

FRONT ELEVATION 7
SCALE: 1/8" = 1'-0"



REAR ELEVATION 7
SCALE: 1/8" = 1'-0"

CHANGE	DATE
X	X
X	X
X	X
X	X
X	X
X	X
X	X

SUBDIVISION:
OLDE MILL VILLAGE (NC/RAL)
LOT 00.0063 PHASE

Lot Address:
207 MILL BEND DRIVE FUGUAY
VARINA, NC 271526

DRAWN BY:
ITS

DATE: 01/26/2021

HOUSE ORIENTATION:
GARAGE RIGHT

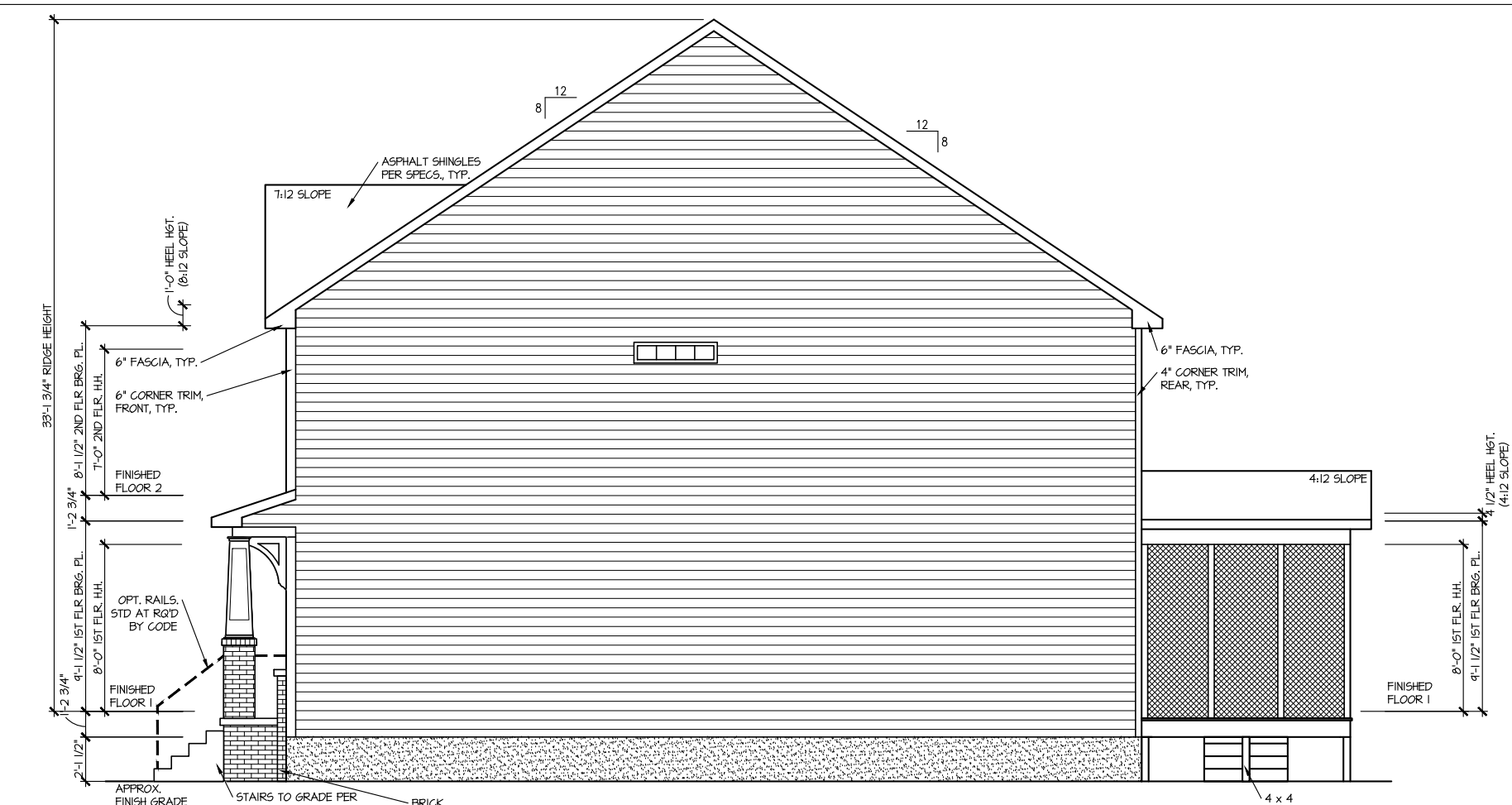
PLAN REVISION:
RALE-3

DAN RYAN BUILDERS
2095 GAITHER ROAD, SUITE 600
ROCKVILLE, MARYLAND 20850
(301) 996-0200 | www.danryanbuilders.com

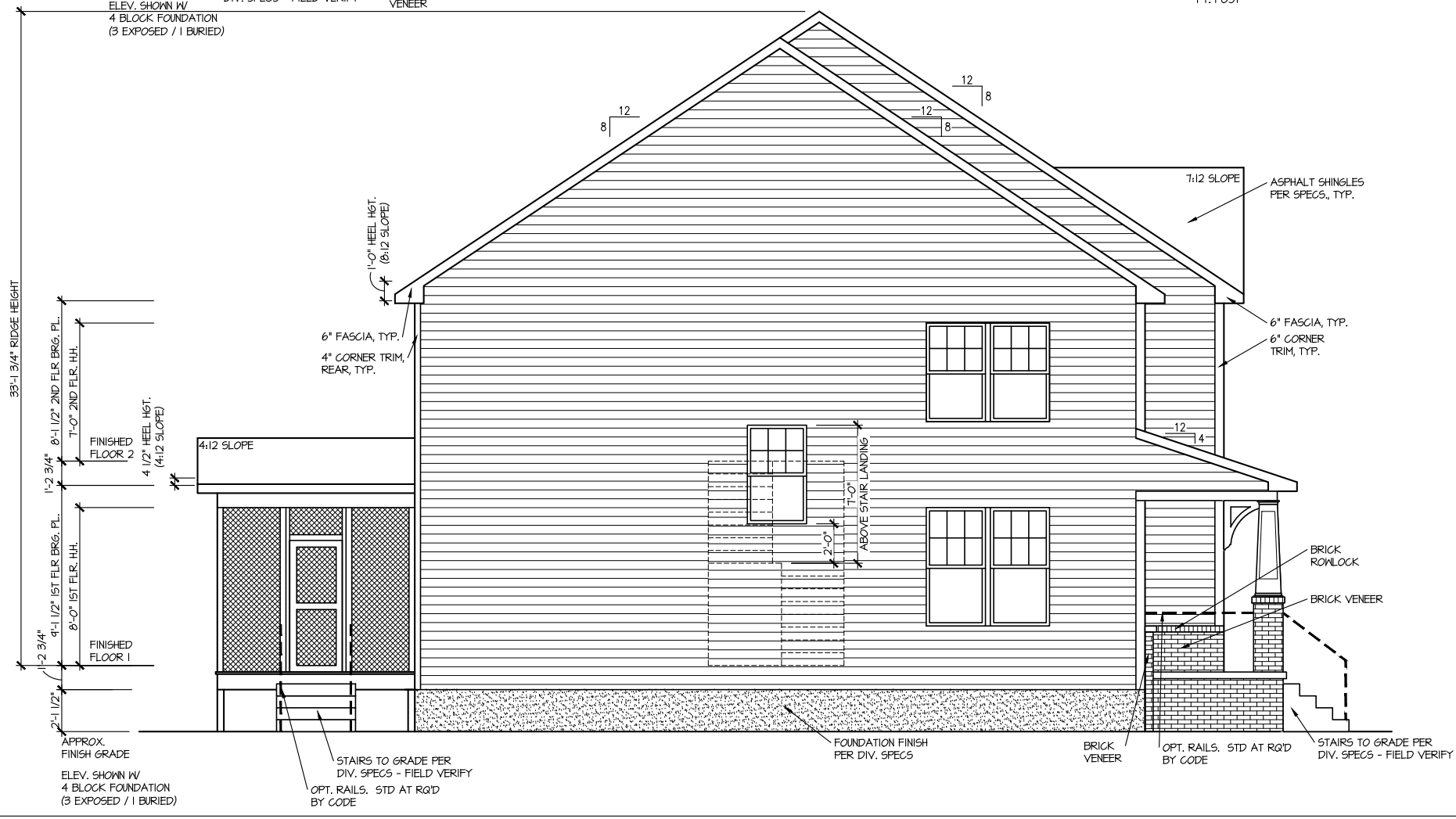
HOUSE NAME:
1615-DEVON

DRAWING TITLE
FRONT & REAR ELEVATIONS

SHEET No.
A.1



RIGHT ELEVATION 7
SCALE: 1/8" = 1'-0"



LEFT ELEVATION 7
SCALE: 1/8" = 1'-0"

FILE: Lot_00.0063.dwg DATE: 1/26/2021 4:25 PM

CHANGE	DATE
X	X
X	X
X	X
X	X
X	X
X	X

SUBDIVISION:
OLDE MILL VILLAGE (NC/RAL)
LOT 00.0063 PHASE

Lot Address:
207 MILL BEND DRIVE FUGUAY
VARINA, NC 271526

DRAWN BY:
ITS

DATE: 01/26/2021

HOUSE ORIENTATION:
GARAGE RIGHT

PLAN REVISION:
RALE-3

DAN RYAN BUILDERS
2095 GAITHER ROAD, SUITE 600
ROCKVILLE, MARYLAND 20850
(301) 996-0200 | www.danryanbuilders.com

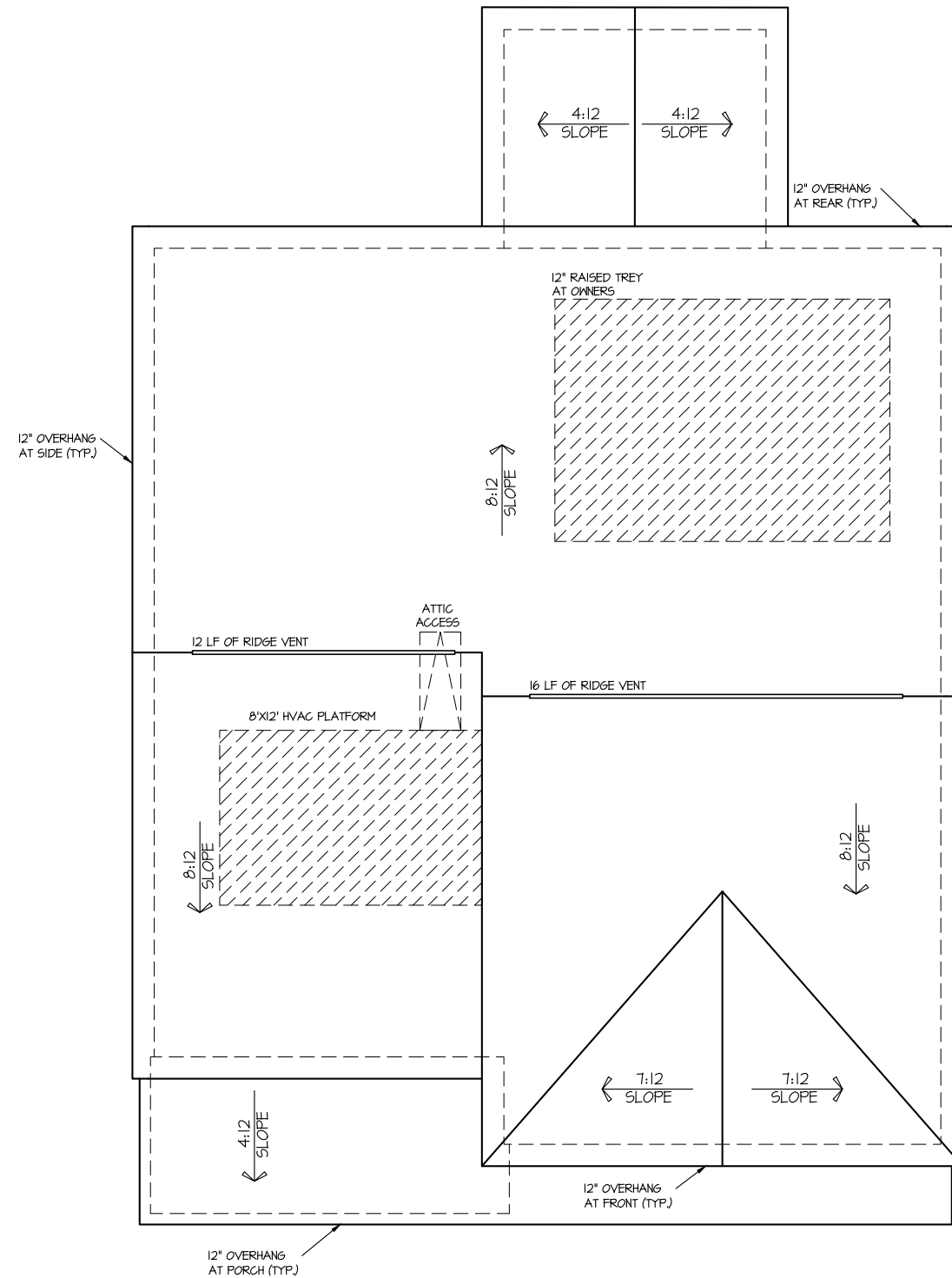
HOUSE NAME:
1615-DEVON

DRAWING TITLE
RIGHT & LEFT ELEVATIONS

SHEET No.
A1.2

ROOF VENTILATION CALCULATIONS:

ROOF AREA = 1412 SQ. FT.
OVERALL REQUIRED VENTILATION:
 1 TO 150 = 4.41 SQ. FT.
 1 TO 300 = 4.17 SQ. FT.
 50-80% IN TOP THIRD = 2.35 - 3.76 FT. (1 TO 300)
 NET FREE AREA OF VENTED SOFFIT = 5.7 SQ. IN. / LINEAR FT.
 NET FREE AREA OF RIDGE VENT = 18 SQ. IN. / LINEAR FT.
LOWER VENTING: (BOTTOM 2/3 RDS)
 51 LINEAR FEET OF SOFFIT X 5.7 SQ. IN. = 2.00' SQ. FT.
UPPER VENTING: (TOP 1/3 RD)
 34 LINEAR FEET OF RIDGE X 18 SQ. IN. = 4.25 SQ. FT.
 4.25 SQ. FT. BETWEEN 50% - 80%
 (1 TO 300 ALLOWED)
 TOTAL ROOF VENTILATION: 6.25 SQ. FT. > 4.17 SQ. FT. (REQ'D)



ROOF PLAN ELEV. 1

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

DATE	CHANGE
X	X
X	X
X	X
X	X
X	X
X	X
X	X

SUBDIVISION:
 OLDE MILL VILLAGE (NC/RAJ)
 LOT 00.00663 PHASE

Lot Address:
 207 MILL BEND DRIVE FUGUAY
 VARINA, NC 27526

DRAWN BY:
 ITS

DATE: 01/26/2021

HOUSE ORIENTATION:
 GARAGE RIGHT

PLAN REVISION:
 RALE-3

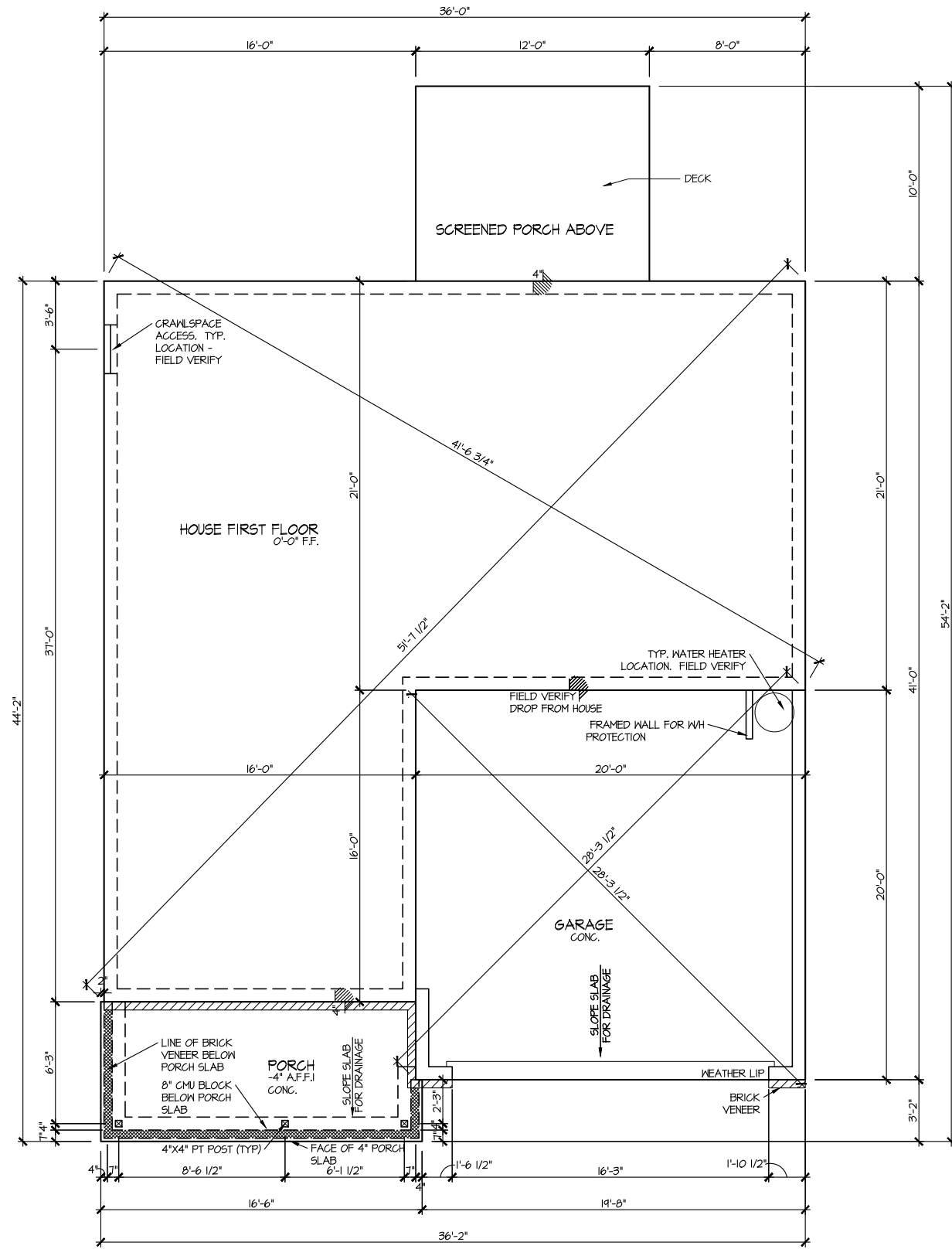
DAN RYAN BUILDERS
 2095 GAITHER ROAD, SUITE 600
 ROCKVILLE, MARYLAND 20850
 (301) 696-0200 | www.danryanbuilders.com

HOUSE NAME:
 1615-DEVON

DRAWING TITLE:
 ROOF PLAN

SHEET No.
 A13

CRAWL AREA = 1012 SQ. FT.
 OVERALL REQUIRED VENTILATION:
 1 TO 150 = 6.7 SQ. FT.
 NET FREE AREA OF VENT = 62 SQ. IN PER VENT
 WITTEN AUTOMATIC VENT B-EBLACK (MB) OR EQUAL
 VENTING REQUIREMENT:
 9.4 SQ. FT. / 62 SQ. IN = 15.66 VENTS = 16 VENTS



ELEVATION 7
 CRAWL SPACE PLAN
 SCALE: 1/8" = 1'-0"

CHANGE	DATE
X	X
X	X
X	X
X	X
X	X
X	X
X	X
X	X
X	X
X	X

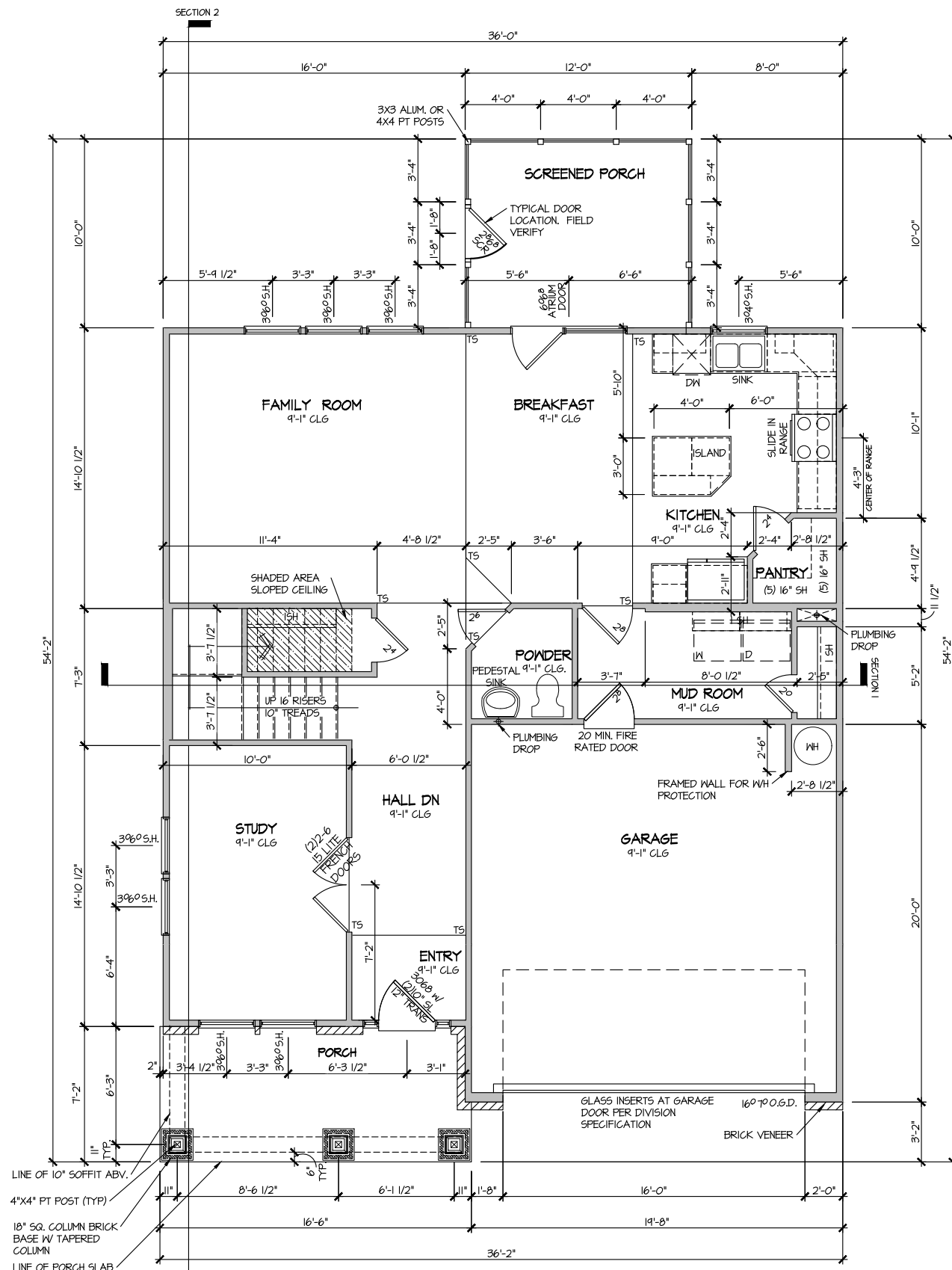
SUBDIVISION:
 OLDE MILL VILLAGE (NC/RAL)
 LOT 00.0063 PHASE
 Lot Address:
 207 MILL BEND DRIVE FUGUAY
 VARINA, NC 271526

DRAWN BY:
 ITS
 DATE: 01/26/2021
 HOUSE ORIENTATION:
 GARAGE RIGHT
 PLAN REVISION:
 RALE-3

DAN RYAN BUILDERS
 2099 GATHER ROAD, SUITE 600
 ROCKVILLE, MARYLAND 20850
 (301) 696-0200 | www.danryanbuilders.com

HOUSE NAME:
 1615-DEVON
 DRAWING TITLE
 CRAWL SPACE PLAN

SHEET No.
 A2.1



**ELEVATION 7
FIRST FLOOR PLAN**

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

LINE OF 10' SOFFIT ABV.
4"X4" PT POST (TYP)
18" SQ COLUMN BRICK
BASE W/ TAPERED
COLUMN
LINE OF PORCH SLAB

CHANGE	DATE
X	X
X	X
X	X
X	X
X	X
X	X
X	X

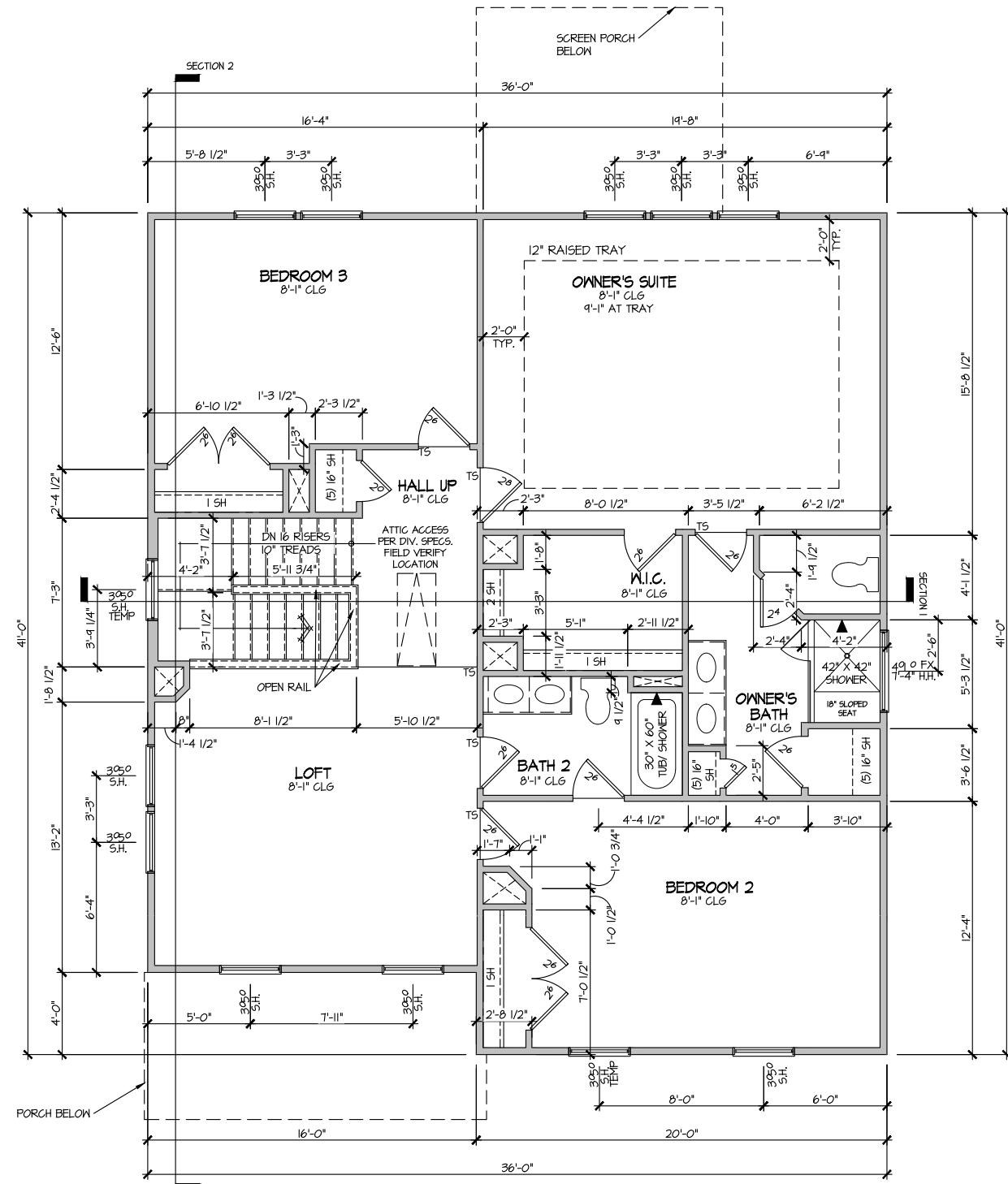
SUBDIVISION:
OLDE MILL VILLAGE (NC/RAL)
LOT 00.0063 PHASE
Lot Address:
207 MILL BEND DRIVE FUGUAY
VARINA, NC 27526

DRAWN BY:
ITS
DATE: 01/26/2021
HOUSE ORIENTATION:
GARAGE RIGHT
PLAN REVISION:
RALE-3



HOUSE NAME:
1615-DEVON
DRAWING TITLE
FIRST FLOOR PLAN

SHEET No.
A3.1



ELEVATION 7
 SECOND FLOOR PLAN
 SCALE: 1/8" = 1'-0"

DATE	CHANGE
X	X
X	X
X	X
X	X
X	X
X	X

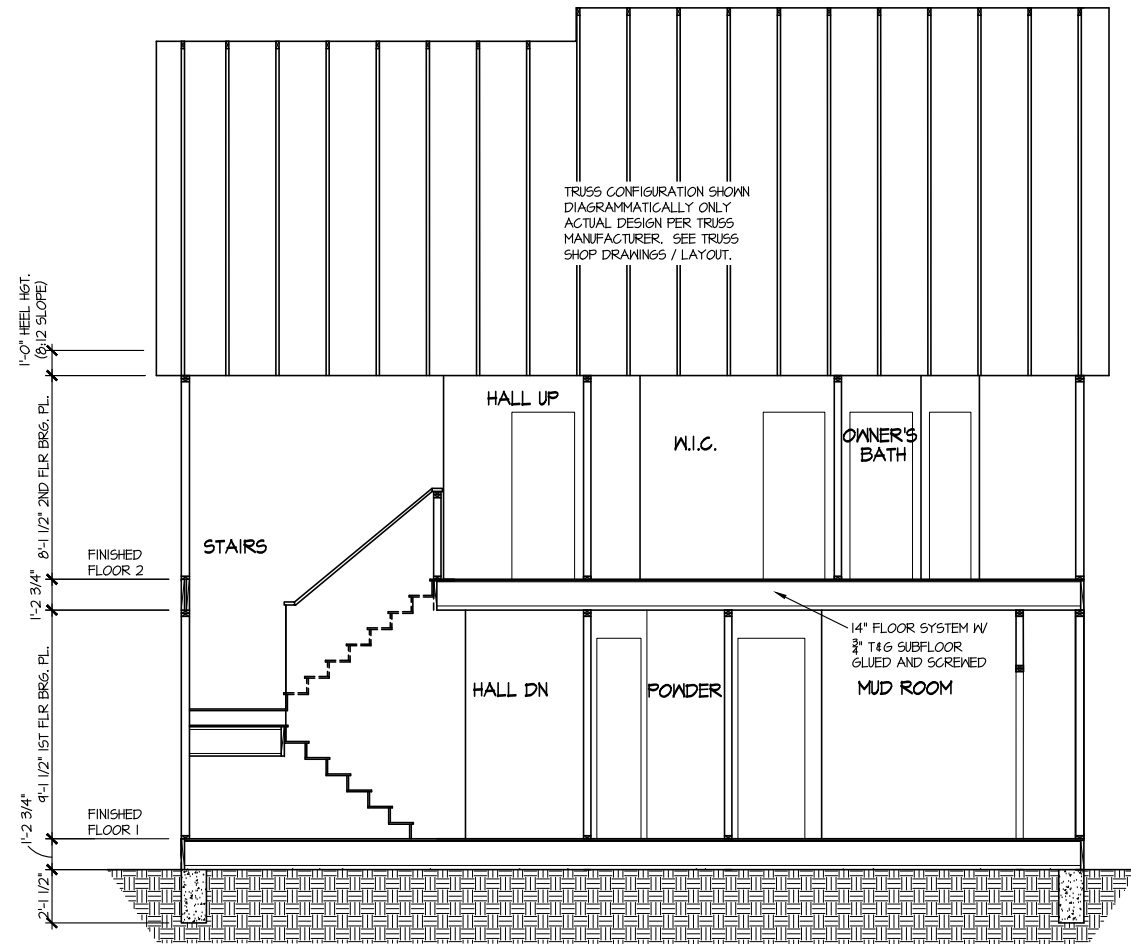
SUBDIVISION:
 OLDE MILL VILLAGE (NO/RAL)
 LOT 00.0063 PHASE
 Lot Address:
 207 MILL BEND DRIVE FUGUAY
 VARINA, NC 27526

DRAWN BY:
 ITS
 DATE: 01/26/2021
 HOUSE ORIENTATION:
 GARAGE RIGHT
 PLAN REVISION:
 RALE-3

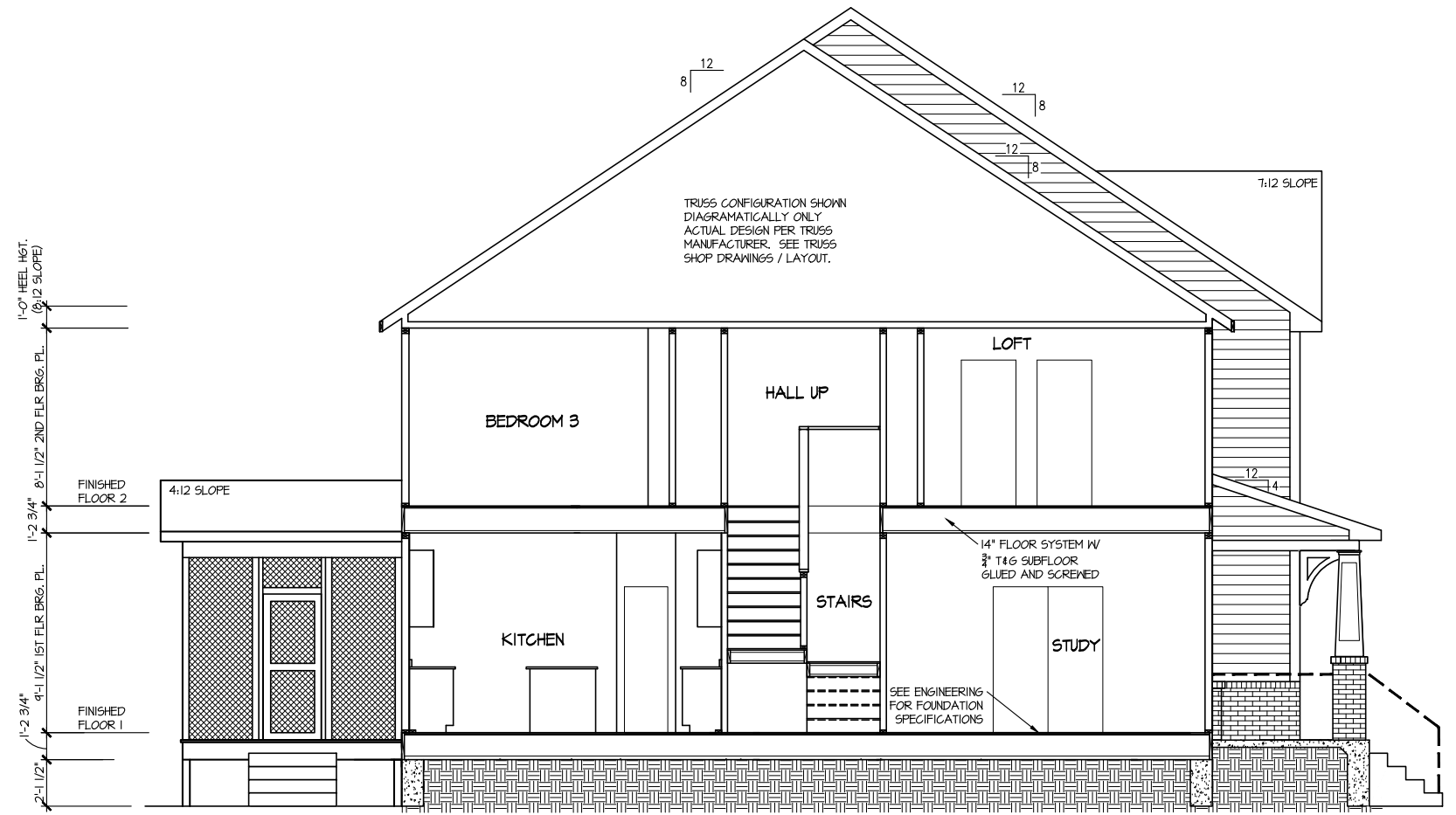
DAN RYAN BUILDERS
 2995 GATHER ROAD, SUITE 600
 ROCKVILLE, MARYLAND 20850
 (301) 896-0200 | www.danryanbuilders.com

HOUSE NAME:
 1615-DEVON
 DRAWING TITLE
 SECOND FLOOR PLAN

SHEET No.
 A3.2



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



SECTION 2
SCALE: 1/8" = 1'-0"

DATE	CHANGE
X	X
X	X
X	X
X	X
X	X
X	X
X	X

SUBDIVISION: OLDE MILL VILLAGE (NC/RAL)
LOT 00.0063 PHASE
Lot Address: 207 MILL BEND DRIVE FUGUAY
VARINA, NC 27526

DRAWN BY: ITS
DATE: 01/26/2021
HOUSE ORIENTATION: GARAGE RIGHT
PLAN REVISION: RALE-3

DAN RYAN BUILDERS
2095 GAITHER ROAD, SUITE 600
ROCKVILLE, MARYLAND 20850
(301) 696-0200 | www.danryanbuilders.com

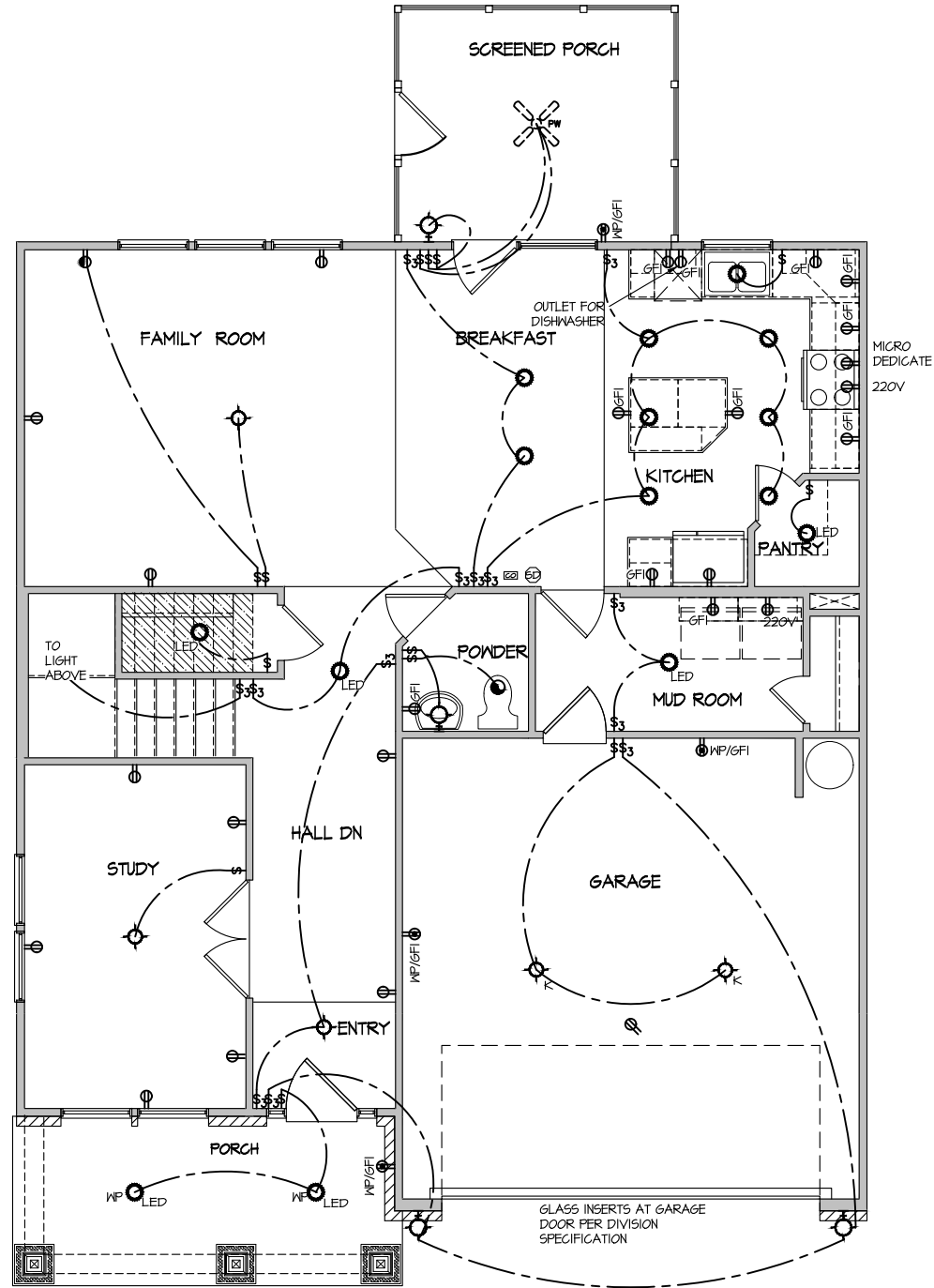
HOUSE NAME: 1615-DEVON
DRAWING TITLE: BUILDING SECTION

SHEET No. A4.1

ELECTRICAL LEGEND

- ⊕ SINGLE POLE SWITCH
- ⊕₃ THREE WAY SWITCH
- ⊕₄ FOUR WAY SWITCH
- ⊕-⊕ DUPLEX AFCI RECEPTACLE
- ⊕-⊕ DUPLEX AFCI RECEPTACLE - BOTTOM HALF SWITCHED
- ⊕-⊕ DUPLEX AFCI RECEPTACLE - FLOOR MOUNTED
- 220V ⊕ RECEPTACLE - 220V
- ⊕-⊕ DUPLEX AFCI RECEPTACLE - GFI
- WP/GFI ⊕-⊕ DUPLEX AFCI RECEPTACLE - WATERPROOF GFI
- ⊕ SMOKE DETECTOR - WIRED IN SERIES
- ⊕ EXHAUST FAN MOTOR
- ⊕ CO DETECTOR
- ⊕ DOOR CHIME
- ⊕ LIGHT FIXTURE - WALL MOUNTED
- ⊕ LIGHT FIXTURE - CEILING MOUNTED
- ⊕ LIGHT FIXTURE - RECESSED CAN
- ⊕ LED LIGHT FIXTURE - LED SURFACE MOUNTED
- ⊕ P FULLCHAIN LAMPHOLDER
- ⊕ K KEYLESS LAMPHOLDER

NOTE: ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, THE LOCAL POWER COMPANY AND TO ALL APPLICABLE LOCAL REGULATIONS.



**ELECTRICAL PLAN
FIRST FLOOR - ELEV. 1**

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

CHANGE	DATE
X	X
X	X
X	X
X	X
X	X
X	X
X	X

SUBDIVISION:
OLDE MILL VILLAGE (NC/RAL)
LOT 00.0063 PHASE

Lot Address:
207 MILL BEND DRIVE FUGUAY
VARRINA, NC 271526

DRAWN BY:
ITS

DATE: 01/26/2021

HOUSE ORIENTATION:
GARAGE RIGHT

PLAN REVISION:
RALE-3

**DAN RYAN
BUILDERS**

2699 GAITHER ROAD, SUITE 600
ROCKVILLE, MARYLAND 20850
(301) 696-0200 | www.danryanbuilders.com

HOUSE NAME:
1615-DEVON

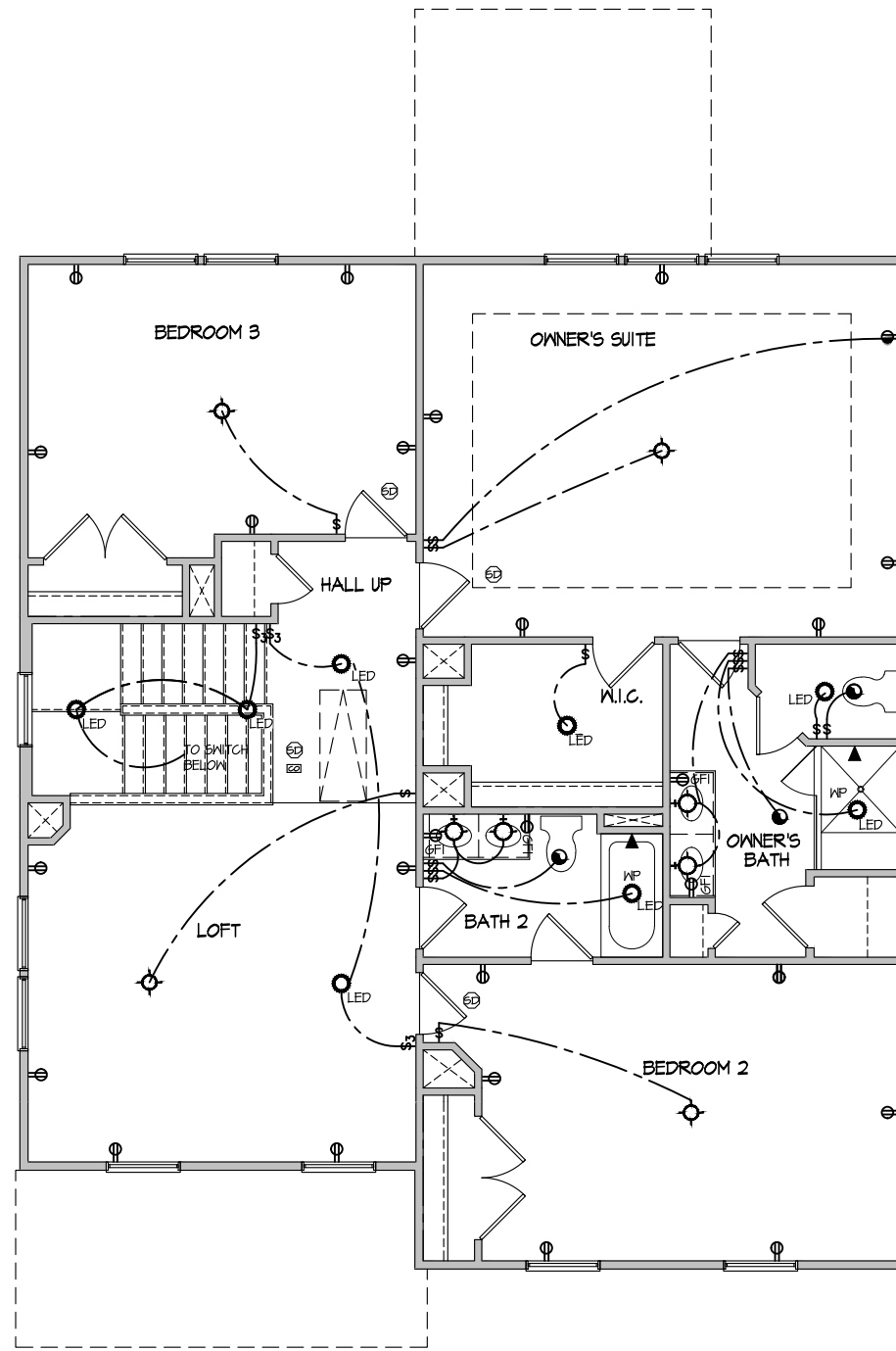
DRAWING TITLE
FIRST FLOOR ELECTRICAL

SHEET No.
E.1

ELECTRICAL LEGEND

- Ⓢ SINGLE POLE SWITCH
- Ⓢ₃ THREE WAY SWITCH
- Ⓢ₄ FOUR WAY SWITCH
- ⓈⓈ DUPLEX AFCI RECEPTACLE
- ⓈⓈ_B DUPLEX AFCI RECEPTACLE - BOTTOM HALF SWITCHED
- ⓈⓈ_F DUPLEX AFCI RECEPTACLE - FLOOR MOUNTED
- 220V Ⓢ RECEPTACLE - 220V
- ⓈⓈⓈ DUPLEX AFCI RECEPTACLE - GFI
- WP/GFI ⓈⓈ DUPLEX AFCI RECEPTACLE - WATERPROOF GFI
- ⓈⓈⓈ SMOKE DETECTOR - WIRED IN SERIES
- ⓈⓈⓈ EXHAUST FAN MOTOR
- ⓈⓈⓈ CO DETECTOR
- ⓈⓈⓈ DOOR CHIME
- ⓈⓈⓈ LIGHT FIXTURE - WALL MOUNTED
- ⓈⓈⓈ LIGHT FIXTURE - CEILING MOUNTED
- ⓈⓈⓈ LIGHT FIXTURE - RECESSED CAN
- ⓈⓈⓈ LED LIGHT FIXTURE - LED SURFACE MOUNTED
- ⓈⓈⓈ_P FULLCHAIN LAMPHOLDER
- ⓈⓈⓈ_K KEYLESS LAMPHOLDER

NOTE: ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, THE LOCAL POWER COMPANY AND TO ALL APPLICABLE LOCAL REGULATIONS.



**ELECTRICAL PLAN
SECOND FLOOR - ELEV. 7**

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

CHANGE	DATE
X	X
X	X
X	X
X	X
X	X
X	X
X	X

SUBDIVISION:
OLDE MILL VILLAGE (NC/RAL)
LOT 00.0063 PHASE

Lot Address:
207 MILL BEND DRIVE FUGUAY
VARRINA, NC 271526

DRAWN BY:
ITS

DATE: 01/26/2021

HOUSE ORIENTATION:
GARAGE RIGHT

PLAN REVISION:
RALE-3

DAN RYAN BUILDERS
2095 GAITHER ROAD, SUITE 600
ROCKVILLE, MARYLAND 20850
(301) 996-0200 | www.danryanbuilders.com

HOUSE NAME:
1615-DEVON

DRAWING TITLE
SECOND FLOOR ELECTRICAL

SHEET No.
E.2



3/17/2021

SCALE NOTE:
LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.
11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

NOTE:
BCI 5000s-13 JOISTS MAY BE USED IN LIEU OF TJI 210 JOISTS AT THE DEPTH AND SPACING NOTED ON THE PLANS.

- 120 MPH ULTIMATE DESIGN WIND SPEED**
NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:
- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM.
 - STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2008 EDITION.
 - INSTALL 1/2" ANCHOR BOLTS @ 6'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 1' INTO MASONRY OR CONCRETE. LOCATE BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH.
 - MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
 - EXTERIOR WALLS DESIGNED FOR 120 MPH WINDS.
 - WALL CLADDING DESIGNED FOR +55 PSF AND -20 PSF (-/- INDICATE POSITIVE / NEGATIVE PRESSURE (TYP.)).
 - ROOF CLADDING DESIGNED FOR 442 PSF AND -18 PSF FOR ROOF PITCHES 1/2 TO 1/12 AND 40 PSF AND -36 PSF FOR ROOF PITCHES 2/12 TO 1/12.
 - INSTALL 1/4" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10.3 OF THE NRC, 2008 EDITION. SEE THE WALL BRACING NOTES AND DETAILS SHEET FOR MORE INFORMATION.
 - ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NRC, 2008 EDITION.
 - REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

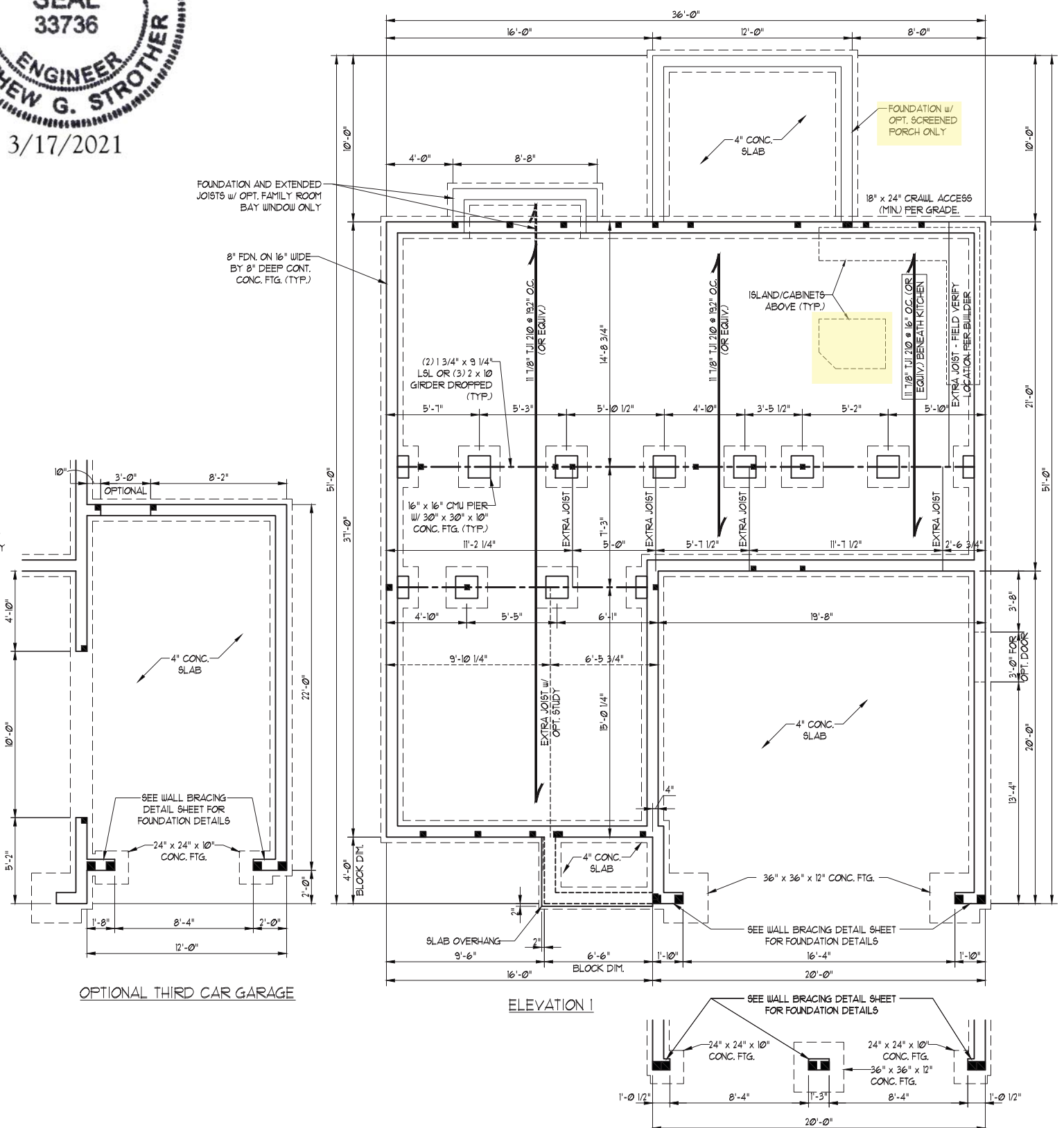
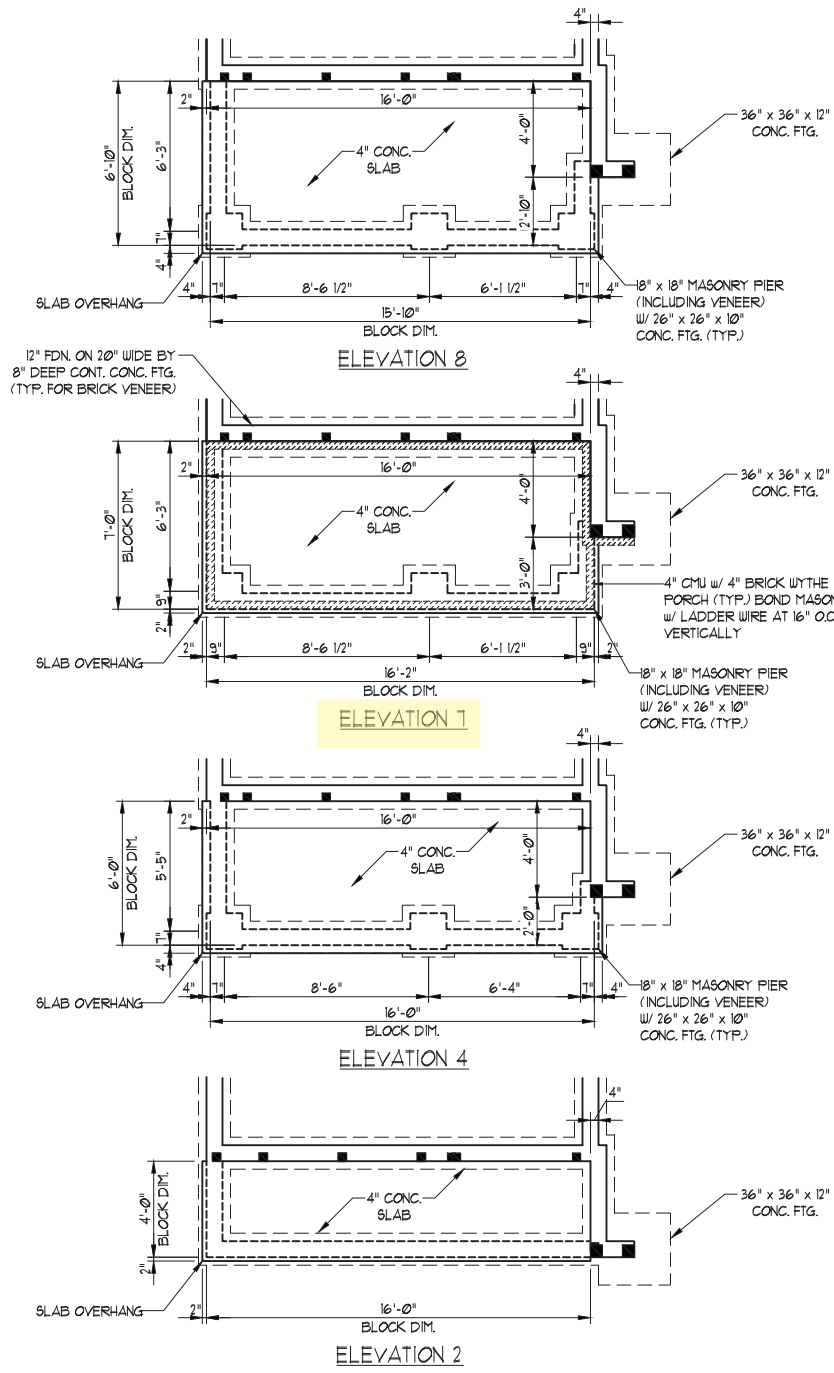
J.S. THOMPSON ENGINEERING, INC
606 WADE AVE., SUITE 104 RALEIGH, NC 27605
PHONE: (919) 789-9919 FAX: (919) 789-9921
N.C. LICENSE NO. C-1733

DEVON - RALE
RELEASE #3 - 2/23/21
DAN RYAN BUILDERS

- STRUCTURAL NOTES:**
- ALL FRAMING LUMBER TO BE #2 SFF (UNO). ALL TREATED LUMBER TO BE #2 SYP (UNO).
 - INSTALL AN EXTRA OR DOUBLE JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
 - SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION.
 - SHADED PIERS TO BE FILLED SOLID.
 - INSTALL LADDER WIRE @ 16" O.C. TO SECURE MULTIPLE WYTHE FOUNDATION WALLS TOGETHER.
 - REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

DATE: MARCH 17, 2021
SCALE: 1/4" = 1'-0"
DRAWN BY: DAN RYAN BUILDERS
ENGINEERED BY: WFB

SHEET 1 OF 8
S-1a
CRAWL FOUNDATION PLAN



OPTIONAL TWO GARAGE DOORS

SCALE NOTE:
LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.
11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

BRACED WALL DESIGN
RECTANGLE B
SIDE 1B
METHOD: FF/CS-WSP
TOTAL REQUIRED LENGTH: 251'
TOTAL PROVIDED LENGTH: 60'
SIDE 2B
METHOD: CS-WSP
TOTAL REQUIRED LENGTH: 251'
TOTAL PROVIDED LENGTH: 833'
SIDE 3B/4A COMBINED
METHOD: CS-WSP
TOTAL REQUIRED LENGTH: 1226'
TOTAL PROVIDED LENGTH: 190'
SIDE 4B
METHOD: CS-WSP
TOTAL REQUIRED LENGTH: 200'
TOTAL PROVIDED LENGTH: 220'

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602.10 OF THE NCRC 2018 EDITION.
- CS-WSP REFERS TO "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL 1/8" OSB ON ALL EXTERIOR WALLS ATTACHED W/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.
- "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 1" O.C. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM FLATES.
- BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NCRC 2018 EDITION.
- SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

NOTE:
BCI 5000#-18 JOISTS MAY BE USED IN LIEU OF TJI 210 JOISTS AND BCI 6000#-18 JOISTS MAY BE USED IN LIEU OF TJI 230 JOISTS AT THE DEPTH AND SPACING NOTED ON THE PLANS.

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SFF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO).
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 10 SFF #2 OR SYP #2 (KILN DRIED) (UNO). HEADERS HAVE BEEN DESIGNED BASED ON CALCULATED LOADS. CODE TABLES HAVE NOT BEEN USED.
- INSTALL AN EXTRA JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
- WINDOW AND DOOR HEADERS TO BE SUPPORTED W/ (1) JACK STUD AND (1) KING STUD EA. END (UNO). SEE TABLE R602.15 FOR ADDITIONAL KING STUD REQUIREMENTS.
- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO).
- ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS W/ SIMPSON ABU44 POST BASES (OR EQUAL) AND 6 x 6 POSTS W/ ABU66 POST BASES (OR EQUAL) (UNO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO).
- FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY OTHERS, SECURE TO SLAB W/ (2) METAL ANGLES USING 2" CONC. SCREWS, FASTEN ANGLES TO COLUMNS W/ 1/4" THROUGH BOLTS W/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

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

DEVON - RALE
RELEASE #3 - 2/23/21
DAN RYAN BUILDERS

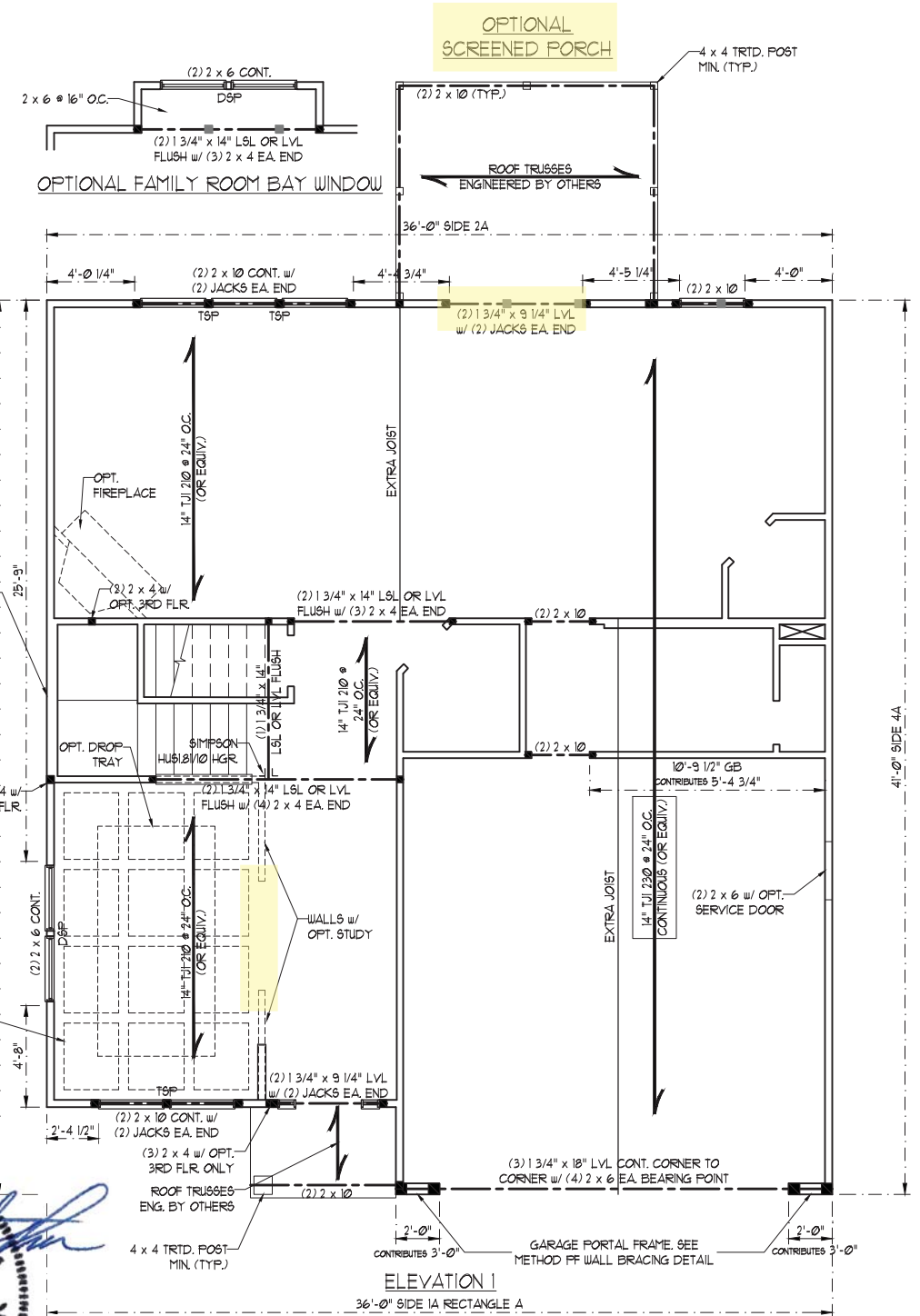
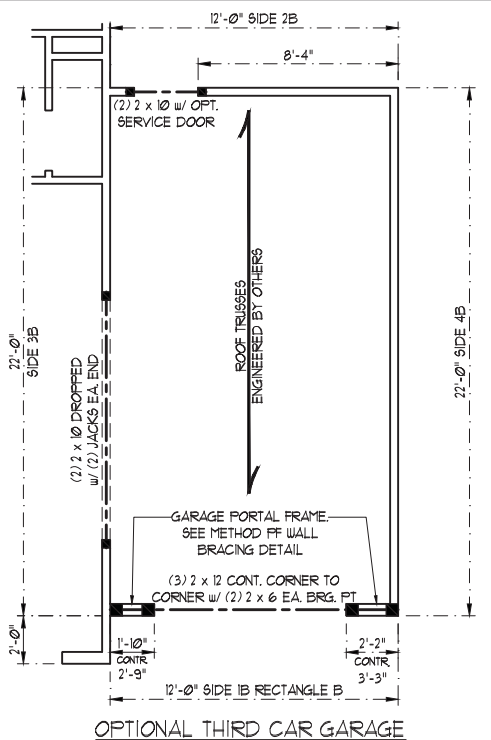
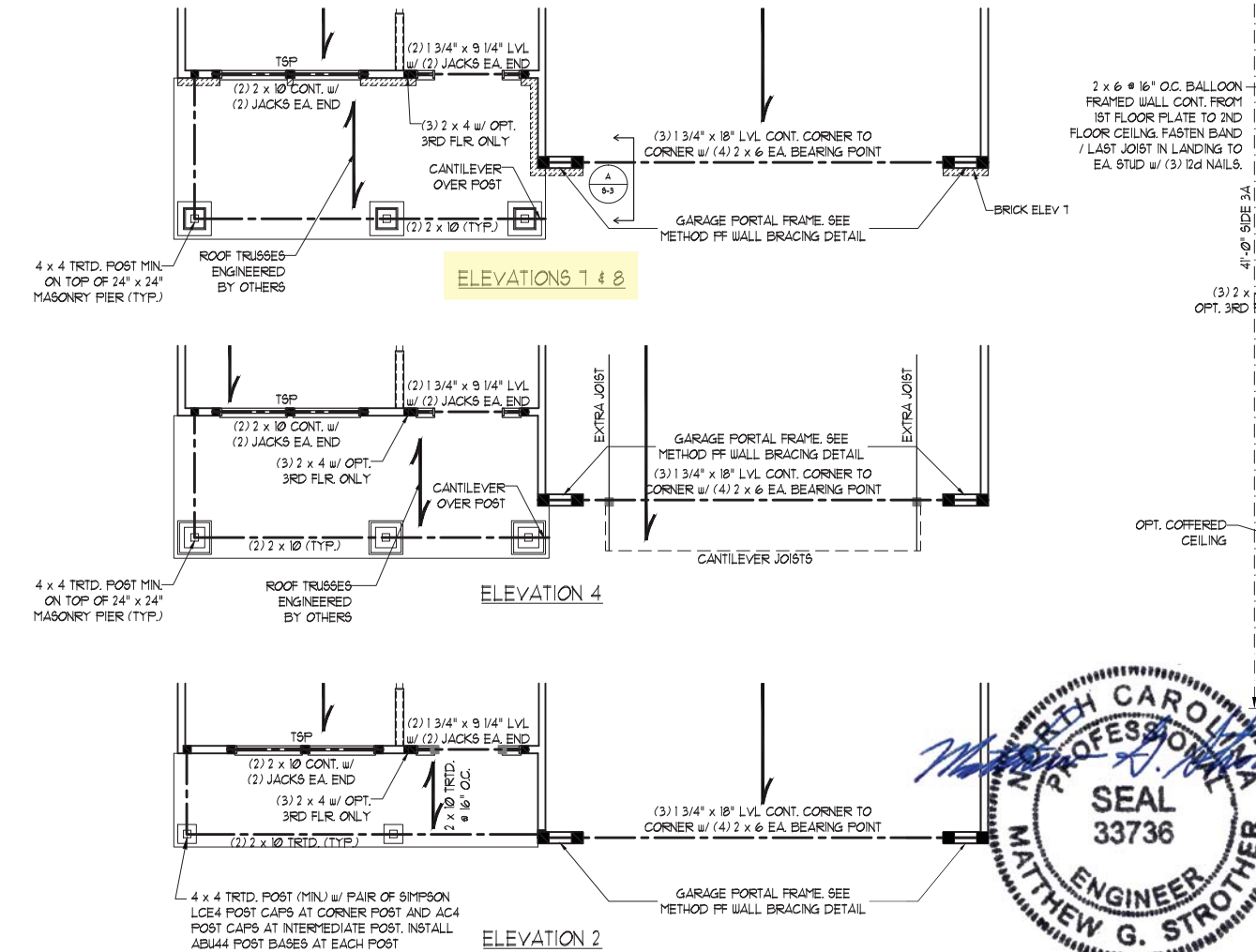


TABLE R602.15
MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCHES) (PER TABLE R602.15)	
	16	24
UP TO 3'	1	1
4'	2	1
8'	3	2
12'	5	3
16'	6	4

BRACED WALL DESIGN
RECTANGLE A
SIDE 1A
METHOD: CS-WSP/GB/FF
TOTAL REQUIRED LENGTH: 1169'
TOTAL PROVIDED LENGTH: 1358'
SIDE 2A
METHOD: CS-WSP
TOTAL REQUIRED LENGTH: 1169'
TOTAL PROVIDED LENGTH: 1685'
SIDE 3A
METHOD: CS-WSP
TOTAL REQUIRED LENGTH: 1026'
TOTAL PROVIDED LENGTH: 3442'
SIDE 4A
METHOD: CS-WSP
TOTAL REQUIRED LENGTH: 1026'
TOTAL PROVIDED LENGTH: 3833'

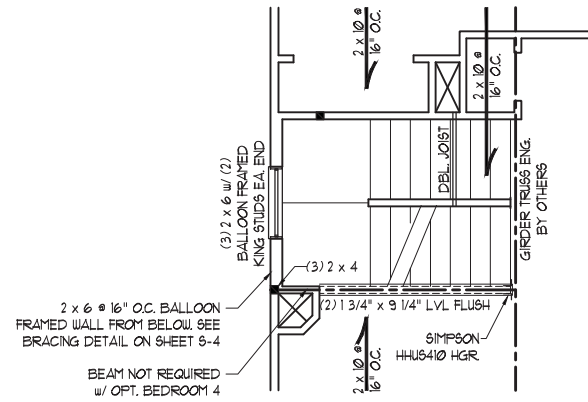


3/17/2021

DATE: MARCH 17, 2021
SCALE: 1/4" = 1'-0"
DRAWN BY: DAN RYAN BUILDERS
ENGINEERED BY: WFB

SHEET 4 OF 8

S-2
SECOND FLOOR
FRAMING PLAN



THIRD FLOOR STAIR OPTION



BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602.10 OF THE NCRC 2018 EDITION.
- C5-W6P 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.
- "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 1" O.C. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM FLATES.
- BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NCRC 2018 EDITION.
- SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

NOTE:

- PER SECTION R602.10.3.2 OF THE 2018 NCRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS REQUIRED.
- 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.

SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.
 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

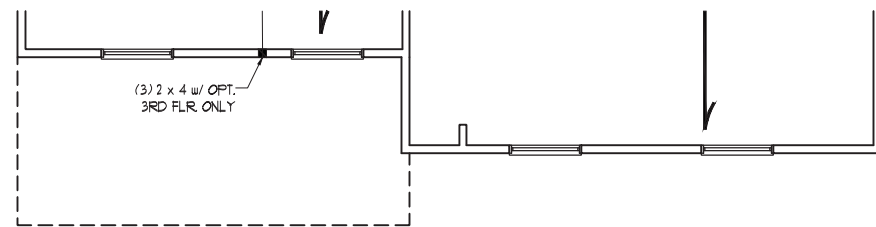
STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE #2 SFF (UNO).
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 10 (UNO).
- WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO). SEE TABLE R602.15 FOR ADDITIONAL KING STUD REQUIREMENTS.
- ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO).
- SQUARES DENOTE POINT 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.

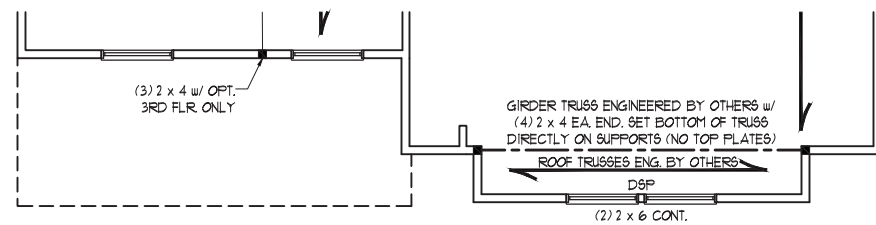
D5P - DOUBLE STUD POCKET

TABLE R602.15
 MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

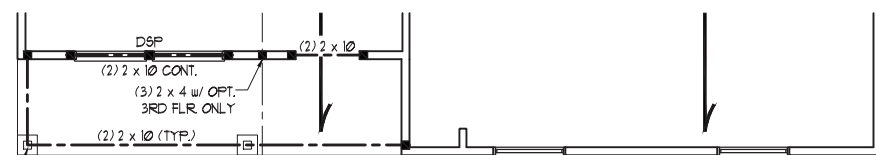
HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCHES) (PER TABLE R602.3/5)	
	16	24
UP TO 3'	1	1
4'	2	1
8'	3	2
12'	5	3
16'	6	4



ELEVATIONS 1 & 2

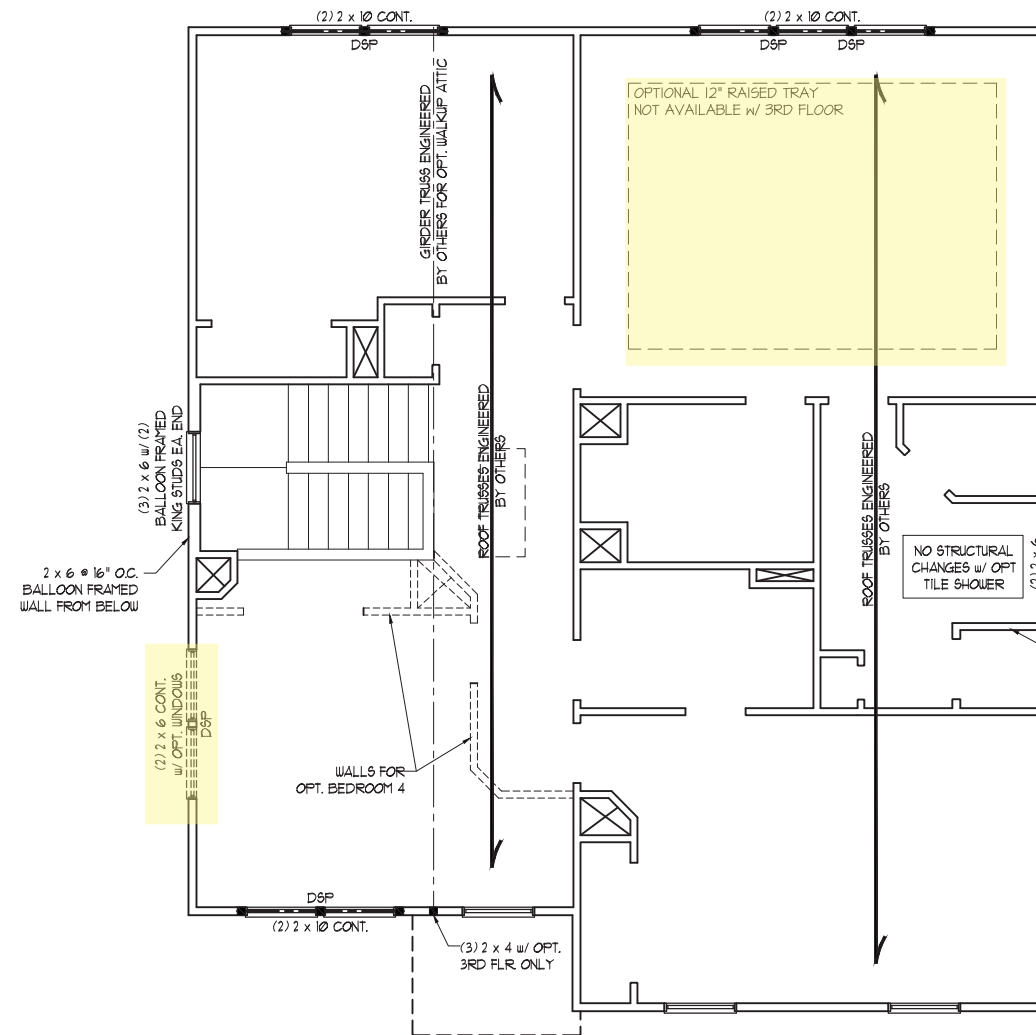


ELEVATION 4



ELEVATION 2

4 x 4 TRTD. POST (MIN) w/ PAIR OF SIMPSON LCE4 POST CAPS AT CORNER POST AND AC4 POST CAPS AT INTERMEDIATE POST. PROVIDE (2) PIECES OF SIMPSON C516 COIL STRAPS w/ 9" END LENGTHS TO CONNECT POST TO BAND BELOW.



ELEVATION 1

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

DEVON - RALE
 RELEASE #3 - 2/23/21
 DAN RYAN BUILDERS

DATE: MARCH 17, 2021

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

DRAWN BY: DAN RYAN BUILDERS

ENGINEERED BY: WFB

SHEET 5 OF 8

S-3
 ATTIC FLOOR FRAMING PLAN

SCALE NOTE:
LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.
11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE



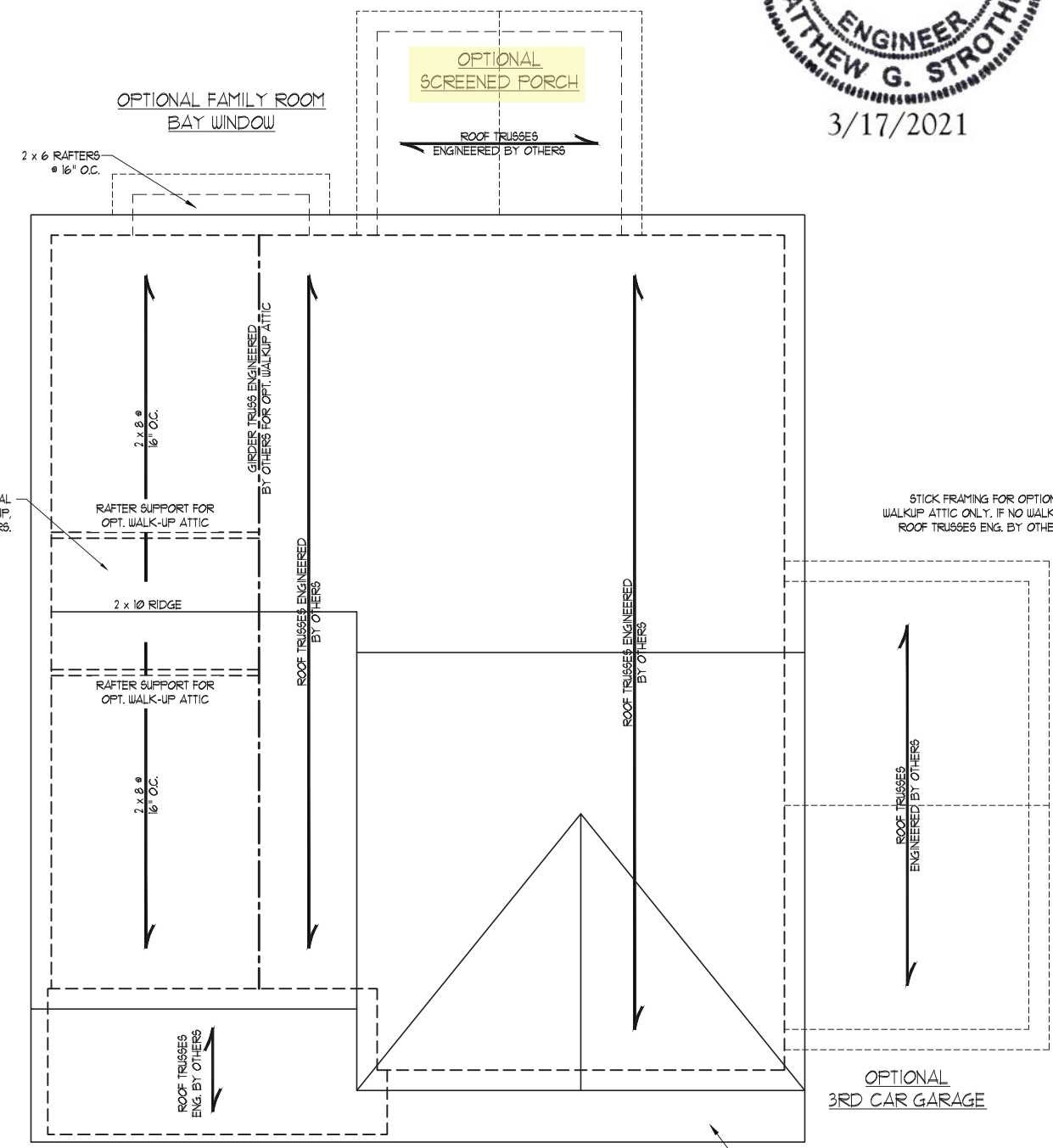
- STRUCTURAL NOTES:**
- ALL FRAMING LUMBER TO BE #2 SPF (UNO).
 - CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF SUPPORT.
 - FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS.
 - HIP SPLICES ARE TO BE SPACED A MIN. OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS @ 16" O.C. (TYP.)
 - STICK FRAME OVER-FRAMED ROOF SECTIONS W/ 2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10 VALLEYS OR USE VALLEY TRUSSES.
 - FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C. MAX. PASS HURRICANE TIES THROUGH NOTCH IN ROOF SHEATHING. EACH RAFTER IS TO BE FASTENED TO THE FLAT VALLEY WITH A MIN. OF (6) 12d TOE NAILS.
 - REFER TO SECTION R202.11 OF THE 2018 NRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND TRUSSES.
 - REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

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

DEVON - RALE
RELEASE #3 - 2/23/21
DAN RYAN BUILDERS

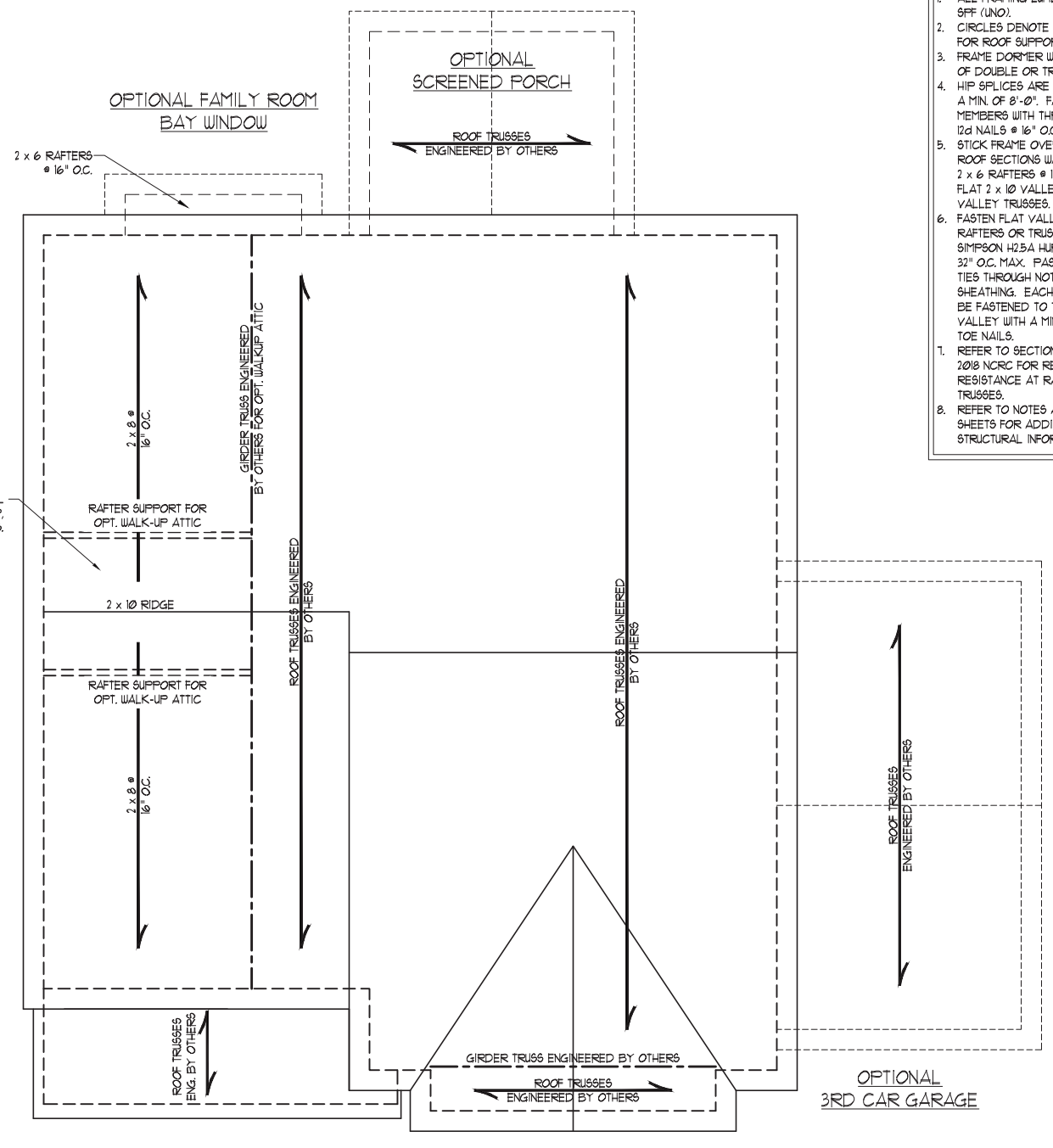
DATE: MARCH 17, 2021
SCALE: 1/4" = 1'-0"
DRAWN BY: DAN RYAN BUILDERS
ENGINEERED BY: WFB

SHEET 8 OF 8
S-5b
ROOF FRAMING PLAN

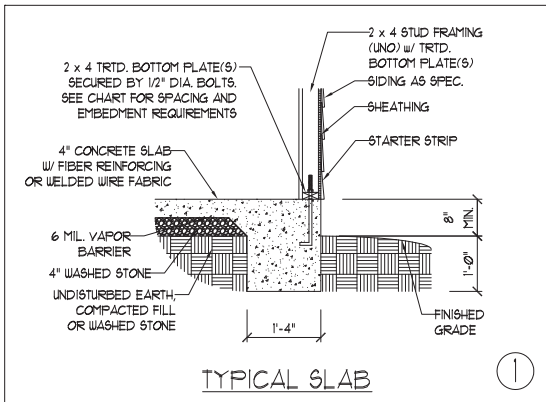


ELEVATIONS 1 & 2

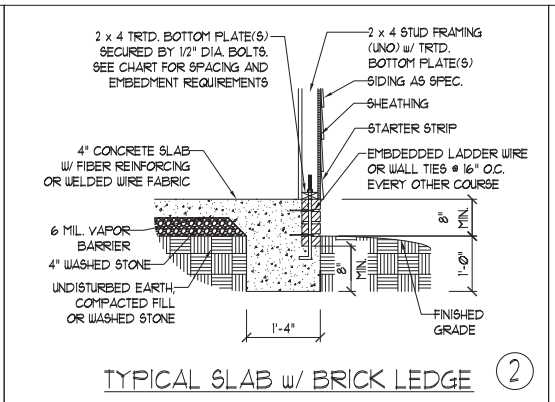
SEE WATER TABLE SECTION SHEET 5-3



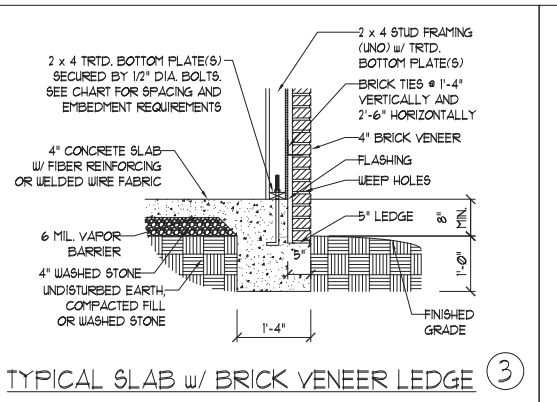
ELEVATION 4



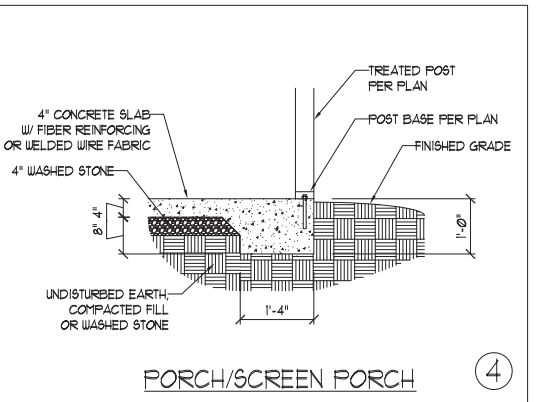
TYPICAL SLAB ①



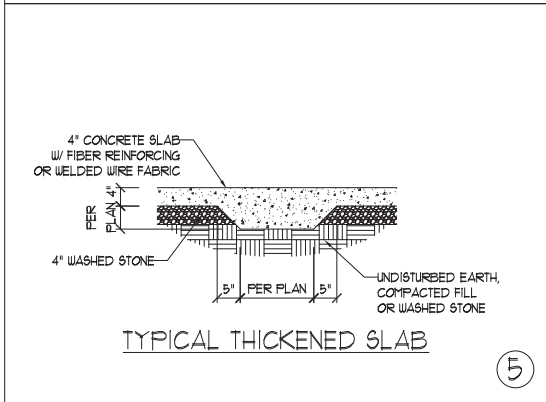
TYPICAL SLAB w/ BRICK LEDGE ②



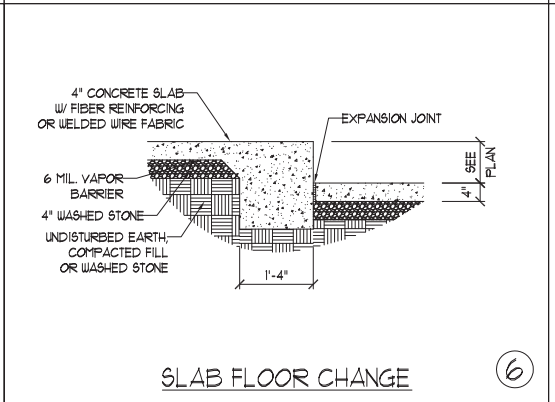
TYPICAL SLAB w/ BRICK VENEER LEDGE ③



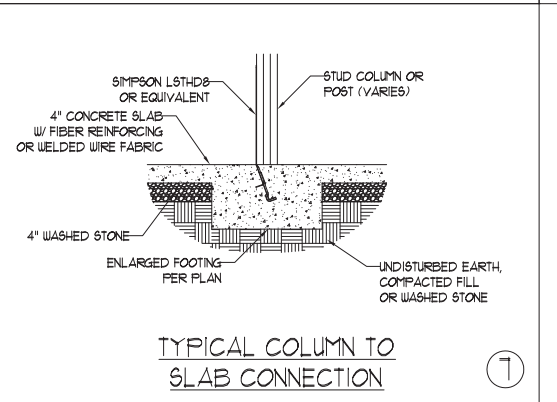
PORCH/SCREEN PORCH ④



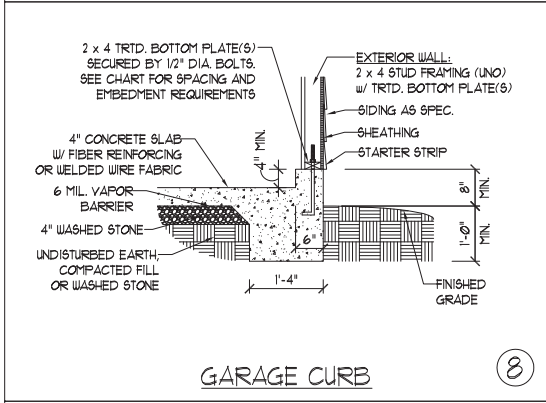
TYPICAL THICKENED SLAB ⑤



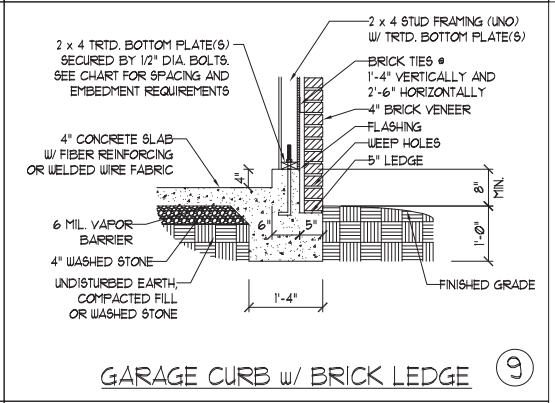
SLAB FLOOR CHANGE ⑥



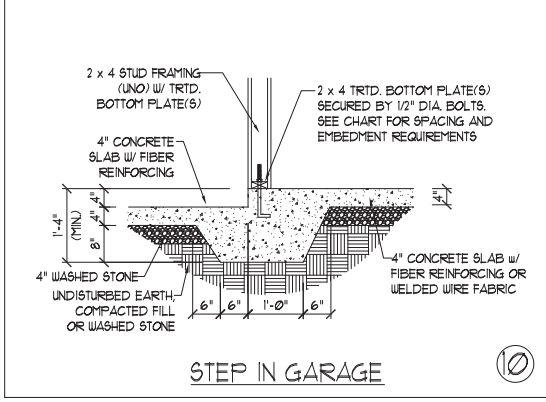
TYPICAL COLUMN TO SLAB CONNECTION ⑦



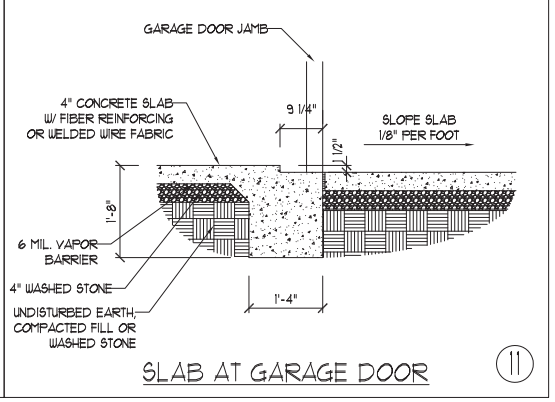
GARAGE CURB ⑧



GARAGE CURB w/ BRICK LEDGE ⑨



STEP IN GARAGE ⑩



SLAB AT GARAGE DOOR ⑪

ANCHOR SPACING AND EMBEDMENT		NOTE:
WIND ZONE	120 MPH	THREADED ROD WITH EPOXY, SIMPSON TITEN HD, OR APPROVED ANCHORS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2\"/>
SPACING	6'-0\"/>	
EMBEDMENT	7\"/>	



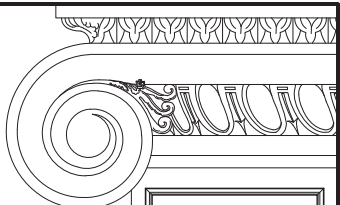
This sealed page is to be used in conjunction with a full plan set engineered by J.S. Thompson Engineering, Inc. only. Use of this individual sealed page within architectural pages or shop drawings by others is a punishable offense under N.C. Statute § 89C-23

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

MONOLITHIC SLAB FOUNDATION DETAILS

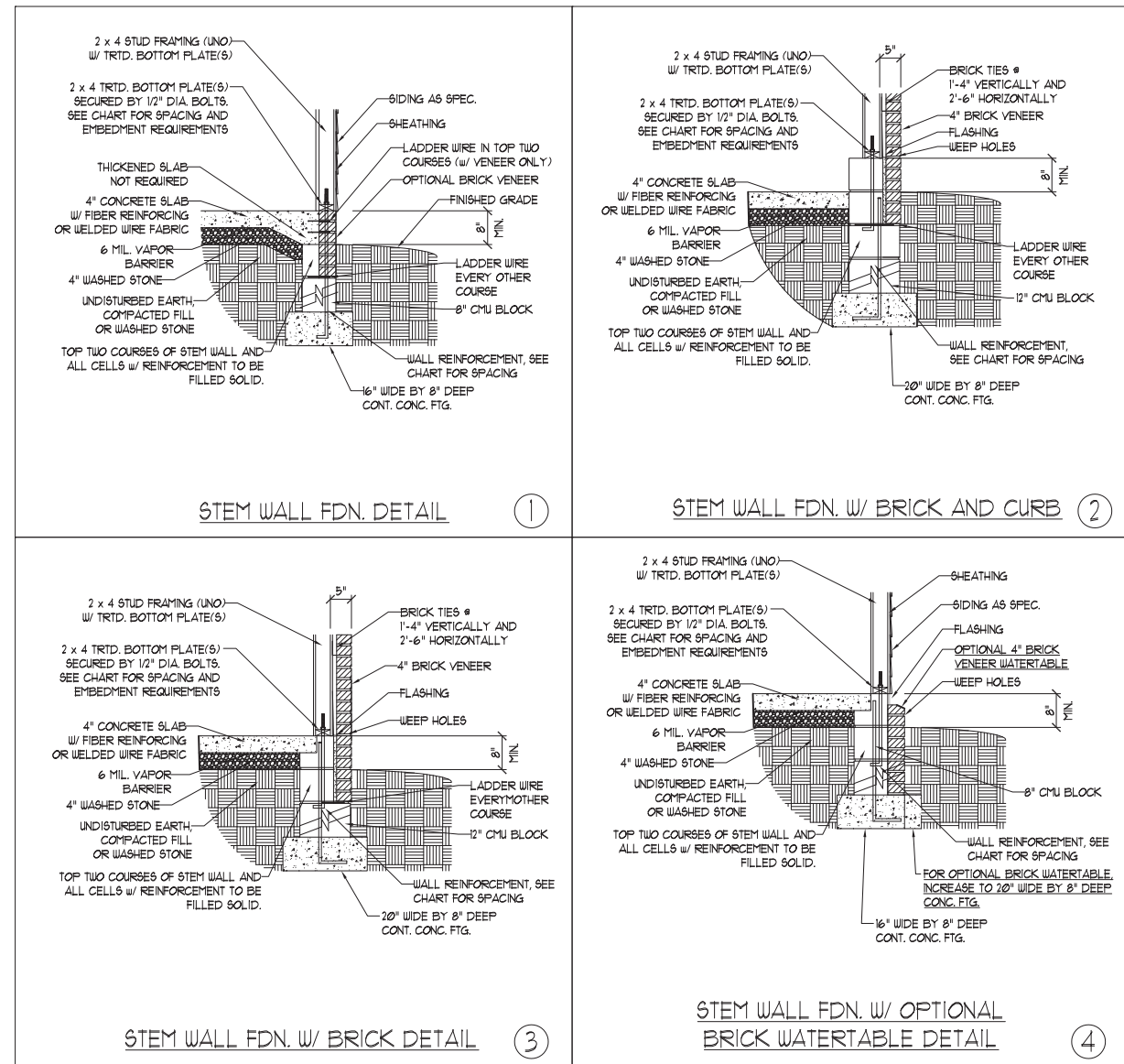
DATE: NOVEMBER 1, 2018
 SCALE: NTS
 DRAWN BY: JST
 ENGINEERED BY: JST

FOUNDATION DETAILS



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

STEM WALL
FOUNDATION DETAILS



MASONRY STEMWALL SPECIFICATIONS				
WALL HEIGHT (FEET)	MASONRY WALL TYPE			
	8" CMU	4" BRICK AND 4" CMU	4" BRICK AND 8" CMU	12" CMU
2 AND BELOW	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED
3	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED
4	GROUT SOLID	GROUT SOLID w/ #4 REBAR @ 48" O.C.	GROUT SOLID	GROUT SOLID w/ #4 REBAR @ 64" O.C.
5	GROUT SOLID w/ #4 REBAR @ 36" O.C.	NOT APPLICABLE	GROUT SOLID w/ #4 REBAR @ 36" O.C.	GROUT SOLID w/ #4 REBAR @ 64" O.C.
6	GROUT SOLID w/ #4 REBAR @ 24" O.C.	NOT APPLICABLE	GROUT SOLID w/ #4 REBAR @ 24" O.C.	GROUT SOLID w/ #4 REBAR @ 64" O.C.
7 AND GREATER	ENGINEERED DESIGN BASED ON SITE CONDITIONS			

STRUCTURAL NOTES:

- 1) WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
- 2) TIE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.
- 3) CHART APPLICABLE FOR HOUSE FOUNDATION ONLY. CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
- 4) BACKFILL OF CLEAN #1 / #1 WASHED STONE IS ALLOWABLE.
- 5) BACKFILL OF WELL DRAINED OR SAND - GRAVEL MIXTURE SOILS (45 PSF/FT BELOW GRADE) CLASSIFIED AS GROUP 1 ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL CODE ARE ALLOWABLE.
- 6) PREP SLAB PER R506.2.1 AND R506.2.2 BASE AND EXCEPTION OF 2018 NORTH CAROLINA RESIDENTIAL CODE.
 - 1) MINIMUM 24" LAP SPLICE LENGTH.
 - 2) LOCATE REBAR IN CENTER OF FOUNDATION WALL.
 - 3) 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.



3/17/2021

ANCHOR SPACING AND EMBEDMENT		
WIND ZONE	120 MPH	130 MPH
SPACING	6'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	4'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS
EMBEDMENT	7"	15" INTO MASONRY 7" INTO CONCRETE

NOTE:
THREADED ROD WITH EPOXY, SIMPSON TITEN HD, OR APPROVED ANCHORS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2" DIAMETER ANCHOR BOLTS MAY BE USED IN LIEU OF 1/2" ANCHOR BOLTS.

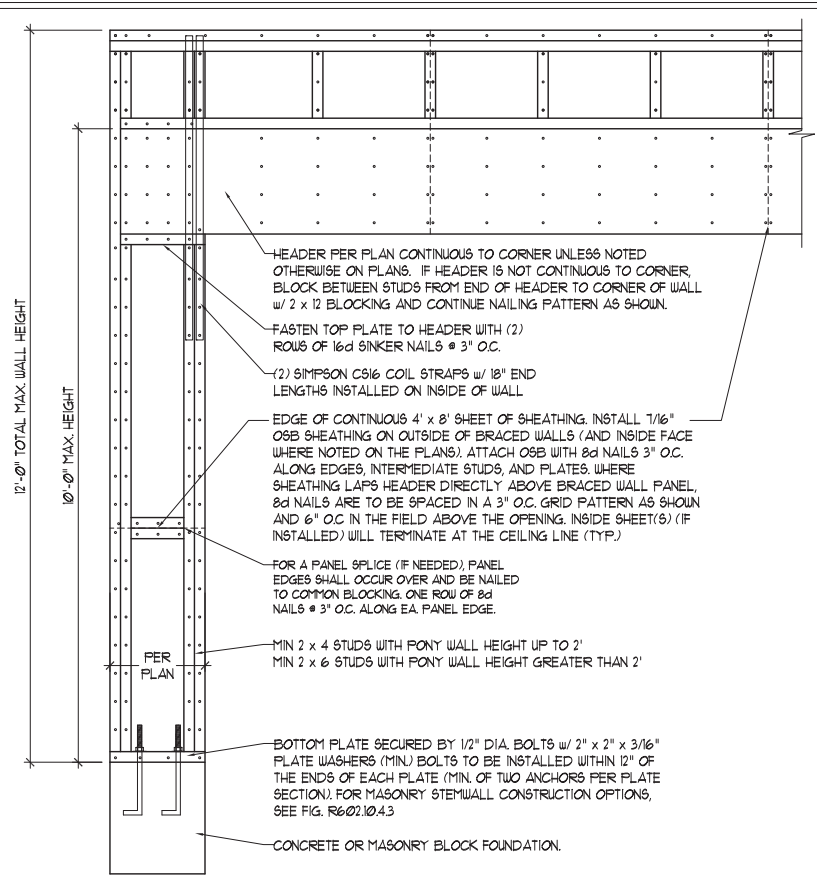
This sealed page is to be used in conjunction with a full plan set engineered by J.S. Thompson Engineering, Inc. only. Use of this individual sealed page within architectural pages or shop drawings by others is a punishable offense under N.C. Statute § 89C-23

DATE: NOVEMBER 1, 2018
SCALE: NTS
DRAWN BY: JST
ENGINEERED BY: JST

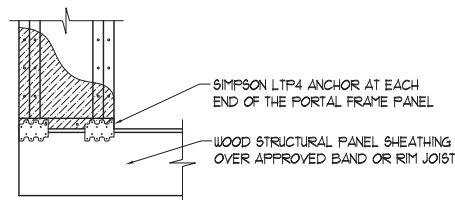
FOUNDATION
DETAILS

GENERAL WALL BRACING NOTES:

1. WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NRC.
2. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NRC FOR ADDITIONAL INFORMATION AS NEEDED.
3. BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE BEEN DESIGNED PER R602.3.5 (3). WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.
4. 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.
5. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE.
6. 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.
7. CS-WSP REFERS TO THE "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 7/16" OSB SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED w/ 6d COMMON NAILS OR 8d (2 1/2" LONG x Ø13" DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (UNO).
8. 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 1" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UNO). VERIFY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R102.3.5. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R602.3(1). EXTERIOR GB TO BE INSTALLED VERTICALLY.
9. 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 15 TIMES ITS ACTUAL LENGTH.

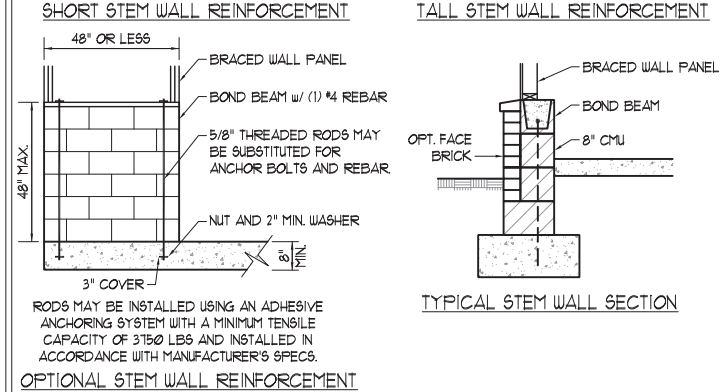
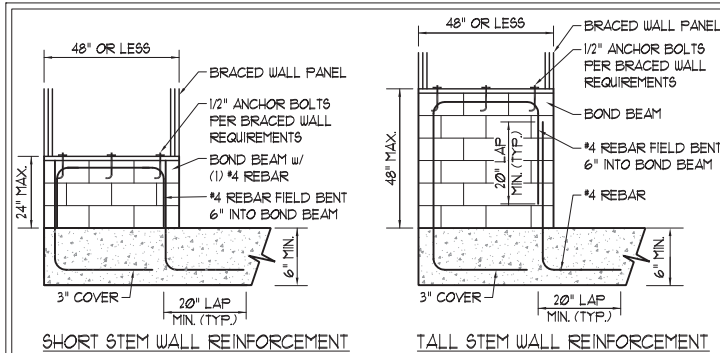


OVER CONCRETE OR MASONRY BLOCK FOUNDATION

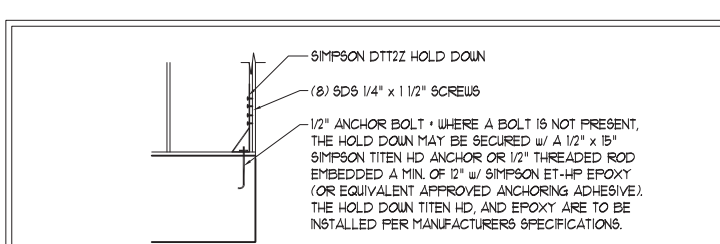
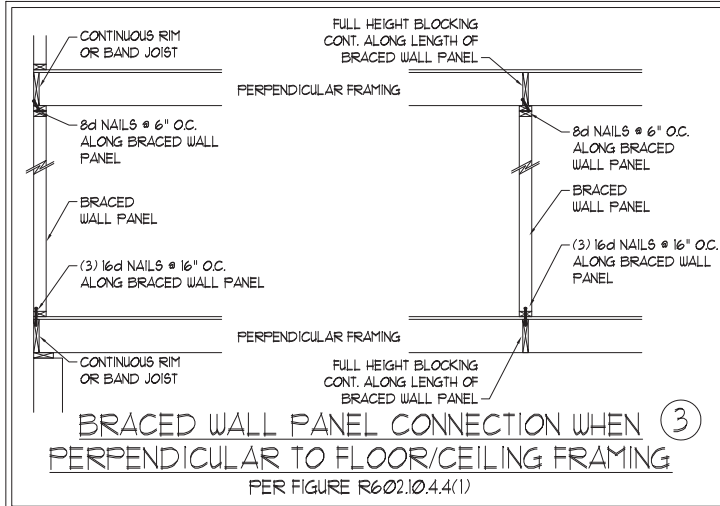


OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION
 * APPLICABLE w/ GREATER THAN 12" KNEE WALL HEIGHTS
 IN CRAWL SPACE AND ABOVE FRAMED BASEMENT WALLS *

METHOD PF - PORTAL FRAME DETAIL ①

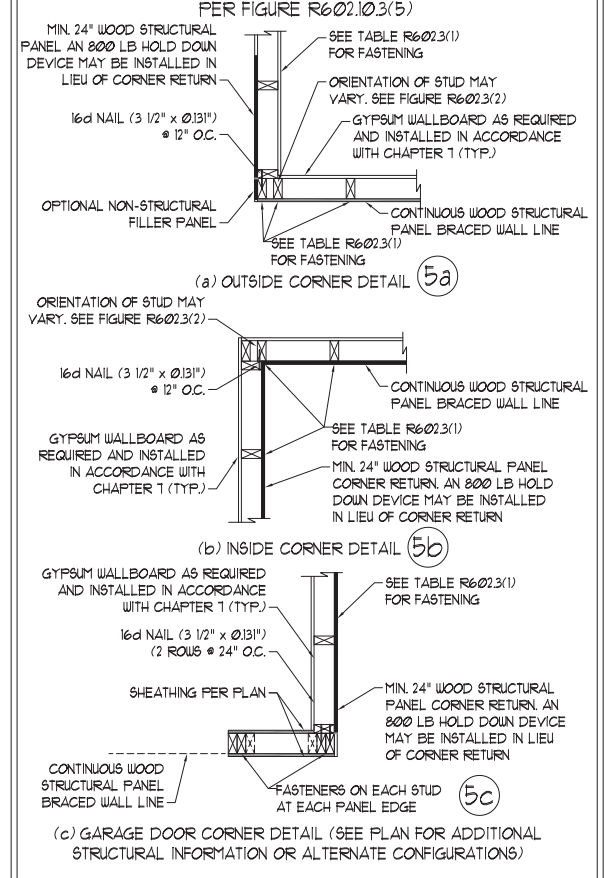


NOTE: GROUT BOND BEAMS AND ALL CELLS WHICH CONTAIN REBAR, THREADED RODS AND ANCHOR BOLTS
MASONRY STEM WALLS SUPPORTING BRACED WALL PANELS ②
 PER FIGURE R602.10.4.3

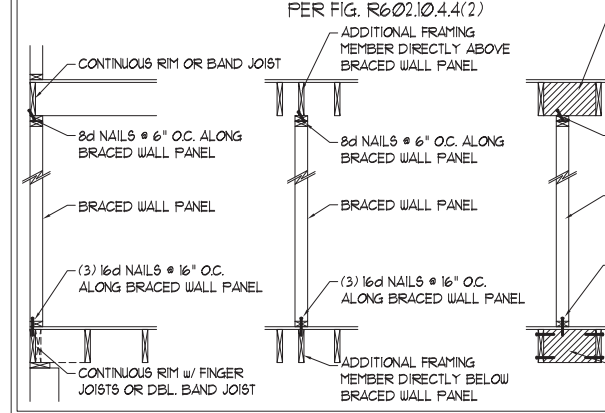


HOLD DOWN DETAIL FOR MASONRY FOUNDATION OR MONOLITHIC SLAB ④
 * APPLICABLE ONLY WHERE SPECIFIED ON PLAN *

TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING ⑤

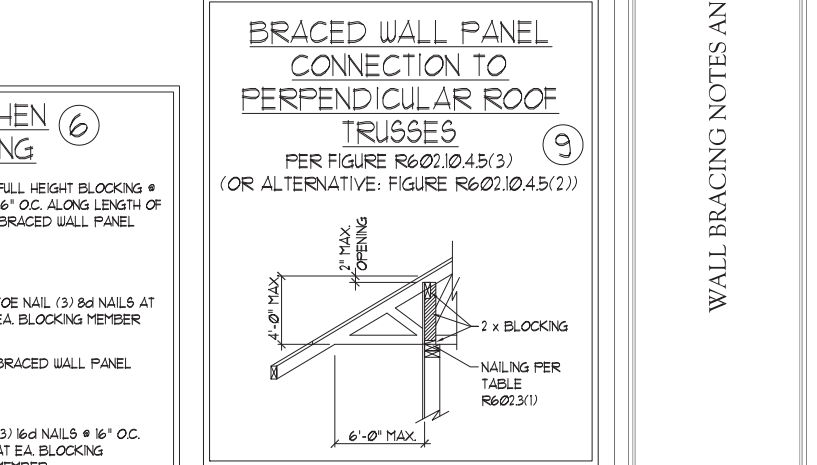
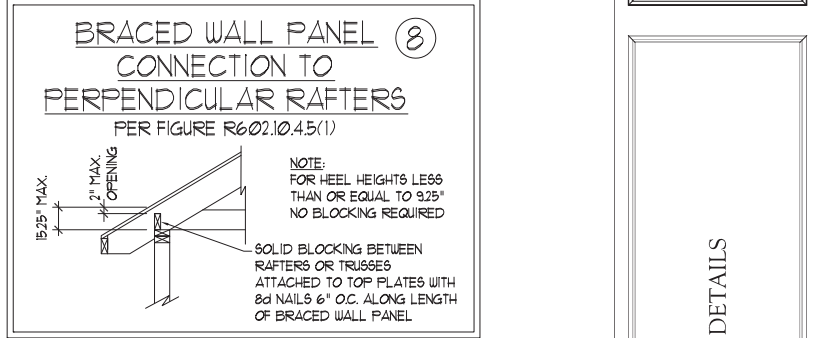
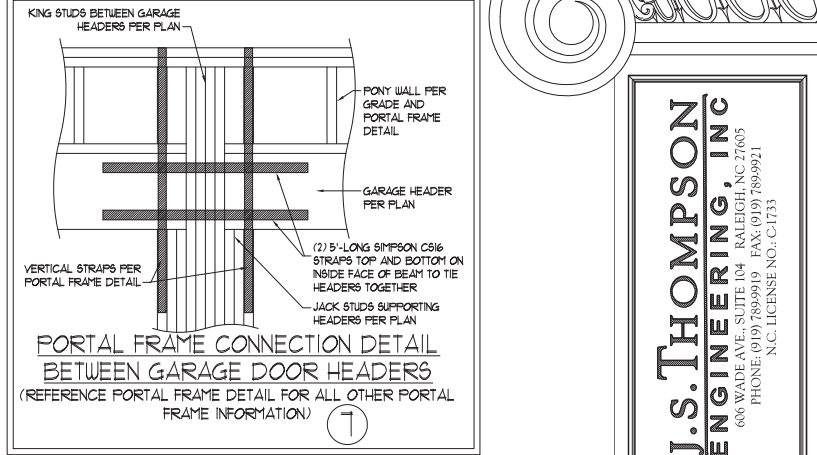


BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING ⑥



This sealed page is to be used in conjunction with a full plan set engineered by J.S. Thompson Engineering, Inc. only. Use of this individual sealed page within architectural pages or shop drawings by others is a punishable offense under N.C. Statute § 89C-23

SCALE NOTE:
 LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.
 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE



WALL BRACING NOTES AND DETAILS

DATE: MAY 30, 2020
 SCALE: 1/4" = 1'-0"
 DRAWN BY: JST
 ENGINEERED BY: JST

BRACED WALL NOTES AND DETAILS AND PF DETAILS

3/17/2021

SEAL
 33736
 ENGINEER
 MATTHEW G. STROTHER

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

SCALE NOTE:
LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.
11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

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 I-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NRC), 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 WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NRC, 2018 EDITION (R301.4 - R301.1)

DESIGN CRITERIA:	LIVE LOAD (P&F)	DEAD LOAD (P&F)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	L/240 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	10	L/360
DECKS	40	10	L/360
EXTERIOR BALCONIES	40	10	L/360
FIRE ESCAPES	40	10	L/360
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	10	L/360
PASSENGER VEHICLE GARAGE	50	10	L/360
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/360
SLEEPING ROOMS	30	10	L/360
STAIRS	40	10	L/360
WIND LOAD	(BASED ON TABLE R301.2(4) WIND ZONE AND EXPOSURE)		
GROUND SNOW LOAD: P _g	20 (P&F)		

- I-JOIST SYSTEMS DESIGNED WITH 12 P&F DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH 15 P&F DEAD LOAD

- FOR 15 AND 20 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.16 OF THE NRC, 2018 EDITION. FOR 30 MPH, 40 MPH, AND 50 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NRC, 2018 EDITION.
- ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NRC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

- FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 P&F. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 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 34" 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 1, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R403.1 OF THE NRC, 2018 EDITION.
- PROPERLY DEWATER EXCAVATION 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 SAILED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NRC, 2018 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 1 1/2" FOR #5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR #6 BARS OR LARGER.
- MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C170.
- 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 FILLED PIERS. PIERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR S 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.
- ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMATR 68-A OR ACE 530/ASCE 5/TMS 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 NRC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1(5) OF THE NRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

This sealed page is to be used in conjunction with a full plan set engineered by J.S. Thompson Engineering, Inc. only. Use of this individual sealed page within architectural pages or shop drawings by others is a punishable offense under N.C. Statute § 89C-23

FRAMING NOTES

- ALL FRAMING LUMBER SHALL BE #2 SFF MINIMUM (F_b = 875 PSI, F_v = 375 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE #2 SYP MINIMUM (F_b = 975 PSI, F_v = 175 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO).
- LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F_b = 2600 PSI, F_v = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F_b = 2325 PSI, F_v = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F_c = 2500 PSI, E = 1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F_c = 2920 PSI, E = 2020000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 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 S

- 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. x 4" LONG LAG SCREWS
B. CONCRETE	(2) 1/2" DIA. x 4" WEDGE ANCHORS
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.
- ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.1(1) AND R602.1(2) OF THE NRC, 2018 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). INSTALL KING STUDS PER SECTION R602.15 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 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 1 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).
- FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A307) 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).
- ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 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 R602.10.
- PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES 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 5/16" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (UNO). 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) 2 x 10 BLOCKING INSTALLED w/ (4) 12d NAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R103.2(1) OF THE NRC, 2018 EDITION.
- 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).
- FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).
- ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO). POSTS MAY BE SECURED USING ONE SIMPSON H6 OR L7512 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON C916 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIN STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.



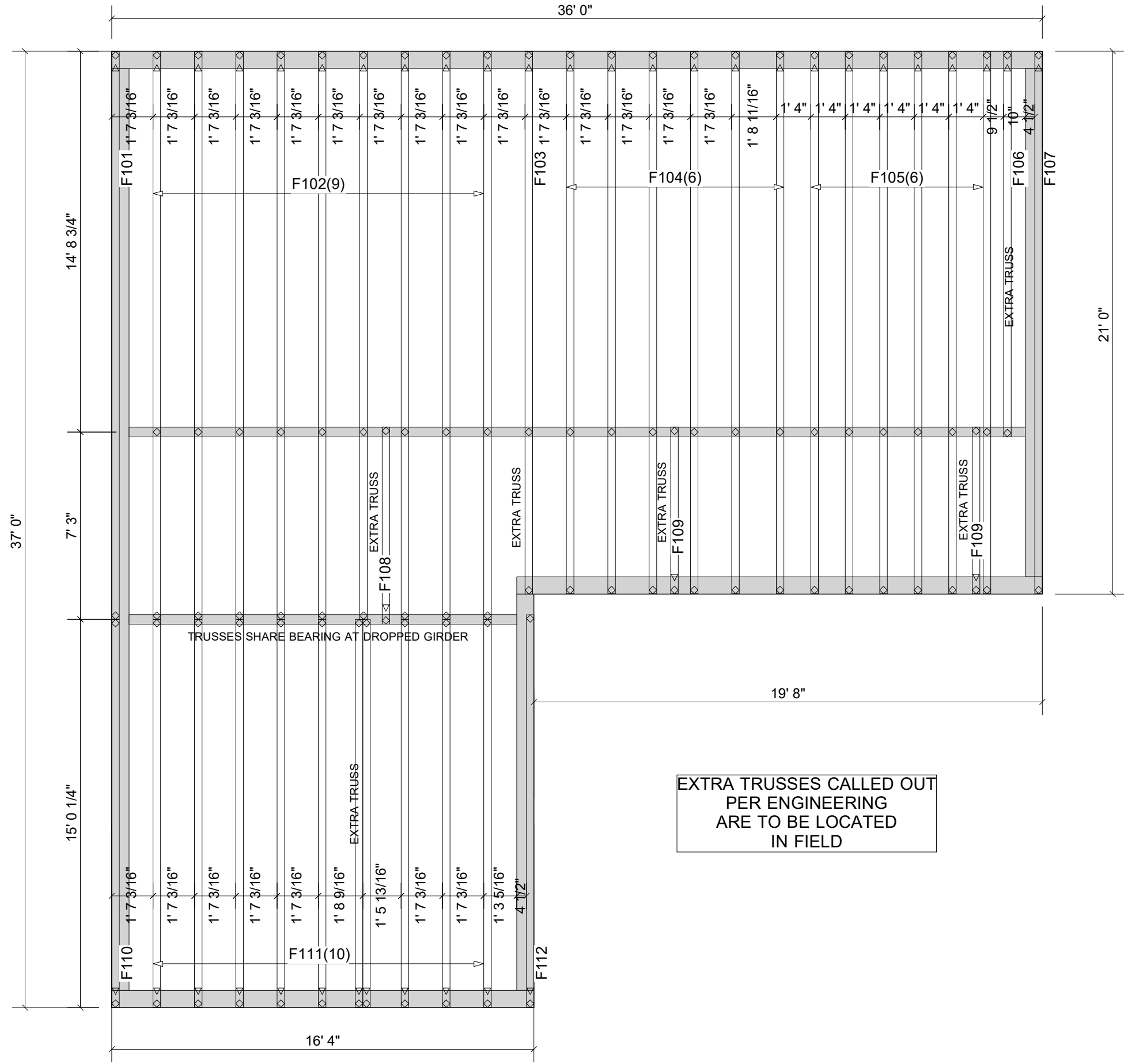
J.S. THOMPSON ENGINEERING, INC
606 WADE AVE., SUITE 104 RALEIGH, NC 27605
PHONE: (919) 789-9919 FAX: (919) 789-9921
N.C. LICENSE NO.: C-1733

STANDARD STRUCTURAL NOTES

DATE: OCTOBER 29, 2018
DRAWN BY: JES
ENGINEERED BY: JST

SHEET:
STRUCTURAL NOTES

3/17/2021



WARNING! Long span trusses, 60' or greater in length, require extreme care and experience for proper and safe handling and installation. For general handling and installation guidance, see the "Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), JOINTLY PRODUCED BY SBCA and TPI. For project specific guidance, consult with a registered design professional. ATLANTIC assumes no responsibility for the handling, installation or bracing of trusses.

▲ = LEFT END OF TRUSS

FOR CONSTRUCTION



Moncks Corner/Easley, SC (800) 475-3999
Sparta, NC (336) 372-2226

REVISIONS:

Client: DAN RYAN - RALEIGH

Job: LOT 0.0063 OLDE MILL VILL

Plan Information:
DEVON-7

NOT TO SCALE

Drawn By: BPT

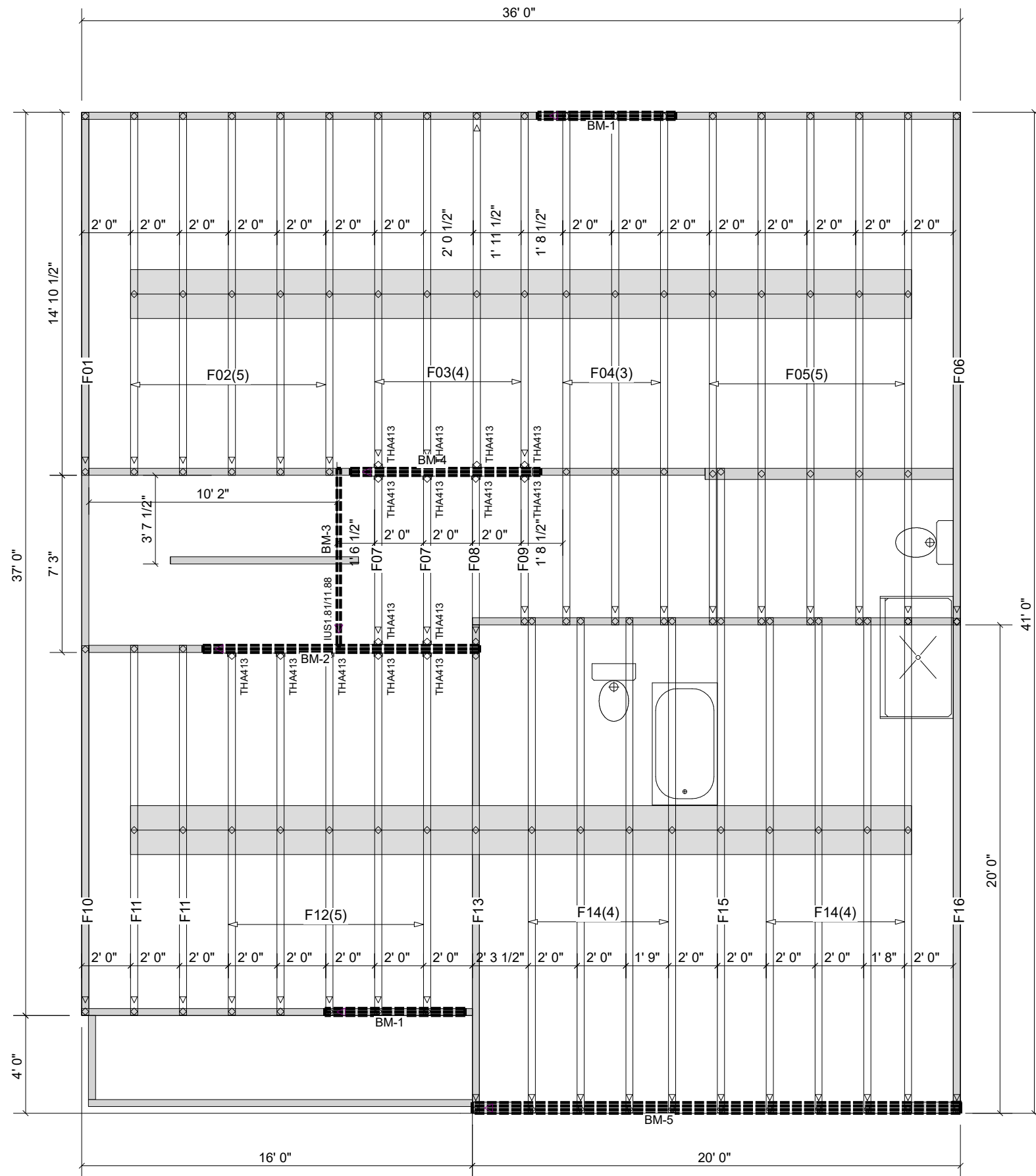
Date: / /

Job #: 21-4057-F01

Sales Rep: KYLE GIBSON

Phone:

FLOOR



Products				
PlotID	Length	Product	Plies	Net Qty
BM-1	6' 0"	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	4
BM-2	12' 0"	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	2	2
BM-3	8' 0"	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	1	1
BM-4	8' 0"	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	2	2
BM-5	20' 0"	1-3/4" x 18" VERSA-LAM® 2.0 3100 SP	3	3

Truss Connector Total List		
Manuf	Product	Qty
Simpson	THA413	15

Connector Summary			
Qty	Manuf	Product	Flange
1	Simpson	IUS1.81/11.88	None

▲ = LEFT END OF TRUSS

FOR CONSTRUCTION

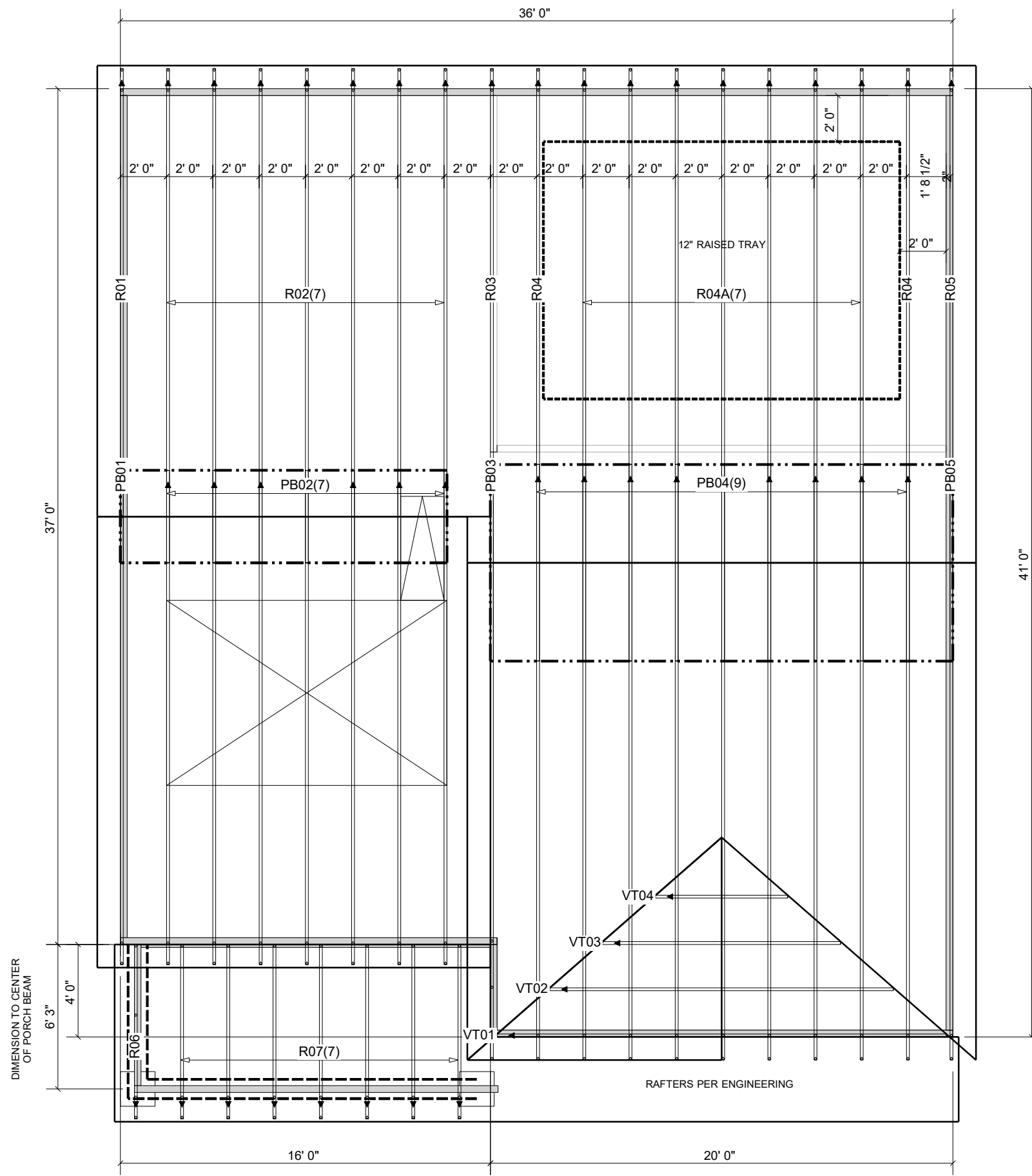
Client: DAN RYAN - RALEIGH
 Job: LOT 0.0063 OLDE MILL VILL
 Plan Information: DEVON-7
 NOT TO SCALE
 Date: / /
 Job #: / /
 Sales Rep: KYLE GIBSON
 Drawn By: BPT
 Phone: 21-4057-F02

REVISIONS:



Moncks Corner/Easley, SC (800) 475-3999
 Sparta, NC (336) 372-2226

WARNING! Long span trusses, 60' or greater in length, require extreme care and experience for proper and safe handling and installation. For general handling and installation guidance, see the "Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), JOINTLY PRODUCED BY SBCA and TPI. For project specific guidance, consult with a registered design professional. ATLANTIC assumes no responsibility for the handling, installation or bracing of trusses.



TRUSS TO TRUSS CONNECTIONS
ARE 3-10d TOE-NAILS U.N.O.

▲ = LEFT END OF TRUSS

FOR CONSTRUCTION

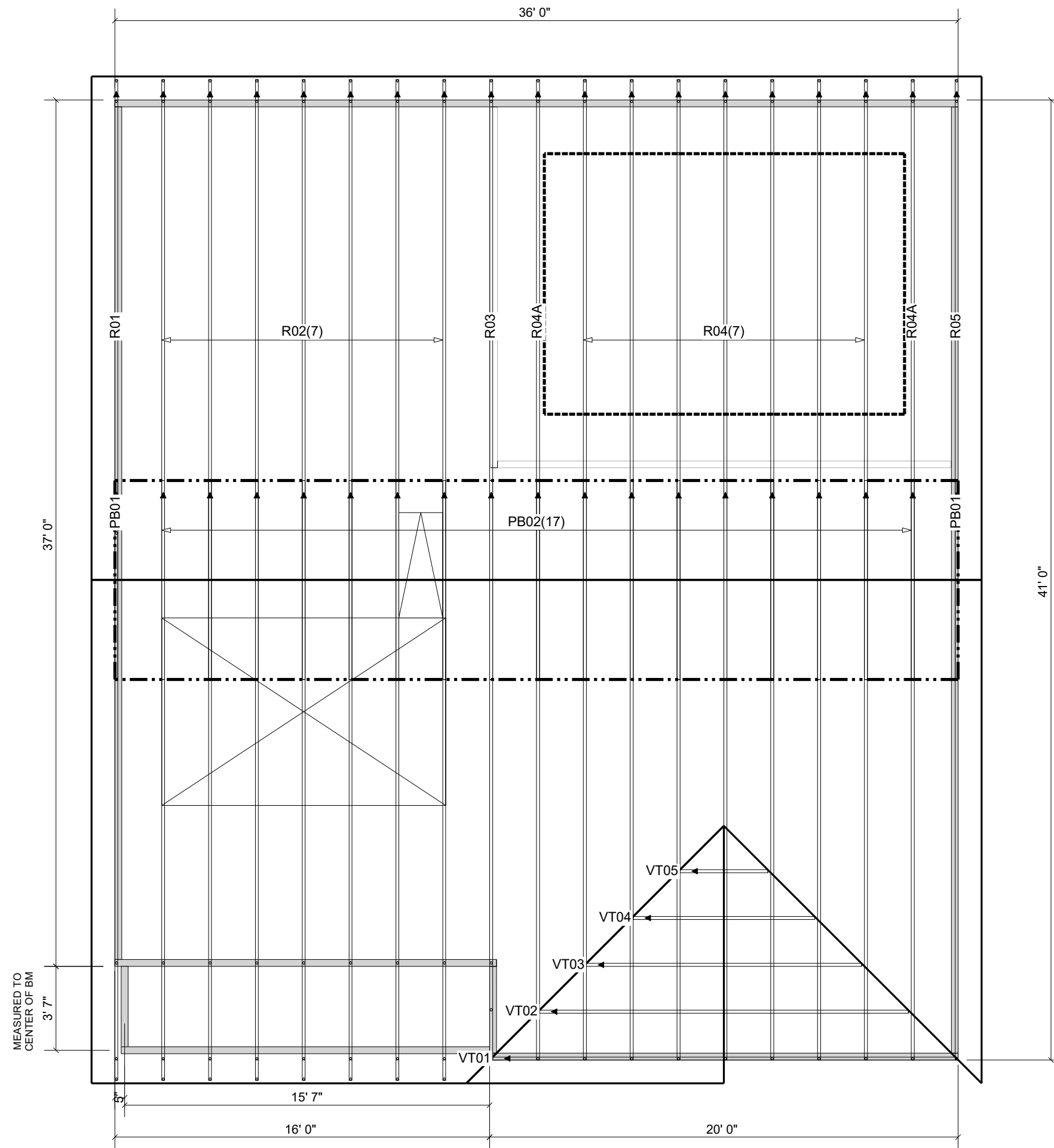
Client: DAN RYAN - RALEIGH		ROOF	
Job: LOT 0.0063 OLDE MILL VILL			
Plan Information: DEVON-7			
NOT TO SCALE	Date: / /	Sales Rep: KYLE GIBSON	
Drawn By: BPT	Job #: 21-4057-R01	Phone:	

REVISIONS:



Moncks Corner/Easley, SC (800) 475-3999
Sparta, NC (336) 372-2226

WARNING! Long span trusses, 60' or greater in length, require extreme care and experience for proper and safe handling and installation. For general handling and installation guidance, see the "Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), JOINTLY PRODUCED BY SBCA and TPI. For project specific guidance, consult with a registered design professional. ATLANTIC assumes no responsibility for the handling, installation or bracing of trusses.



WARNING! Long span trusses, 60' or greater in length, require extreme care and experience for proper and safe handling and installation. For general handling and installation guidance, see the "Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses ("BCSI")", JOINTLY PRODUCED BY SBCA and TPI. For project specific guidance, consult with a registered design professional. ATLANTIC assumes no responsibility for the handling, installation or bracing of trusses.

▲ = LEFT END OF TRUSS

FOR CONSTRUCTION

Client: DAN RYAN - RALEIGH
 Job: LOT 0.0059 OLDE MILL VILL
 Plan Information:
DEVON-2

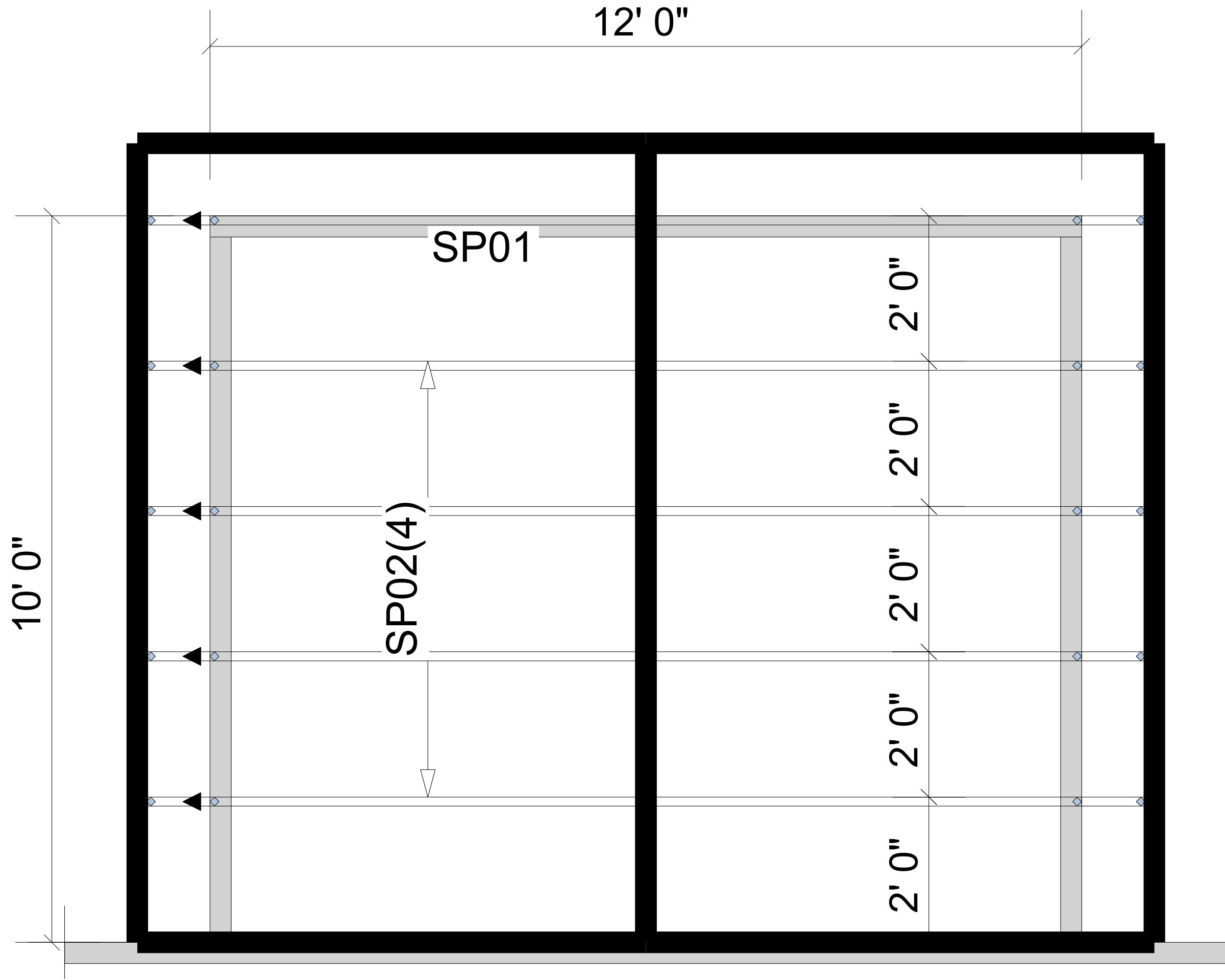
ROOF

NOT TO SCALE
 Drawn By: BPT
 Date: / /
 Job #: 21-4055-R01
 Sales Rep: KYLE GIBSON
 Phone:


REVISIONS:



Moncks Corner/Easley, SC (800) 475-3999
 Sparta, NC (336) 372-2226



WARNING! Long span trusses, 60' or greater in length, require extreme care and experience for proper and safe handling and installation. For general handling and installation guidance, see the "Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), JOINTLY PRODUCED BY SBCA and TPI. For project specific guidance, consult with a registered design professional. ATLANTIC assumes no responsibility for the handling, installation or bracing of trusses.

 <p>Moncks Corner/Easley, SC (800) 475-3999 Sparta, NC (336) 372-2226</p>	<p>REVISIONS:</p>	<p>▲ = LEFT END OF TRUSS</p>		<p>FOR CONSTRUCTION</p>	
		<p>Client: DAN RYAN - RALEIGH</p>	<p>Job: LOT 0.0063 OLDE MILL VILL</p>	<p>Plan Information: DEVON-7</p>	<p>NOT TO SCALE</p>
		<p>Drawn By: BPT</p>	<p>Job #: 21-4057-R01</p>	<p>Phone:</p>	