

# ROOSEVELT

## 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 12x10' (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)

OKM000081 OKM 081 Buyer Marked Plan Buyer Marked



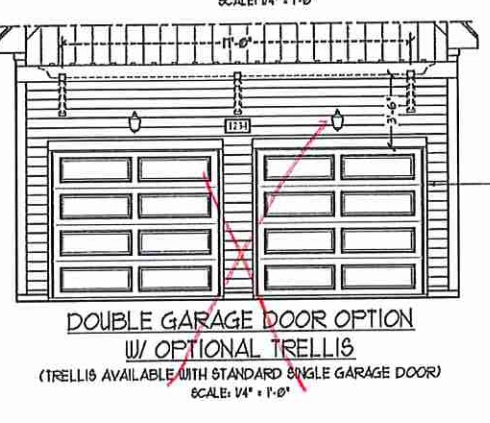
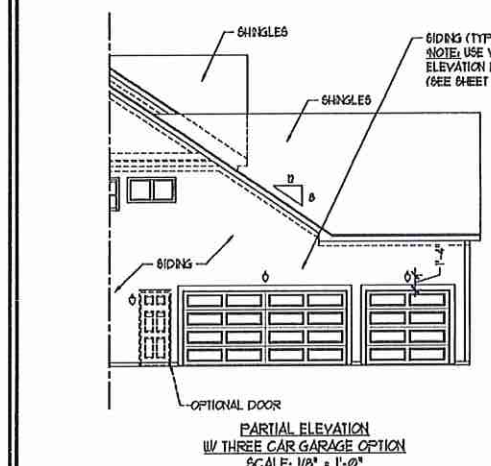
COVER SHEET

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ROOSEVELT

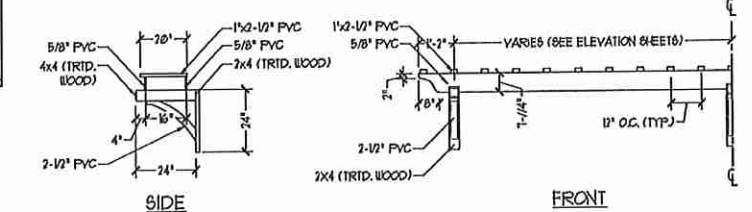
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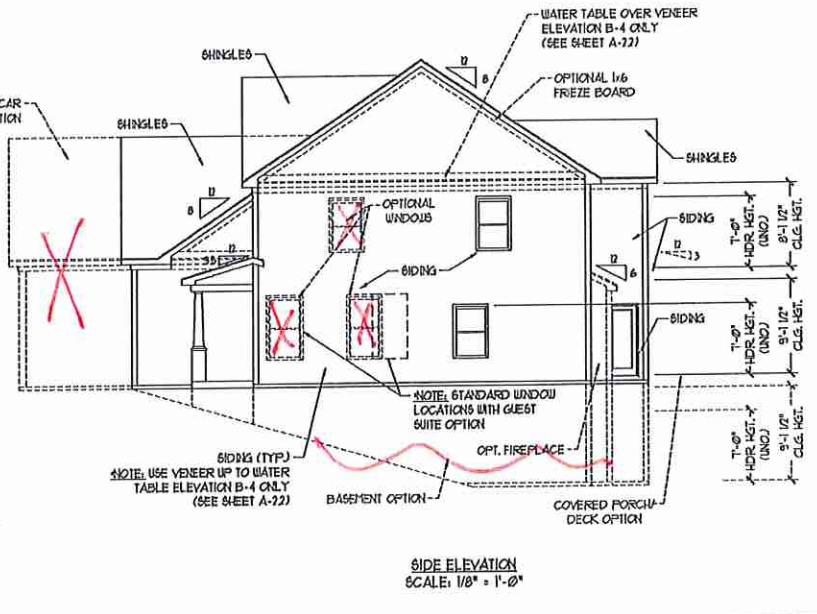
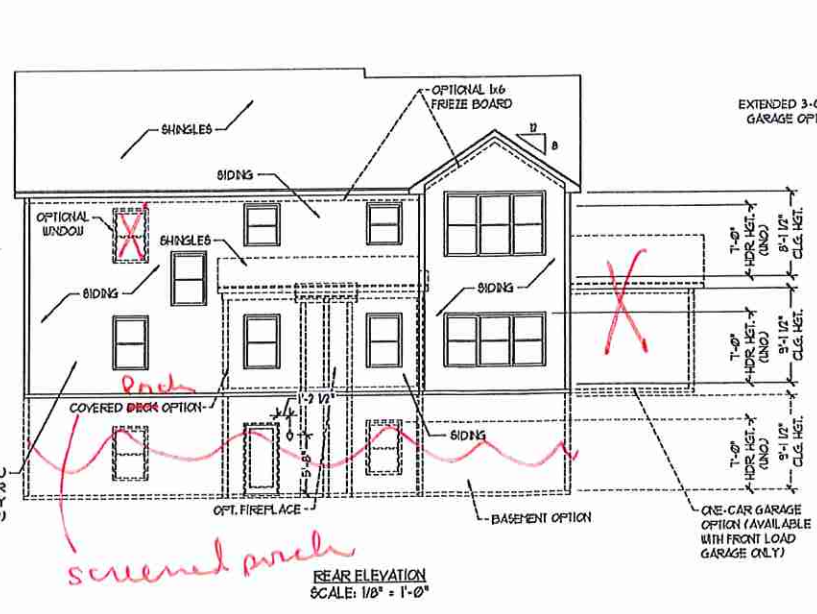
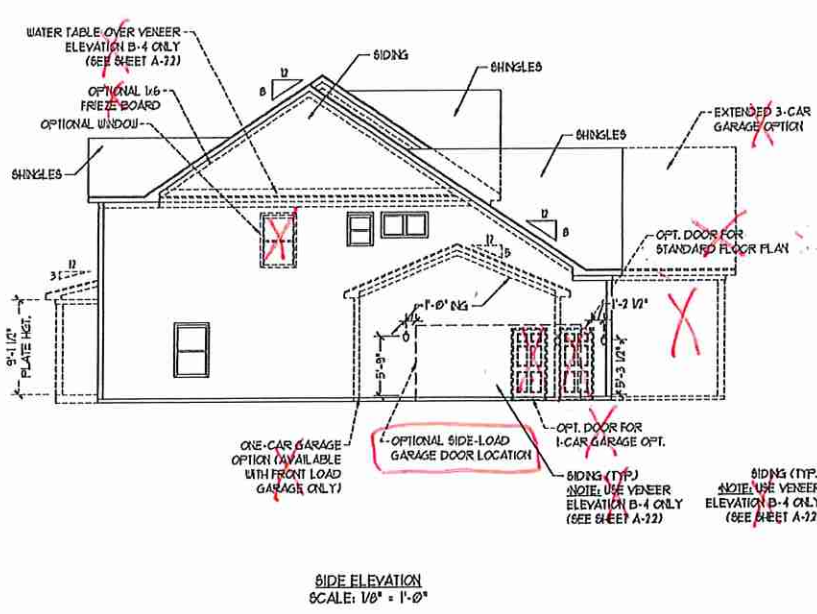




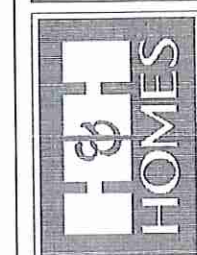
**NOTE:**  
 SEE SHEET A-2.1 FOR BRICK FRONT ELEVATIONS  
 SEE SHEET A-2.2 FOR STONE FRONT ELEVATIONS  
 SEE SHEET A-2.3 (ALL BRICK) ELEVATIONS



OPTIONAL TRELLIS DETAIL  
 SCALE: 1/16"



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B-1 ELEVATION  
 A-2



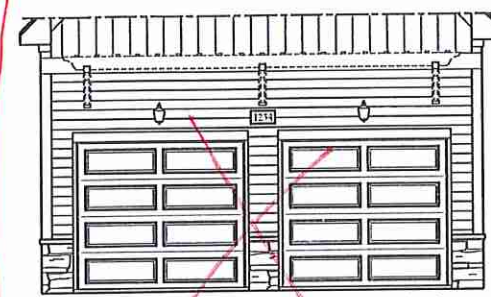


FRONT ELEVATION-B-2  
SCALE: 1/4" = 1'-0"

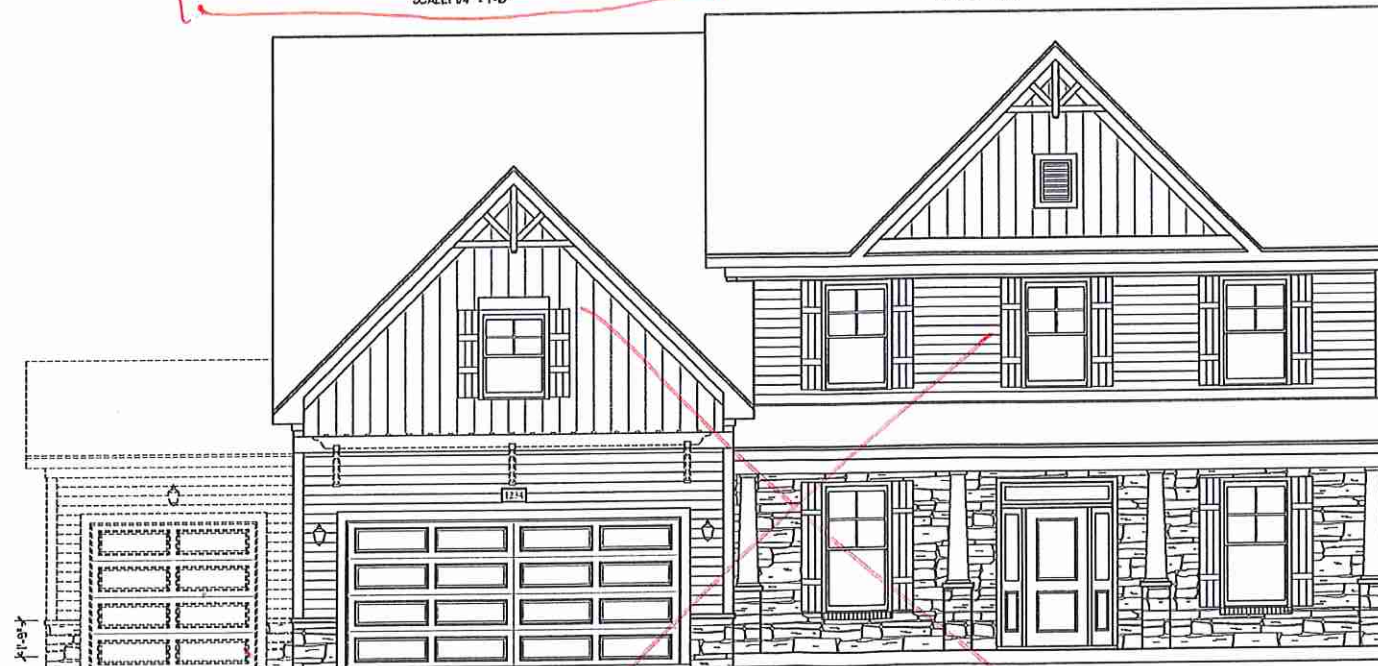
STONE



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



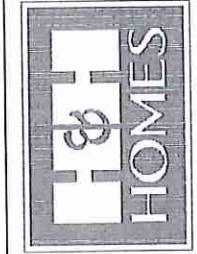
DOUBLE GARAGE DOOR OPTION  
WITH OPTIONAL TRELLIS  
(TRELLIS AVAILABLE WITH STANDARD SINGLE GARAGE DOOR)  
SCALE: 1/4" = 1'-0"



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

VENER LEDGE  
AS SPEC. (TYP)

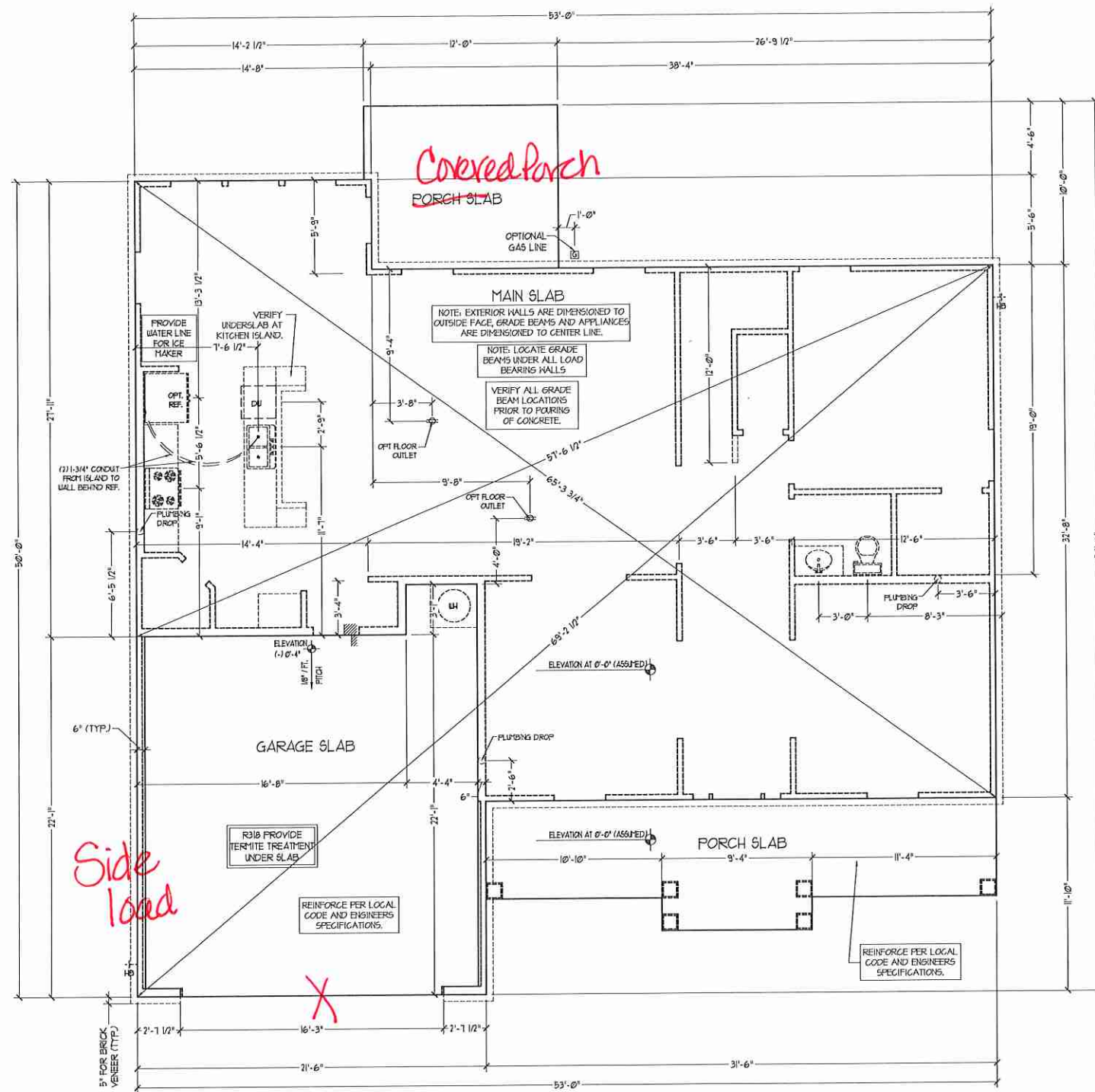
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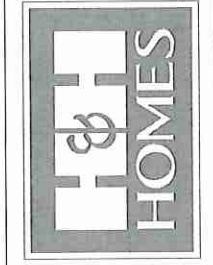
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B-2 & B-3  
ELEVATIONS W/  
STONE  
A-2.2



FOUNDATION PLAN

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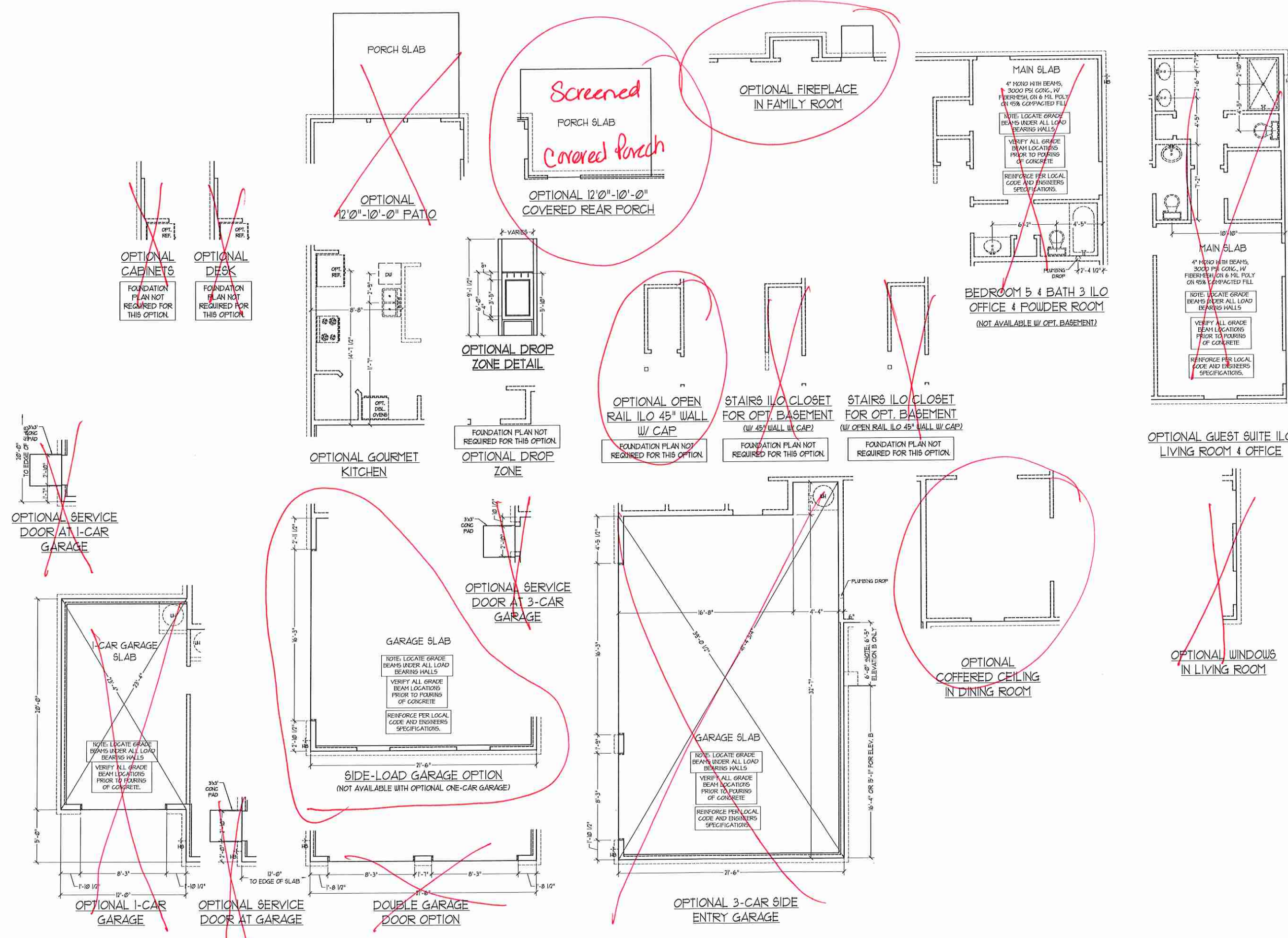
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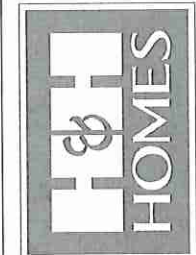
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SLAB INTERFACE  
PLAN  
**A-4**





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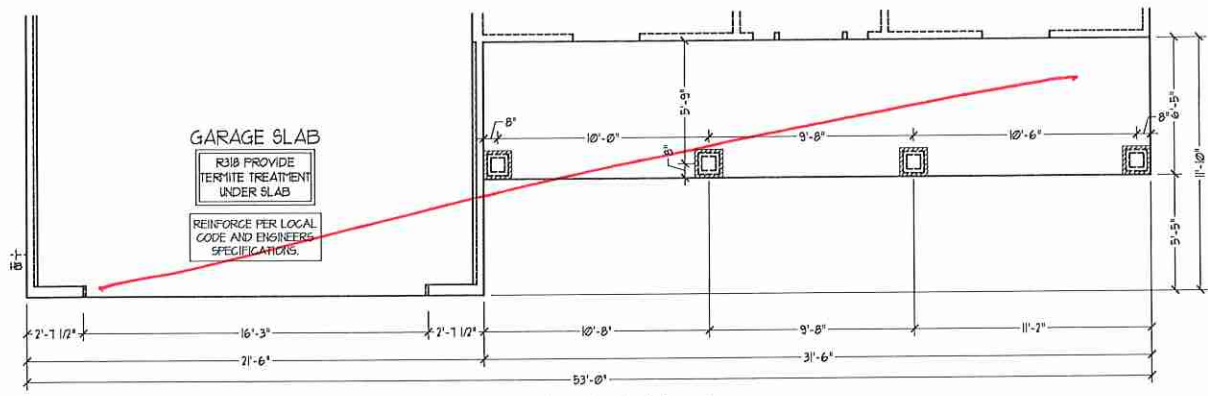
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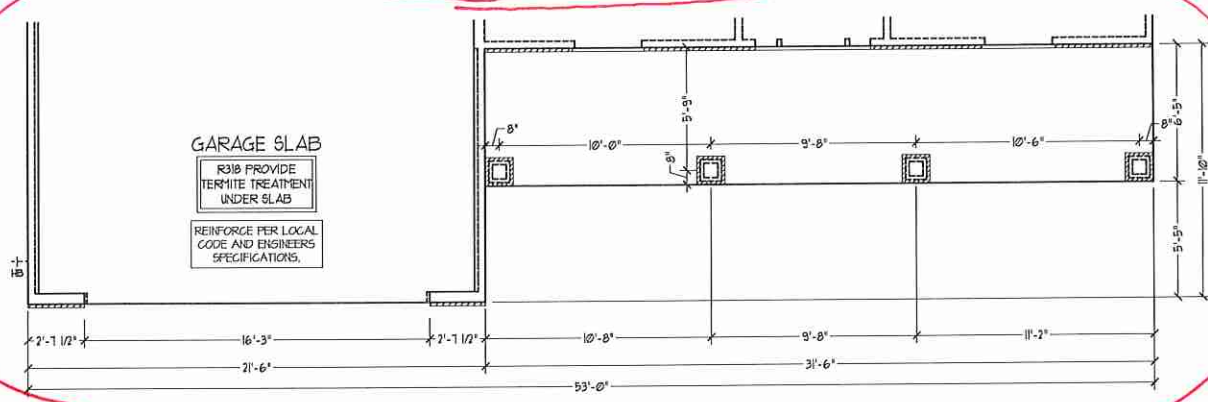
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SLAB INTERFACE PLAN - OPTIONS  
**A-4.1**

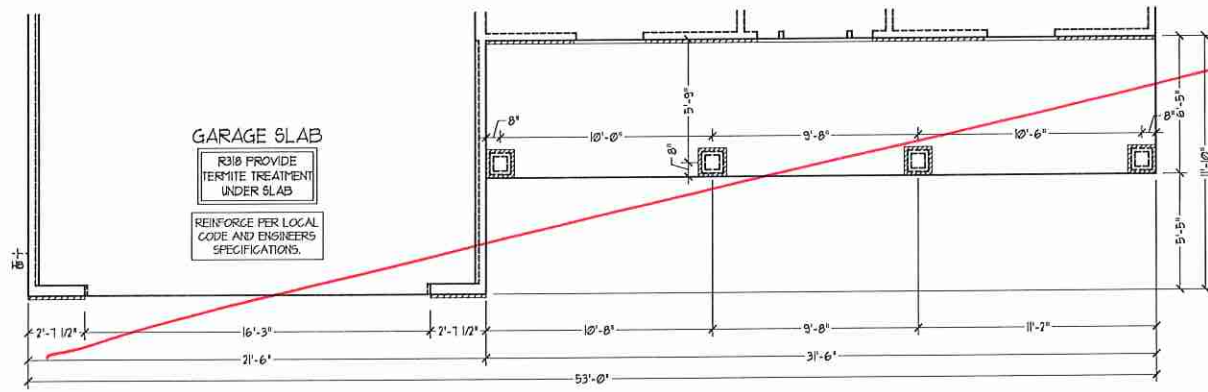




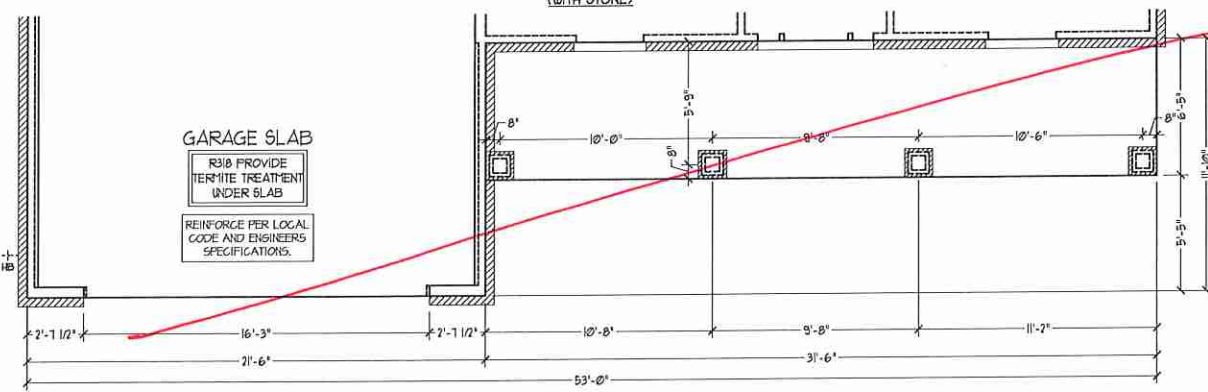
FOUNDATION PLAN B-1



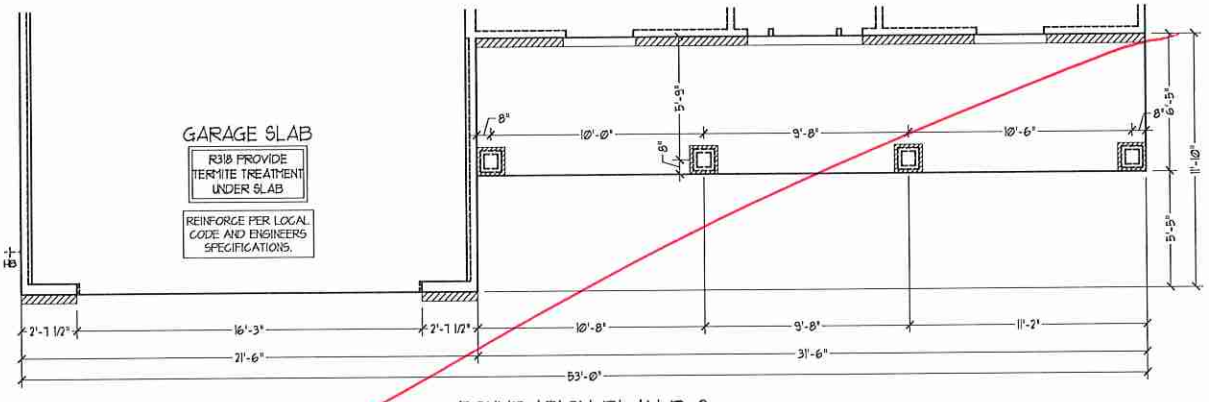
FOUNDATION PLAN B-2  
(WITH STONE)



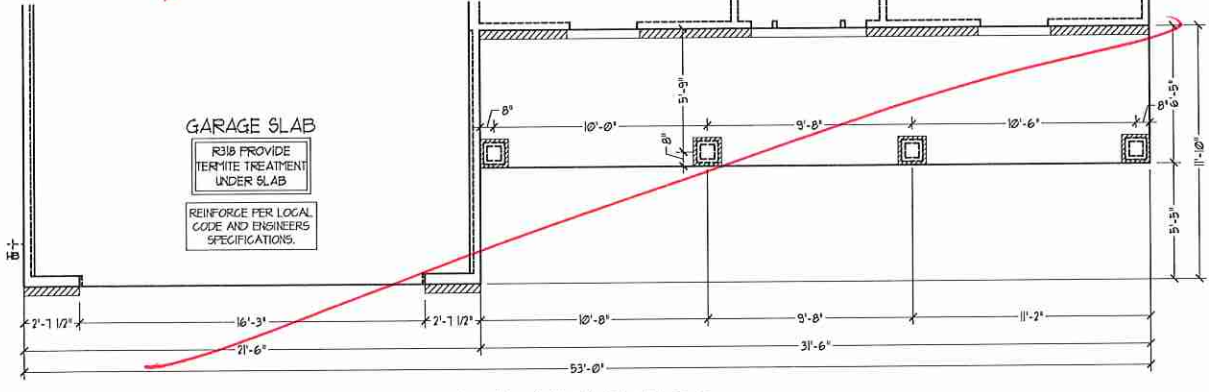
FOUNDATION PLAN B-3  
(WITH STONE)



FOUNDATION PLAN B-4  
(WITH STONE)



FOUNDATION PLAN B-2  
(WITH BRICK)



FOUNDATION PLAN B-3  
(WITH BRICK)

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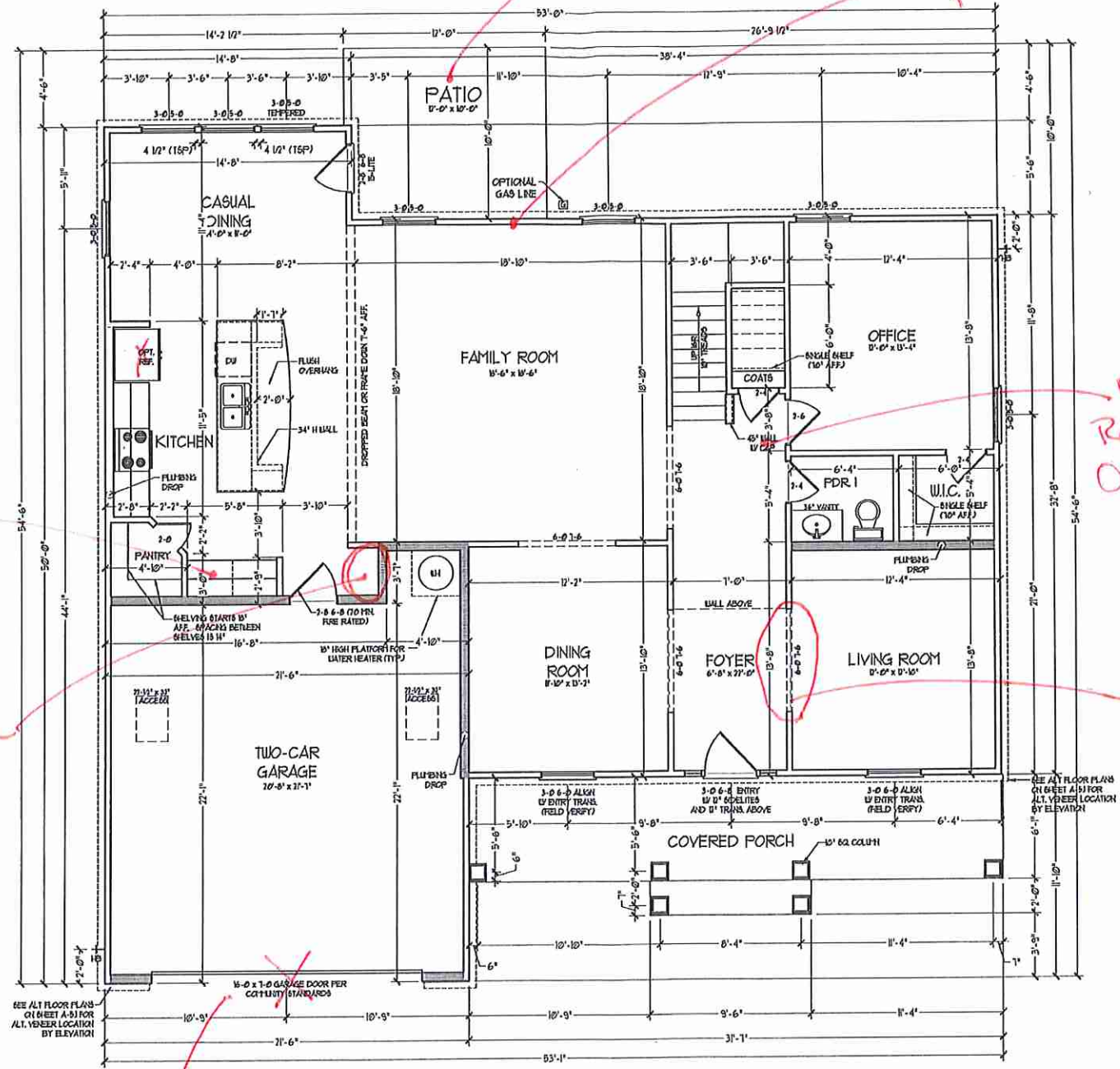
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ROOSEVELT

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SLAB INTERFACE  
PARTIAL PLANS -  
B ELEVATIONS

A-4.3



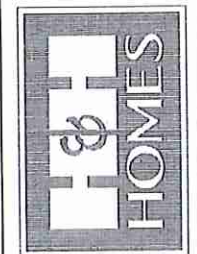


SQUARE FOOTAGE	
1st FLOOR	1563 SQ. FT.
2nd FLOOR	1069 SQ. FT.
TOTAL	2632 SQ. FT.
GARAGE	483 SQ. FT.
FRONT PORCH (A ELEVATION)	101 SQ. FT.
FRONT PORCH (B ELEVATION)	101 SQ. FT.
FRONT PORCH (C ELEVATION)	101 SQ. FT.
STANDARD REAR PATIO	11 SQ. FT.
OPTIONAL BASEMENT	1439 SQ. FT.
1st FLOOR OPTIONS	19 SQ. FT.
OPTIONAL FIREPLACE	19 SQ. FT.
UNHEATED OPTIONS	10 SQ. FT.
OPT 1-CAR GARAGE	240 SQ. FT.
OPT COVERED REAR PORCH	11 SQ. FT.
OPT 3-CAR SIDE ENTRY GARAGE	101 SQ. FT.

SQUARE FOOTAGE W/ FULL BRICK VENEER	
1st FLOOR	1646 SQ. FT.
2nd FLOOR	1071 SQ. FT.
TOTAL	2717 SQ. FT.
GARAGE	483 SQ. FT.
FRONT PORCH (A ELEVATION)	101 SQ. FT.
FRONT PORCH (B ELEVATION)	101 SQ. FT.
FRONT PORCH (C ELEVATION)	101 SQ. FT.
STANDARD REAR PATIO	11 SQ. FT.
OPTIONAL BASEMENT	1664 SQ. FT.
1st FLOOR OPTIONS	14 SQ. FT.
OPTIONAL FIREPLACE	14 SQ. FT.
UNHEATED OPTIONS	239 SQ. FT.
OPT 1-CAR GARAGE	100 SQ. FT.
OPT COVERED REAR PORCH	11 SQ. FT.
OPT 3-CAR SIDE ENTRY GARAGE	100 SQ. FT.

NOTES: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2" x 4" @ 16" O.C. (NDS). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2" x 4" @ 16" O.C. (NDS) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2" x 4" @ 16" O.C. (NDS).  
 1" BRICK WALL  
 1" BRICK WALLS ARE TO BE 2" x 6" @ 16" O.C. (LOAD BEARING) OR 2" x 8" @ 16" O.C. (NON-LOAD BEARING) UNLESS NOTED OTHERWISE.  
 PROVIDE MINIMUM INSULATION IN CEILING & WALLS PER SECTION N 1102J

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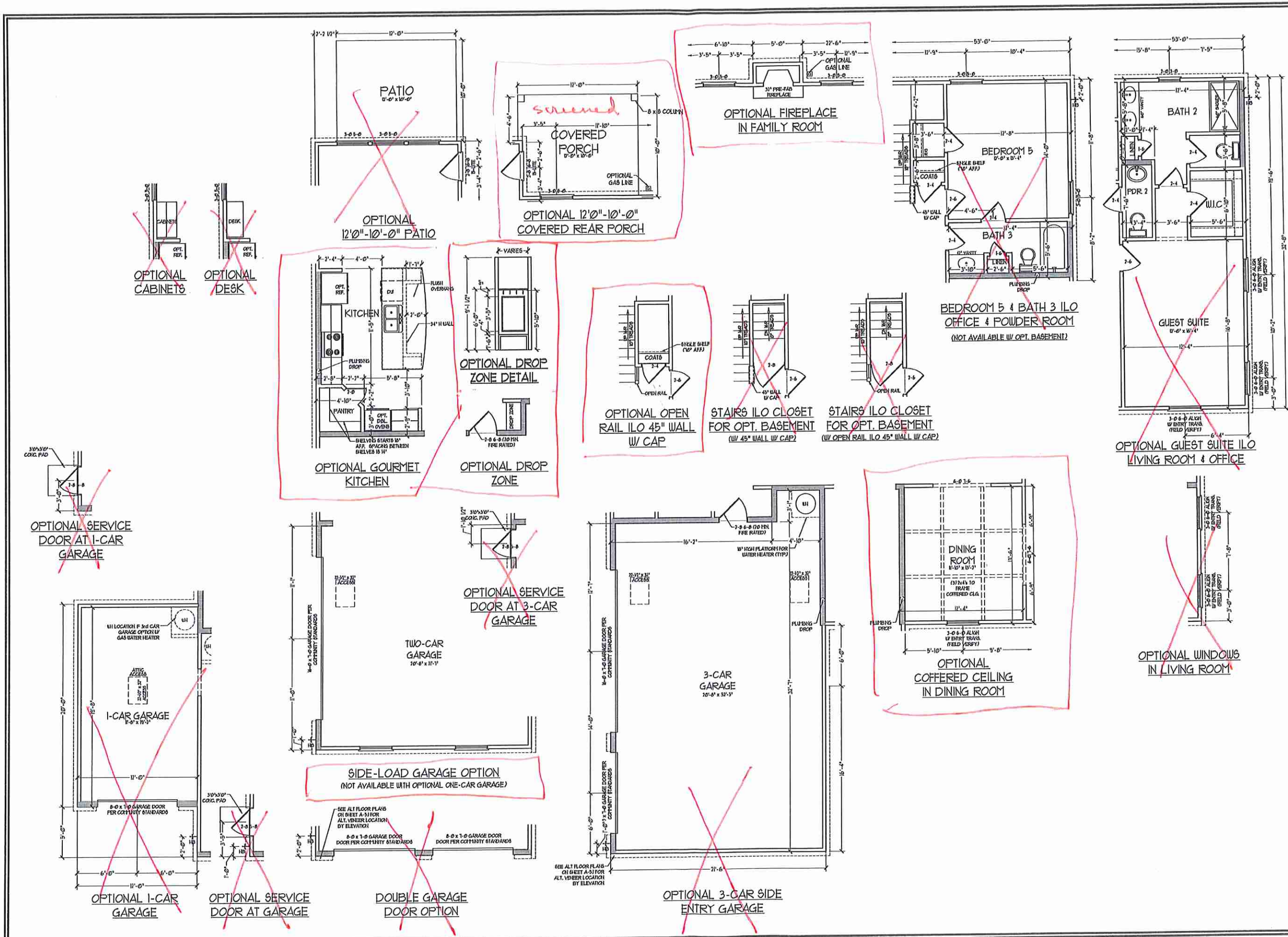
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FIRST FLOOR PLAN  
 A-6

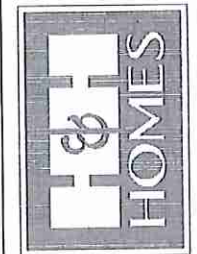
FIRST FLOOR PLAN (A-1)

SEE PARTIAL FLOOR PLAN ON SHEET A-5.2 FOR CHANGES TO THE EXTERIOR VENEER FOR ALL ELEVATIONS.





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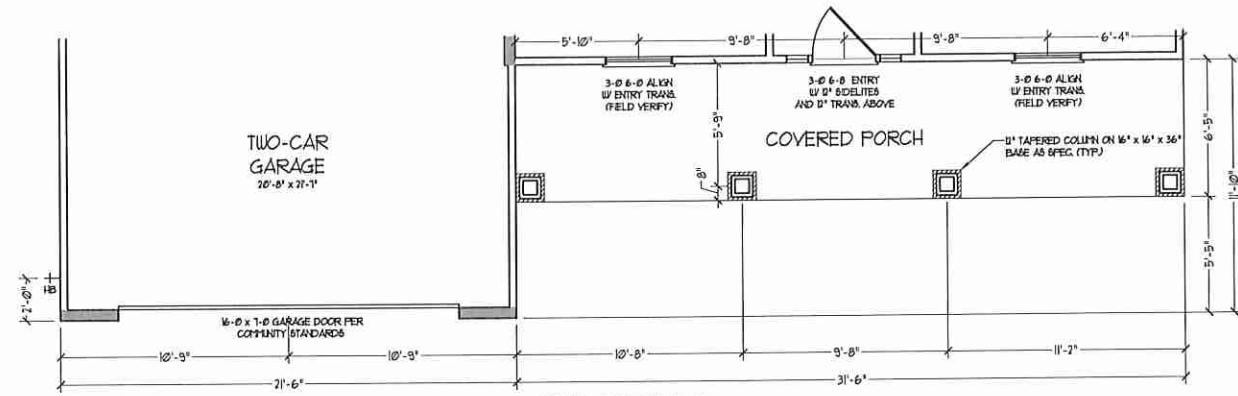
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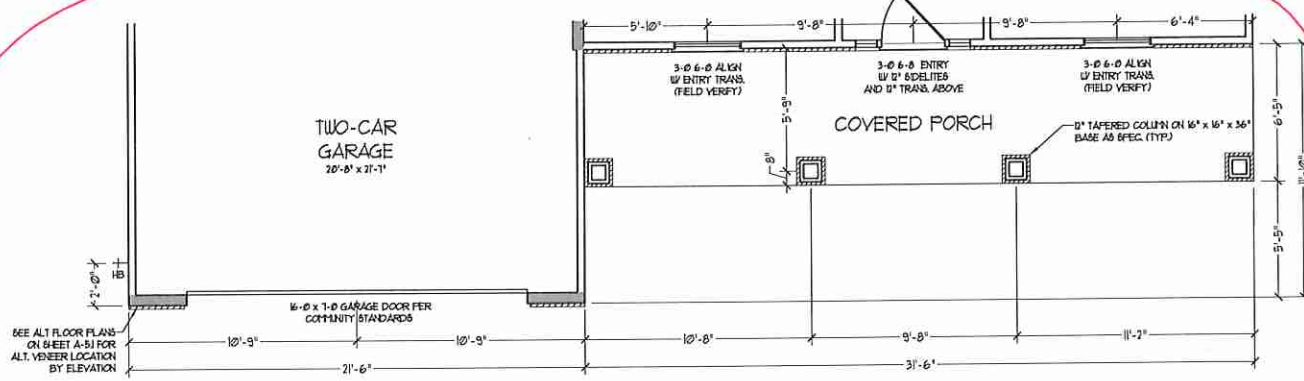
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FIRST FLOOR PLAN OPTIONS  
**A-6.1**

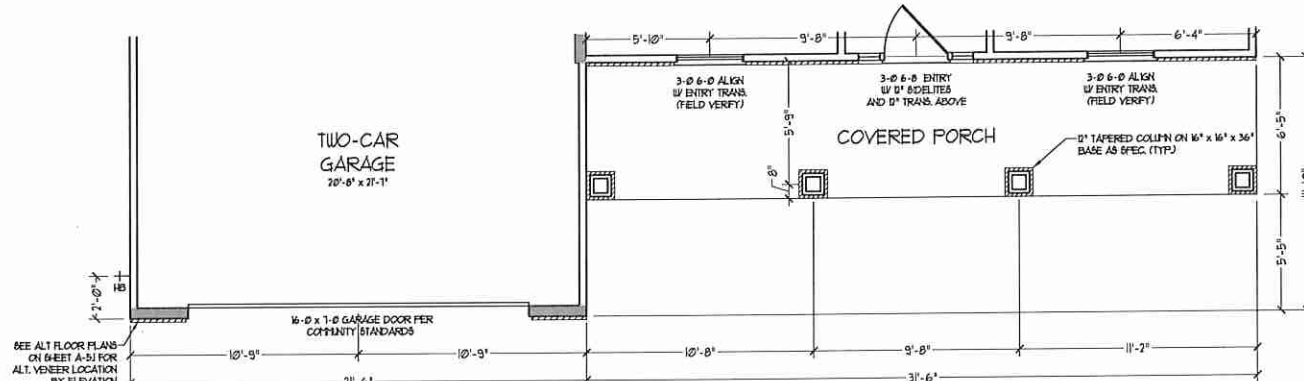




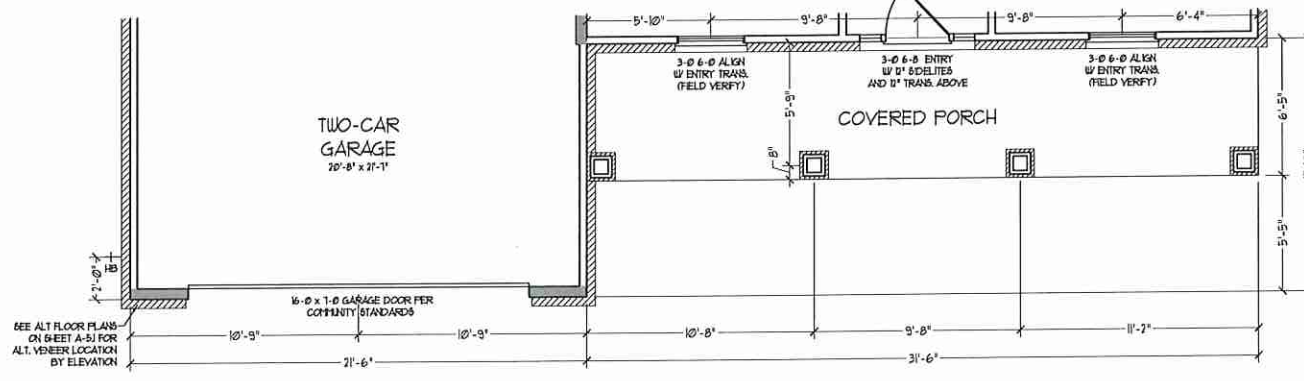
ELEVATION B-1



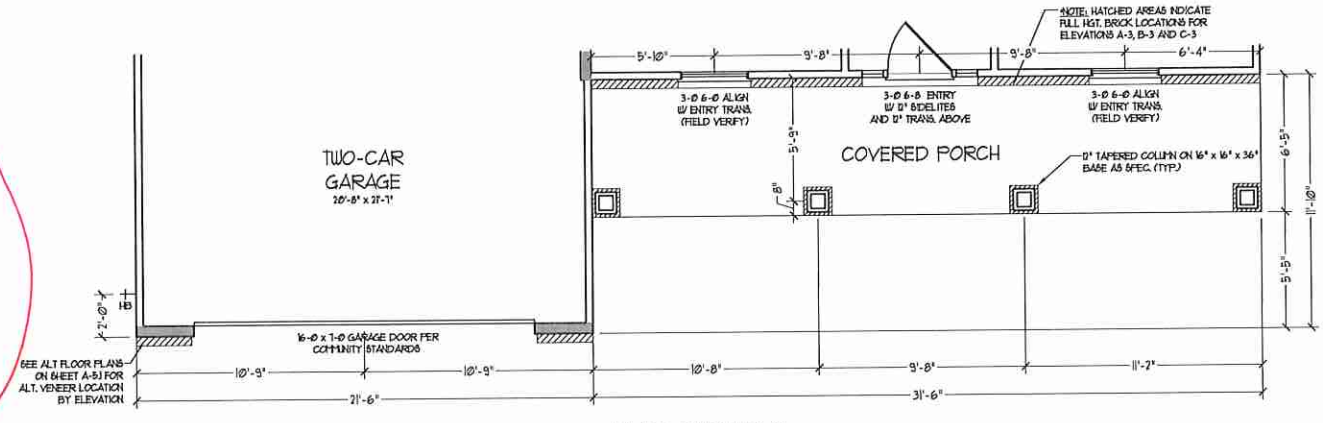
ELEVATION B-2  
(WITH STONE)



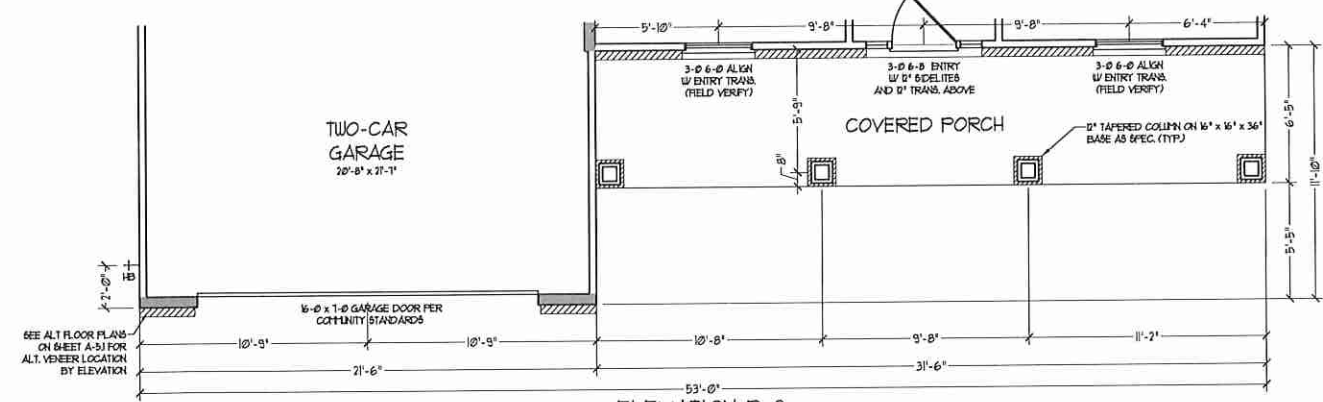
ELEVATION B-3  
(WITH STONE)



ELEVATION B-4  
(WITH STONE)

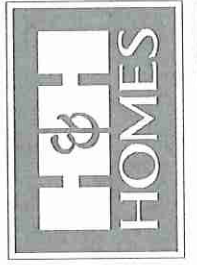


ELEVATION B-2  
(WITH BRICK)



ELEVATION B-3  
(WITH BRICK)

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 N.C. LICENSE NO. C-1133



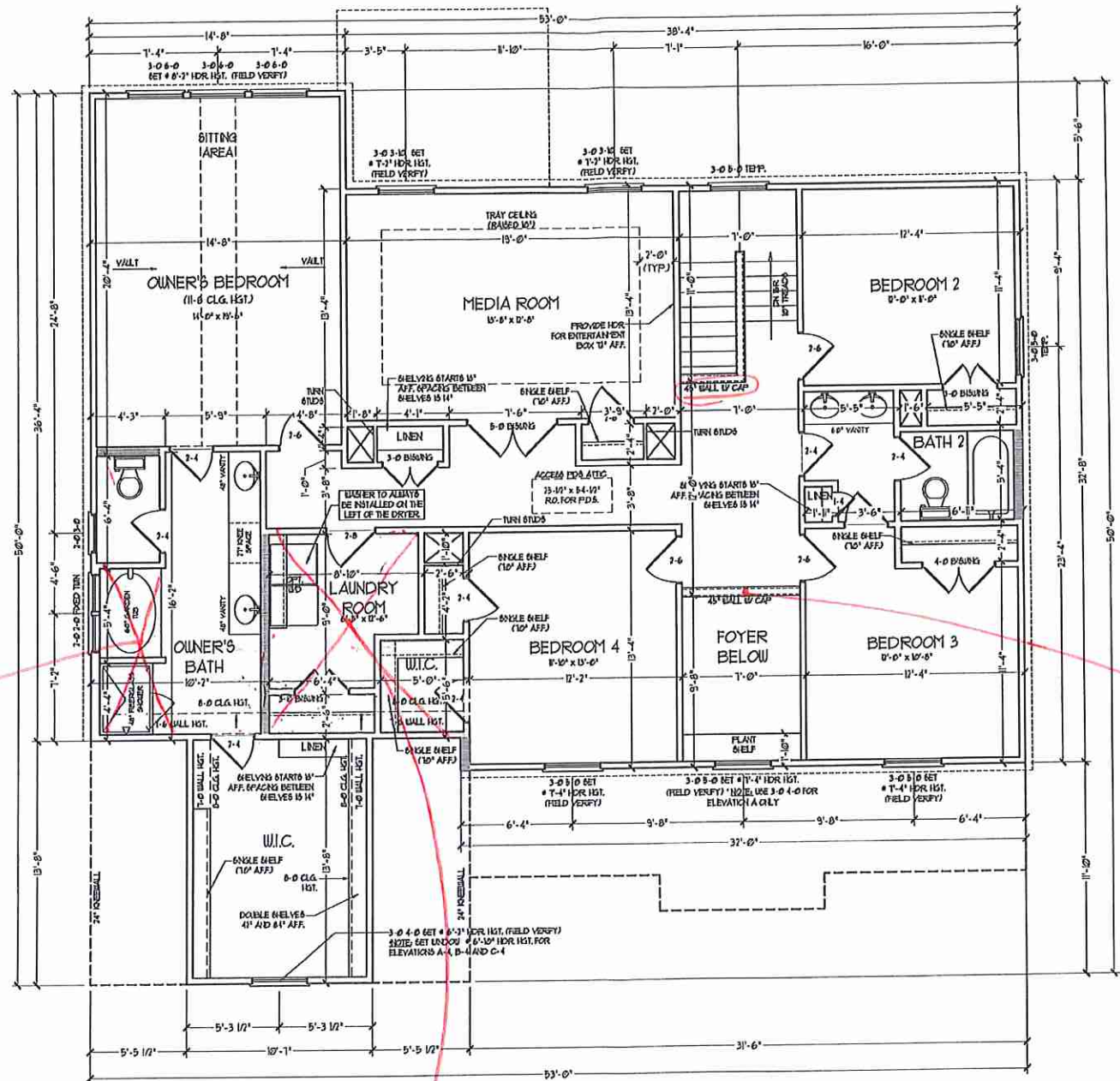
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H&H HOMES, INC.  
 ROOSEVELT

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

FIRST FLOOR  
 PARTIAL PLANS -  
 B ELEVATIONS  
 A-6.3





SECOND FLOOR PLAN

See Owner's Bath #3

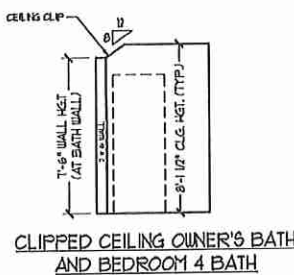
see Bath #4

ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2x4 @ 16" O.C. (N.D.) ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2x4 @ 16" O.C. (N.D.) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2x4 @ 24" O.C. (N.D.)

REDUCED WALLS ARE TO BE 2x6 @ 16" O.C. (LOAD BEARING) OR 2x6 @ 24" O.C. (NON-LOAD BEARING) REGARDLESS OF EXTERIOR WALL CONSTRUCTION

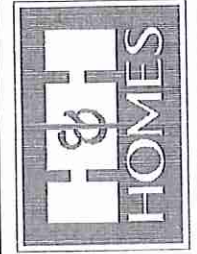
PROVIDE MINIMUM INSULATION IN CEILING AND WALLS PER SECTION N 1107J

Open Rail w/ Iron Pickets



CLIPPED CEILING OWNER'S BATH AND BEDROOM 4 BATH

J.S. THOMPSON ENGINEERING, INC  
105 WADE AVE., SUITE 101  
RALEIGH, NC 27608  
PHONE: (919) 786-9910  
FAX: (919) 786-9921  
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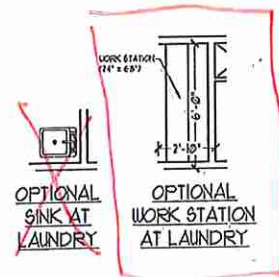
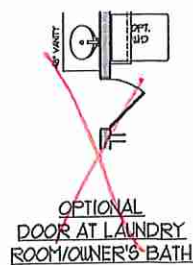
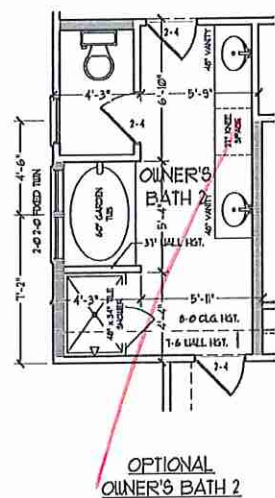
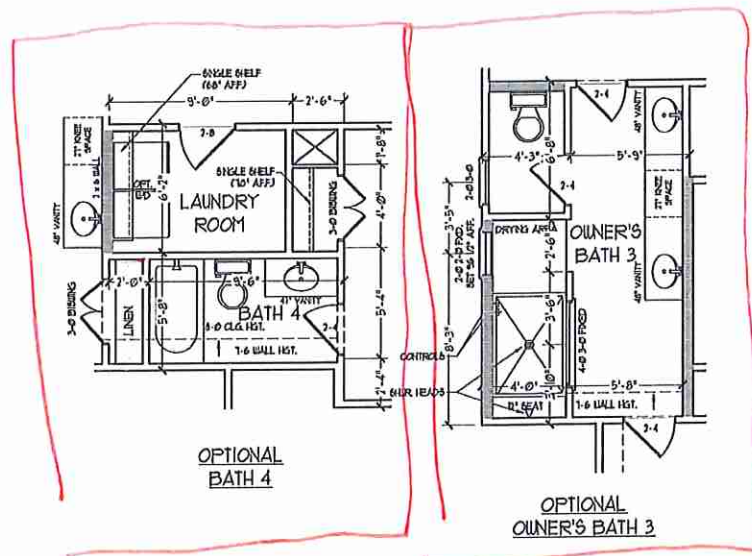
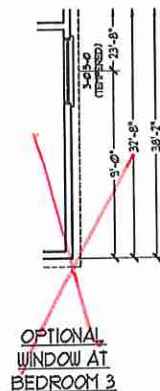
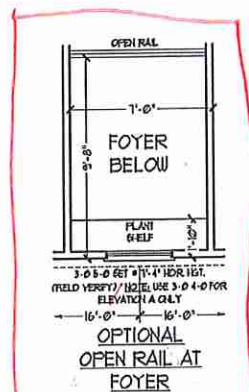
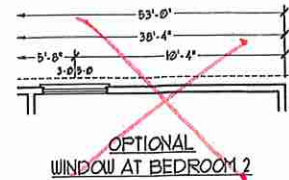
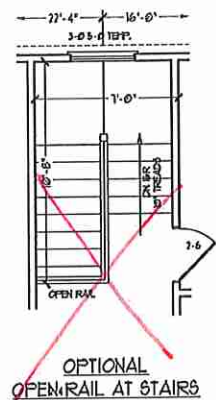
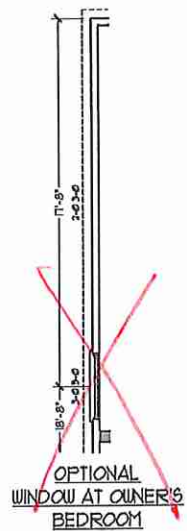
H&H HOMES, INC.  
ROOSEVELT

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ENGINEERED BY:  
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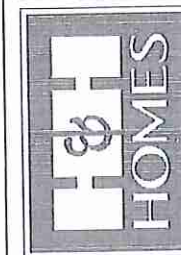
SECOND FLOOR PLAN  
A-7

L.S.





**J.S. THOMPSON**  
ENGINEERING, INC.  
406 WARD AVE., SUITE 101  
RALEIGH, NC 27604  
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FAX: (919) 286-9921  
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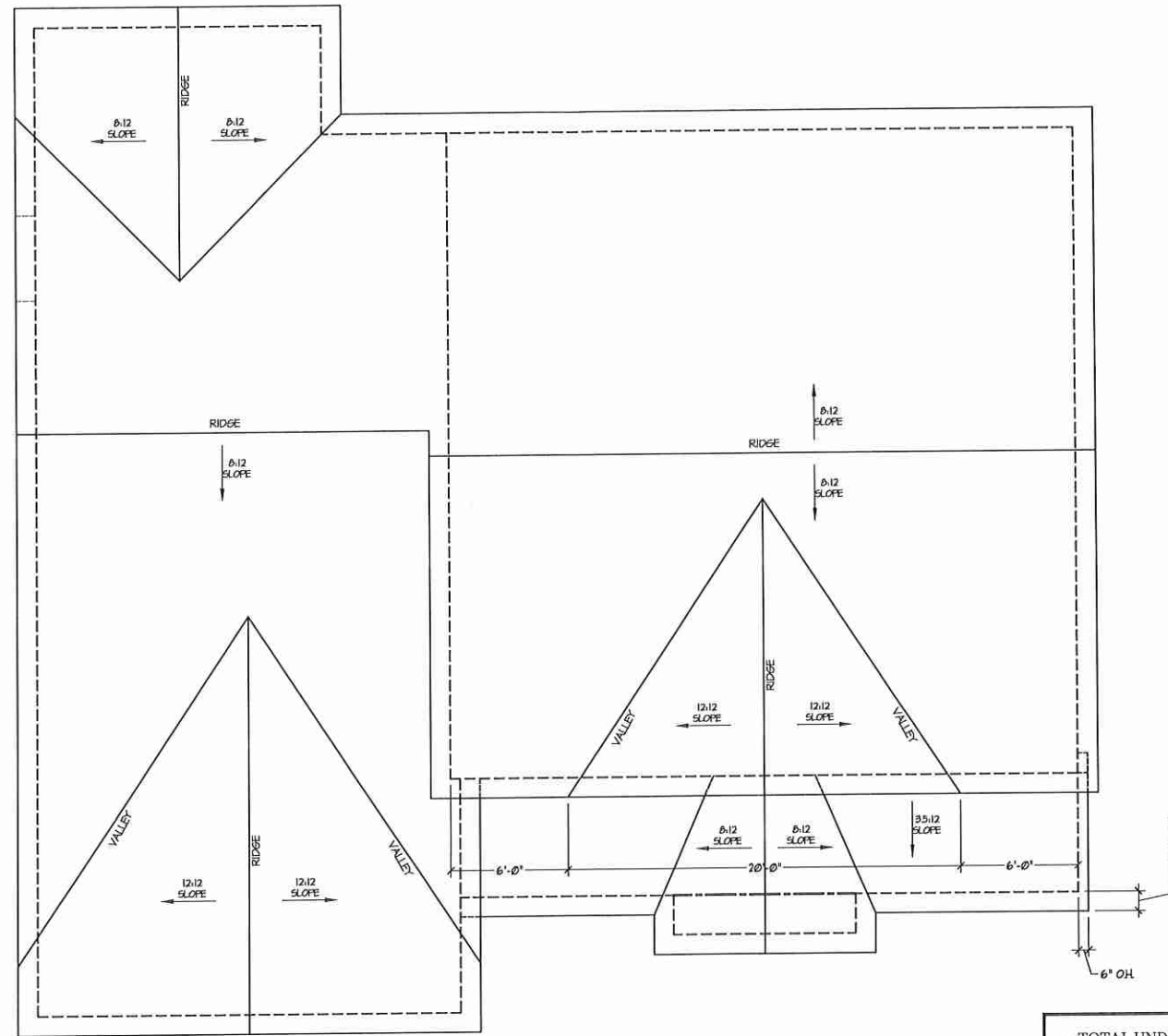
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ROOSEVELT

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SECOND FLOOR PLAN - OPTIONS

A-7.1

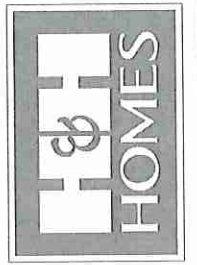




ROOF PLAN

TOTAL UNDER ROOF AREA:		1918	SQ. FT.
VENTING AREA REQUIRED:	$\frac{1918 \text{ SQ. FT.}}{300} =$	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

**J.S. THOMPSON**  
**ENGINEERING, INC.**  
 100 WADE AVE., SUITE 104  
 RALEIGH, NC 27605  
 PHONE: 919 784-0339  
 FAX: 919 784-0321  
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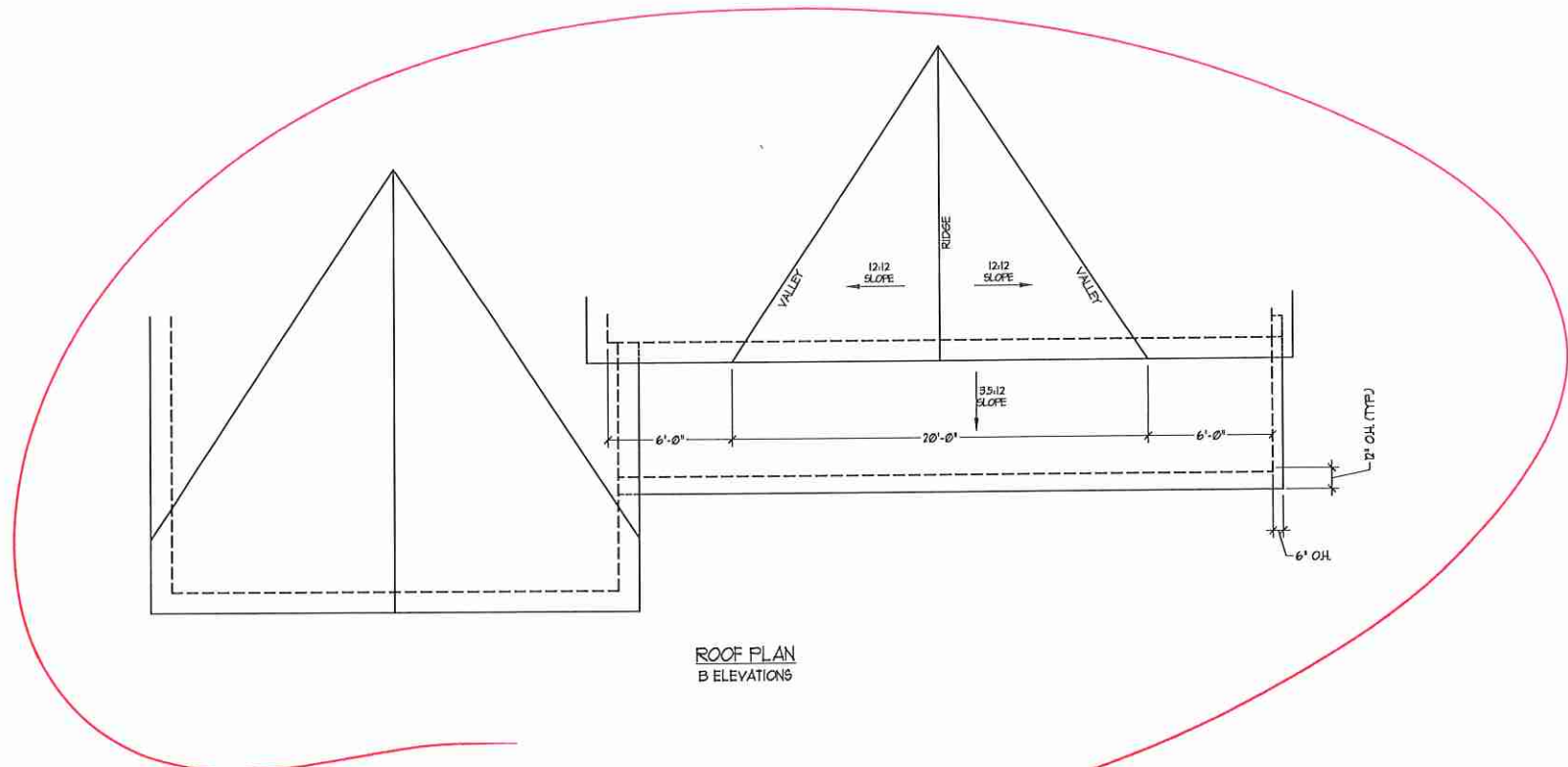


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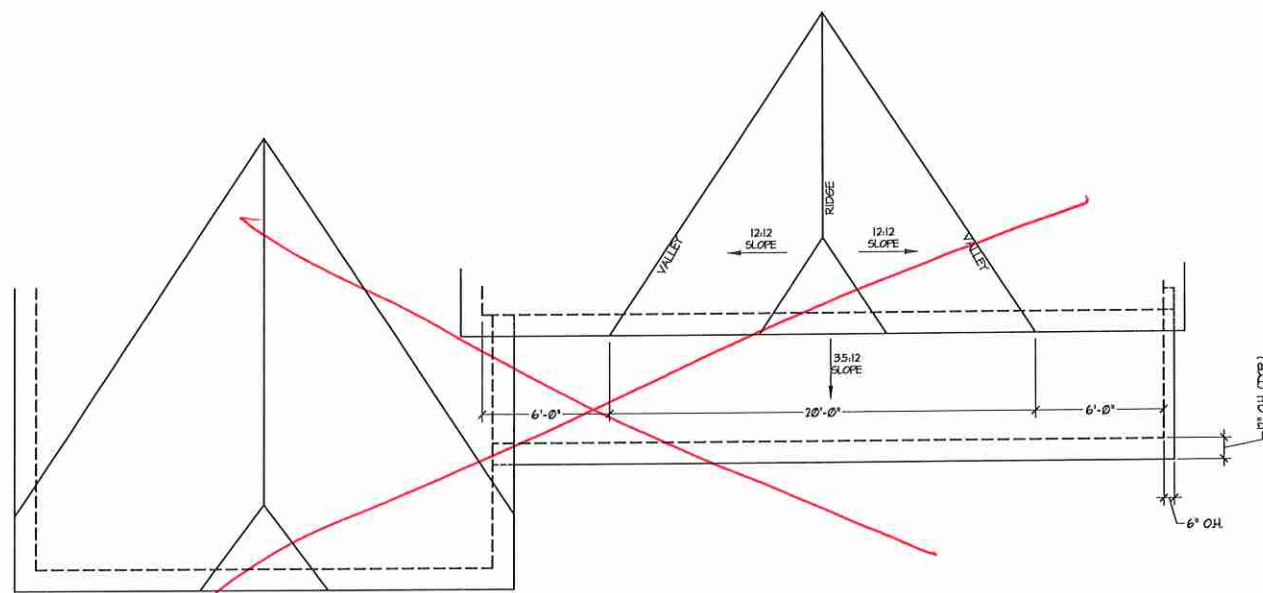
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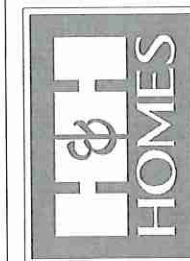


ROOF PLAN  
B ELEVATIONS



ROOF PLAN  
C ELEVATIONS

**J.S. THOMPSON**  
ENGINEERING, INC.  
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RALEIGH, NC 27605  
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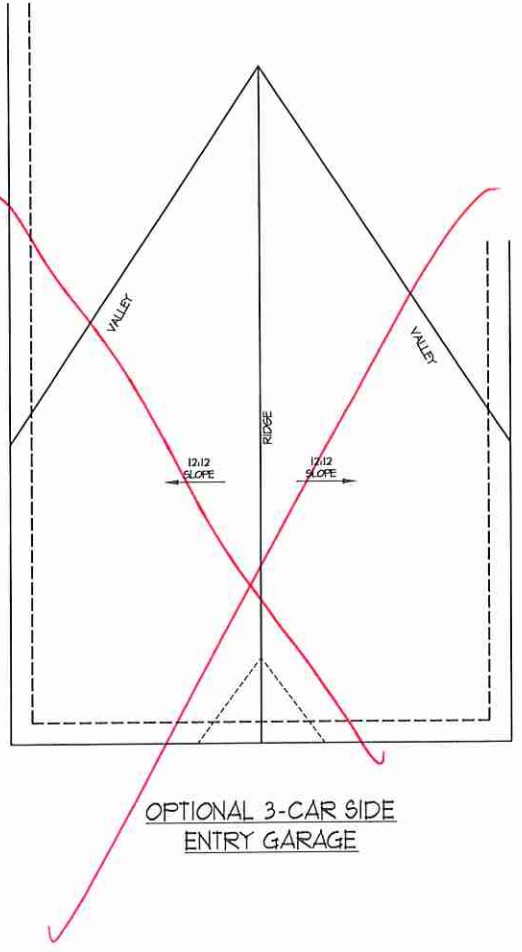
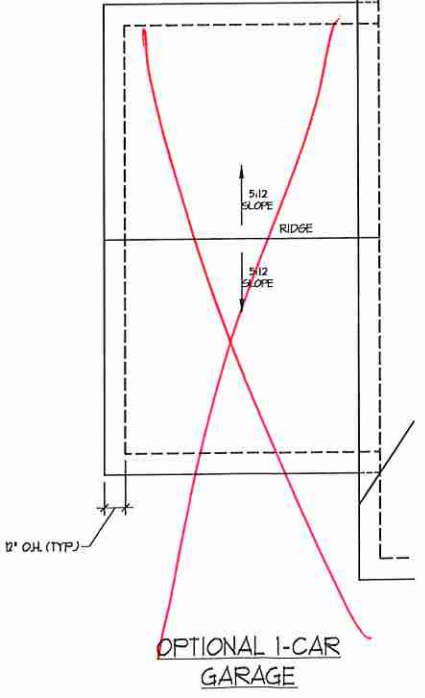
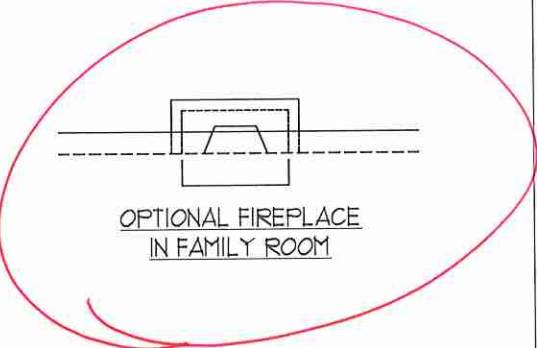
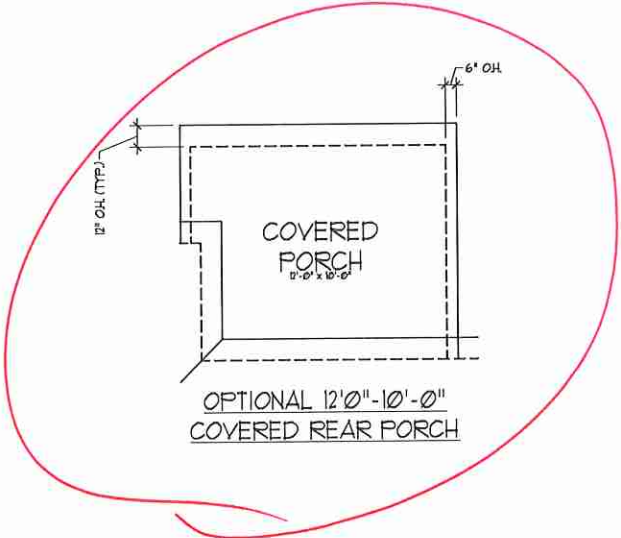
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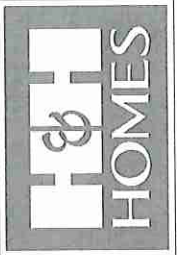
B & C  
ELEVATIONS  
PARTIAL ROOF  
PLANS

A-8.1





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RALEIGH, NC 27605  
PHONE: (919) 286-9929  
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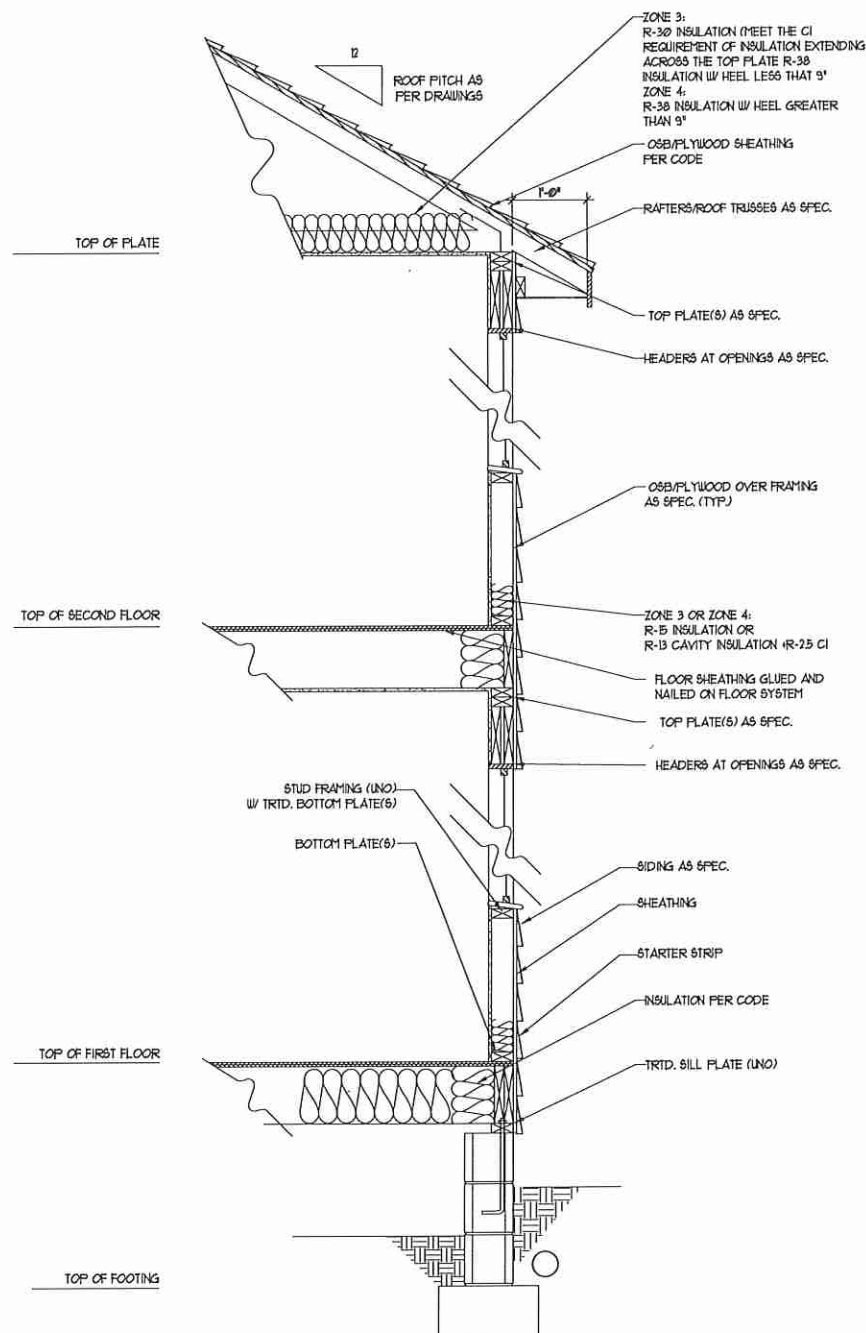
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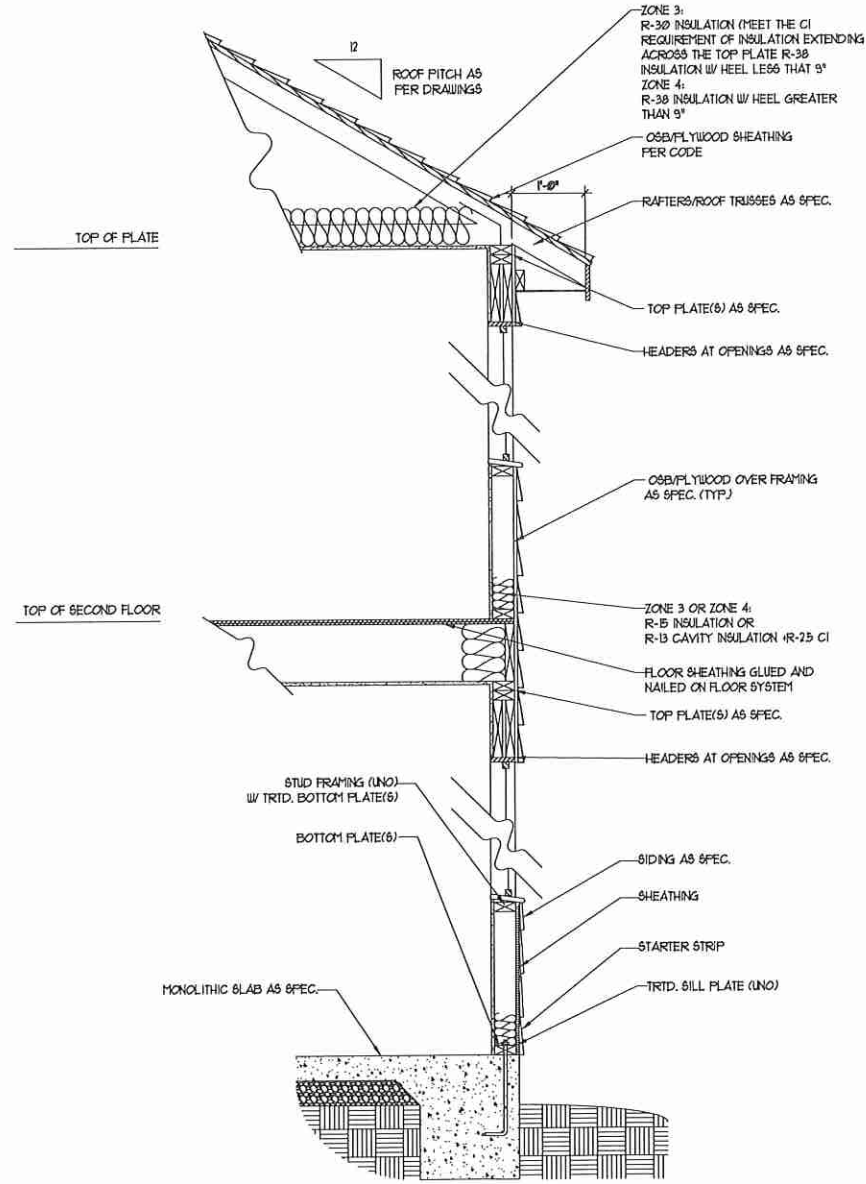
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ROOF PLANS -  
OPTIONS  
A-8.2

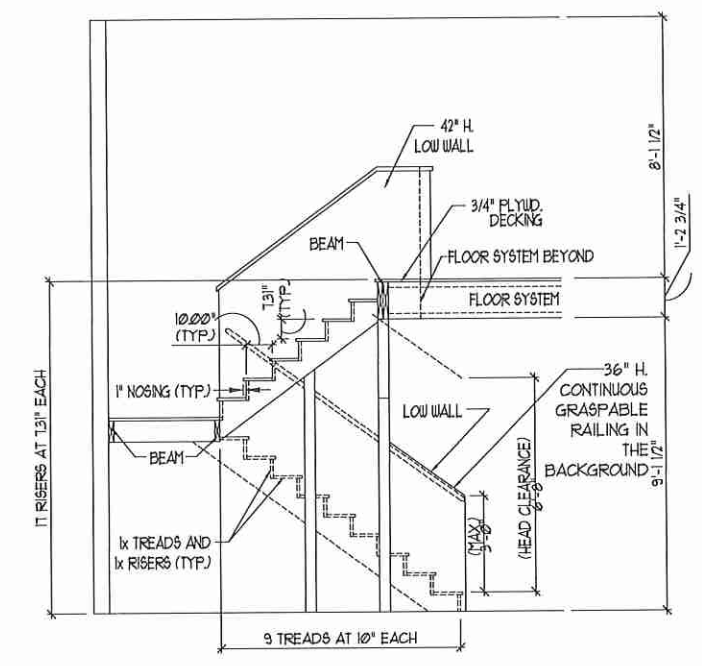




WALL SECTION W/ CRAWL SPACE  
W/ STD. SIDING SHOWN (NTS)



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 1-1/2 INCH BETWEEN THE WALL AND HANDRAILS.

CONTINUOUS GRASPABLE HANDRAIL MUST MEET TYPE ONE OR TYPE TWO CRITERIA

**J.S. THOMPSON  
ENGINEERING, INC.**  
600 WADE AVE., SUITE 104  
RALEIGH, NC 27605  
PHONE: (919) 240-9949  
FAX: (919) 749-8921  
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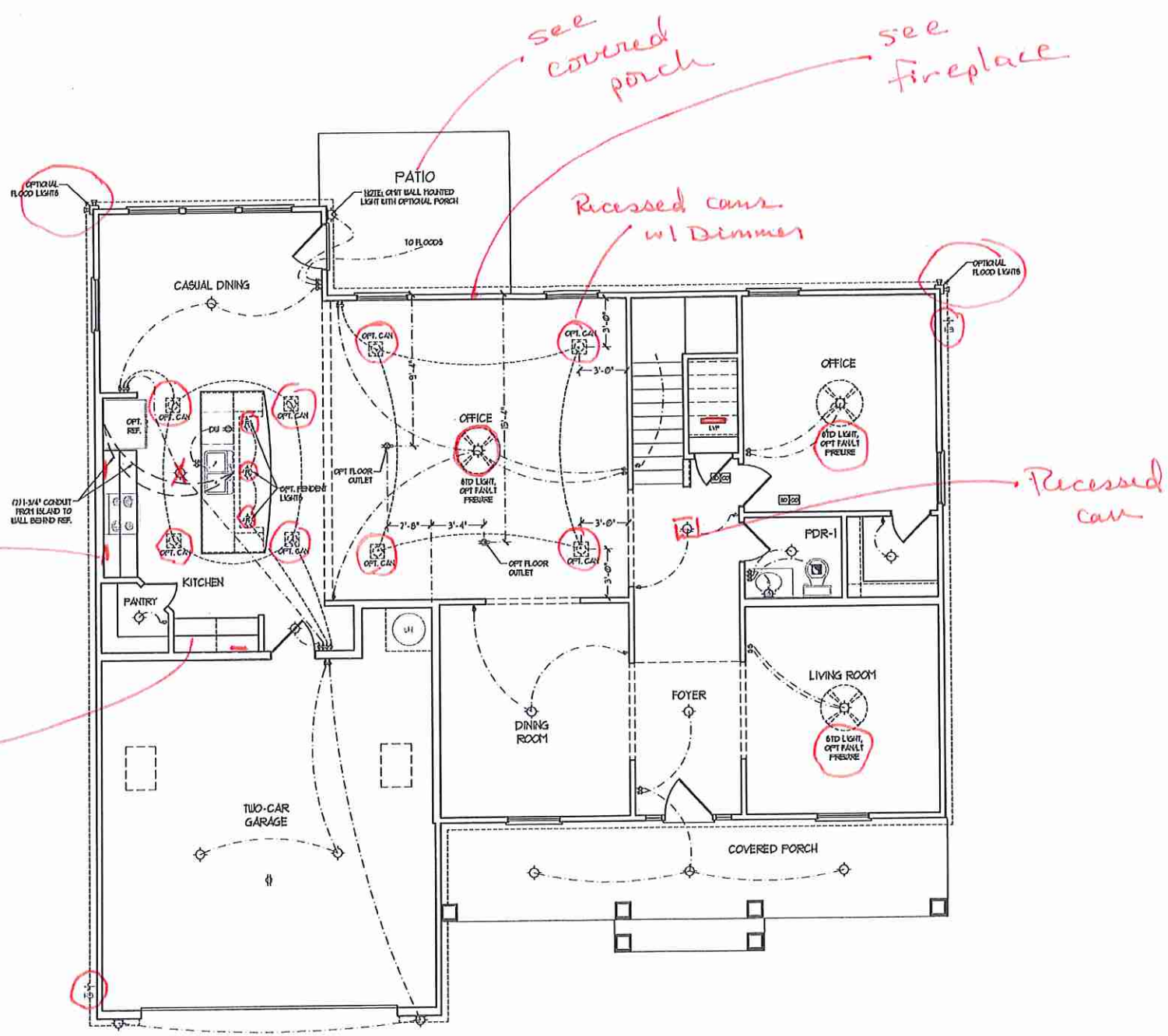


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**ROOSEVELT**

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DRAWN BY:  
ENGINEERED BY:  
REVIEWED BY:  
WALL SECTIONS  
AND STAIR  
DETAIL  
**AD-1**





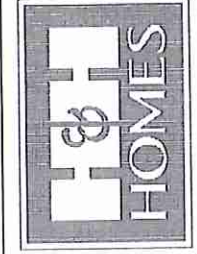
**ELECTRICAL LAYOUT NOTES:**

- 1) BLOCK AND USE FOR ALL CEILING FANS PER PLAN
- 2) VARY LIGHTS TO BE SET # 50' AFF. (TYP)
- 3) ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN
- 4) PLACE SWITCHES 6" FROM FRONT ROUGH OPENING.

**ELECTRICAL LEGEND**

	10 V OUTLET
	WALL MOUNT LIGHT
	CEILING MOUNT LIGHT
	PENDANT LIGHT
	RECESSED CAN LIGHT
	PIS CAN LIGHT
	EYEBALL LIGHT
	FLUORESCENT LIGHT
	3 LAMP, 4' FLUORESCENT LIGHT
	FLOOD LIGHT
	SWITCH
	3-WAY SWITCH
	4-WAY SWITCH
	DIFFER SWITCH
	CIRCUIT BREAKER
	MEAKER
	DOORBELL CHIME
	NO V SHOCK DETECTOR
	CO DETECTOR
	EXHAUST FAN
	LOW VOLTAGE PANEL
	CEILING FAN
	CEILING FAN W/ LIGHT

**J.S. THOMPSON ENGINEERING, INC.**  
 600 WADE AVE., SUITE 104  
 RALEIGH, NC 27609  
 PHONE: (919) 286-9910  
 FAX: (919) 286-9921  
 N.C. LICENSE NO. C-17-33

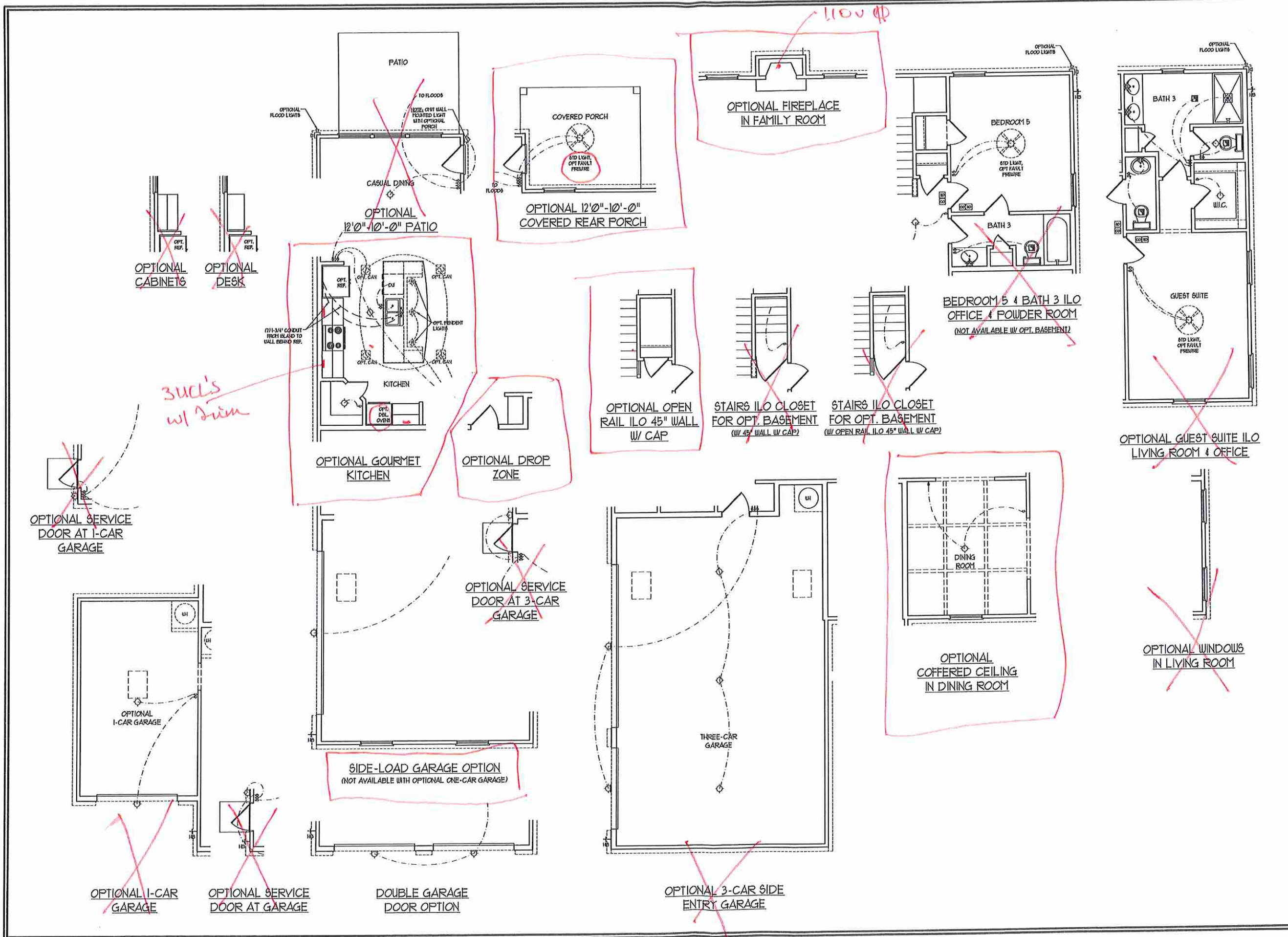


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 ENGINEERED BY:  
 REVIEWED BY:  
 FIRST FLOOR ELECTRICAL PLAN  
 E-1

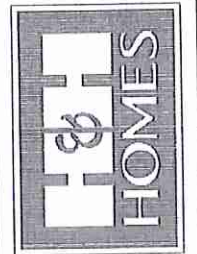
FIRST FLOOR PLAN (A-1)



~~OPTIONAL CABINETS~~  
~~OPTIONAL DESK~~

*3UCL's w/ trim*

**I.S. THOMPSON ENGINEERING, INC.**  
100 WADE AVE., SUITE 101  
RALEIGH, NC 27605  
PHONE: (919) 284-9100  
FAX: (919) 284-9121  
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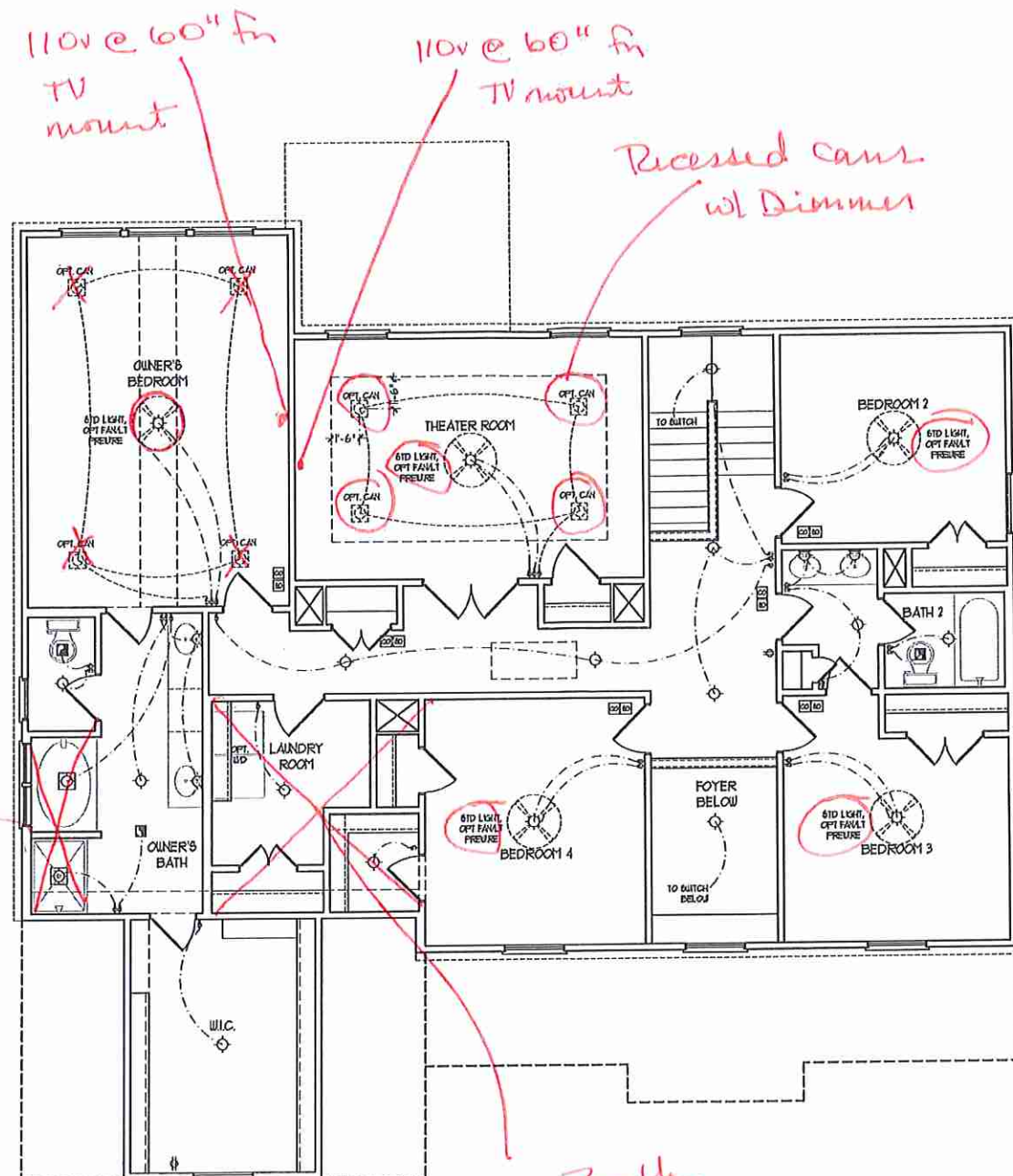
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F.F. ELECTRICAL  
PLAN OPTIONS  
E-1.1





see Owner's Bath # 2

see Bath # 4

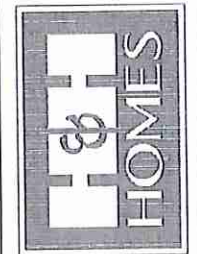
SECOND FLOOR PLAN

- ELECTRICAL LAYOUT NOTES:**
- 1) BLOCK AND USE FOR ALL CEILING FAN PER PLAN
  - 2) VANITY LIGHTS TO BE SET @ 50" AFF. (TYP)
  - 3) ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN
  - 4) PLACE SWITCHES @ MINIMUM 18" FROM OPENING

**ELECTRICAL LEGEND**

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

**J.S. THOMPSON ENGINEERING, INC.**  
 100 WADE AVE., SUITE 104  
 RALEIGH, NC 27605  
 PHONE: (919) 286-9910  
 FAX: (919) 787-9931  
 N.C. LICENSE NO. C-1213

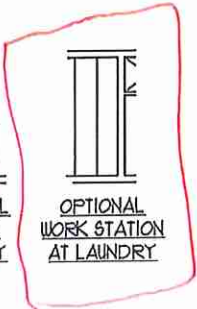
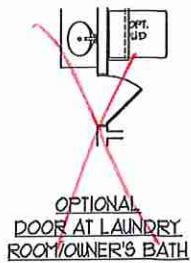
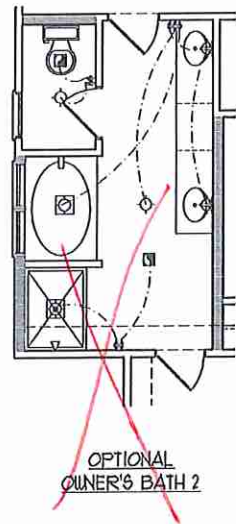
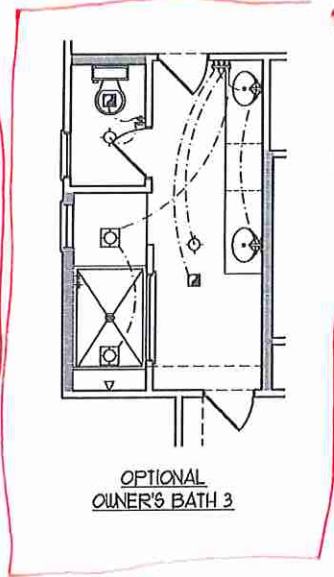
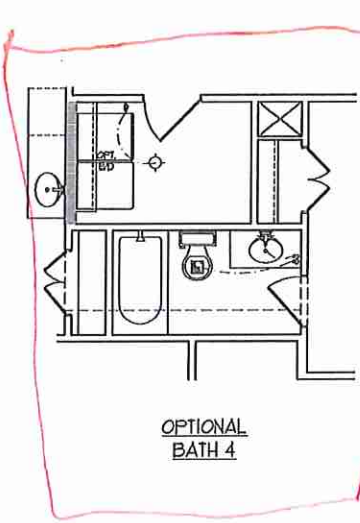
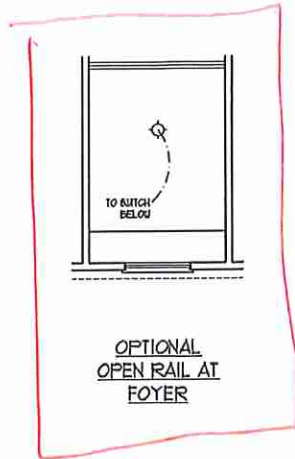
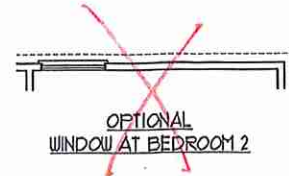
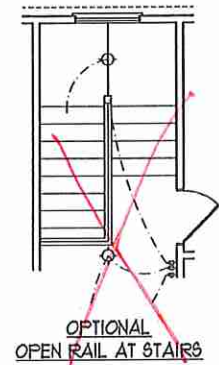
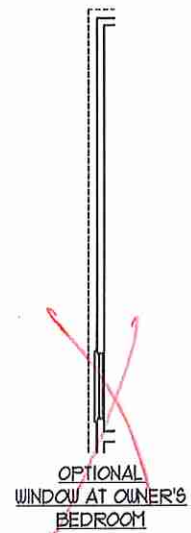


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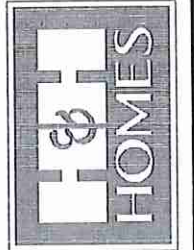
H&H HOMES, INC.  
 ROOSEVELT

DATE: APRIL 26, 2017  
 REV.: MAY 01, 2020  
 SCALE: 1/4" = 1'-0"  
 DRAWN BY:  
 ENGINEERED BY:  
 REVIEWED BY:  
 SECOND FLOOR ELECTRICAL PLAN  
 E-2

5



**J.S. THOMPSON ENGINEERING, INC.**  
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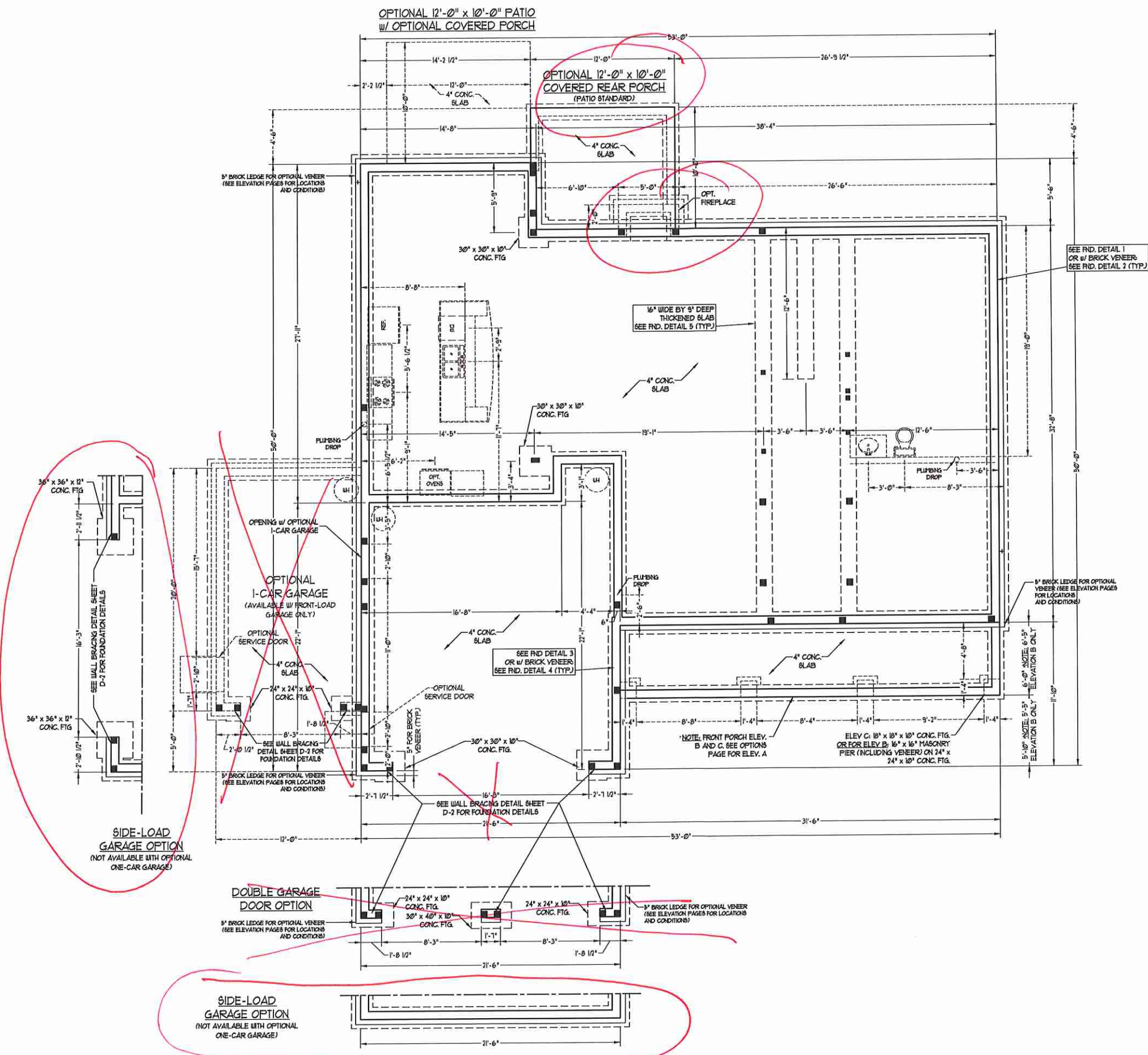
H&H HOMES, INC.  
 ROOSEVELT

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

E-2.1

LS





**80 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 10 MPH WINDS.
- WALL CLADDING DESIGNED FOR +25 PSF AND -20 PSF (W. INDICATE POSITIVE / NEGATIVE PRESSURE (TYP)).
- ROOF CLADDING DESIGNED FOR +43 PSF AND -18 PSF FOR ROOF PITCHES 1/2 TO 2/12 AND +25 PSF AND -35 PSF FOR ROOF PITCHES 2/12 TO 1/12.
- INSTALL 1/2" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STOREYS IN ACCORDANCE WITH SECTION BRACKETS 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 1 OF THE NRC, 2008 EDITION.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

**60 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 WITH SPECIAL CONSIDERATION TO CHAPTER 45 (HIGH WIND ZONES) FOR 60 MPH WINDS.
- BUILDER IS TO PROVIDE FRAMING CONNECTIONS AS REQUIRED BY CHAPTER 45 (HIGH WIND ZONES) FOR 60 MPH WINDS) OF THE NORTH CAROLINA RESIDENTIAL CODE, 2008 EDITION.
- FOUNDATION ANCHORAGE TO COMPLY WITH SECTION 4504 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2008 EDITION.
- MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
- WALL CLADDING DESIGNED FOR +43 PSF AND -31 PSF (W. INDICATE POSITIVE / NEGATIVE PRESSURE (TYP)).
- ROOF CLADDING DESIGNED FOR +22 PSF AND -18 PSF FOR ROOF PITCHES 1/2 TO 2/12 AND +25 PSF AND -31 PSF FOR ROOF PITCHES 2/12 TO 1/12.
- 1/2" OSB SHEATHING IS REQUIRED ON ALL EXTERIOR WALLS.
- WALLS TO BE BRACED IN ACCORDANCE WITH SECTION BRACKETS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2008 EDITION AND AS NOTED ON PLANS.
- ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 1 OF THE NRC, 2008 EDITION.

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 N.C. LICENSE NO.: C-1173

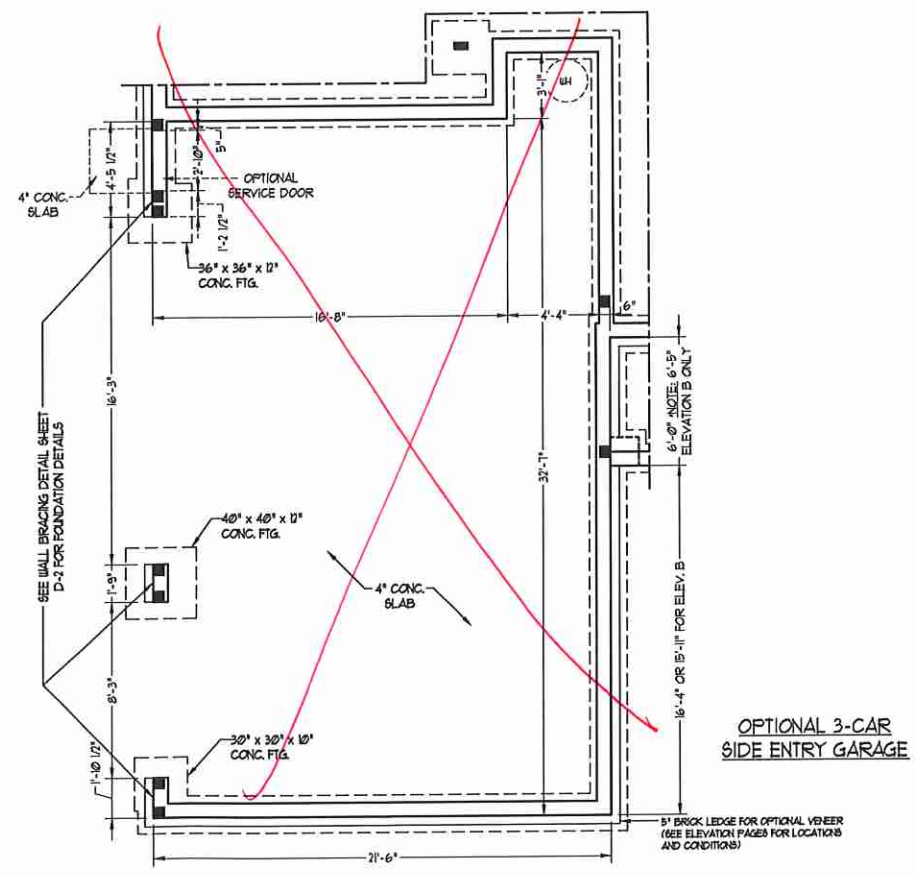
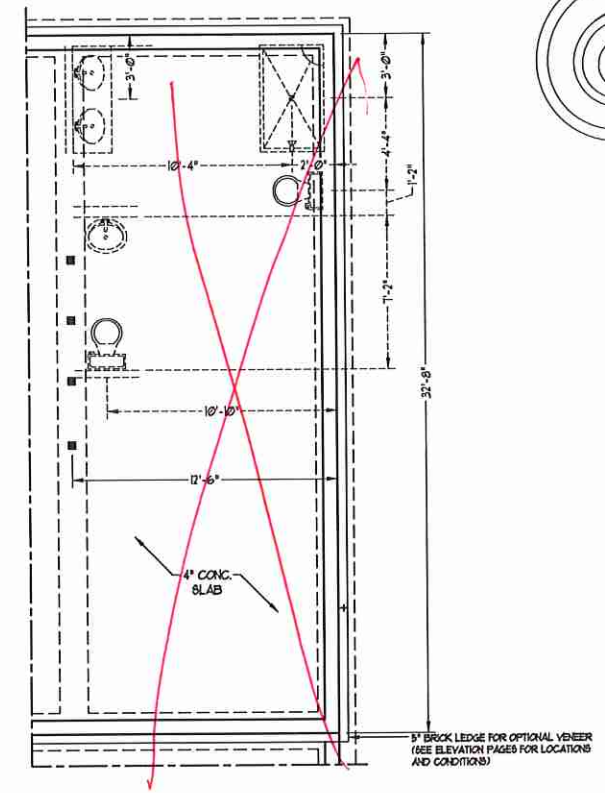
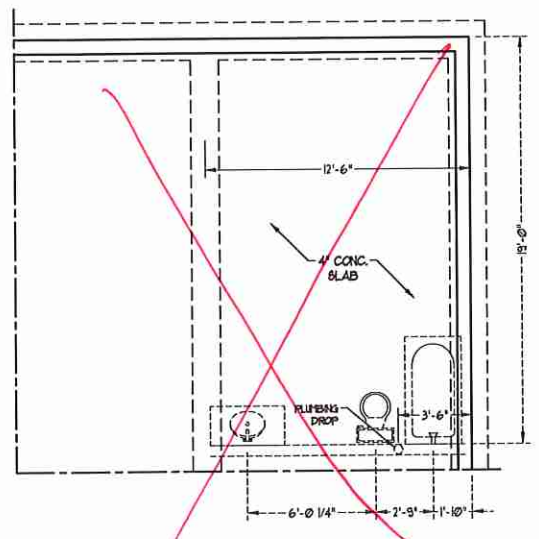
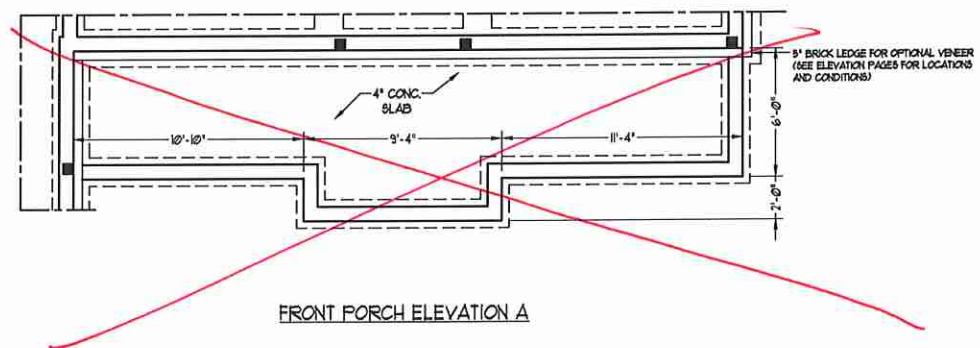
ROOSEVELT  
 H&H HOMES, INC.



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

SHEET: 5 OF 12  
 S-1.3a  
 STEM WALL FOUNDATION PLAN

8/27/2020



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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 6 OF 12  
S-1.3b  
STEM WALL  
FOUNDATION PLAN



OPTIONAL 12'-0" x 10'-0" PATIO  
w/ OPTIONAL COVERED PORCH

OPTIONAL FIREPLACE  
IN FAMILY ROOM

OPTIONAL 12'-0" x 10'-0"  
COVERED REAR PORCH  
(PATIO STANDARD)

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 NOTES:**

- BRACED WALL DESIGN PER SECTION R602.10 OF THE NRC 2018 EDITION.
- C5-45P REFERS TO "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL 1/8" OSB ON ALL EXTERIOR WALLS ATTACHED w/ 8d NAILS 5" SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.
- G5 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 5" 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 NRC 2018 EDITION.
- SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

**BRACED WALL DESIGN**

RECTANGLE A		RECTANGLE B	
SIDE 1A (FRONT LOAD)	METHOD: C5-45P/FF TOTAL REQUIRED LENGTH: 13.10' TOTAL PROVIDED LENGTH: 28'	SIDE 1B	METHOD: C5-45P/FF TOTAL REQUIRED LENGTH: 2.30' TOTAL PROVIDED LENGTH: 6'
SIDE 2A	METHOD: C5-45P TOTAL REQUIRED LENGTH: 13.10' TOTAL PROVIDED LENGTH: 21.83'	SIDE 2B	METHOD: C5-45P TOTAL REQUIRED LENGTH: 2.30' TOTAL PROVIDED LENGTH: 12'
SIDE 3A (SIDE LOAD)	METHOD: C5-45P/FF TOTAL REQUIRED LENGTH: 14.63' TOTAL PROVIDED LENGTH: 40.66'	SIDE 3B	METHOD: C5-45P TOTAL REQUIRED LENGTH: 7' TOTAL PROVIDED LENGTH: 15.58'
SIDE 4A	METHOD: C5-45P TOTAL REQUIRED LENGTH: 14.63' TOTAL PROVIDED LENGTH: 21.15'	SIDE 4B / 3A COMBINED	METHOD: C5-45P/GB TOTAL REQUIRED LENGTH: 16.63' TOTAL PROVIDED LENGTH: 40.66'

**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 LLY
8 AND GREATER	L 6 x 4 x 5/16 LLY

**STRUCTURAL NOTES:**

- ALL FRAMING LUMBER TO BE 6FT 2" (UNO). ALL TREATED LUMBER TO BE 6FT 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 R602.15 FOR ADDITIONAL KING STUD REQUIREMENTS.
- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDERS OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO).
- FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO BE SHEATHED WITH 1/8" OSB SHEATHING WITH JOISTS 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 JOISTS AND SHALL OVERLAP GIRDERS AND DOUBLE BILL PLATES THEIR FULL DEPTH.
- ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS w/ 8" SPAN ABU4 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.

**BRICK SUPPORT NOTES:**

- LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO). SEE ARCH DINGS FOR SIZE AND LOCATION OF OPENINGS.
- (LLV) = LONG LEG VERTICAL
- LENGTH = CLEAR OPENING
- EPBIBED ALL ANGLE IRONS MIN. 4" EACH SIDE INTO VENEER TO PROVIDE BEARING.
- FOR ALL HEADERS 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) 10d NAILS PER PLY. FASTEN A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING w/ (2) 10" LAG SCREWS @ 12" O.C. STAGGERED. SEE SECTION R703.02 OF THE 2018 NRC FOR ADDITIONAL BRICK SUPPORT INFORMATION.
- PRECAST REINFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

NOTE:  
 \* BCI 4500A-18 JOISTS MAY BE INSTALLED IN LIEU OF TJI 110 JOISTS AT THE DEPTH AND SPACING INDICATED ON THE PLAN  
 \* BCI 6000A-18 JOISTS MAY BE INSTALLED IN LIEU OF TJI 230 JOISTS AT THE DEPTH AND SPACING INDICATED ON THE PLAN

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

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 N.C. LICENSE NO. C1133

ROOSEVELT  
H&H HOMES, INC.

DATE: AUGUST 21, 2024  
 SCALE: 1/4" = 1'-0"  
 DRAWN BY: H&H HOMES  
 ENGINEERED BY: WFR

SEAL  
 33736  
 8/27/2020

SHEET: 9 OF 12  
 S-2a  
 SECOND FLOOR  
 FRAMING PLAN

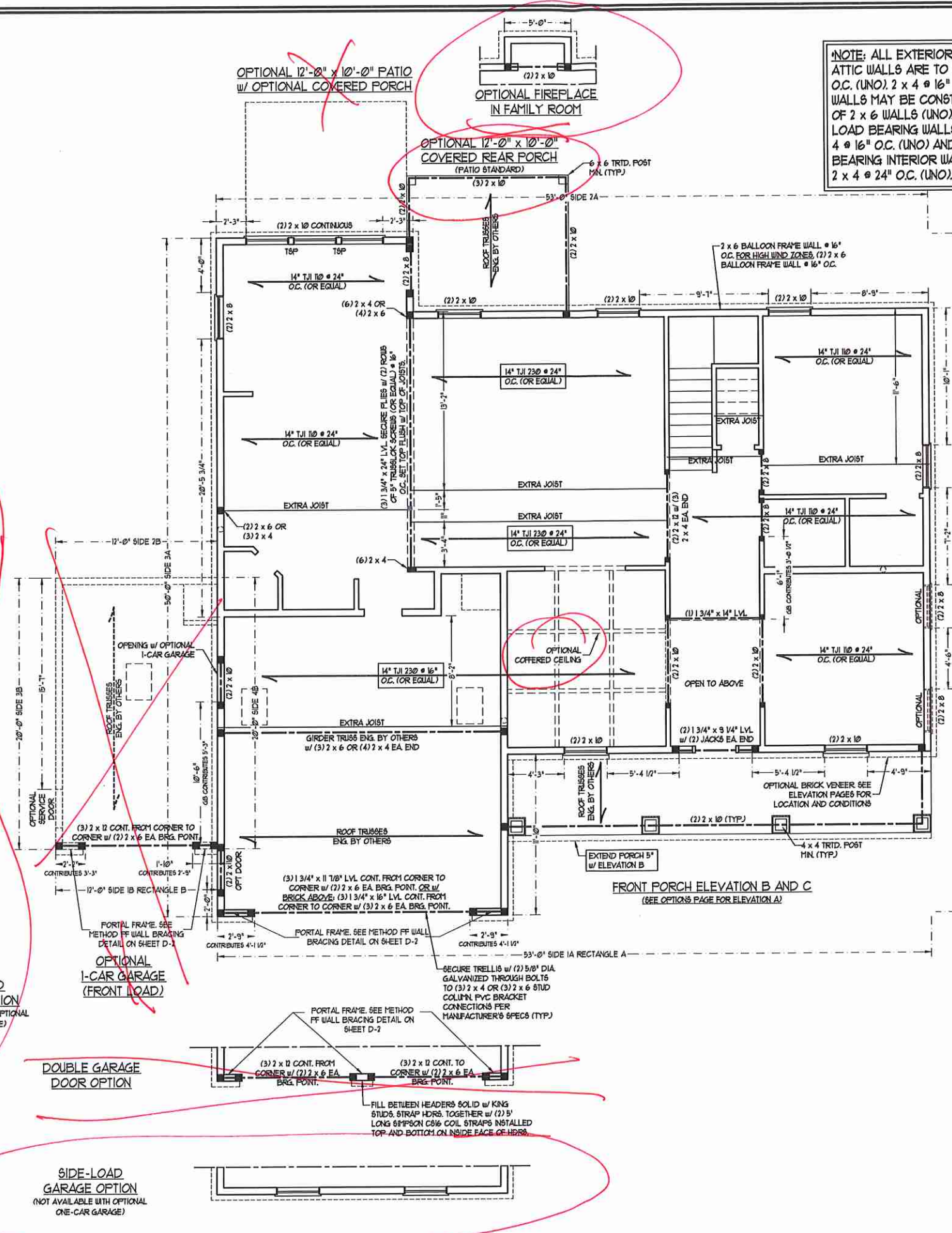
INSTALL 2 x 12 BLOCKING  
BETWEEN STUDS FROM END OF  
HEADER TO GARAGE CORNER.

SIDE-LOAD  
GARAGE OPTION  
(NOT AVAILABLE WITH OPTIONAL  
ONE-CAR GARAGE)

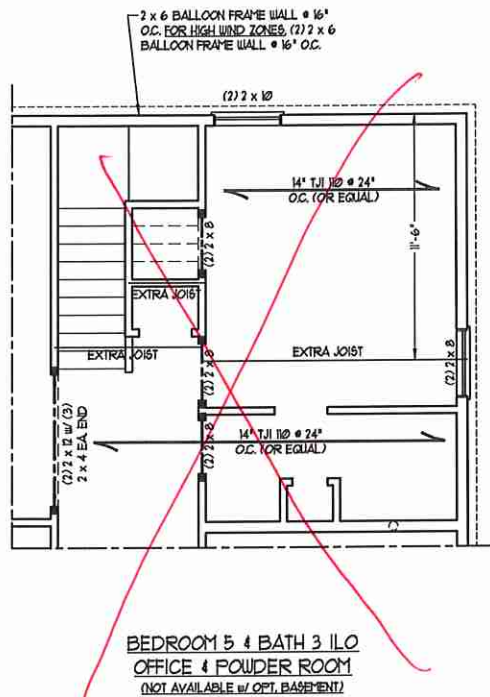
OPTIONAL  
I-CAR GARAGE  
(FRONT LOAD)

DOUBLE GARAGE  
DOOR OPTION

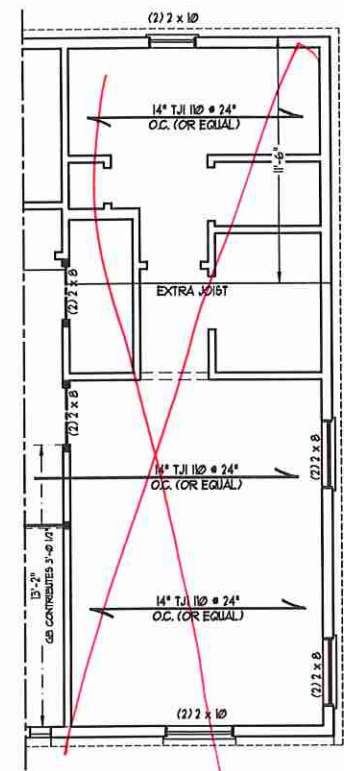
SIDE-LOAD  
GARAGE OPTION  
(NOT AVAILABLE WITH OPTIONAL  
ONE-CAR GARAGE)



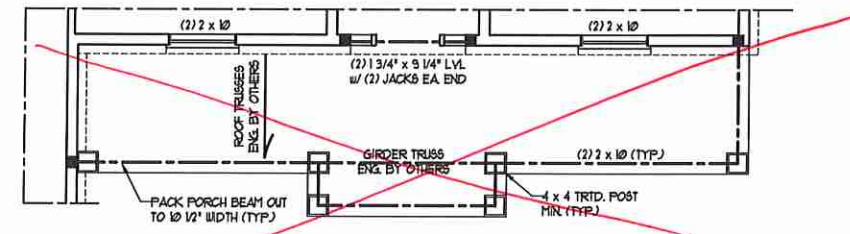




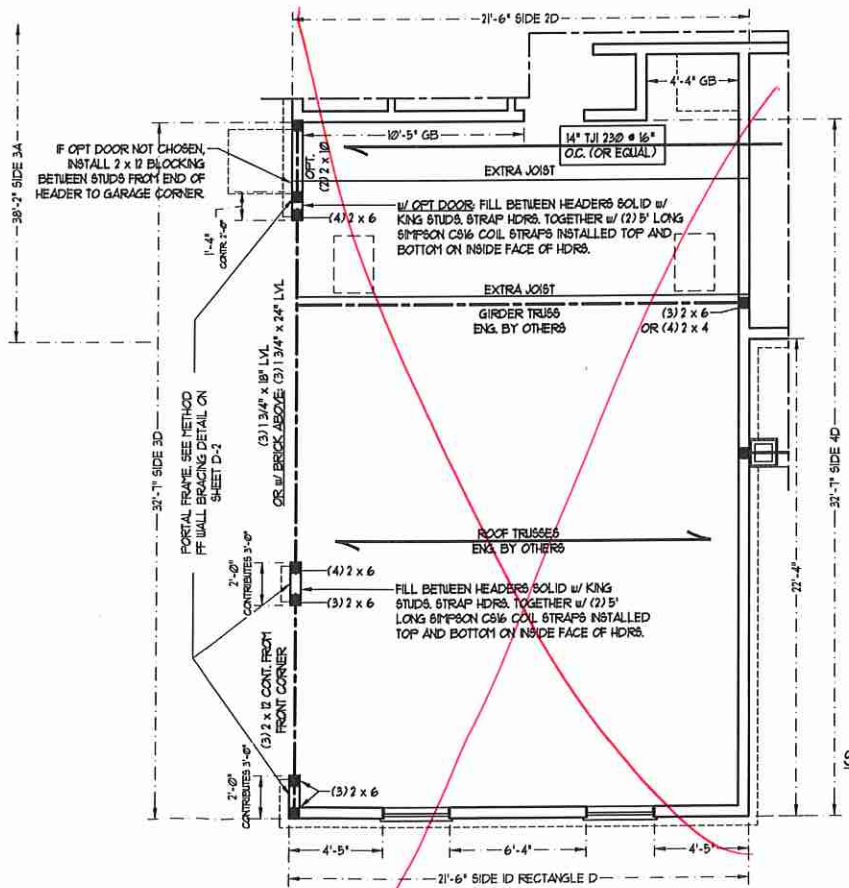
BEDROOM 5 4 BATH 3 ILO  
OFFICE 4 POWDER ROOM  
(NOT AVAILABLE w/ OPT. BASEMENT)



OPTIONAL GUEST SUITE ILO  
LIVING ROOM 4 OFFICE



FRONT PORCH ELEVATION A



OPTIONAL 3-CAR  
SIDE ENTRY GARAGE

**BRACED WALL DESIGN**

**RECTANGLE D**

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



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N.C. LICENSE NO.: C1733

ROOSEVELT  
H&H HOMES, INC.

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

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

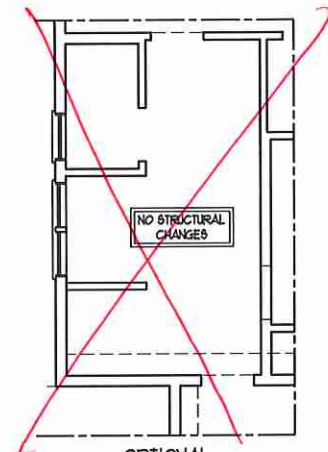


**BRACED WALL DESIGN NOTES:**

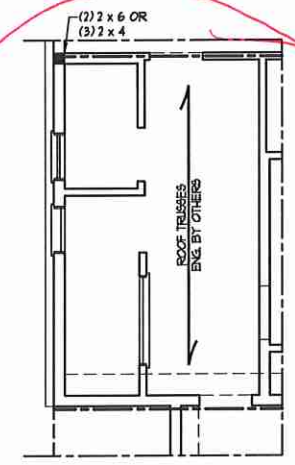
- BRACED WALL DESIGN PER SECTION R6-02.10 OF THE NRC 2018 EDITION.
- C9-WSF REFERS TO "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL 1/16" OSB ON ALL EXTERIOR WALLS ATTACHED w/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.
- GB REFERS TO "GYPSUM BOARD" 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 PLATES.
- 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 NRC 2018 EDITION.
- SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

**NOTE:**

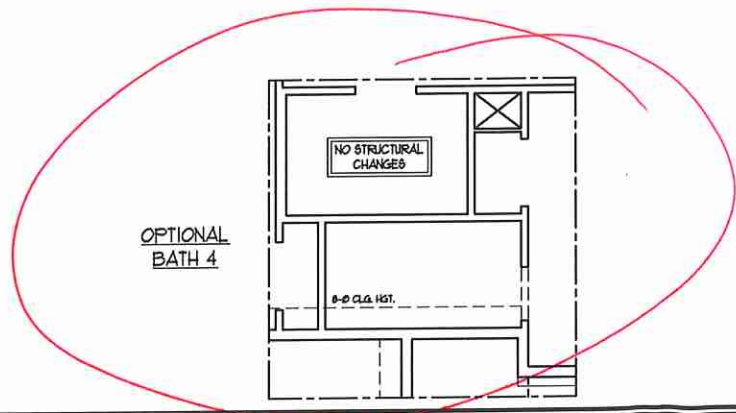
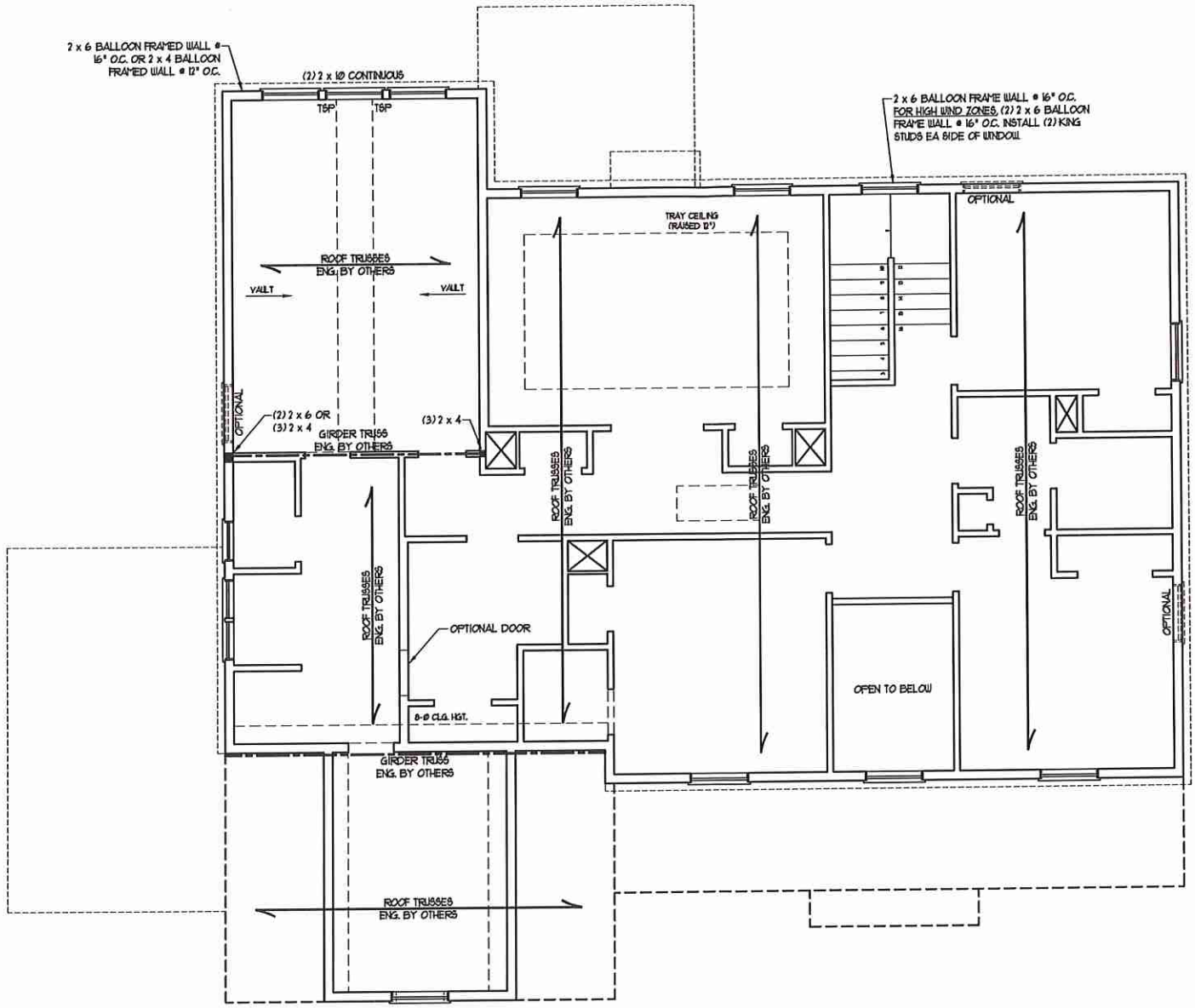
- PER SECTION R6-02.10.3.2 OF THE 2018 NRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS REQUIRED.
- SHEATH ALL EXTERIOR WALLS WITH 1/16" OSB SHEATHING ATTACHED WITH 8d NAILS AT 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.



OPTIONAL OWNER'S BATH 2



OPTIONAL OWNER'S BATH 3



OPTIONAL BATH 4

**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 LLY
8 AND GREATER	L 6 x 4 x 5/16 LLY

**BRICK SUPPORT NOTES:**

- LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO). SEE ARCH. DRGS. FOR SIZE AND LOCATION OF OPENINGS.
- (LLV) = LONG LEG VERTICAL
- LENGTH = CLEAR OPENING
- SPACED 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 @ 8" 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 R103.8.2) OF THE 2018 NRC 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 6FF 12 (UNO).
- ALL TREATED LUMBER TO BE 6YP 12 (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 R6-02.15 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 1/16" 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 SILL 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.

TSP - TRIPLE STUD POCKET

**TABLE R6-02.15**  
MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER 6 PAN (FEET)	MAXIMUM STUD SPACING (INCHES) (PER TABLE R6-02.3(B))	
	16	24
UP TO 3'	1	1
4'	2	1
8'	3	2
12'	5	3
16'	6	4



**J.S. THOMPSON ENGINEERING, INC.**  
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N.C. LICENSE NO.: C1133

**ROOSEVELT H&H HOMES, INC.**

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

SHEET 11 OF 12  
**S-3**  
ATTIC FLOOR FRAMING PLAN







MONOLITHIC SLAB DETAILS

**DETAIL 1**

TYPICAL SLAB DETAIL

**DETAIL 2**

BRICK VENEER DETAIL

**DETAIL 3**

GARAGE CURB DETAIL

**DETAIL 4**

GARAGE CURB BRICK LEDGE DETAIL

**DETAIL 5**

THICKENED SLAB DETAIL

**DETAIL 6**

STEP IN GARAGE DETAIL

**DETAIL 1**

SLAB AT GARAGE DOOR DETAIL

STEMWALL DETAILS

**DETAIL 1**

TYPICAL STEM WALL DETAIL (w/ OPTIONAL WATERTABLE)

**OPTIONAL DETAIL 1**

OPTIONAL STEM WALL DETAIL

**DETAIL 2**

TYPICAL STEM WALL FND. w/ BRICK DETAIL

**DETAIL 3**

TYPICAL STEM WALL FND. DETAIL w/ CURB @ GARAGE

**DETAIL 3**

OPTIONAL STEM WALL FND. DETAIL w/ CURB @ GARAGE

**DETAIL 4**

TYPICAL STEM WALL FND. DETAIL w/ BRICK AND CURB @ GARAGE

**DETAIL 8**

THREADED ROD THROUGH BRICK MASONRY

**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	UNGRADED	GRAUT SOLID	UNGRADED	UNGRADED
3	UNGRADED	GRAUT SOLID	UNGRADED	UNGRADED
4	GRAUT SOLID	GRAUT SOLID w/ #4 REBAR @ 48" O.C.	GRAUT SOLID	GRAUT SOLID w/ #4 REBAR @ 64" O.C.
5	GRAUT SOLID w/ #4 REBAR @ 36" O.C.	NOT APPLICABLE	GRAUT SOLID w/ #4 REBAR @ 36" O.C.	GRAUT SOLID w/ #4 REBAR @ 64" O.C.
6	GRAUT SOLID w/ #4 REBAR @ 24" O.C.	NOT APPLICABLE	GRAUT SOLID w/ #4 REBAR @ 24" O.C.	GRAUT SOLID w/ #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 #51 / #51 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 R502.2.1 AND R502.2.2 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 GRAUT. USE OF 'LOW LIFT GRAUTING' METHOD REQUIRED WHEN FILLING WALLS WITH GRAUT 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'	15" INTO MASONRY 1" INTO CONCRETE

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 N.C. LICENSE NO.: CT131

120 MPH - 130 MPH ULTIMATE DESIGN WIND SPEED  
 FOUNDATION DETAILS

DATE: NOVEMBER 14, 2018  
 SCALE: NTS  
 DRAWN BY: JST  
 ENGINEERED BY: JES

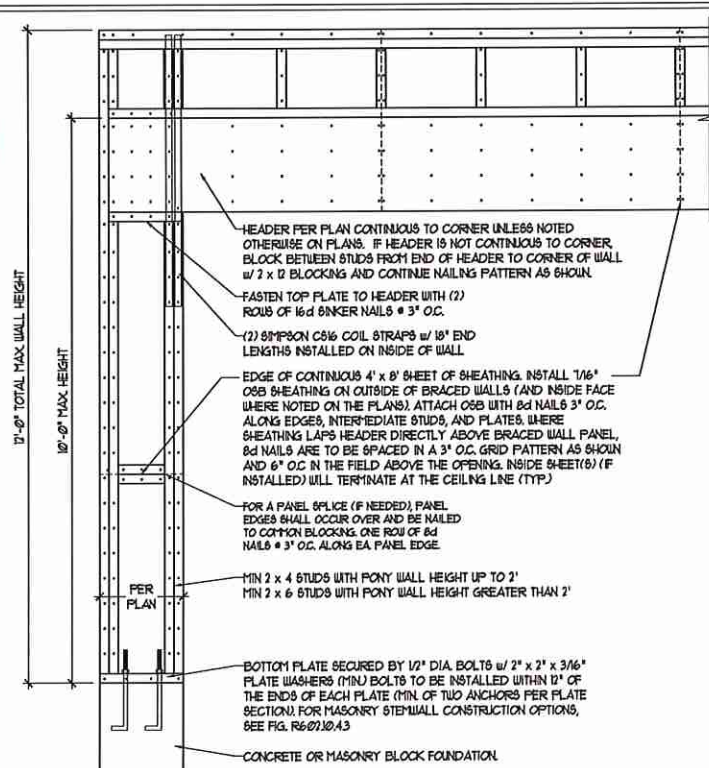


D-1  
 FOUNDATION DETAILS

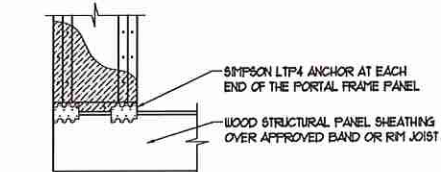


**GENERAL WALL BRACING NOTES:**

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 CS-105P IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE.
5. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED. WHEN NOT USING METHOD 'GB', GYPSUM TO BE FASTENED PER TABLE R102.3.5, METHOD GB TO BE FASTENED PER TABLE R602.3(1).
6. CS-105P REFERS TO THE 'CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS' WALL BRACING METHOD. 1/16" OSB SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED W/ 6d COMMON NAILS OR 8d (2 1/2" LONG x Ø1/8" 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 6" 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 CS-105P CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES 5/8 ITS ACTUAL LENGTH, AND METHOD FF CONTRIBUTES 1/5 TIMES ITS ACTUAL LENGTH.

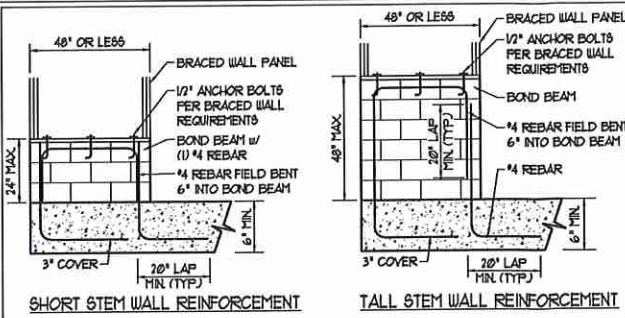


OVER CONCRETE OR MASONRY BLOCK FOUNDATION



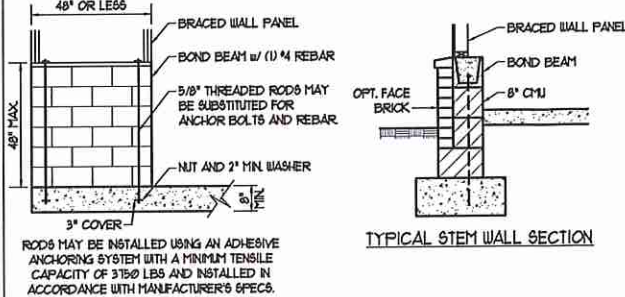
OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION  
 \* APPLICABLE W/ GREATER THAN 12" KNEE WALL HEIGHTS IN CRAWL SPACE AND ABOVE FRAMED BASEMENT WALLS \*

METHOD FF-PORTAL FRAME DETAIL ①



SHORT STEM WALL REINFORCEMENT

TALL STEM WALL REINFORCEMENT

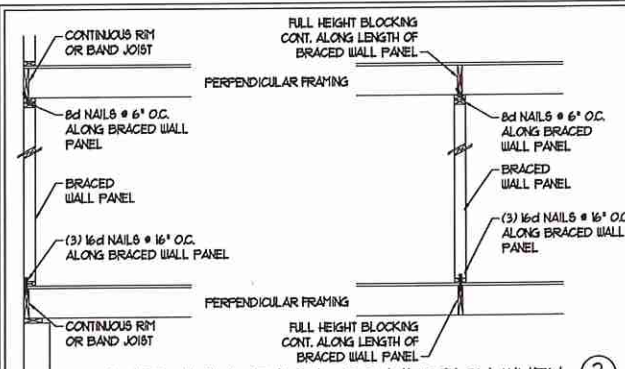


TYPICAL STEM WALL SECTION

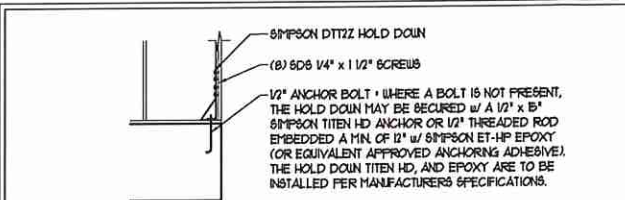
OPTIONAL STEM WALL REINFORCEMENT

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

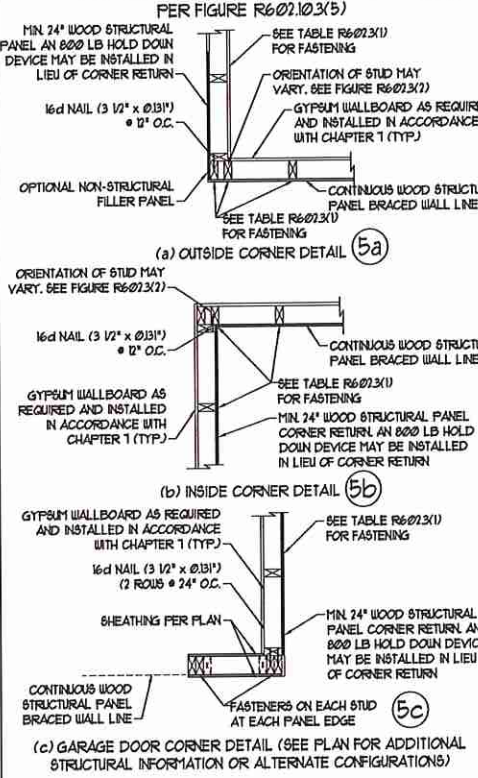


BRACED WALL PANEL CONNECTION WHEN PERPENDICULAR TO FLOOR/CEILING FRAMING ③  
 PER FIGURE R602.10.4.4(1)

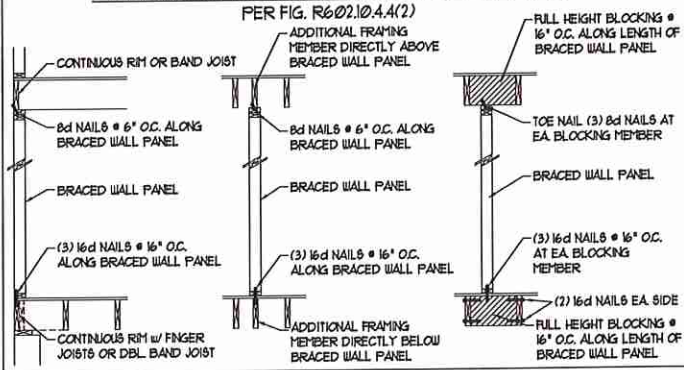


HOLD DOWN DETAIL FOR MASONRY FOUNDATION OR MONOLITHIC SLAB ④  
 \* APPLICABLE ONLY WHERE SPECIFIED ON PLAN \*

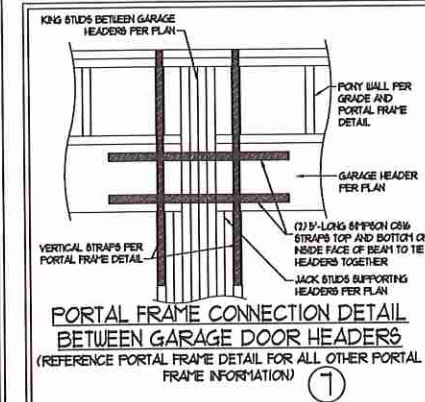
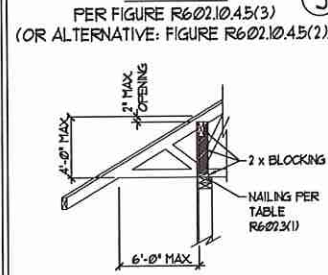
**TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING ⑤**



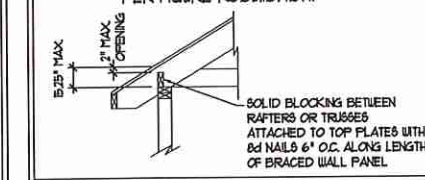
**BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING ⑥**



**BRACED WALL PANEL CONNECTION TO PERPENDICULAR ROOF TRUSSES ⑨**



**BRACED WALL PANEL CONNECTION TO PERPENDICULAR RAFTERS ⑧**



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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

D-2  
 BRACED WALL NOTES AND DETAILS AND PF DETAIL



**GENERAL NOTES**

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO 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 (R301.4 - R301.7)
- | DESIGN CRITERIA:                 | LIVE LOAD (PSF)                                   | DEAD LOAD (PSF) | DEFLECTION (IN)                   |
|----------------------------------|---|-----------------|-----------------------------------|
| ATTIC WITH LIMITED STORAGE       | 20  | 10              | L/140 (L/360 w/ BRITTLE FINISHES) |
| ATTIC WITHOUT STORAGE            | 10  | 10              | L/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 <sub>g</sub> | 20 (PSF)  |                 |                                   |
- I-JOIST SYSTEMS DESIGNED WITH D PSF DEAD LOAD AND DEFLECTION (IN) OF L/400
  - FLOOR TRUSS SYSTEMS DESIGNED WITH B PSF DEAD LOAD
- FOR 15 AND 20 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.1.6 OF THE NRC, 2018 EDITION. FOR 30 MPH, 40 MPH, AND 50 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 450.4 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 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 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 A605 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A105. 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 5/1115 402. MORTAR SHALL CONFORM TO ASTM C210.
- 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 N 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 5/1115 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).

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**FRAMING NOTES**

- ALL FRAMING LUMBER SHALL BE 2" OFF MINIMUM (F<sub>b</sub> = 875 PSI, F<sub>v</sub> = 375 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE 2" SYP MINIMUM (F<sub>b</sub> = 575 PSI, F<sub>v</sub> = 175 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO).
- LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F<sub>b</sub> = 2600 PSI, F<sub>v</sub> = 285 PSI, E = 1300000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F<sub>b</sub> = 2375 PSI, F<sub>v</sub> = 310 PSI, E = 1500000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F<sub>c</sub> = 2500 PSI, E = 1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F<sub>c</sub> = 2500 PSI, E = 2000000 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 R602.1(5) 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. FLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R103.2(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 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 L102 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON C96 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TIGHT STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

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 N.C. LICENSE NO. C1133

120 MPH - 130 MPH ULTIMATE DESIGN WIND SPEED  
 STANDARD STRUCTURAL NOTES

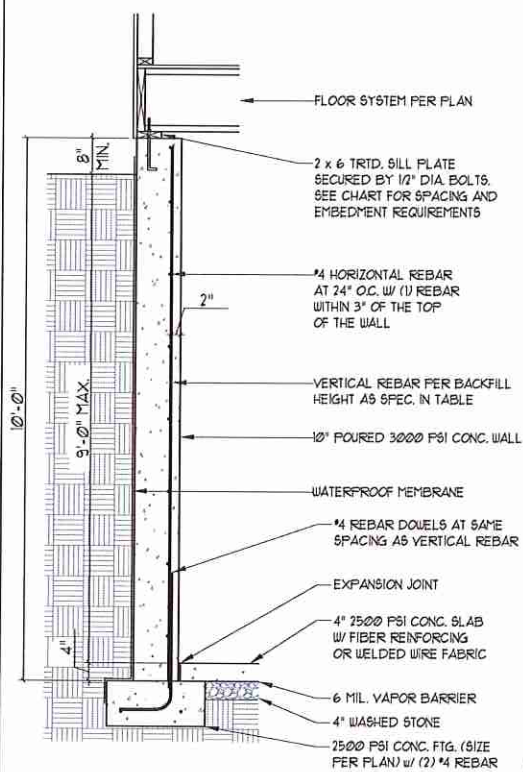
DATE: NOVEMBER 14, 2018  
 SCALE: 1/4" = 1'-0"  
 DRAWN BY: JES  
 ENGINEERED BY: JST



S0  
 STRUCTURAL  
 NOTES

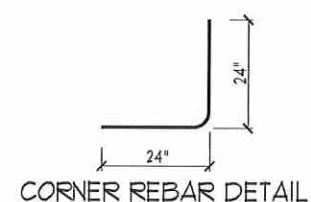


### 10" POURED BASEMENT WALL



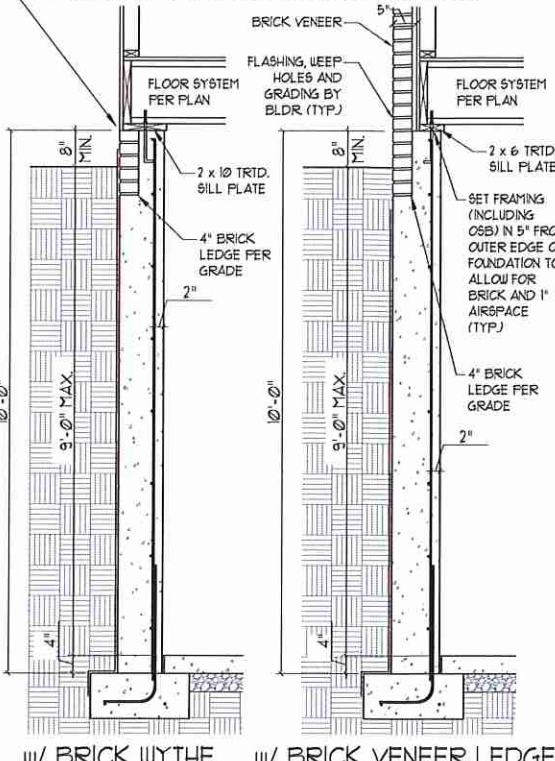
BACKFILL HEIGHT (FT)	VERTICAL REBAR
≤ 5	#4 @ 48" O.C.
6	#4 @ 32" O.C.
7	#4 @ 24" O.C. OR #5 @ 36" O.C. OR #6 @ 56" O.C.
8	#4 @ 20" O.C. OR #5 @ 32" O.C. OR #6 @ 48" O.C.
9	#4 @ 16" O.C. OR #5 @ 24" O.C. OR #6 @ 40" O.C.

BASEMENT WALL REINFORCEMENT TABLE



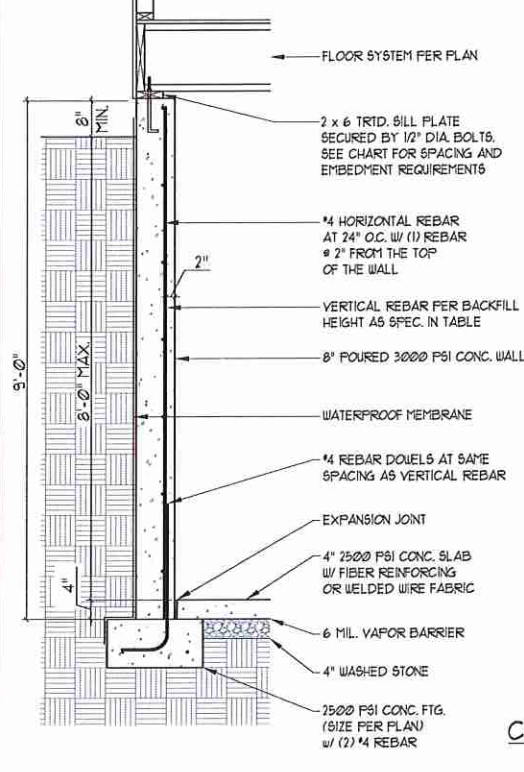
CORNER REBAR DETAIL

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 MANUFACTURERS SPECS.



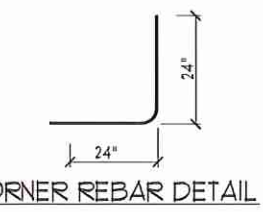
w/ BRICK WYTHE w/ BRICK VENEER LEDGE

### 8" POURED BASEMENT WALL

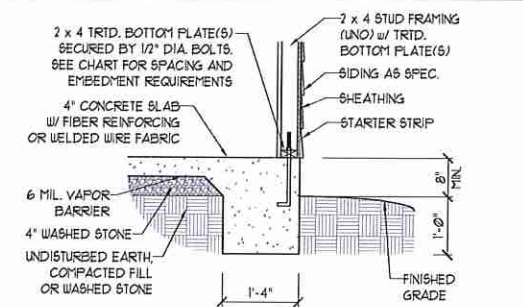


BACKFILL HEIGHT (FT)	VERTICAL REBAR
≤ 5	#4 @ 48" O.C.
6	#4 @ 24" O.C. OR #5 @ 36" O.C.
7	#4 @ 16" O.C. OR #5 @ 24" O.C. OR
8	#4 @ 12" O.C. OR #5 @ 18" O.C. OR #6 @ 28" O.C. OR

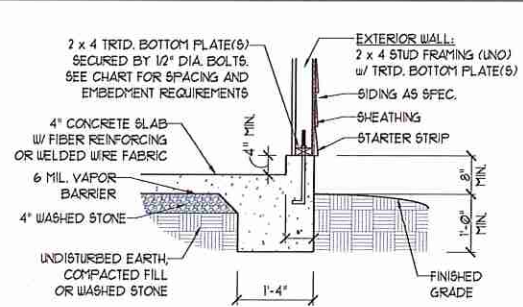
BASEMENT WALL REINFORCEMENT TABLE



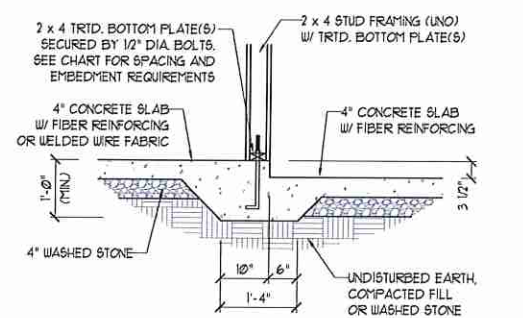
CORNER REBAR DETAIL



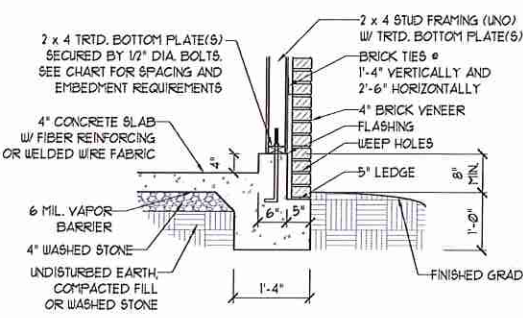
TYPICAL SLAB



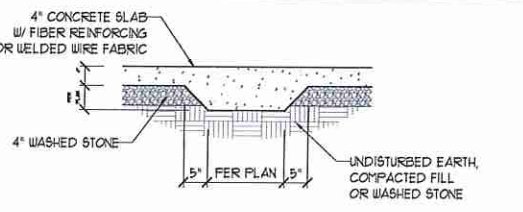
GARAGE CURB



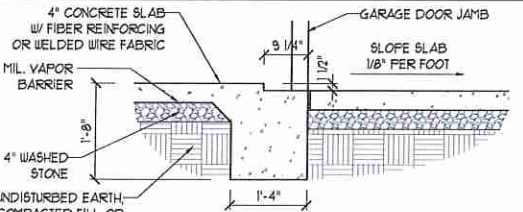
STEP IN GARAGE



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	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.

### 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 R403.1.9 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 DOELS 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.**  
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N.C. LICENSE NO.: C-1733

POURED WALL BASEMENT FOUNDATION DETAILS

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

FOUNDATION DETAILS

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