

# ROOSEVELT



*Buyer Marked Plan*

COVER SHEET

## ROOSEVELT REVISION LIST - STRUCTURAL:

- 1.) DOWNSIZED SOME WINDOW HEADERS TO (2) 2 x 6 OR (2) 2 x 8 (4-17)
- 2.) EXTRA JOIST LOCATIONS (4-17)
- 3.) ADDED HEADER SIZES FOR BRICK OPTIONS (4-17)
- 4.) 3-PLY HEADERS AT GARAGES (4-17)
- 5.) PORTAL FRAMING CHANGES AT CONTINUOUS DOUBLE GARAGE DOOR HEADERS (4-17)
- 6.) REMOVED BALLOON FRAMING FROM REMOVING SECOND FLOOR VAULTS (4-17)
- 7.) ADDED JOIST SERIES/SPACING TO PLANS (4-17)
- 8.) ADDED BASEMENT FRAMING FOR AREA FORMERLY CRAWL SPACE (4-17)
- 9.) SOME RECONFIGURATION OF PIERS ON CRAWL (4-17)

## ROOSEVELT REVISION LIST - ARCHITECTURAL:

1. UPDATED DATES ON ALL SHEETS (05-01-20)
2. CHANGED ALL NOTES ON ELEVATIONS FOR GARAGE AS SPECIFIED (05-01-20)
3. UPDATED LOCATION AND VERIFIED ALL COACH LIGHTS ON ELEVATIONS (05-01-20)
4. CHANGED CORNER BOARDS ON ALL ELEVATIONS FROM 6" TO 4" (05-01-20)
5. REMOVED GRIDS FROM TRANSOMS AND SIDELIGHTS AROUND FRONT DOOR ON ALL ELEVATIONS (05-01-20)
6. REMOVED GRIDS FROM ALL SIDES AND REAR ELEVATIONS (05-01-20)
7. DIMENSIONED WATER TABLE WHERE APPLICABLE (05-01-20)
8. ADDED SHEETS FOR A-2/A-3, B-2/B-3, & C-2/C-3 WITH BRICK AND WITH STONE (05-01-20)
9. ADDED SHEETS FOR A-4, B-4, & C-4 (05-01-20)
10. UPDATED STONE HATCH TO REPRESENT STONE BETTER (05-01-20)
11. REMOVED DUPLICATE DIMENSIONS FROM A-2/A-3, B-2/B-3, & C-2/C-3 (05-01-20)
12. REMOVED SHINGLE HATCH FROM ALL ELEVATIONS (05-01-20)
13. ADDED COLUMN DETAIL TO ELEVATION B-1 & B-4 ON SHEETS A-2 AND A-2.3 (05-01-20)
14. REMOVED HARDWARE FROM SHUTTERS ON ALL C ELEVATIONS (05-01-20)
15. ADDED DIAGONAL DIMENSIONS TO SLAB INTERFACE PLAN (05-01-20)
16. ADDED OPTIONAL FLOOR OUTLETS TO SLAB INTERFACE PLAN (05-01-20)
17. CREATED PARTIAL PLANS FOR EACH ELEVATION LAYOUT TO SHOW LOCATION OF BRICK/STONE (05-01-20)
18. ADDED OPTIONAL GAS LINE (05-01-20)
19. UPDATED "GOURMET KITCHEN" LAYOUT (05-01-20)
20. VERIFIED AND UPDATED SQUARE FOOTAGE CALCULATIONS WITH AND WITHOUT FULL BRICK VENEER (05-01-20)
21. VERIFIED ALL ROOM DIMENSIONS (05-01-20)
22. ADD HOSE BIB LOCATIONS 2'-0" FROM CORNER OF HOUSE (05-01-20)
23. MOVED ALL OPTIONS TO SEPARATE SHEET (05-01-20)
24. CHANGED STANDARD PATIO AND OPTIONAL PATIO TO SIZE 12'x10' (05-01-20)
25. CHANGED ALL EXTERIOR WALLS FROM 2x6 TO 2x4 EXCEPT WHERE SHADED (05-01-20)
26. ADDED "34 1/2" HIGH WALL TO ISLAND IN KITCHEN (05-01-20)
27. VERIFIED VENTILATION AND LIGHT REQUIREMENTS AT OWNER'S BEDROOM MEETS CODE (05-01-20)
28. REMOVED ALL CASED OPENINGS (C.O.) FROM PLAN (05-01-20)
29. UPDATED COLUMNS ON COVERED REAR PORCH TO 8x8 COLUMNS (05-01-20)
30. ADDED SHEET AD-1 WALL SECTIONS AND STAIR DETAIL (05-01-20)
31. REMOVED NUMBER (#) SIGN FROM ALL TITLES (05-01-20)
32. REMOVED ALL NUMBERS FROM STAIRS (05-01-20)
33. NOTED WASHER/ DRYER AS "OPT. W/D" (05-01-20)
34. UPDATED BASEMENT SHEET (05-01-20)
35. CHANGED ALL CEILING FANS TO SHOW STANDARD LIGHT/OPT. FAN/LT PREWIRE (05-01-20)
36. UPDATED ELECTRICAL KEY ON ALL ELECTRICAL SHEETS (05-01-20)
37. CHANGED PENDANT LIGHTS OVER ISLAND TO OPTIONAL (05-01-20)
38. ADDED STANDARD 2-BULB (2x4) FLUORESCENT LIGHT IN KITCHEN (05-01-20)
39. FLOOD LIGHTS SHOWN AS OPTIONAL (05-01-20)
40. VERIFIED COACH LIGHT LOCATIONS (05-01-20)
41. UPDATED TOTAL UNDER ROOF VENT CALCULATIONS (05-01-20)

*Okm0000074*

H&H HOMES  
ROOSEVELT

DATE: APRIL 26, 2017  
REV.: MAY 01, 2020  
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ENGINEERED BY:  
REVIEWED BY:

CS

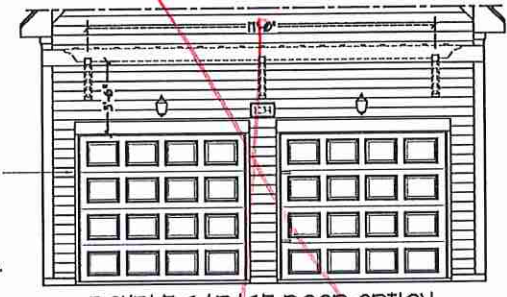


- SHINGLES AS SPEC. (TYP.)
- DECORATIVE GABLE VENT AS SPEC. (TYP.)
- 1 x 8 TRIM AS SPEC. (TYP.)
- 1 x 6 FRIEZE BOARD AS SPEC. (TYP. FRONT ELEVATION ONLY)
- SIDING AS SPEC. (TYP.)
- 1 x 8 TRIM AS SPEC.
- OPTIONAL BRACKETS AND TRELLIS AS SPEC.
- ADDRESS PLAQUE AS SPEC. (TYP.)
- 1 x 8 TRIM AS SPEC.
- EXTERIOR LIGHT AS SPEC. (TYP.)
- 1 x 6 TRIM AS SPEC. (TYP.)
- GARAGE DOOR AS PER SPECIFICATIONS, OPTIONAL GLASS INSERT (TOP PANEL ONLY)
- OPTIONAL GARAGE

**NOTE:**  
 SEE SHEET A-11 FOR BRICK FRONT ELEVATIONS  
 SEE SHEET A-12 FOR STONE FRONT ELEVATIONS  
 SEE SHEET A-13 (ALL BRICK) ELEVATIONS

*Brick*

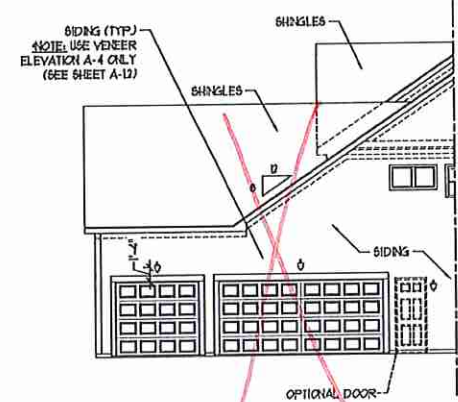
FRONT ELEVATION-A  
 SCALE: 1/4" = 1'-0"



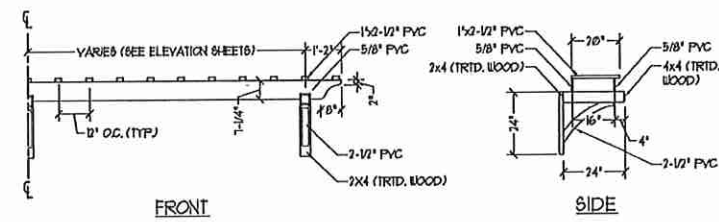
DOUBLE GARAGE DOOR OPTION  
 W/ OPTIONAL TRELLIS  
 (TRELLIS AVAILABLE WITH STANDARD SINGLE GARAGE DOOR)  
 SCALE: 1/4" = 1'-0"



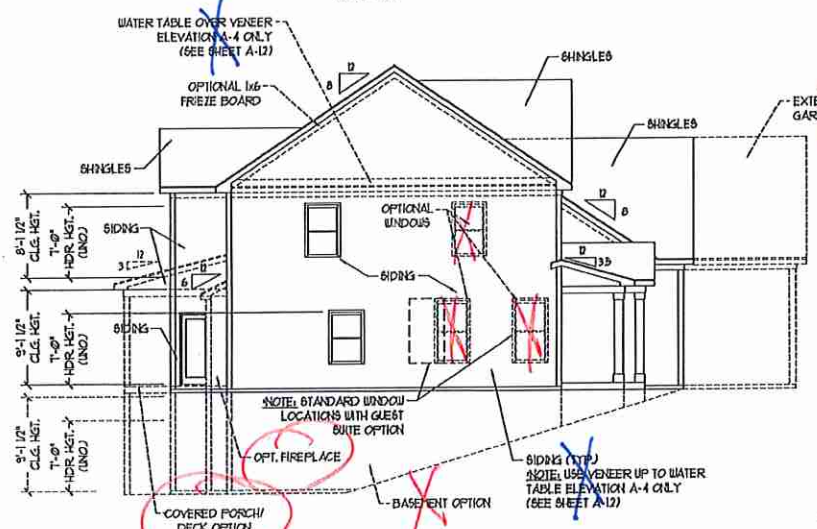
SIDE LOAD GARAGE OPTION  
 (NOT AVAILABLE WITH OPTIONAL ONE-CAR GARAGE)  
 SCALE: 1/4" = 1'-0"



PARTIAL ELEVATION  
 W/ THREE CAR GARAGE OPTION  
 SCALE: 1/8" = 1'-0"



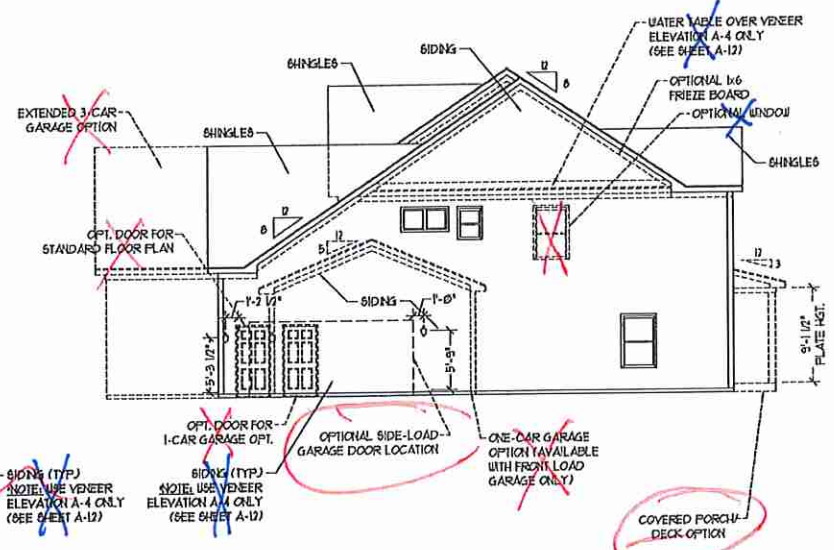
OPTIONAL TRELLIS DETAIL  
 SCALE: NTS



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

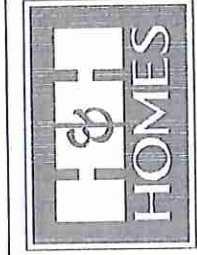


REAR ELEVATION  
 SCALE: 1/8" = 1'-0"



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

**J.S. THOMPSON ENGINEERING, INC.**  
 650 WADE AVE., SUITE 104  
 RALEIGH, NC 27608  
 PHONE: (919) 782-9216  
 FAX: (919) 782-9221  
 N.C. LICENSE NO. C-113



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 ROOSEVELT

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A-1 ELEVATION  
 A-1

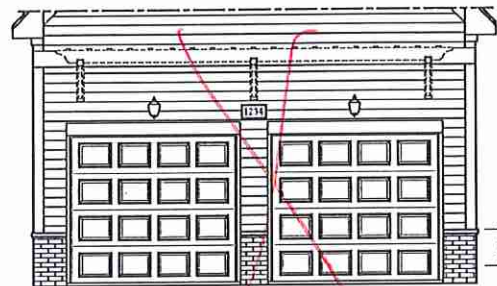
*OKM-000-074 Buyer Marked Plan*

*Jeff AV*



FRONT ELEVATION-A-2  
SCALE: 1/4" = 1'-0"

Brick



DOUBLE GARAGE DOOR OPTION  
W/ OPTIONAL TRELLIS  
(TRELLIS AVAILABLE WITH STANDARD SINGLE GARAGE DOOR)  
SCALE: 1/4" = 1'-0"



SIDE LOAD  
GARAGE OPTION  
(NOT AVAILABLE WITH OPTIONAL ONE-CAR GARAGE)  
SCALE: 1/4" = 1'-0"

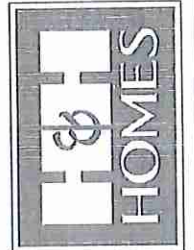
OPTIONAL BRACKETS  
AND TRELLIS AS SPEC.



FRONT ELEVATION-A-3  
SCALE: 1/4" = 1'-0"

VENEER LEDGE  
AS SPEC. (TYP)

**J.S. THOMPSON**  
ENGINEERING, INC.  
600 WADE AVE. SUITE 104  
RALEIGH, NC 27605  
PHONE: (919) 884-9119  
FAX: (919) 887-9221  
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SCALE: AS NOTED

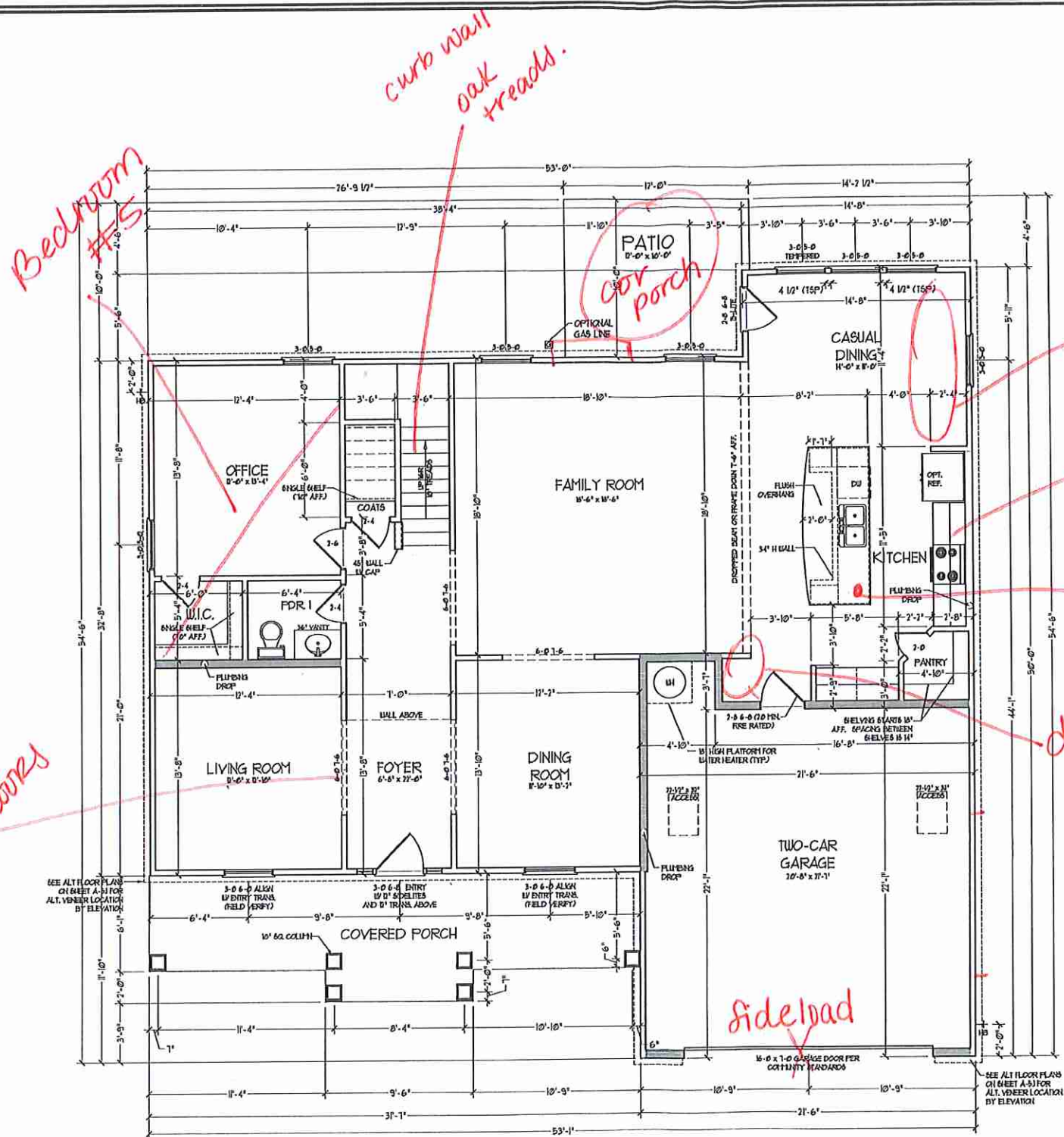
DRAWN BY:

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A-2 & A-3  
ELEVATIONS W/  
STONE

A-1.1



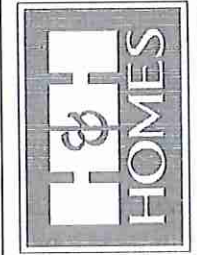
SQUARE FOOTAGE	
1st FLOOR	1847 SQ. FT.
2nd FLOOR	1663 SQ. FT.
TOTAL	3,510 SQ. FT.
GARAGE	
FRONT PORCH (A ELEVATION)	207 SQ. FT.
FRONT PORCH (B ELEVATION)	207 SQ. FT.
FRONT PORCH (C ELEVATION)	193 SQ. FT.
STANDARD REAR PATIO	81 SQ. FT.
OPTIONAL BASEMENT	1433 SQ. FT.
1st FLOOR OPTIONS	
OPTIONAL PREFRACE	19 SQ. FT.
UNHEATED OPTIONS	
OPT 1-CAR GARAGE	240 SQ. FT.
OPT 2-CAR X 10'-0" PORCH	80 SQ. FT.
OPT COVERED REAR PORCH	81 SQ. FT.
OPT 3-CAR SIDE ENTRY GARAGE	201 SQ. FT.

SQUARE FOOTAGE W/ FULL BRICK VENEER	
1st FLOOR	1646 SQ. FT.
2nd FLOOR	1517 SQ. FT.
TOTAL	3363 SQ. FT.
GARAGE	
FRONT PORCH (A ELEVATION)	48 SQ. FT.
FRONT PORCH (B ELEVATION)	207 SQ. FT.
FRONT PORCH (C ELEVATION)	193 SQ. FT.
STANDARD REAR PATIO	81 SQ. FT.
OPTIONAL BASEMENT	1444 SQ. FT.
1st FLOOR OPTIONS	
OPTIONAL PREFRACE	14 SQ. FT.
UNHEATED OPTIONS	
OPT 1-CAR GARAGE	226 SQ. FT.
OPT 2-CAR X 10'-0" PORCH	80 SQ. FT.
OPT COVERED REAR PORCH	81 SQ. FT.
OPT 3-CAR SIDE ENTRY GARAGE	140 SQ. FT.

NOTES: ALL EXTERIOR WALLS AND ATIC WALLS ARE TO BE 2 x 4 @ 16" O.C. (UNCL). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 x 4 @ 16" O.C. (UNCL) AND HIGH-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNCL).  
 2x6 WALL  
 \* UNCLAD WALLS ARE TO BE 2 x 6 @ 16" O.C. (LOAD BEARING) OR 2 x 8 @ 24" O.C. (NON-LOAD BEARING) REGARDLESS OF EXTERIOR WALL CONDITION

PROVIDE MINIMUM INSULATION IN CEILINGS AND WALLS PER SECTION N 102.1

J.S. THOMPSON  
 ENGINEER & ARCHITECT  
 100 W. WALKER AVE., SUITE 101  
 RALEIGH, NC 27605  
 PHONE: (919) 261-9919  
 FAX: (919) 261-9923  
 N.C. LICENSE NO. C-1133



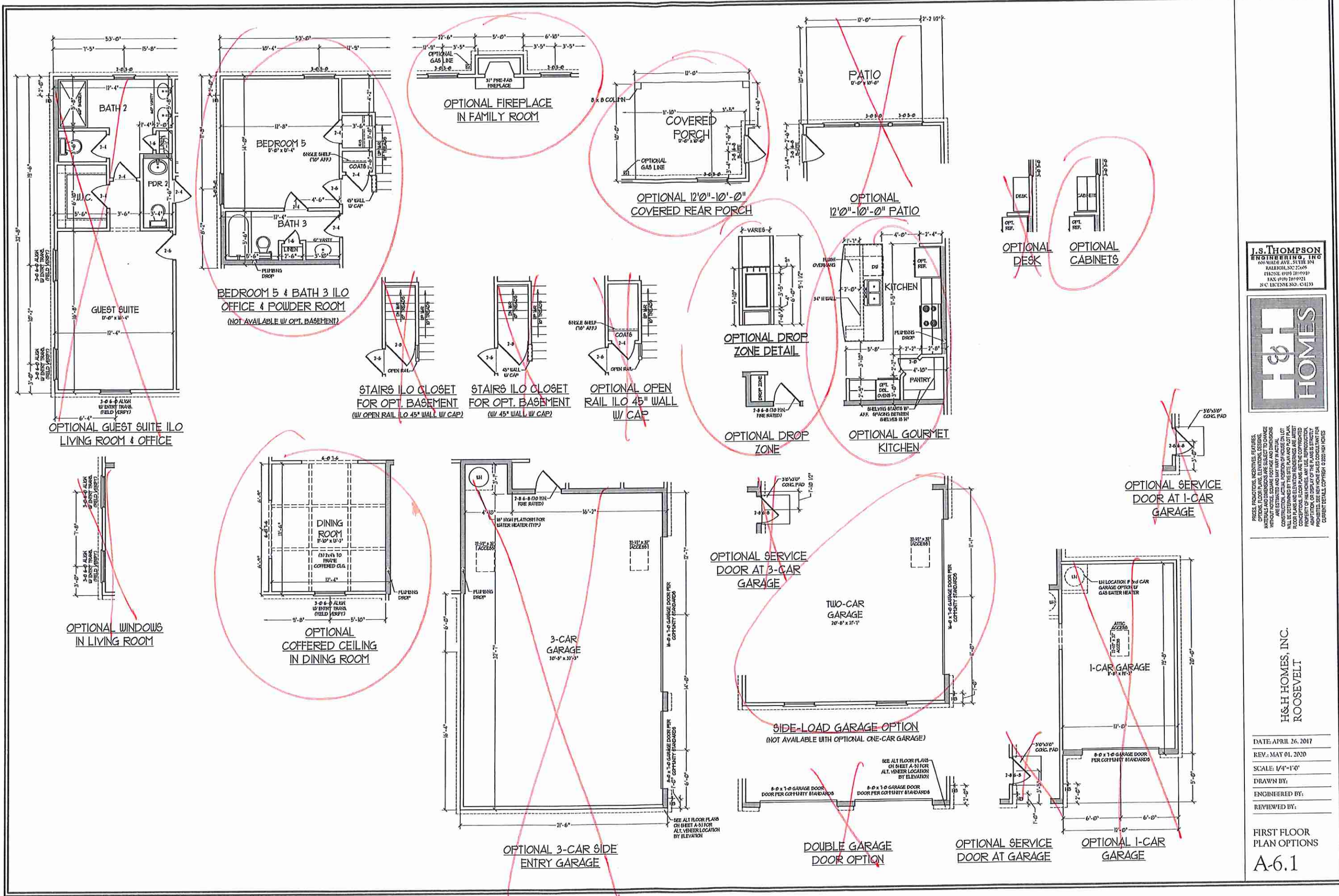
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 ROOSEVELT

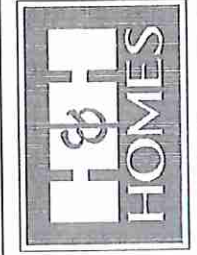
DATE: APRIL 26, 2017  
 REV.: MAY 01, 2020  
 SCALE: 1/4"=1'-0"  
 DRAWN BY:  
 ENGINEERED BY:  
 REVIEWED BY:

FIRST FLOOR PLAN  
 A-6

AL JGP



**J.S. THOMPSON ENGINEERING, INC.**  
 666 WADE AVE., SUITE 104  
 RALEIGH, NC 27605  
 PHONE: (919) 280-9900  
 FAX: (919) 280-9921  
 N.C. LICENSE NO. CE113

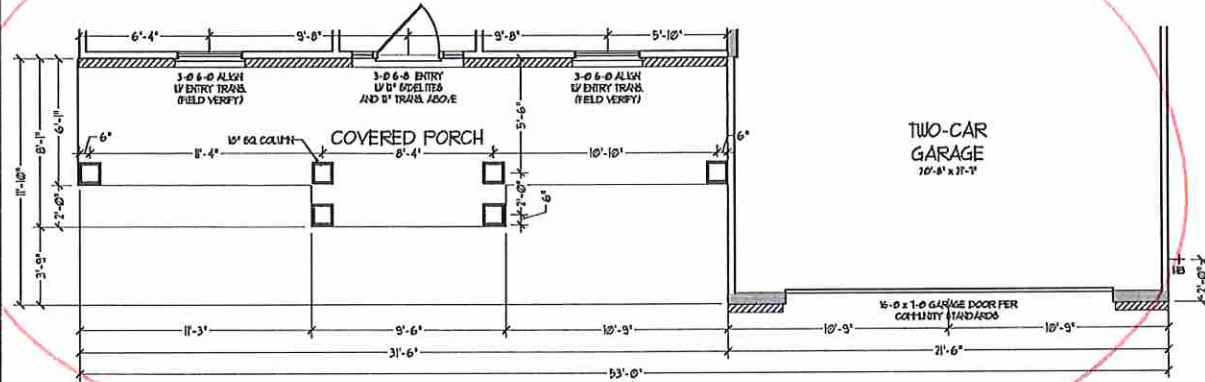


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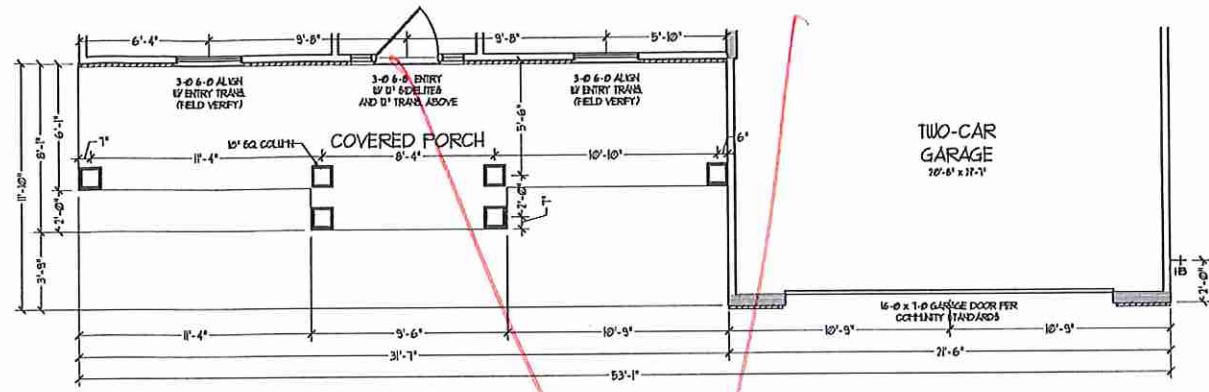
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**ROOSEVELT**

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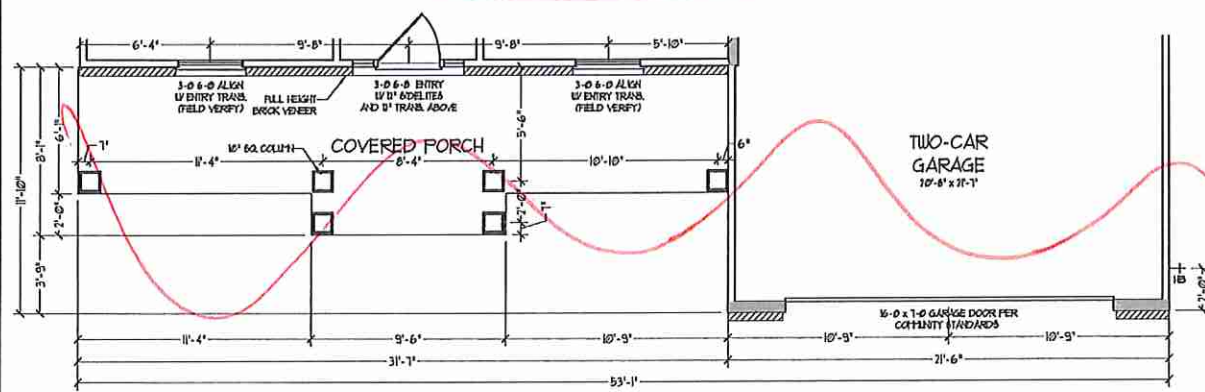
FIRST FLOOR PLAN OPTIONS  
**A-6.1**



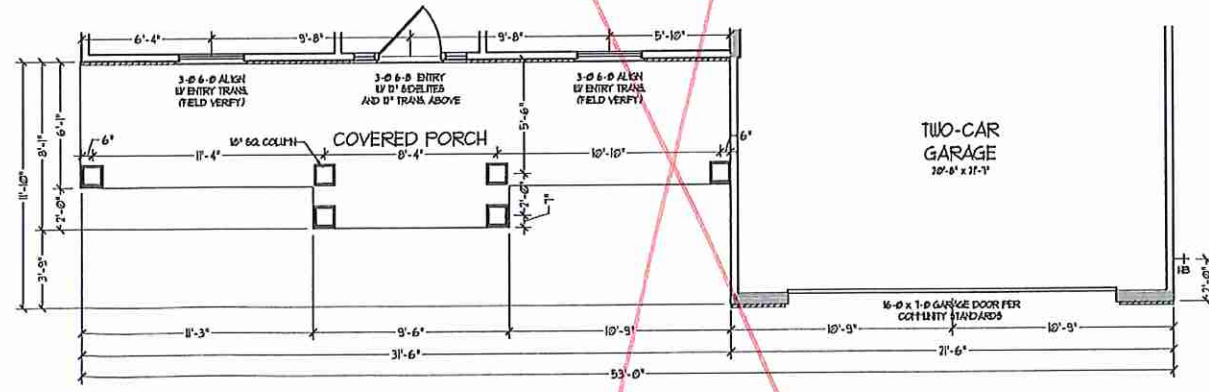
ELEVATION A-2  
(WITH BRICK)



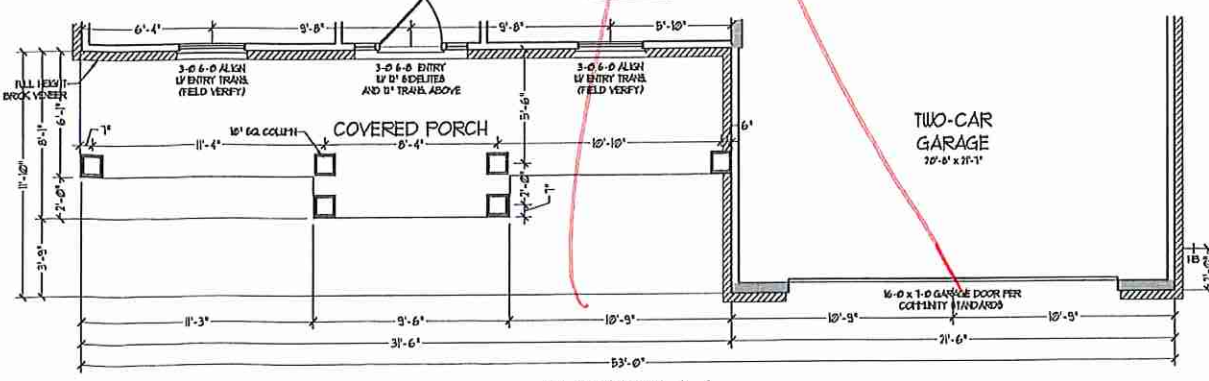
ELEVATION A-2  
(WITH STONE)



ELEVATION A-3  
(WITH BRICK)

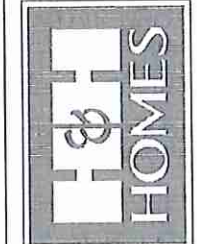


ELEVATION A-3  
(WITH STONE)



ELEVATION A-4  
(WITH STONE)

J.S. THOMPSON  
REGISTERED ARCHITECT  
685 WARE AVE. SUITE 104  
RALEIGH, NC 27605  
PHONE: (919) 885-9198  
FAX: (919) 789-9921  
N.C. LICENSE NO. C4133

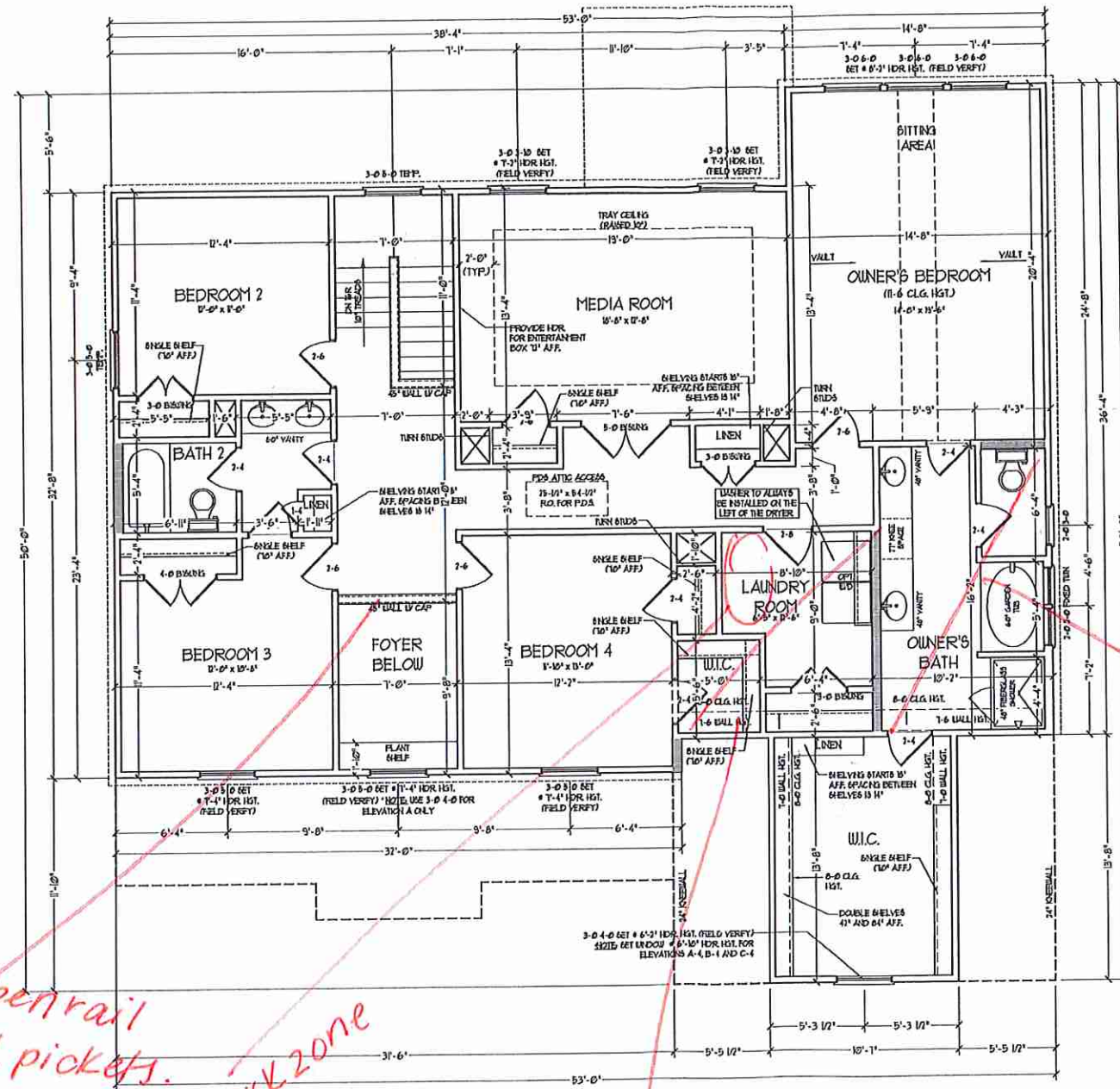


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FIRST FLOOR  
PARTIAL PLANS -  
A ELEVATIONS

A-6.2

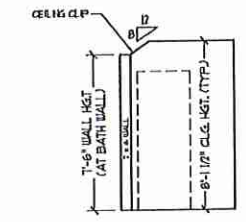


open rail wood pickets.  
work zone

Bath #4

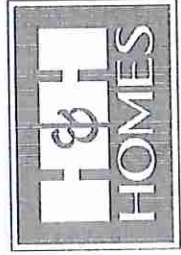
NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 4 @ 16" O.C. (AND) ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 x 4 @ 16" O.C. (AND) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 16" O.C. (AND).  
WALL  
UNGRADED WALLS ARE TO BE 2 x 6 @ 16" O.C. (LOAD BEARING) OR 2 x 6 @ 24" O.C. (NON-LOAD BEARING) REGARDLESS OF EXTERIOR WALL CONDITION.  
\* PROVIDE MINIMUM INSULATION IN CEILING AND WALLS PER SECTION N 11021

Owner's Bath #2



CLIPPED CEILING OWNER'S BATH AND BEDROOM 4 BATH

J.S. THOMPSON ENGINEERING, INC.  
628 WADE AVE. SUITE 104  
RALEIGH, NC 27605  
PHONE: (919) 289-9246  
FAX: (919) 783-9221  
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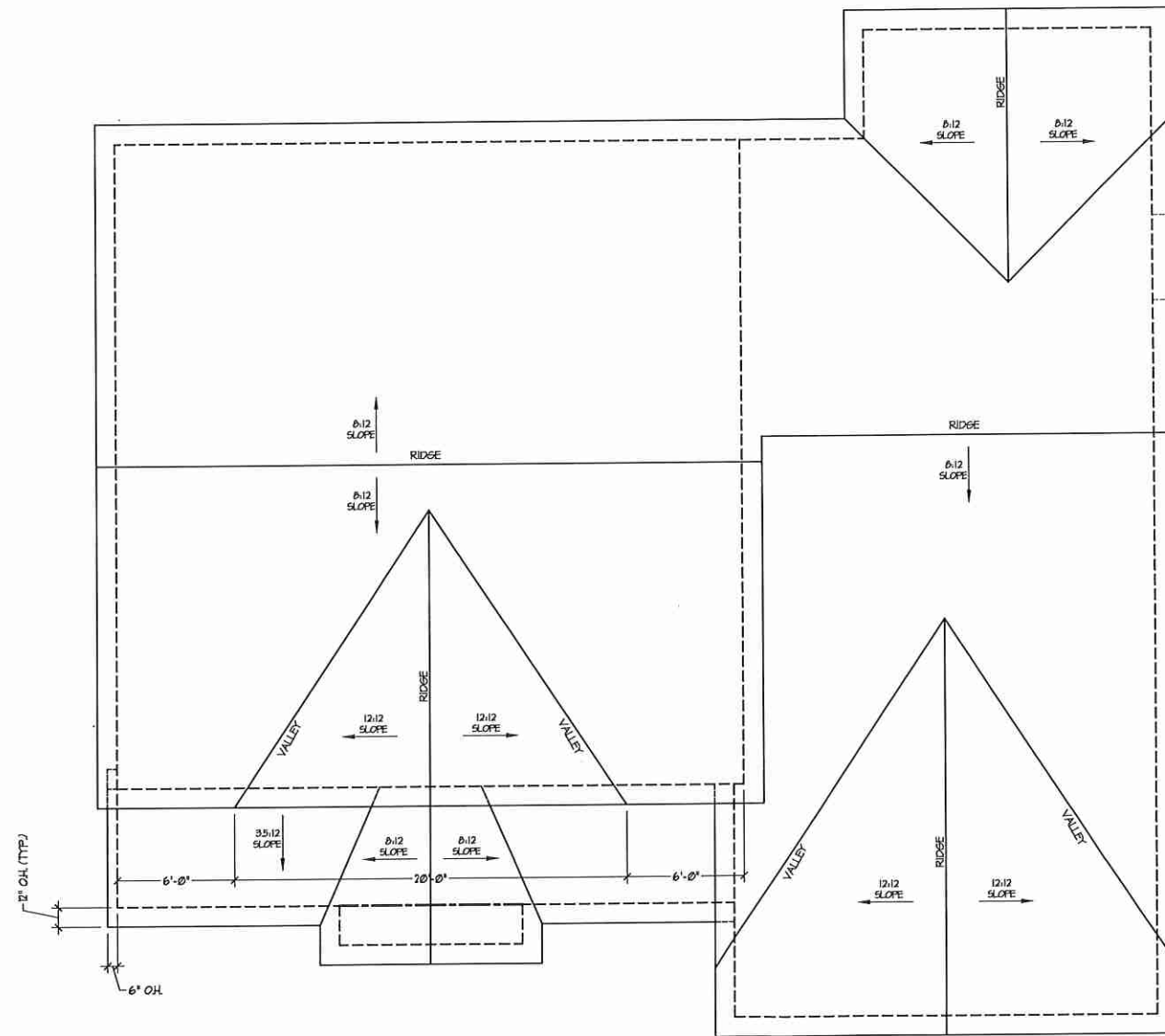
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ENGINEERED BY:  
REVIEWED BY:

SECOND FLOOR PLAN  
A-7

AL [Signature]







ROOF PLAN

TOTAL UNDER ROOF AREA: 1918 SQ. FT. / 300 = 6.39 SQ. FT.  
 VENTING AREA REQUIRED: 1918 SQ. FT. / 300 = 6.39 SQ. FT.  
 TOTAL REQUIREMENTS: LOWER: 3.19 UPPER: 3.19

LOWER AREA VENTING

SOFFIT VENT	SIZE:	PER UNIT:	# UNITS:	PROVIDED:
	-	.041 SF/LF	79'-0"	3.239
LOWER AREA VENTING PROVIDED:				-

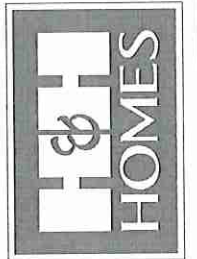
UPPER AREA VENTING

RIDGE VENT	SIZE:	PER UNIT:	# UNITS:	PROVIDED:
	-	.125 SF/LF	82'-0"	10.25
UPPER AREA VENTING PROVIDED:				-

TOTAL AREA PROVIDED

SOFFIT AND RIDGE VENT	13.489
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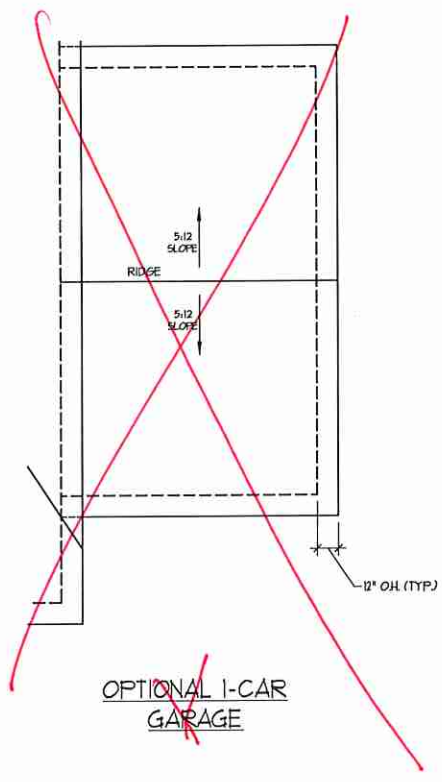
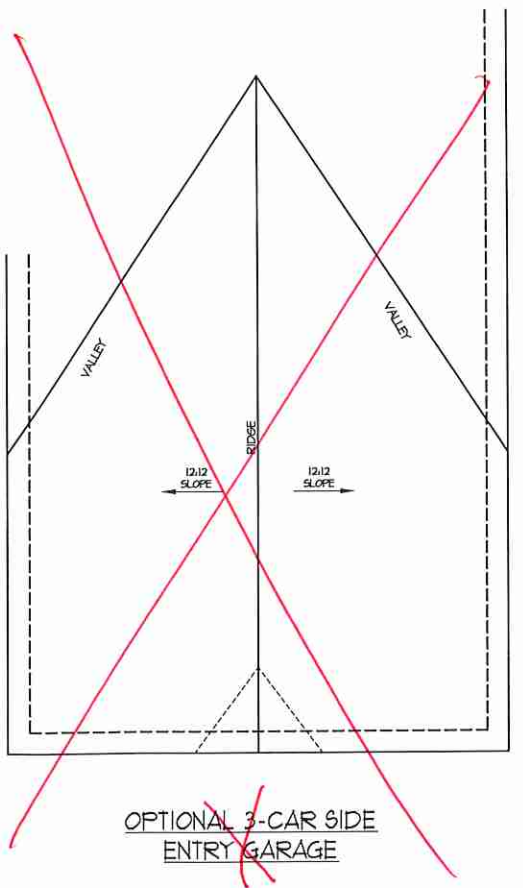
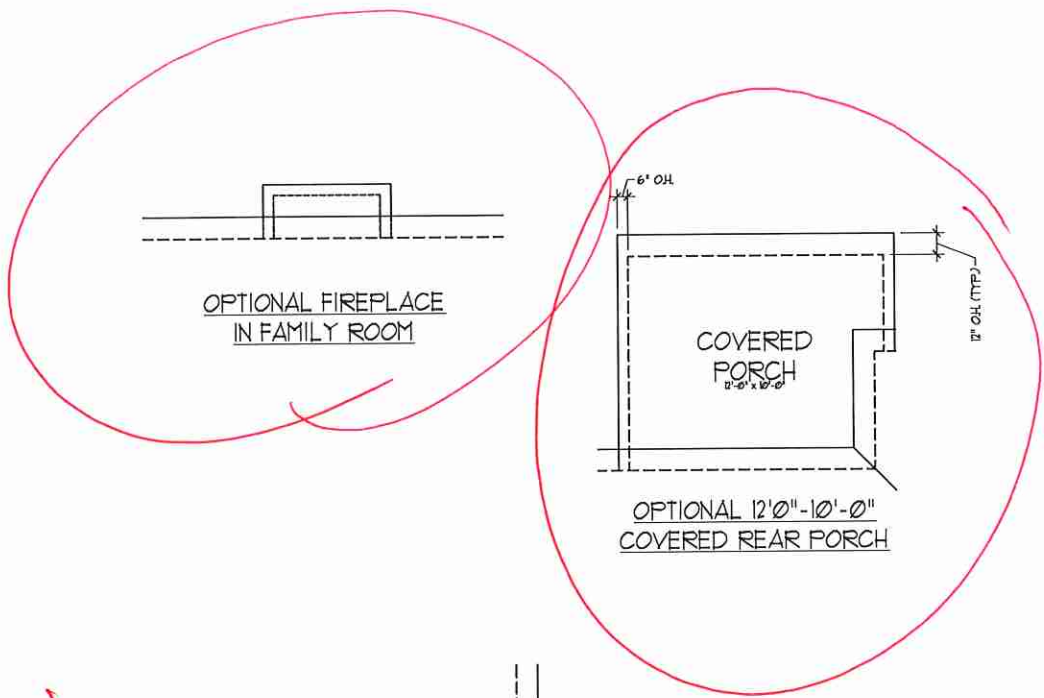
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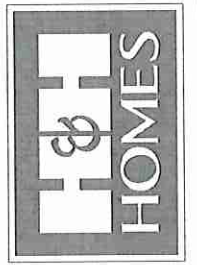
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ROOSEVELT

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 ENGINEERED BY:  
 REVIEWED BY:



**J.S. THOMPSON  
ENGINEERING, INC.**  
100 WADE AVE., SUITE 104  
RALEIGH, NC 27605  
PHONE: (919) 286-0910  
FAX: (919) 286-0921  
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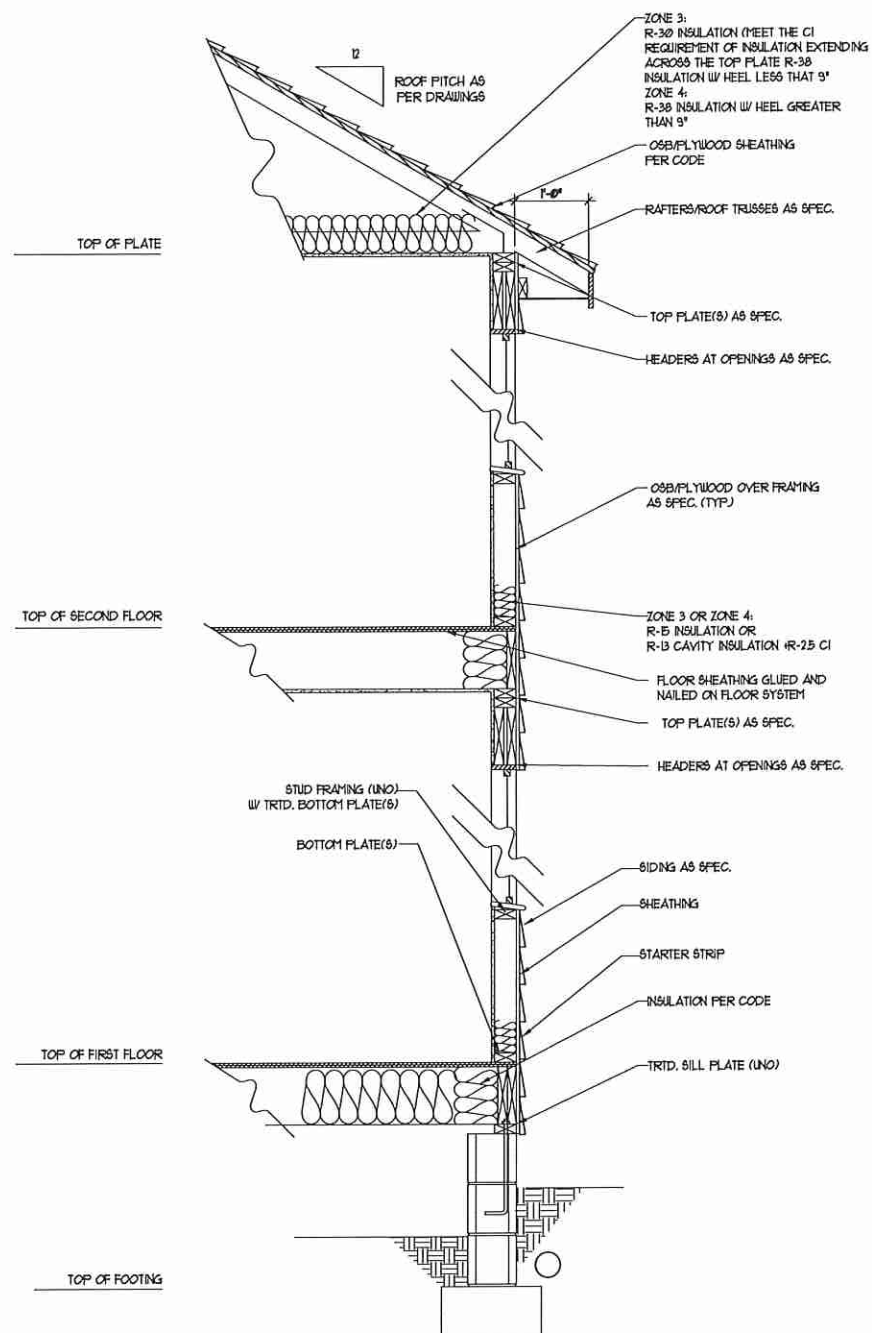


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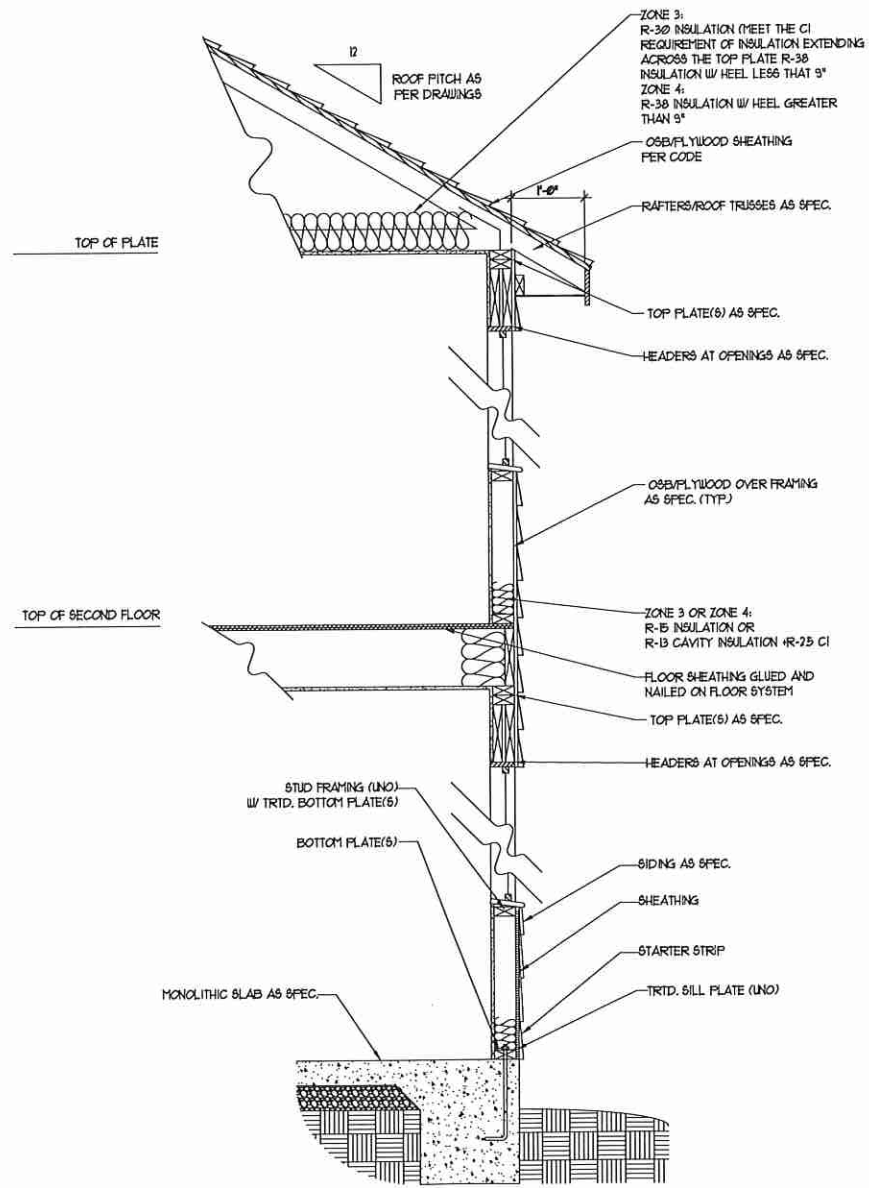
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ROOSEVELT

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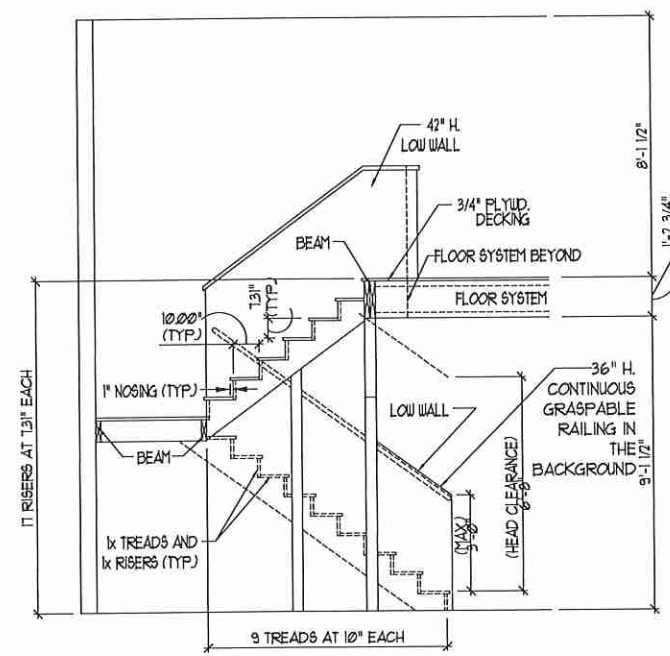
ROOF PLANS -  
OPTIONS  
A-8.2



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



WALL SECTION W/ SLAB  
W/ STD. SIDING SHOWN (NTS)



TYPICAL STAIR DETAIL  
(NTS)

\* \* \* \* \*

**STAIR NOTES:**

**RAILING:**

BALUSTERS SHALL BE SPACED SO THAT A 4" SPHERE CANNOT PASS THROUGH.

THE TRIANGULAR OPENINGS FORMED BY THE RISER, TREAD AND BOTTOM RAIL OF A GUARD AT THE OPEN SIDE OF A STAIRWAY ARE PERMITTED TO BE A SUCH A SIZE THAT A SPHERE OF 6 INCHES CANNOT PASS THROUGH.

OPENINGS FOR REQUIRED GUARDS ON THE SIDES OF STAIR TREADS SHALL NOT ALLOW A SPHERE 4 3/8 INCHES TO PASS THROUGH.

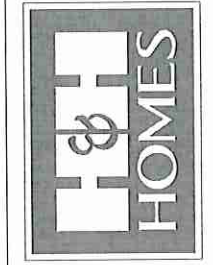
**HANDRAILS:**

HANDRAILS FOR STAIRWAYS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE FLIGHT, FROM A POINT DIRECTLY ABOVE THE TOP RISER OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOWEST RISER. HANDRAIL ENDS SHALL BE RETURNED OR SHALL TERMINATE IN NEEL POSTS OR SAFETY TERMINALS. HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1/2 INCH BETWEEN THE WALL AND HANDRAILS.

CONTINUOUS GRASPABLE HANDRAIL MUST MEET TYPE ONE OR TYPE TWO CRITERIA

\* \* \* \* \*

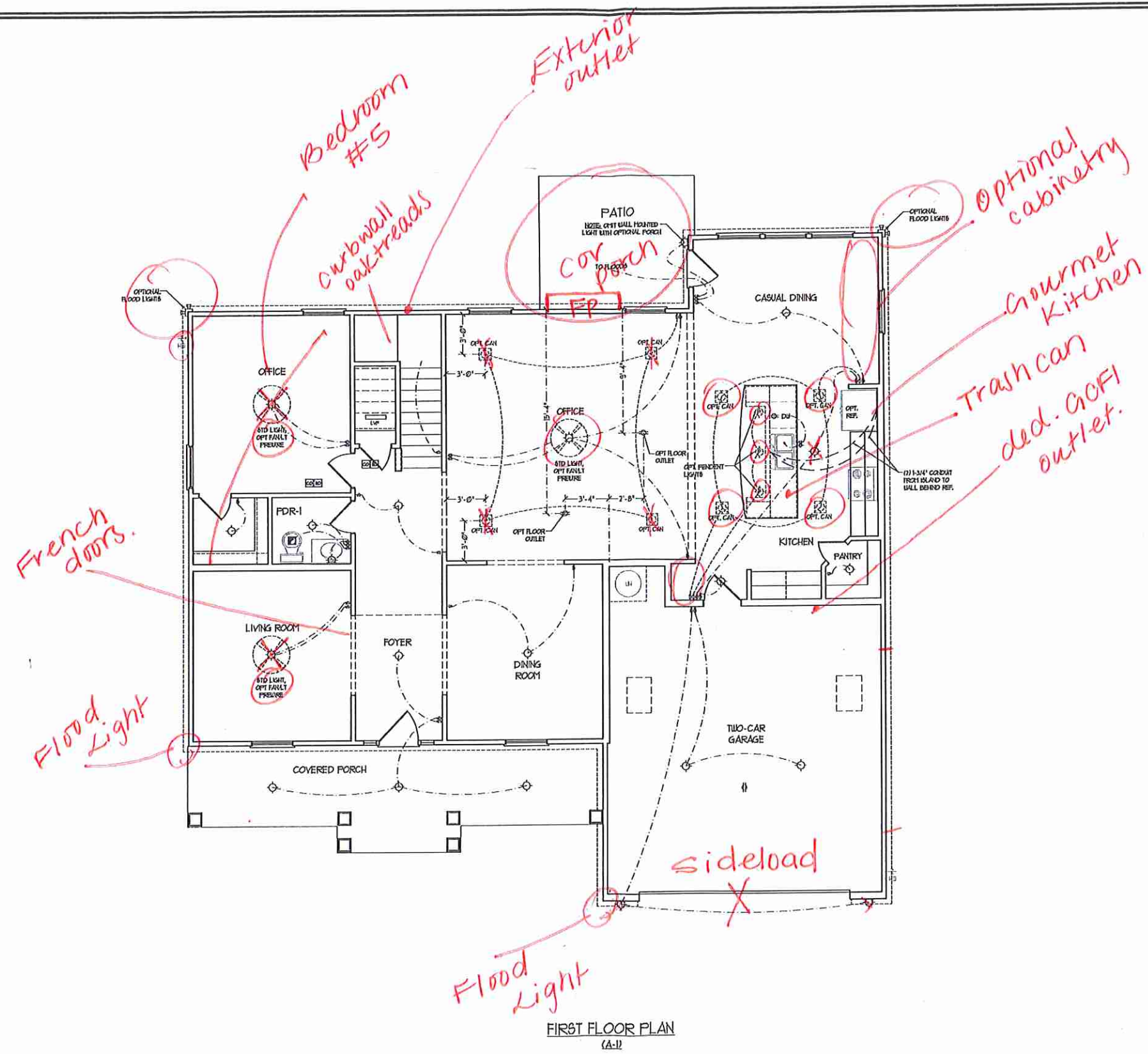
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WALL SECTIONS  
AND STAIR  
DETAIL  
AD-1



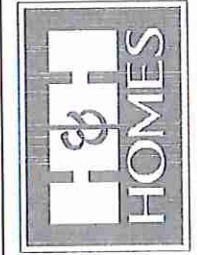
FIRST FLOOR PLAN  
(A-1)

- ELECTRICAL LAYOUT NOTES:**
- 1) BLOCK AND USE FOR ALL CEILING FANS PER PLAN
  - 2) VANTY LIGHTS TO BE SET @ 30" AFF. (TYP)
  - 3) ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN
  - 4) PLACE OUTLETS 6" FROM FRONT ROUGH OPENING.

**ELECTRICAL LEGEND**

	120 V OUTLET
	WALL MOUNT LIGHT
	CEILING MOUNT LIGHT
	PENDANT LIGHT
	RECESSED CAN LIGHT
	MINI CAN LIGHT
	EYEBALL LIGHT
	FLUORESCENT LIGHT
	2 LAYER, 4' FLUORESCENT LIGHT
	FLOOD LIGHT
	SWITCH
	3-WAY SWITCH
	4-WAY SWITCH
	DIMMER SWITCH
	CONDUIT FOR COMPONENT WIRING
	GFI BREAKER
	DOORBELL CHIME
	120 V SMOKE DETECTOR
	CO DETECTOR
	EXHAUST FAN
	LOW VOLTAGE PANEL
	CEILING FAN
	CEILING FAN w/ LIGHT

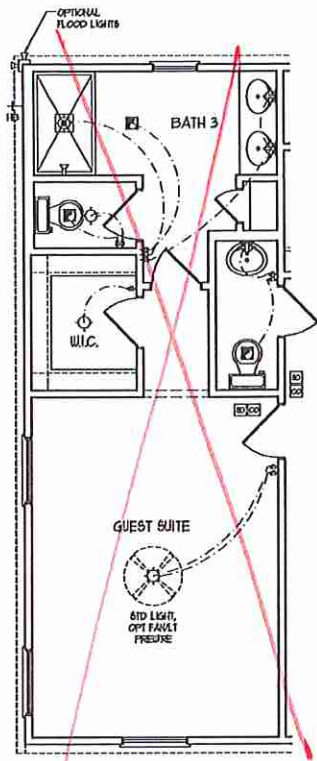
**J.S. THOMPSON ENGINEERING, INC.**  
 150 WARD AVE., SUITE 104  
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 PHONE: (919) 281-1919  
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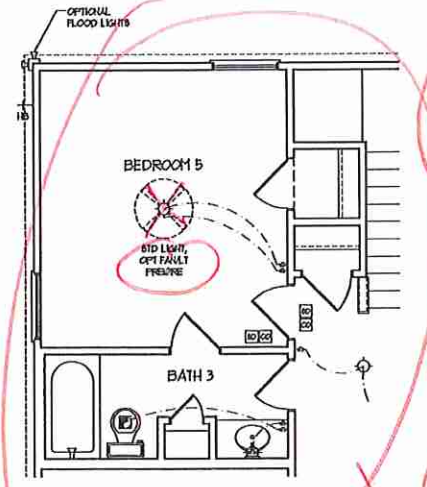
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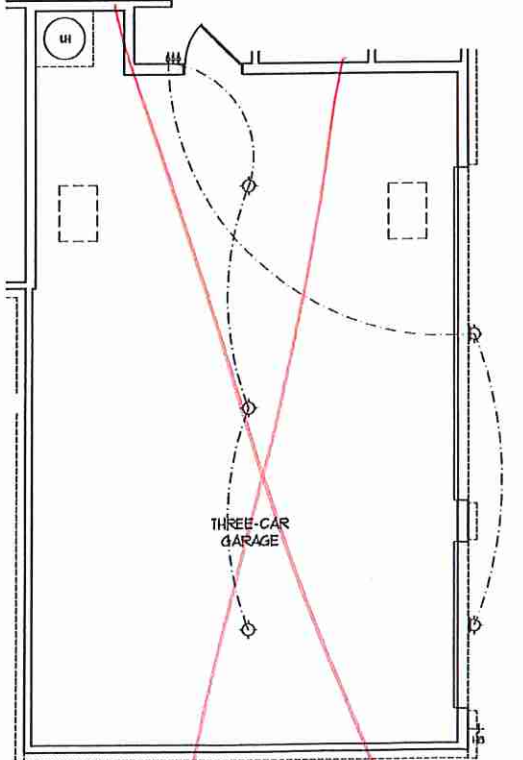
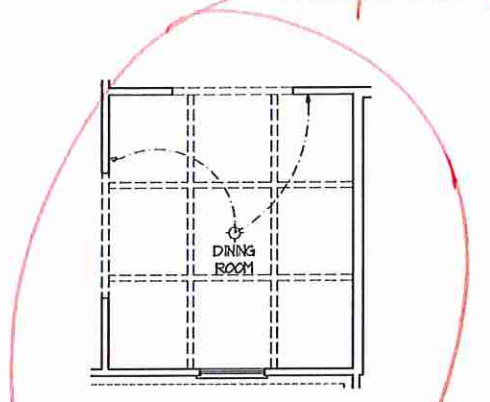
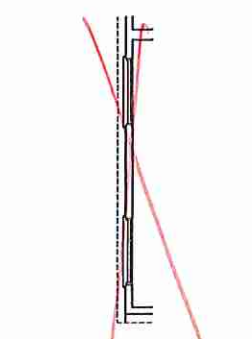
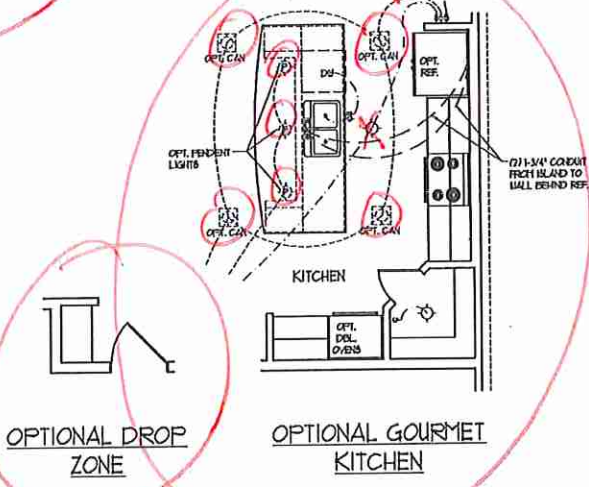
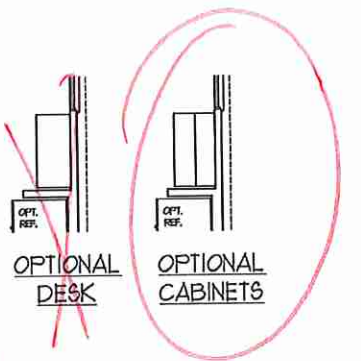
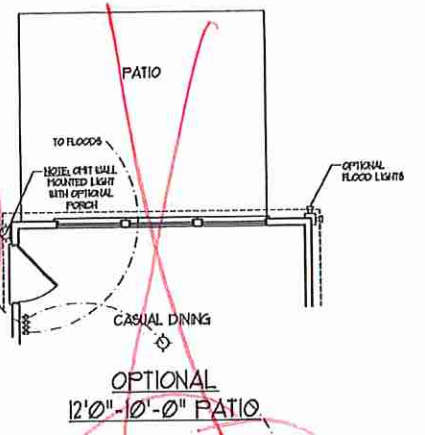
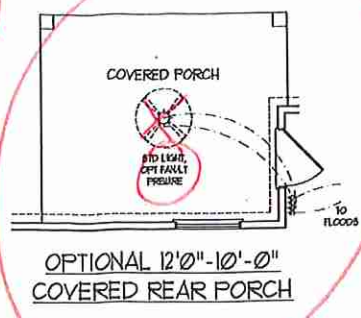
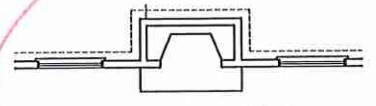
DATE: APRIL 26, 2017  
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 SCALE: 1/4"=1'-0"  
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 ENGINEERED BY:  
 REVIEWED BY:  
 FIRST FLOOR ELECTRICAL PLAN  
 E-1



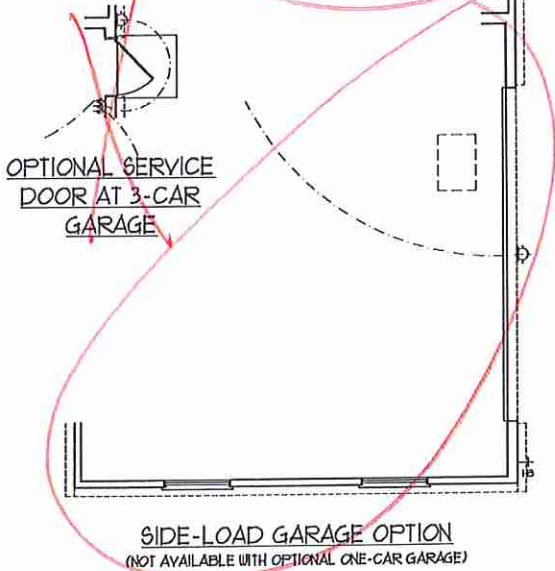
OPTIONAL GUEST SUITE ILO LIVING ROOM & OFFICE



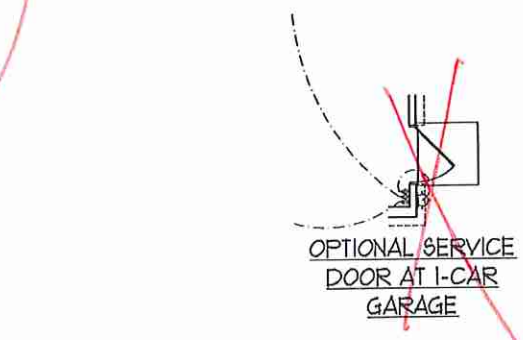
OPTIONAL FIREPLACE IN FAMILY ROOM



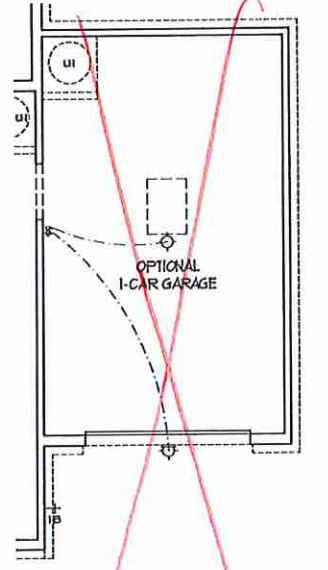
OPTIONAL 3-CAR SIDE ENTRY GARAGE



DOUBLE GARAGE DOOR OPTION

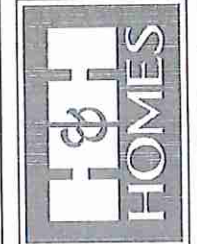


OPTIONAL SERVICE DOOR AT GARAGE



OPTIONAL 1-CAR GARAGE

J.S. THOMPSON ENGINEERING, INC.  
600 WADE AVE., SUITE 104  
RALEIGH, NC 27605  
PHONE: (919) 284-9900  
FAX: (919) 284-9921  
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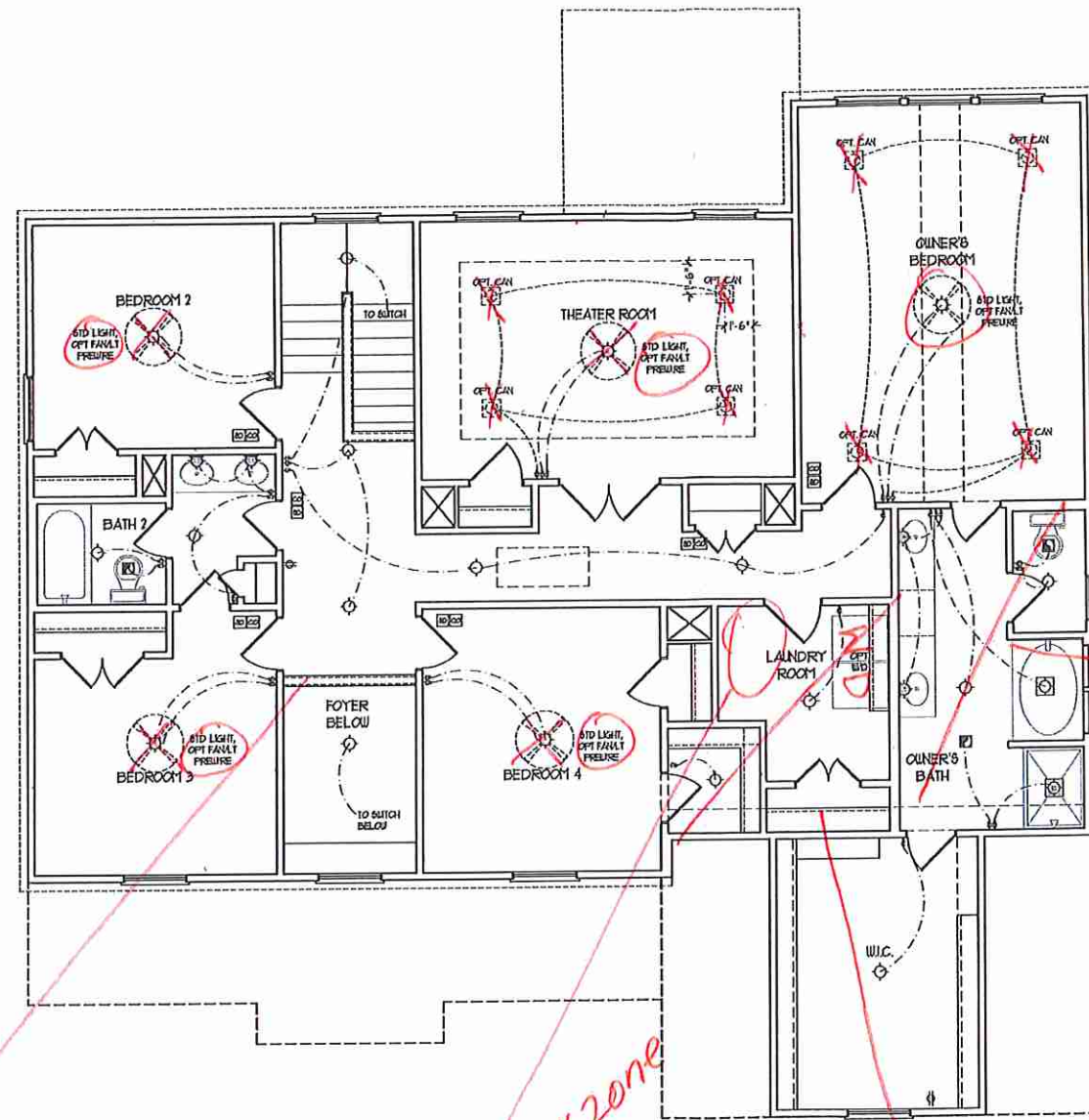


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R.F. ELECTRICAL PLAN OPTIONS  
E-1.1



*open rail  
wood pickets*

*work zone*

*owner's  
Bath #2*

*Bath #4*

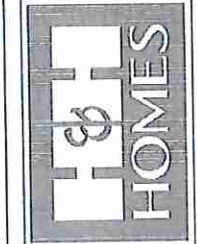
SECOND FLOOR PLAN

**ELECTRICAL LAYOUT NOTES:**  
 1) BLOCK AND USE FOR ALL CEILING FANS PER PLAN  
 2) VANTY LIGHTS TO BE SET @ 50' AFF. (TYP)  
 3) ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN  
 4) PLACE SWITCHES 6" FROM FINISH ROUGH OPENING

**ELECTRICAL LEGEND**

	80 V OUTLET
	WALL MOUNT LIGHT
	CEILING MOUNT LIGHT
	PENDANT LIGHT
	RECESSED CAN LIGHT
	MINI CAN LIGHT
	EYEBALL LIGHT
	FLUORESCENT LIGHT
	2 LAY, 4 FLUORESCENT LIGHT
	FLOOD LIGHT
	SWITCH
	3-WAY SWITCH
	4-WAY SWITCH
	DIMMER SWITCH
	CONDUIT FOR CONDUIT BENDS
	SPEAKER
	DOORBELL CHIME
	80 V SMOKE DETECTOR
	CO DETECTOR
	EXHAUST FAN
	LOW VOLTAGE PANEL
	CEILING FAN
	CEILING FAN w/ LIGHT

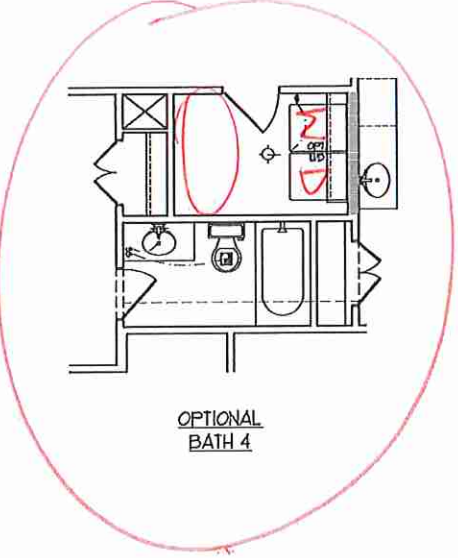
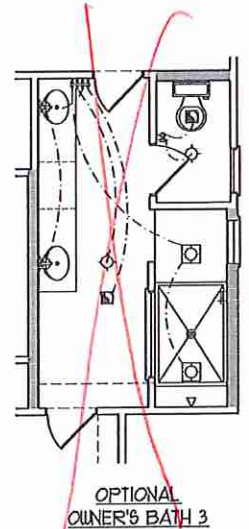
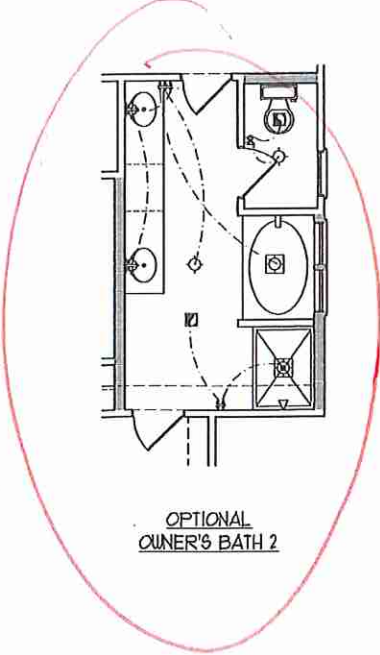
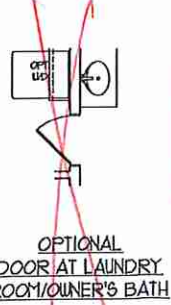
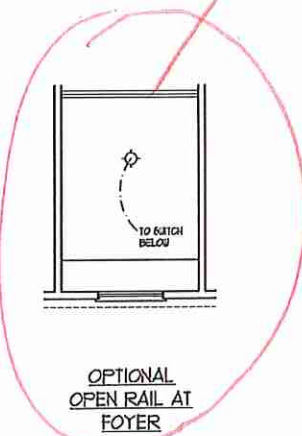
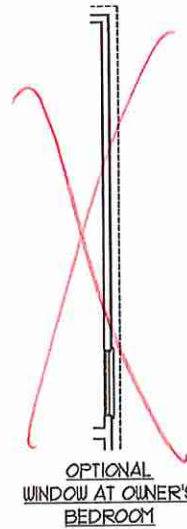
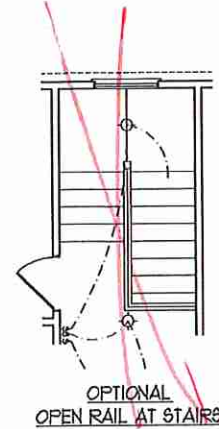
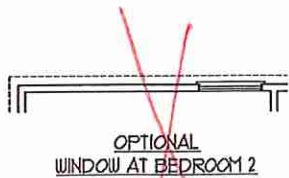
**J.S. THOMPSON  
ENGINEERING, INC.**  
 65 WADE AVE., SUITE 104  
 RALEIGH, NC 27605  
 PHONE: (919) 286-9110  
 FAX: (919) 781-9221  
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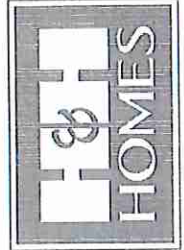
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 REVIEWED BY:  
 SECOND FLOOR  
 ELECTRICAL  
 PLAN  
 E-2



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 656 WADE AVE. SUITE 104  
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 PHONE: (919) 281-9919  
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 ENGINEERED BY:  
 REVIEWED BY:  
 SECOND FLOOR ELECTRICAL PLAN - OPTIONS

E-2.1

*Log AIL*

**FOUNDATION VENTILATION CALCULATION**  
 1169 SQ. FT. OF CRAWL SPACE DIVIDED BY 620 EQUALS 17.56 FT. OF NET FREE AREA REQUIRED. INSTALL 6 MIL. POLY TO COVER ENTIRE CRAWL SPACE. LOCATE VENTS WITHIN 3'-0" OF EACH CORNER OF THE BUILDING TO PROVIDE CROSS-VENTILATION.

**70 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, 2018 EDITION.
- INSTALL 1/2" ANCHOR BOLTS 6" 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 WITH MIDDLE THIRD OF PLATE WIDTH.
- MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
- EXTERIOR WALLS DESIGNED FOR 10 MPH WINDS.
- WALL CLADDING DESIGNED FOR 45 PSF AND -20 PSF (V- INDICATE POSITIVE / NEGATIVE PRESSURE (TYP)).
- ROOF CLADDING DESIGNED FOR 40 PSF AND -15 PSF FOR ROOF PITCHES 1/2 TO 2/12 AND 45 PSF AND -35 PSF FOR ROOF PITCHES 2 1/2 TO 1/2.
- 1/4" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORES IN ACCORDANCE WITH SECTION R602.3 OF THE NRC, 2018 EDITION. SEE THE WALL BRACKING NOTES AND DETAILS SHEET FOR MORE INFORMATION.
- ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 8 OF THE NRC, 2018 EDITION.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

**50 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, 2018 EDITION WITH SPECIAL CONSIDERATION TO CHAPTER 48 (HIGH WIND ZONES) FOR 50 MPH WINDS.
- BUILDER IS TO PROVIDE FRAMING CONNECTIONS AS REQUIRED BY CHAPTER 48 (HIGH WIND ZONES) FOR 50 MPH WINDS) OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- FOUNDATION ANCHORAGE TO COMPLY WITH SECTION 404 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
- WALL CLADDING DESIGNED FOR 40 PSF AND -30 PSF (V- INDICATE POSITIVE / NEGATIVE PRESSURE (TYP)).
- ROOF CLADDING DESIGNED FOR 40 PSF AND -20 PSF FOR ROOF PITCHES 1/2 TO 2/12 AND 45 PSF AND -35 PSF FOR ROOF PITCHES 2 1/2 TO 1/2.
- 1/4" OSB SHEATHING IS REQUIRED ON ALL EXTERIOR WALLS.
- WALLS TO BE BRACED IN ACCORDANCE WITH SECTION R602.3 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION AND AS NOTED ON PLANS.
- ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 8 OF THE NRC, 2018 EDITION.

**STRUCTURAL NOTES:**

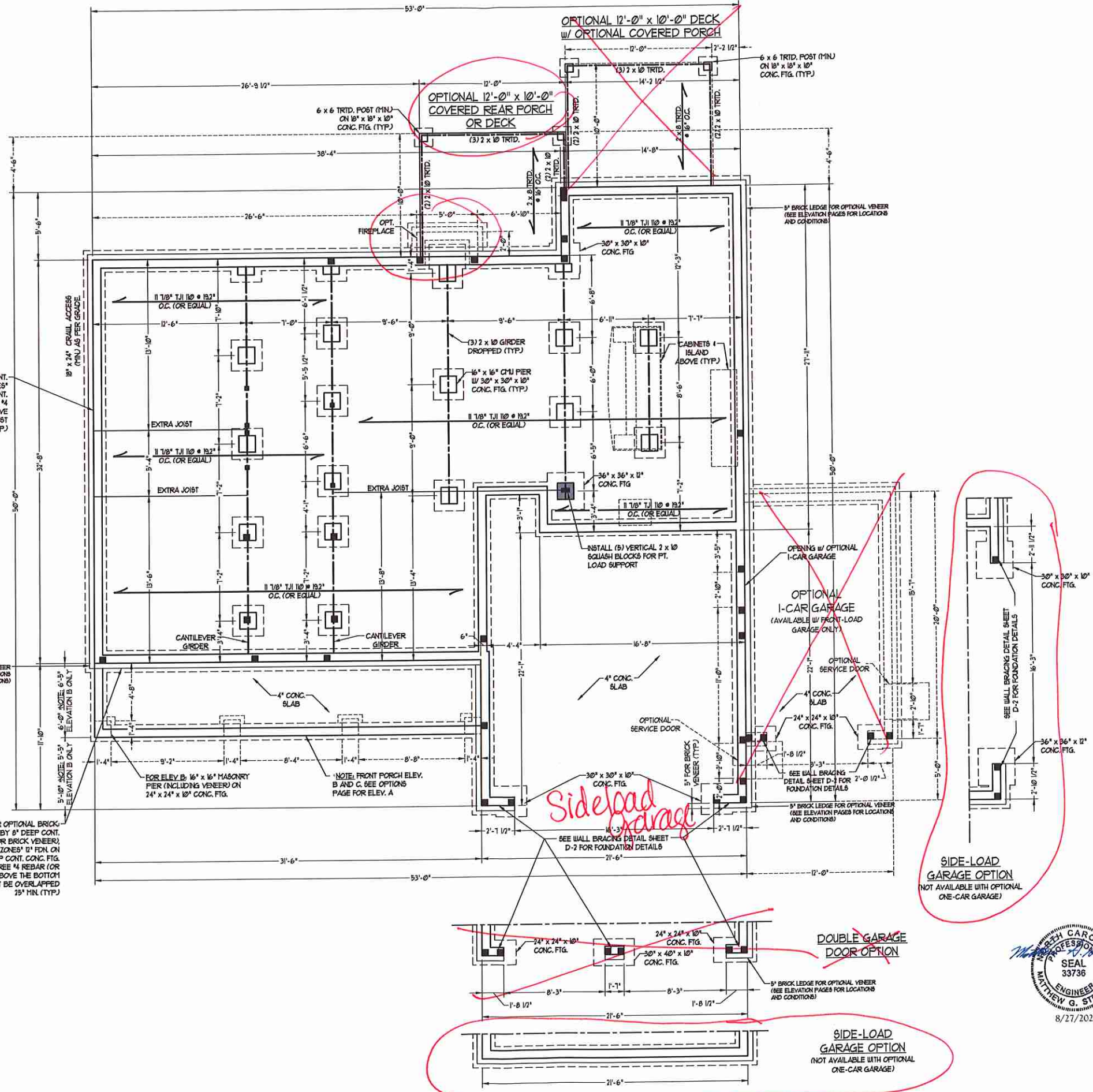
- ALL FRAMING LUMBER TO BE 1/2 SPP (UND). ALL TREATED LUMBER TO BE 1/2 SYP (UND).
- INSTALL AN EXTRA OR DOUBLE JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION.
- SHADED PIERS TO BE FILLED SOLID.
- INSTALL LADDER WIRE # 16" O.C. TO SECURE MULTIPLE UTHE FOUNDATION WALLS TOGETHER. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

NOTE: ECI 4500A-18 JOISTS MAY BE INSTALLED IN LIEU OF TJI 110 JOISTS AT THE DEPTH AND SPACING INDICATED ON THE PLAN

8" FDN ON 16" WIDE BY 8" DEEP CONT. CONC. FIG. (TYP.) OR FOR "HIGH WIND ZONES" 8" FDN ON 24" WIDE BY 8" DEEP CONT. CONC. FIG. REINFORCED W/ THREE #4 REBAR (OR TWO #5 BARS) AT 3" ABOVE THE BOTTOM OF THE FIG. SPLICES MUST BE OVERLAPPED 25" MIN. (TYP.)

5" BRICK LEDGE FOR OPTIONAL VENEER (SEE ELEVATION PAGES FOR LOCATIONS AND CONDITIONS)

FOR OPTIONAL BRICK: 12" FDN ON 20" WIDE BY 8" DEEP CONT. CONC. FIG. (TYP. FOR BRICK VENEER) OR FOR "HIGH WIND ZONES" 12" FDN ON 24" WIDE BY 8" DEEP CONT. CONC. FIG. REINFORCED WITH THREE #4 REBAR (OR TWO #5 BARS) AT 3" ABOVE THE BOTTOM OF THE FIG. SPLICES MUST BE OVERLAPPED 25" MIN. (TYP.)



**J.S. THOMPSON ENGINEERING, INC.**  
 600 WADE AVE., SUITE 104 RALEIGH, NC 27605  
 PHONE: (919) 789-9919 FAX: (919) 789-9921  
 N.C. LICENSE NO. G-1131

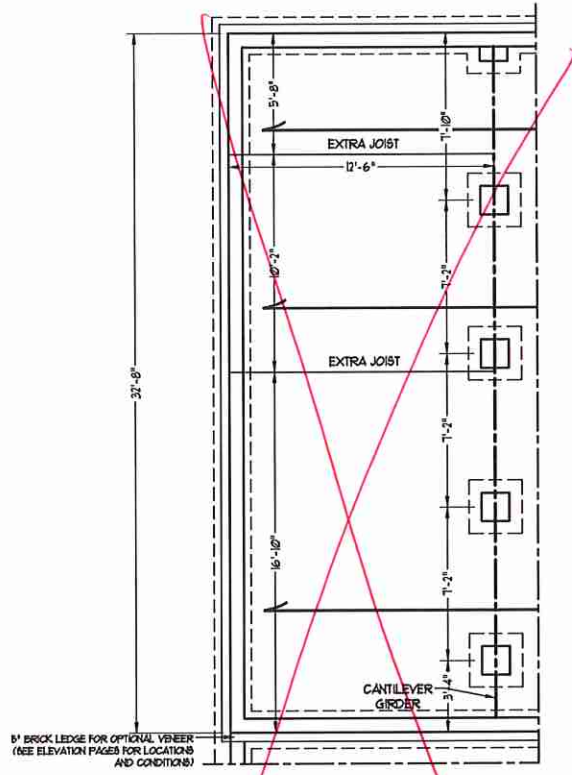
ROOSEVELT H&H HOMES, INC.

DATE: AUGUST 27, 2020  
 SCALE: 1/4" = 1'-0"  
 DRAWN BY: H&H HOMES  
 ENGINEERED BY: WFB

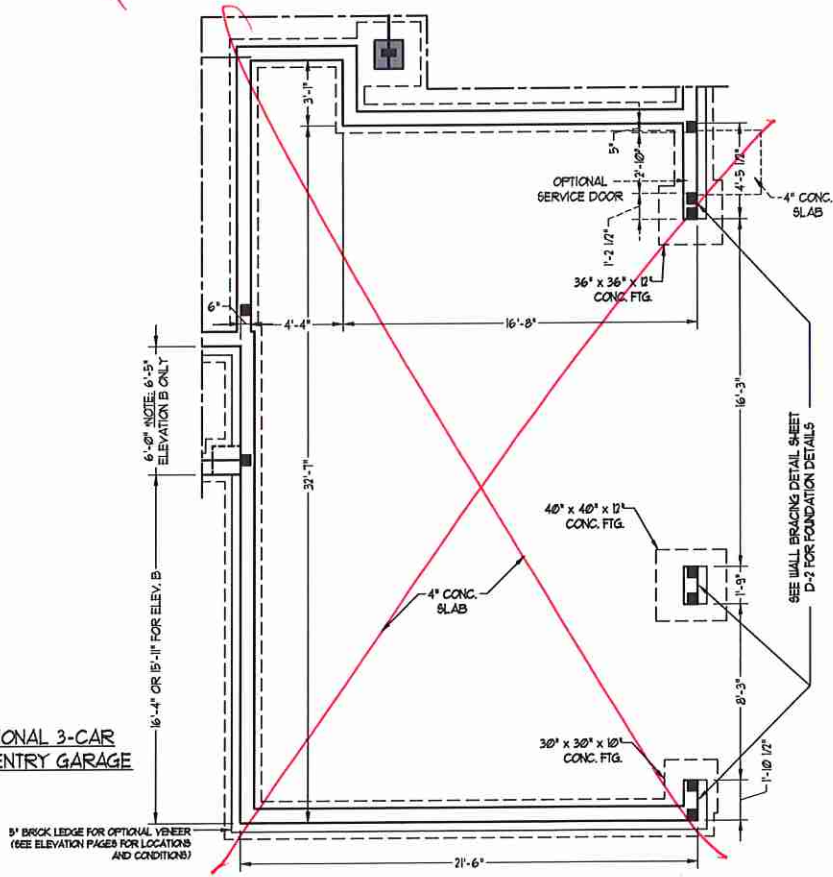


SHEET 1 OF 12  
 S-1.1a  
 CRAWL FOUNDATION PLAN

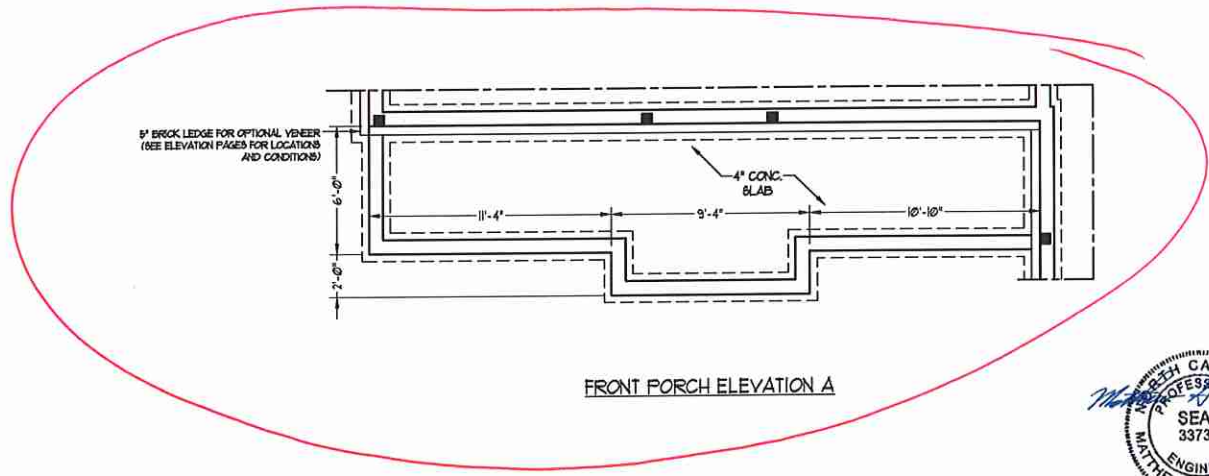




OPTIONAL GUEST SUITE, LO  
LIVING ROOM & OFFICE



OPTIONAL 3-CAR  
SIDE ENTRY GARAGE



FRONT PORCH ELEVATION A



**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

ROOSEVELT  
H&H HOMES, INC.

DATE: AUGUST 27, 2020  
SCALE: 1/4" = 1'-0"  
DRAWN BY: H&H HOMES  
ENGINEERED BY: WTB

SHEET 2 OF 12  
S-1.1b  
CRAWL  
FOUNDATION PLAN

8/27/2020

- BRACED WALL DESIGN NOTES:**
- BRACED WALL DESIGN PER SECTION R6-0210 OF THE NCRC 2018 EDITION.
  - C5-USP REFERS TO "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL 7/16" 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 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 PLATES.
  - BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 150 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: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 @ 16" O.C. (UNO). 2 x 4 @ 16" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 6 WALLS (UNO). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 x 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO).**

**BRACED WALL DESIGN**

RECTANGLE A	RECTANGLE B
<b>SIDE 1A (FRONT LOAD)</b> METHOD: C5-USP/FF TOTAL REQUIRED LENGTH: 13'8" TOTAL PROVIDED LENGTH: 78' SIDE 2A METHOD: C5-USP TOTAL REQUIRED LENGTH: 13'8" TOTAL PROVIDED LENGTH: 21'8" SIDE 3A (SIDE LOAD) METHOD: C5-USP/FF TOTAL REQUIRED LENGTH: 14'6" TOTAL PROVIDED LENGTH: 40'6" SIDE 4A METHOD: C5-USP TOTAL REQUIRED LENGTH: 14'6" TOTAL PROVIDED LENGTH: 21'5"	<b>SIDE 1B</b> METHOD: C5-USP/FF TOTAL REQUIRED LENGTH: 238' TOTAL PROVIDED LENGTH: 6' SIDE 2B METHOD: C5-USP TOTAL REQUIRED LENGTH: 238' TOTAL PROVIDED LENGTH: 12' SIDE 3B METHOD: C5-USP TOTAL REQUIRED LENGTH: 2' TOTAL PROVIDED LENGTH: 15'50" SIDE 4B / 3A COMBINED METHOD: C5-USP/GB TOTAL REQUIRED LENGTH: 16'6" TOTAL PROVIDED LENGTH: 40'6"

- STRUCTURAL NOTES:**
- ALL FRAMING LUMBER TO BE SPP #2 (UNO). ALL TREATED LUMBER TO BE SPP #2 (UNO).
  - ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).
  - 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 R6-0215 FOR ADDITIONAL KING STUD REQUIREMENTS.
  - SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO).
  - FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO BE SHEATHED WITH 7/16" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG EDGES AND 6" O.C. IN THE FIELD.
  - FOR HIGH WIND ZONES, SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2) ROWS OF 8d NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE BILL PLATES THEIR FULL DEPTH.
  - ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS w/ 8" PIPERON ABU44 POST BASES (OR EQUAL) AND 6 x 6 POSTS w/ ABUS66 POST BASES (OR EQUAL) (UNO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 1000 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.

**LINTEL SCHEDULE FOR 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

**BRICK SUPPORT NOTES:**

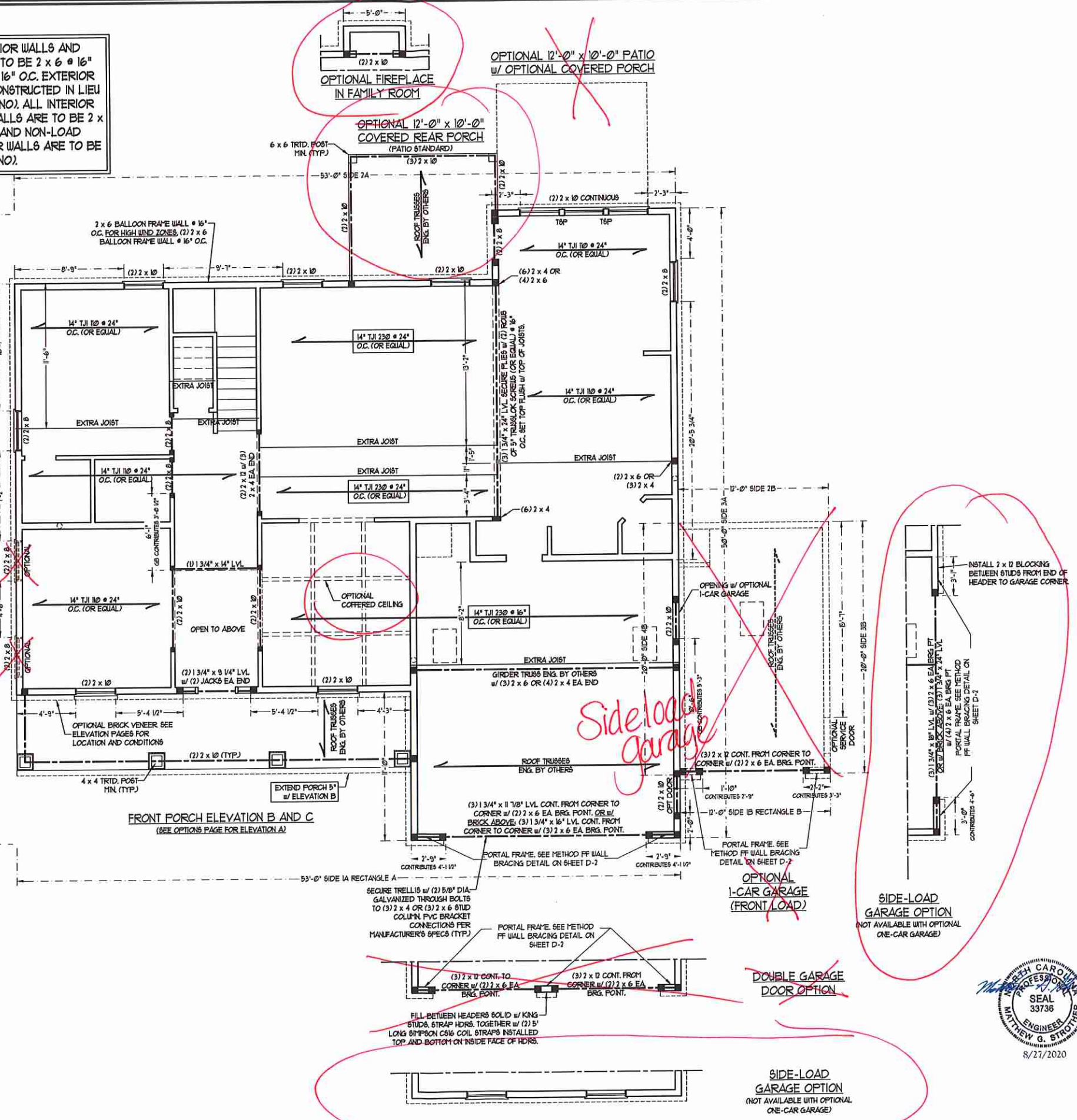
- LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO). SEE ARCH DUGS FOR SIZE AND LOCATION OF OPENINGS.
- (LLV) - LONG LEG VERTICAL
- LENGTH + CLEAR OPENING
- EMBED ALL ANGLE IRONS MIN 4" EACH SIDE INTO VENEER TO PROVIDE BEARING.
- FOR ALL HEADERS 8"-0" AND GREATER IN LENGTH, ATTACH STEEL ANGLE TO HEADER w/ 1/2" LAG SCREWS @ 12" O.C. STAGGERED.
- FOR ALL BRICK SUPPORT \* ROOF LINES, FASTEN (2) 2 x 10 BLOCKING BETWEEN STUDS w/ (4) 10d NAILS PER PLY. FASTEN A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING w/ (2) 1/2" LAG SCREWS @ 12" O.C. STAGGERED. SEE SECTION R7103.021 OF THE 2018 NCRC FOR ADDITIONAL BRICK SUPPORT INFORMATION. PRECAST REINFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

**NOTE:**

- BCI 45024-18 JOISTS MAY BE INSTALLED IN LIEU OF TJI 110 JOISTS AT THE DEPTH AND SPACING INDICATED ON THE PLAN
- BCI 60024-18 JOISTS MAY BE INSTALLED IN LIEU OF TJI 230 JOISTS AT THE DEPTH AND SPACING INDICATED ON THE PLAN

**TABLE R6-0215**  
MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCHES) (PER TABLE R6-0215)	
	16	24
UP TO 3'	1	1
4'	2	1
8'	3	2
12'	5	3
16'	6	4



**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. C1733

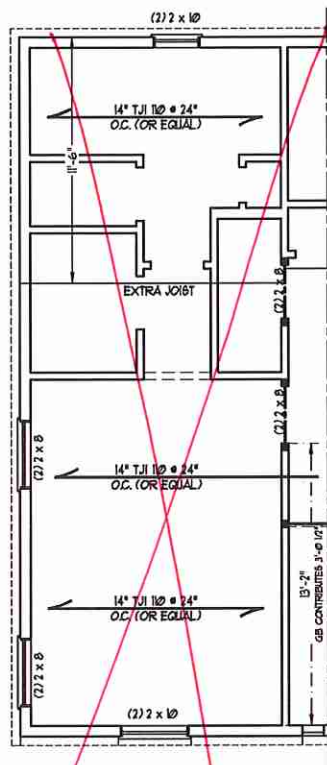
ROOSEVELT H&S HOMES, INC.



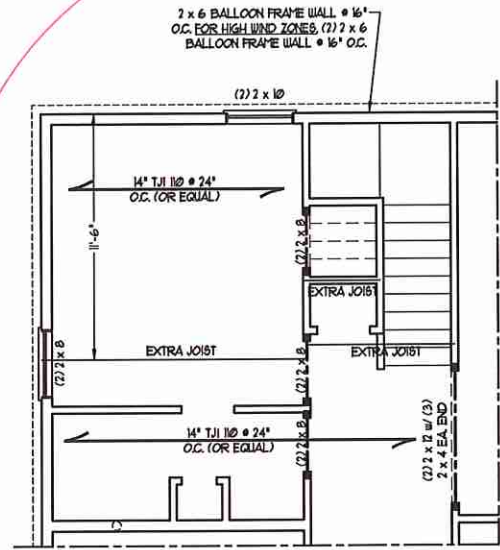
DATE: AUGUST 27, 2020  
SCALE: 1/4" = 1'-0"  
DRAWN BY: H&S HOMES  
ENGINEERED BY: WTB

SHEET 9 of 12  
S-2a  
SECOND FLOOR FRAMING PLAN

8/27/2020



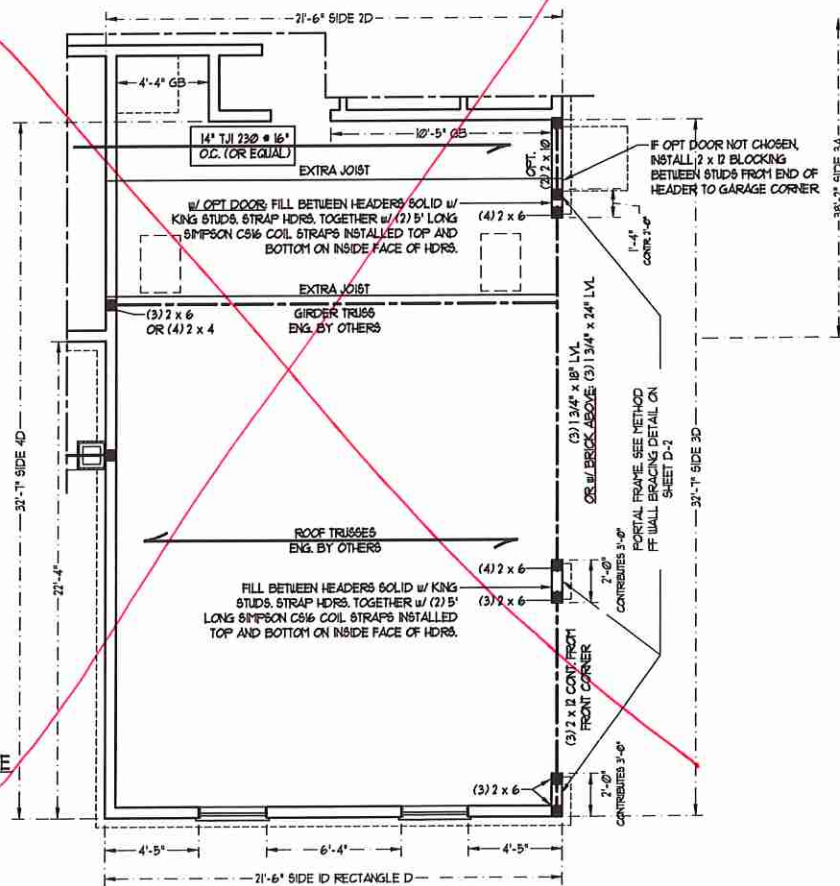
OPTIONAL GUEST SUITE ILO  
LIVING ROOM & OFFICE



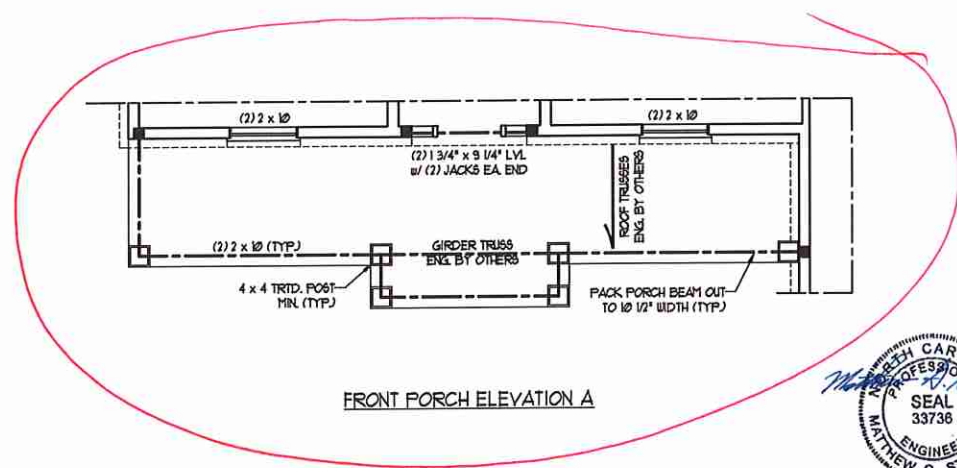
BEDROOM 5 & BATH 3 ILO  
OFFICE & POWDER ROOM  
(NOT AVAILABLE w/ OPT. BASEMENT)

**BRACED WALL DESIGN**  
RECTANGLE D

SIDE 1D	METHOD: C5-WSP	TOTAL REQUIRED LENGTH: 4.06'	TOTAL PROVIDED LENGTH: 15.2'
SIDE 2D / 1A COMBINED	METHOD: C5-WSP/GB	TOTAL REQUIRED LENGTH: 11.84'	TOTAL PROVIDED LENGTH: 21.1'
SIDE 3D	METHOD: C5-WSP/FF	TOTAL REQUIRED LENGTH: 2.52'	TOTAL PROVIDED LENGTH: 8.0'
SIDE 4D	METHOD: C5-WSP	TOTAL REQUIRED LENGTH: 2.52'	TOTAL PROVIDED LENGTH: 22.3'



OPTIONAL 3-CAR  
SIDE ENTRY GARAGE



FRONT PORCH ELEVATION A



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ENGINEERING, INC.**  
606 WADE AVE., SUITE 104 RALEIGH, NC 27605  
PHONE: (919) 789-9919 FAX: (919) 789-9921  
N.C. LICENSE NO.: C-1753

ROOSEVELT  
H&H HOMES, INC.

DATE: AUGUST 27, 2020  
SCALE: 1/4" = 1'-0"  
DRAWN BY: H&H HOMES  
ENGINEERED BY: WTB

SHEET 10 OF 12  
S-2b  
SECOND FLOOR  
FRAMING PLAN

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

**LINTEL SCHEDULE FOR 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

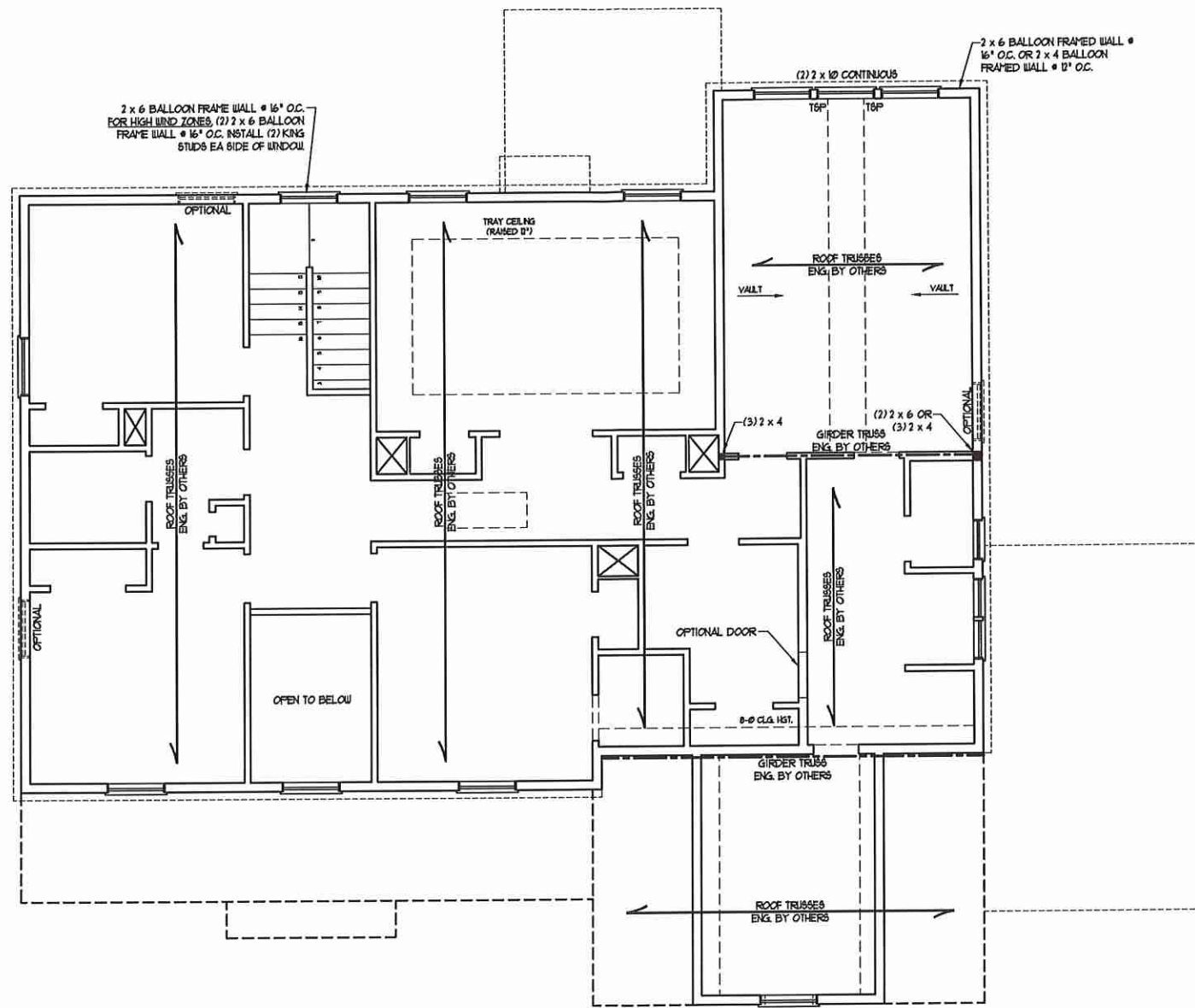
- BRICK SUPPORT NOTES:**
- LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO). SEE ARCH DETAILS FOR SIZE AND LOCATION OF OPENINGS.
  - (LLV) = LONG LEG VERTICAL
  - LENGTH = CLEAR OPENING
  - EMBED ALL ANGLE IRONS MIN. 4" EACH SIDE INTO VENEER TO PROVIDE BEARING.
  - FOR ALL HEADERS 8"-8" AND GREATER IN LENGTH, ATTACH STEEL ANGLE TO HEADER W/ 1/2" LAG SCREWS @ 12" O.C. STAGGERED.
  - FOR ALL BRICK SUPPORT @ ROOF LINES, FASTEN (2) 2 x 10 BLOCKING BETWEEN STUDS W/ (4) 1/2" D NAILS PER FLY. FASTEN A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING W/ (2) 1/2" LAG SCREWS @ 12" O.C. STAGGERED. SEE SECTION R103.822 OF THE 2018 NCR FOR ADDITIONAL BRICK SUPPORT INFORMATION.
  - PRECAST REINFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

- STRUCTURAL NOTES:**
- ALL FRAMING LUMBER TO BE SPF #1 (UNO).
  - ALL TREATED LUMBER TO BE SYP #1 (UNO).
  - ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (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.
  - SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO).
  - FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO BE SHEATHED WITH 1/2" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG EDGES AND 6" O.C. IN THE FIELD.
  - FOR HIGH WIND ZONES, SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2) ROWS OF 8d NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND 1" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE BIL PLATES THEIR FULL DEPTH.
  - SUPPORT GABLE WALLS NOT BRACED BY CEILING JOISTS OR FLOOR SYSTEM WITH 2 x 4 LATERAL BRACING INSTALLED ON TOP OF CEILING JOISTS OR TRUSS BOTTOM CHORDS AT 8'-0" O.C. AND EXTEND INWARD FROM GABLE WALLS 8'-0" MIN.
  - REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

T&P - TRIPLE STUD POCKET

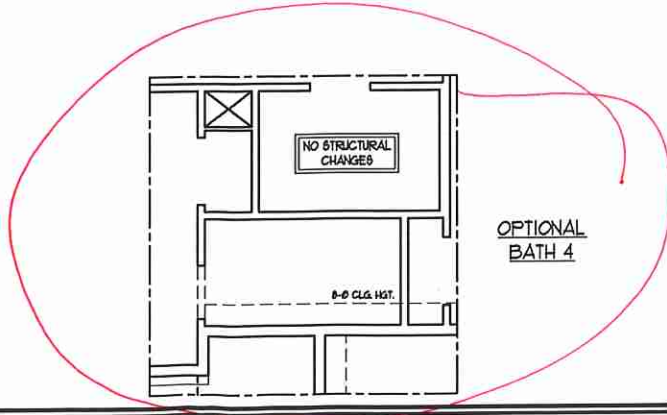
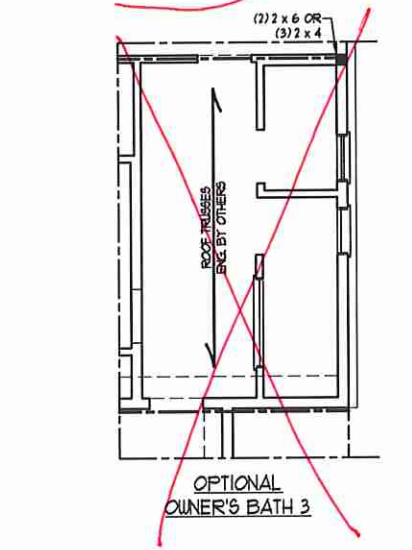
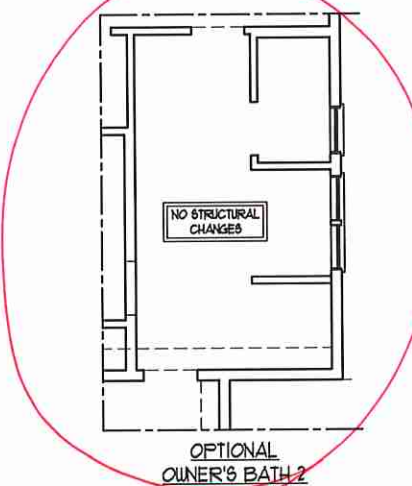
**TABLE R602.15  
MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS**

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



- BRACED WALL DESIGN NOTES:**
- BRACED WALL DESIGN PER SECTION R607.10 OF THE NCR 2018 EDITION.
  - CS-WSP REFERS TO 'CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS'. CONTRACTOR IS TO INSTALL 1/2" 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 1/4" 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 NCR 2018 EDITION. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

- NOTE:**
- PER SECTION R602.132 OF THE 2018 NCR, 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 1/2" OSB SHEATHING ATTACHED WITH 8d NAILS AT 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.



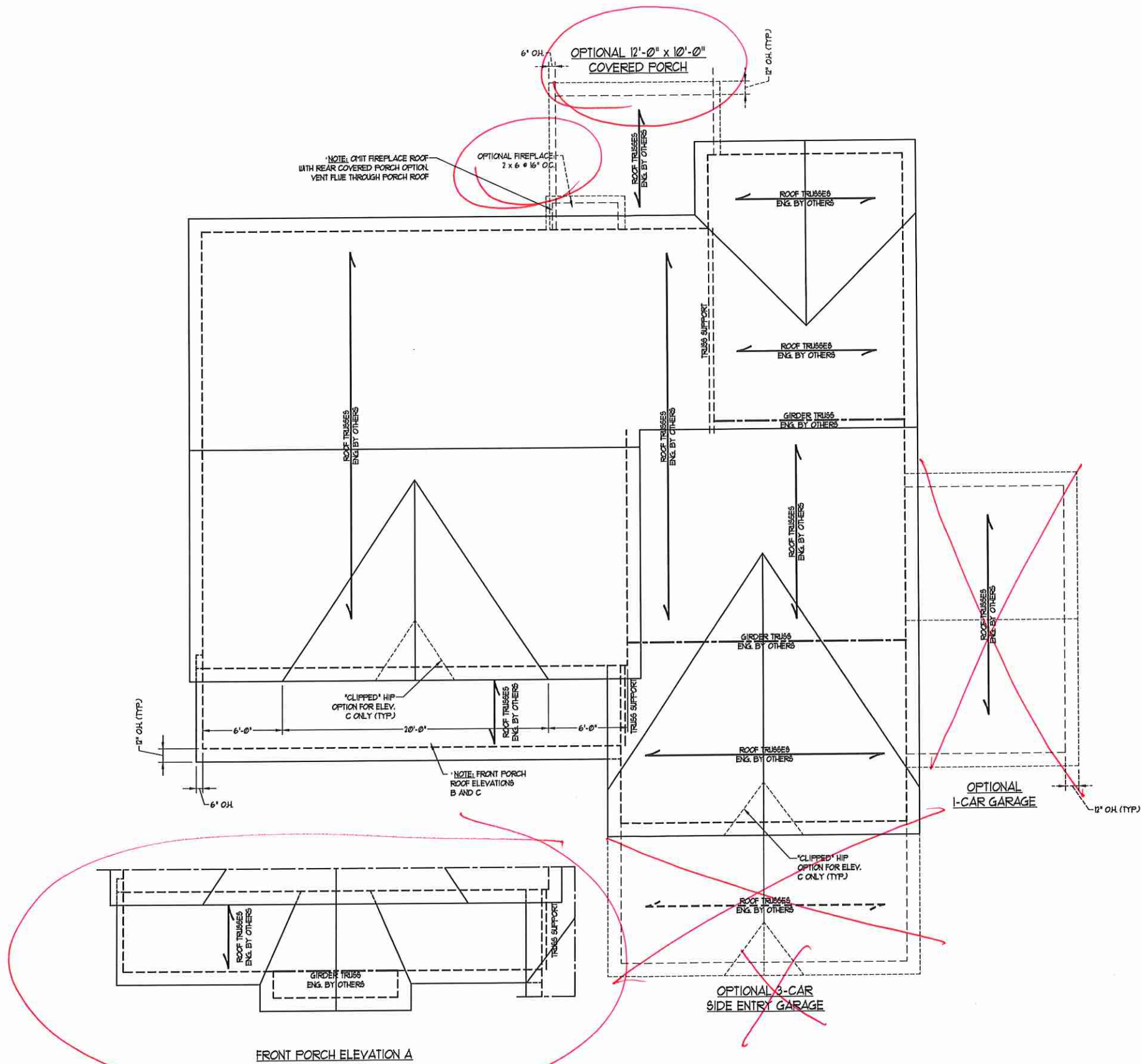
**J.S. THOMPSON  
ENGINEERING, INC.**  
606 WADE AVE., SUITE 104 RALEIGH, NC 27605  
PHONE: (919) 789-9919 FAX: (919) 789-9921  
N.C. LICENSE NO. C-1733

ROOSEVELT  
H&H HOMES, INC.

DATE: AUGUST 27, 2019  
SCALE: 1/4" = 1'-0"  
DRAWN BY: H&H HOMES  
ENGINEERED BY: WTB



SHEET 11 OF 12  
S-3  
ATTIC FLOOR FRAMING PLAN



**BRICK SUPPORT NOTE:**

1. FASTEN (2) 2 x 10 BLOCKING BETWEEN WALL STUDS w/ (4) 1d NAILS PER PLY. FASTEN A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING w/ (2) 1/2" LAG SCREWS @ 12" O.C. STAGGERED. SEE SECTION R103.B21 OF THE 2018 NRC FOR ADDITIONAL BRICK SUPPORT INFORMATION.
2. WHERE ROOF SLOPES EXCEED 1:12, INSTALL 3" x 3" x 1/4" STEEL PLATE STOPS AT 24" O.C. PER SECTION R103.B21 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.

**STRUCTURAL NOTES:**

1. ALL FRAMING LUMBER TO BE #2 SFF (NO).
2. CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF SUPPORT.
3. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS.
4. HIP SPLICES ARE TO BE SPACED A MIN. OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS @ 16" O.C. (TYP.)
5. 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.
6. FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES WITH SAMPSON H15A 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.
7. REFER TO SECTION R807.1 OF THE 2018 NRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND TRUSSES.
8. 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.: C173

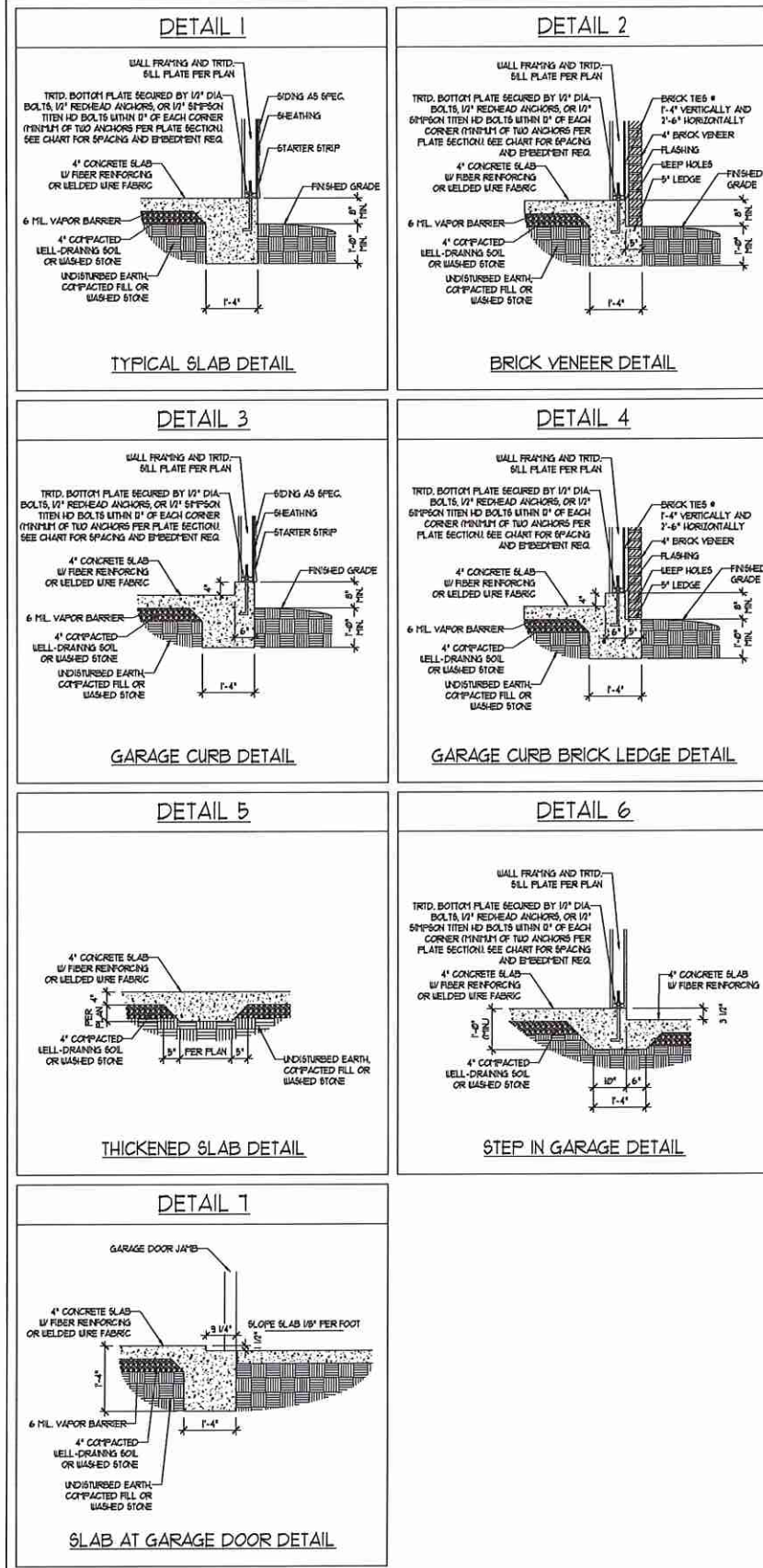
ROOSEVELT  
 H&H HOMES, INC.

SEAL  
 33738  
 ENGINEER  
 MATTHEW G. STROTHER  
 8/27/2020

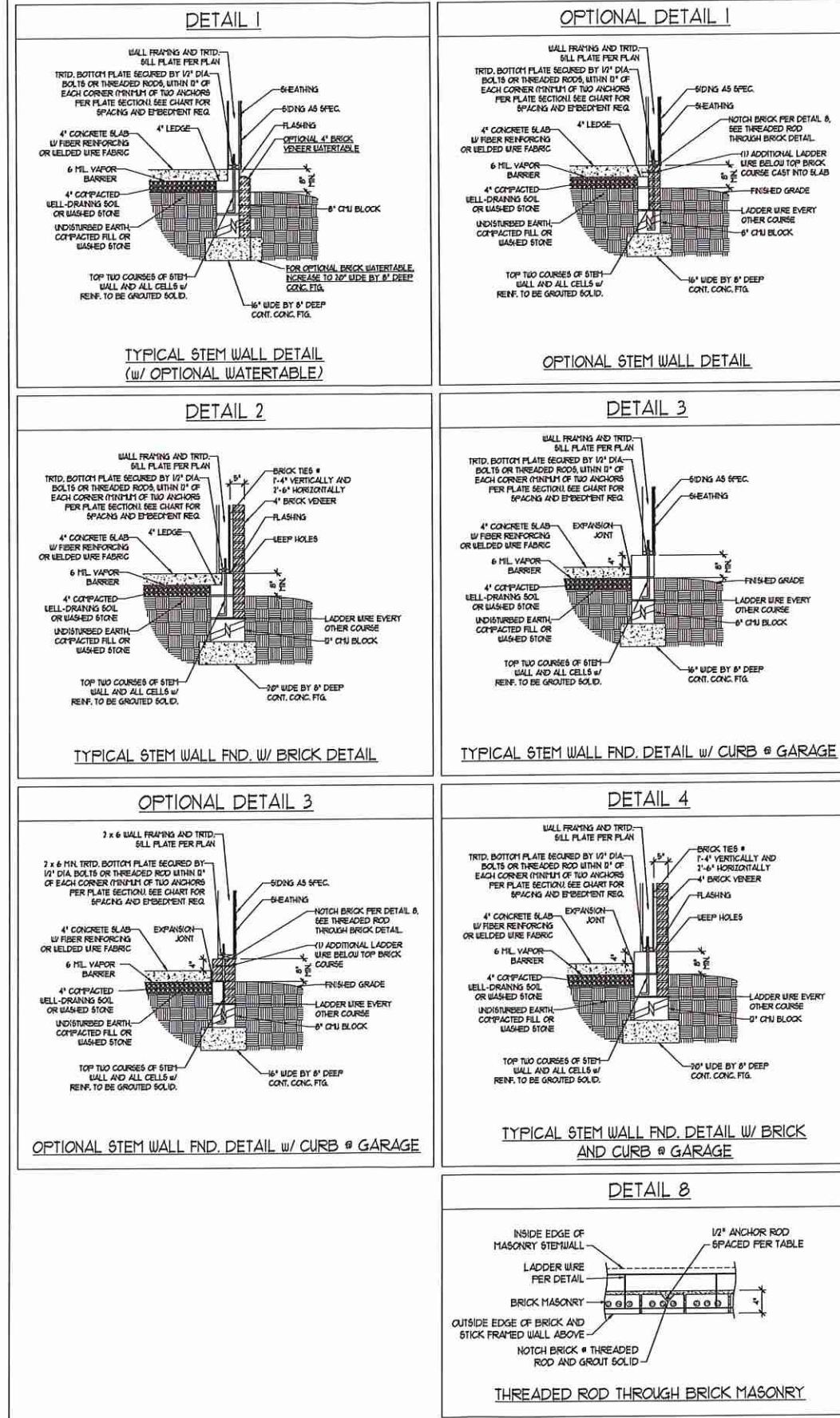
DATE: AUGUST 27, 2020  
 SCALE: 1/4" = 1'-0"  
 DRAWN BY: H&H HOMES  
 ENGINEERED BY: WFB

SHEET 12 OF 12  
 S4  
 ROOF FRAMING PLAN

MONOLITHIC SLAB DETAILS



STEMWALL 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/ 1/4 REBAR @ 48" O.C.	GROUT SOLID	GROUT SOLID w/ 1/4 REBAR @ 64" O.C.
5	GROUT SOLID w/ 1/4 REBAR @ 36" O.C.	NOT APPLICABLE	GROUT SOLID w/ 1/4 REBAR @ 36" O.C.	GROUT SOLID w/ 1/4 REBAR @ 64" O.C.
6	GROUT SOLID w/ 1/4 REBAR @ 24" O.C.	NOT APPLICABLE	GROUT SOLID w/ 1/4 REBAR @ 24" O.C.	GROUT SOLID w/ 1/4 REBAR @ 64" O.C.
7 AND GREATER	ENGINEERED DESIGN BASED ON SITE CONDITIONS			

STRUCTURAL NOTES:

- WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
- TIE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.
- CHART APPLICABLE FOR HOUSE FOUNDATION ONLY. CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
- BACKFILL OF CLEAN #5 1/2 WASHED STONE IS ALLOWABLE.
- CLASSIFIED AS GROUP 1 ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE B402.1 OF THE 2018 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.
- PREP SLAB PER RS206.21 AND RS206.22 BASE OF THE 2018 INTERNATIONAL RESIDENTIAL CODE. MINIMUM 24" LAP SPLICE LENGTH.
- LOCATE REBAR IN CENTER OF FOUNDATION WALL.
- 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.

ANCHOR SPACING AND EMBEDMENT

WIND ZONE	120 MPH	130 MPH
SPACING	6'-0" O.C.	4'-0" O.C.
EMBEDMENT	1"	5" INTO MASONRY 1" INTO CONCRETE

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N.C. LICENSE NO.: C1733

120 MPH - 130 MPH ULTIMATE DESIGN WIND SPEED  
FOUNDATION DETAILS

DATE: NOVEMBER 14, 2018

SCALE: NTS

DRAWN BY: JST

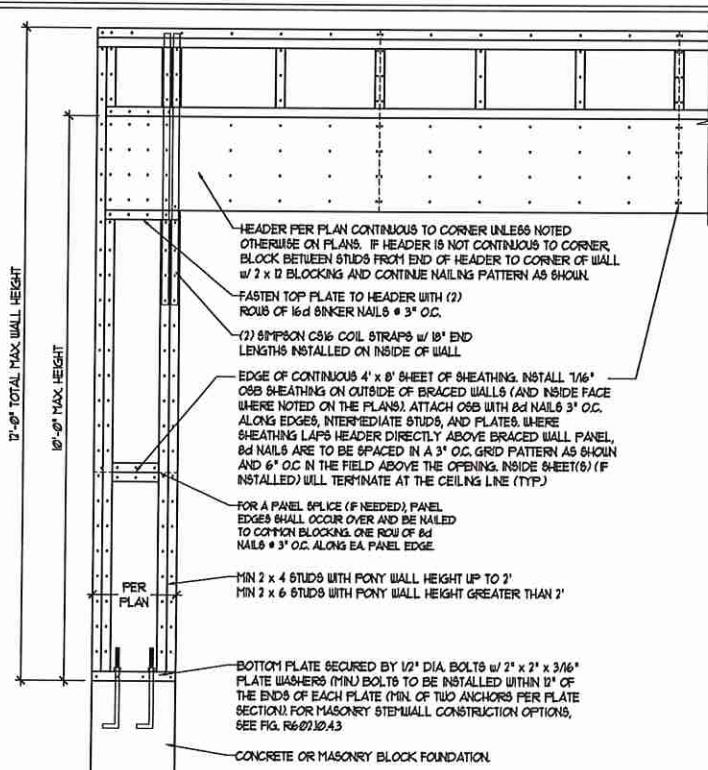
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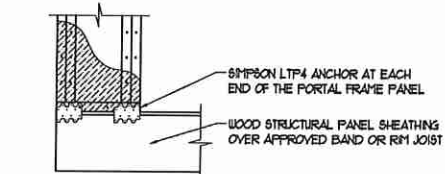
D-1  
FOUNDATION DETAILS

**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. 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 C6-WSF 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 R602.3.5, METHOD GB TO BE FASTENED PER TABLE R602.10.1.
6. C6-WSF REFERS TO THE "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 1/4" OSB SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED w/ 6d COMMON NAILS OR 8d (2 1/2" LONG x 0.13" DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (UNO.).
7. 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 1/4" 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.
8. REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602.10.3, METHOD C6-WSF CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 ITS ACTUAL LENGTH, AND METHOD FF CONTRIBUTES 15 TIMES ITS ACTUAL LENGTH.

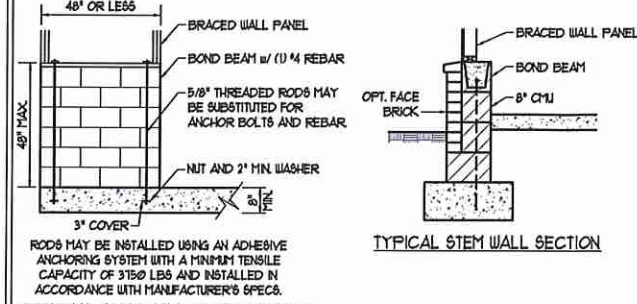
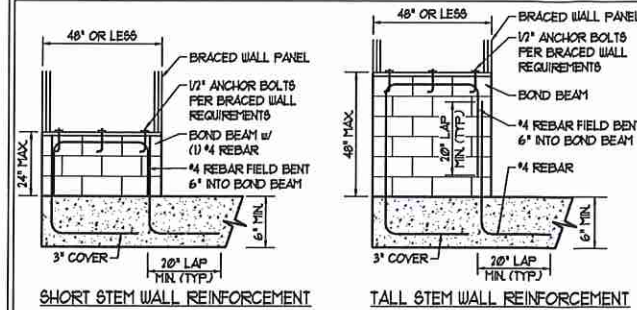


OVER CONCRETE OR MASONRY BLOCK FOUNDATION



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

**METHOD FF-PORTAL FRAME DETAIL ①**

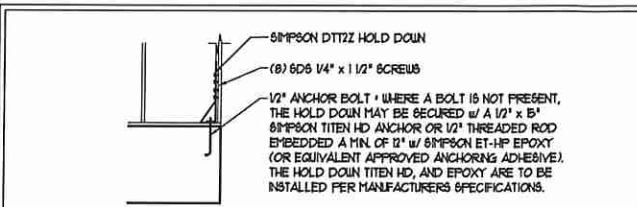
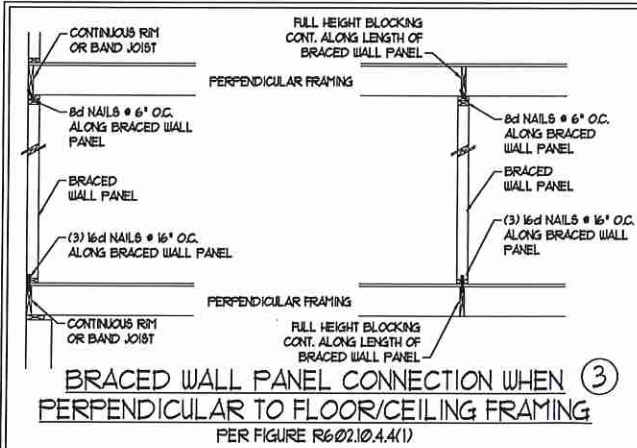


**OPTIONAL STEM WALL REINFORCEMENT**

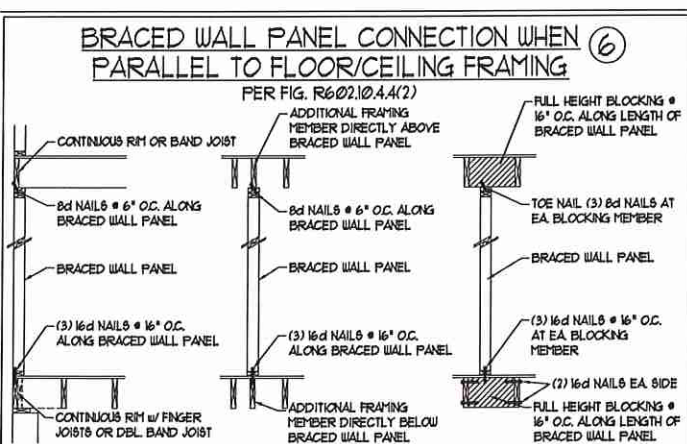
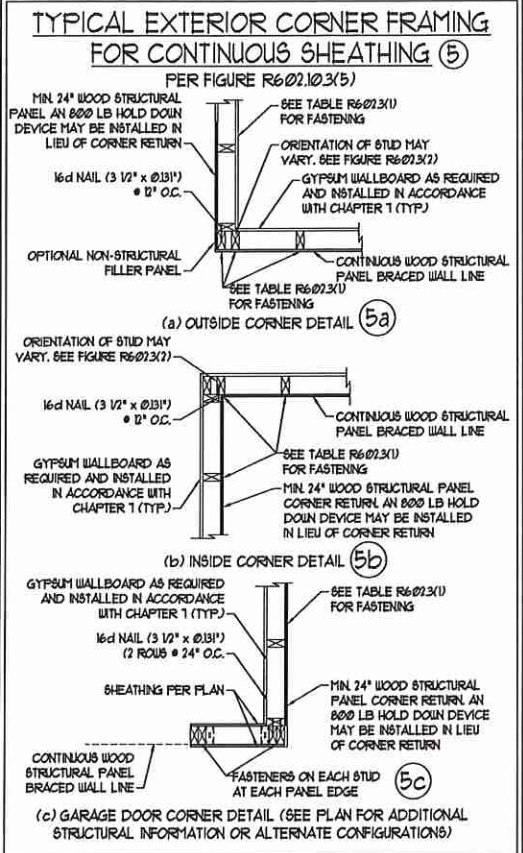
RODS MAY BE INSTALLED USING AN ADHESIVE ANCHORING SYSTEM WITH A MINIMUM TENSILE CAPACITY OF 3100 LBS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECS.

**NOTE: GROUT BOND BEAMS AND ALL CELLS WHICH CONTAIN REBAR THREADED RODS AND ANCHOR BOLTS**

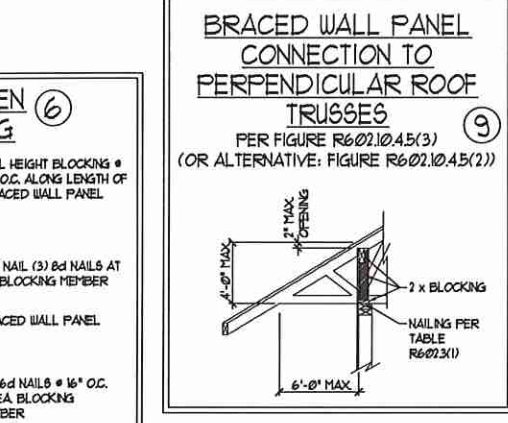
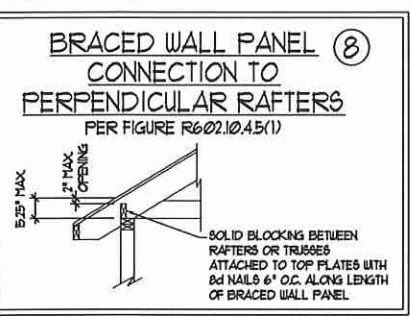
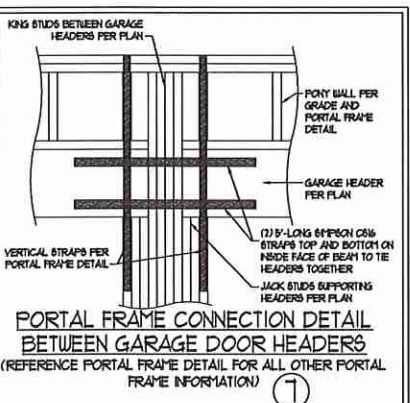
**MASONRY STEM WALLS SUPPORTING BRACED WALL PANELS ②**  
PER FIGURE R602.10.4.3



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



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**J.S. THOMPSON ENGINEERING, INC.**  
608 WADE AVE., SUITE 104 RALEIGH, NC 27605  
PHONE (919) 789-9919 FAX (919) 789-9921  
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120 MPH - 130 MPH ULTIMATE DESIGN WIND SPEED  
WALL BRACING NOTES AND DETAILS

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

**SEAL 33736**  
ENGINEER  
MATTHEW G. STROTHER

8/27/2020

D-2  
BRACED WALL NOTES AND DETAILS AND FF 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 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 CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NRC, 2018 EDITION (R3014 - R3017).

DESIGN CRITERIA	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	L/740 (L/360 w/ BRITTLE FRISSES)
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 (FLF)	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 R3012(4) WIND ZONE AND EXPOSURE)		
GROUND SNOW LOAD: Pg	20 (PSF)		

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

- FOR 15 AND 100 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R4031.6 OF THE NRC, 2018 EDITION. FOR 10 MPH, 140 MPH, AND 150 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 II OF THE NRC, 2018 EDITION.

**FOOTING AND FOUNDATION NOTES**

- FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. 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 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 1, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R4091 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 SALED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- CONCRETE SHALL CONFORM TO SECTION R4022 OF THE NRC, 2018 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A635 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 WITH 402. MORTAR SHALL CONFORM TO ASTM C270.
- 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. 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, NCM 1188-A OR ACE 530/ASCE 5 WITH 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R4041(1), R4041(2), R4041(3), OR R4041(4) OF THE NRC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R4041(5) OF THE NRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16' O.C. WHERE GRADE PERMITS (NO).

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**FRAMING NOTES**

- ALL FRAMING LUMBER SHALL BE 2" GYP MINIMUM (Fb = 875 PSI, Fv = 375 PSI, E = 16,000,000 PSI) UNLESS NOTED OTHERWISE (NO). ALL TREATED LUMBER SHALL BE 2" GYP MINIMUM (Fb = 975 PSI, Fv = 475 PSI, E = 16,000,000 PSI) UNLESS NOTED OTHERWISE (NO).
- LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 26,000 PSI, Fv = 205 PSI, E = 19,000,000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2375 PSI, Fv = 310 PSI, E = 19,000,000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E = 16,000,000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 2,000,000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
  - A. W AND WFL 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 (NO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (NO):
  - 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 3/8" 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 (NO). 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 (NO). 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 (NO). 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 (NO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (NO).
- 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 (NO).
- 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 (NO). 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) 8d NAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R103.0(2) 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 8d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (NO).
- 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 (NO).
- ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (NO). POSTS MAY BE SECURED USING ONE SIMPSON 1/6 OR L182 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 1/2" SECTION OF SIMPSON C516 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 27603  
 PHONE: (919) 789-9119 FAX: (919) 789-9921  
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120 MPH - 130 MPH ULTIMATE DESIGN WIND SPEED  
 STANDARD STRUCTURAL NOTES

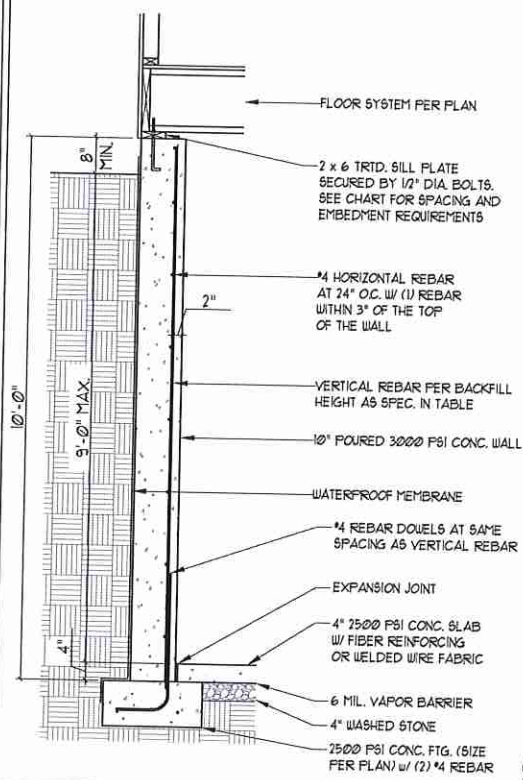


DATE: NOVEMBER 14, 2018  
 SCALE: 1/4" = 1'-0"  
 DRAWN BY: JES  
 ENGINEERED BY: JST

SO  
 STRUCTURAL  
 NOTES

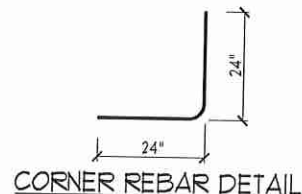


### 10" POURED BASEMENT WALL



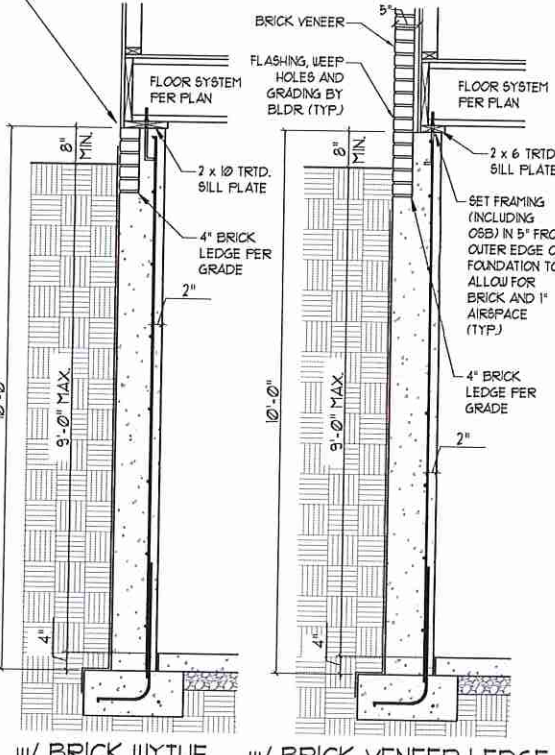
BACKFILL HEIGHT (FT)	VERTICAL REBAR
≤ 5	#4 @ 48" O.C.
6	#4 @ 32" O.C.
7	#4 @ 24" O.C. OR #5 @ 36" O.C. OR #6 @ 56" O.C.
8	#4 @ 20" O.C. OR #5 @ 32" O.C. OR #6 @ 48" O.C.
9	#4 @ 16" O.C. OR #5 @ 24" O.C. OR #6 @ 40" O.C.

BASEMENT WALL REINFORCEMENT TABLE



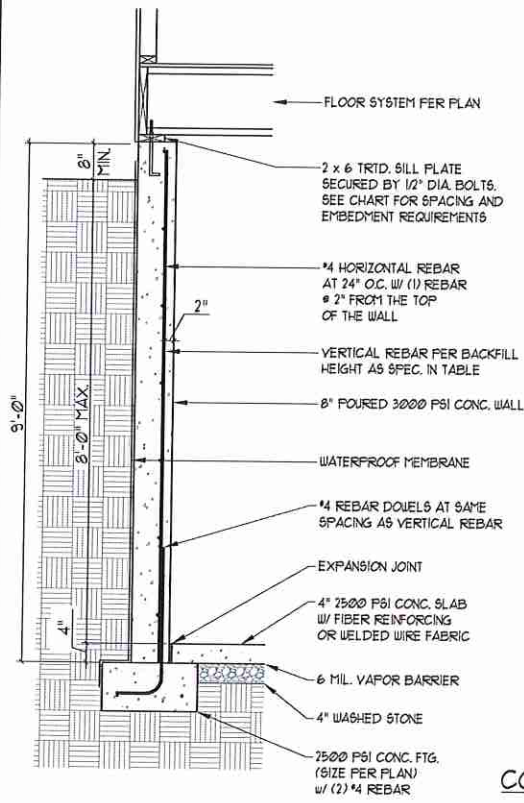
CORNER REBAR DETAIL

WHERE FRAMED WALLS WILL BE SUPPORTED PARTIALLY BY THE BRICK WYTHE, STANDARD CORRUGATED WALL TIES ARE TO BE FASTENED TO THE POURED WALLS w/ 1 1/4" LONG CONCRETE SCREWS OR 1 1/8" POWDER DRIVEN FASTENERS @ 16" O.C. HORIZONTALLY AND VERTICALLY. WALL TIES ARE TO BE LOCATED A MIN. OF 8" FROM THE TOP OF THE WALL AND ARE FULLY EMBEDDED INTO THE HEAD AND BED JOINTS. ALL FASTENERS ARE TO BE INSTALLED PER THE MANUFACTURER'S SPECS.



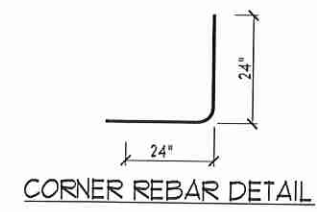
w/ BRICK WYTHE w/ BRICK VENEER LEDGE

### 8" POURED BASEMENT WALL

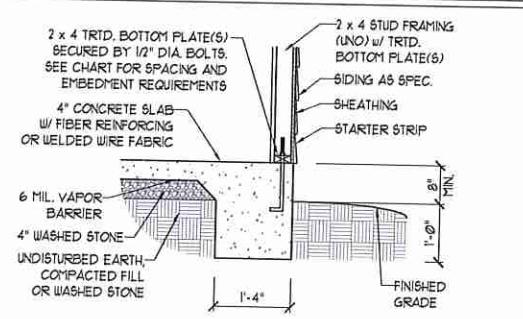


BACKFILL HEIGHT (FT)	VERTICAL REBAR
≤ 5	#4 @ 48" O.C.
6	#4 @ 24" O.C. OR #5 @ 36" O.C.
7	#4 @ 16" O.C. OR #5 @ 24" O.C. OR #6 @ 56" O.C.
8	#4 @ 12" O.C. OR #5 @ 18" O.C. OR #6 @ 28" O.C. OR

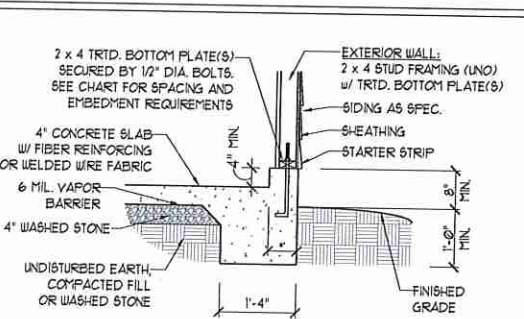
BASEMENT WALL REINFORCEMENT TABLE



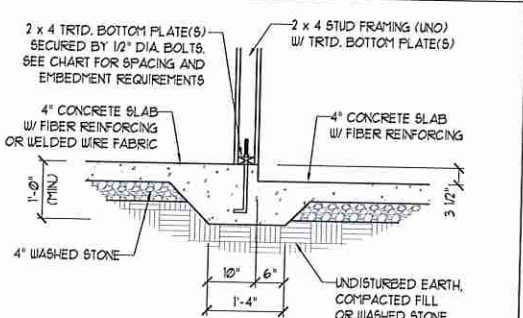
CORNER REBAR DETAIL



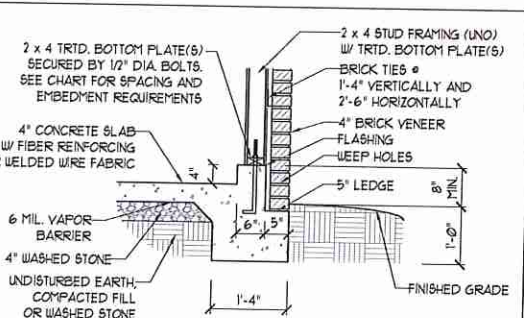
TYPICAL SLAB



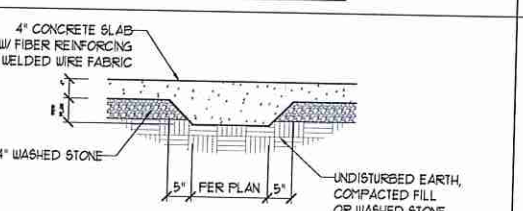
GARAGE CURB



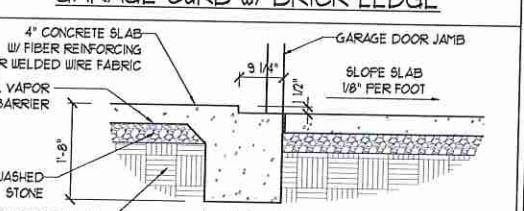
STEP IN GARAGE



GARAGE CURB w/ BRICK LEDGE



TYPICAL THICKENED SLAB



SLAB AT GARAGE DOOR

### 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	1"	15" INTO MASONRY 1" 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.

### IMPORTANT NOTE:

FOUNDATIONS AS DENOTED IN THESE DETAILS ARE NOT SUITABLE FOR SUPPORT OF ADDITIONAL SURCHARGE LOADING FROM ADJACENT STRUCTURES OR DRIVEWAYS. FOUNDATIONS WITH EXTRA LATERAL LOADING IN THESE SCENARIOS WILL REQUIRE LOT SPECIFIC DESIGN ON A CASE BY CASE BASIS. CONSULT THE ENGINEER OF RECORD WHEN PLANNING TO BUILD IN CLOSE PROXIMITY TO THE FOUNDATION AS WE WILL NOT BE HELD LIABLE FOR FOUNDATION FAILURE. SEE R403.19 OF THE 2018 NCRS FOR ADDITIONAL INFORMATION.

### STRUCTURAL NOTES:

- FOR #4 REBAR, 24" MINIMUM REBAR LAP SPLICE LENGTH. FOR #5 REBAR, 32" MINIMUM REBAR LAP SPLICE LENGTH. FOR #6 REBAR, 38" MINIMUM REBAR LAP SPLICE LENGTH.
- REBAR TO MAINTAIN A MINIMUM CONCRETE COVER OF 3" (MIN).
- REBAR TO BE ASTM A615 GRADE 60.
- SOIL BEARING CAPACITY IS REQUIRED TO BE 2000 PSF MIN.
- INSTALL #4 L-BARS AT ALL WALL CORNERS AT SAME SPACING AS HORIZ. STEEL. SEE DETAIL.
- THE FLOOR FRAMING IS TO BE INSTALLED AND A MIN. OF SEVEN DAYS IS REQUIRED TO ALLOW THE CONCRETE TO CURE BEFORE THE BACKFILL CAN BE INSTALLED. THE BACKFILL IS RECOMMENDED TO BE PLACED IN 12" LIFTS AND CAREFULLY TAMPED.
- A 4" LEDGE IS TO BE PROVIDED FOR THE PORCH SLAB. THE WALLS ARE REQUIRED TO BE BONDED TO THE SLABS USING #4 x 36" REBAR DOUELS @ 32" O.C. EMBEDDED 4" INTO THE CONC. USING EPOXY.
- WHERE THE FLOOR JOISTS ARE PARALLEL TO THE WALLS, 2 x 4 BLOCKING IS TO BE INSTALLED 24" O.C. BETWEEN THE BOTTOM FLANGES OF THE I-JOISTS FOR A MIN. OF 6'-0" AWAY FROM THE WALL OR DIAGONAL 2 x 6 BLOCKS MAY BE INSTALLED 24" O.C. FROM THE EDGE OF THE SILL PLATE TO THE TOP FLANGE AND SUBFLOORING, ATTACHED w/ (3) 12d NAILS EACH END.

### NOTE TO FOUNDATION CONTRACTOR:

ALTERNATE REINFORCED CONCRETE POURED WALL DESIGNS ENGINEERED BY OTHERS MAY BE CONSTRUCTED. NO CONTINUOUS FOOTINGS OR LUG FOOTINGS MAY BE REDUCED IN SIZE.



**J.S. THOMPSON ENGINEERING, INC.**  
606 WADE AVE., SUITE 104 RALEIGH, NC 27605  
PHONE: (919) 786-9919 FAX: (919) 786-9921  
N.C. LICENSE NO.: C-1173

POURED WALL BASEMENT FOUNDATION DETAILS

DATE: JULY 17, 2020
SCALE: NTS
DRAWN BY: JES/JFT
ENGINEERED BY: JES/JFT

FOUNDATION DETAILS

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