

# INVENTORY MARKED

## ACX000197

# KENZIE H&H HOMES - GARAGE RIGHT

### PLAN REVISIONS

07-10-19	COMPLETED CONSTRUCTION DOCUMENTS INCLUDING CLIENT REVIEW COMMENTS
07-15-19	CLIENT BACK END COMMENTS
07-24-19	MIRROR PLAN TO CREATE LEFT HAND VERSION
09-26-20	UPDATED ROOM NAMING PER H&H STANDARDS ADDED 2/16 WALL FLOOR PLANS + ELECTRICAL PLANS CHANGED ELEVATION 'A' + 'C' TO 'A-1' + 'C-1' ADDED ELEVATIONS 'A-2' + 'C-2' CHANGED ELEVATION 'B' TO ELEV. 'B-2' AND ADDED NEW ELEV. 'B-1' BROKE OUT OPTIONS FROM THE FLOOR PLANS AND MADE A SEPARATE PAGE FOR OPTIONS

ELEVATION "A"	
MAIN FLOOR	804 SF.
UPPER FLOOR	1154 SF.
TOTAL LIVING	1958 SF.
GARAGE 480 SF.	
FRONT PORCH	83 SF.
PATIO	120 SF.
TOTAL SQ. FT.	2640 SF.
OPT. COV. PORCH	120 SF.
OPT. EXT. PORCH	160 SF.
OPT. 1 CAR GARAGE	240 SF.

ELEVATION "B"	
MAIN FLOOR	804 SF.
UPPER FLOOR	1170 SF.
TOTAL LIVING	1974 SF.
GARAGE 480 SF.	
FRONT PORCH	83 SF.
PATIO	120 SF.
TOTAL SQ. FT.	2657 SF.
OPT. COV. PORCH	120 SF.
OPT. EXT. PORCH	160 SF.
OPT. 1 CAR GARAGE	240 SF.

ELEVATION "C"	
MAIN FLOOR	804 SF.
UPPER FLOOR	1180 SF.
TOTAL LIVING	1984 SF.
GARAGE 480 SF.	
FRONT PORCH	81 SF.
PATIO	120 SF.
TOTAL SQ. FT.	2665 SF.
OPT. COV. PORCH	120 SF.
OPT. EXT. PORCH	160 SF.
OPT. 1 CAR GARAGE	240 SF.

ISSUANCE OF PLANS FROM THIS DRAFTER'S OFFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVIEW AND VERIFY ALL NOTES, DIMENSIONS AND ADHERENCE TO APPLICABLE BUILDING CODES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.  
ANY DISCREPANCY OF ERROR IN NOTES, DIMENSIONS OR ADHERENCE TO APPLICABLE BUILDING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE DRAFTER'S OFFICE FOR CORRECTION BEFORE COMMENCEMENT OF ANY CONSTRUCTION.  
ANY REVISIONS OR CHANGES NOT RELATED TO THE CORRECTION OF ERRORS THAT ARE MADE AFTER THE FINAL PLANS HAVE BEEN COMPLETED SHALL BE SUBJECT TO ADDITIONAL FEES.  
IF ANY MODIFICATIONS ARE MADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE DRAFTER'S OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.



JOB NUMBER	B-1918071
CDT FILE	1918071
DESIGN	07-10-19
REVISED	07-15-19
REVISED	07-24-19
REVISED	09-26-20



1958

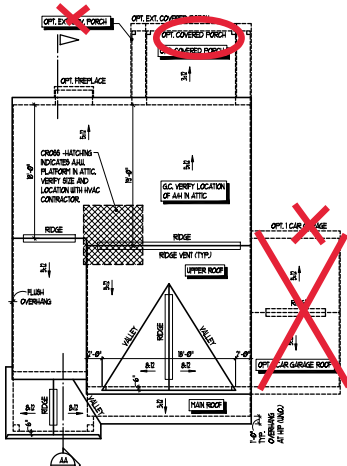
TITLE	REVISION LOG

SHEET  
CS

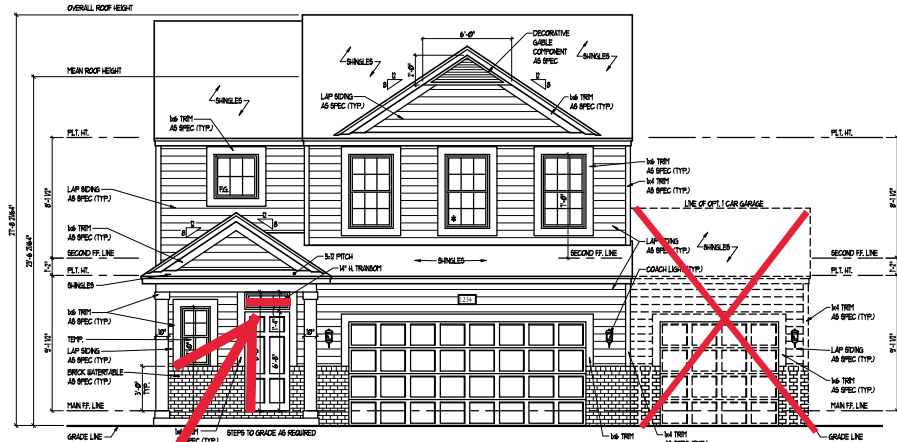
ISSUANCE OF PLANS FROM THIS DRAFTERS OFFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVIEW AND VERIFY ALL NOTES, DIMENSIONS, AND ADHERENCE TO APPLICABLE BUILDING CODES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.  
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ROOF VENT CALCULATIONS				
	MAIN ROOF	UPPER ROOF	OPT. GARAGE ROOF	OPT. EXT. COVERED PORCH
ATTIC AREA	170 SQ. FT.	126 SQ. FT.	240 SQ. FT.	540 SQ. FT.
NET FREE VENT. AREA REQUIRED (AS REQUIRED)	42 SQ. IN.	374 SQ. IN.	15 SQ. IN.	58 SQ. IN.
NET FREE VENT. AREA PROVIDED	41 SQ. IN.	281 SQ. IN.	58 SQ. IN.	38 SQ. IN.
NET FREE VENT. AREA REQUIRED (NEAR ROOF)	41 SQ. IN.	281 SQ. IN.	58 SQ. IN.	38 SQ. IN.

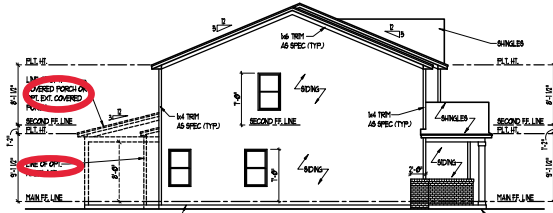
VERIFY TOTAL ROOF AREA REQUIRED WITH MANUFACTURERS SPECIFICATIONS OF NET FREE AREA PER VENT



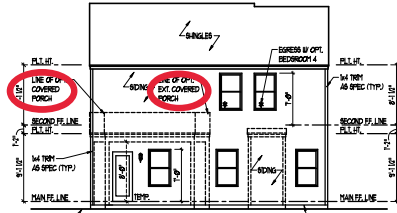
**ROOF PLAN**  
SCALE 1/4" = 1'-0"



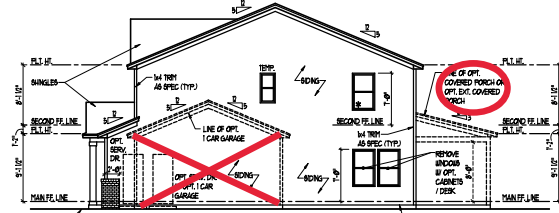
**FRONT ELEVATION**  
SCALE 1/4" = 1'-0"  
**NO GRIDS**



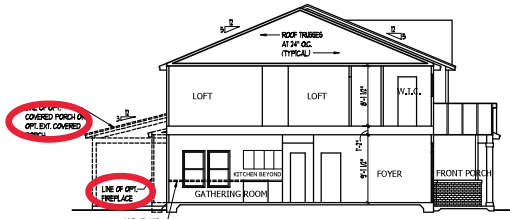
**LEFT ELEVATION**  
SCALE 1/4" = 1'-0"



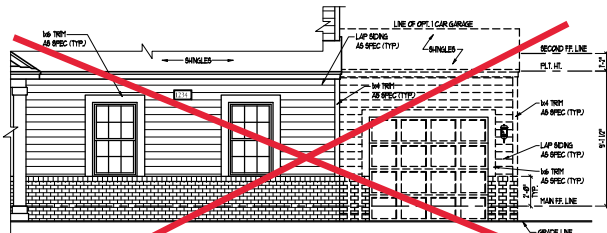
**REAR ELEVATION**  
SCALE 1/4" = 1'-0"



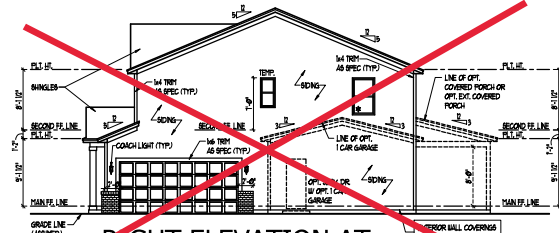
**RIGHT ELEVATION**  
SCALE 1/4" = 1'-0"



**SECTION AA**  
SCALE 1/4" = 1'-0"



**FRONT ELEVATION AT OPT. SIDE LOAD GARAGE**  
SCALE 1/4" = 1'-0"



**RIGHT ELEVATION AT OPT. SIDE LOAD GARAGE**  
SCALE 1/4" = 1'-0"

**ELEVATION "A-2"**



JOB NUMBER: B-1918071  
 JOB FILE: KENZIE-19  
 DESIGNED: 07-10-19  
 REVISED: 07-22-19  
 08-26-19  
 09-26-20



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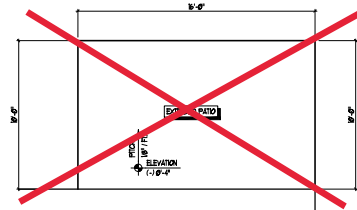
KENZIE  
 H&H HOMES

1958

TITLE  
 ELEVATIONS, ROOF PLAN  
 BUILDING SECTION  
 DETAILS

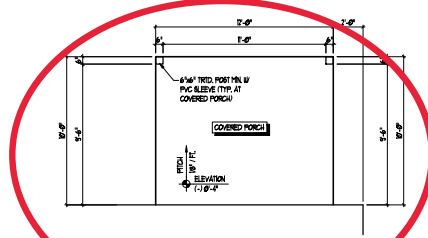
SHEET  
**A1.1**





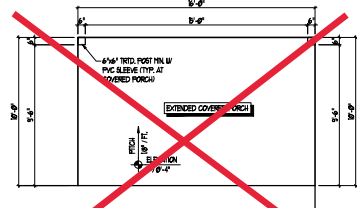
**OPT. EXTENDED PATIO**

SCALE 1/4" = 1'-0"



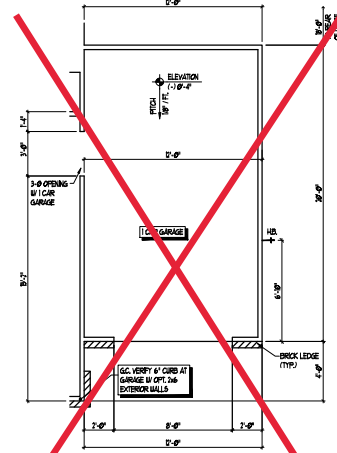
**OPT. COVERED PORCH**

SCALE 1/4" = 1'-0"



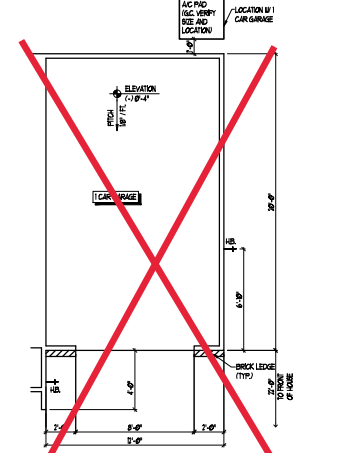
**OPT. EXT. COVERED PORCH**

SCALE 1/4" = 1'-0"



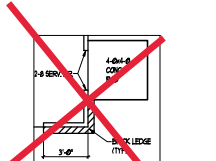
**OPT. 1 CAR GARAGE (FWD)**

SCALE 1/4" = 1'-0"



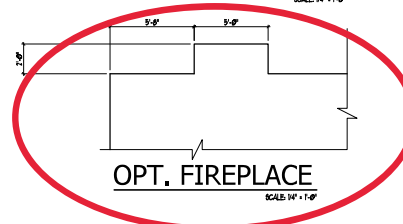
**OPT. 1 CAR GARAGE (REAR)**

SCALE 1/4" = 1'-0"



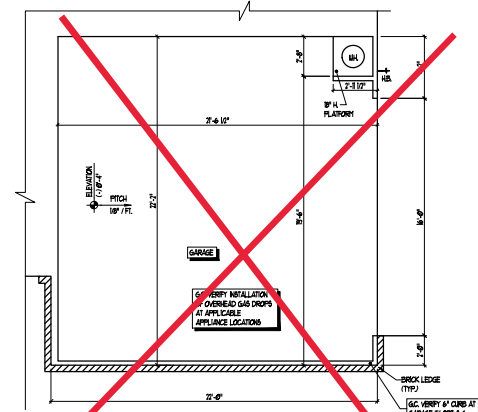
**OPT. SERVICE DOOR**

SCALE 1/4" = 1'-0"



**OPT. FIREPLACE**

SCALE 1/4" = 1'-0"



**OPT. SIDE LOAD GARAGE**

SCALE 1/4" = 1'-0"

REFER TO STANDARD PLAN FOR RECONFIGURATION NOT SHOWN

**SLAB INTERFACE PLAN OPTIONS**

SCALE 1/4" = 1'-0"



JOB NUMBER	B-1918871
DATE FILED	PERIOD: 07-16-19
DESIGNED	07-22-19
REVISED	07-22-19
	08-26-20



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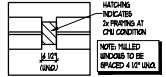
**KENZIE H&H HOMES**

1958

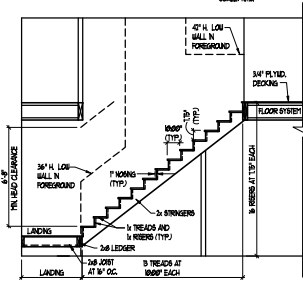
TITLE  
 SLAB INTERFACE PLAN

SHEET  
**A2.0**



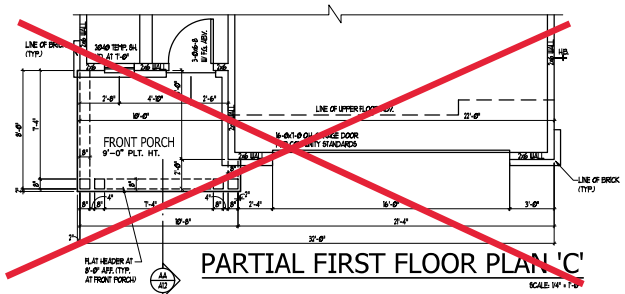


TYP. MULL DETAIL  
SCALE NTA

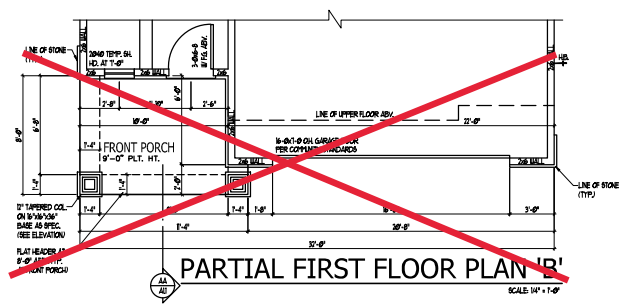


STAIR SECTION  
SCALE 1/4" = 1'-0"

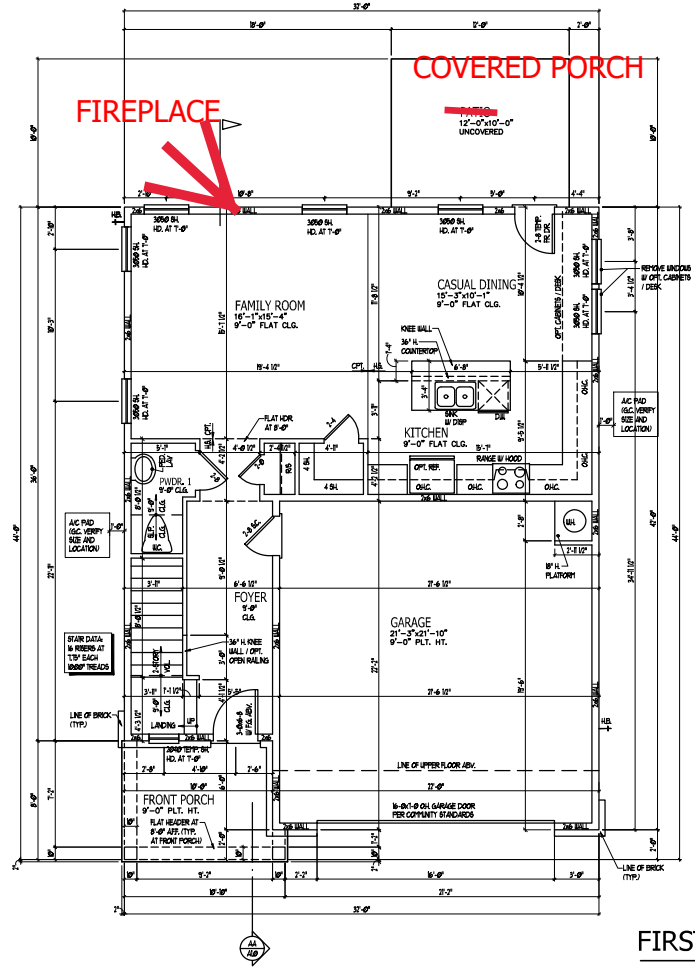
**STAIR NOTES:**  
**BALUS:**  
 BALUSTERS SHALL BE SPACED SO THAT A 4" SPHERE CANNOT PASS THROUGH.  
 THE TRIANGULAR OPENINGS FORMED BY THE RISER, TREAD AND BOTTOM RAIL OF A GUARD AT THE OPEN SIDE OF A STAIRWAY ARE PERMITTED TO BE A RECTANGULAR SIZE THAT A SPHERE 4 INCHES CANNOT PASS THROUGH.  
**OPENINGS FOR REQUIRED GUARDS:**  
 OPENINGS FOR REQUIRED GUARDS ON THE SIDES OF STAIR TREADS SHALL NOT ALLOW A SPHERE 4 INCHES TO PASS THROUGH.  
**HANDRAILS:**  
 HANDRAILS FOR STAIRWAYS SHALL BE CONTINUOUS FROM THE WALL LEASH OF THE FLIGHT FROM A POINT DIRECTLY ABOVE THE TOP RISER OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOBBY RISER. HANDRAIL ENDS SHALL BE RETURNED OR SHALL TERMINATE IN WALL FLOOR OR SAFETY TERMINAL HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1-1/2 INCH BETWEEN THE WALL AND HANDRAIL.  
 CONTINUOUS GRASPABLE HANDRAIL MUST BE TYPE ONE OR TYPE TWO CRITERIA



PARTIAL FIRST FLOOR PLAN 'C'  
SCALE 1/4" = 1'-0"



PARTIAL FIRST FLOOR PLAN 'B'  
SCALE 1/4" = 1'-0"



FIRST FLOOR PLAN (2x6 WALL)  
SCALE 1/4" = 1'-0"



JOB NUMBER	B-1818871
DATE FILED	10/28/18
DESIGNED	07/16/19
REVISION	07/22/19
	07/22/19
	07-26-20

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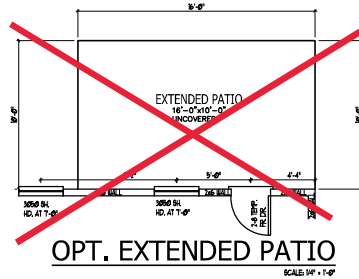
DRAWINGS ON THIS SHEET ARE ONE HALF THE SCALE NOTED

KENZIE  
H&H HOMES

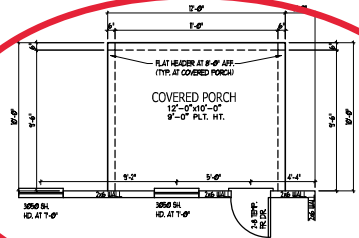
1958

TITLE  
FIRST FLOOR PLAN

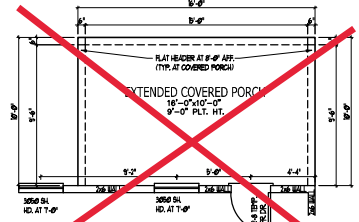
SHEET  
A3.0



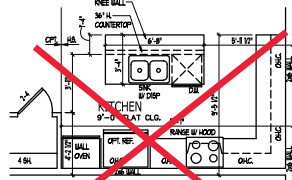
**OPT. EXTENDED PATIO**



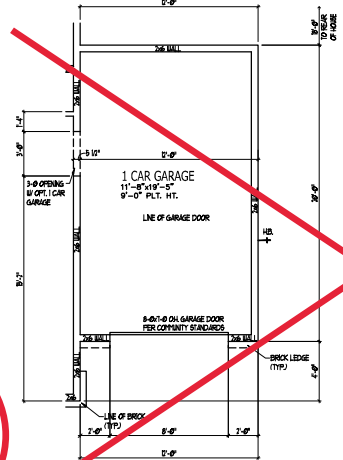
**OPT. COVERED PORCH**



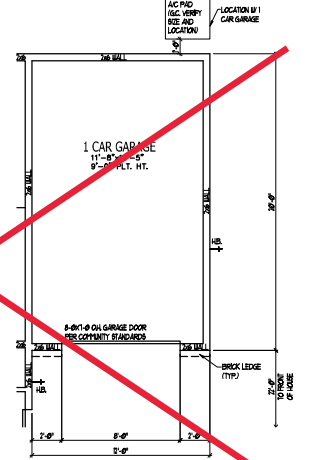
**OPT. EXT. COVERED PORCH**



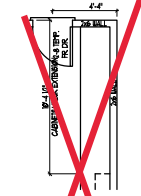
**OPT. GOURMET KITCHEN**



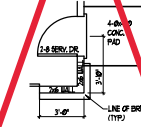
**OPT. 1 CAR GARAGE (FWD)**



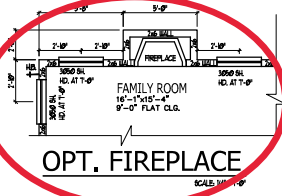
**OPT. 1 CAR GARAGE (REAR)**



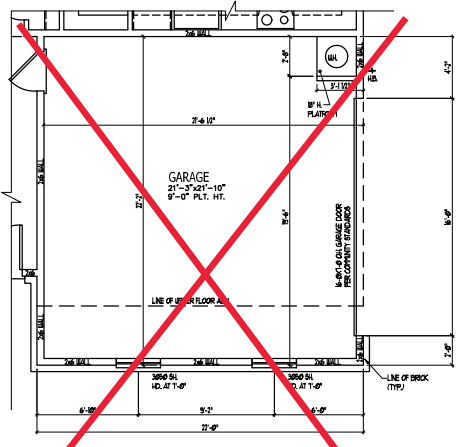
**OPT. CABINETS**



**OPT. SERVICE DOOR**



**OPT. FIREPLACE**



**OPT. SIDE LOAD GARAGE**

**FIRST FLOOR PLAN OPTIONS (2x6 WALL)**



PRO NUMBER	B-1918871
DATE FILE	06-08-19
DESIGN	07-10-19
REVISED	07-22-19
	08-28-19
	09-26-20



FOR REGULATORY SUBMITTALS:  
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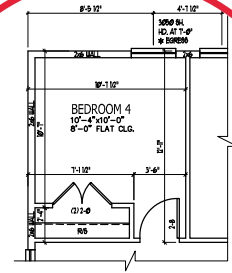
**KENZIE H&H HOMES**

1958

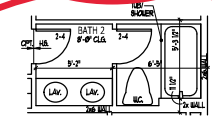
TITLE  
 FIRST FLOOR PLAN OPTS

SHEET  
**A3.1**





**OPT. BEDROOM 4 I.L.O. LOFT**  
SCALE: 1/4" = 1'-0"



**OPT. WALL IN BATH 2**  
SCALE: 1/4" = 1'-0"



**OPT. LAUNDRY TUB**  
SCALE: 1/4" = 1'-0"



JOB NUMBER	B-1918871
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DESIGNED	07-10-19
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TITLE  
SECOND FLOOR PLAN OPTS

SHEET  
**A3.3**

**ELECTRICAL KEY**

- ⊕ DUPLEX CONNORCE OUTLET
- ⊕ DUPLEX GULLET ABOVE COUNTER
- ⊕ WEATHERPROOF DUPLEX OUTLET
- ⊕ GROUND FAULT INTERRUPTER DUPLEX OUTLET
- ⊕ HALF-SWITCHED DUPLEX OUTLET
- ⊕ SPECIAL PURPOSE OUTLET
- ⊕ DUPLEX OUTLET IN FLOOR
- ⊕ 240 VOLT GULLET
- ⊕ WALL SWITCH
- ⊕ THREE-WAY SWITCH
- ⊕ FOUR-WAY SWITCH
- ⊕ DIMMER SWITCH
- ⊕ CEILING MOUNTED INCANDESCENT LIGHT FIXTURE
- ⊕ WALL MOUNTED INCANDESCENT LIGHT FIXTURE
- ⊕ RECESSED INCANDESCENT LIGHT FIXTURE
- ⊕ LIGHT FIXTURE WITH FULL CHAIN
- ⊕ TRACK LIGHT
- ⊕ FLUORESCENT LIGHT FIXTURE
- ⊕ EXHAUST FAN
- ⊕ EXHAUST FAN LIGHT OPERATOR
- ⊕ ELECTRIC DOOR OPERATOR (OPTIONAL)
- ⊕ CUPES (OPTIONAL)
- ⊕ FURNITURE SWITCH (OPTIONAL)
- ⊕ CARBON MONOXIDE DETECTOR
- ⊕ SMOKE DETECTOR
- ⊕ SMOKE / CARBON MONOXIDE COMBO DETECTOR
- ⊕ TELEPHONE (OPTIONAL)
- ⊕ TELEVISION (OPTIONAL)
- ⊕ THERMISTAT
- ⊕ ELECTRIC METER
- ⊕ DISCONNECT SWITCH
- ⊕ SPEAKER (OPTIONAL)
- ⊕ HOUSH-NR FOR OPT. CEILING FAN
- ⊕ CEILING MOUNTED INCANDESCENT LIGHT FIXTURE W/ HOUSH-NR FOR OPT. CEILING FAN

**NOTES:**

1. PROVIDE AND INSTALL GROUND FAULT CIRCUIT INTERRUPTERS (GFCI) AS INDICATED ON PLAN OR AS TEST NO. 4 AND 9 BELOW INDICATED.
2. UNLESS HEIGHTS ABOVE FINISHED FLOOR:
  - RECEPT. .... 2'
  - OUTLETS, .... 1'
  - TELEPHONE, .... (UNLESS ADV. CONSUMER)
  - TELEVISION, .... 1'
3. ALL SMOKE DETECTORS SHALL BE HARDWIRED INTO AN ELECTRICAL POWER SOURCE AND SHALL BE EQUIPPED WITH A MONITORED BATTERY BACKUP. PROVIDE AND INSTALL LOCALLY COVERED SMOKE DETECTORS.
4. ALL SLL AND SML RECEPTACLES IN SLEEPING ROOMS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PORCHES, LIBRARIES, DECKS, GARAGES, RECREATION ROOMS, CLOSETS, HALLWAYS, AND OTHER AREAS SHALL REQUIRE A COPPER/ALUMINUM TYPE AFCI DEVICE AND WEATHER-PROOF RECEPTACLES PER NEC 400.40(A), AND 400.41.
5. ALL SLL AND SML SMOKE RECEPTACLES LOCATED IN THE GARAGE AND UTILITY ROOMS SHALL BE GFCI PROTECTED (GFI).
6. IT IS THE RESPONSIBILITY OF THE LICENSED ELECTRICIAN TO ENSURE THAT ALL ELECTRICAL WORK IS IN FULL COMPLIANCE WITH NFPA 70, NEC, IBC, AND ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES.
7. EVERY BUILDING HAVING A FURNACE, HEIL, BURNING HEATER OR APPLIANCE, FURNACE, OR AN ATTACHED GARAGE SHALL HAVE AN OPERATIONAL CARBON MONOXIDE DETECTOR INSTALLED WITHIN 10 FEET OF EACH ROOM USED FOR SLEEPING PURPOSES.
8. ALWAYS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHEN EACH WIRING IS REMOVED FROM THE LOCAL POWER UTILITY. SUCH ALWAYS SHALL HAVE BATTERY BACKUP CAPABILITY (SMOKE/CARBON MONOXIDE ALWAYS SHALL BE LISTED OR LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY).



JOB NUMBER	B-1918871
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	08-28-20



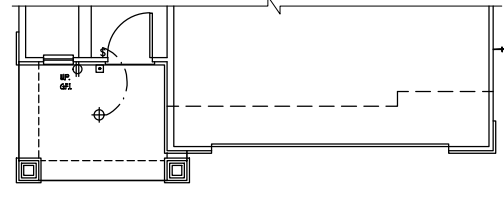
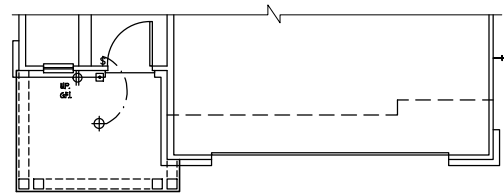
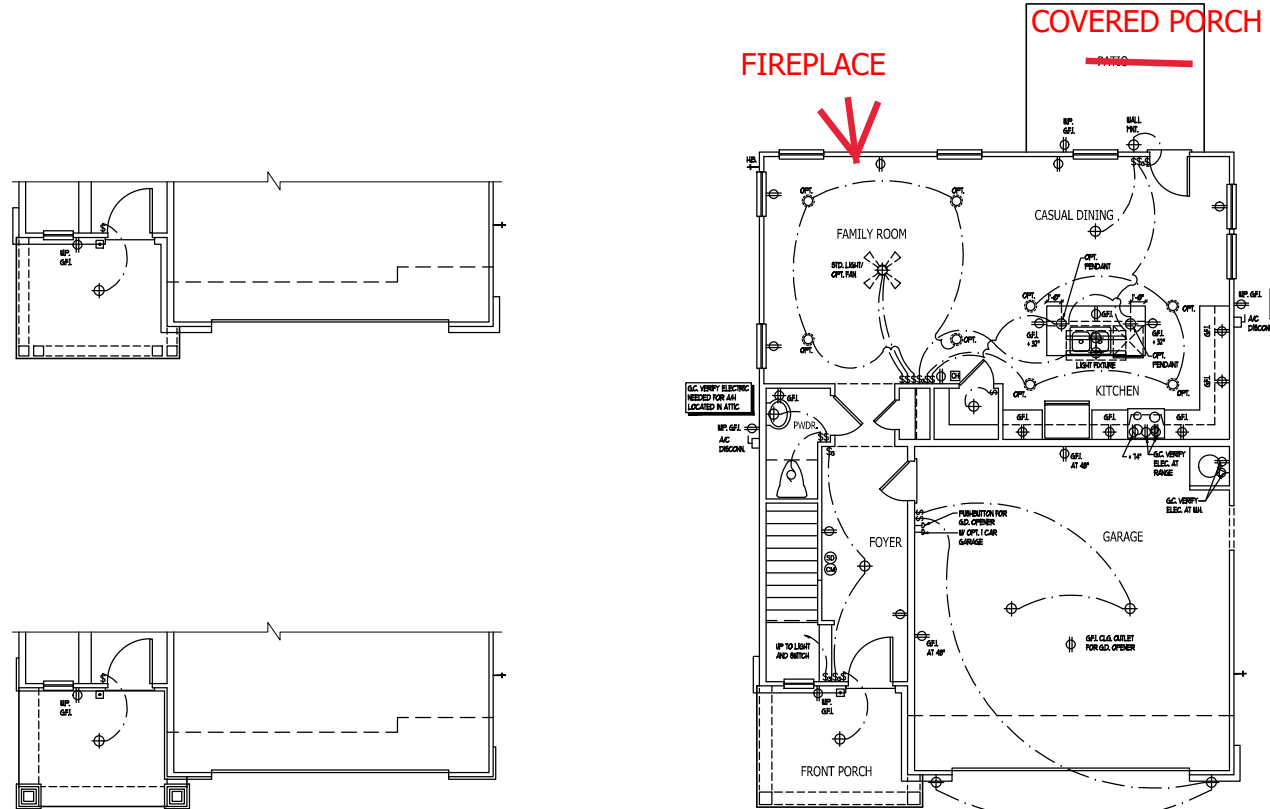
SEE ELECTRICAL SYMBOL SHEET  
 CALIFORNIA REGISTRATION NUMBER: 61567  
 LICENSE NUMBER: 95000  
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 DRAWINGS ON 1/4" = 1' SCALE  
 SHEET ARE ONE HALF THE SCALE NOTED



1958

TITLE  
 FIRST FL. ELECT. PLAN

SHEET  
**E1**



**FIRST FLOOR ELECTRICAL PLAN**

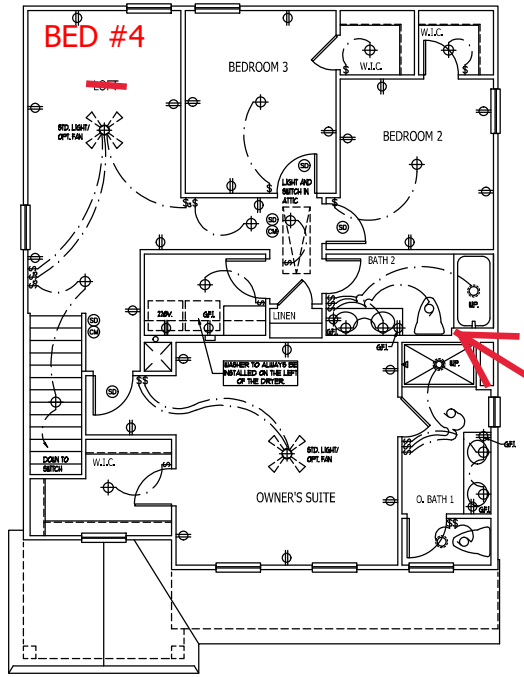
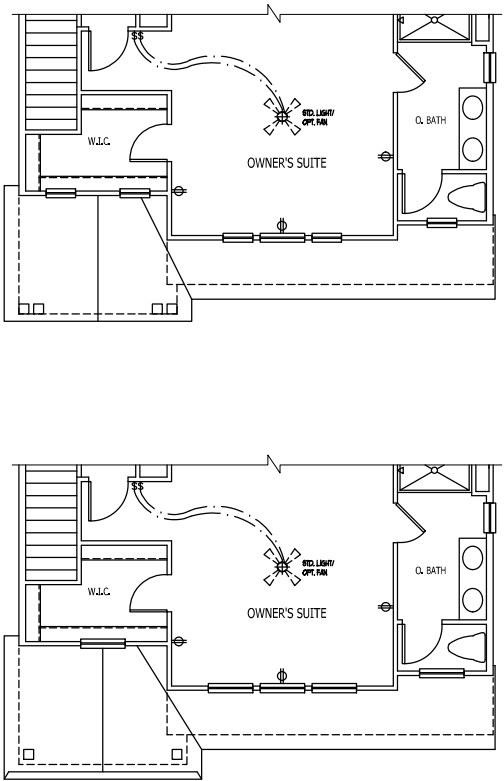


**ELECTRICAL KEY**

- ⊕ DUPLEX CONNORCE OUTLET
- ⊕ DUPLEX GLETT ABOVE COUNTER
- ⊕ LEATHERPROOF DUPLEX OUTLET
- ⊕ GROUND FAULT INTERRUPTER DUPLEX OUTLET
- ⊕ HALF-SWITCHED DUPLEX OUTLET
- ⊕ SPECIAL PURPOSE OUTLET
- ⊕ DUPLEX OUTLET IN FLOOR
- ⊕ 250 VOLT GLETT
- ⊕ WALL SWITCH
- ⊕ THREE-WAY SWITCH
- ⊕ FOUR-WAY SWITCH
- ⊕ DIMMER SWITCH
- ⊕ CEILING MOUNTED INCANDESCENT LIGHT FIXTURE
- ⊕ WALL MOUNTED INCANDESCENT LIGHT FIXTURE
- ⊕ RECESSED INCANDESCENT LIGHT FIXTURE
- ⊕ LIGHT FIXTURE WITH FULL CHAIN
- ⊕ TRACK LIGHT
- ⊕ FLUORESCENT LIGHT FIXTURE
- ⊕ EXHAUST FAN
- ⊕ EXHAUST FAN LIGHT COOPERATION
- ⊕ ELECTRIC DOOR OPERATOR (OPTIONAL)
- ⊕ CHAIRS (OPTIONAL)
- ⊕ FURNITURE SWITCH (OPTIONAL)
- ⊕ CARBON MONOXIDE DETECTOR
- ⊕ SMOKE DETECTOR
- ⊕ SMOKE / CARBON MONOXIDE DETECTOR
- ⊕ TELEPHONE (OPTIONAL)
- ⊕ TELEVISION (OPTIONAL)
- ⊕ THERMOSTAT
- ⊕ ELECTRIC METER
- ⊕ DISCONNECT SWITCH
- ⊕ SPEAKER (OPTIONAL)
- ⊕ HOUSING FOR OPT. CEILING FAN
- ⊕ HOUSING FOR OPT. CEILING FAN
- ⊕ CEILING MOUNTED INCANDESCENT LIGHT FIXTURE W/ HOUSING FOR OPT. CEILING FAN

**NOTES:**

1. PROVIDE AND INSTALL GROUND BOLT CONNECT INTERRUPTERS (GFCI) AS INDICATED ON PLANS OR AS PER IEC 4 AND 5 BELOW INDICATED.
2. UNLESS OTHERWISE INDICATED, INSTALL SWITCHES AND RECEPTACLES AT THE FOLLOWING HEIGHTS ABOVE FINISHED FLOOR:
  - SWITCHES: 48"
  - OUTLETS: 18"
  - TELEPHONE: 48" (UNLESS ASY. COORDINATED)
  - TELEVISION: 36"
3. ALL SMOKE DETECTORS SHALL BE HARDWIRED INTO AN ELECTRICAL POWER SOURCE AND SHALL BE EQUIPPED WITH A MONITORED BATTERY BACKUP. PROVIDE AND INSTALL LOCALLY COVERED SMOKE DETECTORS.
4. ALL SLL AND SDA RECEPTACLES IN SLEEPING ROOMS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PORCHES, LIBRARIES, DEN, GARAGES, RECREATION ROOMS, CLOSETS, HALLWAYS, AND SPLASH AREAS WILL REQUIRE A COOPERATION TYPE AFCI DEVICE AND LEATHER-PROOF RECEPTACLES PER IEC 4, 5, 6(A), AND 6(B).  
 5. ALL SLL AND SDA RECEPTACLES LOCATED IN THE GARAGE AND UTILITY ROOMS SHALL BE GFCI PROTECTED (GFI).
6. IT IS THE RESPONSIBILITY OF THE LICENSED ELECTRICIAN TO ENSURE THAT ALL ELECTRICAL WORK IS IN FULL COMPLIANCE WITH NFPA 70, NEC, SMC, AND ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES.
7. EVERY BUILDING HAVING A FURNACE, HEIL, BURNING HEATER OR APPLIANCE, FURNACE OR AN ATTACHED GARAGE SHALL HAVE AN OPERATIONAL CARBON MONOXIDE DETECTOR INSTALLED WITHIN 10 FEET OF EACH ROOM USED FOR SLEEPING PURPOSES.
8. ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING SUCH AS WIRING IS DERIVED FROM THE LOCAL POWER UTILITY. SUCH ALARMS SHALL HAVE BATTERY BACKUP COOPERATION SMOKE/CARBON MONOXIDE ALARMS SHALL BE LISTED OR LABELLED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.



**ADD WALL**

**SECOND FLOOR ELECTRICAL PLAN**



JOB NUMBER	B-1918871
DATE FILED	7/27/17
DESIGNED	07-10-19
REVISION	07-20-19
	08-28-20



FOR INFORMATION ONLY  
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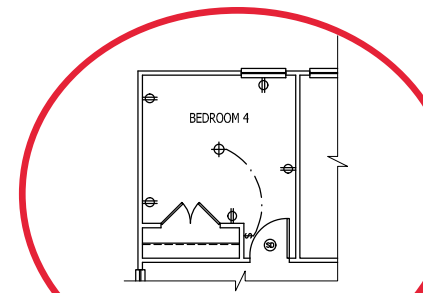
DRAWINGS ON THIS SHEET ARE ONE HALF THE SCALE NOTED



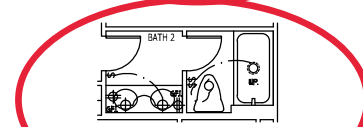
1958

TITLE  
 SECOND FLOOR PLAN

SHEET  
**E2**



OPT. BEDROOM 4 I.L.O. LOFT



OPT. WALL IN BATH 2



~~OPT. LAUNDRY TUB~~



NUMBER	B-1918871
DATE	12/20/18
REV	07-16-19
REV	07-22-19
REV	08-26-20

**DAVIS BEWS DESIGN GROUP**

1818 BENTLEY BLVD. SUITE 100  
 CALIFORNIA, CALIFORNIA 92503  
 WWW.DAVISBEWS.COM

DRAWINGS ON 1/4"=1'-0"  
 SHEET ARE ONE HALF  
 THE SCALE NOTED

KENZIE  
 H&H HOMES

1958

TITLE  
 SECOND FLOOR ELECTRICAL PLAN OPT

SHEET  
**E2.1**

SECOND FLOOR ELECTRICAL PLAN OPTIONS



## KENZIE

### NORTH CAROLINA

THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. THIS COORDINATION IS NOT THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (SER). SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY KSE ENGINEERING, P.C., BEFORE CONSTRUCTION BEGINS. IT IS THE INTENT OF THE ENGINEER LISTED ON THESE DOCUMENTS THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR. THE BUILDER AND ALL SUBCONTRACTORS ARE REQUIRED TO REVIEW ALL OF THE INFORMATION CONTAINED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ANY PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS.

#### DESIGN SPECIFICATIONS:

DESIGN BUILDING CODE (REFERRED TO HEREIN AS "THE BUILDING CODE"):

- 2018 NORTH CAROLINA RESIDENTIAL CODE, WALL BRACING PER INTERNATIONAL RESIDENTIAL CODE 2015 EDITION.

DESIGN LIVE LOADS:

- ROOF = 20 PSF (LOAD DURATION FACTOR=1.25)
- UNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS)
- HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 30 PSF
- FLOOR = 40 PSF
- FLOOR (SLEEPING AREAS) = 30 PSF
- DECK = 40 PSF
- BALCONY = 40 PSF
- STAIRS = 40 PSF

DESIGN DEAD LOADS:

- ROOF TRUSS = 17 PSF (TC=7, BC=10)
- FLOOR TRUSS = 15 PSF (TC=10, BC=5)
- FLOOR JOIST = 10 PSF
- QUEEN ANNE BRICK = 25 PSF

\*NOTE: STRUCTURAL FRAMING HAS NOT BEEN DESIGNED FOR TILE, GRANITE, MARBLE OR OTHER MATERIALS HEAVIER THAN THE ABOVE LOADING UNLESS SPECIFICALLY NOTED ON PLANS.\*

DESIGN WIND LOADS:

- ULTIMATE WIND SPEED = Up to 130 MPH
- EXPOSURE CATEGORY = B

ASSUMED SOIL BEARING CAPACITY = 2000 PSF

ASSUMED LATERAL SOIL PRESSURE = 45 PCF

FROST DEPTH = 12"

SEISMIC DESIGN CATEGORY = B

ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:

- TJI 210 SERIES (SERIES AND SPACING PER PLANS)
- LSL: E=1,550,000 PSI, F<sub>b</sub>=2,325 PSI, F<sub>v</sub>=310 PSI, F<sub>e</sub>=900 PSI
- LVL: E=2,000,000 PSI, F<sub>b</sub>=2,600 PSI, F<sub>v</sub>=285 PSI, F<sub>e</sub>=750 PSI
- PSL: E=2,100,000 PSI, F<sub>b</sub>=2,900 PSI, F<sub>v</sub>=290 PSI, F<sub>e</sub>=625 PSI

THIS PLAN HAS BEEN DESIGNED PER THE 2018 EDITION OF THE NC RESIDENTIAL CODE. WHERE FRAMING, FOUNDATION, OR OTHER STRUCTURAL ITEMS DO NOT COMPLY WITH THE PRESCRIPTIVE METHODS OF THE CODE, THOSE ITEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE PER NCRS R301.1.3.



Cover Sheet

Kenzie Model - RH  
Up to 130 M.P.H.

Project #: 105-19004  
Designed By: KKRK  
Checked By:  
Issue Date: 8/29/19  
Re-Issue: 4/30/20  
Scale: 1/8"=1'-0" @ 11x17  
1/4"=1'-0" @ 22x34

S-0

**GENERAL STRUCTURAL NOTES:**

- THE DESIGN PROFESSIONAL WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE LICENSED MEMBER OF THE REGISTERED PROFESSION FOR THIS PROJECT. THE SER BEARS THE RESPONSIBILITY OF THE PRIMARY STRUCTURAL ELEMENTS AND THE PERFORMANCE OF THIS STRUCTURE. NO OTHER PARTY MAY REVISION, ALTER, OR DELETE ANY STRUCTURAL ASPECTS OF THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN CONSENT OF KSE ENGINEERING, P.C. OR THE SER. FOR THE PURPOSES OF THESE CONSTRUCTION DOCUMENTS, THE SER AND KSE ENGINEERING SHALL BE CONSIDERED THE SAME ENTITY.
- THE STRUCTURE IS ONLY STABLE IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION TO STABILIZE THE STRUCTURE.
- THE SER IS NOT RESPONSIBLE FOR CONSTRUCTION SEQUENCES, METHODS, OR TECHNIQUES IN CONNECTION WITH THE CONSTRUCTION OF THIS STRUCTURE. THE SER WILL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONTRACT DOCUMENTS SHOULD ANY NON-COMPLIANCE OCCUR.
- THE SER DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF GEOMETRY. THE SER ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. THE SER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS. ANY STRUCTURAL ELEMENTS OR DETAILS NOT FULLY DEVELOPED ON THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. THESE SHOP DRAWINGS SHALL BE SUBMITTED TO KSE ENGINEERING FOR REVIEW BEFORE ANY CONSTRUCTION OF THE STRUCTURE BEGINS. REVIEW WILL BE REVISED FOR OVERALL COMPLIANCE AS IT RELATES TO THE STRUCTURAL DESIGN OF THIS PROJECT. VERIFICATION OF THE SHOP DRAWINGS FOR DIMENSIONS, OR FOR ACTUAL FIELD CONDITIONS, IS NOT THE RESPONSIBILITY OF THE SER OR KSE ENGINEERING, P.C.
- VERIFICATION OF ASSUMED FIELD CONDITIONS IS NOT THE RESPONSIBILITY OF THE SER. THE CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS FOR ACCURACY AND REPORT ANY DISCREPANCIES TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS.
- THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL ELEMENTS OR NON-STRUCTURAL ELEMENTS, EXCEPT FOR THE ELEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
- THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL CODES OR RESTRICTIONS.
- ALL DIMENSIONS UNLESS OTHERWISE NOTED SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING UNLESS OTHERWISE NOTED.
- PROVIDE MOISTURE PROTECTION AND FLASHING PER ARCHITECTURAL DETAILS.

**FOUNDATIONS:**

- FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE BUILDING CODE.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM THE GEO-TECHNICAL STUDY OF THE PROPOSED SITE TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.
- MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN THE BUILDING CODE.
- THE SER HAS NOT PERFORMED A SUBSURFACE INVESTIGATION. VERIFICATION OF THE ASSUMED VALUE IS THE RESPONSIBILITY OF THE OWNER OR THE CONTRACTOR. SHOULD ANY ADVERSE SOIL CONDITION BE ENCOUNTERED, THE SER MUST BE CONTACTED BEFORE PROCEEDING.
- THE BOTTOM OF ALL FOOTINGS SHALL EXTEND BELOW THE FROST LINE FOR THE REGION IN WHICH THE STRUCTURE IS TO BE CONSTRUCTED, BUT NOT LESS THAN MINIMUM OF 12" BELOW GRADE. ALL FOOTINGS TO HAVE A MINIMUM PROJECTION OF 2" ON EACH SIDE OF FOUNDATION WALLS. MAXIMUM FOOTING PROJECTION SHALL NOT EXCEED THE THICKNESS OF THE FOOTING.
- WOOD SLAB PLATES SHALL BE FASTENED TO THE FOUNDATION WITH 3/4" ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" O.C. INSTALL MINIMUM 2 ANCHOR BOLTS PER SECTION, 12" MAXIMUM FROM CORNERS. 3/4" DIAMETER x 8' LONG SIMPSON TIE HD OR USP SCREW-BOLT+X SCREWS MAY BE SUBSTITUTED ON A 1 FOR 1 BASIS.
- ANY FILL SHALL BE PLACED UNDER THE DIRECTION OR RECOMMENDATION OF A LICENSED PROFESSIONAL ENGINEER. THE RESULTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY.
- EXCAVATIONS OF FOOTINGS SHALL BE LINED TEMPORARILY WITH A 6 MIL POLYETHYLENE MEMBRANE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HOURS OF EXCAVATION.
- NO CONCRETE SHALL BE PLACED AGAINST ANY SUBGRADE CONTAINING WATER, ICE, FROST, OR LOOSE MATERIAL.
- PROVIDE FOUNDATION DRAINAGE AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS (SEE ARCHITECTURAL PLANS AND DETAILS).
- NONE OF THE FOUNDATION DESIGNS IN THESE DOCUMENTS ARE SUITABLE FOR INSTALLATION IN SHIRM/SWELL CONDITIONS. REFER TO GEO-TECHNICAL ENGINEER FOR APPROPRIATE DESIGN.
- LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FLAT A MINIMUM OF 6 INCHES WITHIN THE FIRST TEN FEET.
- DRAIN SPACE TO BE GRADED LEVEL AND CLEAR OF ALL DERRIS.
- PROVIDE MINIMUM 6 MIL APPROVED VAPE BARRIER. ALL JOINTS TO BE LAPPED MINIMUM 12" AND SEALED.

**CONCRETE & REINFORCING**

- CONCRETE DESIGN BASED ON ACI 318 AND ACI 318.1 OR ACI 332. CONCRETE SHALL HAVE A MINIMUM AND A MINIMUM COMPRESSIVE STRENGTH ( $f'_c$ ) = 3000 PSI MINIMUM AT 28 DAYS PER CODE (VARIES W/ WEATHER), UNLESS OTHERWISE NOTED ON THE PLAN.
- CONCRETE SHALL BE PROPORTIONED, MIXED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301: "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
- AIR ENRICHED CONCRETE MUST BE USED FOR ALL STRUCTURAL ELEMENTS EXPOSED TO FREEZE/THAW CYCLES AND DANGEROUS CHEMICALS. AIR ENRICHMENT AMOUNT (AS PERCENT) SHALL BE WITHIN -1% TO +2% OF 5% FOR FOOTINGS AND EXTERIOR SLABS.
- NO ADMIXTURES SHALL BE ADDED TO ANY STRUCTURAL CONCRETE WITHOUT WRITTEN PERMISSION OF THE SER. WATER ADDED TO CONCRETE ON SITE SHALL NOT EXCEED THAT ALLOWED BY THE MIX DESIGN.
- CONCRETE SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302.1R "GUIDE FOR CONCRETE SLAB AND SLAB CONSTRUCTION".
- CONTROL OR SAW CUT JOINTS (CUT OR TOOLED) SHALL BE SPACED IN INTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 15'-0" O.C. AND IN EXTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 10'-0" UNLESS OTHERWISE NOTED. CARE SHALL BE TAKEN TO AVOID RE-ENTRANT CORNERS.
- CONTROL OR SAW CUT JOINTS SHALL BE PRODUCED USING CONVENTIONAL CUT OR TOOLED PROCESSES WITHIN 4 TO 12 HOURS AFTER THE SLAB HAS BEEN FINISHED.
- ALL WELDED WIRE FABRIC (W.W.F.) FOR CONCRETE SLABS-ON-GRADE SHALL BE PLACED AT MID-DEPTH OF SLAB. THE W.W.F. SHALL BE SECURELY SUPPORTED DURING THE CONCRETE POUR. FIBROUS CONCRETE REINFORCING FABRIC (F.R.F.) MAY BE USED IN LIEU OF W.W.F. APPLICATION OF POLYPROPYLENE FIBERS PER CUBIC YARD OF CONCRETE SHALL BE PER MANUFACTURER AND COMPLY WITH ASTM C1116, ANY LOCAL BUILDING CODE REQUIREMENTS AND SHALL MEET OR EXCEED CURRENT INDUSTRY PRACTICES.
- POLYPROPYLENE REINFORCING TO BE 100% VIRGIN, CONTAINING NO REPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCING.
- STEEL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
- DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318 "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES".
- HORIZONTAL FOOTING AND WALL REINFORCING SHALL BE CONTINUOUS AND SHALL HAVE 90° BENDS, OR CORNER BARS WITH THE SAME SIZE/SPACING AS THE HORIZONTAL REINFORCING.
- PROVIDE REINFORCEMENT LAP AS NOTED BELOW, UNLESS NOTED OTHERWISE:  
#4 BARS - 30" LENGTH  
#5 BARS - 38" LENGTH  
#6 BARS - 45" LENGTH
- WHERE REINFORCING BENDS ARE REQUIRED, THEY SHALL BE EQUIVALENT IN SIZE AND SPACING TO THE VERTICAL REINFORCING. THE DOWEL SHALL EXTEND 48 BAR DIAMETERS VERTICALLY AND 20 BAR DIAMETERS INTO THE FOOTING. SEE KSE FOUNDATION DETAILS.
- WHERE FOOTING BOTTOMS ARE TO BE STEPPED AT SLOPING GRADE CONDITIONS, PROVIDE CONTINUOUS REINFORCING WITH Z BARS (TO MATCH FOOTING REINFORCING) AS REQUIRED.
- BAR SUPPORT ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, EXCEPT THAT REINFORCING SHALL BE CHAINED ON THE BOTTOM AND/OR THE SIDES ON BOLSTERS SPACED NOT MORE THAN 4 FEET ON CENTER. NO ROCKS, GUM, CLAY TILE, OR BRICK SHALL BE USED TO SUPPORT REINFORCING.
- FOR GRADE SUPPORTED SLABS, SLAB REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS AND ACCESSORIES AS DESCRIBED IN THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS SHALL BE 1/2" DIA NAILS PLACED AT 4'-0" O.C. BOTH WAYS IN STRAIGHT LINES ON THE MESH GRID.

**MASONRY**

- ALL MASONRY SHALL CONFORM TO ASTM C-90,  $F_m=1500$  PSI. ALL BRICK SHALL CONFORM TO ASTM C-216,  $F_m=1500$  PSI. ALL BLOCK SHALL BE TYPE "S" (TYPE "M" BELOW GRADE) AND CONFORM TO ASTM C-270. COURSE GROUT SHALL CONFORM TO ASTM C-476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
- ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530/ASCE 5/TMS 402 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1/ASCE 6/TMS 602. THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION.
- EACH CHAMF SPACE PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING AND EACH CORNER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS. PLASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
- TOP COURSE OF MASONRY SHALL BE GROUTED SOLID.
- HORIZONTAL WALL JOINT REINFORCEMENT SHALL BE STANDARD 9 GAGE GALVANIZED LADDER OR TRUSS TYPE SPACED AT 16" O.C., UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- SPICED WIRE REINFORCEMENT SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE.
- HORIZONTAL WALL JOINT REINFORCEMENT SHALL BE 1/2" DIA. REINFORCEMENT WITHIN THE 6" LAP WITH STANDARD "T" AND "L" SHAPED PIECES AT INTERSECTIONS AND CORNERS.

**WOOD FRAMING:**

- SOLID SAW WOOD FRAMING MEMBERS SHALL CONFORM TO THE SPECIFICATIONS LISTED IN THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (NDS). UNLESS OTHERWISE NOTED, ALL WOOD FRAMING MEMBERS ARE DESIGN TO BE: SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING MINIMUM DESIGN VALUES:  
 $E=1,400,000$  PSI,  $F_c=875$  PSI,  $F_t=135$  PSI  
1.1. FRAMING: SPF #2.  
1.2. PLATES: SPF #2.
- STUDS TO BE 2" DIA. STUD GRADE.
- WALL STUD SPACING, (MAXIMUM 1/0 NOMINAL PLATE HEIGHT):  
1 & 2 STORY EXTERIOR AND INTERIOR BEARING;  
2x4 @ 16" O.C. OR 2x6 @ 24" O.C., U.N.O.  
BOTTOM OF 3 STORES EXTERIOR AND INTERIOR BEARING:  
2x6 @ 16" O.C., U.N.O.  
INTERIOR NON-BEARING:  
2x8 @ 24" O.C., U.N.O.
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED SOUTHERN YELLOW PINE #2 OR BETTER.
- ANCHOR SILL PLATES IN ACCORDANCE W/ GENERAL STRUCTURAL NOTES.
- ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY BE SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION.
- NAILS SHALL BE COMMON WIRE NAILS UNLESS OTHERWISE NOTED.
- BOLT HOLES AND LEND HOLES FOR LAG SCREWS SHALL BE IN ACCORDANCE WITH NDS.
- INDIVIDUAL STUDS FORMING A COLUMN SHALL BE ATTACHED WITH (2) ROWS 10x14s OR 6" O.C. STAGGERED. THE STUD COLUMN SHALL BE FULLY BLOCKED AT ALL FLOOR LEVELS TO ENSURE PROPER LOAD TRANSFER.
- WALL SHEATHING SHALL BE NAILED TO EDGE OF EACH STUD. FACE NAIL WITH SHEATHING NAILS AND HEADERS WITH (2) ROWS 16x4 COMMON NAILS @ 16" O.C., STAGGERED, OR PER MANUFACTURER'S SPECIFICATIONS FOR ENGINEERED LUMBER. APPLY NAILING FROM BOTH FACES FOR (3) OR MORE PLYS.
- INSTALL 4-PLY BEAMS WITH 1 1/2" DIA. THROUGH BOLT W/ NUTS AND WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, 1/4" MINIMUM EDGE DISTANCE. (UNLESS OTHERWISE NOTED).
- ALL BEAMS AND HEADERS SHALL HAVE (1)2x JACK STUD & (1)2x KING STUD UNLESS OTHERWISE NOTED. THE NUMBER OF STUDS INDICATED ON PLANS ARE THE TOTAL NUMBER OF JACK STUDS REQUIRED, UNLESS OTHERWISE NOTED.
- PROVIDE KING STUDS AT EACH END OF HEADERS AS NOTED BELOW.  
(1) STUD UP TO 6' OPENING  
(2) STUDS UP TO 9' OPENING  
(3) STUDS UP TO 9' OPENING
- ALL BEAMS TO BE CONTINUOUSLY SUPPORTED Laterally AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED ON PLANS. MINIMUM OF TWO STUDS, UNLESS OTHERWISE NOTED. ALL BEAM SPLICES SHALL OCCUR OVER SUPPORTS.
- LOAD BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
- ALL LUMBER SHOWN ON DRAWINGS IS INTENDED FOR DRY USE ONLY (MOISTURE CONTENT <19%) UNLESS OTHERWISE NOTED.
- ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS.
- ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIAMETER SHALL HAVE STUD PROTECTION SHELLS. ALL HOLES OVER 1" IN DIAMETER FOR PLUMBING LINES, ETC. SHALL BE REPAIRED WITH SIMPSON IBS22 OR USP 3151 STUD SHOES, TYPICAL, UNLESS OTHERWISE NOTED.
- BEARING WALLS SHALL BE SHEATHED ON NOT LESS THAN ONE SIDE WITH OSB OR DIPSUM BOARD. BRIDGING SHALL BE INSTALLED NOT GREATER THAN 4 FEET APART MEASURED VERTICALLY FROM EITHER END OF THE STUD IN LIEU OF SHEATHING.
- DIAGONAL BRACING SHALL BE INSTALLED AT EACH END OF BASEMENT BEARING WALLS AND NOT MORE THAN 20' ON CENTER.

**EXTERIOR WOOD FRAMED DECKS:**

- DECKS ARE TO BE FRAMED IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND AS REFERENCED ON THE STRUCTURAL PLANS, SHEATHING CODES AND REFINISHING CODES.
- PRESERVATIVE TREATED WOOD FRAMING TO BE SOUTHERN YELLOW PINE #2 OR BETTER.
- GUARD RAILS REQUIRED AT DECKS. DESIGN BY OTHERS TO MEET MINIMUM CODE REQUIREMENTS.
- PROVIDE DECK LATERAL LOAD AND BRACING CONNECTIONS PER BUILDING CODE.

**RAFTER FRAMED ROOF CONSTRUCTION:**

- PROVIDE 2x4x4-0" RAFTER TIES AT 48" O.C.
- RAFTERS SHALL BE SUPPORTED BY PURLINS AND PURLIN BEARS AS SHOWN ON THE PLAN. PURLIN BEARS SHALL NOT BEAR ON ANY CEILING JOIST, STRONGBACK OR HEADER UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.
- CEILING JOISTS SHALL HAVE LATERAL SUPPORT W/ 1x4 FLAT BRACING ON TOP EDGE OF JOIST AT LOOSE JOIST ENDS (WHERE JOISTS NOT FASTENED TO RAFTERS) OR FULL DEPTH SHEATHING. FASTEN END OF BRACING TO RAFTERS OR GABLE END FRAMING.
- FASTEN RAFTER AND CEILING JOIST WITH (6) 1/2" NAILS UNLESS OTHERWISE NOTED.
- PROVIDE VERTICAL 2x6 STRONGBACKS AT CEILING JOISTS @ 8'-0" O.C. THE STRONGBACK ENDS TO GABLE STUDS OR RAFTERS WHERE POSSIBLE. PROVIDE BLOCKING BETWEEN TOP PLATES AND STRONGBACKS. PROVIDE 2x4 FLAT FASTENED TO EACH JOIST WITH (1) 12x NAILS. FASTEN STRONGBACK TO 2x4 FLAT WITH 12x NAILS @ 12" O.C. AND FASTENED TO EACH JOIST WITH (1) 12x TOENAIL.

**WOOD TRUSSES (FLOOR & ROOF):**

- THE WOOD TRUSS MANUFACTURER/FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF THE WOOD TRUSSES. SUBMIT SEALED SHOP DRAWINGS AND SUPPORTING CALCULATIONS TO THE SER FOR REVIEW PRIOR TO FABRICATION. THE SER SHALL HAVE A MINIMUM OF (5) DAYS FOR REVIEW. THE REVIEW BY THE SER SHALL BE FOR OVERALL COMPLIANCE OF THE DESIGN DOCUMENTS. THE SER SHALL ASSUME NO RESPONSIBILITY FOR THE CORRECTNESS OF THE STRUCTURAL DESIGN FOR THE WOOD TRUSSES.
- THE WOOD TRUSSES SHALL BE DESIGNED FOR ALL REQUIRED LOADINGS AS SPECIFIED IN THE TRUSS DESIGN. THE TRUSS DESIGN SHALL BE FOR "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES." (ASCE 7), AND THE LOADING REQUIREMENTS SHOWN ON THESE SPECIFICATIONS. THE TRUSS DRAWINGS SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION DOCUMENTS AND PROVISIONS PROVIDED FOR LOADS SHOWN ON THESE DRAWINGS INCLUDING BUT NOT LIMITED TO HVAC EQUIPMENT, PIPING, AND ARCHITECTURAL FIXTURES ATTACHED TO THE TRUSSES.
- THE TRUSSES SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANS/PTI 1: NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION.
- THE TRUSS MANUFACTURER SHALL PROVIDE ADEQUATE BRACING INFORMATION IN ACCORDANCE WITH "BUILDING COMPONENT SAFETY INFORMATION GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" (BCS). THIS BRACING, BOTH TEMPORARY AND PERMANENT, SHALL BE SHOWN IN THE TRUSS DESIGN. THE TRUSS DRAWINGS SHALL SHOW THE REQUIRED ATTACHMENTS FOR THE TRUSSES.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING TEMPORARY BRACING AND SHORING FOR THE FLOOR AND ROOF TRUSSES AS REQUIRED DURING CONSTRUCTION. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE LATEST BCIS. THE CONTRACTOR SHALL KEEP A COPY OF THE BCIS SUMMARY SHEETS ON SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL PERMANENT TRUSS BRACING SHOWN IN THE STRUCTURAL DRAWINGS AND IN THE TRUSS DESIGNS. ALL CONTINUOUS LATERAL BEAMS OF WEBS REQUIRED BRACES. REFER TO BCIS SUMMARY SHEET 83 FOR TYPES OF DIAGONAL BRACES TO PROVIDE AT EACH CONTINUOUS LATERAL BRACE. SUCH DIAGONAL BRACES SHALL NOT BE SPACED MORE THAN 20 FEET O.C. DIAGONAL BRACES SHALL BE FASTENED TO EACH TRUSS WEB WITH A MINIMUM OF TWO 10x FACE NAILS. WHERE CONTINUOUS LATERAL BRACES CANNOT BE INSTALLED, DUE TO A MINIMUM OF THREE ADJACENT TRUSSES NOT BEING IDENTICAL, THE CONTRACTOR SHALL COORDINATE WITH THE TRUSS SPECIALTY ENGINEER/MANUFACTURER TO DETERMINE WHAT TYPE OF ALTERNATE BRACE (I.E., 1 OR L BRACE, ETC.) IS REQUIRED.
- ANY CHORDS OR TRUSS WEBS SHOWN ON THESE DRAWINGS HAVE BEEN SHOWN AS A REFERENCE ONLY. THE FINAL DESIGN OF THE TRUSSES SHALL BE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER.
- TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN ON THE SEALED STRUCTURAL DRAWINGS. TRUSS PROFILES TO BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PROFILES TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS.
- TRUSS MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTORS FOR ALL TRUSSES.
- PROVIDE SIMPSON H2.5A, USP R17 OR EQUIVALENT AT EACH TRUSS TO TOP PLATE CONNECTION, UNLESS OTHERWISE NOTED.

**WOOD STRUCTURAL PANELS:**

- FABRICATION AND PLACEMENT OF STRUCTURAL WOOD SHEATHING SHALL BE IN ACCORDANCE WITH THE APA DESIGN/CONSTRUCTION GUIDE "RESIDENTIAL AND COMMERCIAL," AND ALL OTHER APPLICABLE APA STANDARDS.
- ALL REQUIRED WOOD SHEATHING SHALL BEAR THE MARK OF THE MANUFACTURER.
- WOOD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR WALL SHEATHING. EXTERIOR WALLS TO BE FULLY SHEATHED USING 3/4" OSB OR PLYWOOD MINIMUM. AT BRACED WALL PANELS, PROVIDE BLOCKING AT ALL SHEET EDGES NOT FALLING ON STUDS OR PLATES.
- ROOF SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ROOF SHEATHING SHALL BE CONTINUOUS OVER TWO SUPPORTS MINIMUM AND ATTACHED TO ITS SUPPORTING ROOF FRAMING WITH NAILS AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING SHALL BE APPLIED WITH THE LONG DIRECTION PERPENDICULAR TO FRAMING. SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPACING. PROVIDE SUTURE BRACING AND SUPPORT BY USE OF PLYWOOD CLIPS OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING. ROOF SHEATHING TO BE 3/4" OSB MINIMUM.
- WALL SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ATTACH SHEATHING TO ITS SUPPORTING FRAMING WITH (1) 10d NAIL AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING SHALL BE APPLIED PERPENDICULAR TO FRAMING. SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPACING. PROVIDE SUTURE BRACING AND SUPPORT BY USE OF TAG PLYWOOD OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING. EXTERIOR WALLS TO BE FULLY SHEATHED WITH A 3/4" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE APA.

**STRUCTURAL FIBERBOARD PANELS:**

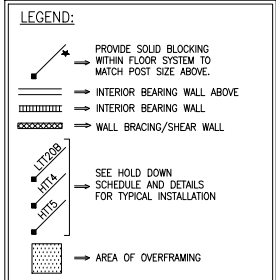
- STRUCTURAL FIBERBOARD SHEATHING SHALL ONLY BE USED WHERE SPECIFIED IN THE PLAN SET FOR THE STRUCTURAL PLANS.
- FABRICATION AND PLACEMENT OF STRUCTURAL FIBERBOARD SHEATHING SHALL BE IN ACCORDANCE WITH THE APPLICABLE AFA STANDARDS.
- FIBERBOARD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION.
- SHEATHING SHALL HAVE A 3/4" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE AFA.

**STRUCTURAL STEEL:**

- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND OF THE MANUAL OF STEEL CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN" LATEST EDITIONS.
- ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS ( $f_y$ ) OF 50 KSI UNLESS OTHERWISE NOTED.
- WELDING SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AWA D1.1. ELECTRODES FOR SHOP AND FIELD WELDING SHALL BE CLASS E70XX. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER PER THE ABOVE STANDARDS.
- ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3" AND FULL FLANGE WIDTH UNLESS OTHERWISE NOTED. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16x NAILS OR (2) 3/4" x 4" LAG SCREWS UNLESS OTHERWISE NOTED.
- INSTALL 2x WOOD PLATE ON TOP OF STEEL BEAMS, RIPPED TO MATCH BEAM WIDTH. FASTEN PLATE TO BEAM W/ HLTI X-DNI 52 PB PINS AT 12" O.C. STAGGERED OR 3/2" DIAMETER BOLTS AT 24" O.C.

**MECHANICAL FASTENERS:**

- ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG-TIE OR APPROVED EQUIVALENT.
- ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 153, G-185.
- MANY OF THE NEW PRESURE TREATED WOOD USE CHEMICALS THAT ARE CORROSIVE TO STEEL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TYPE OF WOOD TREATMENT AND SELECT APPROPRIATE CONNECTORS THAT WILL RESIST THE APPLICABLE CORROSIVE CHEMICALS.



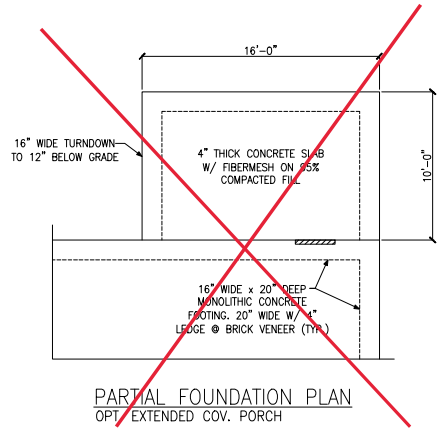
SPAN	LINTEL SIZE	END BEARING
UP TO 3'-0"	3x3x3 3/4"	4"
UP TO 6'-3"	5x3x3 3/4" L.L.V.	6"
UP TO 9'-0"	6x3x3 3/4" L.L.V.	12"

LINTELS ARE NOT DESIGNED TO BE BOLTED TO HEADERS UNLESS SPECIFIED ON UNIT PLANS.  
SPANS OVER 4'-0" SHALL BE SHORED UP UNTIL CURED.

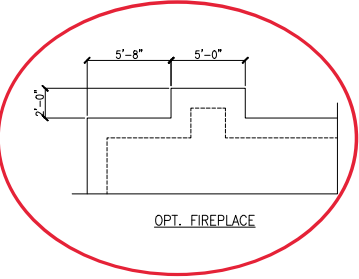


General Structural Notes  
Up to 130 M.P.H.  
North Carolina

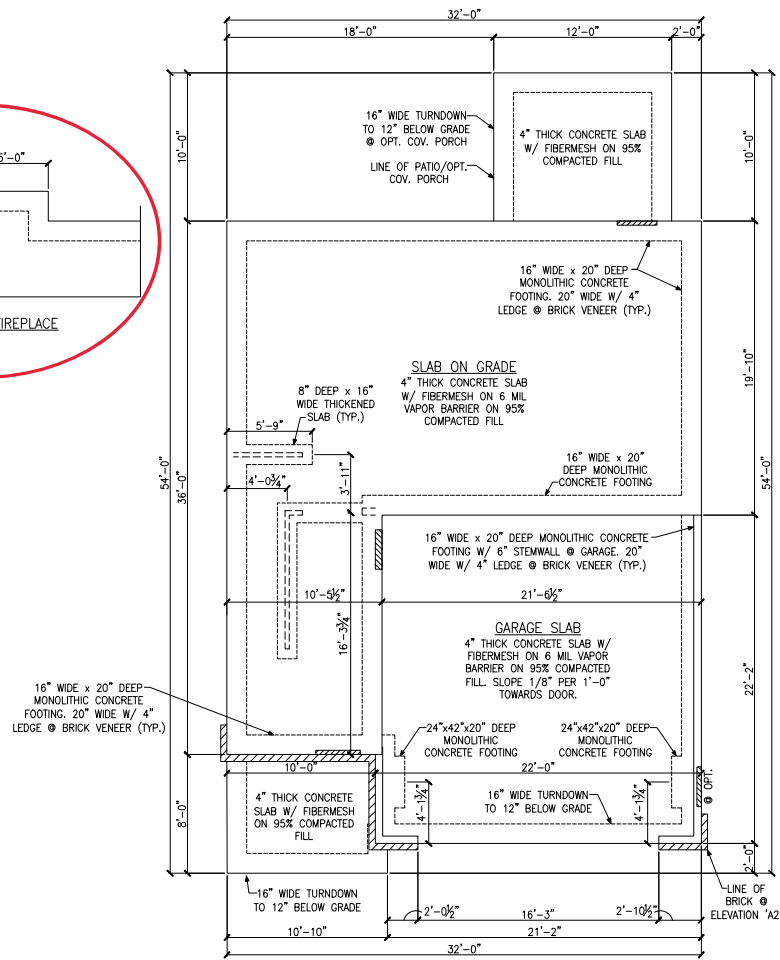
Project #: 105-19000  
Designed by: KRK  
Checked by:  
Issue Date: 1/1/19  
Re-Issue:  
Scale: 1/8"=1'-0" @ 11x17  
1/4"=1'-0" @ 22x34



PARTIAL FOUNDATION PLAN  
 OPT EXTENDED COV. PORCH

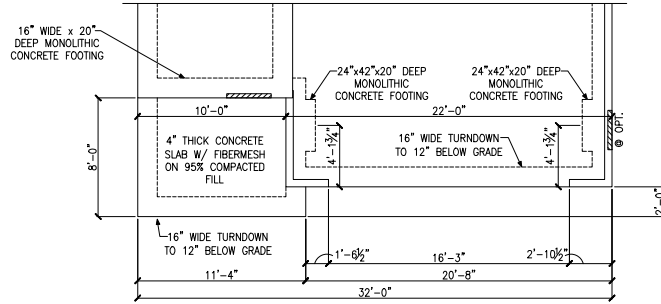


OPT. FIREPLACE

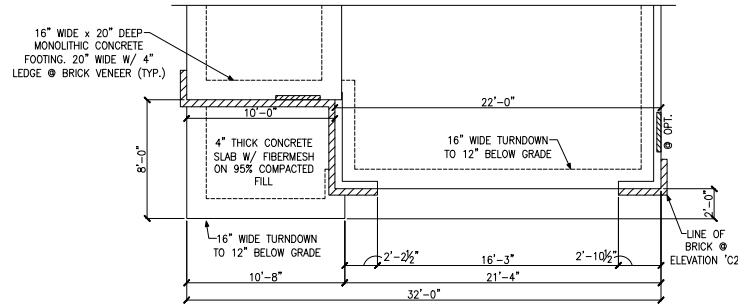


MONOLITHIC SLAB FOUNDATION PLAN  
 ELEVATIONS 'A1' & 'A2'

LEGEND	
	PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
	BEARING WALL ABOVE
	INTERIOR BEARING WALL
	BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
	48" WSP
	LOCATION OF DOOR ABOVE
REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS	



MONOLITHIC SLAB FOUNDATION PLAN  
ELEVATIONS 'B1' & 'B2'



MONOLITHIC SLAB FOUNDATION PLAN  
ELEVATIONS 'C1' & 'C2'

**LEGEND**

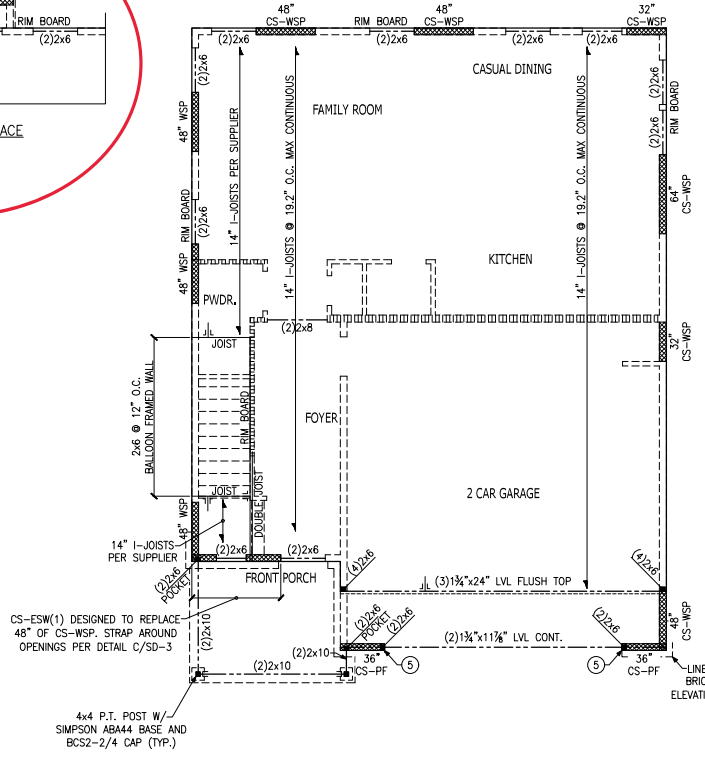
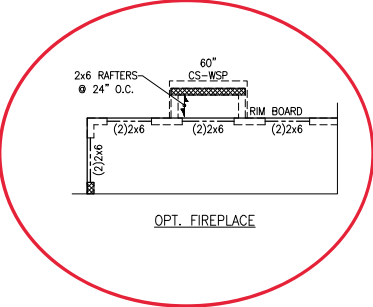
- ★ PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- ▬ BEARING WALL ABOVE
- ▬ INTERIOR BEARING WALL
- ▬ BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
- 48" WSP
- ▬ LOCATION OF DOOR ABOVE

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

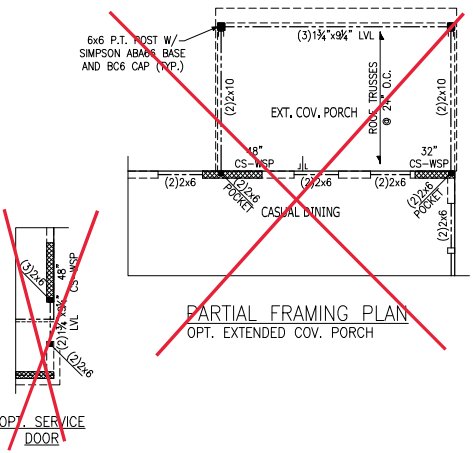
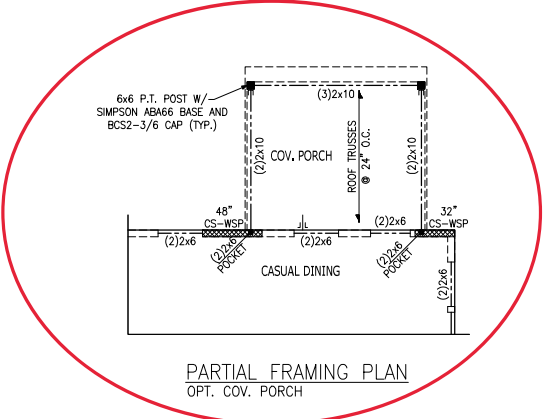
Monolithic Slab Foundation Plans  
Elevations 'B1', 'B2', 'C1' & 'C2'  
Kenzie Model - RH  
Up to 130 M.P.H.  
Carolina Division

Project #: 105-19004  
Designed By: KKK  
Checked By:  
Issue Date: 8/29/19  
Re-Issue: 4/30/20  
Scale: 1/8"=1'-0" @ 11x17  
1/4"=1'-0" @ 22x34



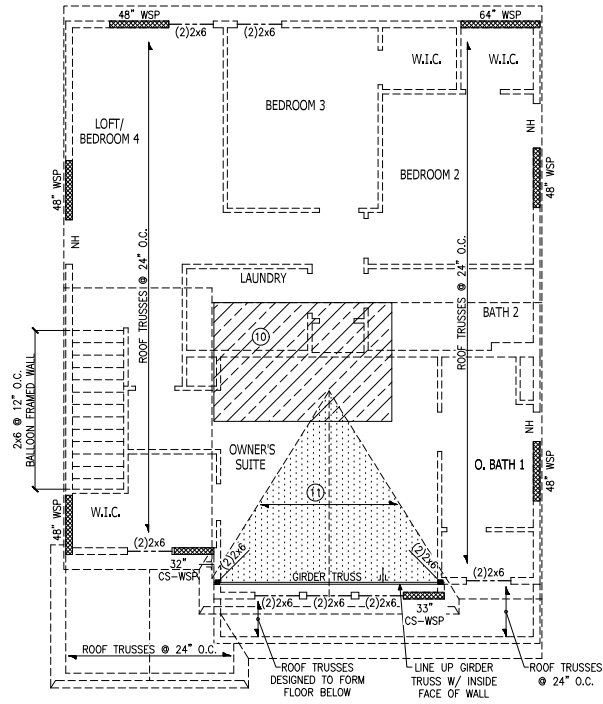


SECOND FLOOR FRAMING PLAN  
 ELEVATIONS 'A1' & 'A2'



LEGEND	
	PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
	BEARING WALL ABOVE
	INTERIOR BEARING WALL
	BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
	48" WSP
	NH NO HEADER REQUIRED
REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS	
PLAN DESIGNED WITH 9" WALL PLATES	
FLOOR FRAMING TO BE 14" DEEP TJI 110 SERIES OR EQUAL, SPACING PER MANUFACTURER.	
KEYNOTES:	
	INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.
	INSTALL TWO PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.





ROOF FRAMING PLAN  
ELEVATIONS 'B1' & 'B2'

**LEGEND**

- ★ PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- BEARING WALL ABOVE
- INTERIOR BEARING WALL
- ▤ BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
- 48" WSP
- NH NO HEADER REQUIRED

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PLAN DESIGNED WITH 8" WALL PLATES

**KEYNOTES:**

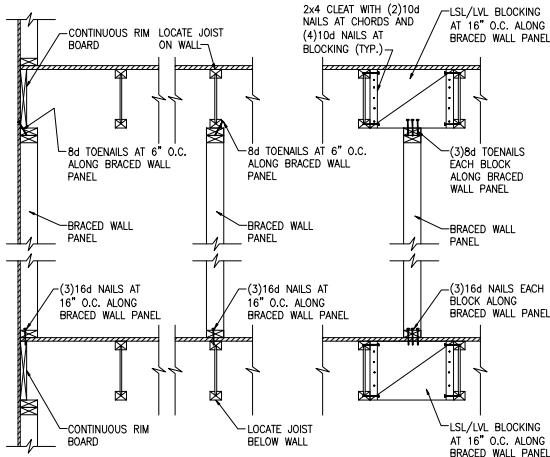
- ⑩ 8'x12' HVAC PLATFORM TRUSSES DESIGNED TO SUPPORT HVAC UNITS.
- ⑪ 2x6 OVERFRAMING W/ 2x8 RIDGE AND VALLEY PLATES OR VALLEY SET TRUSSES @ 24" O.C. (TYP.)

Roof Framing Plan  
Elevations 'B1' & 'B2'  
Kenzie Model - RH  
Up to 130 M.P.H.  
Carolina Division

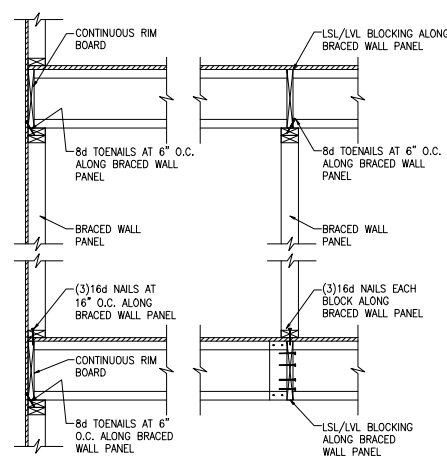
Project #: 105-19004  
Designed By: KKK  
Checked By:  
Issue Date: 8/29/19  
Re-Issue: 4/30/20  
Scale: 1/8"=1'-0" @ 11x17  
1/4"=1'-0" @ 22x34



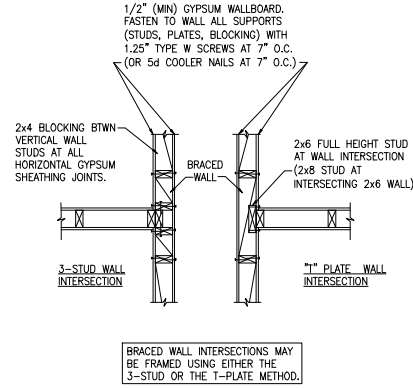




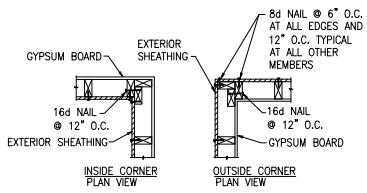
**A** TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION  
BRACED WALL PANELS PARALLEL TO I-JOISTS



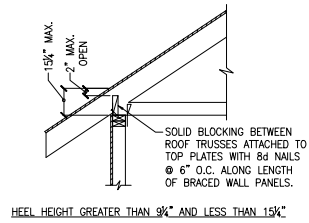
**B** TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION  
BRACED WALL PANELS PERPENDICULAR TO I-JOISTS



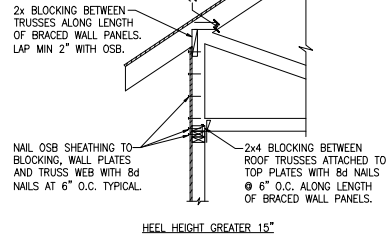
**C** METHOD GB(1) AND GB(2) INTERSECTION DETAILS



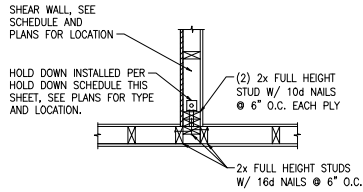
**D** TYPICAL EXTERIOR CORNER WALL FRAMING



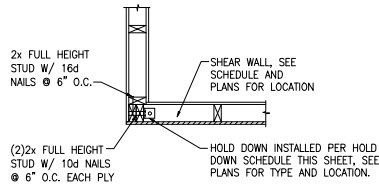
**E** ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS  
ONLY REQUIRED AT BRACED WALL PANELS



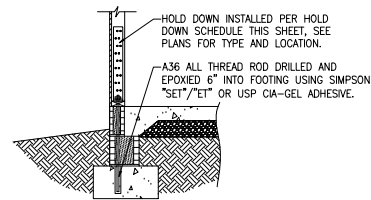




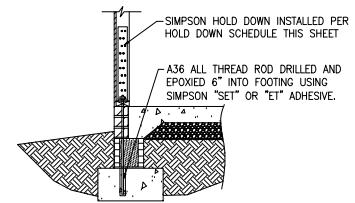
(A) TYPICAL HOLD DOWN DETAIL



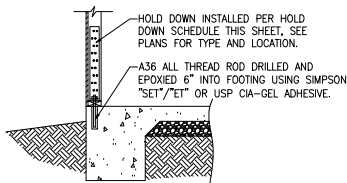
(B) TYPICAL HOLD DOWN DETAIL



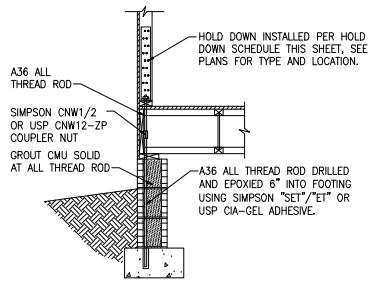
(C) HOLD DOWN AT STEMWALL SLAB FOUNDATION



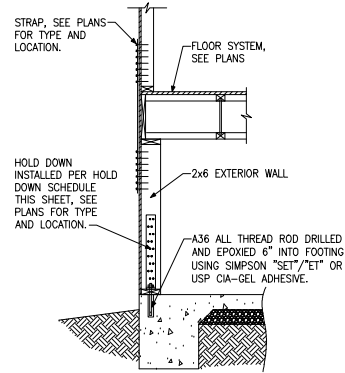
(C) HOLD DOWN AT STEMWALL SLAB



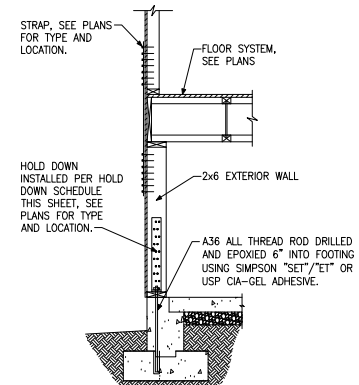
(D) HOLD DOWN AT MONOLITHIC SLAB FOUNDATION



(E) HOLD DOWN AT CRAWL SPACE FOUNDATION



(F) HOLD DOWN AT BASEMENT FOUNDATION MONOLITHIC TURN-DOWN



(G) HOLD DOWN AT BASEMENT FOUNDATION STEM WALL

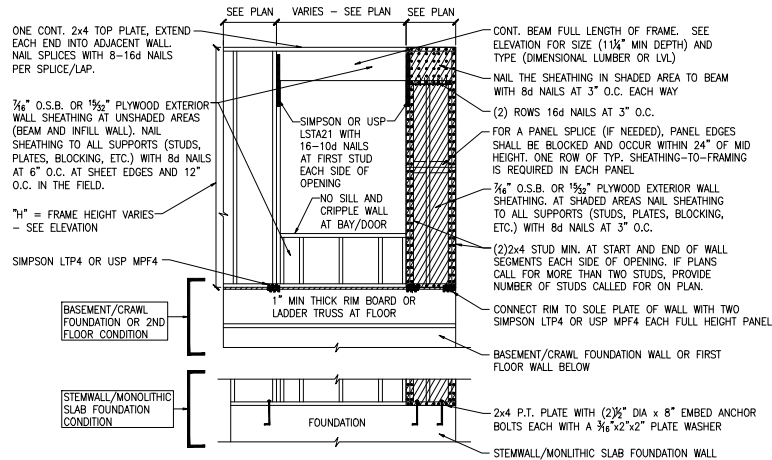
HOLD DOWN SCHEDULE			
HOLD DOWN		ALL THREAD ROD	FASTENERS
SIMPSON	USP		
LIT20B	LTS20B	1/2" DIA.	(10)10d NAILS
HTT4	HTT16	3/8" DIA.	(18)16dx2 1/2" LONG NAILS
HTT5	HTT45	3/8" DIA.	(26)16dx2 1/2" LONG NAILS



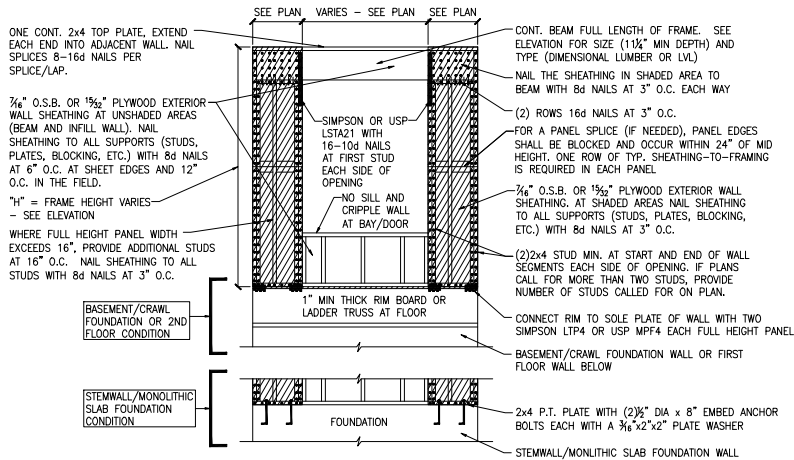
Hold Down Details

Project #: 105-19000  
 Designed By: KRK  
 Checked By:  
 Issue Date: 1/1/19  
 Re-Issue:  
 Scale: 1/8"=1'-0" @ 11x17  
 1/4"=1'-0" @ 22x34

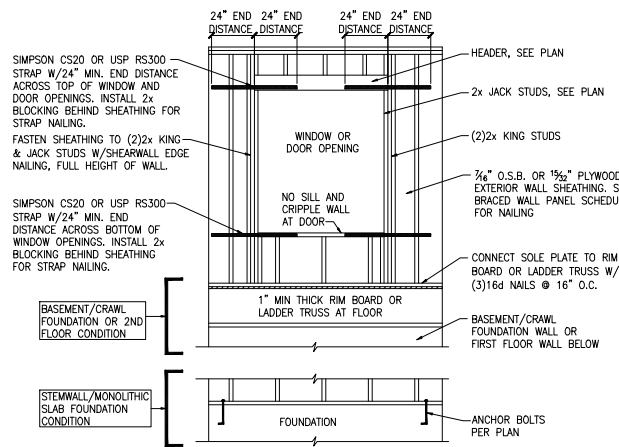
SD-2



**A** METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION  
ONE BRACED WALL SEGMENT



**B** METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION  
TWO BRACED WALL SEGMENTS



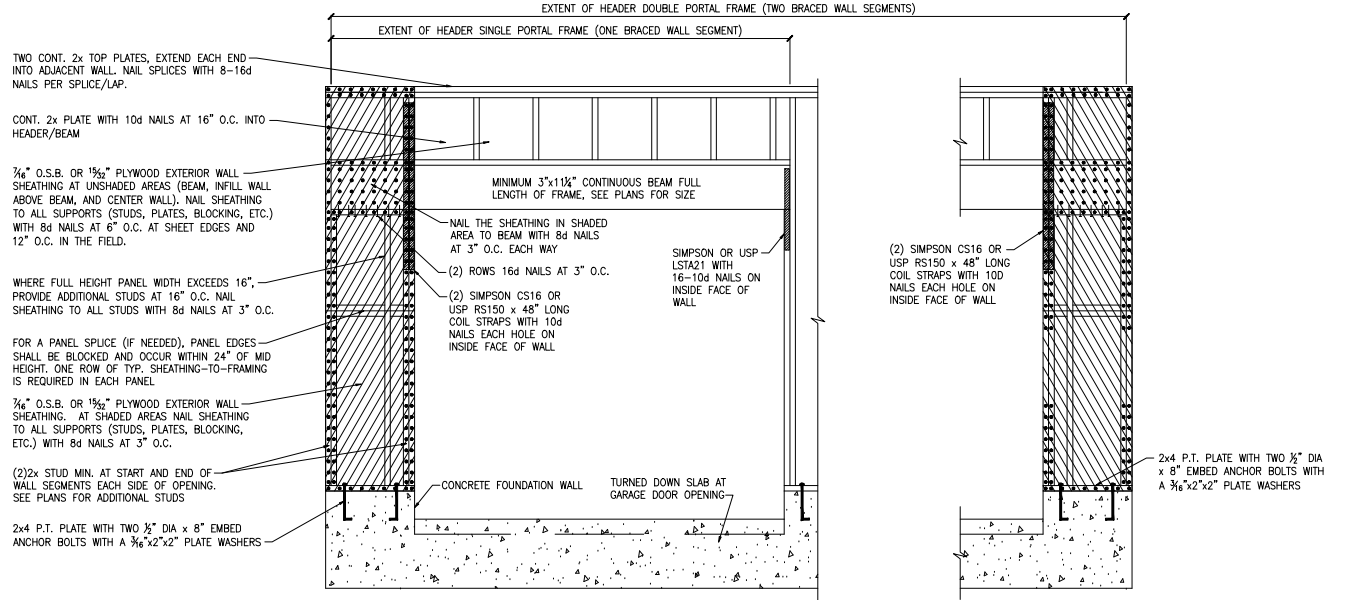
**C** WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL  
ONLY REQUIRED WHERE SPECIFIED ON PLANS

BRACED WALL PANEL AND ENGINEERED SHEAR WALL SCHEDULE			
PANEL TYPES	PANEL TYPE	MATERIAL	FASTENERS
WSP	INTERMITTENT WOOD STRUCTURAL PANEL	7/16" OSB	6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS
GB(1)	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.
GB(1)-4	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 4" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.
GB(2)	INTERMITTENT GYPSUM BOARD (SHEATHING BOTH FACES OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.
CS-WSP	CONTINUOUS SHEATHED WOOD STRUCTURAL PANEL	7/16" OSB	6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS
CS-PF	CONTINUOUS SHEATHED PORTAL FRAME	7/16" OSB	NAILING PER DETAIL
PFH	PORTAL FRAME WITH HOLD DOWNS	7/16" OSB	NAILING PER DETAIL
CS-ESW(1)	ENGINEERED SHEAR WALL, TYPE 1	7/16" OSB	8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS
CS-ESW(2)	ENGINEERED SHEAR WALL, TYPE 2	7/16" OSB	8D COMMON NAILS AT 4" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS
CS-ESW(3)	ENGINEERED SHEAR WALL, TYPE 3	7/16" OSB	8D COMMON NAILS AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS

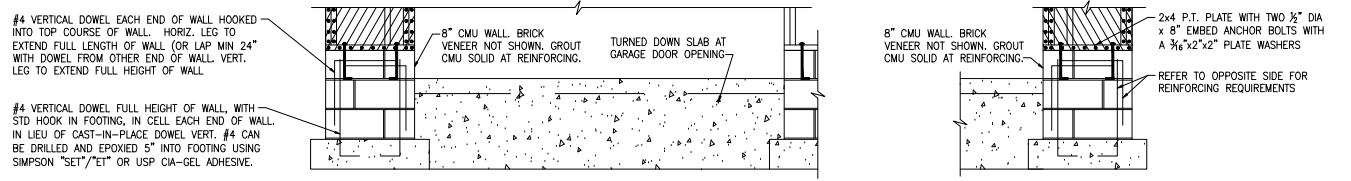
**BRACED WALL PANEL NOTES:**

- ALL BRACED WALL PANELS, EXCEPT GB(1) & GB(2), SHALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES.
- PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS.
- SEATH ALL EXTERIOR WALLS OF THE HOUSE WITH 3/4" O.S.B., OR 1/2" PLYWOOD, FASTENED PER IRC. AT EXTERIOR CORNERS, SHEATHING SHALL BE FASTENED PER KSE BRACED WALL DETAILS. AT INTERIOR WALL INTERSECTIONS, FASTEN STUDS & WALL BRACING PER KSE BRACED WALL DETAILS.
- BRACED WALL PANELS AND ENGINEERED SHEAR WALLS ARE PROVIDED PER IRC. PANEL LENGTHS SHOWN ON PLANS ARE THE MINIMUM LENGTH REQUIRED.

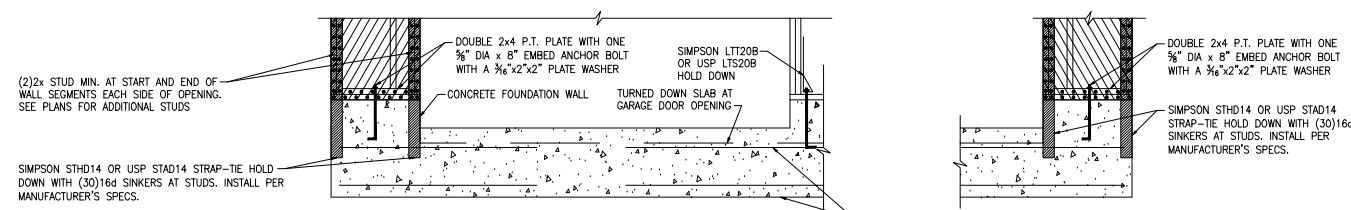




**A** METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION  
 MONOLITHIC SLAB OR BASEMENT FOUNDATION

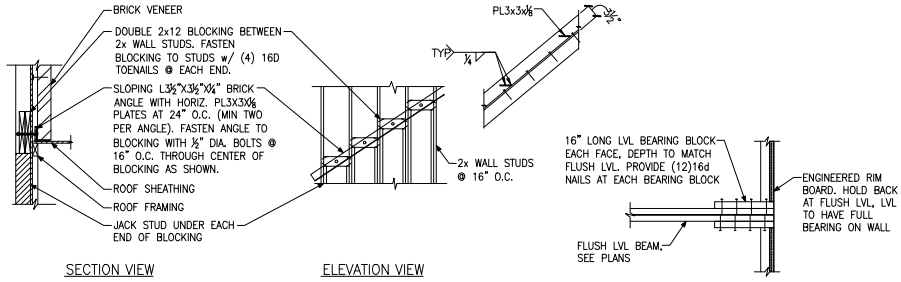


**B** METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION  
 STEMWALL SLAB OR CRAWL SPACE FOUNDATION



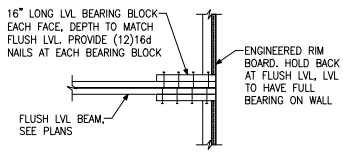
**C** METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS  
 MONOLITHIC SLAB OR BASEMENT FOUNDATION



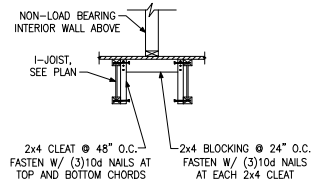


SECTION VIEW ELEVATION VIEW

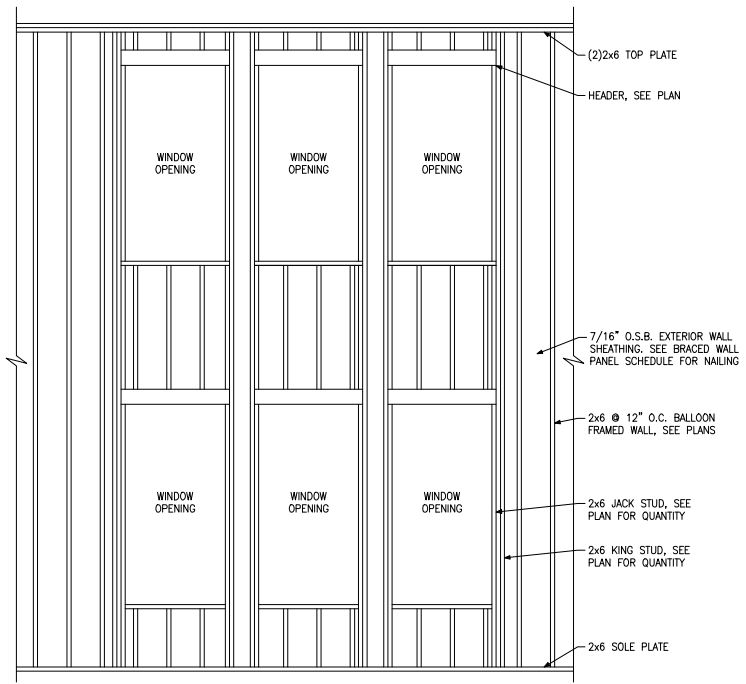
**A** BRICK LEDGER CONNECTION DETAIL



**B** BEARING ENHANCER FLUSH LVL



**C** I-JOIST LADDER BLOCKING AS REQUIRED @ PARALLEL WALLS



**D** BALLOON FRAMED WALL DETAIL N.T.S.

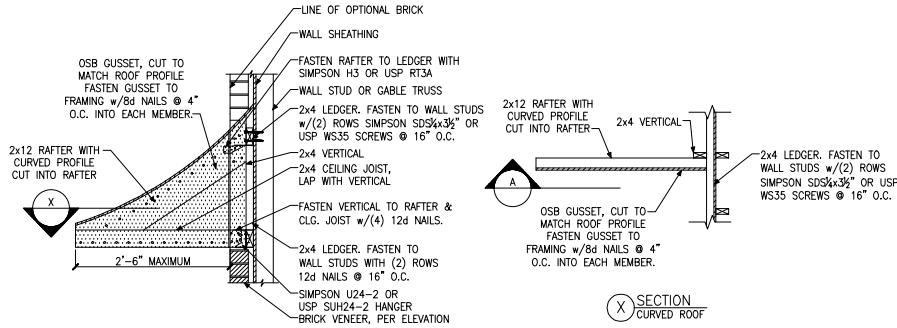


Miscellaneous Framing Details

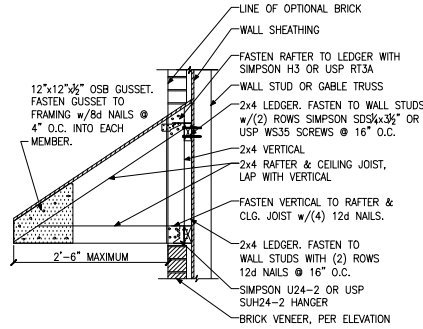
Up to 130 M.P.H.  
North Carolina

Project #: 105-19000  
Designed By: KRK  
Checked By:  
Issue Date: 1/1/19  
Re-Issue:  
Scale: 1/8"=1'-0" @ 11x17  
1/4"=1'-0" @ 22x34

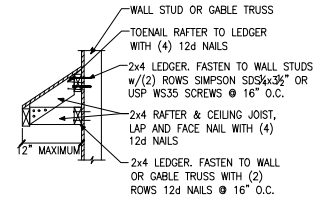




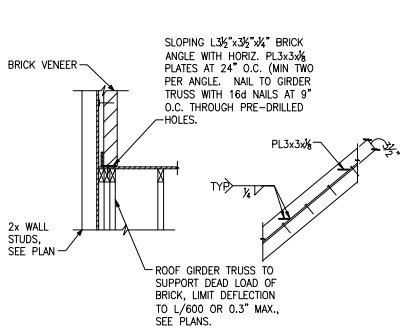
**A** PENT ROOF DETAIL  
CURVED ROOF



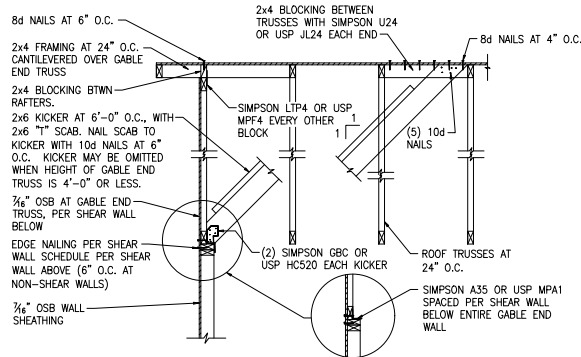
**B** PENT ROOF DETAIL  
STRAIGHT ROOF



**C** EYEBROW ROOF DETAIL  
STRAIGHT ROOF



**D** TRUSS DETAIL



**E** GABLE END WALL DETAIL

