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H&H HOMES, INC. CEDAR

DATE: OCTOBER 4, 2019 REV.: FEBRUARY 1, 2020

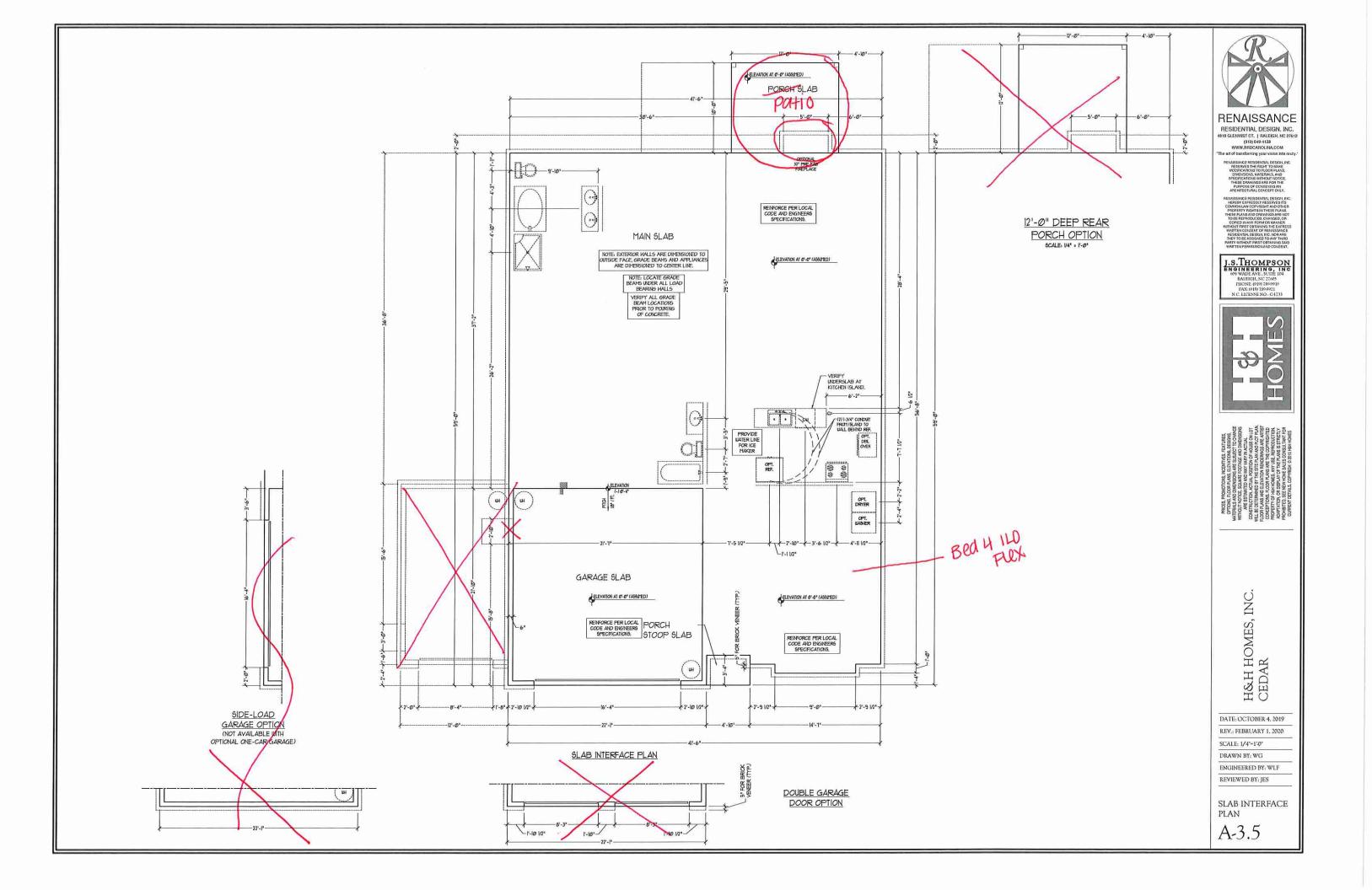
SCALE: AS NOTED DRAWN BY: WG

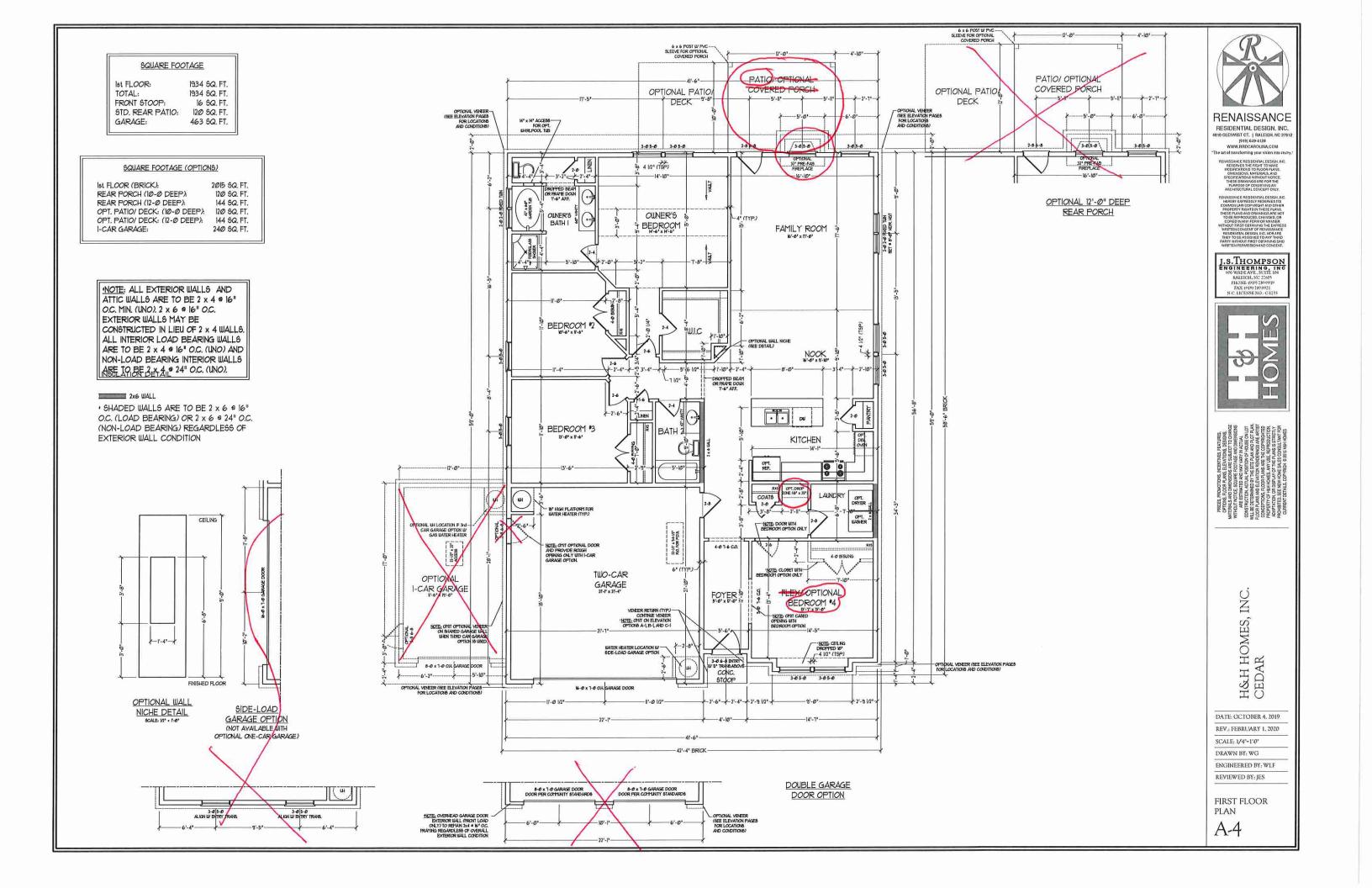
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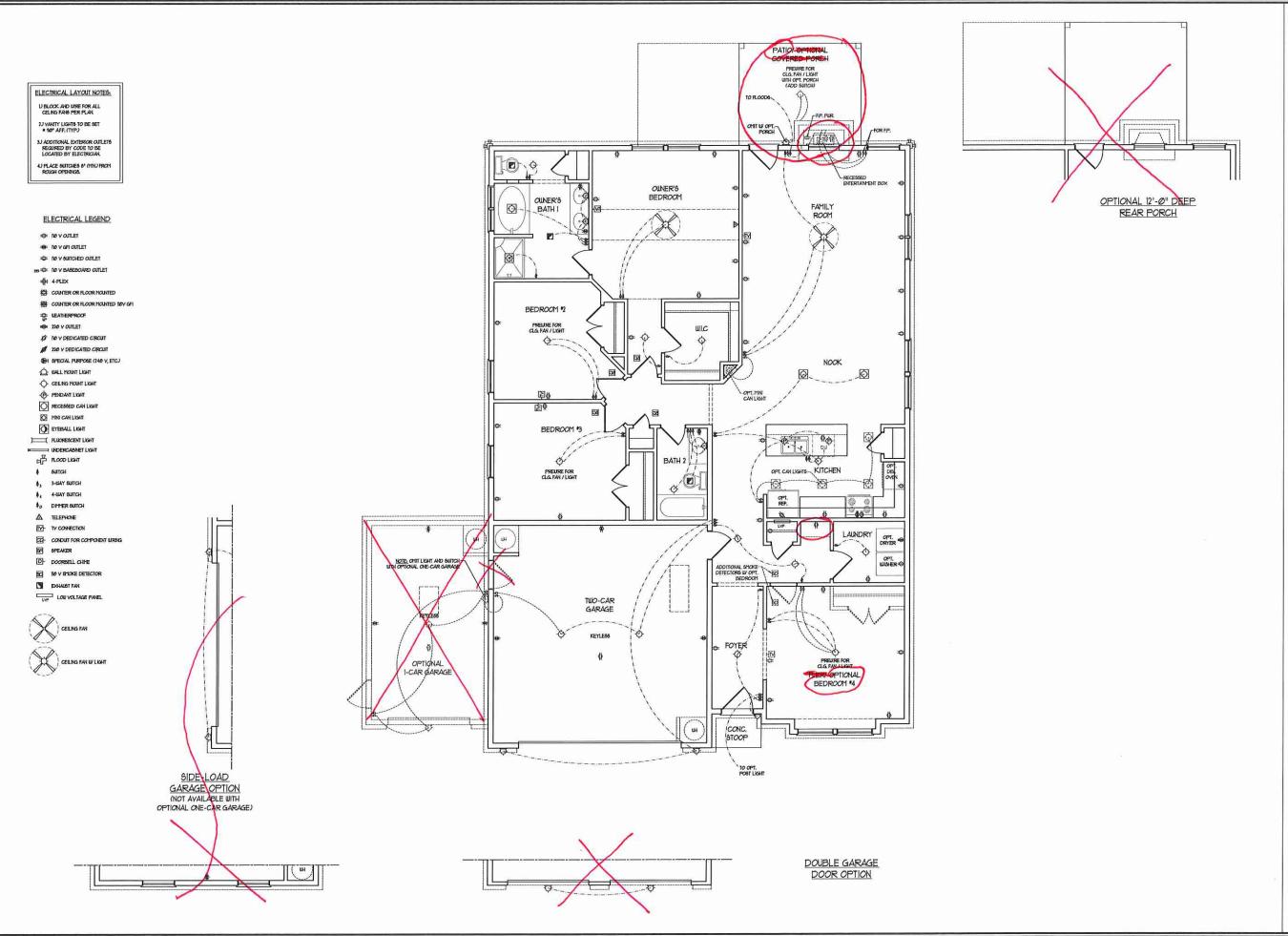
REVIEWED BY: JES

B - ELEVATION OPTIONS

A-2.1









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# J.S.THOMPSON



H&H HOMES, INC. CEDAR

DATE: OCTOBER 4, 2019 REV.: FEBRUARY 1, 2020

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

DRAWN BY: WG

ENGINEERED BY: WLF

REVIEWED BY: JES

FIRST FLOOR ELECTRICAL PLAN

E-1

1-10-

1-9"-

1.10

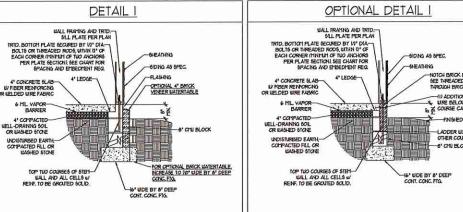
DOOR OPTION

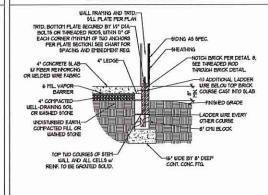
MONO SLAB FOUNDATION PLAN

2 x 4 @ 24" O.C. (UNO).

FILL BETLEEN HEADERS SOULD W KING STUDS. — STRAP HEADERS TOOSTHER W (7) 5" LONG SMIPSON CSIG STRAPS INSTALLED TOP 4 BOTTOM ON THE INSIDE FACE OF THE HEADERS.

### STEMWALL DETAILS





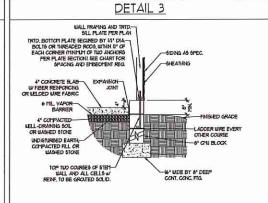
OPTIONAL STEM WALL DETAIL

## DETAIL 2 PRIOK TIES # 1'-4" VERTICALLY AND 1'-6" HORIZONTALLY 4" BRICK VENEER TRTD. BOTTOM FLATE SECURED BY 1/1" DIA-BOLTS OR THREADED RODS, LITHIN 12" OF 4" CONCRETE GLAB-4" COMPACTED— UELL-DRANNG SOIL OR WASHED STONE -D' CHI BLOCK CONT. CONC. FIG.

TYPICAL STEM WALL FND. W/ BRICK DETAIL

TYPICAL STEM WALL DETAIL

(W/ OPTIONAL WATERTABLE)



TYPICAL STEM WALL FND. DETAIL W/ CURB @ GARAGE

OPTIONAL DETAIL 3 2 x 6 WALL FRANKS AND TRID.-SILL PLATE PER PLAN 2 x 6 MN, TRTD. BOTTOM PLATE SECURED BY N' DIA BOLTS OR THREADED ROD WITHIN D' OF EACH CORNER MINIMM OF TWO MICHORS PER PLATE SECTIONS SEE CHART FOR -(I) ADDITIONAL LADDER URE BELOW TOP BRICK COURSE 6 MIL VAPOR BARNER THISHED GRADE -LADDER LINE EVERY OTHER COURSE e CHIBLOCK

OPTIONAL STEM WALL FND. DETAIL W/ CURB @ GARAGE

DETAIL 4 BLL FRAMING AND TRID. P-4" VERTICALLY AND 2"-6" HORIZONTALLY IRID, BOTTOM FLATE SECURED BY IV! DIA-BOLTS OR THREADED ROD WITHIN II! OF EACH CORRER (THRILLIN OF TIO ANCHORS) PER PLATE SECTION, SEE GLART FOR SPACING AND BYSEDYENT REQ. -HLASHING CONCRETE SLAB WEEP HOLES 6 ML VAPOR BARRIER 5€ 4" COMPACTED— ELL-DRAINIG SOIL OR WASHED STONE -LADDER URE EVERY OTHER COURSE TYPICAL STEM WALL FND, DETAIL W/ BRICK

DETAIL 8 INSIDE EDGE OF I/A" ANCHOR ROD LADDER WRE BRICK MASONRY 000 000 000 OUTSIDE EDGE OF BRICK AND STICK FRAMED WALL ABOVE NOTCH BRICK # THREADED ROD AND GROUT SOLID

AND CURB @ GARAGE

THREADED ROD THROUGH BRICK MASONRY

MASONRY STEMWALL SPECIFICATIONS MASONRY WALL TYPE 4" BRICK AND 4" CMJ 4" BRICK AND 8" CMJ 8° CMJ 12" CMU UNGROUTED 2 AND BELOW UNGROUTED GROUT SOLID UNGROUTED GROUT SOLID UNGROUTED UNGROUTED GROUT SOLID W 14 GROUT SOLID w/ 4 GROUT SOLID 4 GROUT SOLID REBAR # 48" OC REBAR # 64" O.C. GROUT SOLID w/ 14 REBAR # 36" O.C. GROUT SOLID w/ \*4 REBAR # 64\* O.C. 5 NOT APPLICABLE GROUT SOLID #/ 4 GROUT SOLID #/ 4 GROUT SOLID W/ 14 NOT APPLICABLE

AND GREATE ENGINEERED DESIGN BASED ON SITE CONDITIONS

### STRUCTURAL NOTES:

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

TIE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16° OC. VERTICALLY,
CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT BYGINEER FOR DESIGN OF GARAGE
FOUNDATION NOT COTYCON TO HOUSE.
BACKFILL OF CLEAN 51 / 16°T WASHED STONE 15 ALLOWABLE.

BACKFILL OF WELL DRANED OR SAND - GRAVEL MIXTURE SOILS (45 PSFAT BELOW GRADE)
CLASSFIED AS GROUP I ACCORDING TO UNFIED SOILS CLASSFICATION SYSTEM IN ACCORDING

CLASSFIED AS GROUP I ACCORDING TO WHIED SOULS CLASSFIED AS GROUP IN ACCORDANCE WITH TABLE RARD. OF THE 1000 NITERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

FREP \$4.AB FER REGAS]. AND ES06.22 BASE OF THE 2018 NITERNATIONAL RESIDENTIAL CODE ARE HANNIM 24' LAP SFLICE LENGTH.

LOCATE REBAR IN CENTER OF FOUNDATION WALL.

WHERE REGUIRED, FILL BLOCK SOLID WITH TYPE 'S' MORTAR OR 3000 PSI GROUT, USE OF 'LOW LIFT GROUNS' METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.

ANCHOR SPACING AND EMBEDMENT			
WIND ZONE	120 MPH	13/0 MPH	
SPACING	6'-0" OC.	4'-0" OC.	
EMBEDMENT	i,	15" INTO MASONRY 1" INTO CONCRETE	



ZO Z7605 0 O 0 5 2 RALE FAX: (9 NO.: CLT S.TH(

RGINEE

606 WADE AVE, SUIT

PHONE (019175027)

SPEED MIND MPH ULTIMATE DESIGN FOUNDATION DETAILS 130 MPH.

DATE: NOVEMBER 14, 2018 DRAWN BY IST GINEFRED BY: IES

D-1 FOUNDATION DETAILS

- L WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2019 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 STRICTURAL SHEETS FOR BRACED WALL LOCATIONS, DIFFENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SUPPLARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREPENDING.

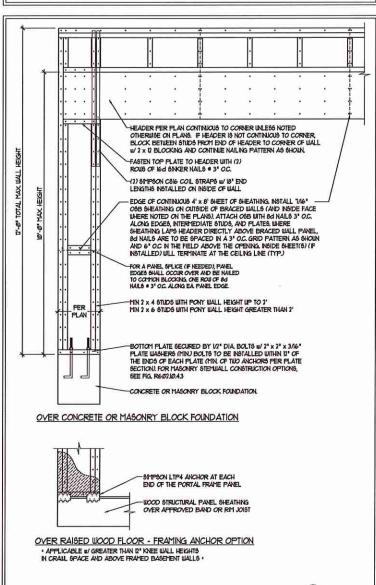
  4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WEY IN ACCORDANCE WITH SECTION RE00/10/3 UNLESS NOTED.

- 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH C5-WEY IN ACCORDANCE WITH SECTION R607.003 (MLESS NOTED CITERWISE.

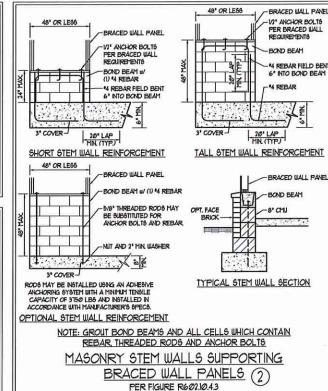
  5. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 10° GYPSHI INSTALLED, WHEN NOT USING METHOD 'G89', GYPSHIM TO BE FASTISHED FOR TABLE R1007.35. METHOD G8 TO BE FASTISHED FOR TABLE R607.001.

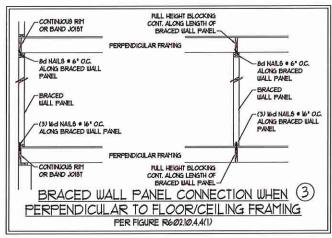
  6. C3-WEY REFIERS TO THE "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" WALL BRACKIS METHOD. TWO" C88 SHEATHING 16 TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED W 6d COTHYON NAILS OR 8d (7) 10° LONG X 1910' DIAPTERS NAILS SPACED OF CO. ALONG PANEL EXCES AND 10° CO. IN THE FIELD (MIND).

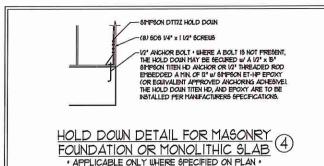
  1. GB REFIERS TO THE "GYPSHIM BOARD" WALL BRACKIS METHOD. 10° (MIND GYPSHIM WALL BOARD 16 TO BE INSTALLED ON BOTH SIDES OF THE BRACCED WALL FASTISHED WITH 110" SCREWS OR 15:8" NAILS SPACED" TO C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERIOR FASTISHER OPTIONS SEE TABLE R1007.35. FOR EXTERIOR FASTISHER OPTIONS SEE TABLE R1007.35. OPTIONS SEE TARLE REGOLD). EXTERIOR OR TO BE NATALLED VERTICALLY.
- REQUIRED BRACED WALL LEVGITH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTAKALE ARE INTERPOLATED FER TABLE RESULTED ACTUAL LEVGITH, PETHOD GB COMMINIBUTES 5 ITS ACTUAL LEVGITH, AND METHOD FF CONTRIBUTES ITS ACTUAL LEVGITH, LEVGITH, PETHOD GB COMMINIBUTES 5 ITS ACTUAL LEVGITH, AND



METHOD PF-PORTAL FRAME DETAIL (1)

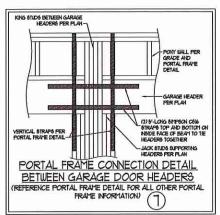


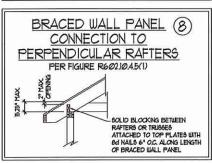


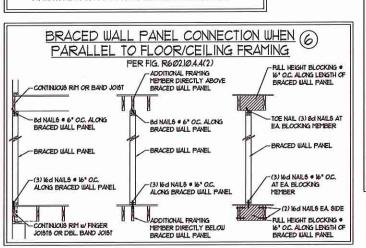


TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING (5) PER FIGURE R602.103(5) - SEE TABLE R6/013(1) FOR FASTENING PANEL AN 800 LB HOLD DOWN DEVICE MAY BE NOTALLED IN LIEU OF CORNER RETUR ORIENTATION OF ATIO MAY 16d NAIL (3 1/2" x Ø131") -GYPSUM WALLBOARD AS REQUIRED AND NATALLED IN ACCORDANCE WITH CHAPTER 1 (TYP) OPTIONAL NON-STRUCTURA - CONTINUOUS WOOD STRUCTURA PANEL BRACED WALL LINE FOR FASTISIS FILLER PANEL FOR FASTENING
(a) OUTSIDE CORNER DETAIL (5a) ORIENTATION OF STUD MAY 16d NAIL (3 1/2" x Ø131") -CONTINUOUS WOOD STRUCTURA PANEL BRACED WALL LINE AFF TARLE R600 3(1) GYPSUM WALLBOARD AS REQUIRED AND INSTALLED -MIN 24" WOOD STRUCTURAL PANEL IN ACCORDANCE WITH CORNER RETURN. AN 800 LB HOLD DOWN DEVICE MAY BE NATALLED (b) INSIDE CORNER DETAIL (5b) GYPSUM WALLBOARD AS REQUIRED AND INSTALLED IN ACCORDANCE - SEE TABLE R6023(1) WITH CHAPTER 1 (TYP) 16d NAIL (3 1/2" x Ø.131") -MIN 24" WOOD STRUCTURAL PANEL CORNER RETURN. AN 800 LB HOLD DOWN DEVICE MAY BE NOTALLED IN LIEU OF CORNER RETURN

CONTINUOUS IIIXXXX







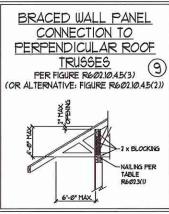
ASTENERS ON EACH STUD (50) AT EACH PANEL EDGE (c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL

STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)

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

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COMPS ERING

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

NGINEERED BY: JST

D-2 BRACED WALL NOTES AND DETAILS AND PF DETAIL

### GENERAL NOTES

- ENGINEER'S SEAL APPLIES CALY TO STRUCTURAL COMPONENTS INCLIDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEYERS, OFFSET LOAD BEARNS WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY ONAL ACCURACY OF ARCHITECTURAL LAYOUT NOLUDING ROOF, ENGINEER'S SEAL DOES NOT APPLY TO 1-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC.), 70/9 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK, NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK, NO 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	10	L/140 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	10	L/36Ø
DECKS	40	10	L/360
EXTERIOR BALCONIES	40	kø	L/36Ø
FIRE ESCAPES	40	10	L/36Ø
HANDRAIL & AGUARDRAIL &	200 LB OR 50 (PLF)	10	L/36Ø
PASSENGER VEHICLE GARAGE	50	la la	L/36Ø
ROOMS OTHER THAN SLEEPING ROOM	40	NO.	L/36Ø
SLEEPING ROOMS	3Ø	Ø	L/36Ø
STAIRS	40	100	L/36Ø
WIND LOAD	(BASED ON TABLE R3Ø12(4) WIND ZONE AND EXPOSURE)		
GROUND ENOW LOAD: Pg	20 (PSF)		

- 1-JOIST SYSTEMS DESIGNED WITH IZ PSF DEAD LOAD AND DEFLECTION (IN) OF L/4800
- FLOOR TRUSS SYSTEMS DESIGNED WITH IS PSF DEAD LOAD
- 4. FOR 115 AND 100 MPH WIND ZONES, FOUNDATION ANCHORAGE 15 TO COMPLY WITH SECTION R4031.6 OF THE NORC, 2018 EDITION. FOR 150 MPH, 140 MPH, AND IBIG MIPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4564 OF THE NORC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NORC, 2018 EDITION.

### FOOTING AND FOUNDATION NOTES

- L FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARNIG CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARNIG CAPACITY IS NOT ACHIEVED.
- 2. FOR ALL CONCRETE SLABS AND FOOTNASS, THE AREA WITHIN THE PERMITTER OF THE BUILDING BINELOPE 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 ASSURE INFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEFINES HALL NOT EXCEED TAY FOR CLEAN SAND OR GRAVEL A 4" THICK BLASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRANED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I, ACCORDING TO THE UNITED SOIL CLASSFICATION SYSTEM IN ACCORDANCE WITH TABLE R4051 OF THE NORG, 2018 EDITION.
- PROPERLY DEMATER EXCAVATION PRIOR TO POURNIS CONCRETE MEDI BOTTOM OF CONCRETE SLAB 16 AT OR BELOW WATER TABLE. F
  APPLICABLE, 344"- If DEEP CONTROL JOINTS ARE TO BE SAMED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE
  BEEN HARROR. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION RAD22 OF THE NORC, 2019 EDITION. CONCRETE RENFORCING STEEL TO BE ASTM A615 GRADE 60, UELDED WIRE FABRIC TO BE ASTM A615. MAINTAIN A MINIMIM CONCRETE COVER AROUND RENFORCING STEEL OF 3° IN FOOTINGS AND 1 1/2° IN SLABS. FOR FOURED CONCRETE WALLS, CONCRETE COVER FOR RENFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL. NOT BE LESS THAN 1 1/2° FOR 5° BARS OR SHALLER AND NOT LESS THAN 2° FOR 5° BARS OR SHALLER AND NOT LESS THAN 2° FOR 5° BARS OR SHALLER AND NOT LESS THAN 2° FOR 5° BARS OR SHALLER AND NOT LESS THAN 2° FOR 5° BARS OR SHALLER AND NOT LESS THAN 2° FOR 5° BARS OR SHALLER AND NOT LESS THAN 2° FOR 5° BARS OR SHALLER AND NOT LESS THAN 2° FOR 5° BARS OR SHALLER AND NOT LESS THAN 2° FOR 5° BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/THS 401. MORTAR SHALL CONFORM TO ASTH C210.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS. PERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR 5 MORTAR PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY
- THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING, EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- 8. ALL CONCRETE AND MASCHRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION RADA OF THE INCRC, 2016 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 530/ASCE 5/THS 402. MASCHRY FOUNDATION WALLS ARE TO DE REINFORCED FER TABLE RADALKI), RADALKI), RADALKI), OR RADALKI OF THE NORC, 2019 EDITION. CONCRETE FORMOATION WALLS ARE TO BE REPROCED FER TABLE REPORTED FOR TABLE REPORTED FOR TABLE REPORTED FOR TABLE FOR THE FORMOATION WALLS TO 2 x 6 FRAMED WALLS AT 16 OC. WHERE GROVE FERTITIS (MIO).

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### FRAMING NOTES

- ALL FRAMING LIMBER SHALL BE 12 SFF MINMIM (Fb = 815 P6), Fv = 315 P6), E = 16,00000 P6)) UNLESS NOTED OTHERUISE (UNO). ALL TREATED LUMBER SHALL BE 12 SYP MINMIM (Fb = 915 P6), Fv = 115 P6), E = 16,00000 P6)) UNLESS NOTED OTHERUISE (UNO).
- LAMNATED VENEER LUMBER (LVL.) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Ho =2600 PSI, Fv = 285 PSI, E = 19000000 PSI. LAMNATED STRAND LUMBER (LGL.) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Ho = 2325 PSI, Fv = 310 PSI, E = 5550000 PSI. PARALLEL STRAND LIMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMIM PROPERTIES, FG + 2500 PSI, E +1800000 PSL PARALLEL STRAND LIMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMIM PROPERTIES, FG + 2900 PSI, E + 2000000 PSI. NSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

A	W AND WT SHAPES:	ASTM A992
B.	CHANNELS AND ANGLES:	ASTM A36
C.	PLATES AND BARS:	ASTM A36
D.	HOLLOW STRUCTURAL SECTIONS:	ASTM A500 GRADE B
E	STEEL PIPE:	ASTM A53, GRADE B, TYPE E OR 5

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A HINPLIM BEARING LENGTH OF 3 1/21 AND FULL FLANGE WIDTH (UNO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION, BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS

A WOOD FRAMING	(2) 1/2" DIA x 4" LONG LAG SCREUS	
B. CONCRETE	(2) 1/2" DIA x 4" WEDGE ANCHORS	
C. MASONRY (FULLY GROUTED)	(2) V2" DIA x 4" LONG SIMPSON TITEN HD ANCHORS	

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAT W (2) ROUS OF SELF TAPPING SCREWS . IS OC. OR (2) ROUS OF I/I DIAPETER BOLTS . IG O.C. IF I/2" BOLTS ARE USED TO FASTEN THE NAILER THE STEEL BEAM SHALL BE FABRICATED W/ (2) ROUS OF 9/16" DIAMETER

- 5. GOLARES 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 BEARN'S HEADERS TO CONFORM TO TABLE RISPORT(I) AND RISPORT(2) OF THE NORC, 2018 EDITION OR BE (?) 2 x 6 WITH (!) JACK AND (!) 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 BEARNS PONT (UNO). INSTALL KINS 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 (2) STUDS MINIMUM OR THE NUMBER OF
  JACKS OR STUDS NOTED. ALL BEAYS OR GIRDER TRUSSES PERFENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO
  HAVE I VI\* MINIMUM BEARING (INO). ALL BEAYS OR GIRDER TRUSSES PERFENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FILLY 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 IO DIAMETER BOLTS (ASTM ASOT) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS
- 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
- BEACED WALL PAYELS 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 RE60210.
- IL PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR 1-JOISTS FER MANUFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT
- TO FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH REST A 6" x 4" x 5/6" STEEL AVGLE WITH 6" MINIMAN EMBEDMENT AT SIDES FOR BRICK SUPPORT (UND). FOR ALL HEADERS S'-S' AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/6" STEEL ANGLE TO HEADER WITH MY LAG SCREUS AT MY OC. STAGGERED FOR BRICK SUPPORT, FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL AVAILE TO (2) 7 x 1/2 BLOCKING INSTALLED W (4) 2d NAILS EA PLY BETWEIN WALL STUDS WITH (2) ROUS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R103821 OF THE NORC, 20/0 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 81-81. FASTEN MEMBERS WITH THREE ROUS OF III MAILS AT 161 OC. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS
- M FOR TRIBARD ROOFS, FRAME DORSER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" OC. BETWEEN ADJACENT ROOF TRIBSES, STICK TRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" OC. AND FLAT 2 x 10 VALLEYS (UNO).
- B. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (INO.) POSTS MAY BE SECURED USING ONE SIMPSON HE OR LIND UPLET CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST, ONE IS SECTION OF SIMPSON COUR COUL STRAMPING WITH (8) BY HOG NAULS AT EACH END MAY BE USED IN LIEU OF EACH TRUST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.



3 3

130 MPH ULTIMATE DESIC STANDARD STRUCTURAL MPH

DATE: NOVEMBER 14, 2018 CALE: 1/4" - 1'0" AWN BY: JES

> S-0 STRUCTURAL NOTES

SPEED WIND DESIGN