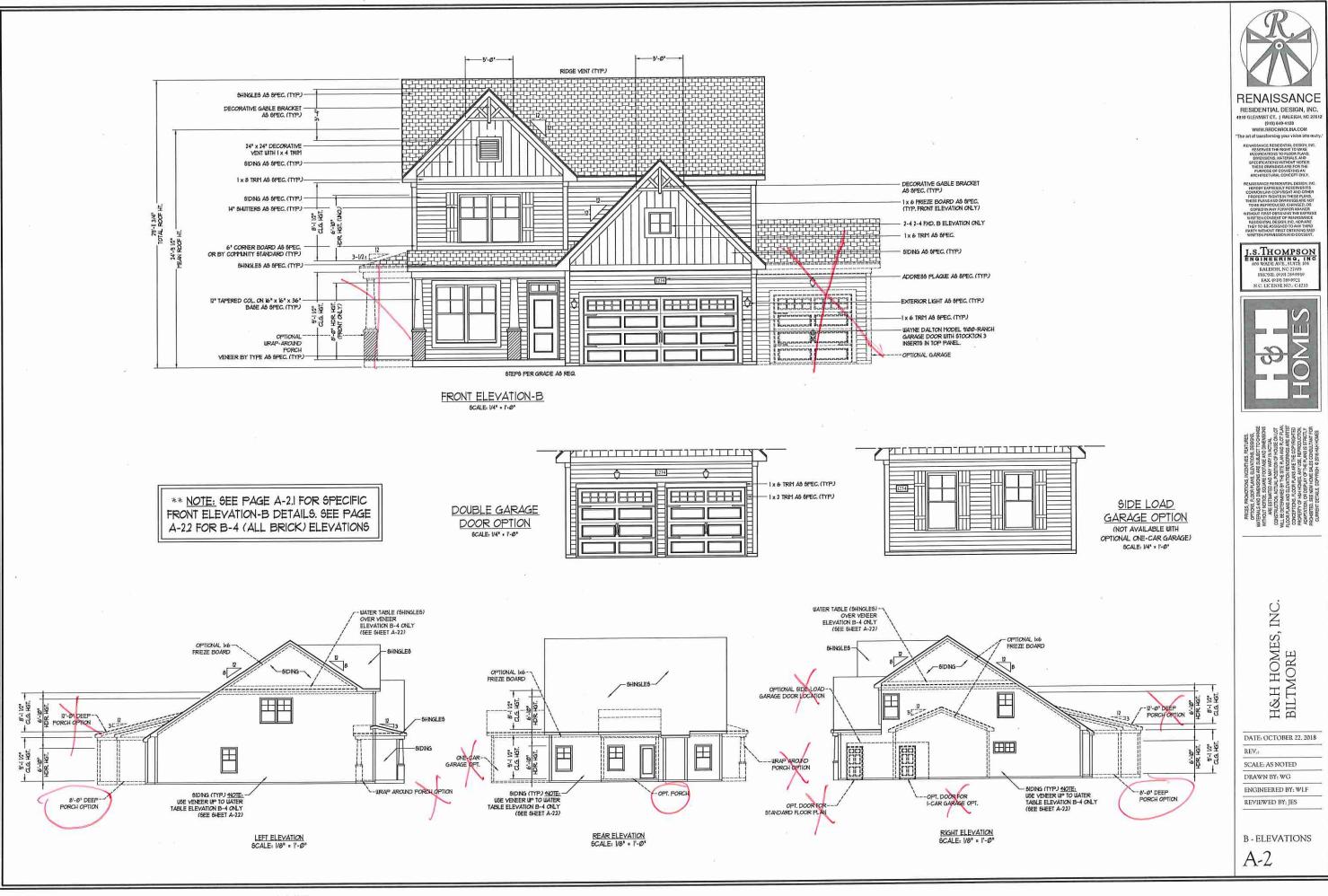
BILTMORE

BILTMORE **REVISION LIST - STRUCTURAL:**

- 1.) LUG FOOTING LOCATION AND SIZES ON SLAB, PIER SPACING/GIRDER LINE LOCATIONS SHIFTED IN CRAWL, ADDED LVL IN CRAWL, REMOVED/SHIFTED EXTRA JOISTS IN CRAWL AND SECOND FLOOR FRAMING, UPDATED WALL BRACING TOTALS AND ADDED HATCHING AT DINING ROOM WALL, FRAMING AT BOTTOM OF STEPS/MASTER BEDROOM, COLUMN/BEAM CHANGES AT DINING AND KITCHEN AREAS. ADDED NOTE 8 ON SECOND FLOOR FRAMING NOTE BLOCK, ADDED BALLOON FRAMING NOTES ON CEILING FRAMING, CHANGED NOTE 6 ON ROOF FRAMING NOTE BLOCK, CHANGED ROOF FRAMING FOR VAULT IN FRONT BEDROOM (12-28-15)
- 2.) SHIFTED CASED OPENING INTO MASTER BEDROOM AND DOWNSIZED HEADER. RESIZED LVL IN CRAWL TO ACCOMMODATE (10-18)
- 3.) 2 x 6 GARAGE WALLS (3 PLY HEADERS AND 2X6 STUD COLUMNS (10-18)
- 4.) TSP AT ALL MULTIPLE UNIT WINDOWS (10-18)
- 5.) UPDATED PLAN FOR 2018 NC CODE (UPDATED ALL NOTES AND WALL BRACING (10:18))
- 6.) ADDED I-JOIST SERIES & SPACING SECOND FLOOR FRAMING AND CRAWL. INCREASED JOIST SERIES IN CRAWL AT LIVING

BILTMORE REVISION LIST - ARCHITECTURAL:

- 1.) LAUNDRY MODIFIED TO FIT LARGER APPLIANCES (9-13-13)
- 2.) WINDOWS UPDATED (114-13)
- 3.) REMOVED CHASE IN MASTER BATH AND MADE VANITY 72" WIDE (6-16-15)
- 4.) WINDOWS UPDATED TO NEW 3-0 5-0 STANDARD, WRAP PORCH OPTION ADDED (6-30-15)
- 5.) ADDED 24° TO DINING AND BEDROOM ABOVE. OPENED UP KITCHEN AND DINING AREA SIMILAR TO MODEL HOME. OFFSET MASTER BEDROOM DOOR TO ACCOMMODATE 10' STAIR TREADS. VAULTED SECOND FLOOR BEDROOMS #2 & #3.
- 6.) SHIFTED MASTER BEDROOM DOOR AND CASED OPENING ON ADJACENT WALL TOWARDS REAR OF HOUSE BY 6" (10-18)
- 7.) MOVED PLUMBING DROP FROM WALL BEHIND WASHER TO W.I.C. WALL BEHIND SHOWER. (10-18)
- 8.) CHANGED ALL DOUBLE STUD POCKETS BETWEEN WINDOWS TO TRIPLE STUD POCKETS (10:18)
- 9) ADDED CLOSET SHELVING NOTES (10-18)
- 10.) CHANGED FRONT LOAD GARAGE DOOR EXTERIOR WALL AND NOTE TO REFLECT 2x6 WALL IN LIEU OF 2x4 WALL (10-18)
- 11.) UPDATED CUTSHEETS TO NEW FORMAT (10-18)
- 12.) REMOVED ALL BRICK FRONT ELEVATIONS FROM ELEVATION OPTION SHEETS (10-18)
- 13.) ADDED ONE CAR GARAGE OPTION TO ELEVATION OPTION SHEETS (10-18)
- 14.) CHANGED GARAGE DOOR INSERTS FROM STOCKTON 2 TO STOCKTON 3 ON ALL "B" ELEVATIONS, (10-18)
- 15.) CHANGED SIDING NOTES TO SPECIFY FIBER CEMENT SIDING ON A4, B4 AND C4 ELEVATIONS. (10-18)







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H&H HOMES, INC. BILTMORE

DATE: OCTOBER 22, 2018

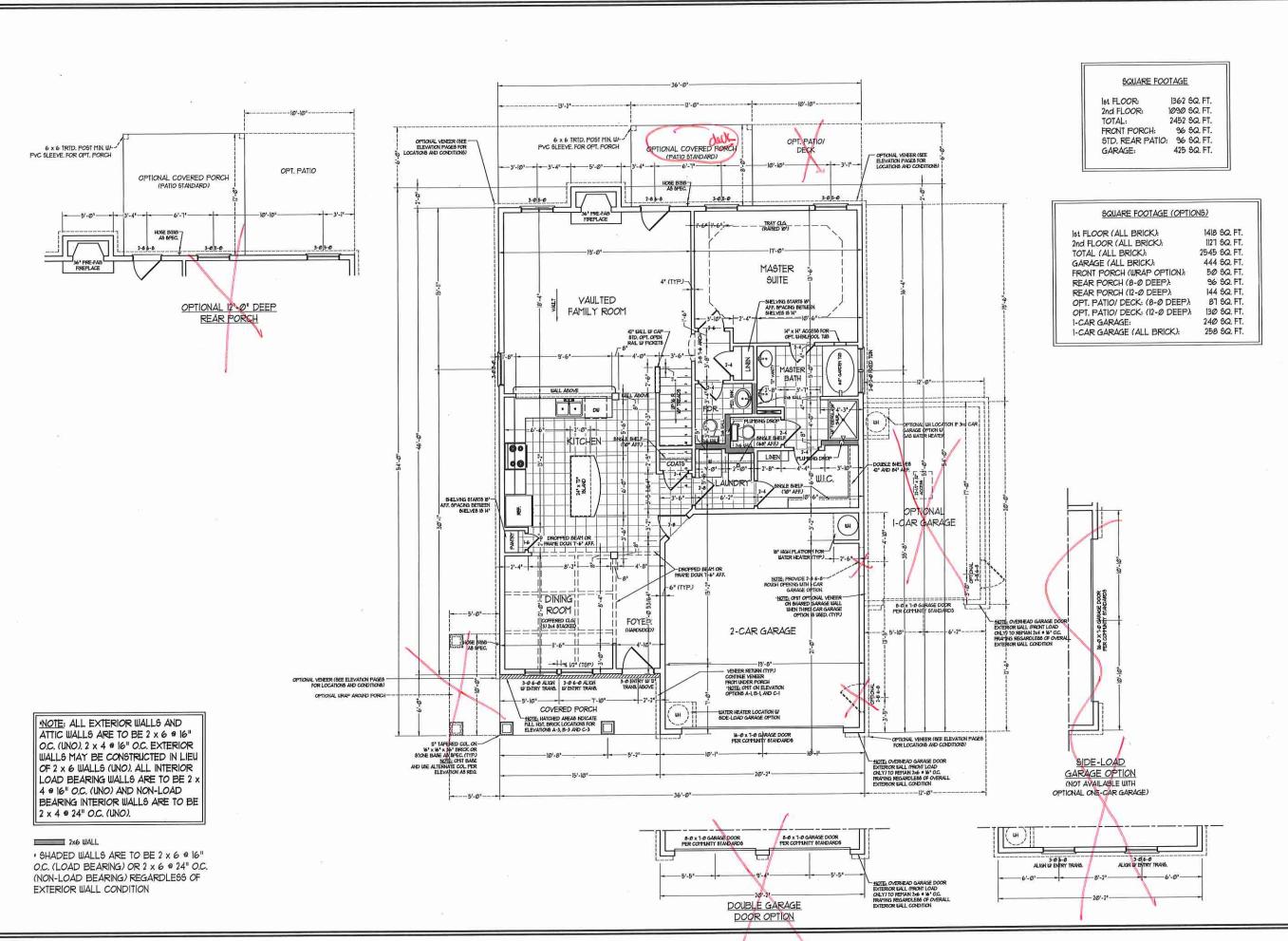
REV.:

SCALE: AS NOTED
DRAWN BY: WG

ENGINEERED BY: WLF REVIEWED BY: JES

B - ELEVATION

OPTIONS A-2.1



R

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H&H HOMES, INC. BILTMORE

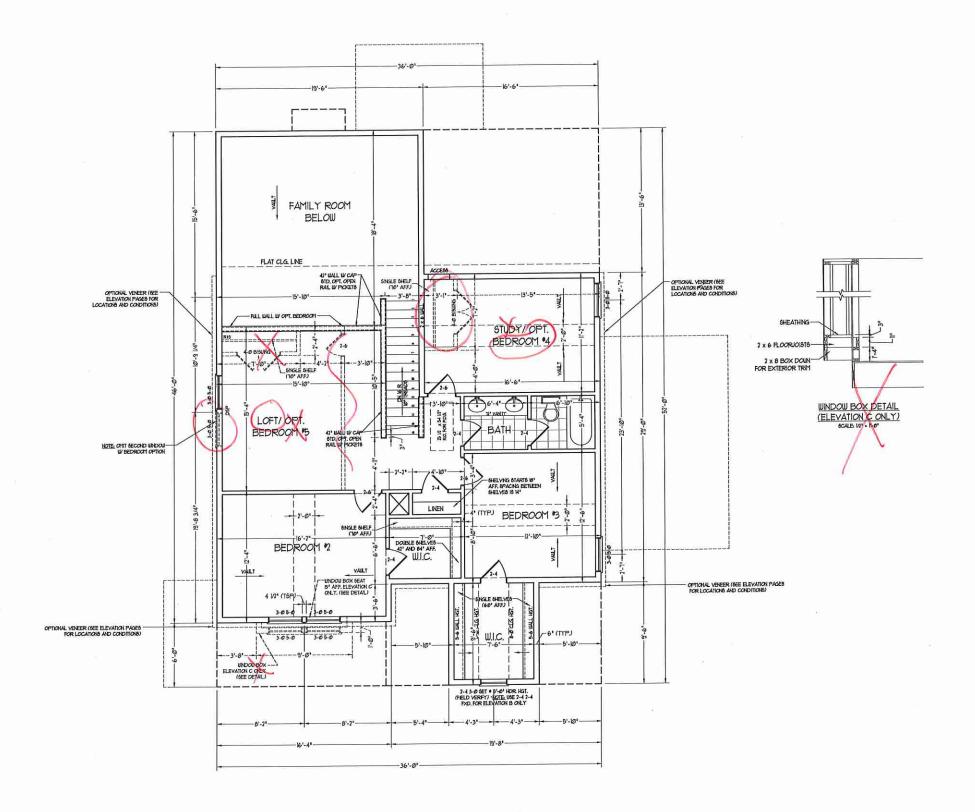
DATE: OCTOBER 22, 2018

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

DRAWN BY: WG ENGINEERED BY: WLF

REVIEWED BY: JES

FIRST FLOOR PLAN



NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 9 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 9 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 9 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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DATE: OCTOBER 22, 2018

REV.:

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

DRAWN BY: WG

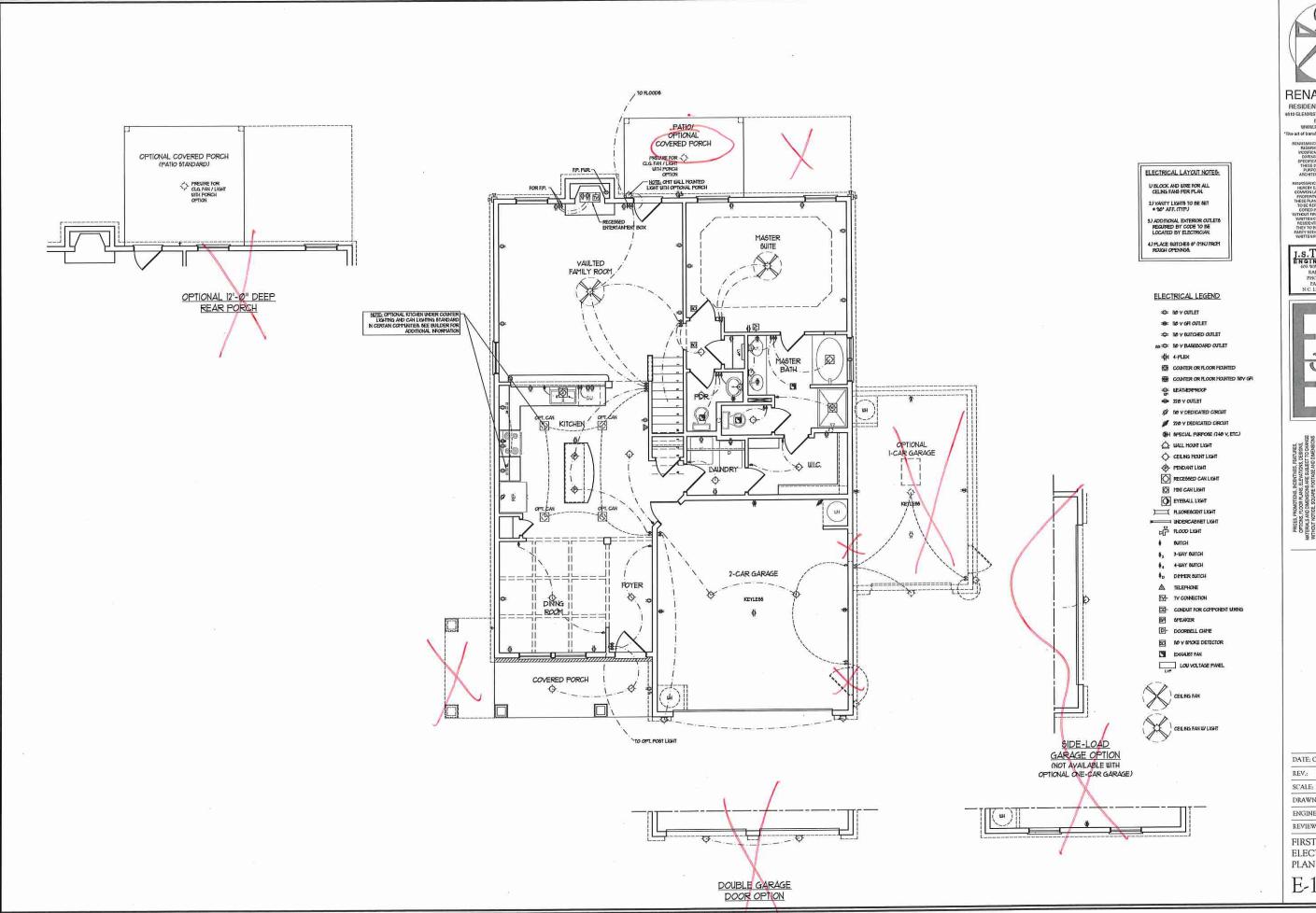
ENGINEERED BY: WLF
REVIEWED BY: JES

SECOND FLOOR

A-5

PLAN

C:\Users\Wade\Documents\Projects\H&H Homes\Biltmore\Biltmore_NC\Biltmore_GO\Biltmore_10-22-18.dwg, 11/13/2018 5:21:34 PM





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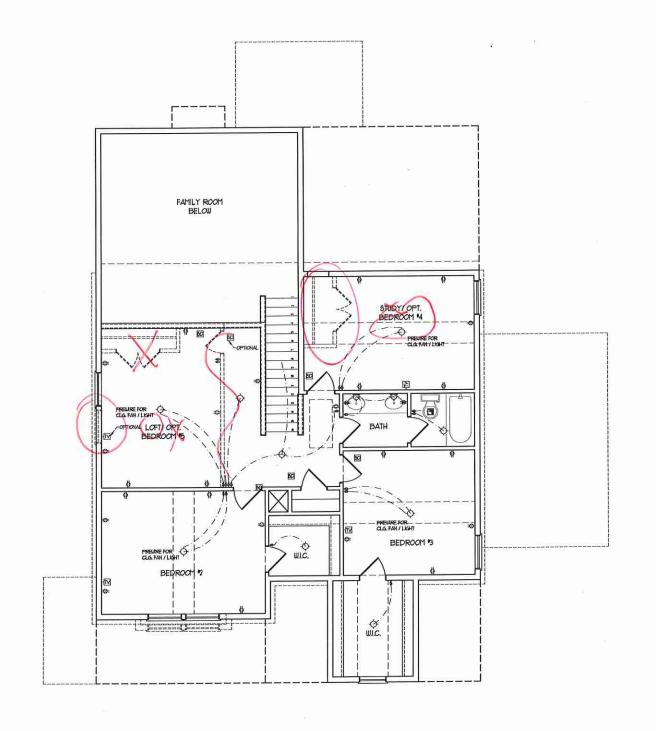
SCALE: 1/4"=1'-0"

DRAWN BY: WG

ENGINEERED BY: WLF

REVIEWED BY: JES

FIRST FLOOR ELECTRICAL PLAN



ELECTRICAL LAYOUT NOTES:

U BLOCK AND WIRE FOR ALL CELING FANS PER FLAN

4) PLACE BUTTCHES S" (HIN) FRICH ROUGH OFFENINGS.

ELECTRICAL LEGEND

- DE NO YOUTLET
- NO Y GH CUTLET
- IN C IN Y BASEBOARD OUTLET
- 中 4·PLEX
- S COUNTER OR FLOOR MOUNTED
- COUNTER OR FLOOR HOUNTED NOV GF
- G LEATHERFROOF
- ₩ 20 V CUTLET
- IN Y DEDICATED CIRCUIT
- 20 V DEDICATED CROUT
- (DH SPECIAL PURPOSE (140 V, ETC.)
- THE WALL HONE FROM O- CELLING HOUNT LIGHT
- BECERRED CAN FRAIL
- MNI CAN LIGHT
- ELEBATT FRAIL

)______(FLUORESCENT LIGHT

- 다. Hroco rieni
- \$ SUITCH \$3 3-BAY BUTCH
- 4. 4-MAY BUTCH
- DHER SUTCH △ TELEPHONE
- TY CONNECTION
- CONDUIT FOR COMPONENT WIRE
- OF SPEAKER D- DOORBELL CHINE
- 10 V SMOKE DETECTOR
- DOLANGT FAN LOW YOUTAGE PANEL





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DATE: OCTOBER 22, 2018

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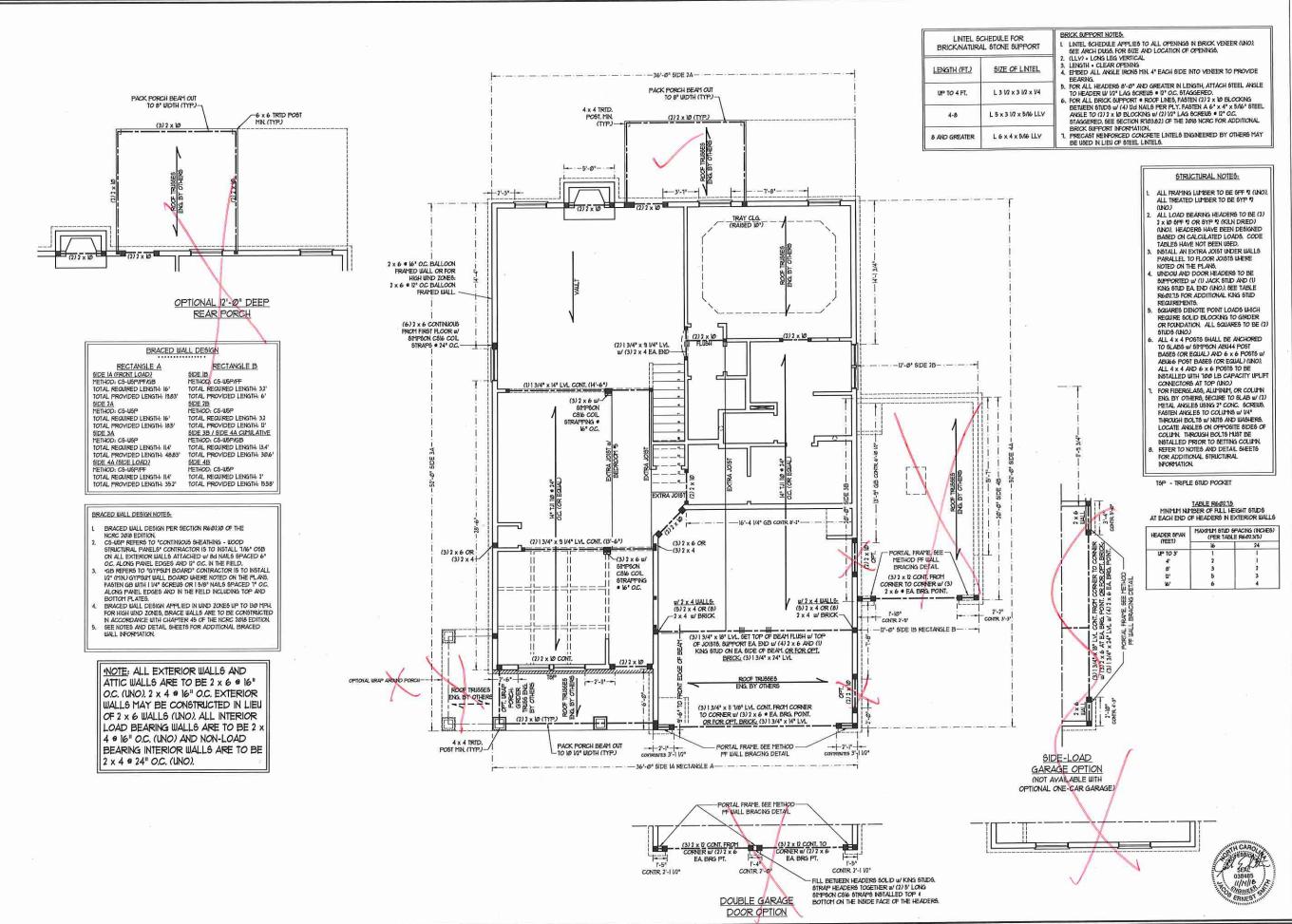
SCALE: 1/4"=1'-0"

DRAWN BY: WG

ENGINEERED BY: WLF REVIEWED BY: JES

SECOND FLOOR ELECTRICAL PLAN

E-2





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Ž H&H HOMES, I BILTMORE

DATE: OCTOBER 22, 2018

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

S-2

DRAWN BY, WG ENGINEERED BY: WLF

REVIEWED BY: IES

SECOND FLOOR FRAMING PLAN

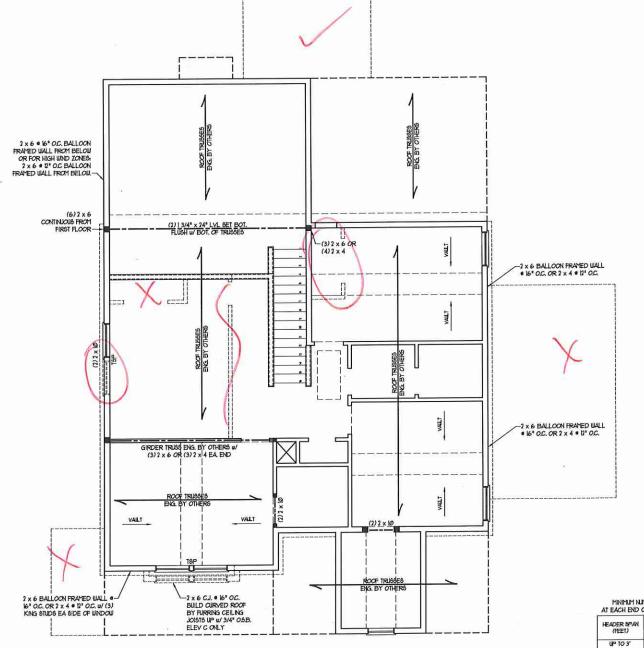
WINDOW BOX DETAIL

-2 x 6 FLOOR JOISTS @

COVER JOISTS AS WELL

- NSTALL CONT. 1/6" OSB SHEATHING ON OUTSIDE OF BRACED WALLS, ATTACH OSB WITH BUT NAILS 3" O.C. ALONG EDGES AND 6" OC. IN THE FIELD. NSTALL SYMPSON L'10 COPNERS BRACKETS 24" O.C. IN CORNERS.

-FRAME DOWN FER DETAIL ON SECOND FLOOR ARCHITECTURAL SHEET.



NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 9 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).

BRACED WALL DESIGN NOTES:

WALL INFORMATION

- BRACED WALL DESIGN FER SECTION R60110 OF THE NCRC 2010 EDITION.
 C5-USP REFERS TO 'CONTINUOUS SHEATHING WOOD STRUCTURED, PARELS' CONTRACTOR 16 TO NOTALL TIME 'OSB ON ALL EXTERIOR WALLS ATTACHED W OR NAILS SPACED 6" OC. AL ONG PANEL EDGES AND 1" OC. IN THE FIELD.
 GB REFERS TO 'GTPSWIT BOARD' CONTRACTOR 15 TO NOTALL IN" (THIN GTPSWIT WALL BOARD WHERE NOTED ON THE FLANS, FASTEN GB WITH I IM" SCHOOL WHERE NOTED ON THE FLANS, FASTEN GB WITH I IM" SCHOOL ON THE FIELD NICLIDING TOP AND BOTTOM FLATES.
 BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO US MYPHOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NCRC 2010 EDITION.
 SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL NEGRETAIL SHEETS FOR ADDITIONAL BRACED WALL NEGRETAIL SHEETS FOR ADDITIONAL BRACED WALL NEGRETAILS.

- L PER SECTION R601/032 OF THE 2018 NCRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT
- PRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL AVALYSIS IS REQUIRED.

 2. SHEATH ALL EXTERIOR WALLS WITH THE "OSB SHEATHING ATTACHED WITH BE MAILS AT 6" OC. ALONG PANEL EDGES AND IZ" OC. IN THE FIELD.

CHEDULE FOR AL STONE SUPPORT
SIZE OF LINTEL
L 3 1/2 x 3 1/2 x 1/4
L 5 x 3 1/2 x 5/16 LLV
L 6 x 4 x 5/16 LLY

BRICK SUPPORT NOTES:

- LINTEL SCHEDULE APPLIES TO ALL LINTEL SCHEDULE APPLIES TO ALL
 OPENINGS IN BRICK VENER (INO.). SEE
 ARCH DUISS, FOR SUZE AND LOCATION OF
 OPENINGS.
 (ILLV) = LONG LEG VERTICAL
 LENGTH • CLEAR OPENING
 BY BEIGHT ALL ANGLE 100% HIN 4" EACH
 SIDE NTO VENERS TO PROVIDE BEARING.
 FOR ALL HEADERS 8"-8" AND GREATER
 N LENGTH, ATTACH STEEL ANGLE 10
 HEADER W 10" LAG SCREWS • 12" O.C.
 STAGGERED.

- HEADER W I/3" LAG SCREUS ® 12" O.C.
 STAGGERED.
 FOR ALL BRICK SUPPORT ® ROOF LINES,
 FASTEN (7) 2 x 10 BLOCKING BETWEEN
 STIDOS w (4) VOI ANALS PER PLY. FASTEN
 A 6" x 4" x 5/6" STEEL AYCLE TO (2) 2 x
 10 BLOCKING W (7) I/3" LAG SCREUS ® 12"
 O.C. STAGGERED. SEE SECTION R103821
 OF THE 7010 NORS FOR ADDITIONAL
 BERCH SUBSORT BEOGRAPHICA
- BRICK SUPPORT INFORMATION
 PRECAST REINFORCED CONCRETE
 LINTELS ENGINEERED BY OTHERS MAY BE
 USED IN LIEU OF STEEL LINTELS.

TABLE R602.15 MINIMUM NUMBER OF FULL HEIGHT STUDS

HEADER SPAN (HEET)		BPACING (INCHES) LE R6023(5)
	16	24
UP TO 3'	1	1
4"	2	1
8'	3	2
12"	5	3
16'	6	4

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE 12 SFF
- (UNO). ALL LOAD BEARING HEADERS TO BE (2) 2 x lØ (UNO). UNDOW AND DOOR HEADERS TO BE
- SUPPORTED W/ (I) JACK STUD AND (I) KING STUD EA END (UNO.), SEE TABLE RE02.15 FOR ADDITIONAL KING STUD
- REQUIREMENTS. SQUARES DENOTE PONT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SQUARES TO BE (2) STUDS (UNO.) REFER TO NOTES AND DETAIL SHEETS
- FOR ADDITIONAL STRUCTURAL INFORMATION.

TOP - TRIPLE STUD POCKET





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H&H HOMES, IN BILTMORE

DATE: OCTOBER 22, 2018 REV.:

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

DRAWN BY: WO ENGINEERED BY: WLF

REVIEWED BY: IES

ATTIC FLOOR FRAMING PLAN S-3



2030 SQ. FT. OF ATTIC DIVIDED BY BØ REQUIRES 135 SQ. FT, OF NET FREE VENTILATING AREA (MIN.).

STRUCTURAL NOTES:

- STRUCTURAL NOTES:

 ALL FRAMING LUMBER TO BE 92
 9FF (IMO).
 CIRCLES DENOTE (3) 2 x 4 POSTS
 FOR ROCK SUPPORT.
 I FRAME DORTER WALLS ON TOP
 OF DOUBLE OR IRITLE RATERS.
 I HIP SPILCES ARE TO BE SPACED
 A MIN OF 8-0°, FASTSIN
 MEMBERS WITH MREE ROUS OF
 20 MILLS 1 IS TO DE. SPACED
 A MIN OF 8-0°, FASTSIN
 PETERS 10° IS TO DE. SPACED
 A MIN OF 8-0°, FASTSIN
 PETERS 10° IS TO DE. SPACED
 A MIN OF 10° OC. (TYP)
 5, STICK FRAME OVER FRAMED
 ROOF SECTIONS WI 2 x 6 PICACES,
 2 x 6 RAFTERS 0 "OC. AND
 H.AT 2 x 10° VALLEYS OR USE
 VALLEY TRISSES.
 5, FASTSIN H.AT VALLEYS TO
 RAFTERS OR TRISSES WITH
 SYTOCH MAY PASS HIRRICANE
 TIES THROUGH NOTCH IN ROOF
 SHEATHING. EACH RAFTER IS TO
 BE FASTSINED TO THE H.AT
 VALLEY WITH AND OF (6) DO
 TOE MAILEY WITH A STEERS AND
 TRISSES.
 18, REFER TO SECTION FROM INC.
 STRUCTURAL
 ST



RENAISSANCE

RESIDENTIAL DESIGN, INC.

H&H HOMES, INC. BILTMORE

DATE: OCTOBER 22, 2018

REV.:

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

DRAWN BY: WG ENGINEERED BY: WLF

REVIEWED BY: JES

ROOF PLAN **ELEVATIONS** A&B

MASONRY STEMWALL SPECIFICATIONS

GROUT SOLID

GROUT SOLID

GROUT SOLID by 14

NOT APPLICABLE

NOT APPLICABLE

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

1. TIE MULTIPLE WITHES TOGETHER WITH LADDER WIRE AT 16° OC. VERTICALLY.

3. CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE

4. BACKFILL OF CLEAN \$71 / \$7 WASHED STONE IS ALLOWABLE.

5. BACKFILL OF CLEAN \$71 / \$7 WASHED STONE IS ALLOWABLE.

5. BACKFILL OF LICE PRAINED OR SAND - GRAVEL MIXTURE SOILS (45 PSF-87 BELOW GRADE)
CLASSFIED AS GROUP I ACCORDING TO INFIED SOILS CLASSFICATION SYSTEM IN ACCORDANCE
WITH TABLE RAPS OF THE 2019 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

6. PREP \$1.00 PER RESIDENTIAL AND PSP-622 BASE OF THE 2019 INTERNATIONAL RESIDENTIAL CODE.
MINIMAM 24* LAP SPLICE LENGTH.

1. LOCATE REBAR IN CENTER OF FOUNDATION WALL.

8. WHERE 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

120 MPH

6'-0" O.C.

STRUCTURAL NOTES:

WALL HEIGHT (FEET)

2 AND BELOW

1 AND GREATER

WIND ZONE

SPACING

EMBEDMENT

INGROUTED

UNGROUTED

GROUT SOLID

GROUT SOLID W/ "4 REBAR # 36" O.C.

GROUT SOLID w/ *4 REBAR # 24° O.C.

BACKFILL OF CLEAN 51 / 61 WASHED STONE IS ALLOWABLE.

FOUNDATION NOT COMMON TO HOUSE.

MASONRY WALL TYPE

4" BRICK AND 4" 4" BRICK AND 8"

ENGINEERED DESIGN BASED ON SITE CONDITIONS

UNGROUTED

UNGROUTED

GROUT SOLID

GROUT SOLID w/ 4 REBAR # 36" O.C.

GROUT SOLID u/ "4 REBAR # 24" O.C.

130 MPH

4'-0" O.C.

15" INTO MASONRY 1" INTO CONCRETE

12" CM1

UNGROUTED

UNGROUTED

GROUT SOLID w/ 4

REBAR # 64" OC. GROUT SOLID u/ 44 REBAR # 64" O.C.

GROUT SOLID W/ 14

REBAR # 64" OC.

DATE: NOVEMBER 14, 2018 SCALE: NTS DRAWN BY: IST

ENGINEERED BY: JES

20

D-1 FOUNDATION DETAILS

STEMWALL DETAILS

DETAIL I WALL FRAMING AND TRITO:-SILL PLATE PER PLAY TRID. BOTTOM PLATE SECURED BY M' DIA-BOLIS OR THREADED ROOS, WITHN IT' OF

OPTIONAL DETAIL UALL FRAMING AND TRID: SILL PLATE PER PLAN

OR UELDED USE FABRIC 4" COMPACTED

TYPICAL STEM WALL FND. W/ BRICK DETAIL

FINSHED GRADE 4" COMPACTED UELL-DRANNG SOIL OR UASHED STORE -LADOER WIRE EVERY COMPACTED FILL OR A' CHI PLOCK

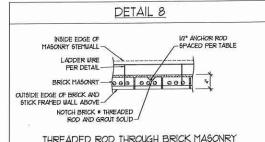
TYPICAL STEM WALL FND. DETAIL W/ CURB @ GARAGE DETAIL 4

OPTIONAL DETAIL 3 2 x 6 WALL FRAMING AND TRIDE SILL FLATE FER FLAN 2 x 6 MN, TRTD, BOTTOM PLATE SECURED BY-IV DIA BOUTS OR THREADED ROD WITHIN II! OF EACH CORNER (MINIMAL OF TWO ANCHORS PER PLATE SECTION, SEE CHART FOR 4" CONCRETE SLAS-6 MIL VAPOR BARKER 4" COMPACTED WELL-DRANING SOIL OR WASHED STONE OTHER COURSE e' CHI BLOCK 6' UDE BY 6' DEEP CONT, CONC, FTG. RENF. TO BE GROUTED SOLID.

OPTIONAL STEM WALL FND. DETAIL W/ CURB @ GARAGE

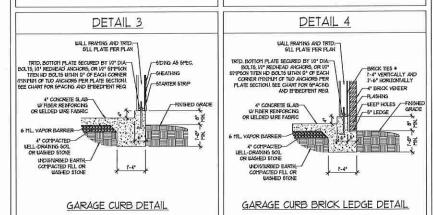
BULL FRAMING AND TRID.— BULL PLATE FER PLAN TRID. BOTTOM FLATE SECURED BY M* DIA-BOLTS OR THREADED ROD WITHIN B* OF EACH CORRER (TIMPLM OF TWO MICHORS PER PLATE SECTION, BEE CHART FOR SPACING AND BYBEDMENT REQ. 4' BRICK VENEER 6 ML VAPOR 5€ UELL-DRANING SO'L OR WASHED STONE 12' CHI BLOCK -70' UDE BY 6' DEEP CONT. CONG. FTG. RENF. TO BE GROUTED SOLID.

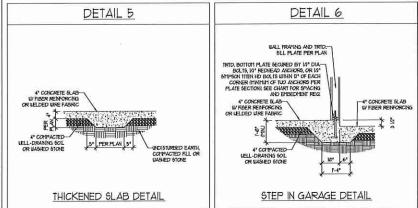
TYPICAL STEM WALL FND. DETAIL W/ BRICK AND CURB @ GARAGE

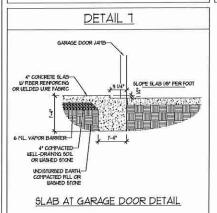


MONOLITHIC SLAB DETAILS DETAIL I DETAIL 2 WALL FRAMING AND TRID. TRTD, BOTTOH PLATE SECURED BY IN DIA-BOLTS, IN REDHEAD ANCHORS, OR IN STIPSON SIDNG AS SPEC. TRID, BOTTOM PLATE SECURED BY M' DIA-BRICK TES # I'-4" VERTICALLY AND 2'-6" HORIZONTALLY TITEN HD BOLTS WITHIN IT OF EACH CORNER (MINIMIT OF TWO MICHORS) FER PLATE SECTION. SEE CHART FOR SPACING AND BYBED TENT REQ. -TLASHING 4" CONCRETE SLAB-UV FIDER REINFORCING OR UELDED UIRE FABRIC WEEP HOLES 5' LEDGE ML VAPOR BARRIER 4" COMPACTED— SELL-DRANNS SOL OR WASHED STONE 4" COMPACTED— WELL-DRAINING SOIL OR WASHED STONE

BRICK VENEER DETAIL







TYPICAL SLAB DETAIL

THREADED ROD THROUGH BRICK MASONRY

FER PLANE EXCIDITE DE COURT FOR OFFICIAL L'ERICK 4' COLOR AND PREVIOUS REQUIRE ROLL 4' COLOR AND PREVIOUS ROLL WHERE REMOVED. 6' HIL VAPOR BANNER 4' COPPACITE PLANE 6' HIL VAPOR BANNER 6' COPPACITE PLANE FOR REMOVED FLOR COPPACITE PLANE 107 IND COURSES OF SIGN IND STREET PLANE FOR COPPACITE PLANE IND ROLL OF THE COLOR SIGN FOR THE PLANE IND ROLL OF THE COLOR SIGN FOR THE PLANE IND ROLL OF THE COLOR SIGN FOR THE PLANE IND ROLL OF THE COLOR SIGN FOR THE PLANE IND ROLL OF THE PLANE FOR COPICIOL PRICK LATERIABLE FOR COPICIOL PRICK LATERI	FER FLAIR SECTIONI SEC CURRI FOR SPACING AND DESCRIPTING SPACING AND DESCRIPTION OF THE PROPERTY OF THE PROPER
TYPICAL STEM WALL DETAIL (W/ OPTIONAL WATERTABLE)	OPTIONAL STEM WALL DETAIL
DETAIL 2	DETAIL 3
WALL FRANKS AND INID- SIL FLAIE FERFLAY BELS OF THEASE SCREED BY 10" DIA BELS OF THE TAILE SCREED BY 10" DIA FERFLAIE BY 10" DIA FERFLAIE SCREED BY 10" DIA FERFLAIE BY 10" DIA FER	EULL RAMNS AD TRID. SUL PLATE FER PLAY IRTID. BOTTOM PLATE SECRED BY 10" DAM— BOL 15 OR THER BODDE NOOS, WITHIN 10" OF BICAL ORDER RINNING THE DAM SACROS FER PLATE SECTION SEC CARRY TOR BY ALE SECTION SEC CARRY TOR BY EVER SECTION SECTION A" CONCRETE SLAB— W FERR NENFORMS OR LLEDO WEE FLARS. ONLY ONE DUE FLARS.

GENERAL WALL BRACING NOTES:

- L. WALL BRACING DESKNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC).
 TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.

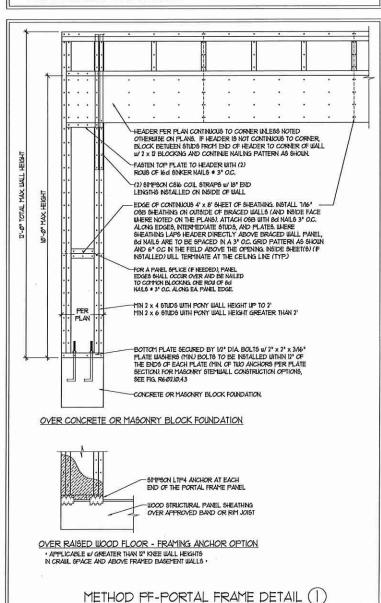
 2. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.

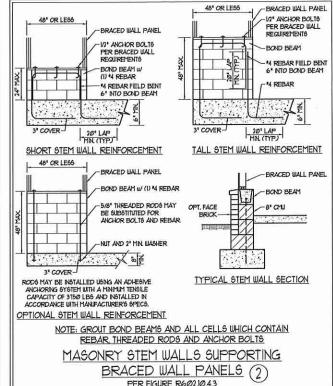
 3. SEE STRICKTURAL SHEETS FOR BRACED WALL LOCATIONS, DYNESSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL
 LINE KEY WITH WALL DESKEN SUMMARY OF REGUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES
- 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION RE00/103 UNLESS NOTED
- OTHERUISE.

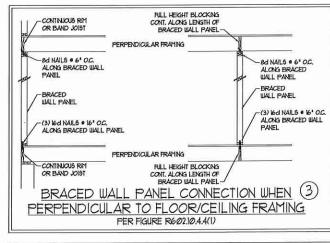
 ALL EXTERIOR AND INTERIOR WALLS TO HAVE I/I' GYPSUM INSTALLED, WIEN NOT USING METHOD 'GB', GYPSUM TO BE FASTENED FER TABLE RISS 35. METHOD GB TO BE FASTENED FER TABLE RISS 35. METHOD GB TO BE FASTENED FER TABLE RISS 35. METHOD. TWO 'OSB SHEATHING INDOOR STRETCHEND, PANELS WALL BRACKE METHOD. TWO 'OSB SHEATHING IS TO BE INSTALLED ON ALL EXTENCIPE WILLS ATTACHED A GO CONTON NAILS OR BD (I' I'' LONG X SID') DIAYETER) NAILS SPACED 6' OC. ALONG PANEL EDGES AND IZ' OC. IN THE FIELD (UND.)
- DIAPETER NAILS SPACED 6" OC. ALCNS PANEL EDGES AND 1" OC. IN THE FIELD (UND.).

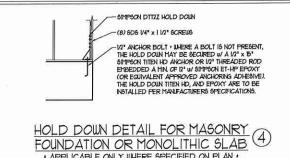
 1. GB RETERS TO THE "STYPHOT BOARD" WILL BRACKIN RETHOD. IN" (MIN) STYPHI WILL BOARD 15 TO BE INSTALLED CN
 BOTH SIDES OF THE BRACED WALL FASTENED WITH 11/4" SCREWS OR 15/8" NAILS SPACED 1" OC. ALCNS PANEL EDGES
 INCLIDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UND.). VERRY ALL FASTENER CRITICAS FOR IN" AND
 58" GTYPHIM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE RE033. FOR EXTERIOR GB TO BE INSTALLED VERTICALLY.

 8. REQUIRED BRACED WALL INSTALL FASTENED AND SIDE OF THE CIRCUMSCRIBED RECTAKLE ARE INTERPOLATED PER TABLE
 REOS. 16/3 NETHOD CS-USP CONTRIBUTES 119 ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 115 ACTUAL LENGTH, AND
- METHOD FF CONTRIBUTES 15 TIMES ITS ACTUAL LENGTH.







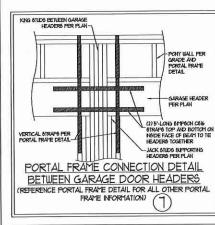


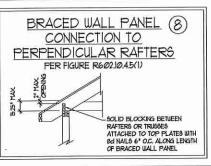
APPLICABLE ONLY WHERE SPECIFIED ON PLAN

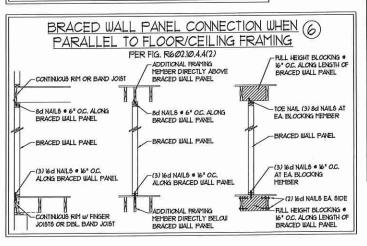
TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING (5) PER FIGURE R602.103(5) MN 24" WOOD STRUCTURAL NEL AN 800 LB HOLD DOWN DEVICE MAY BE NATALLED IN ORIENTATION OF STUD MAY 16d NAIL (3 1/2" x Ø.131") -GYPSUM WALLBOARD AS REQUIRED AND INSTALLED IN ACCORDIANCE WITH CHAPTER T (TYP) OPTIONAL NON-STRUCTURAL - CONTINUOUS WOOD STRUCTURA PANEL BRACED WALL LINE
SEE TABLE R6023(I)
FOR FAATDING FILLER PANEL (a) OUTSIDE CORNER DETAIL (5a) ORIENTATION OF STUD MAY VARY, SEE FIGURE R6/023(2) 16d NAIL (3 1/2" x ØJ31") -CONTINUOUS WOOD STRUCTURAL PANEL BRACED WALL LINE SEE TAN E REGULATION GYPSUM WALLBOARD AS REQUIRED AND INSTALLED -MIN 24" WOOD STRUCTURAL PANEL IN ACCORDANCE WITH CORNER RETURN. AN 800 LB HOLD DOWN DEVICE MAY BE INSTALLED CHAPTER 1 (TYP) IN LIEU OF CORNER RETURN (b) INSIDE CORNER DETAIL (5b) GYPSUM WALLBOARD AS REQUIRED - SEE TABLE R6023(I) FOR FASTENING AND INSTALLED IN ACCORDANCE WITH CHAPTER 1 (TYP) 16d NAIL (3 1/2" x Ø.131") (2 ROUS • 24" O.C.--MIN 24" WOOD STRUCTURAL SHEATHING PER FLAN PANEL CORNER RETURN. AN 800 LB HOLD DOWN DEVICE MAY BE INSTALLED IN LIEU OF CORNER RETURN FASTENERS ON EACH STUD (5C) AT EACH PANEL EDGE

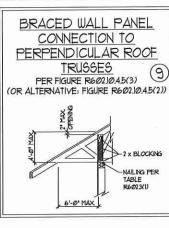
(c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL

STELETURAL INFORMATION OR ALTERNATE CONFIGURATIONS)







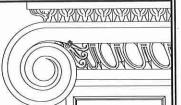


SCALE: 1/4" - 1'0" DRAWN BY: IST ENGINEERED BY: JST

> BRACED WALL NOTES AND DETAILS AND PF DETAIL

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> W

SPEED DESIGN WIND S S AND DETAILS MPH ULTIMATE I BRACING NOTES MPH - 130 | WALL F

DATE: NOVEMBER 14, 2018

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D-2

CAD Drawings) Details and Notes) Standard Notes) Standard Structural Notes 10-18 day 11/14/2018 12:53:43 FM, Whitney Faylines: J.S. Thompson Engineering to

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CAVILLEYERS, OFFSET LOAD BEARNS WALLS, PIERS, GIRDER SYSTEM AND FOOTINS. ENSINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF, ENSINEER'S SEAL DOES NOT APPLY TO INJUST OR FLOOR/ROOF TRUSS. LAYOUT DESIGN 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 ENSINEER 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 NORC, 2018 EDITION (R3014 R3017)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	ø	L/140 (L/360 w/ BRITTLE FINISHES
ATTIC WITHOUT STORAGE	ю	10	L/36Ø
DECKS	40	lø	L/360
EXTERIOR BALCONIES	40	Ø	L/36Ø
FIRE ESCAPES	40	Ø	L/360
HANDRAIL SIGUARDRAILS	200 LB OR 50 (FLF)	Ø	L/360
PASSENGER VEHICLE GARAGE	50	lø	L/360 .
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/36Ø
SLEEPING ROOMS	3Ø	10	L/36Ø
STAIRS	40	Ø	L/36Ø
WND LOAD	(BASED ON TABLE R3Ø12(4) WIND ZONE AND EXPOSURE)		
GROUND SNOW LOAD: Pa	20 (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH IZ PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH IS PSF DEAD LOAD
- FOR 115 AND 120 MPH WIND ZONES FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R40316 OF THE NORC, 2016 EDITION. FOR 130 MPH, 140 1PH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE 15 TO COMPLY WITH SECTION 4504 OF THE NORG, 2015 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

- L FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING
- 7. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING BINYELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED, FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSIVE WIPFORM SHOPPORT OF THE SLAB, AND DOKE OFFICE THE HERE APPROVED, THE TILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IN NOT RECORDED HERE A CONCRETE SLAB IS NOT INCLINED UNESTEED HERE A CONCRETE SLAB IS NOT INCLINED. HOWER SOILS CLASSIFICATION SYSTEM IN ACCORDING TO THE WITED SOIL CLASSIFICATION SYSTEM IN ACCORDING WITH TABLE RAPS) OF THE NORC, 2019 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURN'S CONCRETE WEN BOTTOM OF CONCRETE \$LAB IS AT OR BELOW WATER TABLE. F 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 R4022 OF THE NORC. 2018 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. UELDED LINE FABRIC TO DE ASTM ABS, MANTAN A MINITAN CONCRETE COVER AROUND REINFORCINS STEEL OF 3" IN FOOTNAS AND TUY" IN SLABS, FOR POURED CONCRETE UALLS, CONCRETE COVER FOR REINFORCINS STEEL MEASURED FROM THE INSIDE FACE OF THE UIALL SHALL WHOT DE LEGS THAN 34". CONCRETE COVER FOR REINFORCINS STEEL MEASURED FROM THE OUTSIDE FACE OF THE UIALL SHALL HOT DE LESS THAN 10" FOR S BARS OR SHALLER, AND NOT LESS THAN 2" FOR SE BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/THS 402. MORTAR SHALL CONFORM
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST PREDISION FOR UNFILLED HOLLOW CONCRETE HAZONRY UNTO AND TENTINES THEIR LEAST PREDISION FOR SOLID OR SOLID FILED PIERS, FRES HAY BE FILLED SOLID WINT CONCRETE OR TITTE IN OS HORTIAR PIERS AND WALLS SHALL BE CAPPED WITH 8' OF SOLID HAZONRY.
- 1. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING, EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NORC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NOMA TR68-A OR ACE 530/ASCE 5/MS 402. MASONRY FOUNDATION WALLS ACT 39, ACT 331, NOTAL TROBER AND ACE 593/INSEQ 51/TIS 1421. TRACKINET FOUNDATION WALLS ARE TO DE RENFORCED FER TABLE RIGOLIVI), RIGOLIVI), RIGOLIVI), RIGOLIVI OR RIGOLIVI OF THE NORC, 2019 EDITION, CONCRETE FOUNDATION WALLS ARE TO BE RENFORCED FER TABLE RIGOLIVI OF THE NORC, 2019 EDITION, 6TEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 18" OC. WEINE GRADE FERTITIS (MOD.)

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FRAMING NOTES

- L ALL FRAMMS LIMBER SHALL BE 79 SFF MINIMUM (Fb = 815 P6), Fy = 315 P6), E = 16,000000 P6)) UNLESS NOTED OTHERUISE (UNO). ALL TREATED LIMBER SHALL BE 79 SYP MINIMUM (Fb = 915 P6), Fy =115 P6), E = 16,000000 P6)) UNLE99 NOTED OTHERUISE (UNO).
- 2. LAMNATED VENEER LIMBER (LVL) SHALL HAVE THE FOLLOWING MINIMM PROPERTIES: Ho +2600 PSI, FV + 265 PSI, E + 1900000 PSI. LAMNATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMM PROPERTIES: Ho = 2375 PSI, FV = 350 PSI, E = 5500000 PSI. PARALLEL STRAYD LIMBER (PEL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES. FG = 3500 PSI, E +1800000 PSI.
 PARALLEL STRAYD LIMBER (PSI,) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES. FG = 2900 PSI, E = 20000000 SI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

W AND WT SHAPES: CHANNELS AND ANGLES: ASTM A992 ASTM A36

PLATES AND BARS. ASTM A36

HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B ASTM A53, GRADE B, TYPE E OR 9

STEEL BEAYS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARNS LENGTH OF 3 IV. AND FULL FLANGE WIDTH (INFO). PROVIDE SOLID BEARNS FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS

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

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* O.C., OR (2) ROUS OF I/3* DIA*TETR BOLTS & 16" O.C. IF I/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED U/ (2) ROUS OF 9/16" 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 R662.7(1) AND R662.7(2) OF THE NORC, 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (I) KING STUD EACH END (UND), 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 BEARNS PONT (IND). INSTALL KING STUDS PER SECTION R602.15 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 1. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) 5TUDS MINIMUM OR THE NUMBER OF ALL BEAYS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (7) SILDS AND THIS WATER OR HE WAITER OF THE AND THE A WOTHER ARE TO EACH BEAR EQUAL LENGTHS (LNO).
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING IZ DIAMETER BOLTS (ASTM ASOT) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMM), 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 SPECFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 10. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING CRITERIA THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION RE@27.00
- IL PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR USSES OR I-JOISTS PER MANUFACTURER'S SPECIFICATIONS, INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- 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 THE PRINT AT SIDES FOR BRICK SUPPORT (UNO). FOR ALL HEADERS S'-S' AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/6" STEEL ANGLE
 TO HEADER WITH UT LAG SCREWS AT 1" OC. STAGGERED FOR BRICK SUPPORT, FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x FOR STEEL ANGLE TO (2) 2 x W BLOCKING INSTALLED W (4) 7d NAILS EA PLY BETWEEN WALL STUDS WITH (2) ROUS OF 1/2* LAG SCREWS AT 12* O.S. STAGGERED AND IN ACCORDANCE WITH SECTION R103821 OF THE NORC, 20/8 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'-0'. FASTEN MEMBERS WITH THREE ROUS OF I'LD NAILS AT 16" O.C. FRAME DORN'ER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS
- M. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES, STICK
- ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 1000 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (INO.) POSTS MAY BE RECURED USING ONE SIMPSON HE OR LIBID UPLET CONNECTOR FASTIBLED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST, ONE MY SECTION OF SIMPSON CSIG COIL STRAFFING WITH (8) 84 HDG NAILS AT EACH END MAY BE USED IN LIBU OF EACH TUIST. STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.



SPEED WIND DESIGN WI URAL NOTE - 130 MPH ULTIMATE DESIC STANDARD STRUCTURAL MPH 20

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

DRAWN BY: IES

ENGINEERED BY: JST



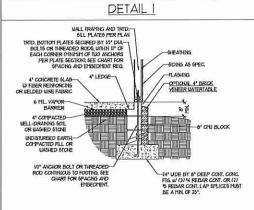
S-0 STRUCTURAL NOTES

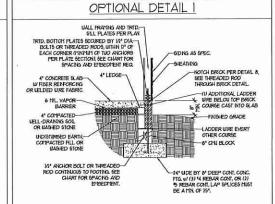
1 1-4"

SLAB AT GARAGE DOOR DETAIL

4' COMPACTED

STEMWALL DETAILS

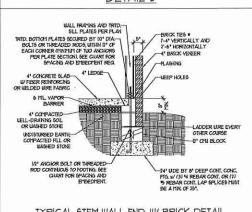




OPTIONAL STEM WALL DETAIL

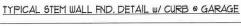
(w/ OPTIONAL WATERTABLE) DETAIL 2

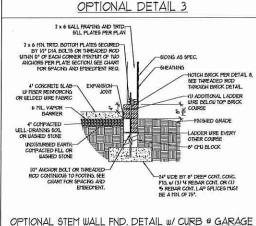
TYPICAL STEM WALL DETAIL

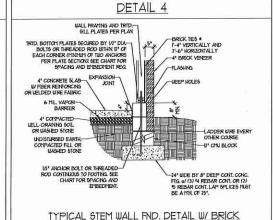


DETAIL 3 WALL FRAMING AND TRID: SLL PLATES FER PLAN TRID, BOTTOM FLATES SECURED BY IN' DIA-BOLTS OR THREADED RODS, WITHIN II' OF EACH CORNER MINITH OF TWO ANCHORS FER FLATE SECTIONS SEE CHART FOR -61DING AS 6FEC. 4" CONCRETE SLAB-4" COMPACTED-UELL-DRANNG SOIL OR WASHED STONE LADDER WIRE EVERY OTHER COURSE e, CAT BLOCK VI* ANCHOR BOLT OR THREADED -14" UDE BY 8" DEEP CONT. CONG. FIG. ±/ (3) "4" REBAR CONT. OR (7) "5" REBAR CONT. LAP SPLICES HUST BE A MN. OF 25".

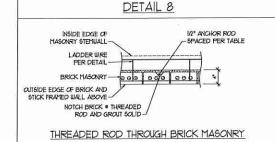
TYPICAL STEM WALL FND. W/ BRICK DETAIL







AND CURB @ GARAGE



MASONRY STEMWALL SPECIFICATIONS MASONRY WALL TYPE WALL HEIGHT 4" BRICK AND 4" 4" BRICK AND 8" 8" CM 2 AND BELOW UNGROUTED GROUT SOLID INGROUTED INGROUTED GROUT SOLID UNGROUTED UNGROUTED UNGROUTED GROUT SOLID w/ 14 REBAR # 48" O.C. GROUT SOLID II/ M GROUT SOLID GROUT SOLID GROUT SOLID u/ 4 GROUT SOLID u/ 4 REBAR # 36" O.C. REBAR # 64" O.C. GROUT SOLID w/ 14 NOT APPLICABLE REBAR . 36" O.C. GROUT SOLID u/ *4 REBAR # 24* O.C. GROUT SOLID w/ 44 REBAR # 64* O.C. NOT APPLICABLE AND GREATER ENGINEERED DESIGN BASED ON SITE CONDITIONS

STRUCTURAL NOTES:

- WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
 TIE MULTIPLE WITHES TOGETHER WITH LADDER WIFE AT 16" OC, VERTICALLY.
 CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
- BACKFILL OF CLEAN 151 / 161 WASHED STONE IS ALLOWABLE.

- 4. BACKFILL OF CLEAN \$51 / \$51 WASHED STONE IS ALLOWARLE.
 5. BACKFILL OF WELL DRAINED OR \$AND GRAYEL MIXTURE SOILS (45 PSFAFT BELOW GRADE) CLASSFIED AS GROUP! ACCORDING TO INFIED SOILS CLASSFICATION SYSTEM IN ACCORDING WITH TABLE RYES). OF THE 2018 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWARLE.
 6. PREP \$3.04 PER REGGED, AND 582622 BASE OF THE 2018 INTERNATIONAL RESIDENTIAL CODE. MINIMAM 24" LAP SPLICE LENGTH.
 8. WHERE REGUIRED, FILL BLOCK SOLID WITH TYPE "5" MORTAR OR 3000 PSI GROUT, USE OF "LOW LET GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5" AND GES ATES.

ANCH	OR SPACING AND EMBEI	OMENT - STEM WALL
WIND ZONE	140 MPH	15Ø MPH
5PACING	I'-9" O.C w/ DOUBLE SILL PLATE w/ 2" x 7" x 1/8" WASHERS	I'-6' OC w/ DOUBLE SILL PLATE w/ 2" x 2" x 1/8' WASHERS
EMBEDMENT	RODS CONTINUOUS FROM FOOTING UP THROUGH SILL PLATE W/ 1" MIN CONCRETE EMBEDMENT	RODS CONTINUOUS FROM FOOTING UP THROUGH SILL PLATE W 1" MIN CONCRETE EMBEDMENT

ANCHO	OR SPACING AND EMBED	MENT - MONO SLAB
WIND ZONE	140 MPH	150 MPH
5PACING	6'-0" O.C. u/ DBL. SILL PLATE OR 1'-9" O.C. u/ SINGLE SILL PLATE u/ 2" x 2" x 1/8" WASHERS	6'-0' O.C. w/ DBL. SILL PLATE OR I'-6' O.C w/ SINGLE SILL PLATE w/ 2" x 2' x 1/8" WASHERS
EMBEDMENT	יו	7"

DATE: NOVEMBER 14, 2015 SCALE: NTS AWN BY: JST GINEERED BY: 1ES

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D-1 FOUNDATION DETAILS



O 27605 3 O HOUSE SUITE 104 789-9919 ICENSE N SOS WAD PHON

YAYAKKIKAKE

WIND E DESIGN Y MPH ULTIMATE I FOUNDATION DI 150 MPH.

na details 10-18 dwg. 11/14/2018 1.09.24 PM. Whitney Faulkiner. J.S. Thompson Engineering In

WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 AND CHAPTER 45 OF THE 2018 NC RESIDENTIAL BUILDING
CODE (NCRC), TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.
 SEE THIS SHEET FOR GENERAL DETAILS, REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.

3. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, AND ANY SPECIAL NOTES OR REQUIREMENTS.

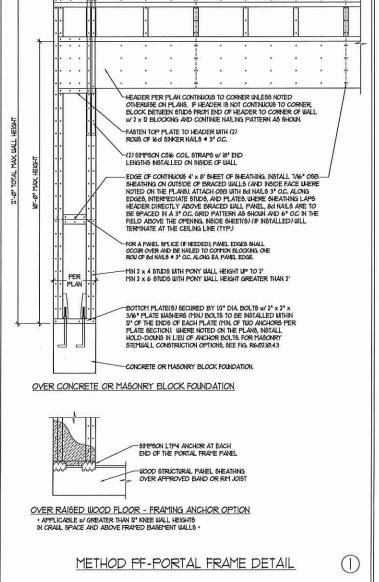
SPECIAL NOTES ON NECUMENTENTS.

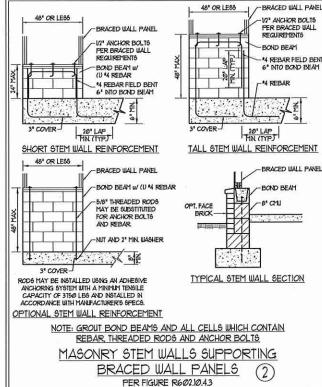
A ALL EXTEROR WALLS ARE TO BE CHEATHED WITH TIME OF WITH BLOCKING AT ALL SHEATHING JOINTS AND 8d NAILS
AT 3' OC. ALONG ETGES AND 6' OC. IN THE FIELD INLESS NOTED OTHERWISE.

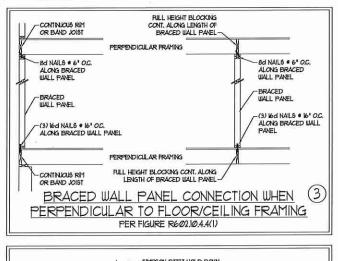
5. SECINE ALL EXTEROR WALL SHEATHING PAYELS TO DOUBLE TOP PLATES, BAND JOISTS, AND GIRDERS WITH (2) ROUS
OF 8d NAILS STAGGERED AT 3' OC. PAYELS SHALL EXTEND IN BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP

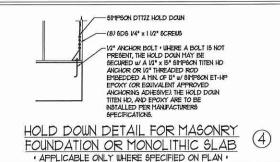
GIRDERS AND SILL PLATES THEIR FULL DEPTH.

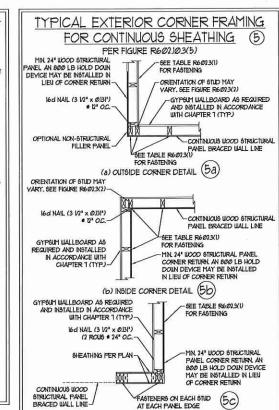
6. ALL EXTERIOR WALLS TO BE SHEATHED ON INSIDE FACE WITH I/2" GYPSUM BOARD FER TABLE RT0/235 (UNO).





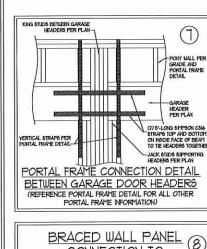


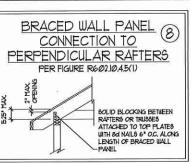


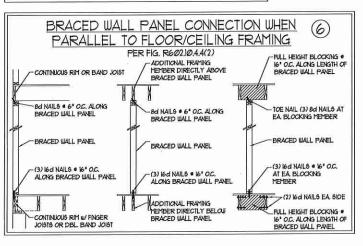


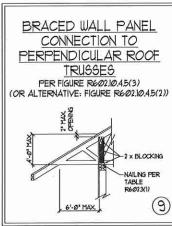
(c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL

STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)







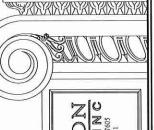


DATE, NOVEMBER 14, 2018 SCALE: 1/4" * 1'0" DRAWN BY: IST

> BRACED WALL NOTES AND DETAILS AND PF DETAIL

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> SPEED DESIGN WIND S S AND DETAILS ULTIMATE D MPH ULTI BRACING) MPH. 140

ENGINEERED BY: JST

D-2

GENERAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMS, CANTILEYERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF, ENGINEER'S SEAL DOES NOT APPLY TO 1-JOIST OR FLOOR/ROOF TRUSS
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION ORK. 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, 2018 EDITION (R3014 R3017)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	L/140 (L/360 W/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	lø e	10	L/360
DECKS	40	lo o	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	5∅	10	L/36Ø
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/36Ø
SLEEPING ROOMS	3Ø	la G	L/360
STAIRS	40	Ю	L/360
WIND LOAD	(BASED ON TABLE R3/912(4) WIND ZONE AND EXPOSURE)		
GROUND SHOW LOAD: Pg	20 (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/4800
- FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R40316 OF THE NORC, 2018 EDITION. FOR 150 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS 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, 2016 EDITION.

FOOTING AND FOUNDATION NOTES

- L FOUNDATION DESIGN BASED ON A MINIMUM ALLOUIABLE BEARING CAPACITY OF 2000 PSF, CONTACT GEOTECHNICAL ENGINEER IF BEARING
- 7. FOR ALL CONCRETE SLABÓ AND FOOTINGÓ, THE AREA WITHIN THE PERIMETER OF THE BUILDING BIVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REPOVED. FILL MATERIAL, SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSINE WIFFORM SHOPPORT OF THE BLAB, AND DORGETH WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED AN FOR CLEAN SAND OR GRAVEL AND THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL HALL BE PLACED. A BASE CONSIST BY THE THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL HAVING SOILS CLASSIFIED AS GROUP I, ACCORDING TO THE WITED SOIL CLASSIFICAN SYSTEM IN ACCORDING TO THE WITED SOIL CLASSIFICAN.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE 6LAB 16 AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" - I" DEEP CONTROL JOINTS ARE TO BE SAILED WITHIN 4 TO 12 HOURS OF CONCRETE FINIS
- 4. CONCRETE SHALL CONFORM TO SECTION RADIZ OF THE NORC, 2016 EDITION. CONCRETE REINFORCING STEEL OF BE ASTM ASIS GRADE 60. WELDED WIRE FABRIC TO BE ASTM ASIS, MAINTAIN A MINIMAL CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND I IV" IN SLABS, FOR POWERD CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL PERSURED FROM THE INSIDE FACE OF THE WALL SHALL ONT BE LESS THAN IV. CONCRETE COVER FOR REINFORCING STEEL PERSURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN I IV." FOR "5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR "6 BARS OR LARGER.
- MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/THS 402, MORTAR SHALL CONFORM TO ASTM C2TO.
- 6. THE INSUPPORTED HEIGHT OF MASCHRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIPUSION FOR UNILLED HOLLOU CONCRETE HASCHRY WITS AND TISH TIMES THEIR LEAST DIPUSION FOR SOLID OR SOLID FILES PIERS. PIERS HAY DE FILED SOLID WITH CONCRETE OR TYPE IT OR 6 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 ITS RESPECTIVE FOOTING, EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS
- 8. ALL CONCRETE AND MASCARY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION RAW OF THE NORG, 100 EDITION OR IN ACCORDANCE WITH ACI 30, ACI 330, NORM TROS-A OR ACE 500/ASCE 517th 402. HASCARY FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE RAWALLY), RAWALLY), RAWALLY), OR RAWALLY OF THE NORG, 100 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE RAWALLY). RAWALLS OF THE NORG, 100 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE RAWALLS OF THE NORG, 100 EDITION. WALLS AT 16" OC. WHERE GRADE PERMITS (UNO).

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FRAMING NOTES

- L ALL FRAMING LUMBER SHALL BE 12 SFF MINIMUM (Fib = 815 PB), FV = 315 PB), E = 16/00/000 PB) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE 12 SYP MINIMUM (FIb = 915 PSI, FV = 115 PSI, E = 16000000 PSI) LINLESS NOTED OTHERWISE (UNO).
- LAMNATED VENEER LIMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROFERTIES: HIS +2600 PS), FV = 285 PS), E = 1300000 PS).
 LAMNATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROFERTIES: HIS = 2325 PS), FV = 310 PS), E = 550000 PS). PARALLEL STRAND LIMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMM PROPERTIES. Fo . 2500 PSI, E . 18000000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 20000000 PSI INSTALL ALL CONNECTIONS PER 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 5

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

(2) 1/2" DIA x 4" LONG LAG SCREUS A WOOD FRAMING (2) I/2" DIA x 4" WEDGE ANCHORS (2) 1/2" DIA x 4" LONG SIMPSON TITEN HD ANCHORS C. MASONRY (FULLY GROUTED)

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 72) ROUS OF SELF TAPPING SCREUS • IS OF, OR, (2) ROUS OF IN DIAPETER BOLTS • IS OC. OR IN BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED IN (1) ROUS OF 9/16" DIAPETER

- 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 BEARNS HEADERS TO CONFORM TO TABLE REQUIT(I) AND REQUIT(2) OF THE NORC, 2018 EDITION OR BE (2) 2 x 6 WITH (I) JACK AND (I) KINS STUD EACH END (INO), WHICHEVER 19 GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARNG PONT (UNO). INSTALL KING STUDS PER SECTION R6/02.15 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION
- ALL BEAYS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (7) STUDS MINIMM OR THE NUMBER OF
 JACKS OR STUDS NOTED. ALL BEAYS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO
 HAVE I (N° MINIMM BEARNIG (MO). ALL BEAYS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO), BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING I/A" DIAMETER BOLTS (ASTM A3/01) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMIN), 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 SPECFIED ON THE PLANS. ALL DEVIATIONS ARE TO
- ID. BRACED WALL PAYELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2010 EDITION WALL BRACING CRITERIA THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R6/07/0.
- IL PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I-JOISTS PER HANDACTURER'S SPECIFICATIONS, INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- 12. FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MNIMM EMBEDMENT AT BIDES FOR BRICK SUPPORT (UND). FOR ALL HEADERS S'-Ø" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/6" STEEL ANGLE TO HEADER WITH VI" LAG BOREWS AT 12" OC. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANSLE TO (2) 2 x 10 BLOCKING INSTALLED (4) IZ MAILS EA, PLY BETWEEN WALL STUDS WITH (2) ROWS OF VZ" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION RT0382] 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'-0". FASTEN MEMBERS WITH THREE ROUS OF IZO NAILS AT 16" O.C. FRAME DORN'ER 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 RAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).
- 5. 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 HE OR LITED UPLET CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST, ONE IS "SECTION OF SIMPSON COSIS 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.

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SPEED GN WIND (DESIGN ULTIMATE DESIGNO DESIGNO DE STRUCTURAL - 150 MPH U STANDARI MPH 8

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

DRAWN BY: IES

NGINEERED BY: JST



S-0 STRUCTURAL NOTES