



MIDTH: SIDING:

FOUNDATION STRUCTURAL NOTES NC (2018 NCRC): WINd: 115-120 mph - CRANL

(I.) (3)2xIO SYP#2 OR SPF#2 GIRDER, TYPICAL UNC

CONCRETE BLOCK PIER SIZE SHALL BE:

SIZE HOLLOW SOLID

6x16 UP TO 32" UP TO 5-0"

12x16 UP TO 46" UP TO 4"-0"

16x16 UP TO 64" UP TO 12-0" CONCRETE BLOCK PIER SIZE SHALL BESIZE HOLLOWL SOLID:

8 8x16 UP TO 32' UP TO 9-0'
12x16 UP TO 40' UP TO 9-0'
16x16 UP TO 64' UP TO 12'-0'
24x24 UP TO 96'
WITH 30' x 30' x 10' CONCRETE FOOTING, UNO.

(3) WALL FOOTING AS FOLLOWS

DEPTH: 8" - UP TO 2 STORY

10" - 3 STORY

FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO CODE TABLE RAGALJ (I THRU 4) NOTE. AGSIMED SOIL BEARING CAPACITY = 2000 PSF. CONTRACTOR M5T VERIFY SITE CONDITIONS AND CONTACT SOILS BIGINEER IF MARGINAL OR WSTABLE SOILS ARE ENCONTRETS.

(4) 2xIO SPF #2 OR SYP #2 GIRDER

(5) (2) 1.75x9.25 LVL OR LSL GIRDER

(6) (3) 1.75x9.25 LVL OR LSL GIRDER

"
PESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER SOLID BLOCK ALL BEAM BEARNING POINTS NOTED TO HAVE THREE OR MORE STUDS TO FND, TYPICAL.

ADJUST SUBFLOOR THICKNESS OR JOIST SPACING AS REQ'D FOR FLOOR FINISH MATERIALS.

FOUNDATION STRUCTURAL PLAN

SCALE: 1/8"=1'-0"

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS AND STRUCTURAL NOTES

23-1300 (11CF)

PROJECT # Engineers seal applies only to structural components on this document.

Seal does not include construction means, methods, techniques, sequences, procedures or selve precauloins.

Any deviations or discrepancies on plans are to be brought to the immediate attention of Southern Engineers. Failure to do so will void Southern Engineers lability.

Seal is valid for projects permitted one year from date of seal.

Use of these plans constitutes approval of terms & conditions as defined in the customer agreement.

P.A. 27609

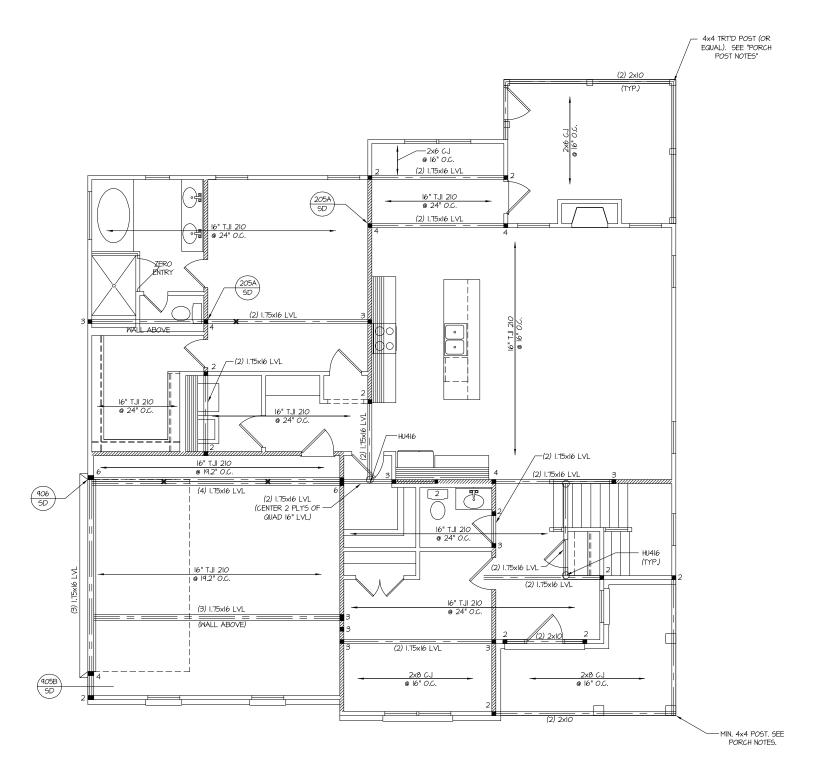
Southern Engineers, P. 3716 Benson Drive, Raleigh, NC 276
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DYNAMIC DESIGN GROUP

S-1

"Lindsey - Garage Left"
240 Hook Drive
Fuquay Varina, NC 27526
Lot 11, Cotton Farms

KEN HARVEY HOMES





HEADER/BEAM & COLUMN NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2xIO (4" WALL) OR (3)2xIO (6" WALL) WITH (I) SUPPORT STUD, UNLESS NOTED
- 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE REQ.2.3(5) OR AS BELOW PER NCDOI COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED 1-9-2020:
- UP TO 3' SPAN: (1) KING STUD OVER 3' UP TO 6' SPAN: (2) KING STUDS OVER 6' UP TO 4' SPAN: (3) KING STUDS
- OVER 9' UP TO 12' SPAN: (4) KING STUDS OVER 12' UP TO 15' SPAN: (5) KING STUDS

FIRST FLOOR STRUCTURAL PLAN

SCALE: 1/8"=1'-0"

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS AND STRUCTURAL NOTES

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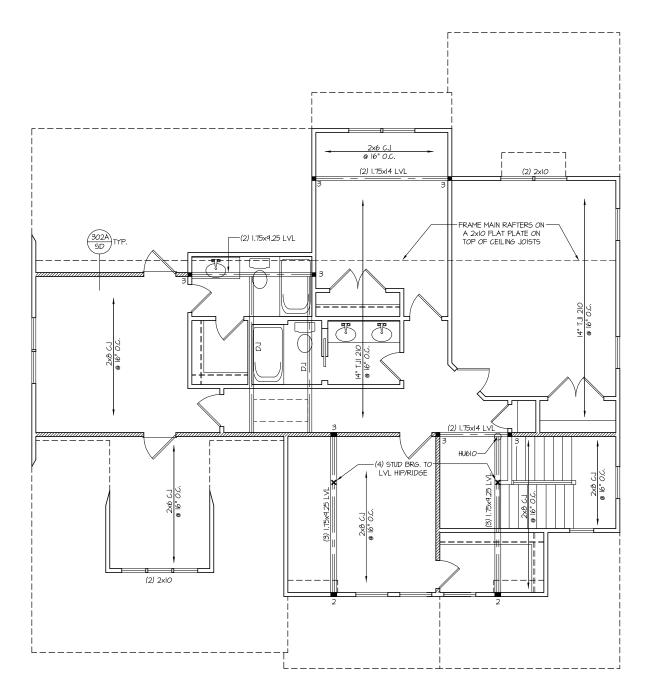
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S-2





HEADER/BEAM & COLUMN NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS
 SHALL BE MIN. (2)2xIO (4" WALL) OR (3)2xIO (6"
 WALL) WITH (I) SUPPORT STUD, UNLESS NOTED OTHERWISE.
- 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW PER NCDOI COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED 1-4-2020:
- UP TO 3' SPAN: (1) KING STUD OVER 3' UP TO 6' SPAN: (2) KING STUDS OVER 6' UP TO 4' SPAN: (3) KING STUDS OVER 9' UP TO 12' SPAN: (4) KING STUDS OVER 12' UP TO 15' SPAN: (5) KING STUDS

SECOND FLOOR STRUCTURAL PLAN

SCALE: 1/8"=1'-0"

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS AND STRUCTURAL NOTES

23-1300 (11CF)

PROJECT #

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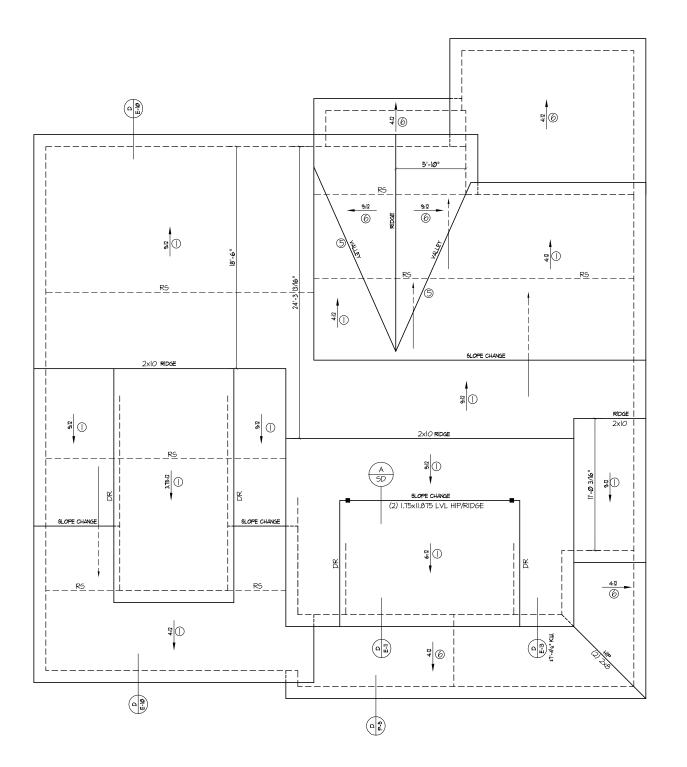
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S-3





NC (2018 NCRC): Wind: 115-120 mph

- 1. 2x8 RAFTERS @ 16" O.C. WITH 2x10 RIDGE, UNO.
- (2) 2xIO OR 1.75xII.675 LVL HIP. (2) 2xIO HIPS MAY BE SPLICED WITH A MIN. 6'-O" OVERLAP AT CENTER

- (5) FALSE FRAME VALLEY ON 2XIO FLAT PLATE

ROOF FRAMING NOTES:

(2) 2xIO OR 1.75x4.25 LVL VALLEY. DO NOT SPLICE VALLEYS

4) 1.75x11.875 LVL OR (2)1.75x9.25 LVL VALLEY

6) 2x6 RAFTERS @ 16" O.C. W 2x8 RIDGE, UNO.

1) 2xIO RAFTERS @ I6" O.C. W 2xI2 RIDGE, UNO.

(B) EXTEND RIDGE 12" BEYOND INTERSECTION

EXTEND RIDGE 12" BEYOND INTERSECTION

"SR" = SINGLE RAFTER

"PR" = DOUBLE RAFTER

"TR" = TRIPLE RAFTER

"RS" = ROOF SUPPORT

"B" = (3) STUD OR 4x4 POST FOR ROOF SUPPORT (USE
2X6 STUDS OR 6X6 POST FOR SUPPORT OVER 10'-0" IN

HEIGHT)

ATTACH VAULTED RAFTERS WITH HURRICANE CLIPS;

SIMPSON "H-25A" OR EQUIVALENT. TIES TO BE INSTALLED

ON THE OUTSIDE FACE OF FRAMING,

INSTALL RAFTER TIES AND COLLAR TIES PER SECTION

R802.3.1 OF THE 2018 NC RESIDENTIAL CODE.

DYNAMIC DESIGN GROUP

PROJECT # 23-1300 (11CF)

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S-4

ROOF STRUCTURAL PLAN

SCALE: 1/8"=1'-0" REFER TO "SD" SHEET(S) FOR STANDARD DETAILS AND STRUCTURAL NOTES

NC (2018 NCRC): Wind: 115-120 mph

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS VALLEYS, RIDGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD
 BEARING WALLS, PIER & GIRDER SYSTEM, FOOTING, AND PILING SYSTEM. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. ALL REQUIREMENTS FOR PROFESSIONAL CERTIFICATION SHALL BE PROVIDED BY THE APPROPRIATE PROFESSIONAL. SOUTHERN ENGINEERS, P.A. CERTIFIES ONLY THE STRUCTURAL COMPONENTS AS
- 2 ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE 2018 NC RESIDENTIAL CODE, PLUS ALL LOCAL CODES AND REGILLATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK, NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OU THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. "CONSTRUCTION REVIEW SERVICES ARE NOT PART OF OUR CONTRACT. ALL MEMBERS SHALL BE FRAMED ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE
- DESIGN LOADS (LISTED AS: LIVE LOAD, DEAD LOAD, DEFLECTION)
- ROOMS OTHER THAN SLEEPING ROOMS: (40 PSF, IO PSF, L/360) SLEEPING ROOMS: (30 PSF, IO PSF, L/360)

- ATTIC WITH PERMANENT STAIR: (40 PSF, IO PSF, L/360)
 ATTIC WITHOUT PERMANENT STAIR: (20 PSF, IO PSF, L/360)
- ATTIC WITHOUT STORAGE: (IO PSF, IO PSF, L/240)
- STAIRS: (40 PSF, 10 PSF, 1/360)
- DECKS AND EXTERIOR BALCONIES: (40 PSF, IO PSF, L/360)
- PASSENGER VEHICLE GARAGES: (50 PSF, IO PSF, L/360)
- 4. WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANELS. SEE FRAMING NOTES FOR THICKNESS AND NAILING REQUIREMENTS
- 5. SEE APPENDIX M (DCA6) FOR EXTERIOR DECK REQUIREMENTS INCLUDING ATTACHMENTS FOR LATERAL
- 6. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERNISE (INO). AIR ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS, ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP. CONTROL JOINTS IN SLABS SHALL BE SPACED ON A GRID OF +-30 TIMES THE DEPTH (D). CONTROL JOINTS SHALL BE SAWCUT TO A DEPTH OF I/D. (I.E. 4" CONCRETE SLABS SHALL HAVE $\frac{1}{4}$ " DEEP CONTROL JOINTS SAWCUT IN SLAB ON A +- $\frac{1}{4}$ O'-O" \times +- $\frac{1}{4}$ O'-O" GRID).
- 7. ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS
- 8. ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI) UNLESS NOTED OTHERWISE (UNO), ALL TREATED LUMBER SHALL BE SYP # 2. PLATE MATERIAL MAY BE SPF # 3 OR SYP #3 (Fc(perp) = 425 PSI - MIN).
- V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=265 PSI, E=1,9x10 PSI.
 P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2400 PSI, Fv=240 PSI, E=2,0x10 PSI.
 L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1,55x10 PSI. INSTALL 92 ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS
- IO. ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS, TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS, ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED
- II. ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 I/2" INCHES AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREMS (I/2" DIAMETER x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C. ALL STEEL TUBING SHALL BE ASTM A500.
- 12. REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60. LAP ALL REBAR SPLICES 30 BAR
- I3. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF I/2" DIAMETER BOLTS (ASTM A325) WITH WASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX), AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH END
- 14. BRICK LINTELS (WHEN REQUIRED) SHALL BE 3 1/2"x3 1/2"x1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-O". SEE PLANS FOR SPANS OVER 9'-0". SEE ALSO SECTION R703.8.3 LINTELS.

HEADER/BEAM & COLUMN NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2xIO (4" WALL) OR (3)2xIO (6' WALL) WITH (I) SUPPORT STUD, UNLESS NOTED
- THE NUMBER SHOWN AT BEAM AND HEADER
 SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN, THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW PER NCDOI COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED I-9-2020: UP TO 3' SPAN: (I) KING STUD
- OVER 3' UP TO 6' SPAN: (2) KING STUDS
- OVER 6' UP TO 9' SPAN: (3) KING STUDS
- OVER 9' UP TO 12' SPAN: (4) KING STUDS
- OVER 12' UP TO 15' SPAN: (5) KING STUDS

FRAMING NOTES

NC (2018 NCRC): Wind: 115-120 mph

- BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WSP: CS-WSP. NOTE THAT THE WALL BRACING AMOUNT PROVIDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY SECTION R602 IO OF THE CODE SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND WALL FRAMING
- EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (WSP) (EXPOSURE B: 1/16". EXPOSURE C: 15/32"). SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES.
- WSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE. BLOCK AT ROOF PER SECTION R602.10.4.5 AND ATTACH BRACED WALLS PER CODE. WSP SHEATHING BETWEEN FLOORS SHALL BE SPLICED ALONG CONTINUOUS BAND OR THE WSP SHEATHING MAY BE SPLICED ACROSS STUDS (CONTINUOUS ACROSS FLOOR SYSTEM) WITH BLOCKING AT PANEL EDGES (MINIMUM 12" BEYOND FLOOR BREAK) OR OTHER
- $\underline{\ ^{"}HD"}=\underline{\ ^{"}HD"}$ HOLDOWN: HOLD-DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE AN 800 POUND CAPACITY ASSEMBLY AS NOTED ON PLANS, SEE DETAILS FOR HD ASSEMBLY.
- **GROUND/FIRST FLOOR: USE "HD HOLD-DOWN DETAIL" ON SD SHEET (OR
- **UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON C520 OR CSHP20 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 7" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W (7) 8d NAILS.
- INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS) ATTACH I/2" GYPSUM BOARD (6B) ON EACH SIDE OF WALL WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ T" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS. SEE SECTION R602.10.4.4 OF THE CODE.
- INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBW-WSP" ON PLANS). ATTACH ONE SIDE WITH 1/4" MSP SHEATHING WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS) INSTALL BLOCKING AT ALL PANEL EDGES ATTACH GB OVER WSP AS REQUIRED. ATTACH OPPOSITE SIDE WITH I/2" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS. SEE SECTION R602.10.4.4 OF

FLOOR FRAMING NOTES:

- ADJUST SUBFLOOR THICKNESS OR JOIST SPACING AS REQ'D FOR FLOOR FINISH MATERIALS (IE. 16" OC FOR CERAMIC TILE)
- NON-BEARING PARTITIONS SHALL BE ADEQUATELY ATTACHED TO THE FLOOR, IT IS RECOMMENDED TO INSTALL AN ADDITIONAL JOIST OF PERPENDICULAR BLOCKING AT NON-BEARING PARTITION WALLS IN ORDER TO ATTACH THE SOLE PLATE
- IT IS RECOMMENDED TO INSTALL ADDITIONAL JOISTS UNDER KITCHEN ISLANDS FOR IMPROVED PERFORMANCE (DOUBLE EACH JOIST). IN ADDITION, IT IS RECOMMENDED TO INSTALL BLOCKING AS REQUIRED FOR BASE UNIT CONNECTION.

NOTE: DETAILS WITH A 'D' REFERENCE (EX. "D-FIO") ARE FOR ARCHITECTURAL REPRESENTATIONS ONLY. REFER TO "SD" SHEET(S) FOR STRUCTURAL DETAILS.

LVL CONNECTION LEGEND

- (2) PLY 1.75" LVL BEAMS:
- (3) ROWS OF IOD NAILS @ 12" O.C. OR (2) ROWS OF SIMPSON SDW22338 (OR EQUAL) SCREWS @ 16" O.C. FOR BEAMS UP
- (3) ROWS OF SIMPSON SDW22338 (OR EQUAL SCREWS @ 16" O.C. FOR BEAMS GREATER THAN 18"
- (3) PLY 1.75" LVL BEAMS:
- (3) ROWS OF IOD NAILS @ 8" O.C. ON EACH SIDE OR
- (2) ROWS OF SIMPSON SDW22500 (OR EQUAL) SCREWS @ 16" O.C. FOR BEAMS UP
- (3) ROWS OF SIMPSON SDW22500 (OR EQUAL SCREMS @ 16" O.C. FOR BEAMS GREATER THAN 18".
- (4) PLY 1.75" LVL BEAMS:
- (2) ROWS OF SIMPSON SDW22634 (OR EQUAL) SCREWS @ 16" O.C. FOR BEAMS UP
- (3) ROWS OF SIMPSON SDW22634 (OR EQUAL SCREWS @ 16" O.C. FOR BEAMS GREATER THAN 18".

WOOD I-JOISTS

- (SHALL BE ONE OF THE FOLLOWING)
- TJI 210 BY TRUS JOIST LPI 20 PLUS BY LP
- BCI 5000s 18 BY BC BLI 40 BY ONCENTER
- ALL I-JOISTS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS
- INSTALL SQUASH BLOCKS, WEB STIFFENERS, ETC. AS REQUIRED BY AND ACCORDING TO THE I-JOIST MANUFACTURER'S SPECIFICATIONS AND
- HANGERS FOR I-JOISTS ARE THE RESPONSIBILITY OF THE I-JOIST SUPPLIER.

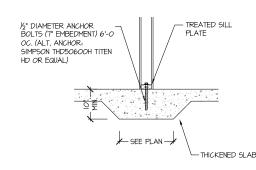
NOTE: I-JOISTS MAY BE SUBSTITUTED WITH FLOOR TRUSSES DESIGNED BY SUPPLIER (SAME DEPTH AND LAYOUT).

FRAMING TREATED SILL PLATE - K" DIAMETER ANCHOR BOLTS @ 6'-O" OC (7" EMBEDMENT) (ADJUST LOCATION AT DOOR OPENINGS.) LOCATE 12" FROM PLATE ENDS. BRICK (4 COARSE MAX). -**(POST INSTALLED OPTION: ½" DIAMETER THREADED ROD EMBEDDED 4-I/2" INTO ATTACH TO CONCRETE WITH BRICK TIES @ 16" OC (HORIZ.) IN EVERY OTHER COARSE. CONCRETE WITH EPOXY, MIN EDGE DISTANCE: 1-3/4", MIN END DISTANCE 8-1/2") BRICK TIES NOT REQUIRED FOR 4" CONC. SLAB FTG WIDTH (SEE PLAN)

MONOLITHIC SLAB FOOTING 115-120 (100B) MPH SD / (WITH EXPOSED BRICK AT FOUNDATION)

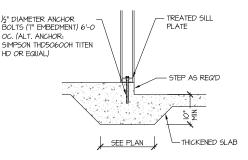
**NOT TO BE USED AT PORTAL FRAME LOCATIONS. **MAX 2 STORY

- WALL FRAMING TREATED SILL PLATE ½" DIAMETER ANCHOR BOLTS @ 6'-0" O.C. (7" EMBEDMENT) OR SIMPSON MASA MUDSILL ANCHORS @ 6'-O" O.C. (AD. IJST I OCATION AT DOOR OPENINGS.) LOCATE 12" FROM PLATE ENDS. CURB AS REQ'D 4" CONC. SLAB (SEE PLAN) SEE PLAN

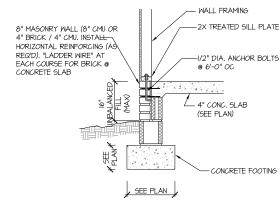


THICKENED SLAB INTERIOR BEARING WALL

MONOLITHIC SLAB @ GARAGE







STEM WALL SLAB FOOTING 115-120 (106B) MPH SD (SIDING W/ BRICK SKIRT.

PROJECT # 23-1300 (11CF)

CARO

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WGINER HERM

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one year from date of seal. oval of terms & conditions to be l Failure a gradin

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DYNAMIC DESIGN GROUP

KEN HARVEY HOMES

lsey - Garage Len) Hook Drive Tindsey - Game 240 Hook Driv Fuquay Varina, NC 27 Lot 11, Cotton Far

SD

PORCH POST NOTES:

4X4 (6x6) TRT'D POST (OR EQUAL) ATTACH TRUSSES (RAFTERS) AT PORCH WITH HURRICANE CONNECTORS. POST CAP: SIMPSON AC4-MAX (AC6-MAX)

POST CAP AT CORNER: (2) SIMPSON LCE4 (MITER HEADER AT CORNER). HIGH WIND; ADD (1) SIMPSON

POST BASE: SIMPSON ABU44 (ABU66).

3.I. 3.2.

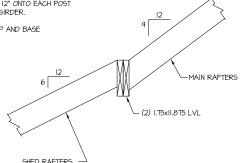
MONO: 5%" ANCHOR (EMBED 7")

CMU: 5%" ANCHOR (EXTEND TO FOOTING - HIGH WIND ONLY)

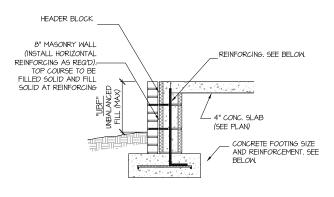
POST BASE: WOOD FOUNDATION: (2) SIMPSON CSIG

STRAPS AT POSTS. EXTEND 12" ONTO EACH POST (UPPER AND LOWER) OR TO GIRDER.

NOTE: EQUIVALENT POST CAP AND BASE ACCEPTABLE.



RAFTER DETAIL

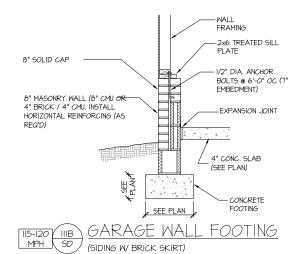


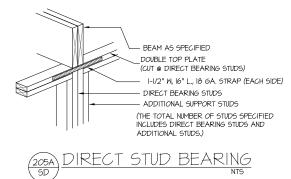
8" MASONRY (UN-REINFORCED) ON "UBF" = UP TO 16" ----16" WIDE BY 8" DEEP (MIN) CONC. FTG.

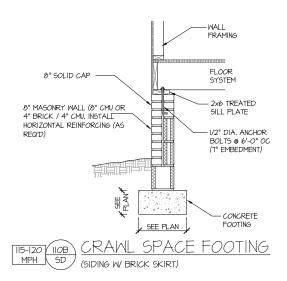
REINFORCE WALL W #5 BAR @ 48" O.C. W 7.5" BEND INTO FTG. 24" MIDE BY IO" DEEP CONC FTG REINFORCED W (3) #4 BAR OR (2) #5 BAR CONTINUOUS WITH #4 TIES @ 48"

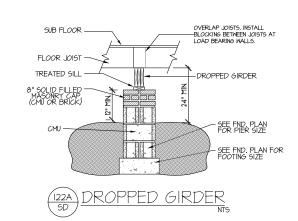
REINFORCE WALL W #5 BAR @ 24" O.C. W 7.5" BEND INTO FTG. 24" WIDE BY IO" DEEP CONC FTG REINFORCED W "UBF" = 24" UP TO 48" ---(3) #4 BAR OR (2) #5 BAR CONTINUOUS WITH #4 TIES @ 24"

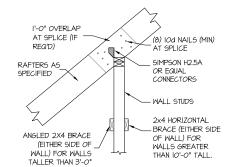




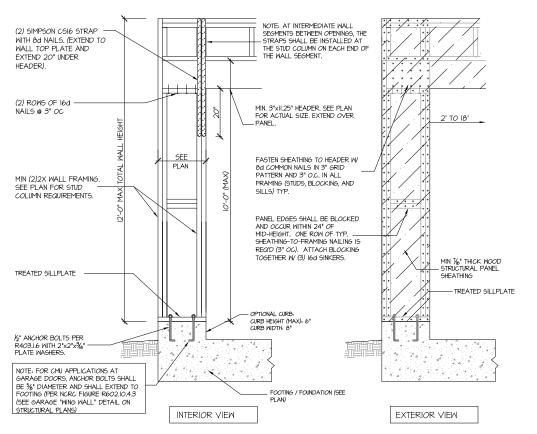




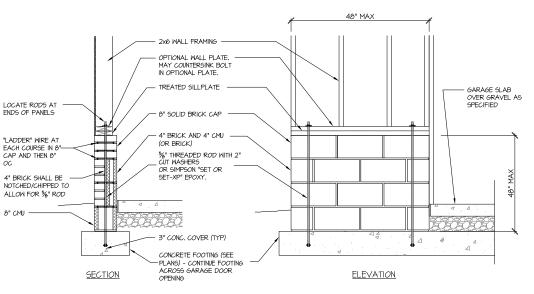






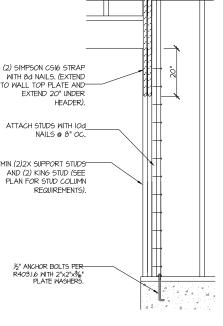


905B\CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION DETAIL AND APPLICATION BASED ON NCRC FIGURE R602.IO.I - PORTAL FRAME CONSTRUCTION



(907B) GARAGE 'WING WALL' REINFORCING PER IRC FIGURE R602.IO.4.3





CS-PF: END CONDITION DETAIL (FOR USE WITH SINGLE CS-PF CONDITION) DETAIL AND APPLICATION BASED ON NORC FIGURE R602.IO.I - PORTAL FRAME CONSTRUCTION

PROJECT # 23-1300 (11CF)

one year from date of seal. oval of terms & conditions

construction means, methods, techniques, or safety precautions. repancies on plans are to be brought to the f Southern Engineers. Failure to do so will ark ilability. Engine docume Seal doc sequenc Any dev immedia void Soc Seal is v Use of tl

P.A. 27609 Engineers, 1 Drive, Raleigh, NC 2 e: (919) 878-1617 www.southernengineers.com Southern Engi 3716 Benson Drive, Ral Phone: (919) 8

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