DRAWN BY: GV

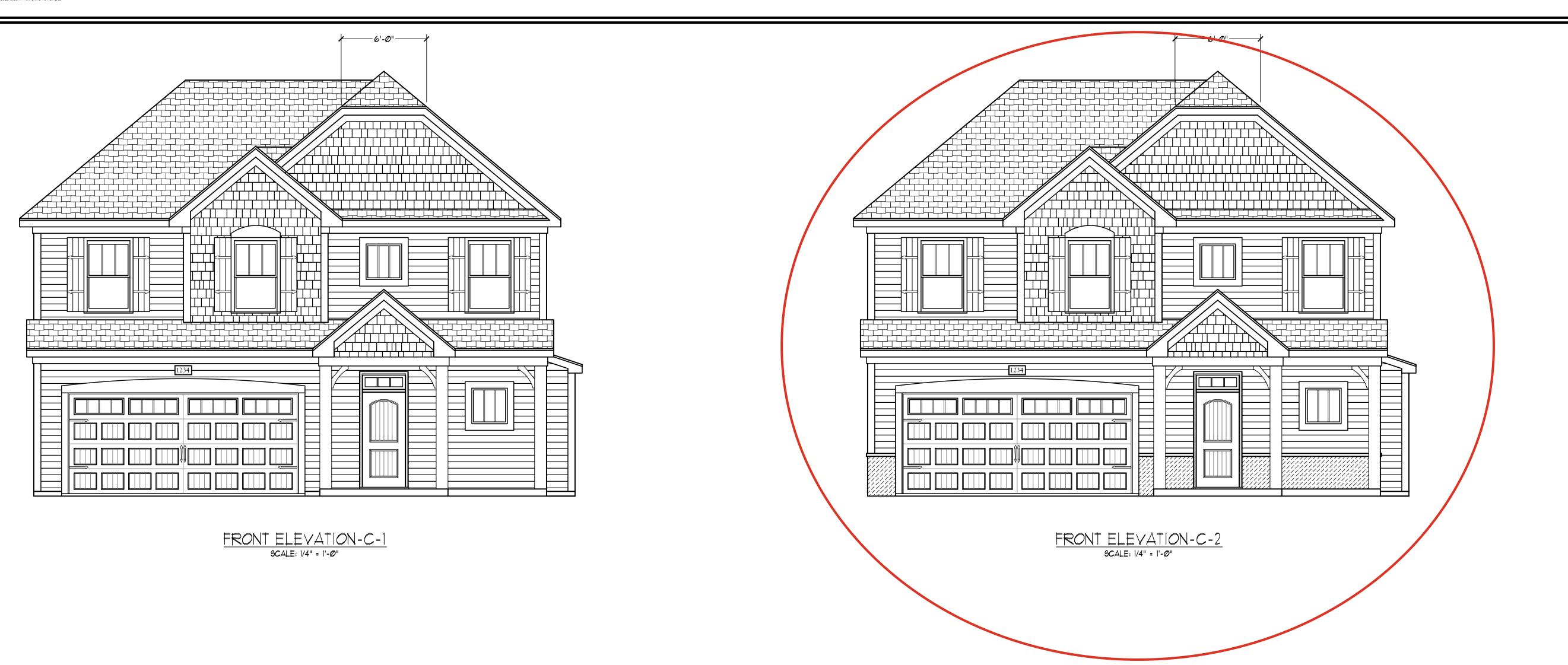
REVIEWED BY:

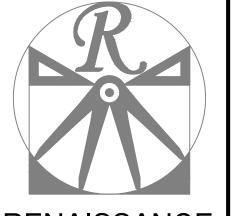
ENGINEERED BY:

# RIVERBIRCH

## RIVERBIRCH Revision List

- 1) Eliminate decorative vent in Elevation A (09-13-13)
- 2) Eliminate2 columns in Elevation B and modified the porch. The dormer will be an option (09-13-13)
- 3) Eliminate the decorative vent and brackets in Elevation C (09-13-13)
- 4) All windows have been updated. (11-04-13)
- 5) The side lights in the front door were eliminated (09-13-
- 6) 6-0 bi-fold door in laundry room (01--9-14)
- 7) Seismic zone requirements were added to the structural pages. (6-1-15)
- 8) Footing Details updated to the structural pages. (11-9-15)
- 9) Corrected LVL notes on Sheet S-2 in Garage area. (11-9-15)
- 10) Clarified Master Bathroom Shower Size as 42 x 36 (3-9-16)





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NGINEERING, INC 606 WADE AVE., SUITE 104 RALEIGH, NC 27605 PHONE: (919) 789-9919 FAX: (919) 789-9921 N.C. LICENSE NO.: C-1733

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RIVERBIRCE

DATE: JUNE 1, 2015

KEV.:

SCALE: AS NOTED

DRAWN BY: WG

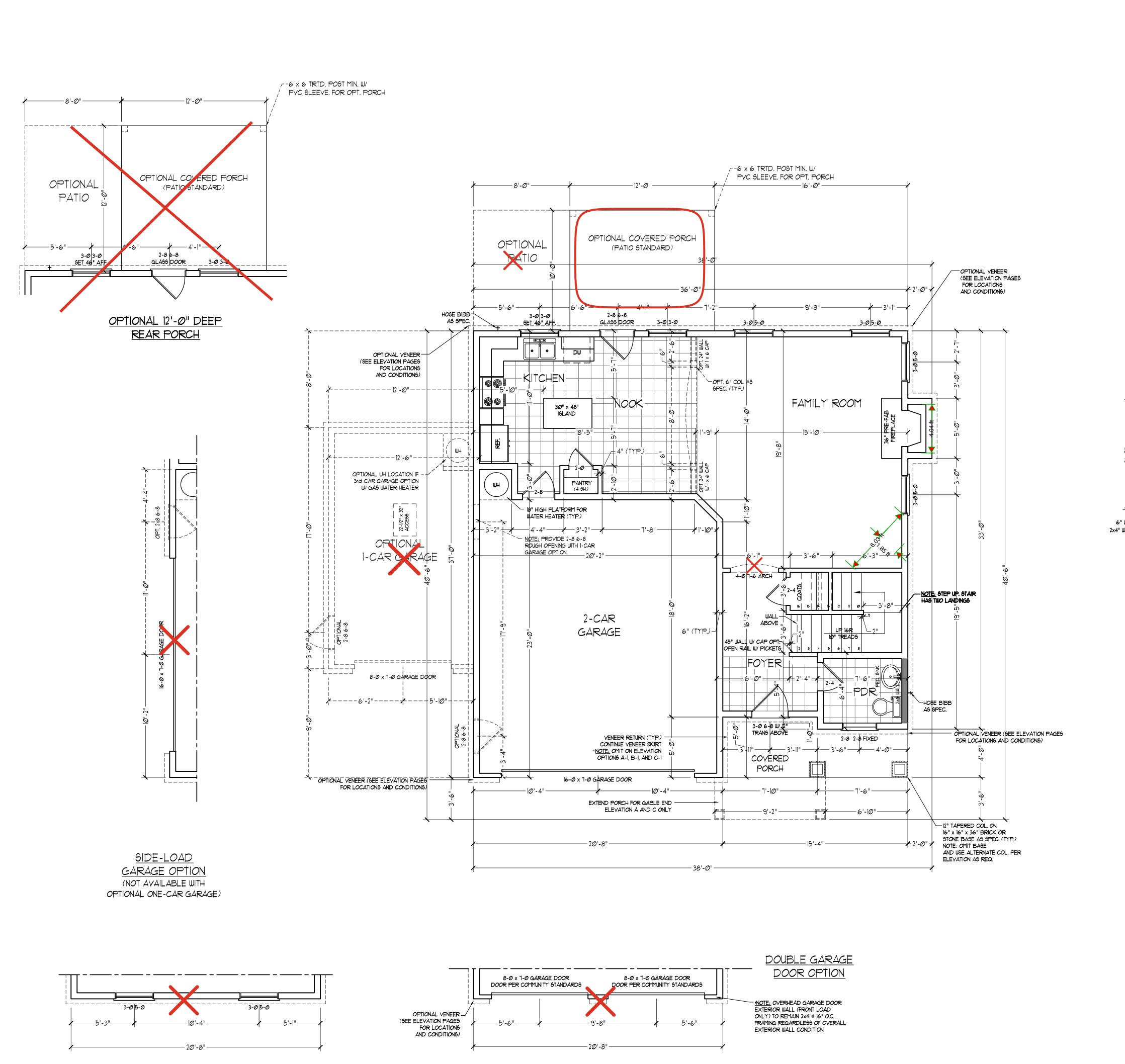
ENGINEERED BY: WLF

REVIEWED BY: JES

C - ELEVATION

OPTIONS

A-3.1



SQUARE FOOTAGE (STUD)

808 SQ. FT. 1st FLOOR: 928 SQ. FT. 2nd FLOOR: 1736 SQ. FT. 70 SQ. FT. FRONT PORCH: 120 SQ. FT. STD. REAR PATIO: GARAGE: 464 SQ. FT.

SQUARE FOOTAGE (OPTIONS)

FRONT PORCH (ELEV A&C):

101 SQ. FT.

REAR PORCH (10-0 DEEP):

120 SQ. FT.

1-CAR GARAGE (STUD):

I-CAR GARAGE (BRICK)

240 SQ. FT.

<del>277 SQ. FT</del>.

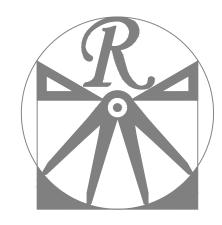
/-14" CORNER ARCH BY DRYWALL ~2x6" WALL THICKNESS CONTRACTOR (TYP.) -2x4" WALL THICKNESS 6" WALL CAP (TYP.)-2x4" WALL THICKNESS --5-12" BASE TRIM FOR COLUMN FINISH (TYP. TOP AND BOTTOM) TONAL FAMILY ROOM/ NOOK

COLUMN AND OPENING DETAIL

\*NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 4 @ 16" O.C. MIN. (UNO). 2 x 6 @ 16" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF  $2 \times 4$  WALLS. 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).

2×6 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: JUNE 1, 2015

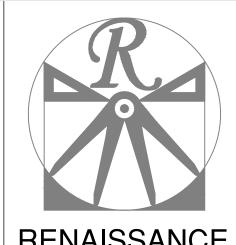
REV.:

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

ENGINEERED BY: WLF REVIEWED BY: JES

FIRST FLOOR PLAN

A-4



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RIVERBIRCH

DATE: JUNE 1, 2015

REV.:

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

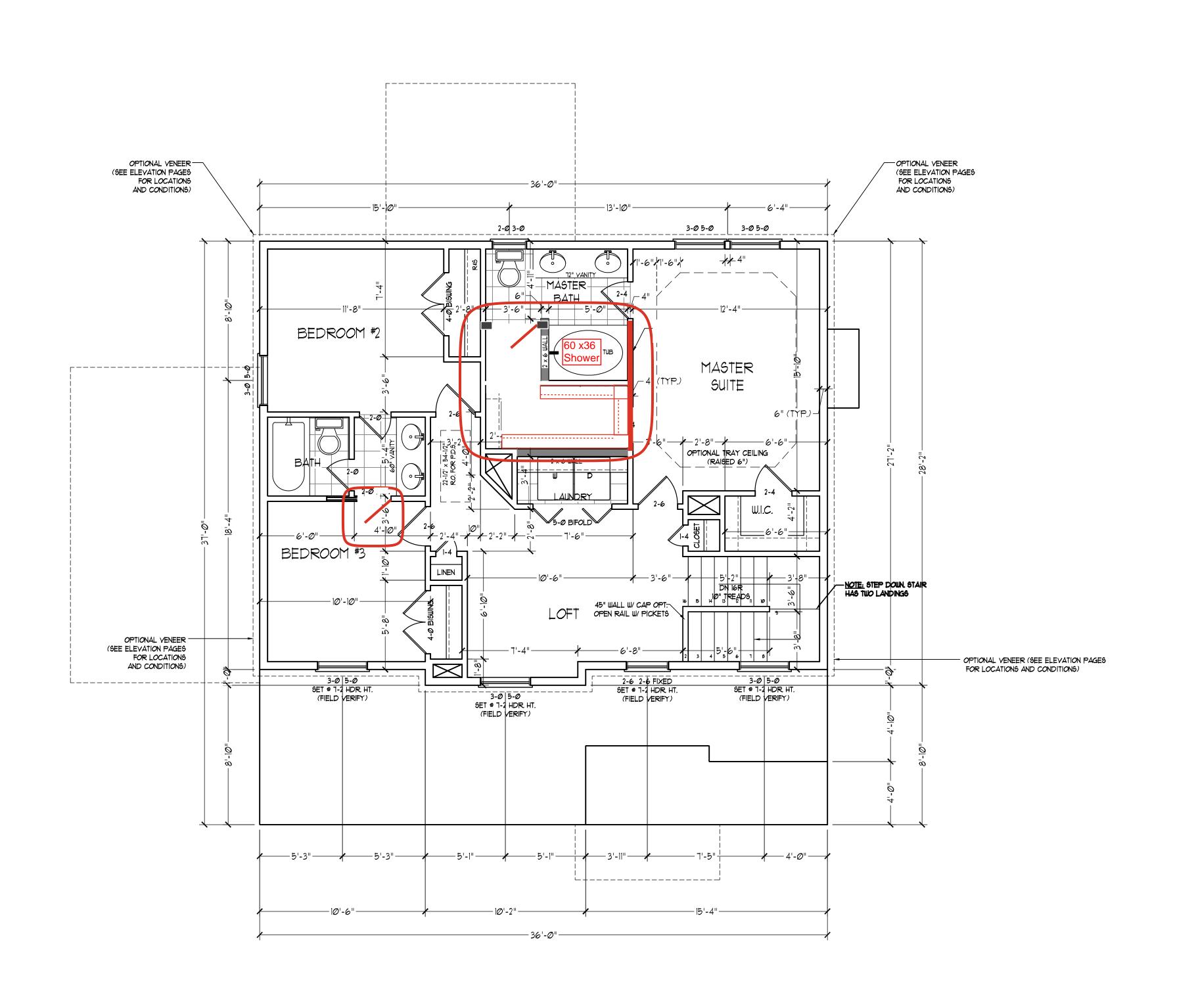
ENGINEERED BY: WLF

REVIEWED BY: JES

SECOND FLOOR

PLAN

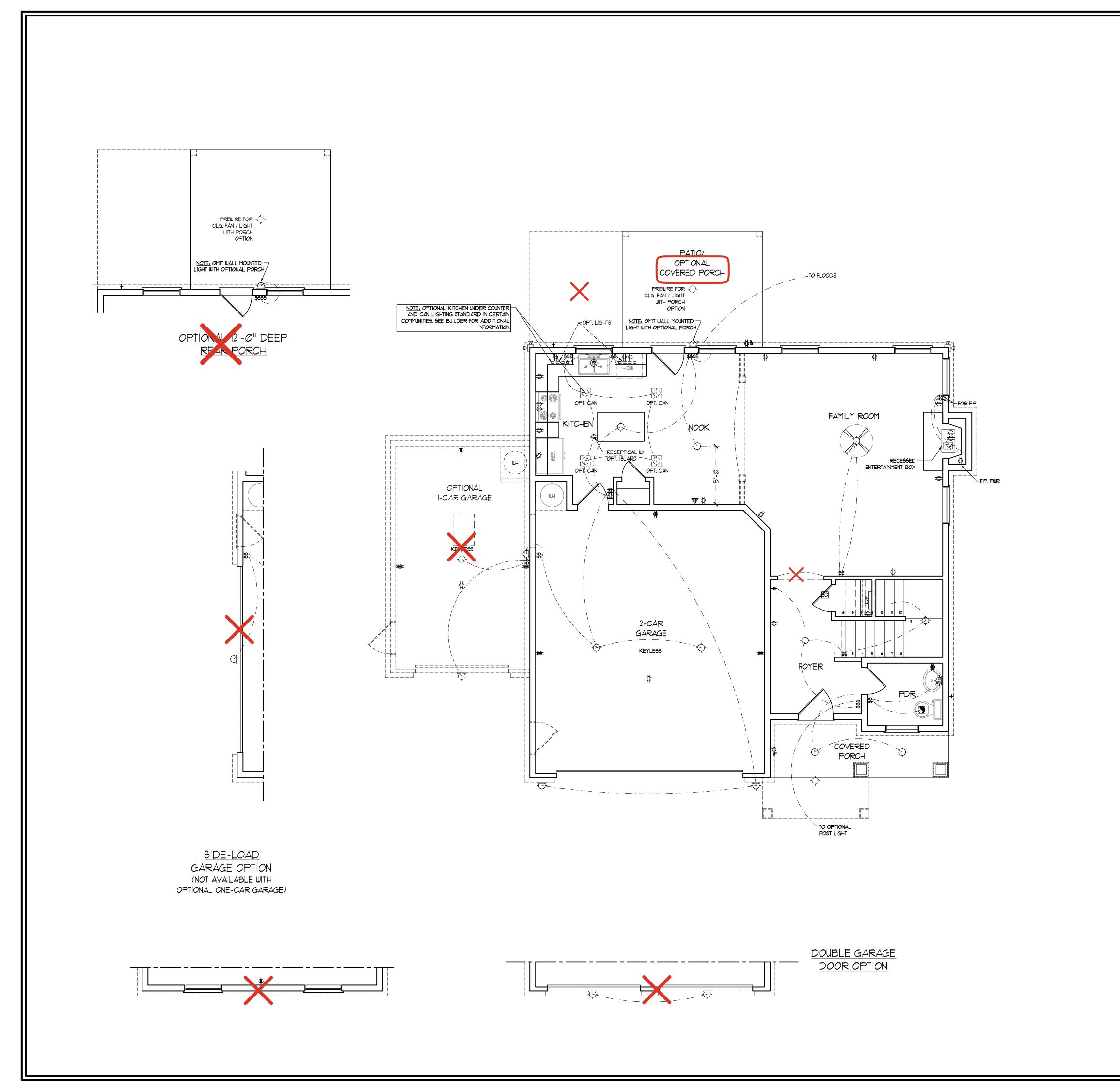
A-5



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

2x6 WALL

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



ELECTRICAL LAYOUT NOTES:

1.) BLOCK AND WIRE FOR ALL CELING FANS PER PLAN.

2.) VANITY LIGHTS TO BE SET 9 90" A.F.F. (TYP.)

3.) ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE

4.) PLACE SWITCHES 8" (MIN.) FROM ROUGH OPENINGS.

LOCATED BY ELECTRICIAN.

ELECTRICAL LEGEND

→ 110 ∨ OUTLET

⇒ 110 ∨ GFI OUTLET

= 110 v SWITCHED OUTLET

BB ← INO Y BASEBOARD OUTLET

4-PLEX

COUNTER OR FLOOR MOUNTED

COUNTER OR FLOOR MOUNTED 110Y GFI

₩ WEATHERPROOF

22∅ ∨ OUTLET

Ø 110 V DEDICATED CIRCUIT

Ø 22Ø ∨ DEDICATED CIRCUIT

● SPECIAL PURPOSE (240 V, ETC.)

- WALL MOUNT LIGHT

CEILING MOUNT LIGHT

-P- PENDANT LIGHT

RECESSED CAN LIGHT

MINI CAN LIGHT

EYEBALL LIGHT

FLUORESCENT LIGHT

UNDERCABINET LIGHT

FLOOD LIGHT

\$ SWITCH

\$3 3-WAY 9WITCH

\$4 4-WAY SWITCH

\$D DIMMER SWITCH

1 TELEPHONE

TV- TV CONNECTION

CD- CONDUIT FOR COMPONENT WIRING

SP SPEAKER

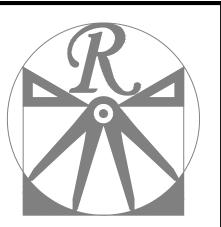
D- DOORBELL CHIME

EXHAUST FAN

LOW VOLTAGE PANEL

CEILING FAN

CEILING FAN W/ LIGHT



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RIVERBIRCH

DATE: JUNE 1, 2015

REV.:

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

DRAWN BY: WG

ENGINEERED BY: WLF

REVIEWED BY: JES

FIRST FLOOR ELECTRICAL PLAN

E-1



2.) VANITY LIGHTS TO BE SET

3.) ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE

4.) PLACE SWITCHES 8" (MIN.) FROM

ELECTRICAL LEGEND

LOCATED BY ELECTRICIAN.

@ 90" A.F.F. (TYP.)

ROUGH OPENINGS.

 $\Rightarrow$  110  $\vee$  OUTLET

4-PLEX

⇒ 110 v GFI OUTLET

₩EATHERPROOF

- WALL MOUNT LIGHT 

-P- PENDANT LIGHT

MINI CAN LIGHT

EYEBALL LIGHT

FLOOD LIGHT

\$3 3-WAY SWITCH \$4 4-WAY SWITCH

\$D DIMMER SWITCH

TV- TV CONNECTION

D- DOORBELL CHIME

SD 110 Y SMOKE DETECTOR

LOW VOLTAGE PANEL

CD- CONDUIT FOR COMPONENT WIRING

1 TELEPHONE

SP SPEAKER

EXHAUST FAN

\$ SWITCH

RECESSED CAN LIGHT

**⇒** 220 ∨ OUTLET

⇒ 110 ∨ SWITCHED OUTLET

BB 👄 110 V BASEBOARD OUTLET

COUNTER OR FLOOR MOUNTED

Ø 110 V DEDICATED CIRCUIT

# 22Ø ∨ DEDICATED CIRCUIT

► SPECIAL PURPOSE (240 V, ETC.)

COUNTER OR FLOOR MOUNTED 110/ GF1

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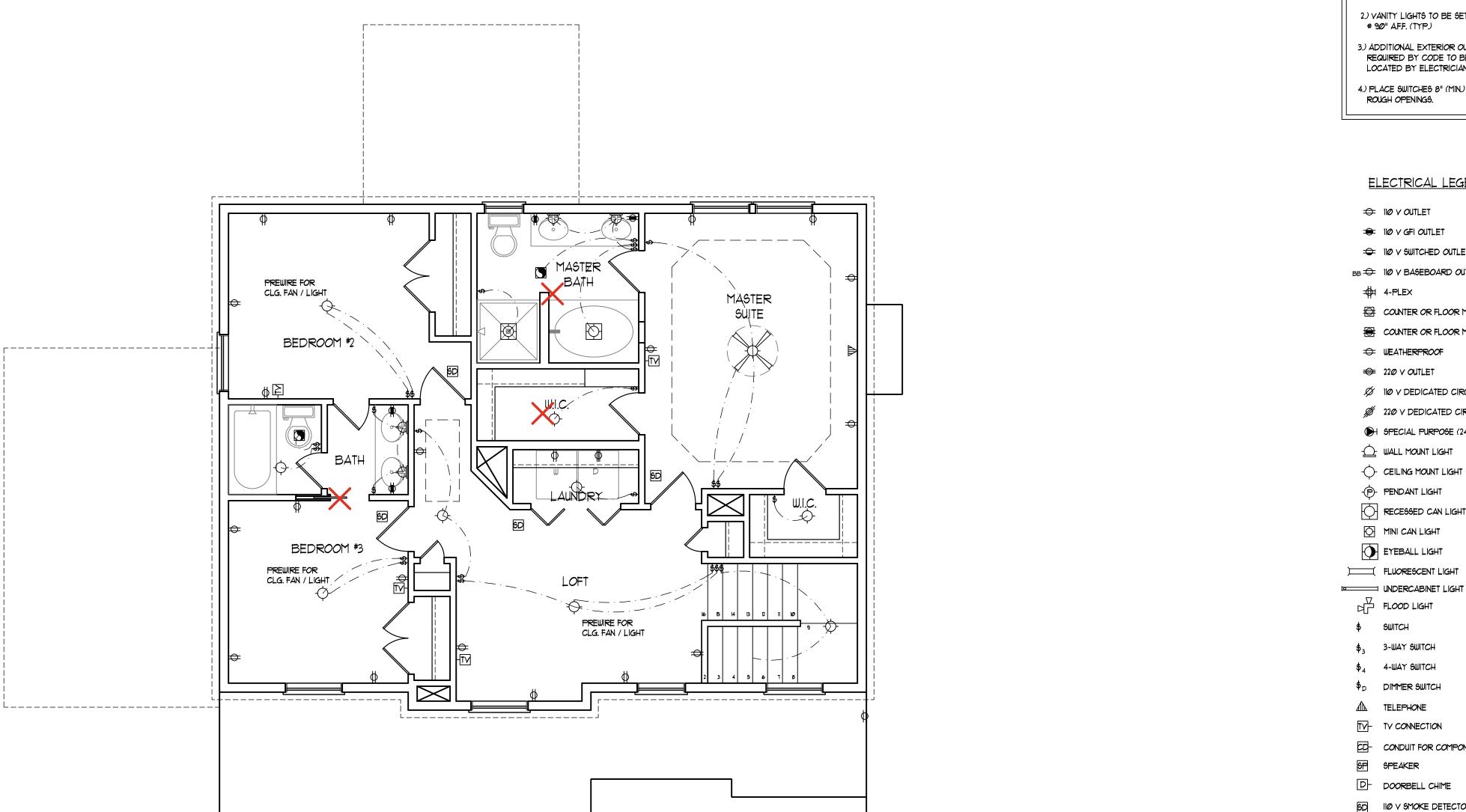
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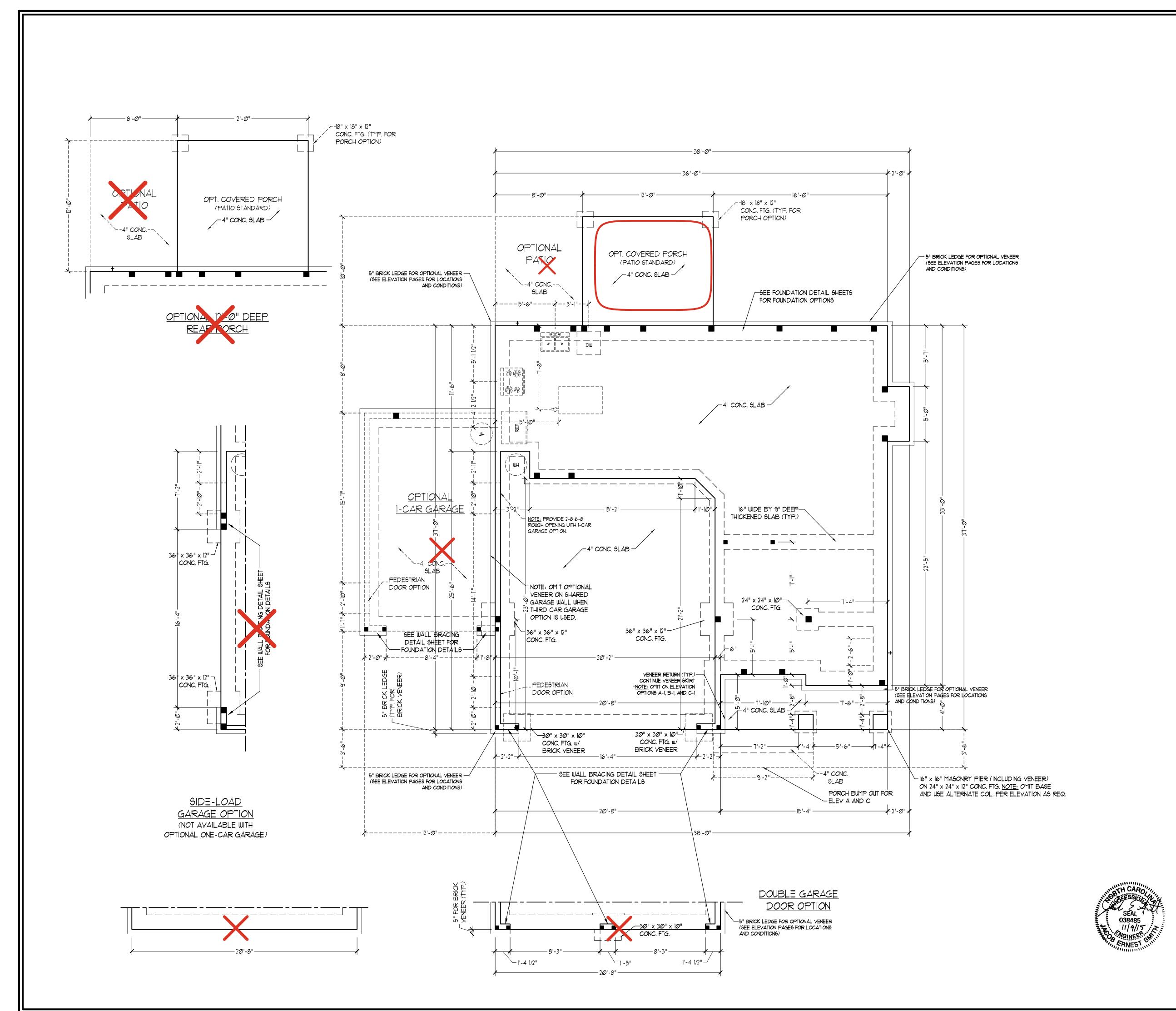
DRAWN BY: WG

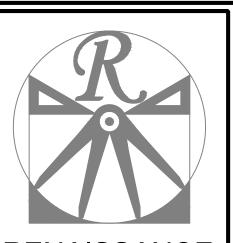
ENGINEERED BY: WLF REVIEWED BY: JES

SECOND FLOOR ELECTRICAL PLAN

E-2







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N.C. LICENSE NO.: C-1733

130-MPH WIND ZONE NOTES FOR

LESS THAN 30' MEAN ROOF HEIGHT:

1) ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS, ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING

2) STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2012 EDITION

3) BUILDER IS TO PROVIDE FRAMING CONNECTIONS AS REQUIRED BY CHAPTER 45 ("HIGH WIND ZONES" FOR 130 MPH WINDS) OF

WITH SPECIAL CONSIDERATION TO CHAPTER 45 ("HIGH WIND ZONES" FOR 130 MPH WINDS).

THE NORTH CAROLINA RESIDENTIAL CODE,

4) FOUNDATION ANCHORAGE TO COMPLY

6) WALL CLADDING DESIGNED FOR 40.7

1) ROOF CLADDING DESIGNED FOR 35.6 PSF (POSITIVE AND NEGATIVE) FOR ROOF

PITCHES 1/12 TO 12/12 AND 58.7 PSF (POSITIVE

AND NEGATIVE) FOR ROOF PITCHES 2.25/12 TO

8) 7/16" OSB SHEATHING IS REQUIRED ON

WITH SECTION R602.10 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2012 EDITION.

9) WALLS TO BE BRACED IN ACCORDANCE

10) ENERGY EFFICIENCY COMPLIANCE AND

INSULATION VALUES OF THE BUILDING TO BE

100-MPH WIND ZONE NOTES FOR

LESS THAN 30' MEAN ROOF HEIGHT:

1) ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF

2) STRUCTURAL DESIGN PER NORTH CAROLINA

3) INSTALL 1/2" ANCHOR BOLTS 6'-Ø" O.C. AND WITHIN 1'-Ø" FROM END OF EACH PLATE, ANCHOR BOLTS MUST EXTEND A MINIMUM OF 1" INTO

4) MEAN ROOF HEIGHT IS LESS THAN 30 FEET.

5) EXTERIOR WALLS DESIGNED FOR 100 MPH

6) WALL CLADDING DESIGNED FOR 24.1 PSF

1) ROOF CLADDING DESIGNED FOR 210 PSF (POSITIVE AND NEGATIVE) FOR ROOF PITCHES

1/12 TO 12/12 AND 34.8 PSF (POSITIVE AND NEGATIVE) FOR ROOF PITCHES 2.25/12 TO 1/12.

8) INSTALL 1/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10.3 OF THE

NCRC, 2012 EDITION. SEE THE WALL BRACING NOTES AND DETAILS SHEET FOR MORE

9) ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN

ACCORDANCE WITH CHAPTER II OF THE NORC,

10) REFER TO NOTES AND DETAIL SHEETS

FOR ADDITIONAL STRUCTURAL INFORMATION.

RESIDENTIAL CODE, 2012 EDITION.

MASONRY OR CONCRETE.

(POSITIVE AND NEGATIVE).

INFORMATION.

IN ACCORDANCE WITH CHAPTER II OF THE

RESIDENTIAL CODE, 2012 EDITION. 5) MEAN ROOF HEIGHT IS LESS THAN 30

PSF (POSITIVE AND NEGATIVE).

ALL EXTERIOR WALLS.

NCRC, 2012 EDITION.

WITH SECTION 45/04 OF THE NORTH CAROLINA

ROOF SYSTEM.

2012 EDITION.

ARE ESTIMATED AND MAY VARY IN ACTUAL

ARE ESTIMATED AND MAY VARY IN ACTUAL

ONSTRUCTION. ACTUAL POSITION OF HOUSE ON LOT

L BE DETERMINED BY THE SITE PLAN AND PLOT PLAN.

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NERBIRCE

DATE: JUNE 1, 2015

REV.:

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

REVIEWED BY: JES

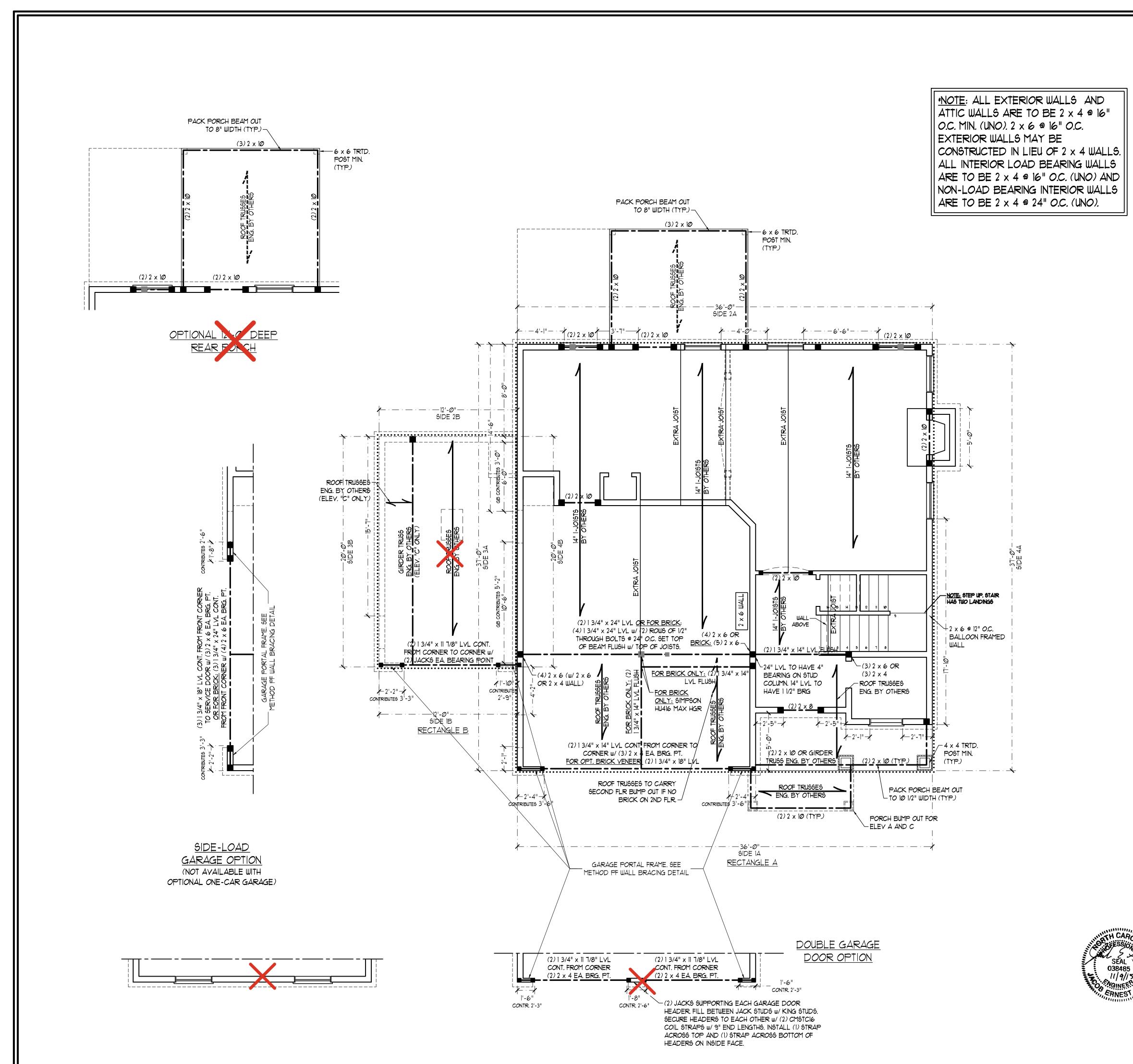
DRAWN BY: WG

ENGINEERED BY: WLF

MONO SLAB FOUNDATION

S-1

PLAN



#### BRACED WALL DESIGN NOTES:

WALL INFORMATION.

- BRACED WALL DESIGN PER SECTION R602.10 OF THE SIMPLIFIED WALL BRACING CRITERIA EFFECTIVE SEPTEMBER
- 2. CS-WSP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL 1/16" OSB ON ALL EXTERIOR WALLS ATTACHED W/8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.
- 3. \*GB REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED TO O.C. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.
- BRACED WALL DESIGN APPLIES IN WIND ZONES UP TO 110 MPH. FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NCRC, 2012 EDITION. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED

#### BRACED WALL DESIGN

| <u>RECTANGLE A</u>   | RECTANGLE B |  |
|----------------------|-------------|--|
| SIDE IA (FRONT LOAD) | SIDE IB     |  |

METHOD: C5-W5P/PF

TOTAL REQUIRED LENGTH: 15.43'

TOTAL PROVIDED LENGTH: 16.49'

SIDE 2A

METHOD: C5-W5P/PF

TOTAL REQUIRED LENGTH: 4.56'

TOTAL PROVIDED LENGTH: 6'

SIDE 2B

METHOD: C5-W5P

METHOD: C5-WSP

TOTAL REQUIRED LENGTH: 15.43'

TOTAL PROVIDED LENGTH: 18.16'

6IDE 3A (SIDE LOAD)

METHOD: C5-WSP

TOTAL REQUIRED LENGTH: 4.56'

TOTAL PROVIDED LENGTH: 12'

6IDE 3B

METHOD: C5-W5P/PF
TOTAL REQUIRED LENGTH: 15.03'
TOTAL PROVIDED LENGTH: 20.25'
SIDE 4A
METHOD: C5-W5P
TOTAL REQUIRED LENGTH: 3.19'
TOTAL PROVIDED LENGTH: 15.58'
SIDE 4B / SIDE 3A SHARED
METHOD: C5-W5P/GB

TOTAL REQUIRED LENGTH: 15.03'
TOTAL PROVIDED LENGTH: 27.83'
TOTAL PROVIDED LENGTH: 22.41'

| LINTEL SCHEDULE FOR<br>BRICK/NATURAL STONE SUPPORT |                        |  |  |
|--|------------------------|--|--|
| LENGTH (FT.)                                       | SIZE OF LINTEL         |  |  |
| UP TO 4 FT.  | L 3 1/2 x 3 1/2 x 1/4  |  |  |
| 4-8  | L 5 x 3 1/2 x 5/16 LLV |  |  |
| 8 AND GREATER                                      | L 6 x 4 x 5/16 LLV     |  |  |
|  |                        |  |  |

#### NOTES:

- LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO). SEE ARCH DWGS. FOR SIZE AND LOCATION OF OPENINGS.
- . (LLV) = LONG LEG VERTICAL b. LENGTH = CLEAR OPENING
- EMBED ALL ANGLE IRONS MIN. 4" EACH SIDE INTO VENEER TO PROVIDE BEARING. FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, ATTACH STEEL ANGLE TO HEADER W/ 1/2" LAG SCREWS @ 12" O.C. STAGGERED.
- 6. FOR ALL BRICK SUPPORT © ROOF LINES, FASTEN A 5" x 3 1/2" x 5/16" STEEL ANGLE TO 2 x 10 BLOCKING INSTALLED BETWEEN WALL STUDS W/ 1/2" LAG SCREWS 12" O.C. STAGGERED AND IN ACCORDANCE TO SECTION RT03.7.2.2 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2012 EDITION
- PRECAST REINFORCED CONCRETE
  LINTELS ENGINEERED BY OTHERS MAY BE
  USED IN LIEU OF STEEL LINTELS.

#### STRUCTURAL NOTES:

- . ALL FRAMING LUMBER TO BE #2 SPF (UNO).
- 2. ALL LOAD BEARING HEADERS TO BE (2) 2 x 10 (UNO).
- 3. PROVIDE EXTRA JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS.
- 4. ALL BEAMS ARE TO BE SUPPORTED WITH (2) 2 x 4 PER END (UNO).
  5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO
- GIRDER OR FOUNDATION.

  6. FOR HIGH WIND ZONES, PROVIDE (2) 2

  × 6 KING STUDS EA. SIDE OF

  EXTERIOR WINDOW AND DOOR

  HEADERS W/ CLEAR OPENINGS LESS

  THAN 6'-0" AND (3) 2 × 6 KING STUDS

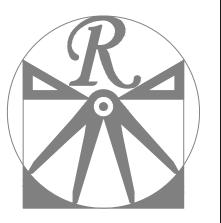
  EA. SIDE OF HEADERS W/ CLEAR
- OPENINGS GREATER THAN 6'-0".

  ALL 4 x 4 POSTS SHALL BE

  ANCHORED TO SLABS W/ WITH
  SIMPSON ABU44 POST BASES (OR
  EQUAL) AND 6 x 6 POSTS W/ ABU66
  POST BASES (OR EQUAL) (UNO). ALL
  4 x 4 AND 6 x 6 POSTS TO BE
  INSTALLED WITH TOO LB CAPACITY
- UPLIFT CONNECTORS AT TOP (UNO.)

  8. REFER TO NOTES AND DETAIL SHEETS
  FOR ADDITIONAL STRUCTURAL
  INFORMATION.

NOTE: DSP DENOTES DOUBLE STUD POCKET



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> FAX: (919) 789-9921 N.C. LICENSE NO.: C-1733

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DATE: JUNE 1, 2015

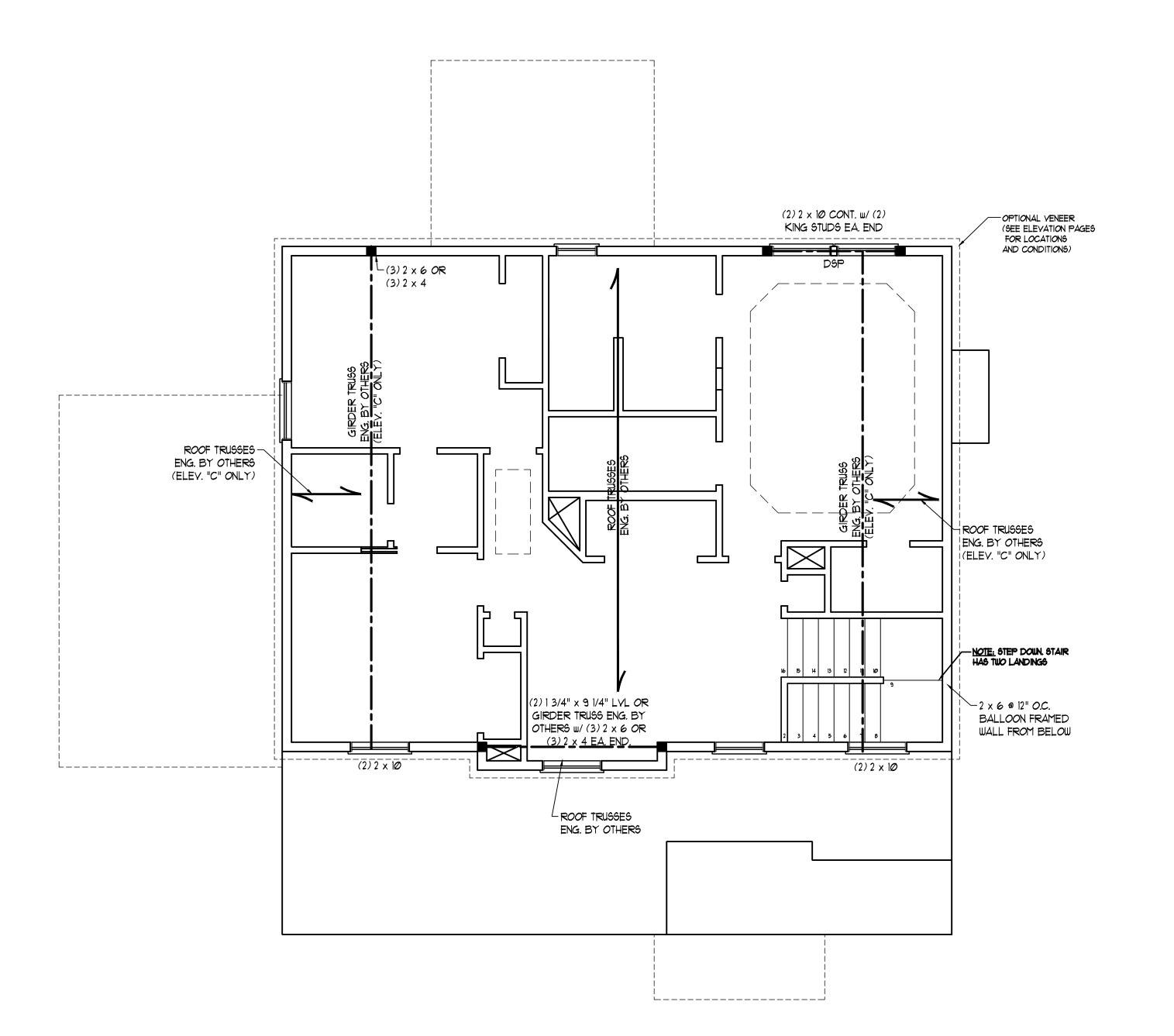
REV.: SCALE: 1/4"=1'-0"

DRAWN BY: WG

ENGINEERED BY: WLF
REVIEWED BY: JES

SECOND FLOOR FRAMING PLAN

S-2





\*NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 4 @ 16"
O.C. MIN. (UNO). 2 x 6 @ 16" O.C.
EXTERIOR WALLS MAY BE
CONSTRUCTED IN LIEU OF 2 x 4 WALLS.
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).

| , |  |                        |  |  |
|---|--|------------------------|--|--|
|   | LINTEL SCHEDULE FOR<br>BRICK/NATURAL STONE SUPPORT |                        |  |  |
|   | <b>2</b> 1 (101 (11 (11 (11 (11 (11 (11 (11 (11 (  |                        |  |  |
|   | LENGTH (FT.)                                       | SIZE OF LINTEL         |  |  |
|   | UP TO 4 FT.  | L 3 1/2 x 3 1/2 x 1/4  |  |  |
|   | 4-8  | L 5 x 3 1/2 x 5/16 LLV |  |  |
|   | 8 AND GREATER                                      | L 6 x 4 x 5/16 LLV     |  |  |

#### NOTE

LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO). SEE ARCH DUGS. FOR SIZE AND LOCATION OF OPENINGS.

- (LLV) = LONG LEG VERTICAL
- LENGTH = CLEAR OPENING
- EMBED ALL ANGLE IRONS MIN. 4" EACH SIDE INTO VENEER TO PROVIDE BEARING. FOR ALL HEADERS 8'-0" AND GREATER
- 5. FOR ALL HEADERS 8'-0" AND GREATER
  IN LENGTH, ATTACH STEEL ANGLE TO
  HEADER W/ 1/2" LAG SCREWS @ 12" O.C.
  STAGGERED.
- 6. FOR ALL BRICK SUPPORT @ ROOF LINES, FASTEN A 5" x 3 1/2" x 5/16" STEEL ANGLE TO 2 x 10 BLOCKING INSTALLED BETWEEN WALL STUDS W/ 1/2" LAG SCREWS 12" O.C. STAGGERED AND IN ACCORDANCE TO SECTION R103.7.2.2 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2012 EDITION
- PRECAST REINFORCED CONCRETE
  LINTELS ENGINEERED BY OTHERS MAY BE
  USED IN LIEU OF STEEL LINTELS.

#### BRACED WALL DESIGN NOTES:

WALL INFORMATION.

- 1. BRACED WALL DESIGN PER SECTION R602.10 OF THE SIMPLIFIED WALL BRACING CRITERIA EFFECTIVE SEPTEMBER 1,
- 2. CS-WSP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL T/16" OSB ON ALL EXTERIOR WALLS ATTACHED W/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.
- 3. \*GB REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH I 1/4" SCREWS OR I 5/8" NAILS SPACED T" O.C. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.

  4. BRACED WALL DESIGN APPLIES IN WIND ZONES UP TO 110 MPH.
- FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NCRC, 2012 EDITION.

  5. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED

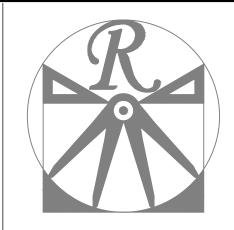
#### NOTE:

- 1. PER SECTION R602.10.3.2 OF THE 2012 NCRC, 2012 EDITION, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS REQUIRED.
- 2. SHEATH ALL EXTERIOR WALLS WITH 1/16" OSB SHEATHING ATTACHED WITH 8d NAILS AT 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.

#### STRUCTURAL NOTES:

- 1. ALL FRAMING LUMBER TO BE #2 SPF (UNO).
  2. ALL LOAD BEARING HEADERS TO BE (2) 2
  × 10 (UNO).
- 3. ALL BEAMS ARE TO BE SUPPORTED WITH (2) 2 x 4 PER END (UNO). I. FOR HIGH WIND ZONES, PROVIDE (2) 2 x 6
- KING STUDS EA. SIDE OF EXTERIOR WINDOW AND DOOR HEADERS W/ CLEAR OPENINGS LESS THAN 6'-O" AND (3)2 x 6 KING STUDS EA. SIDE OF HEADERS W/ CLEAR OPENINGS GREATER THAN 6'-O".
- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

NOTE: DSP DENOTES DOUBLE STUD POCKET



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RIVERBIRCE

DATE: JUNE 1, 2015

REV.:

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

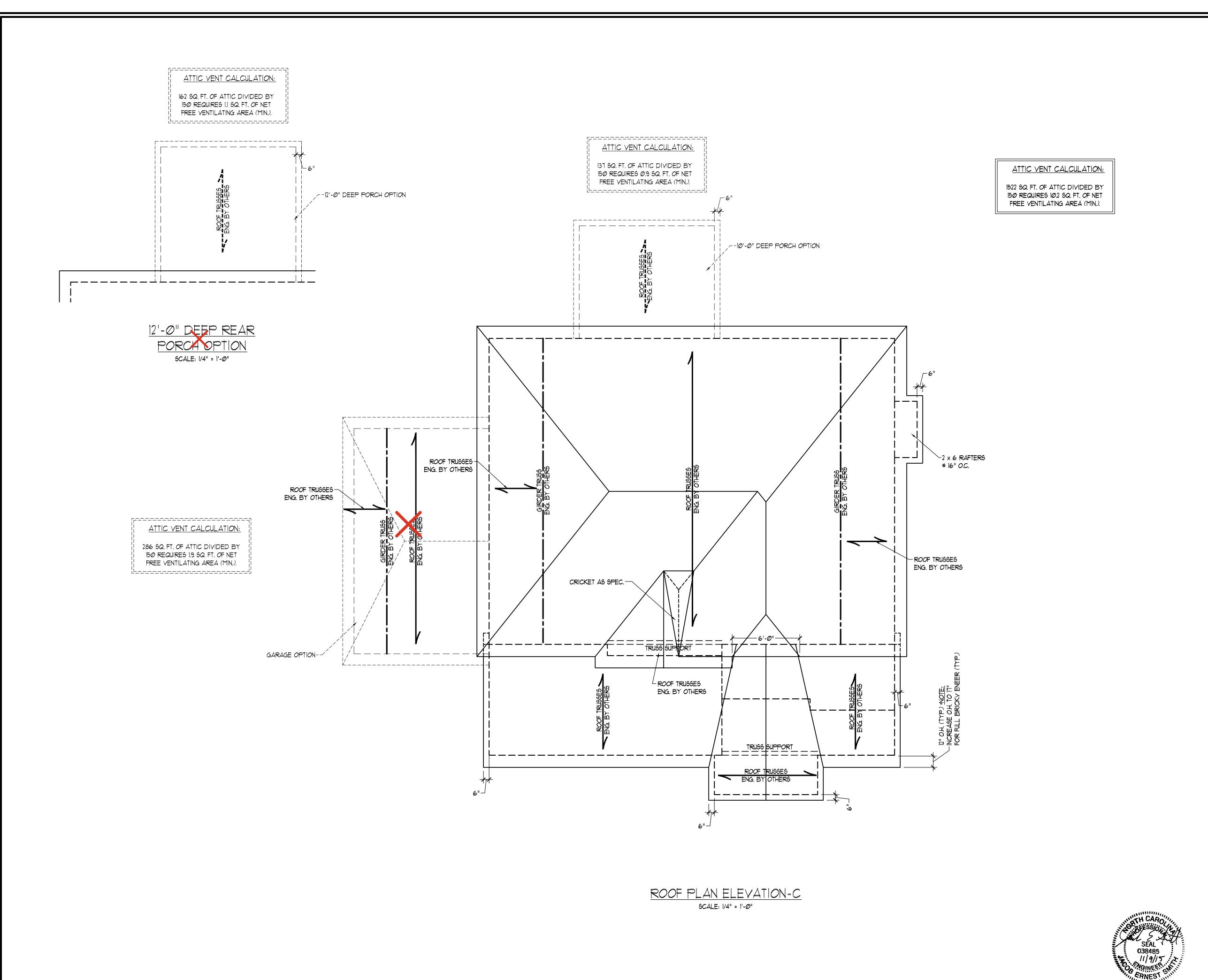
DRAWN BY: WG

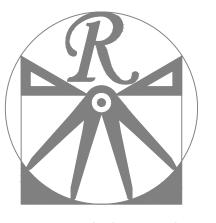
ENGINEERED BY: WLF

REVIEWED BY: JES

ATTIC FLOOR FRAMING PLAN

S-3





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BRICK SUPPORT NOTE:

FOR BRICK SUPPORT @ ROOF LINES, BOLT A 5" x 3 1/2" x 5/16" STEEL ANGLE TO 2 x 10 BLOCKING INSTALLED BETWEEN WALL STUDS W/ 1/2" LAG SCREWS 12" O.C. STAGGERED AND IN ACCORDANCE WITH

2. WHERE ROOF SLOPES EXCEED 7:12, INSTALL

3" x 3" x 1/4" STEEL PLATE STOPS AT 24"

O.C. PER SECTION R103.1.2.1 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2012

STRUCTURAL NOTES:

FOR ROOF SUPPORT.

SPF (UNO).

16" O.C. (TYP.)

VALLEY TRUSSES.

TOE NAILS.

6. FASTEN FLAT VALLEYS TO

RAFTERS OR TRUSSES WITH

SIMPSON H2.5A HURRICANE TIES @

SHEATHING. EACH RAFTER IS TO BE FASTENED TO THE FLAT

VALLEY WITH A MIN. OF (6) 12d

REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

32" O.C. MAX. PASS HURRICANE TIES THROUGH NOTCH IN ROOF

ALL FRAMING LUMBER TO BE #2

CIRCLES DENOTE (3) 2 x 4 POSTS

6. FRAME DORMER WALLS ON TOP
OF DOUBLE OR TRIPLE RAFTERS.
I. HIP SPLICES ARE TO BE SPACED
A MIN. OF 8'-0". FASTEN MEMBERS
WITH THREE ROWS OF 12d NAILS @

STICK FRAME OVER-FRAMED ROOF SECTIONS W/2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10 VALLEYS OR USE

SECTION R703.7.2.2 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2012

EDITION.

RIVERBIRCH

DATE: JUNE 1, 2015

REV.:

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

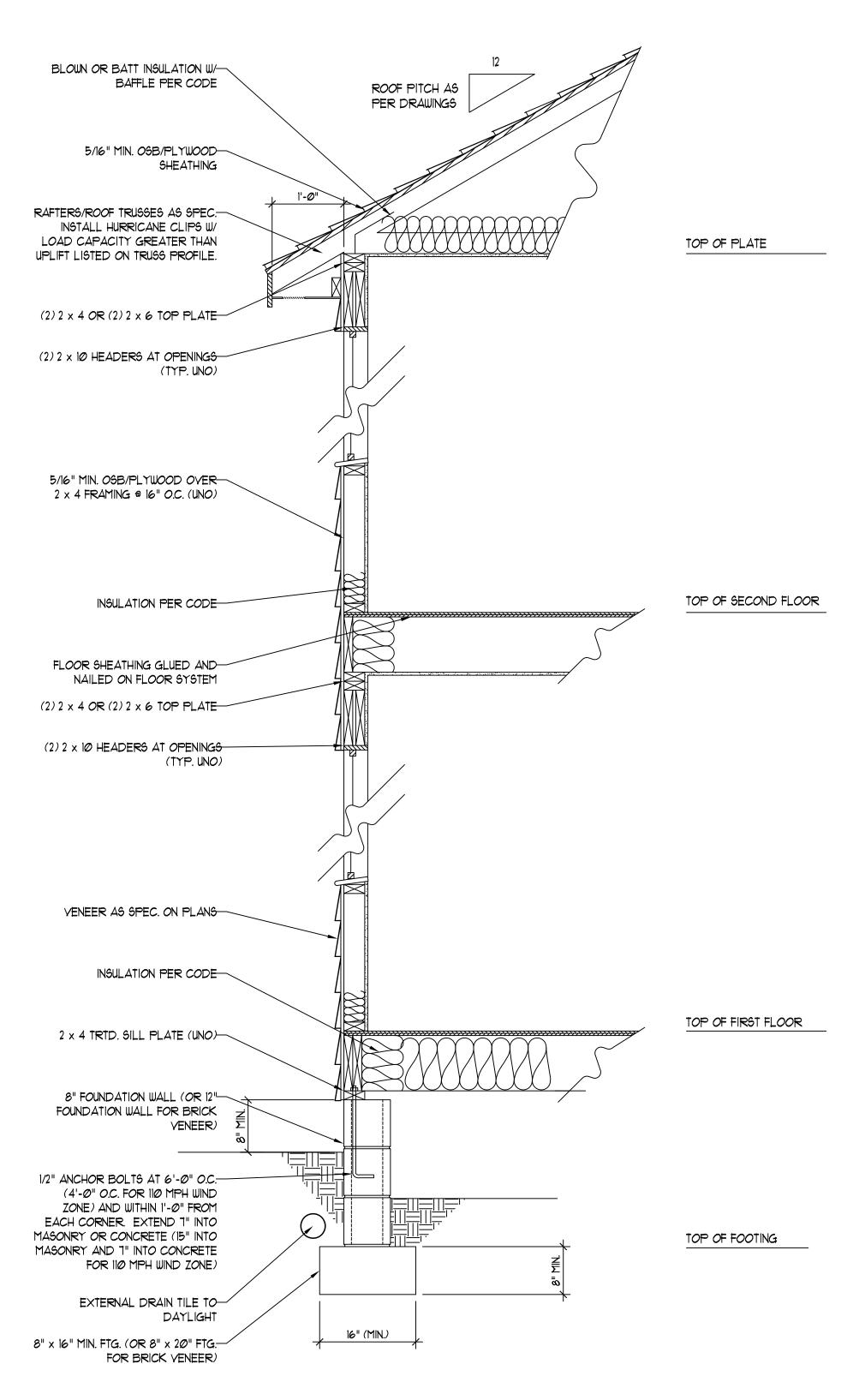
DRAWN BY: WG

ENGINEERED BY: WLF
REVIEWED BY: JES

ROOF PLAN ELEVATION - C

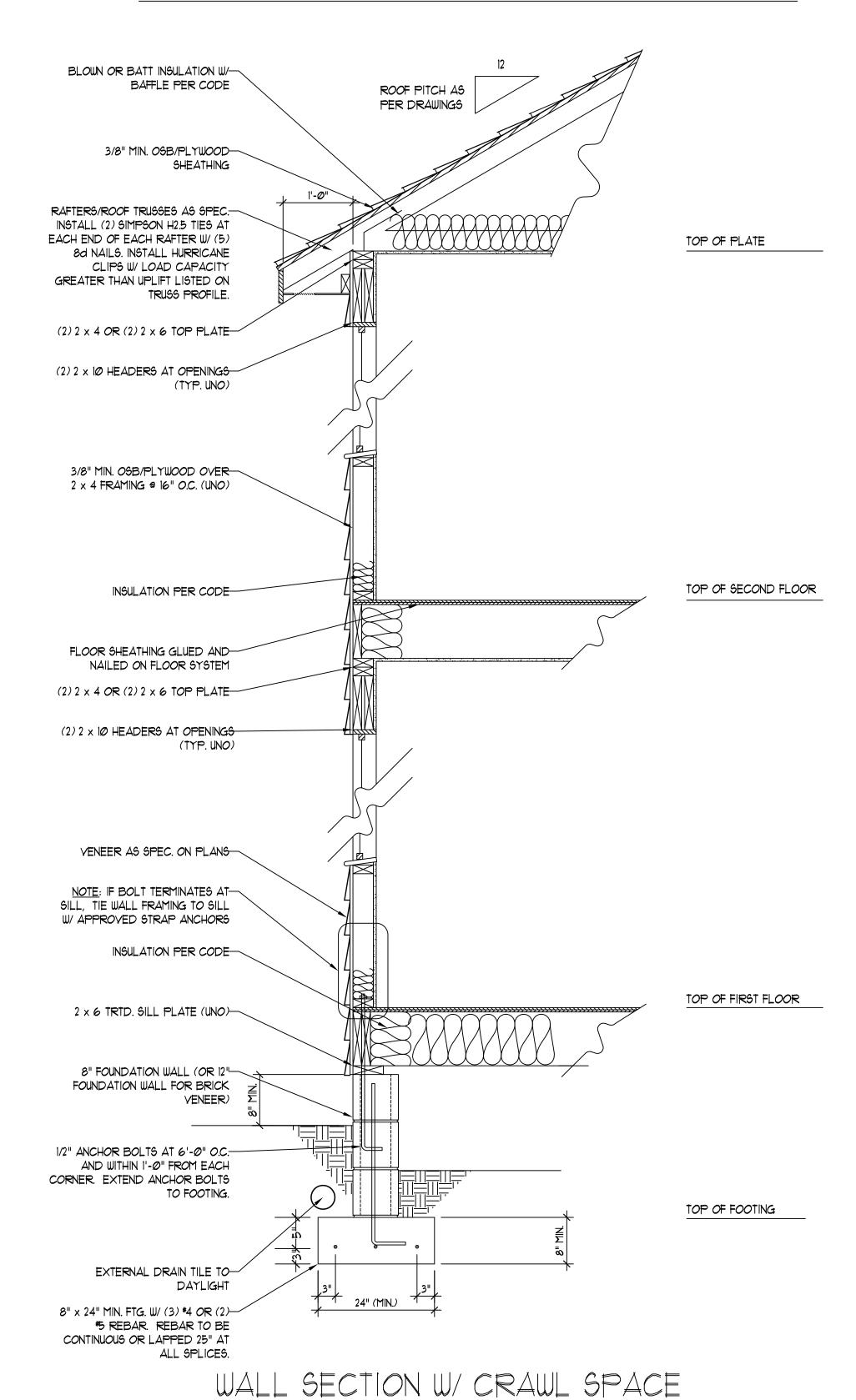
S-4

# 100/110 MPH WIND ZONE



WALL SECTION W/ CRAWL SPACE
W/ STD. SIDING SHOWN (NTS)

## 120/130 MPH WIND ZONE



W/ STD. SIDING SHOWN (NTS)



#### NOTE:

- BUILDER IS TO PROVIDE FRAMING
CONNECTIONS AS REQUIRED BY
CHAPTER 45 ("HIGH WIND ZONES" FOR
IIØ/12Ø/13Ø MPH WINDS) AND CHAPTER
46 (COASTAL AND FLOOD PLAIN
CONSTRUCTION STANDARDS) OF THE
NORTH CAROLINA STATE BUILDING
CODE, 2Ø12 EDITION.

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N.C. LICENSE NO.: C-1733

DETAILS

DATE: JULY 12, 2012

SCALE: NTS

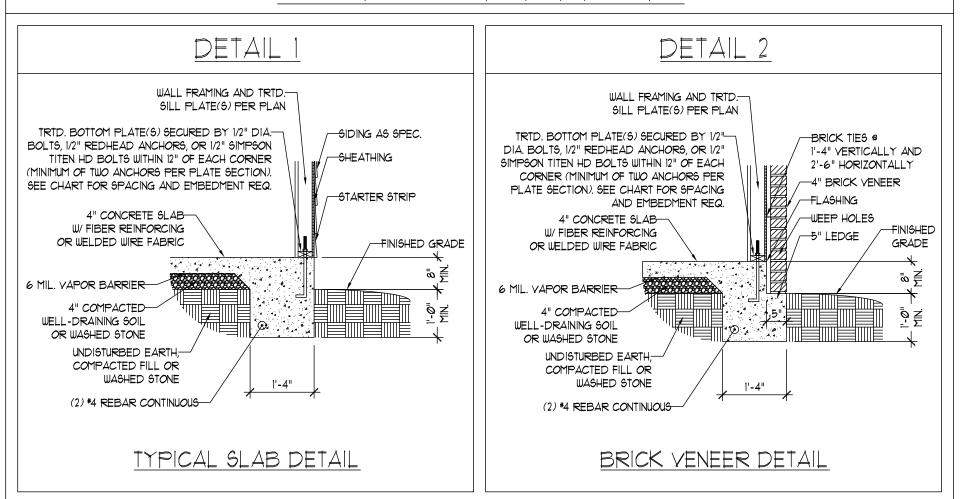
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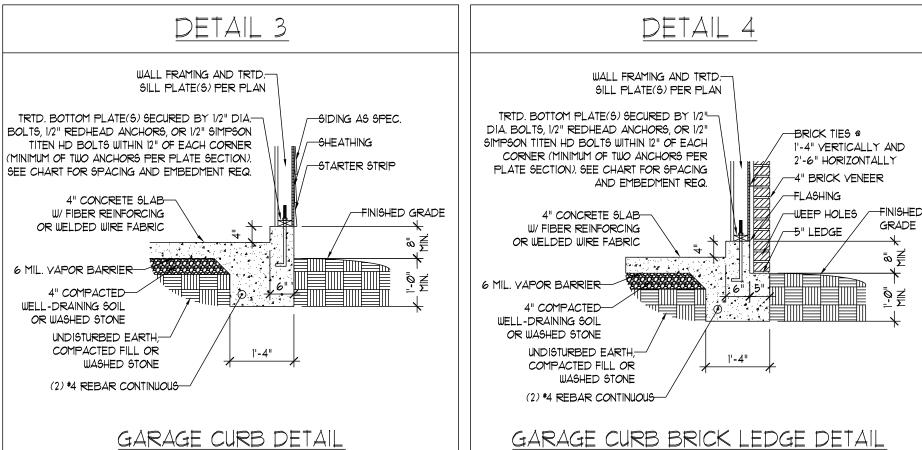
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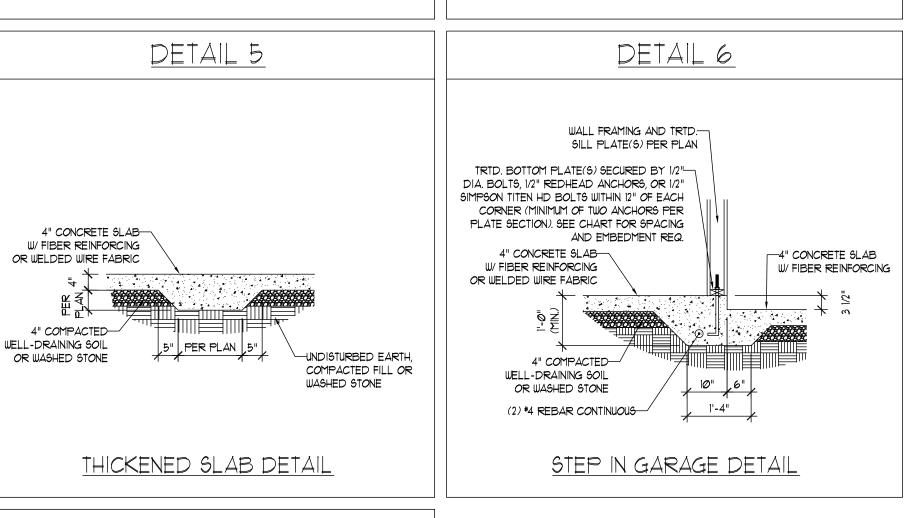
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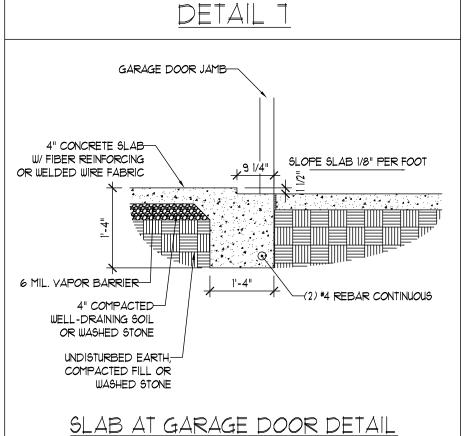
TYPICAL WALL SECTION

### MONOLITHIC SLAB DETAILS









4" CONCRETE SLAB

W/ FIBER REINFORCING

UNDISTURBED EARTH,-

COMPACTED FILL OR

WASHED STONE

(2) #4 REBAR CONTINUOUS-

OR WELDED WIRE FABRIC

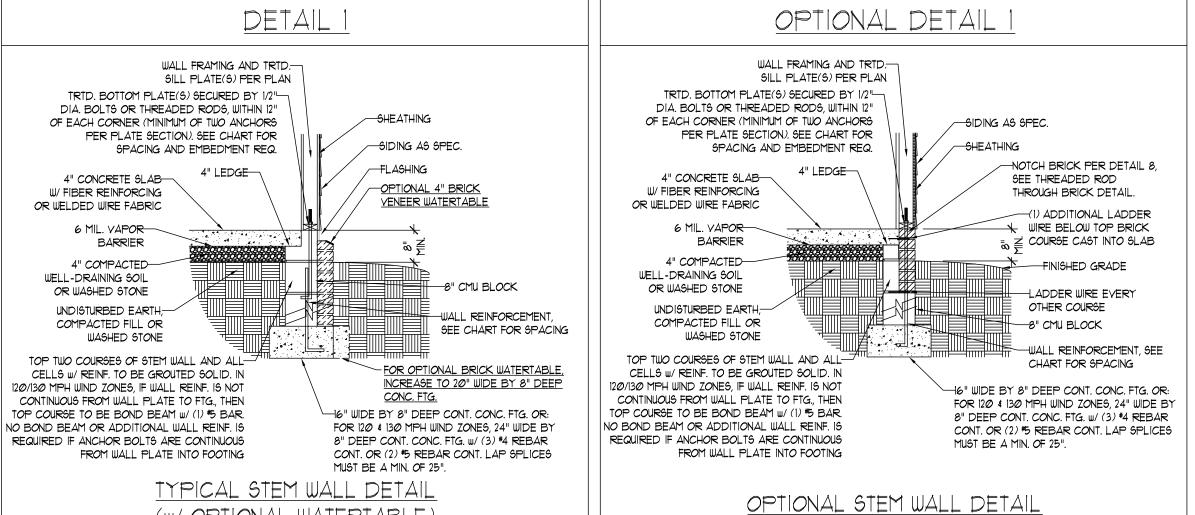
6 MIL. VAPOR BARRIER

WELL-DRAINING SOIL

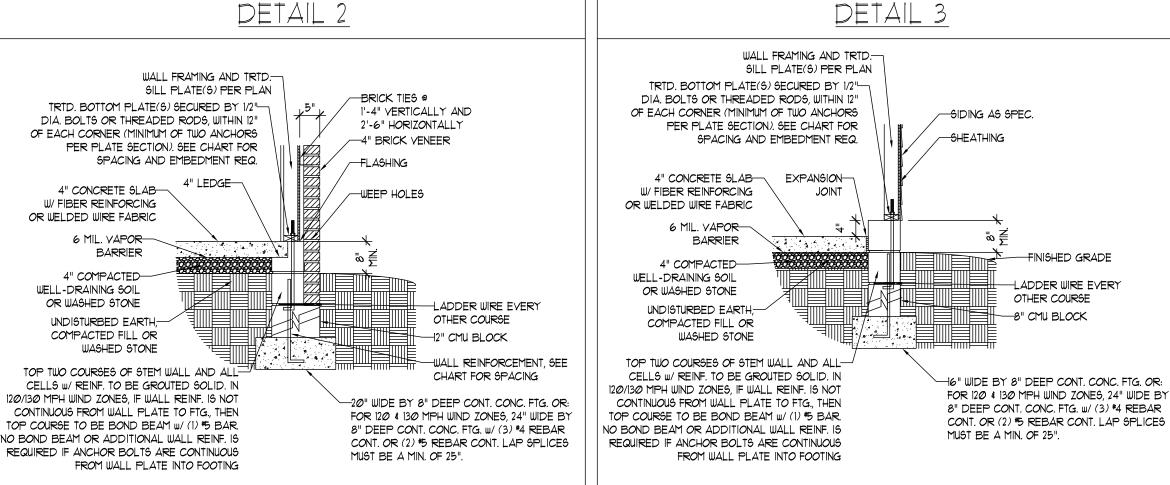
OR WASHED STONE

4" COMPACTED-

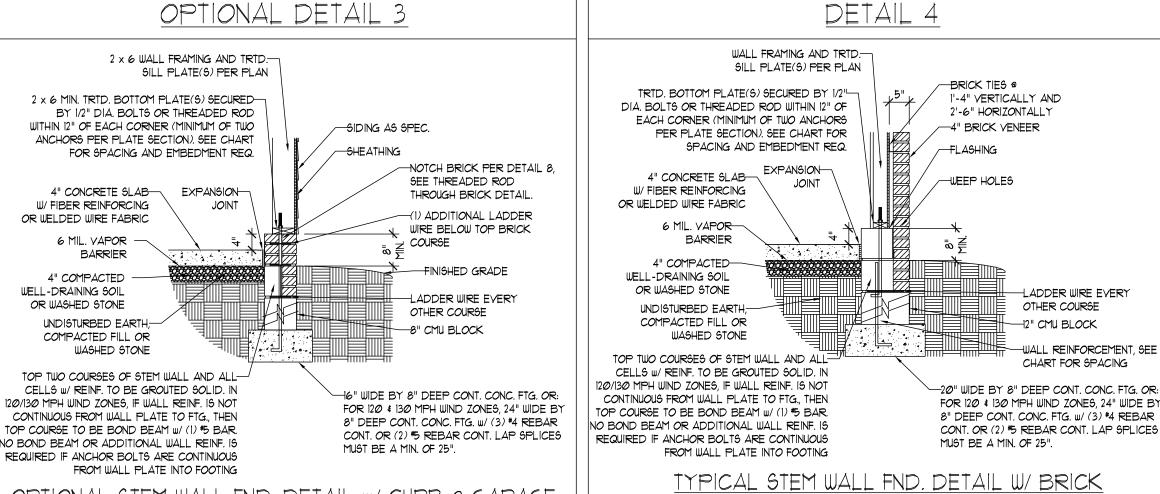
## STEMWALL DETAILS



(w/ OPTIONAL WATERTABLE)



TYPICAL STEM WALL FND. W/ BRICK DETAIL



OPTIONAL STEM WALL FND. DETAIL W/ CURB @ GARAGE

DETAIL 8 1/2" ANCHOR ROD INSIDE EDGE OF MASONRY STEMWALL -- SPACED PER TABLE LADDER WIRE PER DETAIL BRICK MASONRY OUTSIDE EDGE OF BRICK AND STICK FRAMED WALL ABOVE -NOTCH BRICK @ THREADED ROD AND GROUT SOLID -THREADED ROD THROUGH BRICK MASONRY

AND CURB @ GARAGE

TYPICAL STEM WALL FND. DETAIL W/ CURB @ GARAGE

MASONRY STEMWALL SPECIFICATIONS

|                             | WALL HEIGHT<br>(FEET) | MASONRY WALL TYPE                     |                                       |                                       |                                       |
|-----------------------------|-----------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
|                             |                       | 8" CMU                                | 4" BRICK AND 4"<br>CMU                | 4" BRICK AND 8"<br>CMU                | 12" CMU                               |
|                             | 2 AND BELOW           | UNGROUTED                             | GROUT SOLID                           | UNGROUTED                             | UNGROUTED                             |
|                             | 3                     | UNGROUTED                             | GROUT SOLID                           | UNGROUTED                             | UNGROUTED                             |
|                             | 4                     | GROUT SOLID                           | GROUT SOLID w/ *4<br>REBAR @ 48" O.C. | GROUT SOLID                           | GROUT SOLID w/ *4<br>REBAR @ 64" O.C. |
|                             | 5                     | GROUT SOLID w/ *4<br>REBAR @ 36" O.C. | NOT APPLICABLE                        | GROUT SOLID w/ *4<br>REBAR @ 36" O.C. | GROUT SOLID w/ *4<br>REBAR @ 64" O.C. |
|                             | 6                     | GROUT SOLID w/ *4<br>REBAR @ 24" O.C. | NOT APPLICABLE                        | GROUT SOLID w/ *4<br>REBAR @ 24" O.C. | GROUT SOLID w/ *4<br>REBAR @ 64" O.C. |
| 1 AND GREATER ENGINEERED DE |                       |                                       | INEERED DESIGN BA                     | SED ON SITE CONDITI                   | <u>ON6</u>                            |

#### STRUCTURAL NOTES:

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

. TIE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY. 3. CHART APPLICABLE FOR HOUSE FOUNDATION <u>ONLY</u>. CONSULT ENGINEER FOR DESIGN OF GARAGE

FOUNDATION NOT COMMON TO HOUSE. 4. BACKFILL OF CLEAN #57 / #67 WASHED STONE IS ALLOWABLE.

5. BACKFILL OF WELL DRAINED OR SAND - GRAVEL MIXTURE SOILS (45 PSF/FT BELOW GRADE) CLASSIFIED AS GROUP I ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE

WITH TABLE R405.1 OF THE 2012 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE. 6. PREP SLAB PER <u>R506.2.1</u> AND <u>R506.2.2</u> BASE OF THE 2012 INTERNATIONAL RESIDENTIAL CODE. MINIMUM 24" LAP SPLICE LENGTH.

. LOCATE REBAR IN CENTER OF FOUNDATION WALL

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

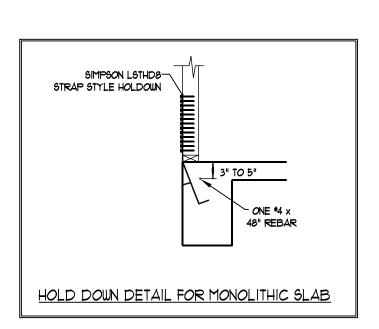
| ANCH      | OR SPACING AND   | EMBEDMENT  |
|-----------|--|--|
| WIND ZONE | 100 MPH  | 110 MPH  |
| SPACING   | 6'-0" O.C.<br>3'-0" O.C. FOR STRAPS  | 4'-0" O.C.<br>2'-0" O.C. FOR STRAPS  |
| EMBEDMENT | 7"   | 15" INTO MASONRY<br>1" INTO CONCRETE   |
| WIND ZONE | 120 MPH  | 130 MPH  |
| SPACING   | 6'-0" O.C. w/ DBL. SILL<br>PLATE OR 4'-0" O.C w/<br>SINGLE SILL PLATE w/<br>2" x 2" x 1/8" WASHERS | 6'-0" O.C. w/ DBL. SILL<br>PLATE OR 4'-0" O.C w/<br>SINGLE SILL PLATE w/<br>2" x 2" x 1/8" WASHERS |
| EMBEDMENT | 15" INTO MASONRY<br>7" INTO CONCRETE   | 15" INTO MASONRY<br>1" INTO CONCRETE   |

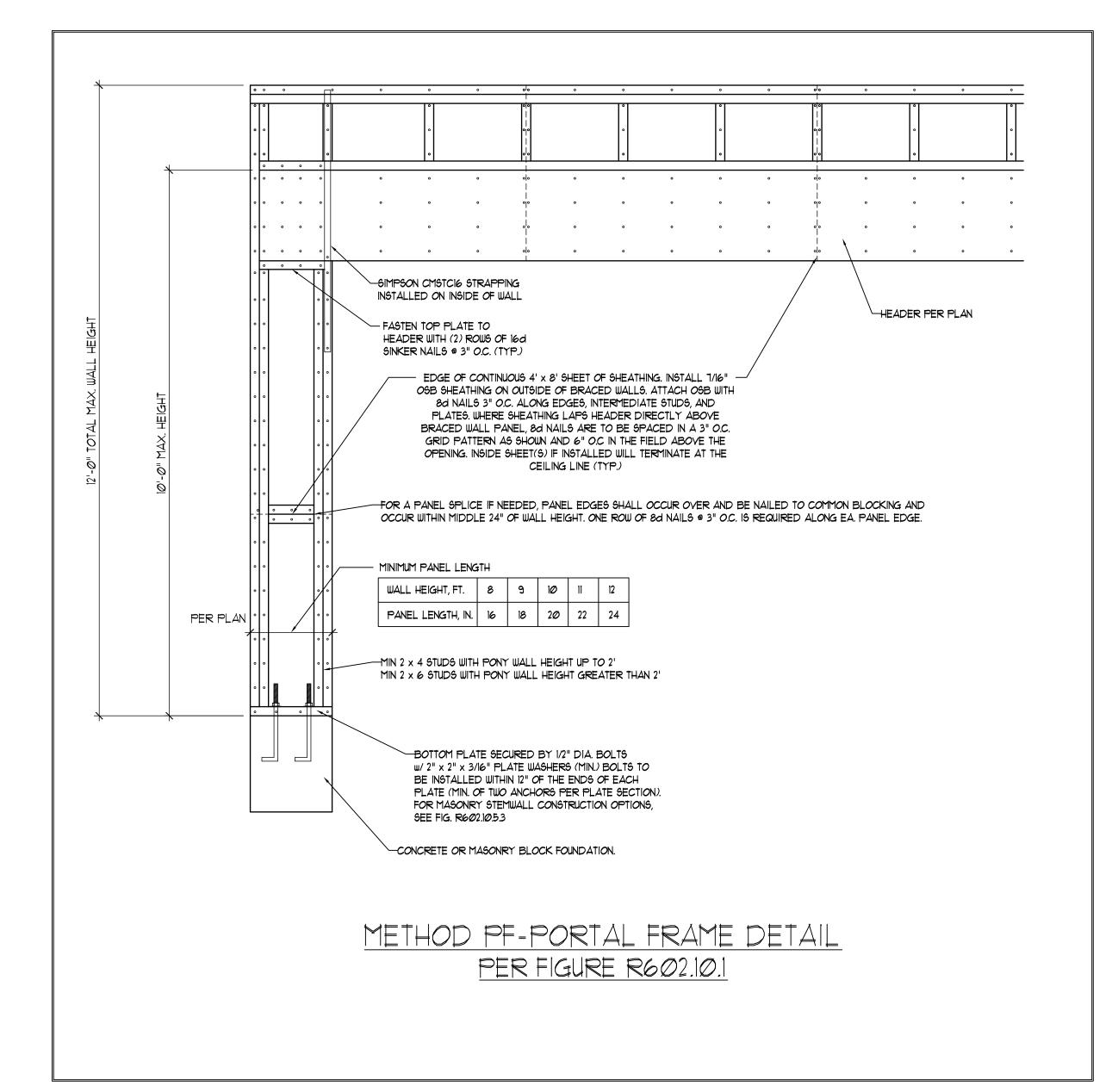
NOTE: HORIZONTAL FOOTING REBAR REQUIRED IN HIGH WIND ZONES ONLY (120 MPH - 130 MPH

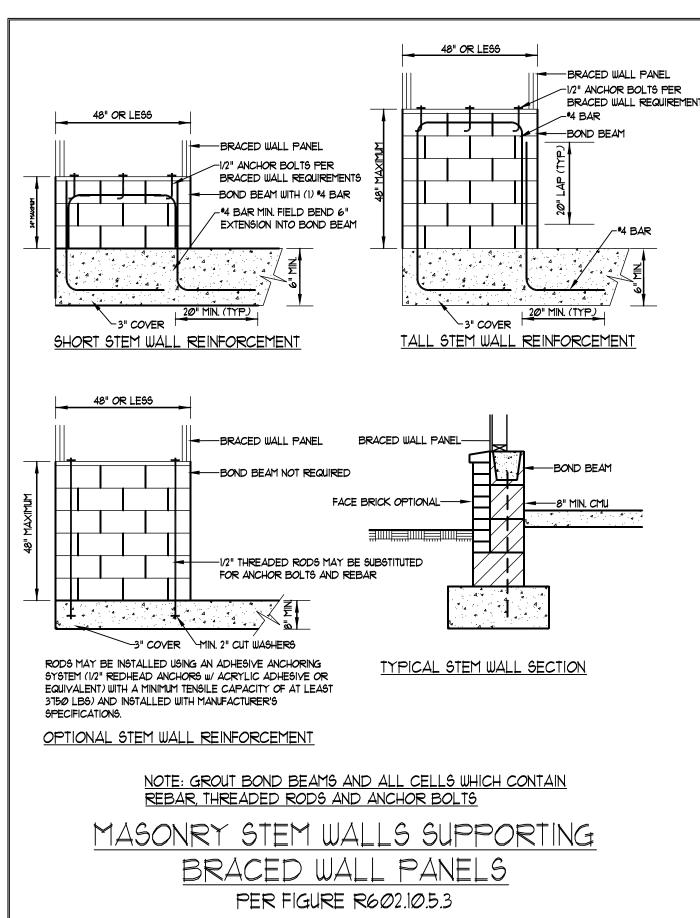


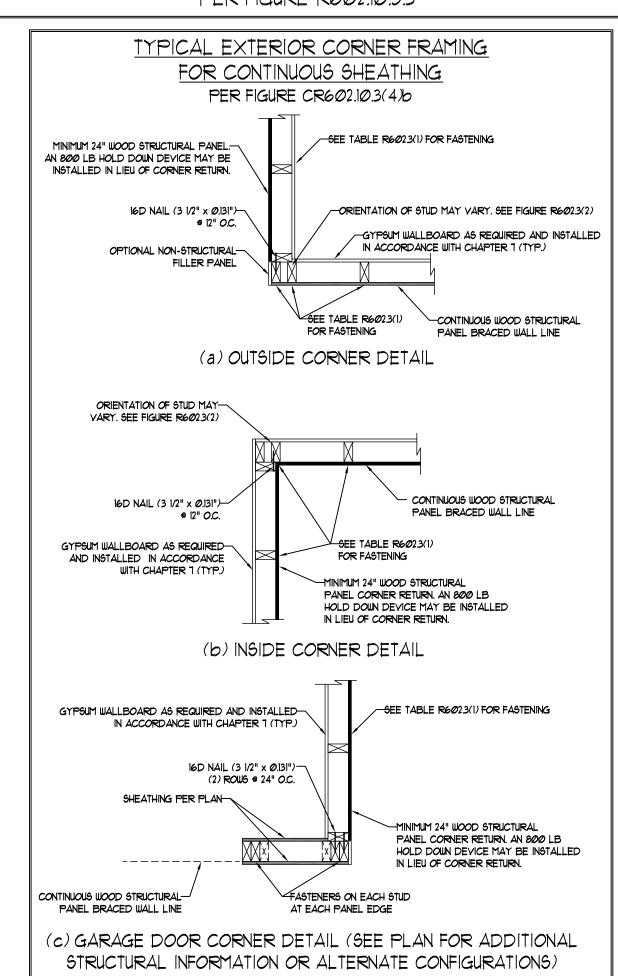
DATE: AUGUST 14, 2015 SCALE: NTS DRAWN BY: JST ENGINEERED BY: JES

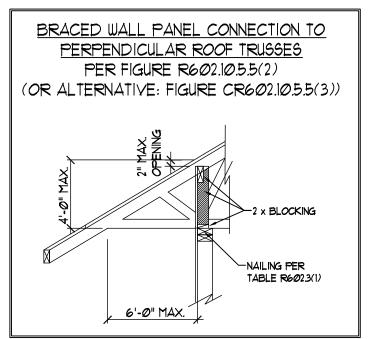
FOUNDATION DETAILS

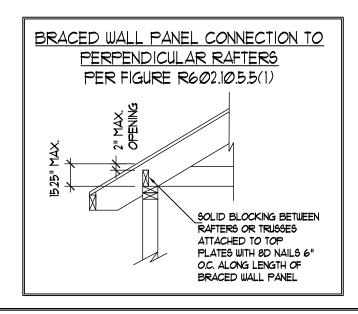


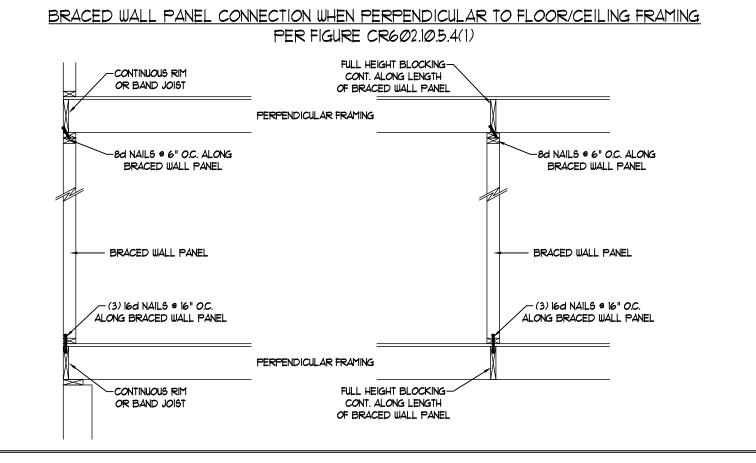




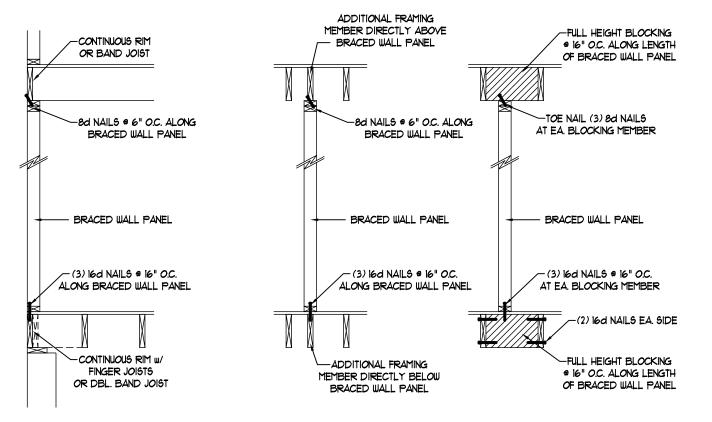








BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING PER FIG. CR602.10.5.4(2)



#### GENERAL WALL BRACING NOTES:

- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2012 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2012 NCRC.
- . SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2012 NORC FOR ADDITIONAL INFORMATION AS NEEDED.
- 3. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS.
- 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE.
- 5. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED. WHEN NOT USING METHOD "GB", GYPSUM
- TO BE FASTENED PER TABLE R102.3.5. METHOD GB TO BE FASTENED PER TABLE R602.10.1 6. CS-WSP REFERS TO THE "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 1/16"

OSB SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED w/6d COMMON NAILS OR 8d (2 1/2"

- LONG × Ø.113" DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (U.N.O.). GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (MIN.) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 7" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (U.N.O.). VERIFY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE RT02.3.5. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R602.3(1). EXTERIOR GB TO BE INSTALLED
- REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602. 10.3. METHOD CS-WSP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES .5 ITS ACTUAL LENGTH, AND METHOD PF CONTRIBUTES 1.5 TIMES ITS ACTUAL LENGTH.



DATE: JULY 25, 2013 SCALE: NONE

DRAWN BY: JST ENGINEERED BY: JST

REVIEWED BY: JES

BRACED WALL NOTES AND DETAILS AND PF DETAIL



#### GENERAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, 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 LAYOUT DESIGN AND ACCURACY.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2012 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2012 EDITION (R301.4 R301.7)

| DESIGN CRITERIA:              | LIVE LOAD (PSF)                                    | DEAD LOAD (PSF) | DEFLECTION (IN) |
|-------------------------------|--|-----------------|-----------------|
| ATTIC WITH LIMITED STORAGE    | 2Ø   | 10              | L/24Ø           |
| ATTIC WITHOUT STORAGE         | 10   | 10              | L/36Ø           |
| DECKS                         | 4Ø   | 10              | L/36Ø           |
| EXTERIOR BALCONIES            | 4Ø   | 10              | L/36Ø           |
| FIRE ESCAPES                  | 4Ø   | 10              | L/36Ø           |
| HANDRAILS/GUARDRAILS          | 200 LB OR 50 (PLF)                                 | 10              | L/36Ø           |
| PASSENGER VEHICLE GARAGE      | 5Ø   | 10              | L/36Ø           |
| ROOMS OTHER THAN SLEEPING ROO | 4Ø   | 10              | L/36Ø           |
| SLEEPING ROOMS                | 3Ø   | 10              | L/360           |
| STAIRS                        | 4Ø   | 10              | L/360           |
| WIND LOAD                     | (BASED ON FIGURE R3Ø1.2(4) WIND ZONE AND EXPOSURE) |                 |                 |
| GROUND SNOW LOAD: Pg          | 2Ø (PSF)   |                 |                 |
|                               |  |                 |                 |

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD
- FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- 4. FOR 90 AND 100 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.1.6 OF THE NCRC, 2012 EDITION. FOR 110 MPH, 120 MPH, AND 130 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2012 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NCRC, 2012

#### FOOTING AND FOUNDATION NOTES

- 1. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE 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 UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL 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 IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC, 2012 EDITION.
- 3. PROPERLY DEWATER EXCAYATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" - 1" DEEP CONTROL JOINTS ARE TO BE SAWED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NCRC, 2012 EDITION, CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A185. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN I 1/2" FOR #5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR #6 BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL COMFORM TO ASTM C270.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION 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.
- 7. 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 NCRC, 2012 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 530/A6CE 5/TM6 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.(1), R404.1.(2), R404.1.(3), OR R404.1.(4) OF THE NCRC, 2012 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.(5) OF THE NCRC, 2012 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

#### FRAMING NOTES

- ALL FRAMING LUMBER SHALL BE #2 SPF MINIMUM (Fb = 875 PSI, F∨ = 375 PSI, E = 16*00000* PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE #2 SYP MINIMUM (Fb = 975 PSI, Fv = 175 PSI, E = 16000000 PSI) UNLESS NOTED OTHERWISE (UNO).
- LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb =2600 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (L6L) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F6 = 2325 PSI, FV = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E = 1800000 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: CHANNELS AND ANGLES: ASTM A36 ASTM A36 PLATES AND BARS: HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B ASTM A53, GRADE B, TYPE E OR S STEEL PIPE:

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING, LENGTH OF 3 1/2" 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 FOLLOWS (UNO):

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

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM w/ (2) ROWS OF SELF TAPPING SCREWS @ 16" O.C. OR (2) ROWS OF 1/2" DIAMETER BOLTS @ 16" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED W/ (2) ROWS OF 9/16" DIAMETER HOLES @ 16" O.C.

- 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 R502.5(1) AND R502.5(2) OF THE NCRC, 2012 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH END (UNO), WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO).
- 1. ALL BEAMS, 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 BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE I 1/2" MINIMUM BEARING (UNO). ALL BEAMS 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 1/2" DIAMETER BOLTS (ASTM A3Ø1) 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 LOCATED AT 6" FROM EACH END (UNO).
- 9. ALL 1-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 10. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE CURRENT NORTH CAROLINA RESIDENTIAL CODE WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R602.10.
- II. PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR 1-JOISTS PER MANUFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- 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" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT. FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO HEADER WITH 1/2" LAG. SCREWS AT 12" O.C. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO 2 x 10 BLOCKING INSTALLED BETWEEN WALL STUDS WITH 1/2" LAG. SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION RT03.7.2.2 OF THE NCRC, 2012 EDITION.
- 13. 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 ROWS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (UNO).
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH  $2 \times 8$  RIDGES,  $2 \times 6$  RAFTERS AT 16" O.C. AND FLAT  $2 \times 10$  VALLEYS (UNO).
- 15. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON HG OR LTG12 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON CS16 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.



DATE: AUGUST 27, 2013 SCALE: N/A

ENGINEERED BY: JES

DRAWN BY: JES

REVIEWED BY: JST

STRUCTURAL

NOTES

