

















RENAISSANCE RESIDENTIAL DESIGN, INC.
4810 GLENMIST CT. | RALEIGH, NC 27612
(919) 649-4128
WWW.RRDCAROLINA.COM
The art of transforming your vision into realty.

J.S.THOMPSON ENGINEERING, INC 608 WADE AVE, SUITE 104 RALEGIJI, NO 27605 FHONE (101) 750-9919 FAX: (101) 750-9921 N.C. LICENSE NO. C.1733



H&H HOMES, INC. WILMINGTON DRIVE LEFT

DATE: FEBRUARY 12, 2018 REV.:

SCALE: AS NOTED

DRAWN BY: WG ENGINEERED BY: WLF

REVIEWED BY: JES

B - ELEVATION **OPTIONS** A-2.1

SQUARE FOOTAGE

| St FLOOR: | 1283 SQ. FT. | 2nd FLOOR: | 1582 SQ. FT. | TOTAL: | 2865 SQ. FT. | FRONT PORCH: | 125 SQ. FT. | STD. REAR PATIO: | 110 SQ. FT. | GARAGE: | 428 SQ. FT. |

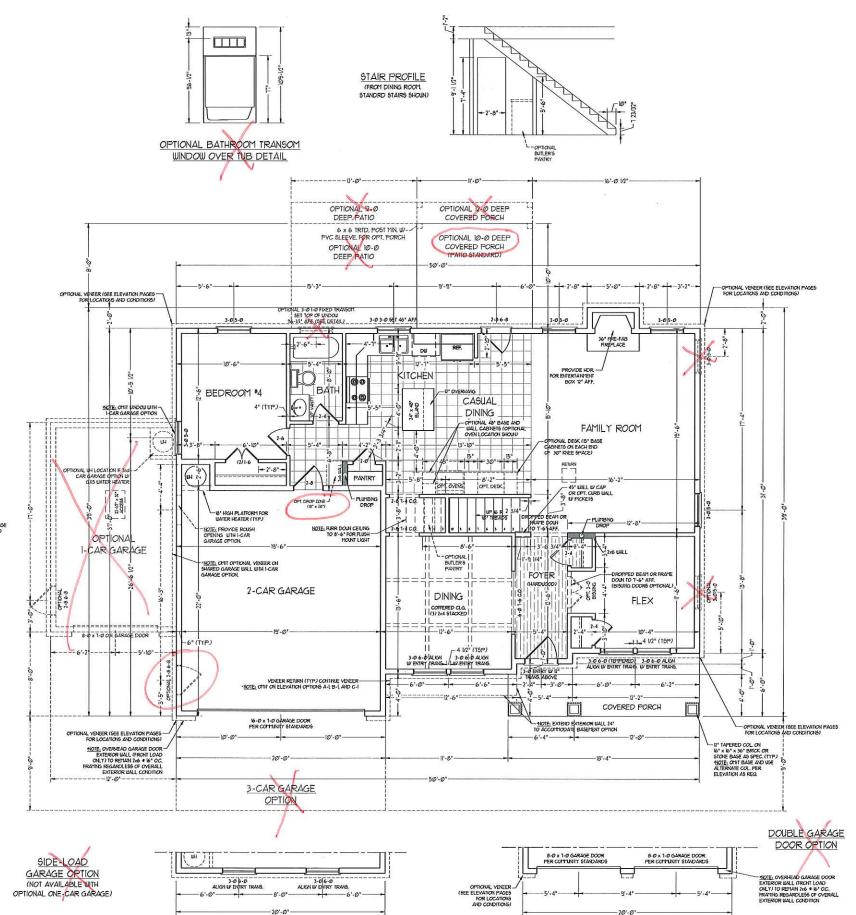
SQUARE FOOTAGE (OPTIONS)

UNFINISHED BASEMENT:	1300 SQ. FT.
Ist FLOOR (W/ BASEMENT):	13Ø8 SQ. FT.
2nd FLOOR (W/ BASEMENT):	1601 SQ. FT.
1st FLOOR (ALL BRICK):	1336 SQ. FT.
2ND FLOOR (ALL BRICK):	1643 SQ. FT.
GARAGE (ALL BRICK):	449 SQ. FT.
I-CAR GARAGE:	240 SQ. FT.
I-CAR GARAGE (ALL BRICK):	258 SQ. FT.
3-CAR GARAGE:	601 SQ. FT.
3-CAR GARAGE (ALL BRICK):	633 SQ. FT.
UNFINISHED BASEMENT (ALL BRICK):	1358 SQ. FT.
151 FLOOR (ALL BRICK W/ BASEMENT):	1361 SQ. FT.
2nd FLOOR (ALL BRICK W/ BASEMENT):	1668 SQ. FT.
REAR PORCH (IØ-Ø DEEP):	11Ø 5Q, FT.
REAR PORCH (12-Ø DEEP):	132 SQ. FT.
OPT, PATIO/ DECK: (IØ-Ø DEEP):	12Ø 5Q. FT.
OPT. PATIO/ DECK: (12-Ø DEEP):	144 SQ. FT.

*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).

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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REMAISANCE RESIDENTE. DESIGN PICA-IERDRE CAPRESEN PRESENTS ITS COMMON LAW COPPRESENT AND OTHER PROPERTY BANKS IN THESE PLAYS. THESE FLAYS AND DRAWFRISS ARE NOT TO BE REPRODUCED, CHANGED, OR COPPED IN ANY FORM OF MANAGET WHITTEN COSSITO OF PERIORS AND WIRTTEN COSSITO OF PERIORS AND PRESENT OF PERIORS AND A PRESENT OF PE

J.S.THOMPSON ENGINEERING, INC (6% WADE AVE, SLITE 104 RALEIGII, NC 27605 PHONE, 019) 7899919 FAX, 019) 7899921 N.C. LICENSE NO. C1733



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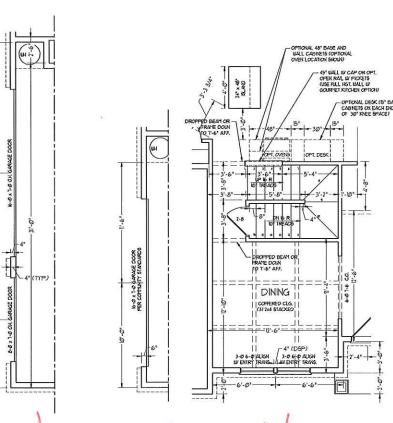
H&H HOMES, INC. WILMINGTON DRIVE LEFT

DATE: FEBRUARY 12, 2018
REV.:
SCALE: 1/4*=1'0*

DRAWN BY: WG
ENGINEERED BY: WLF
REVIEWED BY: JES

FIRST FLOOR PLAN

A-5



SIDE-LOAD

GARAGE OPTION

(NOT AVAILABLE WITH

OPTIONAL ONE-CAR GARAGE)

FF STAIRS

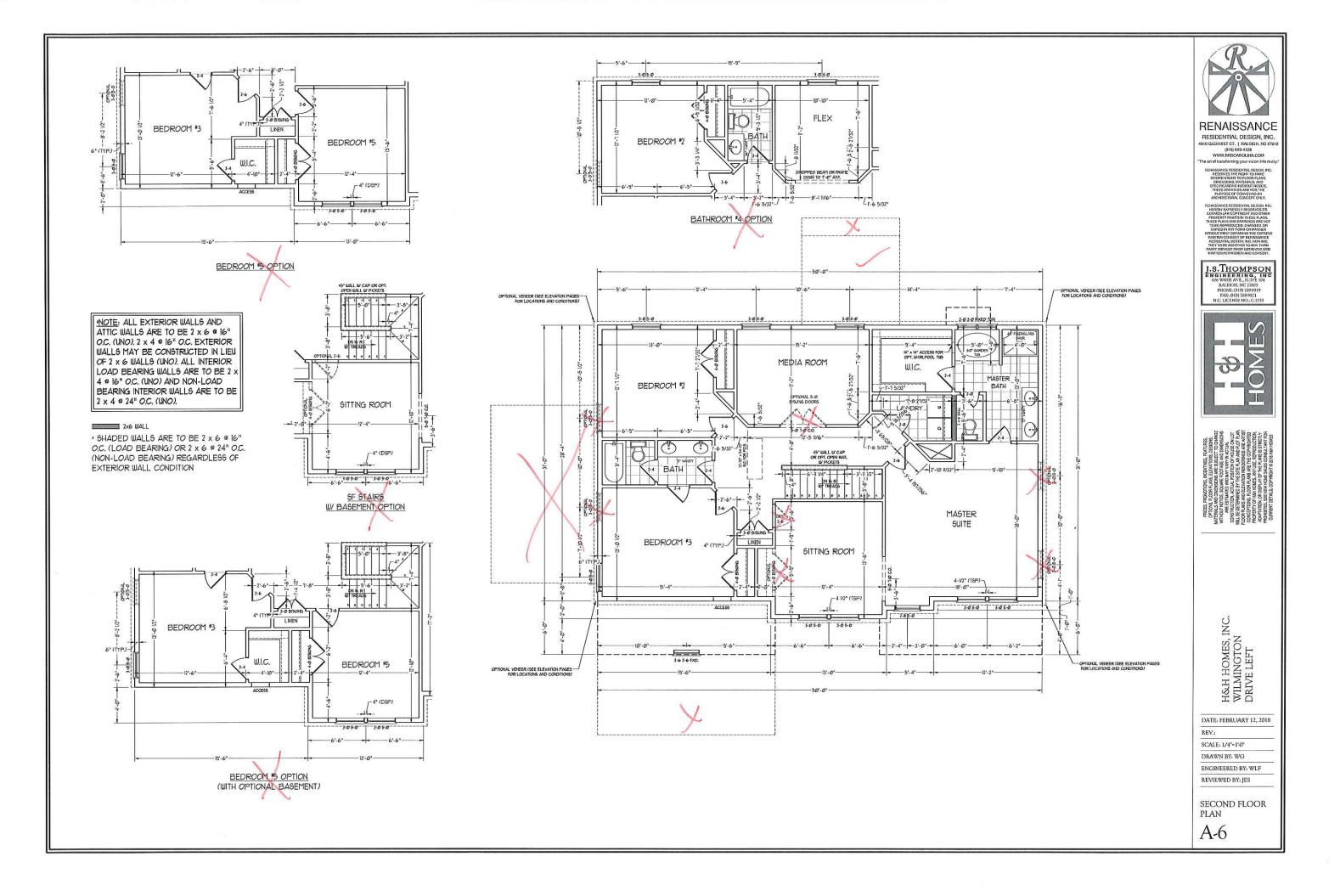
W/ BASEMENT OPTION

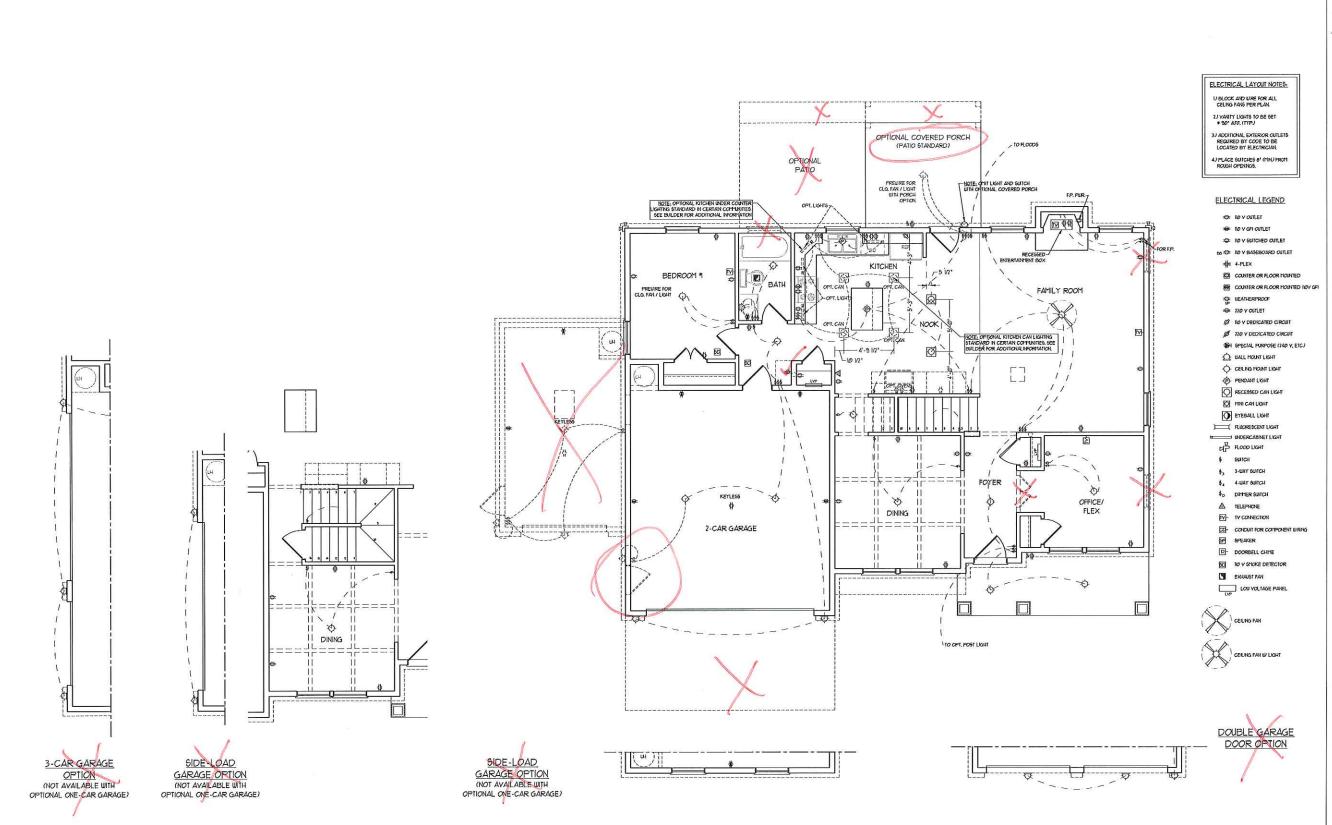
3-CAR GARAGE

OPTION

(NOT AVAILABLE WITH

OPTIONAL ONE-CAR GARAGE)







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J.S.THOMPSON ENGINEERING, INC 608 WADE AVE, SUITE 104 CONTROL OF THE 107 FAX: 6191 789-9921 N.C. LICENSE NO. 6-1733



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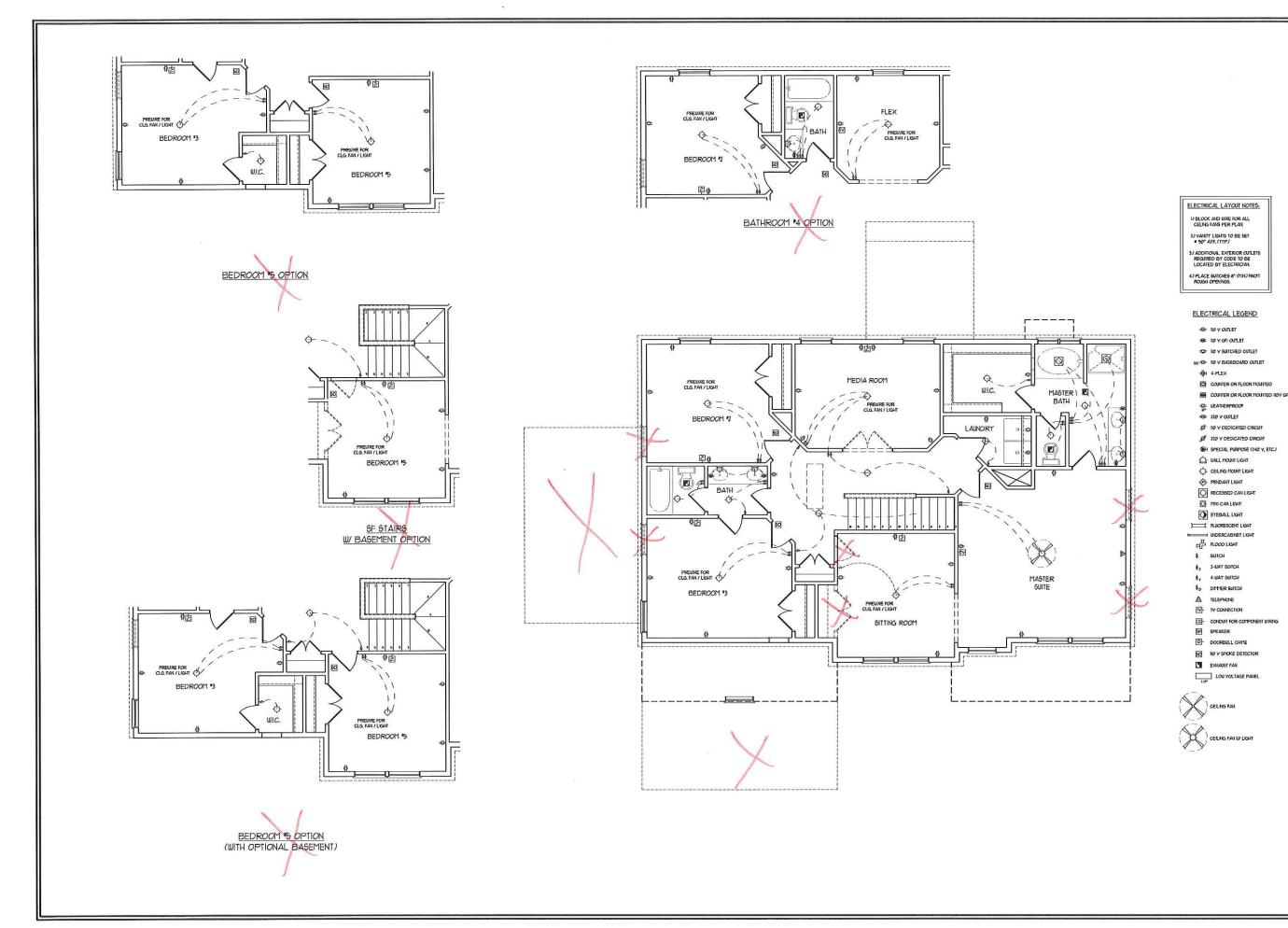
SCALE: 1/4"=1'-0"

DRAWN BY: WG ENGINEERED BY: WLF

REVIEWED BY: JES

FIRST FLOOR ELECTRICAL PLAN

E-1





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H&H HOMES, INC. WILMINGTON DRIVE LEFT

DATE: FEBRUARY 12, 2018

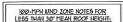
REV.: SCALE: 1/4"=1"0"

DRAWN BY: WG

ENGINEERED BY: WLF REVIEWED BY: JES

SECOND FLOOR ELECTRICAL PLAN

E-2



U DIGNEERS SEAL APPLIES ONLY TO STRUCTURAL COMPONING DIGNEERS SEAL DOES NOT CERTIFF DIPONING ACCOUNTY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. 2) STRUCTURAL DESIGN FER NORTH CAROLINA SESSIPPLIAN, COME ONE TRUITON

2) STRUCTURAL DESCRIPTER NORTH CARCA NA RESIDENTIAL CODE, 2012 EDITION 3) NESTALL V.º ANCIOR BOLTS 6'-9' OC. AND UNIN 1'-0' FRICH BNO OF EACH PLATE, ANCHOR BOLTS HUST EXTERD A HINCHIT OF 1' NIO HASONET OR CONCRETE. 4) PEAR ROOF FEEDIT IS LESS THAN 30 FEET. 5) EXTERIOR HALLS DESCRIPT FOR 100 NPH.

3) EMERICA ULLI DESIGNED FOR DO PPH UNDS.
6) ULLI CLADONG DESIGNED FOR XII PPF (POSITIE AD DEGAIME).
1) RODO CLADONG DESIGNED FOR TIO PSF (POSITIE AD DEGAIME) FOR ROOF FICICES VIZ 10 DID AND 348 PSF (POSITIES AND REGAIME) FOR ROOF FICICES SIZE TO VIZ. 3) RISIALL VIZ. "OSD SHEATING ON ALL EMERICA WILLIO FOR ALL STORES N ACCORDANCE WITH SECTION REPUBBIOS OF THE DECK, 700 EDITION SEET THE MERCAN NOTES AND DETAILS SHEET FOR MORE PROPERTION.

NOTES AND DETAILS SPEET FOR THE AND PREMY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER IF OF THE NORC,

13/0-MPH WIND ZONE NOTES FOR LESS THAN 3/0" MEAN ROOF HEIGHT:

U DISINEERS SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS, DISINEER'S SEAL DOES NOT CERTIFY OPPOSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM.

ROOF SYSTEM.

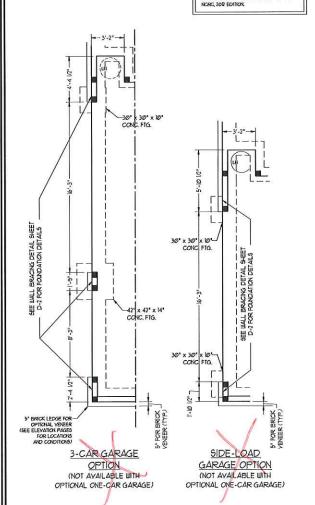
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CAROLINA RESIDENTIAL CODE, 200 EDITION
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HILL SPECIAL CODE) POR 190 THE LINDS),
J'DULDER IS TO PROVIDE BRANNS
CONECTIONS AS REQUIRED BY CHAPTER 46
(FICHI LIND LOSE)* FOR 190 THE HINDS) OF
THE NORTH CAROLINA RESIDENTIAL CODE
200 EDITION.

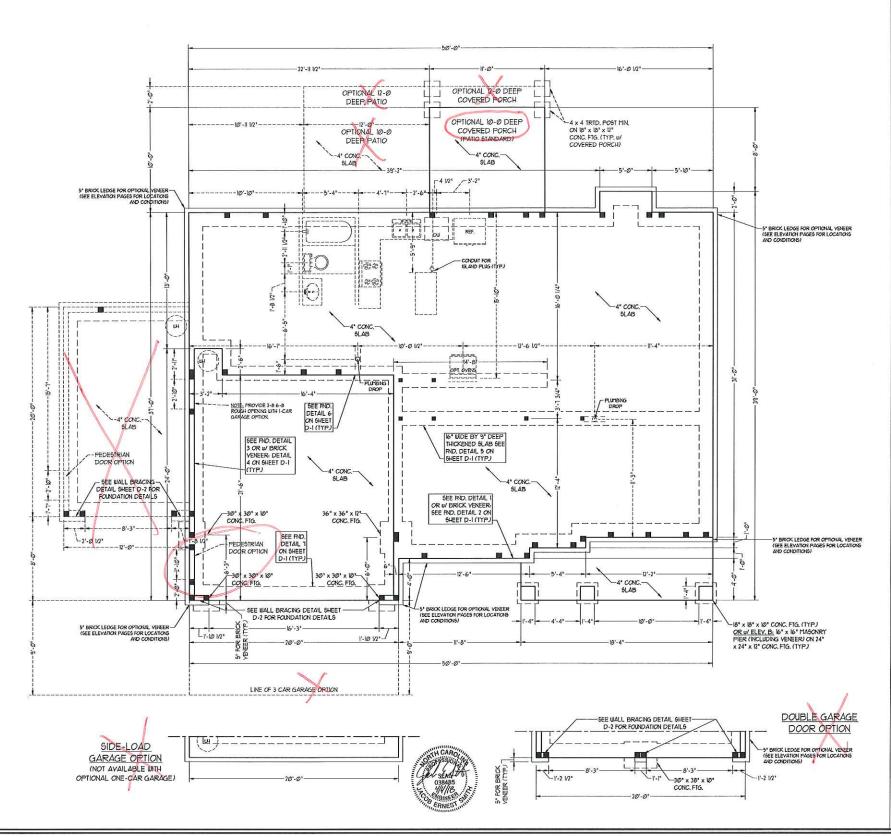
700 EDITION
4) FOUNDATION ANCHORAGE TO COTFLY
4) FOUNDATION ANCHORAGE TO COTFLY
11TH SECTION 4504 OF THE NORTH CAROLINA
RESPOSITION
5) PIEAN ROOF FEIGHT IS LESS THAN 30
TEST.

5) FEAT ROOF HEIGHT IS LESS THAN 30 FEET.
6) BULL CLADDING DESIGNED FOR 40.1
F9F (FOSTIVE AND NEGATIVE).
1) ROOF CLADDING DESIGNED FOR 35.6
F9F (FOSTIVE AND NEGATIVE) FOR ROOF FITCHES TO DUT AND 5.61 F9F (FOSTIVE AND NEGATIVE) FOR ROOF FITCHES 125.01 TO

YE.

8) 1/4° OGS SHEARING IS REQUIRED ON
ALL EXTREMOR EMLLS.
9) MULLS TO BE BRACED IN ACCORDIANCE
WITH SECTION REPORTED ON THE HOWIN
CAPOLINA RESIDENTIAL CODE, TORI EDITION
MOST BEART SHEROISHY COTE (MAKE AND
NISLA LINCH WALLES OF THE BUILDING TO BE
NACORDIANCE WITH CHAPTER IN OF THE
NCKC, 20°C EDITION.







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J.S.THOMPSON



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H&H HOMES, INC. WILMINGTON DRIVE LEFT

DATE: FEBRUARY 12, 2018 SCALE: 1/4"=1'-0"

ENGINEERED BY: WLF REVIEWED BY: JES

MONO SLAB **FOUNDATION PLAN**

S-1

STRUCTURAL NOTES: TREATED LUMBER TO BE 2 SYP (UNO.) ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 UP TO 4 FT. ALL BEAMS ARE TO BE SUPPORTED WITH (2) JACK STUDS EA END (UND), WINDOW AND DOOR HEADERS TO BE SUPPORTED W (1) JACK STUD AND (1) KING STUD EA END (UND) 4-8 FOR HIGH WIND ZONES, PROVIDE (2) KING STUDS EA. SIDE OF EXTERIOR WINDOW AND DOOR HEADERS W CLEAR OPENINGS LESS THAN 6'-0" AND (3) KING STUDS EA, SIDE OF HEADERS W CLEAR OPENINGS GREATER THAN FOR HIGH WIND ZONES, ALL EXTERIOR WALLS LENGTH : CLEAR OPENING EMBED ALL ANGLE IRONS MIN. 4" EACH TO BE SHEATHED WITH 1/16" OSB SHEATHING SIDE NIO VENER TO PROVIDE BEARNS, FOR ALL HEADERS 8'-0' AND GREATER IN LENGTH, ATTACH STEEL ANGLE TO HEADER W W' LAG SCREWS 9 12" O.C. WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG EDGES AND 6" O.C. IN THE FIELD. FOR HIGH WND ZONES, SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2) STAGGERED. STAGGERED. FOR ALL BRICK SUPPORT * ROOF LINES, FASTEN A 5* x 3 10* x 5/16* STEEL ANGLE TO 2 x 10° BLOCKINS INSTALLED BETWEEN WALL STUDS W 102* LAG SCREWS 12* OC. ROUS OF 8d NAILS STAGGERED AT 3" OC. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION WINTS AND SHALL OVER AF GIRDERS AND DOUBLE SILL PLATES THEIR STAGGERED AND IN ACCORDANCE TO SECTION R103.122 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2012 REQUIRE SOLID BLOCKING TO GIRDER OR EDITION. PRECAST RENFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS. FOUNDATION. ALL SQUARES TO BE (2) STUDS 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 100 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO.) FOR FIRERGI ASS, ALLMINUM, OR COLUMN ENG PAY PIBERSLASS, ALUMBUT, OR COLUMN BY. BY OTHERS, SECURE TO SLAB &/ (2) METAL ANGLES USING 2" CONC. SCREUS. FASTEN ANGLES TO COLUMNS &/ V4" THROUGH BOLTS W/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION. NOTE: TSP DENOTES TRIPLE STUD POCKET (2) 2 x 10

FACE OF THE HEADERS

3-CAR GARAGE

OPTION

OPTIONAL ONE-CAR GARAGE)

SIDE-LOAD

GARAGE OPTION

OPTIONAL ONE CAR GARAGE)

LINTEL SCHEDULE FOR NOTE: ALL EXTERIOR WALLS AND BRICKMATURAL STONE SUPPORT ATTIC WALLS ARE TO BE 2 x 6 @ 16" SIZE OF LINTEL O.C. (UNO), 2 x 4 @ 16" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU L 3 1/2 x 3 1/2 x 1/4 OF 2 x 6 WALLS (UNO). ALL INTERIOR L 5 x 3 1/2 x 5/16 LLV LOAD BEARING WALLS ARE TO BE 2 x L 6 x 4 x 5/16 LLV 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE LINTEL SCHEDULE APPLIES TO ALL 2 x 4 @ 24" O.C. (UNO). OPENINGS IN BRICK VENEER (UNO), SEE ARCH DUGS, FOR SIZE AND LOCATION OF (LLV) = LONG LEG VERTICAL

(I) I 3/4" x I4" LSL FLUSH

FF STAIRS

W/ BASEMENT OPTION

BRACED WALL DESIGN

SIDE IA (FRONT LOAD) METHOD: CS-WSP/PF METHOD: FF TOTAL REQUIRED LENGTH: 112' TOTAL REQUIRED LENGTH: 456

SIDE 3A METHOD: C5-WSP

SIDE 4A (SIDE LOAD) METHOD: C5-WSP/PF

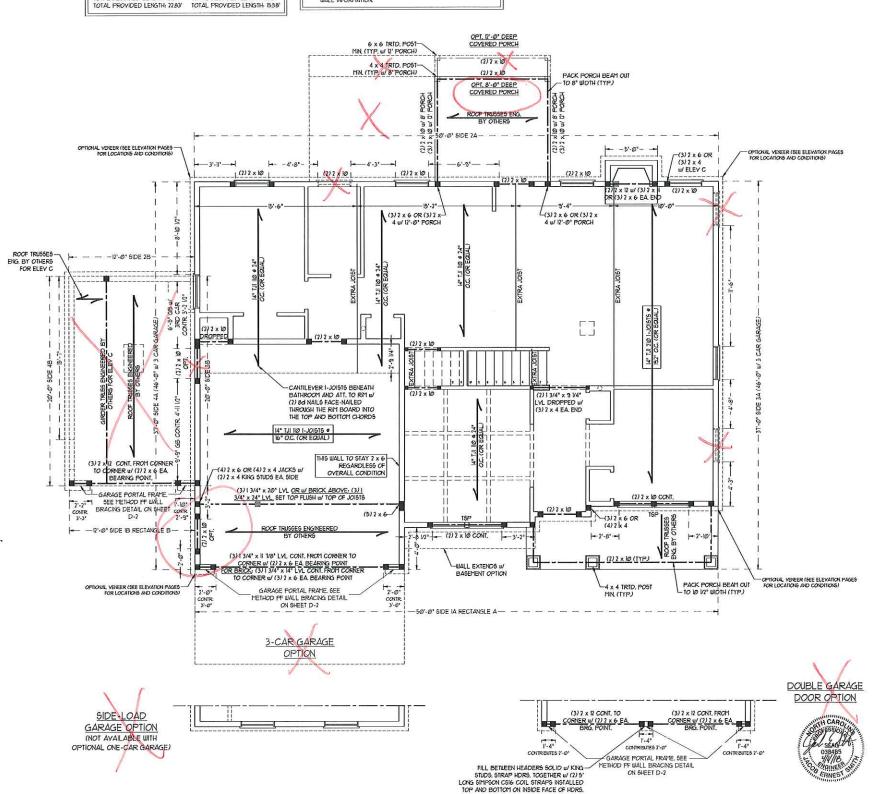
TOTAL PROVIDED LENGTH: 6' TOTAL REQUIRED LENGTH: 112'
TOTAL PROVIDED LENGTH: 2458' TOTAL REQUIRED LENGTH: 456 TOTAL PROVIDED LENGTH: 12"

SIDE 3B / SIDE 4A CUMULATIVE METHOD: CS-USP/GB TOTAL REQUIRED LENGTH: 2183'
TOTAL PROVIDED LENGTH: 222'
SIDE 4B TOTAL REQUIRED LENGTH: 1864' TOTAL PROVIDED LENGTH: 20.41' METHOD: C5-USP TOTAL REQUIRED LENGTH: 1864' TOTAL REQUIRED LENGTH: 3.191

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN FER SECTION R60210 OF THE SIMPLIFIED WALL BRACING CRITERIA EFFECTIVE SEPTEMBER I,
- 7013.
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 7013.
 C5-W5P REFERS TO "CONTINUOUS SHEATHING WOOD
 SHINCTINAL PAINELS" CONTRACTOR IS TO NISTALL TIME" OSB
 ON ALL EXTERIOR WALLS ATTACHED W 26 ANALS SPACED 6"
 OC. ALONG PAINEL EDGES AND 1" OC. NI THE FIELD.
 G5 REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL 1/2" (MIN) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS.
- FASTEN GB WITH I I/4" SCREWS OR I 5/8" NAILS SPACED 1" O.C. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.

 BRACED WALL DESIGN APPLIES IN WIND ZONES UP TO 100 PFH. FOR INGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NORG, 2012 EDITION. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATICAL.





RENAISSANCE RESIDENTIAL DESIGN INC.

J.S.THOMPSON ENGINEERING, INC 666 WADE AVE., SUITE 104 RALEIGH, NC 27665 FHONE: 6/19/ 75899919 FAX, 6/19/ 75899921 N.C. LICENSE NO. C-1733



INC. H&H HOMES, II WILMINGTON DRIVE LEFT

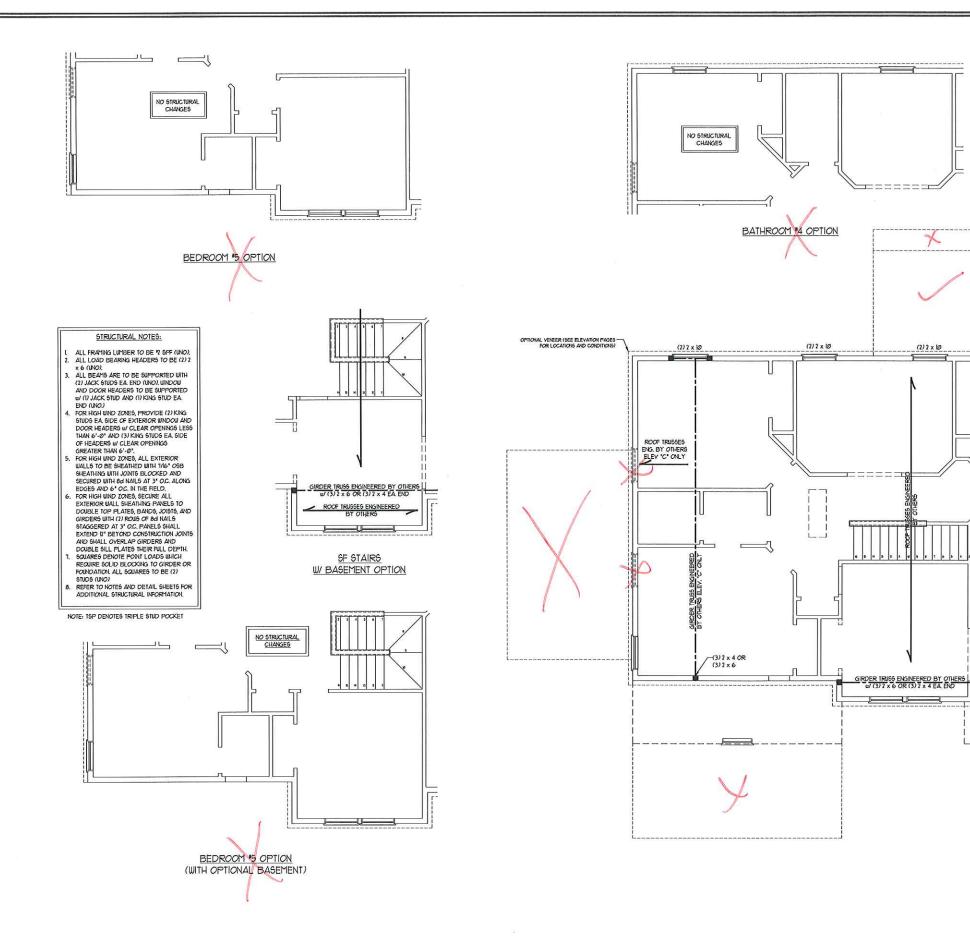
DATE: FEBRUARY 12, 2018 REV.

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

DRAWN BY: WG ENGINEERED BY: WLF

REVIEWED BY- IES

SECOND FLOOR FRAMING PLAN





- BRACED WALL DESIGN FER SECTION R60210 OF THE SIMPLIFIED WALL BRACING CRITERIA EFFECTIVE SEPTEMBER I,
- SMPLIFICD WALL BRACING CRITERIA EFFECTIVE SEPTEMBER I, 2013.
 CS-USP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" CONTRACTOR IS TO NSTALL TIME" OSB ON ALL EXTERIOR WALLS ATTACHED W SIG NATION TO "OSB ON ALL EXTERIOR WALLS ATTACHED W SIG NATION TO NSTALL IZ" (THIN GYFSUM WALL BOARD WERE NOTED ON THE PLANS. PASTEN OR WITH IN "STEAD TO NSTALL IZ" (THIN GYFSUM WALL BOARD WERE NOTED ON THE PLANS. PASTEN OR WITH IN "STALL SPACED TO "OC. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.

 BRACED WALL DESIGN APPLIES IN WIND ZONES UP TO 100 MPH. FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NGRC, 200 EDITION SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL DESIGNATION.
- WALL INFORMATION.

NOTE:

(2) JACKS W/ ELEV C

ROOF TRUSSES ENG. BY OTHERS ELEY "C" ONLY

(2) 2 x 10 OR (2) 2 x 12 ELEV C

- PER SECTION R601/032 OF THE 1001 NCRC, 2012 EDITION, THE APOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE APOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL SAULTSIS IS REQUIRED.

 SHEATH ALL EXTERIOR WALLS WITH TIME OSB SHEATHING ATTACKED WITH BUT NOTES AND 12* OC. IN THE FIELD.

	CHEDULE FOR AL STONE SUPPORT
LENGTH (FT.)	SIZE OF LINTEL
UP 10 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 LLY

- NOTES:
 LINTEL SCHEDULE APPLIES TO ALL
 OPENINGS IN BRICK VENEER (IND). SEE
 ARCH DIUGS, FOR SIZE AND LOCATION OF
 OPENINGS.
 LENGTH : CLEAR OPENING
 LENGTH : CLEAR OPENING
 BIDE NITO VENEER TO PROVIDE BEARING,
 FOR ALL HEADERS 3°-2° AND GREATER
 IN LENGTH, ATTACH STEEL ANGLE TO

- IN LENGTH, ATTACH STEEL ANGLE TO HEADER W/ V2" LAG SCREUS @ 12" O.C. STAGGERED. FOR ALL BRICK SUPPORT @ ROOF LINES,
- FOR ALL BRICK SUPPORT O ROOF LINES, FASTEN A 5" × 10" × 510" STEEL MAGLE TO 2 × 10' BLOCKING INSTALLED BETWEEN WALL STUDS W 10" LAS SCREWS 1" OC. STAGGERED AND IN ACCORDANCE TO SECTION R103.122 OF THE NORTH CARCINA RESIDENTIAL CODE, 70/2 FOLLOWS.
- EDITION.
 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 x 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO).



RESIDENTIAL DESIGN, INC.

GLENMIST CT. | RALEIGH, NC 27612 (919) G49-4128 WWW.RRDCAROLINA.COM ut of transforming your vision into re atty





H&H HOMES, II WILMINGTON DRIVE LEFT

DATE: FEBRUARY 12, 2018

REV.:

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

DRAWN BY: WG ENGINEERED BY: WLF

REVIEWED BY: JES

CEILING FRAMING PLAN

ATTIC VENT CALCULATION:

1934 SQ. FT. OF ATTIC DIVIDED BY 150 REQUIRES 13.3 SQ. FT. OF NET FREE YENTILATING AREA (MIN).

STRUCTURAL NOTES:

ALL FRAMING LUMBER TO BE 72

SFF (INO).
CIRCLES DENOTE (3) 2 x 4 POSTS
FOR ROOF SUPPORT.
FRAME DORMER WALLS ON TOP
OF DOUBLE OR TRIPLE RAFTERS.
HIP SPLICES ARE TO BE SPACED
A MIN. CE. 427 EASTER NEMBERS.

HIP SPILICES ARE ID BE SPACED
A PINI, OF 8-0°. FASTEN INTERPERS
UNTIT HIRCE ROUS OF 12d NAILS 9
16" OC. (TYP)
STICK FRAME OVER-FRAMED
ROOF SECTIONS W 2 x 8 RIDGES,
2 x 6 RAPIERS 9 16" OC. AND
FLAT 2 x 10 VALLEYS OR USE

VALLEY TRUSSES.

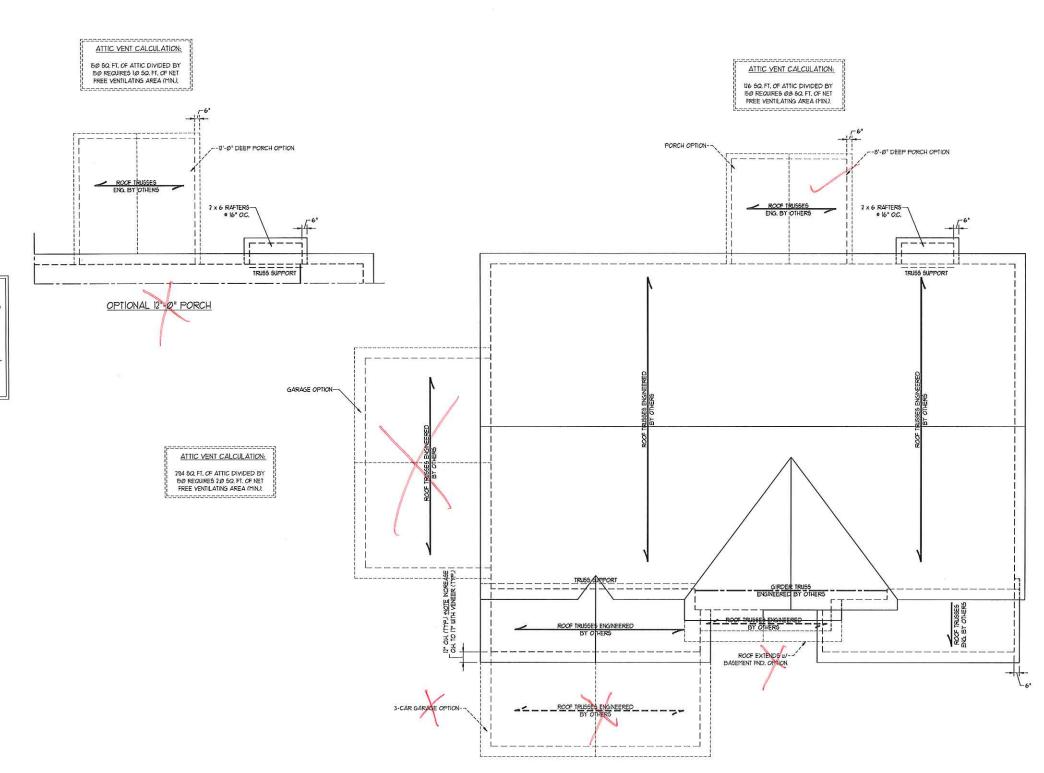
RAFIERS OR TRUSSES WITH
SYPECK HUZA PLAST TO
SAPECK OR TRUSSES WITH
SYPECK HUZA PLAST LIRES OF
SYPECT HUZA PLAST LIRES OF
SHEATHING EACH RAFTER IS TO
BE FASTENED TO THE FLAT
VALLEY WITH A MIN OF (6) TE
TOE NAILS.

REFER TO NOTES AND DETAIL
SHEETS FOR ADDITIONAL
STRUCTURAL INFORMATION VALLEY TRUSSES.

BRICK SUPPORT NOTE:

FOR BRICK SUPPORT # ROOF LINES, BOLT A 5" x 3 1/2" x 5/16" STEEL AVALE TO 2 x 10 BLOCKING INSTALLED BETWEEN UALL STUDS W 1" LAG SCREWS 12" OC. 51AGERED AND IN ACCORDANCE WITH SECTION RESIDENTIAL COPE, 20/2 FORTION RESIDENTIAL COPE, 20/2 FORTION

CAROL NA RESIDENTIAL CODE, 70/1 EDITION. WHERE ROOF SLOPES EXCEED 1:12, NSTALL 3' x 3' x 44' STEEL PLATE STOPS AT 24' OC. PER SECTION RIØ312J OF THE NORTH CAROL NA RESIDENTIAL CODE, 70/12 EDITION.



ELEVATION A & B



RESIDENTIAL DESIGN, INC.
4810 GLENMIST CT. | RALEIGH, NC 27612
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J.S.THOMPSON ENGINEERING, INC



H&H HOMES, INC. WILMINGTON DRIVE LEFT

DATE: FEBRUARY 12, 2018

REV.:

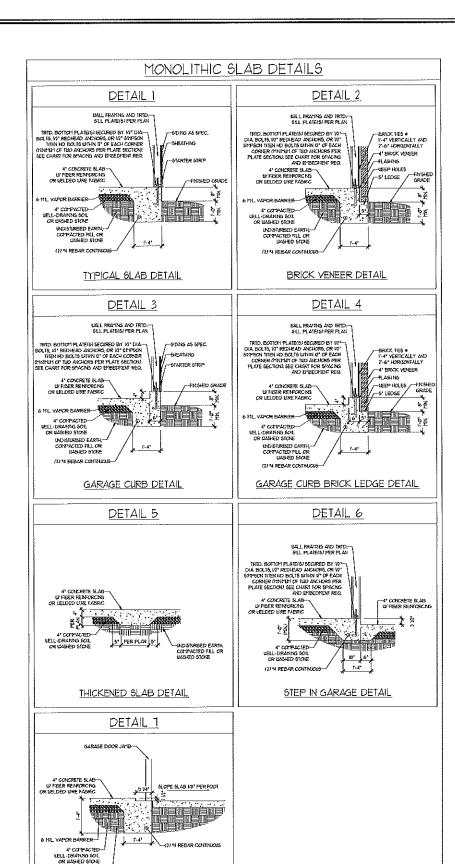
SCALE: 1/4"=1'-0"

DRAWN BY: WG

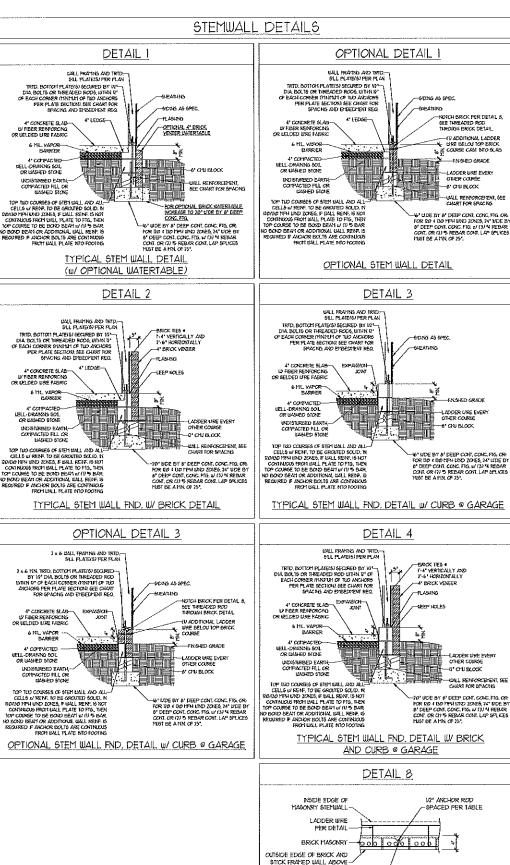
ENGINEERED BY: WLF REVIEWED BY: JES

ROOF PLAN ELEVATIONS

A&B

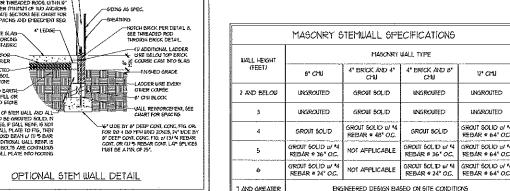


SLAB AT GARAGE DOOR DETAIL



NOTCH BRICK # THREADED ROD AND GROUT SOLID-

THREADED ROD THROUGH BRICK MASONRY



STRUCTURAL NOTES:

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

THE MULTIPLE WITHES TOSETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.

CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE FOONDATION NOT COMYON TO HOUSE.

BACKFILL OF CLEAN 51 I'VE MARKED STONE IS ALLOWABLE.

BACKFILL OF URELL DRANED OR SAND - GRAVEL HINTINGE SOILS (45 PSFAT BELOW GRADE) CLASSFIED AS GROUP I ACCORDING TO INVITED SOILS CLASSFICATION SYSTEM IN ACCORDINGE WITH TABLE RIGID, OF THE 2021 NITERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

FREEP SLAS PER <u>ENGOL</u> OF THE 2021 NITERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

INMINITY I'LD SPICE LENGTH.

LOCALE REFREE NI CENTER OF FOONDATION WILL!

LOCATE REBAR IN CENTER OF FOLKDATION WAIT

L DUCADE MEDAR IN CEMEN OF HUMPARIEN WALL. UNERGE RECURRED, FILL BLOCK SOLID WITH THE "5" MORTAR OR 3000 PSI GROUT, USE OF "LOU LIFT GROUTING" METHOD RECUIRED WHEN FILLING WALLS WITH GROUT AT WEIGHTS OF 5" AND GREATER

ANCH	ANCHOR SPACING AND EMBEDMENT			
WIND ZONE	100 МРН	160 MPH		
S PACING	6'-0" O.C. 3'-0" O.C. FOR STRAPS	4'-0' O.C. 2'-0' O.C. FOR STRAF		
EMBEDMENT	7°	B" INTO MASONRY T" INTO CONCRETE		
WIND ZONE	120 MPH	13Ø MPH		
SPACING	6'-0' O.C. W DBL, SILL FLATE OR 4'-0' O.C W SNGLE SILL FLATE W 2' x 2" x VB' WASHERS	6'-0' OC W DBL SILL FLATE OR 4'-0' OC W SINGLE SILL PLATE U/ 2' x 2' x 1/8' W451-ER5		
EMBEDMENT	B" INTO MASONRY T" INTO CONCRETE	5° INTO MASCARY T' INTO CONCRETE		

NOTE: HORIZONTAL FOOTING REBAR REQUIRED IN HIGH WIND ZONES ONLY (120 MPH - 130 MPH)

> DATE: DECEMBER 22, 2017 DRAWN BY: IST ENGINEERED BY: JES

FOUNDATION DETAILS



SON INCIDENT Ø Ö w ' WADE S **". Z** §

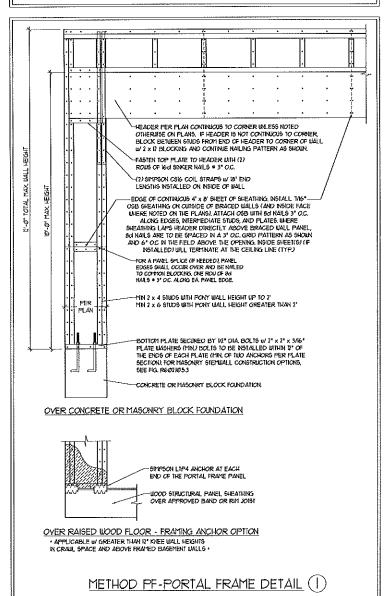
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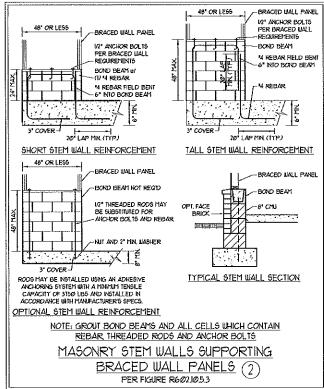
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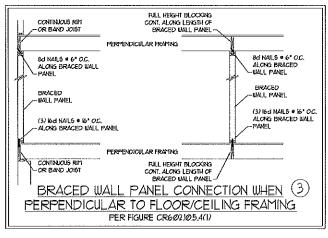
DETAILS FOUNDATION

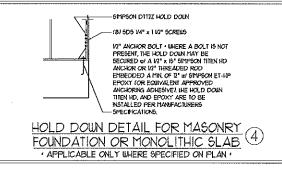
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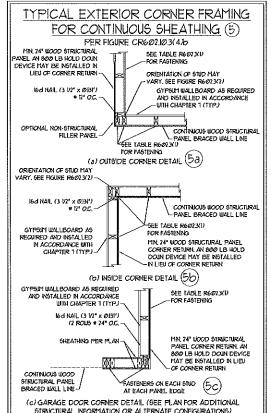
- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2012 NO RESIDENTIAL BUILDING CODE (NORC). TABLES AND FIGURES REFERENCED ARE FROM THE 2012 NORG. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2012 NORG FOR ADDITIONAL INFORMATION AS NEEDED.
- SEE STRUCTURAL SHEETS FOR BRACED MALL LOCATIONS, DYENSIONS, POLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SHYMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIRED/PROVIDED.
- ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH C5-WSP IN ACCORDANCE WITH SECTION R607/03 UNLESS NOTED
- OTHERINGS AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED, WHEN NOT USING METHOD "GB", GYPSUM TO BE ASTERNED PER TABLE RIPUZIS, METHOD GB TO BE FASTINED PER TABLE RIPUZIS, METHOD GB TO BE FASTINED PER TABLE RIPUZIS. METHOD 11/6" OSB SHEATHING IS TO BE ESTENS TO THE "CONTINUOUS SHEATHING". WOOD STRUCTURAL PARELS" MALL BRACKING METHOD. 11/6" OSB SHEATHING IS TO BE METHOD. 11/6" OSB SHEATHING IS TO BE METHOD ON AND SOR BIT 17" LONG X Ø/JU" DIAMETER) NAILS SPACED 6" OC. ALONG PAREL BOORS AND R" OC. IN THE FIELD CANDA.
- GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/1" (MINU GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH 11/4" SCREWS OR 15/8" MAILS SPACED 1" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UNO), VERFY ALL FASTENER OFTIONS FOR IV. AND 5/6* GYPSIM PRIOR TO CONSTRUCTION, FOR INTERIOR FASTENER OPTIONS SEE TABLE R10/235, FOR EXTERIOR FASTENER
- 50% OF POUT PROOF TO CONTINUE FOR SHEROK PASSIENCE OF THOSE SET, MAKE READS, FOR EACHORD PASSIENCE OF POUT SET, MAKE READS, FOR EACHORD PASSIENCE OF THE CIRCLESCRIBED RECLARGLE ARE INTERPOLATED PER TABLE READ LESS TO THE CIRCLESCRIBED RECLARGLE ARE INTERPOLATED PER TABLE READ LESS THE ACTUAL LENGTH, AND MET OF CONTRIBUTES IS THESE ITS ACTUAL LENGTH, AND MET OF CONTRIBUTES IS THESE ITS ACTUAL LENGTH.

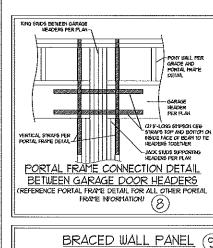


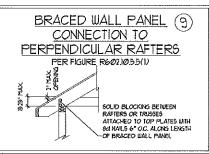


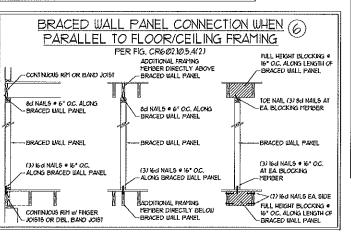


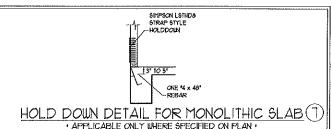


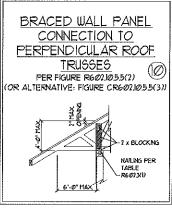














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KANTANTANTANTANTE

AND DETAILS BRACING NOTES WALL

DATE: MARCH 19, 2018 DRAWN BY: IST

ENGINEERED BY: JST REVIEWED BY: JES

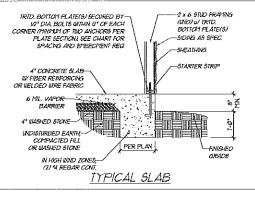
> D-2 BRACED WALL AND PORTAL FRAME DETAILS

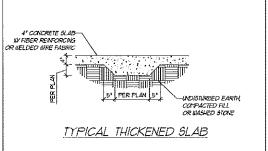
NOTE: LOCATE REBAR MIN : ABOYE BOTTOM OF FOOTING w/ MIN. 25" LAP SPLICE LENGTH.

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ANCHOR SPÁCING AND EMBEDMENT				
WIND ZONE	IDD MFH	IIØ MPH	12 <i>0</i> MPH	ВФ МРН
\$PACING	6'-0" O.C. 3'-0" O.C. FOR STRAPS	4'-0" O.C. 1'-0" O.C. FOR STRAPS	6'-0" OC. W DBL, SILL FLATE OR 4'-0" OC W SINGLE SILL FLATE W 2" x 2" x VB" WASHERS	6'-0" O.C. u/ DBL. 5ILL PLATE OR 4'-0" O.C u/ SINGLE SILL PLATE u/ 2" x 2" x V8" WASHERS
EMBEDMENT	7*	7'	Ju.	7*

TRID, BOTTOM PLATE(S) SECURED BY -IN' DIA BOLTS WITHD IN' OF EACH CORNER (MINIAN) OF TWO ANCHORS FER -2 x 6 STUD FRAMING (UNO) W TRID BOTTOM PLATE —BRICK TIES 8 1'-4" VERTICALLY AND 2'-6" HORIZONTALLY PLATE SECTION), SEE CHART FOR SPACING AND EMBEDIMENT REG -4' BRICK VENEER -FLASHING 4° CONCRETE SLAB--VEEP HOLES W FIBER REINFORCING OR WELDED WIRE FABRIC _5° LEDGE BARRIER 4" WASHED STONE UNDISTURBED EARTH COMPACTED FILL OR WASHED STONE PER PLAN -FINISHED GRADI IN HIGH WIND TONES-TYPICAL SLAB W/ BRICK VENEER LEDGE





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TAILS ANI NOTES UNDATION DE STRUCTURAL

DATE: DECEMBER 22, 2017 SCALE: NTS

RAWN BY: WLF

CINEERFORGER

FOUNDATION DETAILS AND STRUCTURAL NOTES

GENERAL NOTES

- ENSINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAYS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARNS 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 LAYOUT DESIGN AND ACCURACY.
- ALL CONSTRUCTION SHALL CONSORM TO THE LATEST REQUIREMENTS OF THE MORTH CAROLINA RESIDENTIAL CODE (NORC) 2012 FIDITION 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 CONTROL 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 NORC, 2012 EDITION (R3014 + R301.1)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LETITED STORAGE	20	Ю	L/24Ø
ATTIC WITHOUT STORAGE	10	la Ea	L/36Ø
DECK5	40	lø	L/360
EXTERIOR BALCONIES	40	1Ø	L/36Ø
FIRE ESCAPES	40	Ø	L/36Ø
HANDRAILS/GUARDRAILS	700 LB OR 50 (PLF)	1Ø	L/36Ø
PASSENGER VEHICLE GARAGE	50	10	1./36Ø
ROOMS OTHER THAN SLEEPING ROO	40	Ю	L/36Ø
SLEEPING ROOMS	3Ø	1Ø	L/36Ø
STAIRS	40	Ø	1.736Ø
WIND LOAD	(BASED ON FIGURE R3012(4) WIND ZONE AND EXPOSURE)		
GROUND SHOULLOAD: Pg	2Ø (PSF)		

- · INJOIST SYSTEMS DESIGNED WITH IZ PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FOR 90 AND 100 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R40316 OF THE NORC, 2012 EDITION. FOR 100 MPH, 000 MPH, AND 1300 MPH WIND ZONES, FOUNDATION ANCHORAGE 16 TO COMPLY WITH SECTION 4504 OF THE NORC, 2012 EDITION
- ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NORC 2012

FOOTING AND FOUNDATION NOTES

- 1 FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF, CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIPETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND PORECKI MATERIAL, REFOODED, FILL MATERIAL, SHALL BE FREE OF VEGETATION AND PORCKI MATERIAL, THE FILL SHALL BE COMPACTED TO ASSING WITHOUTH STRONG OF THE FILL SHALL HOT EXCED TAY FOR CLEAN SAND OR GRAVEL. A A "THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE WITH SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE WITH THE SAND OR SAND-GRAVEL SHALL BE PLACED. A BASE GRACELY LACCORDING TO THE WRITE SOILS CLASSFIED AS GRACELY LACCORDING TO THE WRITE SOILS CLASSFIED AS GRACELY LACCORDING TO THE WRITE SOILS CLASSFIED AS
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. B APPLICABLE, 3/4" - I" DEEP CONTROL JOINTS ARE TO BE SAIDED WITHIN 4 TO D HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R4/2/2 OF THE NORG, 2/0/2 EDITION. CONCRETE REINFORCING STEEL TO BE ASTIT AGIS GRADE 6/0. BELLOED WEE FARRICT OR BE ASTH ARB, HANTAN A HANTAN CONCRETE COVER AROUND REMOGRAMS STEEL OF 3" IN FOOTINGS AND 112" IN
 SLABS, FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REPORCING STEEL HEASURED FROM THE INSIDE FACE OF THE WALL SHALL
 SHALL NOT BE LESS THAN 14", CONCRETE COVER FOR REMOGRAMS STEEL MEASURED FROM THE UNISIDE FACE OF THE WALL SHALL
 SHALL NOT BE LESS THAN 1 10" FOR 5 BARS OR SHALLER, AND NOT LESS THAN 2" FOR "6 BARS OR LARSER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/THS 402, MORTAR SHALL CONFORM TO ASTMICENO.
- 6. THE UNSUPPORTED HEIGHT OF MASCHRY PIERS SHALL NOT EXCEED FORR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOU CONCRETE MASCHRY BUTS AND TEN THES THEIR LEAST OPHISHIGH FOR SOLID OR SOLID FILLED PIERS. PERS HAY SE FILLED SOLID WITH CONCRETE OR TYPE M OR S PROFILER PIERS AND WALLES SHALL SE CAPPED WITH 6"O SOLID MASCHRY.
- 1. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING, EACH GIRDER SHALL BEAR IN THE
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R40/4 CE THE MCRC, FOR EDITION OR IN ACCORDANCE BITH ACT SIS, ACT 337, NCPIA TROS. A OR ACCESS 50/436CE 5/THS 407, MACOINTY FOUNDATION BALLS ARE TO BE REPROJECTED PRET FABLE REPORTED FOR THE MCRC, 2017 EDITION, CONCRETE FOUNDATION BALLS ARE TO BE REPROJECTED PRET FABLE REPORTED FOR THE MCRC, 2017 EDITION, STEP CONSCRETE FOUNDATION BALLS AT ARE TO BE REPORTED FOR TABLE REPORTED FOR THE MCRC, 2017 EDITION, STEP CONSCRETE FOUNDATION BALLS AT A SET TO BE REPORTED BALLS AT A FRANCE DE PRET ABLE, REPORTED FOR THE MCRC, 2017 EDITION, STEP CONSCRETE FOUNDATION BALLS AT A FRANCE DE PRET ABLE, REPORTED FOR THE MCRC. 2017 EDITION AND STEP CONSCRETE FOUNDATION BALLS AT A FRANCE DE PRET ABLE, REPORTED FOR THE MCRC. 2017 EDITION AND STEP CONSCRETE FOUNDATION BALLS AT A FRANCE DE PRET ABLE, REPORTED FOR THE MCRC. 2017 EDITION AND STEP CONSCRETE FOUNDATION BALLS AT A FRANCE DE PRET ABLE, REPORTED FOR THE MCRC. 2017 EDITION AND STEP CONSCRETE FOUNDATION BALLS AT A FRANCE DE PRET ABLE REPORTED FOR THE MCRC. 2017 EDITION AND STEP CONSCRETE FOUNDATION BALLS AT A FRANCE DE PRET ABLE REPORTED FOR THE MCRC. 2017 EDITION AND STEP CONSCRETE FOUNDATION BALLS AT A FRANCE DE PRET ABLE REPORTED FOR THE MCRC. 2017 EDITION AND STEP CONSCRETE FOUNDATION BALLS AT A FRANCE DE PRET ABLE REPORTED FOR THE MCRC. 2017 EDITION AND STEP CONSCRETE FOUNDATION BALLS AT A FRANCE DE PRET ABLE REPORTED FOR THE MCRC. 2017 EDITION AND STEP CONSCRETE FOUNDATION BALLS AT A FRANCE DE PRET ABLE REPORTED FOR THE MCRC. 2017 EDITION AND STEP CONSCRETE FOR THE MCRC. 2017 EDITION AND STEP CONSCRETE FOR THE MCRC. 2017 EDITION AND STEP CONSCRIPT BALLS AT A FRANCE FOR THE MCRC. 2017 EDITION AND STEP CONSCRIPT BALLS AT A FRANCE FOR THE MCRC. 2017 EDITION AND STEP CONSCRIPT BALLS AT A FRANCE FOR THE MCRC. 2017 EDITION AND STEP CONSCRIPT BALLS AT A FRANCE FOR THE MCRC. 2017 EDITION AND STEP CONSCRIPT BALLS AT A FRANCE FOR THE MCRC. 2017 EDITION AND STEP CONSCRIPT BALLS AT A FRANCE FOR THE MCRC. 2017 EDITION AND STEP CONSCRIPT BALLS AT A FRANCE FOR THE MCRC. 2017 EDITION AND STEP CON

FRAMING NOTES

- ALL FRAMING LUMBER SHALL BE 7 SFF MINIMUM (Fb \pm 815 PS), Fy \pm 315 PS), E \pm 16000000 PSI) UNLESS NOTED OTHERUISE (UNO). ALL treated lumber shall, be 12 stp minimum (fo + 915 ps), fv +115 ps), e + 16000000 ps)) unless noted ofheruise (uno)
- LAMINATED VENEER LIMBER (LVL) SHALL HAVE THE FOLLOUNG MINIMM PROPERTIES: FO : 2600 PSI, FV : 285 PSI, E : 1900000 PSI LAMINATED STRAND LIMBER (L9L) SHALL HAVE THE FOLLOUNG MINIMM PROPERTIES: FO : 2325 PSI, FV : 310 PSI, E : 1950000 PSI. PARALLEL STRAND LIMBER (PSUJUP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINITUM PROPERTIES: FG : 7500 PSI, E : 800000 PSI, PARALLEL STRAND LIMBER (PSU) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINITUM PROPERTIES: FG : 2900 PSI, E : 200000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.

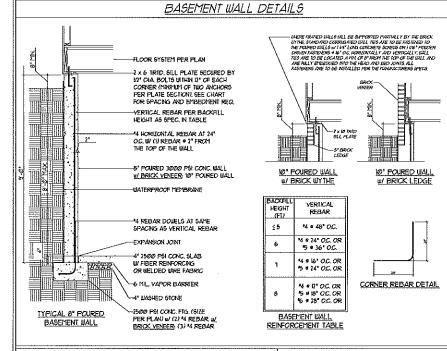
SINUCIU	KAL SIEEL SHALL CONFORT TO THE	HULLCAUNG AS IN SPECIFICATIONS
A.	U AND UT SHAPES:	ASTM A992
B.	CHANNELS AND ANGLES:	ASTM A36
C.	PLATES AND BARS:	ASTM A36
Ď.	HOLLOW STRUCTURAL SECTIONS:	ASTM A5000 GRADE B
E.	STEEL PIPE:	ASTM AS3, GRADE B, TYPE E OR S

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIFUM BEARNING LENGTH OF 3 V2* AND RULL FLANGE WIDTH (UND). PROVIDE SOLID BEARNS FROM BEAM SUPPORT TO POUNDATION, BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS

A UCCOD FRAMING (2) 1/2" DIA x 4" LONG LAG SCREUS (2) V2" DIA, x 4" WEDGE ANCHORS
(2) V2" DIA, x 4" LONG SPIFSON TITEN HD ANCHORS C. MASONRY (FILLY GROUTED)

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIONG THE JOISTS ARE TOE NAILED TO THE 1x NAILER ON TOP OF THE STEEL BEAY, AND THE 1x NAILER IS SECURED TO THE TOP OF THE STEEL BEAY W (2) ROUS OF SELF TAPPING SCREUG * 16" OC. OR (2) ROUS OF M' DIAPETER BOLTS # 16" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER THE STEEL BEAM SHALL, BE FABRICATED W (2) ROUS OF 3/16" DIAMETER

- 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.
- ALL LOAD BEARING READERS TO CONFORM TO TABLE R5025(1) AND R5025(2) OF THE NORC 2012 EDITION OR BE (2) 2 x 6 BRTH (0 JACK AND (1) KING STUD EACH END (UNO), WHICHEYER 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).
- ALL BEAMS, NEADERS, OR GIRDER TRUSSES PARALLEL TO BUALL ARE TO BEAR RULLY ON (I) JACK OR (I) STUDS MINIMAN OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO BUALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE I IT! MINIMM BEARRY (INO). ALL BEAMS OR GROER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR RALLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (INO). BEAM BYDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- FLITCH BEAMS SHALL BE BOLIED TOGETHER USING VZ* DIAMETER BOLTS (ASTM A301) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMIM), 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 CURRENT NORTH CAROLINA RESIDENTIAL CODE WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION RE021/2.
- 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.
- 17. FOR ALL HEADERS SUPPORTING BRICK YENEER THAT ARE LESS THAN 8'.0" IN LENGTH, REST A 6" x 4" x 5/6" STEEL ANGLE WITH 6" MINIMM EMBEDMENT AT SIDES FOR BRICK SUPPORT. FOR ALL HEADERS 8'.0" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/6" STEEL ANGLE TO HEADER WITH W' LAG SCREWS AT IX" OC. STAGGERED FOR BRICK SUPPORT, FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO 2 x Ø BLOCKING INSTALLED BETWEEN WALL STUDS WITH V2" LAG SCREWS AT 12" O.C. STAGGERED AND IN
- 13. FOR STICK FRAMED ROOPS: 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 ROUB OF IZA NAILS AT 16" OC. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOUN (UNO).
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C., AND FLAT 2 x 10 YALLEYS (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 HG OR LISIZ UPLIFT CONNECTOR FASTERED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF BINFSON CS16 COIL STRAPPING WITH (8) BUT HOS NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.



STRUCTURAL NOTES:

- FOR 14 REBAR 741 MINIMI REBAR LAP SPLICE LENGTH, FOR 15 REBAR 321 MINIMIM REBAR LAP SPLICE LENGTH, FOR 16 REBAR 381 FINITUM REBAR LAP SPLICE LENGTH REBAR 10 MANIAN A MINIMI CONCRETE COVER TO SOLLS OF 31 AND TO FORTWORK
- REBAR TO BE ASTH AGE GRADE 60. SOIL BEARING CAPACITY IS REQUIRED TO BE 2000 PSF MIN.
- NSTALL 4 L-BARS AT ALL WALL CONSERS AT SAME SPACING AS HORIZ STEEL. SEE
- THE FLOOR FRAMING IS TO BE INSTALLED AND A MINL OF SEVEN DAYS IS REQUIRED TO ALLOS IRE CONCRETE TO CIRCE BEFORE THE BACKFUL CAN BE INSTALLED. THE BACKFUL AT LOST AS CONCRETE TO CIRCE BEFORE THE BACKFUL CAN BE INSTALLED. THE BACKFUL AT LATEOU.

 4 **LEDGE IS TO BE PROVIDED FOR THE FORCE GLAB. THE BALLS ARE REQUIRED TO BE BONDED TO THE SLABS ISSNO *4 × 36* REBAR DOUBLE 33** OC. BYBEDDED 4* INTO THE
- EXPORED TO THE SEAS BANG MIX 36" REDAIN POURLES 31" OLD EPIEZDEDE 4" INTO THE CORK, USING PREPART.

 HERE THE FLOOR JOISTS ARE PARALLEL TO THE UMLLS, 2" X 4 BLOCKING 15 TO BE WISTALLED 11" OLD EPIEZDE THE BOTTOTH FLAKES OF THE FLOOR STRITET FOR A THIN, OF 6"-0" AUMY FROM THE UMLL, OR DIAGONAL 2" X 6 BLOCKS MAY BE NOTALLED 74" OLD THE TOP FLAKSE AND SUBFLOORNIA, ATTACHED UV (3) TICH MAILS EACH END.

NOTE TO FOUNDATION CONTRACTOR:

ALTERNATE REINFORCED CONCRETE POURED WALL DESIGNS ENGINEERED BY OTHERS MAY BE CONSTRUCTED, NO CONTINUOUS FOOTINGS OR LUG FOOTINGS MAY BE REDUCED IN SIZE.



GENERAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRICTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAYS, HEADERS, COLUMS, CANTILLEYERS, OFFET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND ROOTING. ENGINEER'S SEAL DOES NOT CERTIFY DISHONAL, ACCURACY OF ARCHITECTURAL LATOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO 1-JOIST OR FLOORROOT TRUSS LATOUT DESKIN AND ACCURACY.
- 2. ALL CONSTRUCTION SHALL CORPORT TO THE LATEST REQUIREMENTS OF THE HORTH CAROLINA RESIDENTIAL CODE (NERC.) 2011 EDITION, PLUS ALL LOCAL CODES AND RESILLATIONS. THE STRUCTURAL DYONEER IS NOT RESPONSIBLE FOR AND WILL NOT MAYE CONTROL OF, CONSTRUCTION MEANS, RETMODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROCRASTS IN CONNECTION WITH THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONSTRUCTION.
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NORG, 2012 EDITION (R3014 R301.1)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	₩	L/240
ATTIC UITHOUT STORAGE	Ø	10	1/360
DECKS	40	10	£/36Ø
EXTERIOR BALCONIES	40	10	£/36Ø
FIRE ESCAPES	40	10	L/360
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	₩	L/360
PASSENGER VEHICLE GARAGE	50	₩	L/360
ROOMS OTHER THAN SLEEPING ROO	40	Ю	L/360
SLEEPING ROOMS	3Ø	100	L/36Ø
STAIRS	40	100	L/36Ø
WIND LOAD	(BASED ON FIGURE R3Ø12(4) WIND ZONE AND EXPOSURE)		
GROUND SNOW! OAD: Fa	2Ø (P9E)		

- 1-JOIST SYSTEMS DESIGNED WITH IZ PSF DEAD LOAD AND DEFLECTION (IN) OF L/4800
- FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- 4. FOR 90 AND 100 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COPPLY WITH SECTION R40316 OF THE NCRC, 2012 EDITION. FOR 100 MPH, 120 MPH, 2ND 130 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COPPLY WITH SECTION 4504 OF THE NCRC, 2012 EDITION.
- ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NORC, 10/12
 EDITION

FOOTING AND FOUNDATION NOTES

- I. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 2. FOR ALL CONCRETE SLABS AND POOTINGS, THE AREA WITHIN THE PERMITTER OF THE BUILDING BIVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREKIN MATERIAL, REPOWLED, FILL MATERIAL, SHALL BE FREE OF VEGETATION AND FOREKIN MATERIAL, THE FILL SHALL BE COTPACTED TO ASSIGN ENIROPH SHIPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPIHS SHALL NOT EXCEED AY FOR CLEM SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEM GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE IS ALS BY INSTITUTED AS GRAVEL SHALL BE PLACED. AS GRAVEL SHALL BE PLACE
- 3. PROPERLY DEBATER EXCAYATION PRIOR TO POURNG CONCRETE WEN BOTTOM OF CONCRETE SLAB IS AT OR BELIQUIBATER TABLE. IF APPLICABLE, 3/4" I" DEEP CONTROL JOINTS ARE TO BE SAUED WITHIN 4 TO 17 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION RADIZ OF THE NORC, 2012 EDITION. CONCRETE RENFORCING STEEL TO BE ASIM A615 GRADE 60, WELDED WIRE FABRIC TO BE ASIM A65. MAINTAIN A MINIMUM CONCRETE COVER AROAND RENFORCING STEEL OF 3" IN FOOTINGS AND I 12" IN SUABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED PRIOR THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 34". CONCRETE COVER FOR REINFORCING STEEL MEASURED PRIOR THE WALL SHALL SHALL SHALL NOT BE LESS THAN 1" FOR 5" BARS OR SMALLER, AND NOT LESS THAN 2" FOR 5" BARS OR LARGER.
- MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/IT/S 4002, MORTAR SHALL CONFORM TO ASIM C710.
- 6. THE UNSUPPORTED HEIGHT OF MASCHRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASCHRY UNITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS, FERS MAY BE FILLED SOLID WITH CONCRETE OR TIME HIGH STROKEN PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASCHRY.
- THE CENTER OF EACH OF THE PIERS SHALL, BEAR IN THE HIDDLE THIRD OF ITS RESPECTIVE POOTING, 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 RIGH OF THE INCRC, ZOD EDITION OR IN ACCORDANCE WITH ACT 189, ACT 133, INCRU INSEA AD RICE SOJALSCE STIPLS 401. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE RAWALKI), RAWALKI21, RAWALKI31, OR RAWALKI41 OF THE INCRC, ZOD EDITION CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE RAWALKIS OF THE MERC, ZOD EDITION. STEP CONCRETE FOUNDATION WALLS TO 7 X 6 FRAMED WALLS AT 6" OC. WHERE GRADE PERMITS (MIO.).

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FRAMING NOTES

- ALL FRAYING LIMBER SHALL BE 7 SFF MINITUM (No. 815 PG), Fv = 315 PG; E = 6000000 PS) UNLESS NOTED OTHERUSES (UNO). ALL
 TREATED LIMBER SHALL BE 7 SYP MINITUM (No. 915 PG), Fv = 115 PG), Fv = 16000000 PS) UNLESS NOTED OTHERUSES (UNO).
- LAMMATED YEMEER LUMBER (LVL) SHALL HAVE THE FOLLOUNG MINIMUM PROPERTIES: Fb +2600 F9I, Fv + 285 F9I, E + 19000000 F9I.
 LAMMATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOUNG MINIMUM PROPERTIES: Fb + 2315 F9I, Fv + 330 F9I, E + 19000000 F9I.
 PARALLEL STRAND LUMBER (F9I, JUP 10 T) DEPTH SHALL HAVE THE FOLLOUNG MINIMUM PROPERTIES: Fc + 13000 F9I, E + 10000000 F9I.
 PARALLEL STRAND LUMBER (F9I, JMC) HORE THE SHALL HAVE THE FOLLOUNG MINIMUM PROPERTIES: Fc + 13000 F9I, E + 10000000 F9I.
 NSTALL ALL CONNECTIONS FRE MANUFACTURER'S SPECFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

A U AND UT SHAPES: ASTM A992
B. CHANNELS AND ANGLES: ASTM A96
C. FLATES AND BARGS. ASTM A36
C. HOLLOU STRICOURAL SECTIONS: ASTM A360 GRADE B
E. STEEL PIPE: ASTM A53, GRADE B, TYPE E OR 9

4. STEEL BEA15 SHALL BE SUPPORTED AT EACH END WITH A MINIMAN BEARN'S LEWSTH OF 3 12" AND RUL FLAKSE WIDTH (UND). PROVIDE SOLID BEARN'S PROTI BEAM SUPPORT TO FOUNDATION. BEA15 SHALL BE ATTACKED AT THE BOTTOM FLAKSE TO EACH SUPPORT AS FOLIOUS (IND).

A BOOD FRAMMS

27 107 DIA x 4" LONG LAG SCREU5

B. CONCRETE

(7) 107 DIA x 4" LONG STREED

(7) 107 DIA x 4" LONG STREED

(7) 107 DIA x 4" LONG STREED HID 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 of (2) ROUS OF SELF TAPPING SCREWS * 16" OC. OR (2) ROUS OF IO? DIAMETER BOALTS * 16" OC. * 10" BOALTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FASRICATED of (2) ROUS OF 96" DIAMETER BOALTS * 10".

- SCHARES 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 BEARNG HEADERS TO CONFORM TO TABLE PSØ25(I) AND PSØ25(2) OF THE NORC, 70% EDITION OR BE (2) 2 x 6 with (I) JACK AND (I) KING STUD EACH END (INO) WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS, ALL BEAYS TO BE SUPPORTED WITH (3) STUDS AT EACH BEARNS (POINT (INO).
- 1. ALL BEAYS, HEADERS, OR GIRDER TRISSES PARALLEL TO WALL ARE TO BEAR RILLY ON (I) JACK OR (2) STUDS HINMM OR THE NIMBER OF JACKS OR STUDS NOTED. ALL BEAYS OR GIRDER TRISSES FRETPHOLOLICAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 10" INNIMIN BEARING (IND). ALL DEAYS OR GIRDER TRISSES PERPENDICULAR TO WALL AND SUPPORTED BY 100E HAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR RILLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (IND). DEAY EXCS THAT BUILT NITO ONE ANOTHER ARE TO BEAR REALLY LOBBINS (NO.).
- FLITCH BEAMS SHALL BE BOLTED TOGETHER USING MY DIAMETER BOLTS (ASTH AS#1) WITH WASHERS PLACED AT THREADED BND OF BOLT. BOLTS SHALL BE SPACED AT 74" CENTERS (MAXINAPI), AND STAGGERED AT TOP AND BOTTOM OF BEAM (IN EDGE DISTANCE), WITH (I) BOLTS LOCATED AT 6" PROVI EACH BID (MIN).
- ALL 1-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.
- IO. BRACED WALL PAYELS SHALL BE CONSTRUCTED ACCORDING TO THE CURRENT NORTH CAROLINA RESIDENTIAL CODE WALL BRACING CRITERIA THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION REGIZIO.
- IL PROVIDE DOUBLE JOST INDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT INDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR INJUSTS FOR PLANTAGUINER'S SPECIFICATIONS. INSTALL BLOCKING DETIRED JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OPER LOAD LINES.
- 17. 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 BYBEDMENT AT SIDES FOR BRICK SUPPORT. FOR ALL HEADERS 8'.0° AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/6" STEEL ANGLE TO HEADER WITH IV! LAG SCREUG AT IV! OC. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/6" STEEL ANGLE TO 2 x 10 BLOCKING INSTALLED BETWEEN WALL STUDS WITH IV! LAG SCREUG AT W. OC. STAGGERED AND IN ACCORDANCE WITH SECTION RYDSTIZE OF THE INCRC, 2012 BOTTOM.
- 13. FOR STICK FRAMED ROOFS, CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE 10 BE SPACED A MINIMUM OF 8"-6". FASTEM MEMBERS WITH THREE ROUB OF INDIVIDUALS AT 16" O.C., FRAME DON'TER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (NOV).
- II. 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 (IND).
- IS. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 10/0 LB CAPACITY UPLIFT CONNECTORS FOR AND BOTTOM (UND.) POSTS MAY BE SECURED USING ONE SPIPSON HIS ONLEST CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE IS 19 SECTION OF SMIPSON CSIS COIL STRAPPING WITH (8) 2d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TUIST STRAP IF DESIRED. FOR THASONRY ON CONCRETE FORDATION USE STIPSON POST BASE.



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STANDARD STRUCTURAL NOTES

DATE: DECEMBER 22, 2017

DRAWN BY: JES ENGINEERED BY: JES

REVIEWED BY: JST

S-0 structural notes

