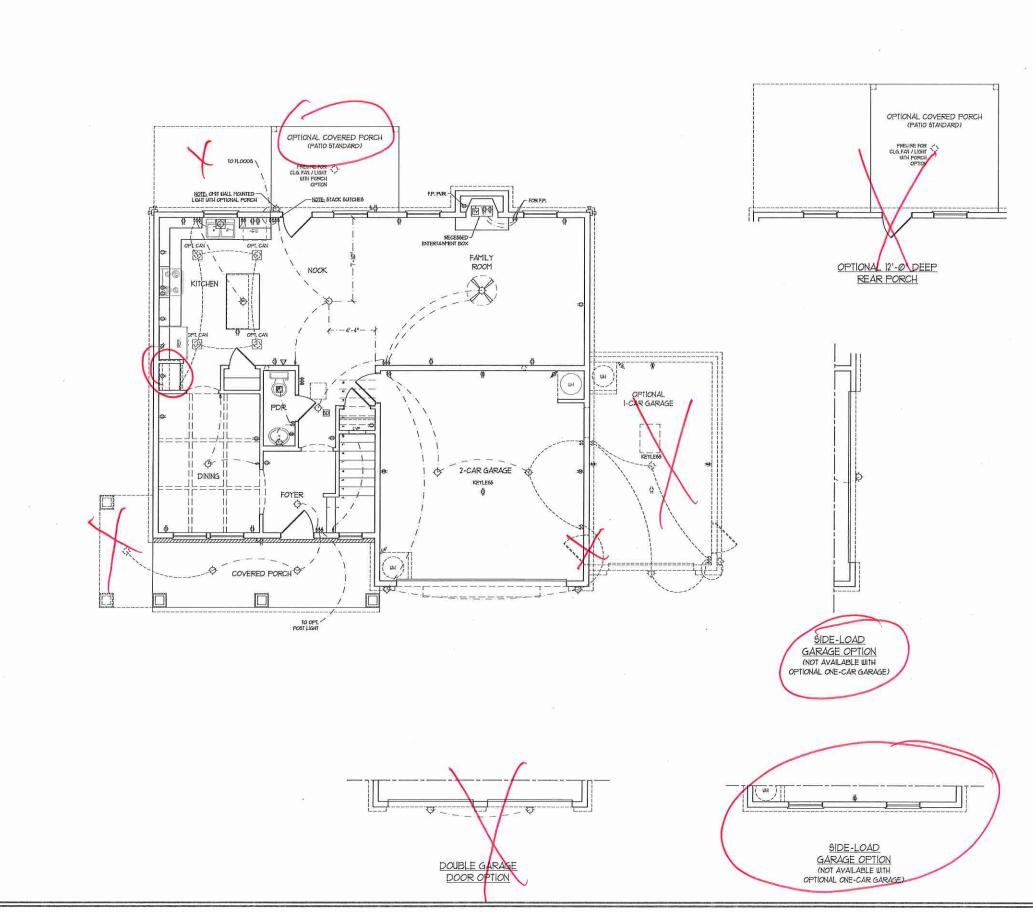
SCALE: 1/4"=1'-0" DRAWN BY: WG

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REVIEWED BY: JES

SECOND FLOOR PLAN

A-5



R

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PURPOSE OF CONVEYING AN

HERBY EATRESSEY RESERVES ITS COMMONLAW COPENING HAND OTHER PROPERTY RICKING BY THESE PLANS. THESE PLANS AND DRAWNESS ARE 1001 TO BE REPROCUEDD, CHANGED, OR COSTED WAYN FORM OR MANIGE WITHOUT PREST CETAIN THE EXPRESS WITHER LOCKEDED OF BRANSSAMME RESIDENTIAL DESIGN, BYOL, JOS ARE THEY TO BE ASSIGNED OWN THEM.

J.S.THOMPSON ENGINEERING, IN 606 WADLAYE, SUITE 104 RALEIGH, NC 27605 PHONE (#10) 750-0916 FAX: (#10) 750-0921



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DATE: OCTOBER 18, 2017

REV.:

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

ENGINEERED BY: WFB

FIRST FLOOR ELECTRICAL

PLAN E-1

ELECTRICAL LAYOUT NOTES:

DELOCK AND USE FOR ALL
CELNS FAS FER PLAN.

2) YAVITY LISHTS TO BE SET • 90° AFF, (TYP).

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

ELECTRICAL LEGEND

⇔ to yourlet

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= 10 Y GFI CUITLET

ELEATHERPROOF

20 V OUTLET

10 V DEDICATED CIRCUIT

20 V DEDICATED CIRCUIT

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FLICRESCENT LIGHT

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\$ 1 4-14Y SUITCH

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D- DOORBELL CHINE
Ed No y smoke detector

ENAUST FAN

LOU YOLTAGE PAVEL

(\$40 V, ETC.)



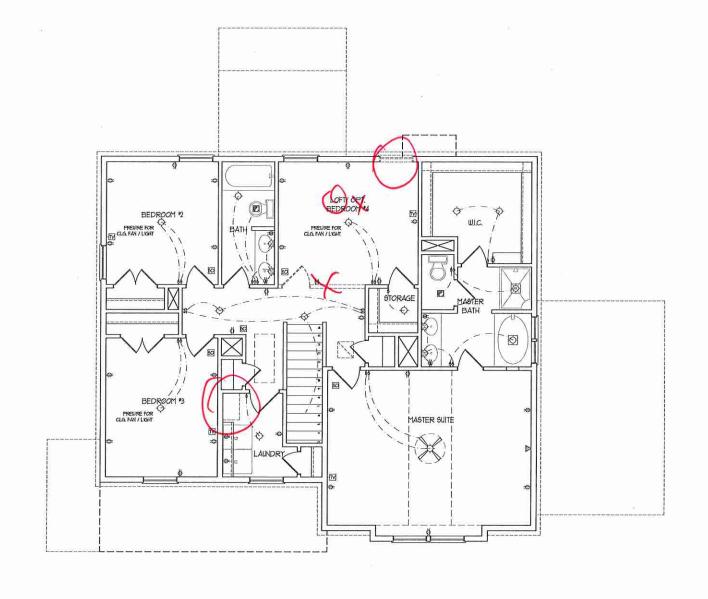
ELECTRICAL LEGEND

- S TO Y CUTLET
- E TO Y GH CUTLET
- : TO Y SUTGED OUTLET 80 CF TO Y BASEBOARD OUTLET
- 4 4-PLEX
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- EATHERPROOF
- ⇒ 220 V CUITLET
- IN Y DEDICATED CROSH
- # 200 V DEDICATED CIRCUIT
- OH SPECIAL PURPOSE (240 V, ETC.)
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- RECESSED CAN LIGHT
- MNI CAN LIGHT EYEBALL LIGHT
- TUORESCENT LIGHT

III UNDERCABNET LIGHT

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- △ TELEPHONE
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- E- CONDUIT FOR COMPONENT WINNS
- 6FEAKER
- D- DOORSELL CHITE
- ID Y SMOKE DETECTOR DOLALIST FAN
- LOW YOUTAGE PAYEL







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REV.:

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

DRAWN BY: WG ENGINEERED BY: WFB

REVIEWED BY: JES

SECOND FLOOR ELECTRICAL

PLAN E-2

FOUNDATION VENTILATION CALCULATION

949 SQ FT, OF CRAIL SPACE DIVIDED BY 949 5Q. FT. OF CRAILL SPACE DIVIDED BY ISOD EGUIAL 6 OF SQ. FT. OF NET FREE AREA REQUIRED. INSTALL 6 MIL POLY TO COVER ENTIRE CRAILL SPACE. LOCATE VENTS WITHIN 3"O OF EACH CORNER OF THE BUILDING TO PROVIDE CROSS-VENTILATION

50 MPH ULTIMATE DESIGN UND 6FEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

- DIGNEERS SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS, ENGINEER'S SEAL DOES NOT CERTIFY DIPENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT NOLLOING ROOF SYSTEM STRUCTURAL DESKIN PER NORTH
- CARCINA RESIDENTIAL CODE, 76/8
 EDITION WITH SPECIAL CONSIDERATION TO
 CHAPTER 45 ("NIGH WID ZOAES" FOR BO
 HTH WIDS).
- SEA THE AD IN THE AD TH

- HEAR ROOF HEIGHT IS LESS THAN 30 HET. UALL CLADONG DESIGNED FOR 943 PER AD -31 PER (4* NOICATE POSITIVE / NEGATIVE PRESIGNE (TYP). NOOF CLADONG DESIGNED FOR 973 PER AND -38 PER FOR ROOF PITCHES 103 TO DAT AND 44 PER AD -51 PER FOR ROOF PITCHED 275/9 TO 1/0.
- 1/6" OSB SIEATHING IS REQUIRED ON ALL
- TOP ONE SHEATING IS REQUIRED ON ALL BUTLES ULLLS.

 BUTLES TO BE BRACED IN ACCIONANCE WITH BECTION REGISTED OF THE NORTH CARCA, NA RESIDENTIAL CODE, 16/8 EDITION AND AS NOTED ON PLANS.

 DERGY SPECIAL CODE, 16/8 DERGY SPECI BE IN ACCORDANCE WITH CHAPTER II OF THE NORC, 2018 EDITION

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

- DEMERS GEL, APPLES OLY TO
 STELLINAL COTPORNIS DEMERS GEAL
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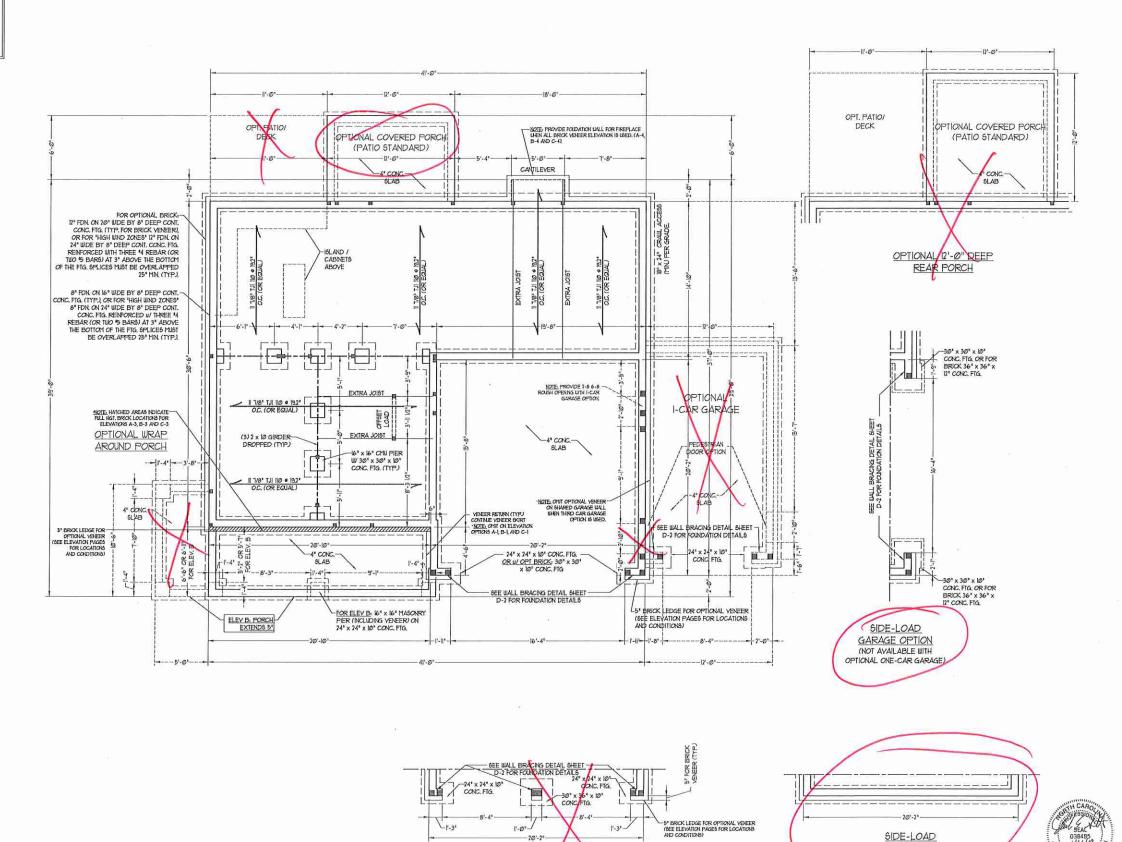
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 5. MALL CALDDING DESIGNED FOR 405 PER INDIA 0-10 PER (- NDICATE POSITIVE / NEXT PER POSITIVE / NEXT PER POSITIVE / NEXT PER POSITIVE / NEXT PER POSITIVE / NOT CALDDING DESIGNED FOR 40 PER AND -16 PER FOR POSITIVE / NOT 10 PER POSITIVE / NOT 10 PENDES OF 10 PENDE
- EXTENSION UNLIS OF ALL STONES IN OF ACCORDANCE UITH SECTION RESOLUTED IN ACCORDANCE UITH SECTION RESOLUTED IN ACCORDANCE AND DETAILS SHEET FOR HORE MORTATION. DETAILS SHEET FOR MORE MORTATION. COMPLIANCE AND MULES OF THE BULDING TO BE IN ACCORDANCE UITH CHAPTER IL OF THE MUCH AND AC

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE 12 SET (UNO), ALL TREATED LUMBER TO BE 7 SYP (UNO) NSTALL AN EXTRA OR DOUBLE
- JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS. SOUARES DENOTE PONT LOADS
- WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION SHADED PIERS TO BE FILLED
- SALDED PIERS TO BE FILLED SOLID.

 NOTALL LADDER WIRE 16 ° O.C. TO SECURE MULTIPLE WITHE FOUNDATION WALLS TOGETHER. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.



DOUBLE GARAGE

DOOR OPTION



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H&H HOMES, INC. TOPSAIL DRIVE RIGHT

DATE: OCTOBER 18, 2017

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

DRAWN BY: WG ENGINEERED BY: WFB

REVIEWED BY: JES

CRAWL FOUNDATION PLAN

S-1

GARAGE OPTION

(NOT AVAILABLE WITH

OPTIONAL ONE-CAR GARAGE)

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R601/10 OF THE NCRC 1016 EDITION. CS-WSP REFERS TO "CONTINUOUS SHEATHING WOOD
- CS-USP REFIRS TO "CONTINUOUS SHEATHING UDOOD STRUCTURAL PAWELS" CONTRACTOR IS TO INSTALL TIME" OSB CN ALL EXTERIOR WALLS ATTACHED W BU NAULS SPACED 6" OC. AL CASE PAYEL EDGES AND IS" OC. IN THE FIELD 4GB REFERS TO "GYPSHI BOARD" CONTRACTOR IS TO INSTALL IN" (THIN GYPSHI WALL BOARD WERE NOTED ON THE PLAYS. FASTEN GB WITH I JUST SCREWED OR I 150" NAILS SPACED TO "OC. AL CASE PAYEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.

 BRACED WALL DESIGN APPLIED IN WAD ZONES UP TO BO MYNING BUSINESS.
- FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NORC 2018 EDITION. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED

BRACED WALL DESIGN

RECTANGLE A	RECTANGLE B
SIDE IA (FRONT LOAD)	SIDE IB
METHOD: CS-WSP/FF/GB	METHOD: C5-WSP/PF
TOTAL REQUIRED LENGTH: 15.1"	TOTAL REQUIRED LENGTH: 456
TOTAL PROVIDED LENGTH: 216'	TOTAL PROVIDED LENGTH: 6"
SIDE 2A	SIDE 2B
METHOD: C5-WSP	METHOD: C5-WSP
TOTAL REQUIRED LENGTH: 15.11	TOTAL REQUIRED LENGTH: 456
TOTAL PROVIDED LENGTH: 2066'	TOTAL PROVIDED LENGTH: 12'
SIDE 3A (SIDE LOAD)	5IDE 3B
METHOD: C5-W6P/FF/GB	METHOD: C5-WSP
TOTAL REQUIRED LENGTH: 1155'	TOTAL REQUIRED LENGTH: 3.19"
TOTAL PROVIDED LENGTH: 20.12"	TOTAL PROVIDED LENGTH: 1551
SIDE 4A	SIDE 4B/3A CUMULATIVE
METHOD: C5-WSP	METHOD: C5-W5P/GB
TOTAL REQUIRED LENGTH: 1155"	TOTAL REQUIRED LENGTH: 70.7
TOTAL PROVIDED LENGTH: 351	TOTAL PROVIDED LENGTH- 3145

TABLE R602.15 MINMUM NUMBER OF RULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN	MAXIMIM STUD SPACING (INCHES) (PER TABLE R607.3/5)	
(PEE12	16	24
UP TO 3'	1	1
4'	2	1
B'	3	2
12'	5	3
161	6	2

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SFF 12 (UNO), ALL
- TREATED LUMBER TO BE SYP 2 (UNO.) ALL LOAD BEARN'S HEADERS TO BE (2) 2 x 6
- (UNO).
 NSTALL AN EXTRA JOIST UNDER WALLS PARALLEL
 TO FLOOR JOISTS WERE NOTED ON THE PLANS.
 WINDOW AND DOOR HEADERS TO BE SUPPORTED II/ (1) JACK STUD AND (1) KING STUD EA END (UNO.). SEE TABLE R602.15 FOR ADDITIONAL KING STUD
- SECUREPENTS.

 SCHARES DENOTE PONT LOADS WHICH REQUIRE

 SCLID BLOCKING TO GIRDER OR FOUNDATION

 ALL SCHARES TO BE (2) STUDS (UNO)
- FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO DE SHEATHED WITH TAB' OSB SHEATHING WITH
 JONTS 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 BUT MILES STAGGERED AT 3" OC. PARELS
 SHALL EXTEND I2" BEYOND CONSTRUCTION JOINTS
 AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR FULL DEPTH.
- PLATES THEIR FULL DEPTH.
 ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS
 W SINTROM ABU44 POST BASES (OR EQUAL) AND
 6 x 6 POSTS W ABU66 POST BASES (OR EQUAL)
 (INO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLET CONNECTORS AT TOP (UNO.)
- CONCESSION 107 TUNON, 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 AND ES 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.

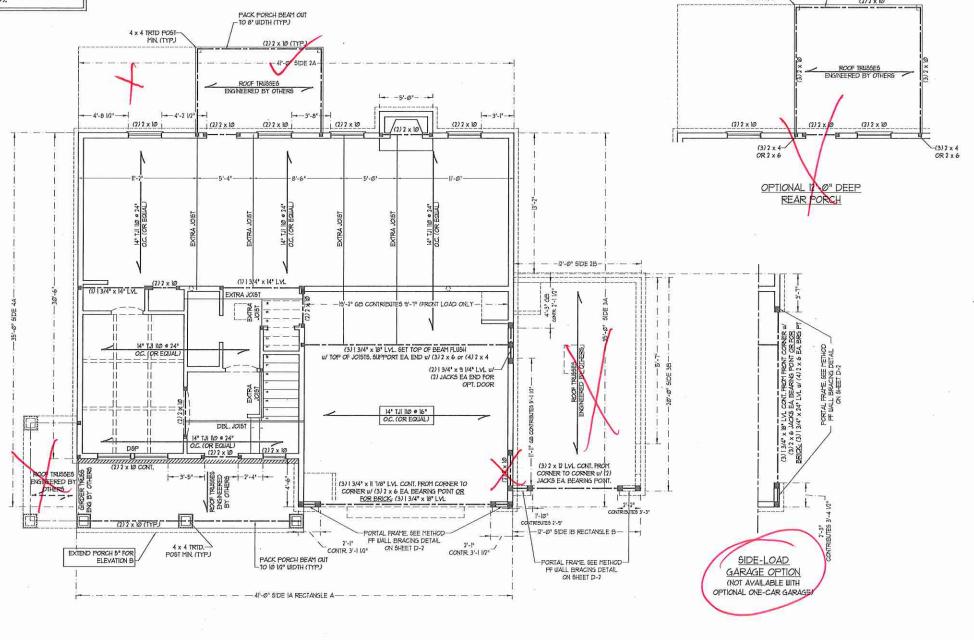
DSP - DOUBLE STUD POCKET

LINTEL SCHEDULE FOR BRICKMATURAL STONE SUPPORT		L LINTEL SCH SEE ARCH
LENGTH (FT.)	SIZE OF LINTEL	2. (LLV) = Lo 3. LENGTH = 4. EMBED AL BEARNS
UP TO 4 FT.	L 3 1/2 x 3 1/2 x 1/4	5. FOR ALL I TO HEADE 6. FOR ALL E
4-8	L 5 x 3 1/2 x 5/16 LLV	BETWEEN S ANGLE TO STAGGERE
8 AND GREATER	L 6 x 4 x 5/16 LLV	1. PRECAST F BE USED IN

NOTES:

- DULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO), MUGS, FOR SIZE AND LOCATION OF OPENINGS. LEG VERTICAL
- EAR OPENING
- ANGLE IRONS MIN. 4" EACH SIDE INTO VENEER TO PROVIDE
- ADERS 8'-0" AND GREATER IN LEWSTH, ATTACH STEEL ANGLE WY '0" LAG SCREUS 6 "0" O.C. STAGGERED. SCK SEPPORT IN ROCO LINES, FASTEN (2) '1 x 10" BLOCKING UDS W' (4) 12d NAILS FER FLY. FASTEN A 6" x 4" x 5/6" STEEL JO x 100 LAG SCREW W' (2) 10" LAG SCREUS 6" 0" O.C. SEE SECTION RY03-82J OF THE 20'8 NORC FOR ADDITIONAL
- NFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY IFU OF STEEL | INTELS

NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 @ 16" O.C. (UNO), 2 x 4 9 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

FF WALL BRACING DETAIL ON SHEET D-2

CONTR 2

DOUBLE GARAGE

DOOR OPTION

(3) 2 x 2 LVL CONT. FROM

CORVER W/ (2) JACKS EA.

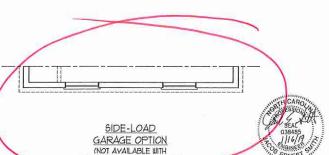
CONTR 2'-1 1/2"

-FILL BETWEEN HEADERS SOLID W KING STUDS, STRAP HORS, TOGETHER W (2) 5' LONG SIMPSON CSIG COIL STRAPS INSTALLED TOP AND BOTTOM ON INSIDE FACE OF HORS,

(3) 2 x 12 LVL CONT. TO

EA BEARING PONT.

CONTR 2'-1 1/2"



OPTIONAL ONE-CAR GARAGE



RENAISSANCE

PACK PORCH BEAM OUT TO 8' WOTH (TYP)

6 x 6 TRID POST

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SECOND FLOOR FRAMING PLAN

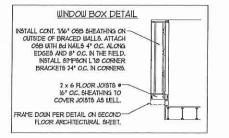
S-2

BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO). (2) 2 × 10 (2) 2 × 10 (2) 2 × 10 OPT. ENGINEERED BY OTHERS (2) 2 x 10 (2) 2 x 10 2 v d BALLOON FRAMET

WALL | 0 16' O.C. OR 2 | x 4 0

(2) 2 x lØ CONT, FROM CORNER TO CORNER INSTALL SIMPSON LTØ CORNER

BRACKETS 24" O.C. IN CORNERS FOR WINDOW BOX SUPPORT



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 > 4 @ 16" O.C. (UNO) AND NON-LOAD

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R60210 OF THE
- BRACED WALL DESIGN FER SECTION R6@1/@ OF THE NCRC 19/8 EDITION.

 CS-USP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTUREAL PAYELS" CONTRACTOR 16 TO NOTALL 11/6" OSB ON ALL EXTERIOR WALLS ATTACHED W 26 MAIL SPACED 6" OC. ALONG PAYEL EDGES AND 12" OC. IN THE FIELD.

 GB REFERS TO "GYPSUM BOARD" CONTRACTOR 16 TO NOTALL 1/1" (MIN) GYPSUM WALL BOARD WERE NOTED ON THE FLANS.

 RASTEN GB WITH 11/4" SCREWS OR 15/6" NAILS SPACED 1" OC.

 ALONG BASINE EDGES AND NIE EIGE IN NAILS SPACED 1" OC.
- FASTEN GB WITH I M* SCREWS OR I 5/8* NAILS \$FACED 1* O.C.
 ALOKIS PAXIE. EDGES AND IN THE FIELD INCLUDING TOP AND
 BOTTOM PLATES.
 BRACED WILL DESKIN APPLIED IN WIND ZONES UP TO 130 MPL
 FOR HIGH WIND ZONES, BRACE WILL 16 ARE TO BE CONSTRUCTED
 IN ACCORDANCE WITH CHAPTER 45 OF THE NICRO ZOID EDITION.
 SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED
 WILL INCREMENTATION.

NOTE:

- L PER SECTION R602/032 OF THE 2018 NORC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS REQUIRED.
- AVIL. 1010 ID NECUNIED.

 2. SHEATH ALL EXTERIOR WALLS WITH 1/16" OSD SHEATHING ATTACHED WITH BOT NAILS AT 6" O.C., ALONG PAYEL EDGES AND 12" O.C., IN THE FIELD.

	CHEDULE FOR AL STONE SUPPORT
LENGTH (FT.)	BIZE 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
 OPPINISS IN ERICK VENEER (INO). SEE
 ARCH DUSS, FOR SIZE AND LOCATION OF
 OFFINISS.
 (ILLY) LONG LEG VERTICAL
 LEVATH CLERA OPPINIS
 EMPED ALL ANGLE IRONS MM 4" EACH
 ANGLE DUSSES AND A SEACH

- EMERO ALL ANSLE IRA'S MA 4" EACH SIDE INTO VENERE TO PROVIDE BEARNA. FOR ALL HEADERS 8"-6" AND GREATER IN LEWSTH, ATTACH SITEL ANGLE TO HEADER WIT IN" LAS SCREWS 6" IN" O.C. STAGGERED.

 FOR ALL BRICK SUPPORT 8" ROOF LINES, FASTEN (2)" 2" X 10" BLOCKING BETWEEN STUDS W. (4)" IZM ANILS FOR PLY, FASTEN A 6" x 4" x 506" BTEL ANGLE TO (2)" 2" X 10" BLOCKING BETWEEN STUDS W. (4)" IZM ANILS FOR PLY, FASTEN A 6" x 4" x 506" BTEL ANGLE TO (2)" 2" X 10" BLOCKING BETWEEN 8" IZM BLOCKING WIT IN AS SCREWS 8" IZM BLOCKING WIT IN ASSETT IN

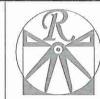
TABLE R600.15 MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN (FEET)	MAXIMIM STUD SPACING (INCHE (PER TABLE R6003(5)		
ULLIV	16	24	
UP TO 3'	1	17	
4'	2	1	
8'	3	2	
n,	5	3	
16'	6	4	

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SEE 12 (UNO).
- ALL FRAMINS LUMBER TO BE 65F 7 (MO).
 ALL LOAD BEARN'S HEADERS TO BE (2)7 x 6 (MO).
 ALL LOAD BEARN'S HEADERS TO BE (2)7 x 6 (MO).
 WINDOW AND DOOR HEADERS TO BE SUPPORTED W (1) JACK STUD AND (1) KNY 5 TID A EAST TABLE R697.15 FOR ADDITIONAL KING 5TUD REQUIREMENTS, SOURCES DENOTE FORM LOADS WHICH REQUIRES SOLID BLOCKING TO GIRDER OR EXPLICATION, ALL SOLIDERS TO BE (2)
- FOUNDATION, ALL SQUARES TO BE (2) STUDS (UNO.)
- STUDS (INO)
 FOR HIGH WIND ZONES, ALL EXTERIOR WALLS
 TO BE SHEATHED WITH TIME" COS SHEATHING
 WITH JOINTS BLOCKED AND SECURED WITH
 REAL NAILS AT 3" O.C. ALONG EDGES AND 6" OC IN THE FIELD.
- O.E. IN THE FIELD.
 FOR HIGH WIND ZONES, SECURE ALL
 EXTERIOR WALL SHEATHING PAYELS TO
 DOUBLE TOP PLATES, BANDS, JOISTS, AND
 GIRDERS WITH (2) ROUS OF 8d NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND IZ" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR RILL DEPTH.
 REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

TEP - TRIPLE STUD POCKET



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ENGINEERED BY: WFB REVIEWED BY: JES

> ATTIC FLOOR FRAMING PLAN

S-3





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DATE: OCTOBER 18, 2017

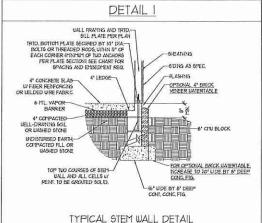
REV.: SCALE: 1/4"=1'-0"

DRAWN BY: WG ENGINEERED BY: WFB REVIEWED BY: JES

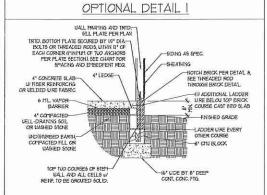
ROOF PLAN ELEVATION - B

S-4

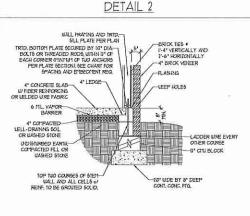
STEMWALL DETAILS

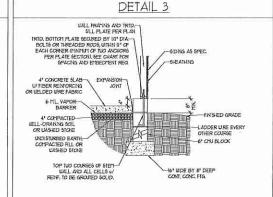


(W/ OPTIONAL WATERTABLE)

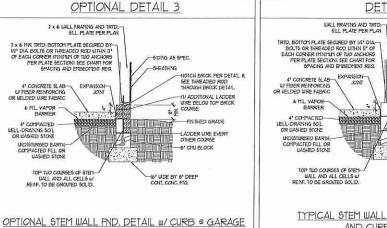


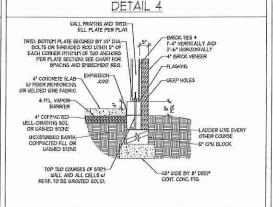
OPTIONAL STEM WALL DETAIL



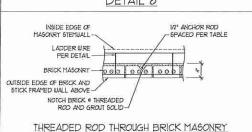


TYPICAL STEM WALL FND. W/ BRICK DETAIL TYPICAL STEM WALL FND. DETAIL W/ CURB @ GARAGE





TYPICAL STEM WALL FND. DETAIL W/ BRICK AND CURB @ GARAGE DETAIL 8



MASONRY STEMWALL SPECIFICATIONS MASONRY WALL TYPE WALL HEIGHT 4" BRICK AND 4" 4" BRICK AND 8" 12" CMJ 8" CMJ 2 AND BELOW UNGROUTED GROUT SOLID UNGROUTED UNGROUTED 3 UNGROUTED GROUT SOLID UNGROUTED UNGROUTED GROUT SOLID u/ *4 REBAR # 64" O.C. GROUT SOLID GROUT SOLID GROUT SOLID u/ 14 GROUT SOLID u/ 14 GROUT SOLID u/ 14 NOT APPLICABLE REBAR # 36' O.C REBAR # 36" O.C. REBAR # 64" O.C GROUT SOLID u/ 14 REBAR 6 64" O.C. NOT APPLICABLE REBAR # 24" O.C. AND GREATER ENGINEERED DESIGN BASED ON SITE CONDITIONS

STRUCTURAL NOTES:

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

. TIE MULTIPLE WYTHES TOSETHER WITH LADDER WIRE AT 16" OC. VERTICALLY. . CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.

FOUNDATION NOT COMPON TO HOUSE.

BACKFILL OF LICEN '51 1/61 ILLASHED STONE IS ALLOWABLE.

BACKFILL OF LICEN, '51 1/61 ILLASHED OR SAND - GRAVEL INKTURE SOILS (1/5 FEFFT BELOW GRADE)
CLASSFIELD AS GROUP! A LOCORODING TO WHITED SOILS CLASSFICATION SYSTEM IN ACCORDANCE
WITH TABLE BROBL OF THE 70/8 NIFERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

PRET SLAB FIER RESIDENT AND RESIDENTIAL CODE
NINKTH 1/4 1/AP SPLICE LENGTH.

LOCATE FERRAN IN CENTER OF BOTH DATA ON THE 20/8 NIFERNATIONAL RESIDENTIAL CODE.

LOCATE REBAR IN CENTER OF FOUNDATION WALL.

WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE '5' MORTAR OR 3000 PSI GROUT, USE OF 'LOU LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND

At	NCHOR SPACING AN	O EMBEDMENT
WIND ZONE	120 MPH	130 MPH
5PACING	6'-0" O.C.	4'-0" O.C.
EMBEDMENT	₹ ^k 2	15" INTO MASONRY 1" INTO CONCRETE

ZO 27,605 321 0 0 0 Z S. HI NGINE 606 WADE AVE, SUI PHONE (919) 758 M

KAKKAKAKAKAKAKA

WIND SPEED E DESIGN Y MPH ULTIMATE I FOUNDATION D 130] 120

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D-1 FOUNDATION DETAILS

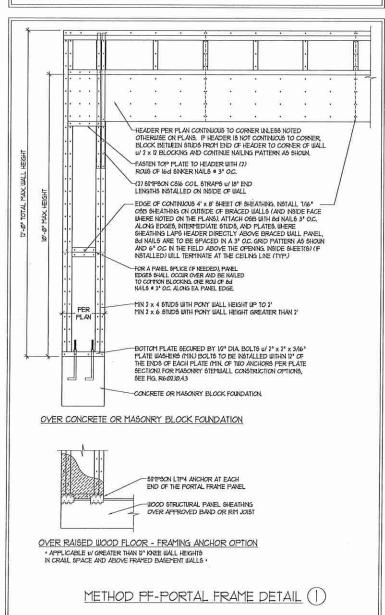


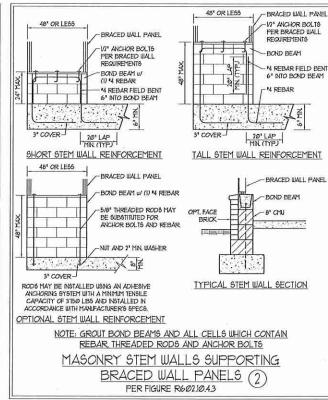
GENERAL WALL BRACING NOTES:

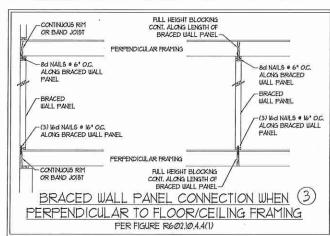
- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NO RESIDENTIAL BUILDING CODE (NORC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC. SEE THIS SHEET FOR GENERAL DETAILS, REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.
- 3. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS DIMENSIONS HOLD DOWN TYPE AND LOCATIONS BRACED WALL LINE KEY WITH WALL DESKEN SUPPLARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS.

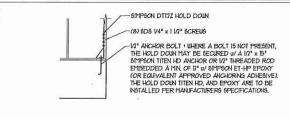
 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R6/02/0/3 UNLESS NOTED.
- OTHERWISE.

 5. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED, WHEN NOT USING METHOD "GB", GYPSUM TO BE
- FASTENED PER TABLE R10235, METHOD GB TO BE FASTENED PER TABLE R602101
- 6. G3-UEP RETERS TO THE "CONTINUOUS GHEATHING WOOD STRUCTURAL PAYLES" WULL BRACING METHOD, TAG* 098
 SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED W 6d CONTON NAILS OR 8d (2 10* LONG x 8018*
- SHEATHR'S IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED W 6d COTYCN NAILS OR 8d (2 1/2" LOVS x Ø)13" DIAPTERN NAILS SPACED 6" OC. ALCAIS PARSE, EDGES AND 10" OC. IN THE FIELD UNIV. THE FIELD UNIV. OR BE REFERS TO THE "GYPSUM BOARD" WALL BRACKIS METHOD. M" (MIN) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACCED WALL FASTENED WITH 1 1/4" SCREWS OR 1 5/0" NAILS SPACED 1" OC. ALCAIS PARSE, EDGES NICLUDINS OF AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (WINO.) VERRY ALL FASTENER OPTIONS FOR 12" AND 5/0" GYPSUM PRIOR TO CONSTRUCTION, FOR NITERIOR RASTENER OPTIONS SEE TABLE RIØ3.5, FOR EXTERIOR FASTENER OPTIONS SEE TABLE RIØ3.5, FOR EXTERIOR FASTENER OPTIONS SEE TABLE R6/013(1). EXTERIOR GB TO BE INSTALLED VERTICALLY,
- 8. REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED FER TABLE R602, 103, METHOD C5-USP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 ITS ACTUAL LENGTH, AND METHOD FF CONTRIBUTES 15 TIMES ITS ACTUAL LENGTH.

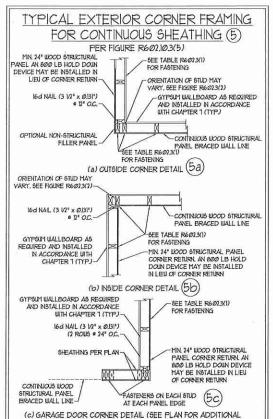




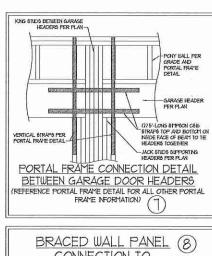


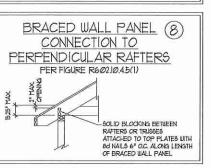


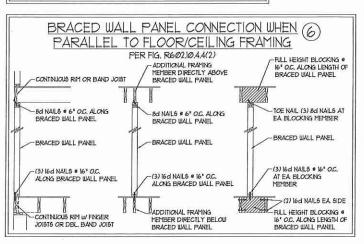
HOLD DOWN DETAIL FOR MASONRY FOUNDATION OR MONOLITHIC SLAB · APPLICABLE ONLY WHERE SPECIFIED ON PLAN ·

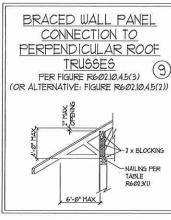


STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)









DATE: NOVEMBER 14, 2019 DRAWN BY: IST ENGINEERED BY IST

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SPEED

I WIND ETAILS

DESIGN S AND DE

MPH ULTIMATE I BRACING NOTES

MPH - 130 WALL

120

D-2 BRACED WALL NOTES AND DETAILS AND PF DETAIL

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GENERAL NOTES

- 1. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMS, CAVILLEVERS, 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 FLOORROOF TRUSS LAYOUT DESKIN AND ACCURACY
- 2. 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
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R3014 R3017)

LIVE LOAD (PSF)	DEAD LOAD (POF)	DEFLECTION (IN)
20	100	L/140 (L/360 w/ BRITTLE FINISHES)
10	10	L/360
40	10	L/360
40	100	L/36Ø
40	Ю	L/36Ø
200 LB OR 50 (PLF)	10	L/36Ø
50	10	L/36Ø
40	Ø	L/360
30	Ø	L/360
40	10	L/36Ø
(BASED ON TABLE R3Ø12(4) WIND ZONE AND EXPOSURE)		
20 (PSF)		
	20 40 40 40 200 LB OR 50 (FLF) 50 40 30 40 (BASED ON TABLE R3012)	70 10 10 10 10 10 10 10 10 10 10 10 10 10

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH IS PSF DEAD LOAD
- 4. FOR II5 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R40316 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, 2019 EDITION

FOOTING AND FOUNDATION NOTES

- L FOUNDATION DESIGN BASED ON A MINIMAL ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 2. FOR ALL CONCRETE BLABS AND FOOTINGS, THE AREA WITHIN THE PERIFETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP FOR ALL CONCASTES SLAPS AND FOOTNESS, HE AREA WHITIN THE PERITED OF THE BUILDING ENVELOPE SHALL HAVE ALL YEGETATION, TO SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE INFORM SUPPORT OF THE BLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEPD 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 SOLD, CLASSIFIED AS GROUP I, ACCORDING TO THE INITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R4051 OF THE NORC, 2010 EDITION.
- 3. PROPERLY DEMATER EXCAVATION PRIOR TO POURING CONCRETE MAEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW MATER 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. CONCRETE SHALL CONFORM TO SECTION R40/22 OF THE NORC 2018 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 6/0. WELDED WIRE FABRIC TO BE ASTIMADAY, MANTAN A INNIMITY CONCRETE COVER AROUND REINFORCES STEEL OF 3" IN PROTISES AND I IV? IN SLABS, FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCENS STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 34". CONCRETE COVER FOR REINFORCENS STEEL MEASURED FROM THE URSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 14". OR 5" BARS OR SMALLER, AND NOT LESS THAN 2" FOR "5" BARS OR SMALLER, AND NOT LESS THAN 2" FOR "5" BARS OR SMALLER, AND NOT LESS THAN 2" FOR "5" BARS OR SMALLER, AND NOT LESS THAN 2" FOR "5" BARS OR SMALLER, AND NOT LESS THAN 2" FOR "5" BARS OR SMALLER, AND NOT LESS THAN 2" FOR "5" BARS OR LARGER.
- MASONRY UNITS TO CONFORM TO ACE 53/0/ASCE 5/IMS 4/02. MORTAR SHALL CONFORM TO ASTM CITIO.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DINENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIMESSION FOR SOLD FOR SOLD FILLED PERES. PIERS MAY BE HILLED SOLD WITH CONCRETE OR TYPE IF OR 5 MORTAR PIERS AND WALLS SHALL BE CAPPED WITH 8 OF SOLD MASONRY.
- THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF 116 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 ALL CONCRETE AND MASCARY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION RAVIO OF THE MORE, 2008 EDITION OF IN ACCORDANCE WITH ACT 383, MCM 373, MCM TREAS A OR ACE \$500/ASCE \$7179 407, MASCARY FOUNDATION WALLS ARE TO BE REPROVACED FOR TABLE RAVIALITY, RAVALUS), PROJULVAY OF THE MORE, 2019 EDITION, CONCRETE FOUNDATION WALLS ARE TO BE REPROPREDED FOR TABLE RAVALUS FOR THE MORE AND EDITION. STORY EDITION STORY CONTROL OF THE MORE, 2018 EDITION STORY EDITION STORY CONTROL OF THE MORE, 2018 EDITION STORY CONTROL OF THE MORE AND THE MORE STORY CONTROL OF THE MORE AND THE MORE THAN THE MORE THAN

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FRAMING NOTES

- L ALL FRAMMS LUMBER SHALL BE 12 SFF MINIMM (Fb = 815 PS), Fv = 315 PS), E = 16,00000 PS) VINLESS NOTED OTHERWISE (VNO). ALL TREATED LUMBER SHALL BE 12 SYP MINIMM (Fb = 915 PS), Fv = 115 PS), E = 16,000000 PS) VINLESS NOTED OTHERWISE (VNO).
- LAMNATED VENEER LUMBER (LVL.) SHALL HAVE THE FOLLOWNS MINIMUM PROPERTIES: The *16600 PSI, FV = 126 PSI, E = 13000000 PSI.
 LAMNATED STRAND LUMBER (LSL.) SHALL HAVE THE FOLLOWNS MINIMUM PROPERTIES: The *2225 PSI, FV = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (FSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROFERTIES: Fc = 2500 PSI, E = 18000000 PSI ARALLEL STRAND LUMBER (PSL) MORE THAN T" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: FC = 2900 PSI, E = 20000000 PSI. INSTALL ALL CONNECTIONS FER MANUFACTURER'S SPECIFICATIONS.
- 3. 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 HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B ASTM A53, GRADE B, TYPE E OR S

4. STEEL BEAYS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARRYS LEYSTH OF 3 1/21 AND FULL FLAYSE WIDTH (UND), PROVIDE SOLID BEARRYS FROM BEAM SUPPORT TO FOUNDATION. BEAYS SHALL BE ATTACHED AT THE BOTTOM FLAYSE TO EACH SUPPORT AS FOLLOUS (UNO)

A WOOD FRAMING (2) 1/2" DIA x 4" LONG LAG SCREUS B. CONCRETE C. MASONRY (FULLY GROUTED) (2) I/2" DIA x 4" WEDGE ANCHORS (2) I/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 • 16* O.C. OR (2) ROUS OF 1/3* DIAMETER BOLTS . IG* OC. IF I/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED u/ (2) ROUS OF 9/16" DIAMETER

- SQUARES DENOTE PONT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR ROUNDATION SHADED SQUARES DENOTE PONT LOADS FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE NORC, 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 REØ27.5 OF THE NORTH
- ALL BEAYS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (I) JACK OR (?) STUDS MINMAM OR THE INDIBER OF JACKS OR STUDS NOTED. ALL BEAYS OR GIRDER TRUSSES PERFENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE LIZE MINIMUM BEARING (UND). ALL BEAMS OR GIRDER TRUSSES PERPENDICIU AR TO IIIALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UND), BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING IO' DIAMETER BOLTS (ASTM A301) 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
- 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.
- (Ø). BRACED WALL PAYELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2019 EDITION WALL BRACING CRITERIA THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R5/02.10.
- PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. FROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR 1-JOISTS FER 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'-8" IN LENGTH REST A 6' x 4' x 5/6' STEEL ANG E WITH 6' MINIMUM EMBEDYENT AT BIDES FOR BRICK SUPPORT (UNO). FOR ALL HEADERS 3"-0" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/6" STEEL ANGLE TO HEADER WITH V2" 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 by (4) 17d NAILS EA PLY BETUEEN WALL STUDS WITH (2) ROUS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R103.82.1 OF THE NORC, 2018 EDITION
- 13. FOR STICK FRAMED ROOTS: 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 ROUS OF 12d NAILS AT 16" O.C. FRAME DORNER 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 PRAME OVER-PRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 YALLEYS (UNO).
- 5. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 120 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (INC.) POSTS MAY BE SECURED USING ONE STIPSON HE OR LIBIT UPLET CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE IS "SECTION OF SIMPSON CS/6 COIL STRAPPING WITH (8) 84 HOS NAILS AT EACH END MAY BE USED IN LIEU OF EACH TRUST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

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WIND SPEED LTIMATE DESIGN STRUCTURAL NO 50 · 130 MPH L STANDARI MPH

DATE: NOVEMBER 14, 2018 SCALE: 1/4" - 1'0"

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DRAWN BY: IES

ENGINEERED BY: 15T

S-0 STRUCTURAL NOTES