

McMillan Design
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 www.mcmillan-design.com

ICG Homes

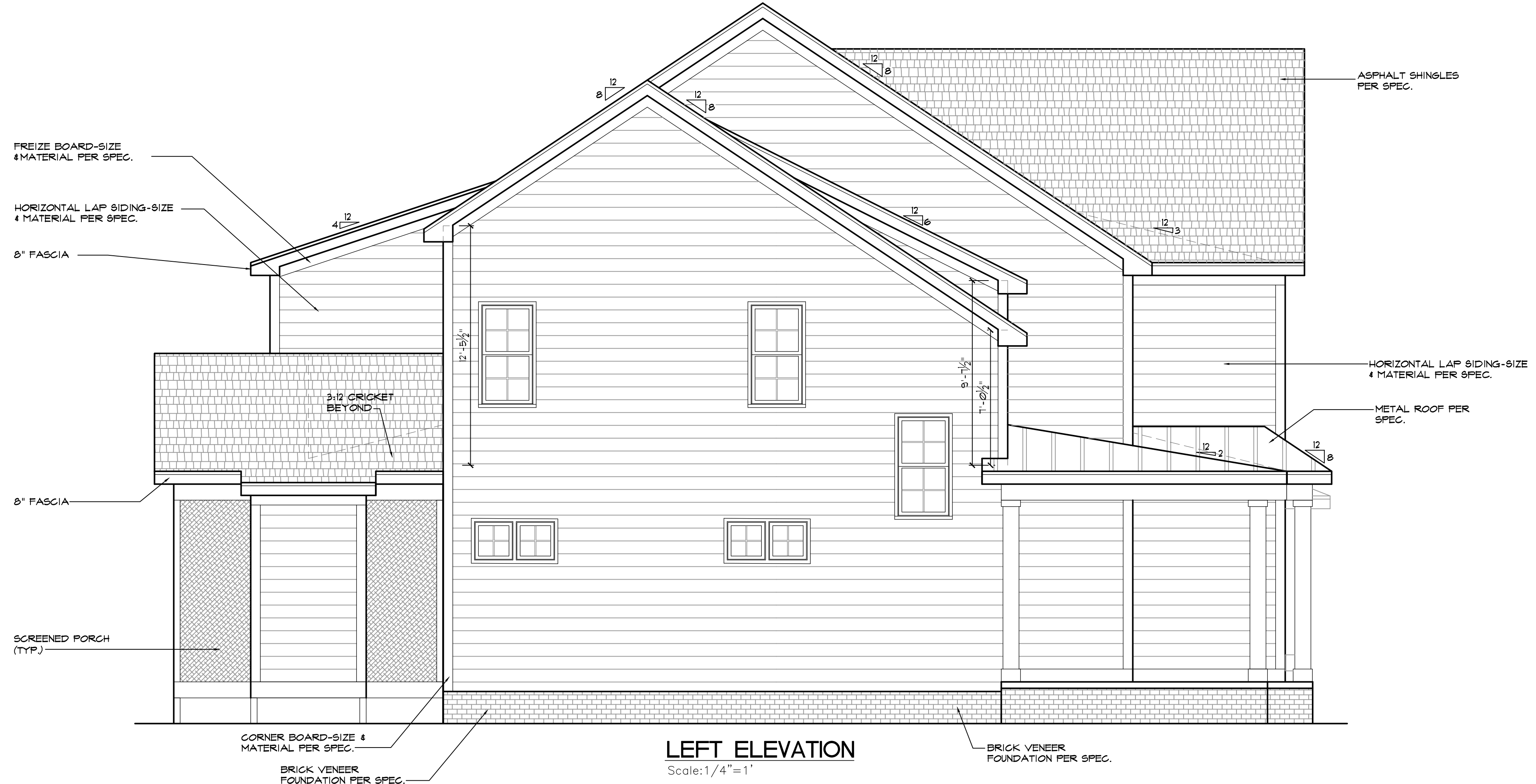
Sheet Title:
FRONT & LEFT ELEVATIONS

REVISIONS	
NUMBER	DATE

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Plan Number
M213-21
 Sheet No. **A1**
 Drawn By: **TB**
 Date: **08-31-21**

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ELEVATION NOTES

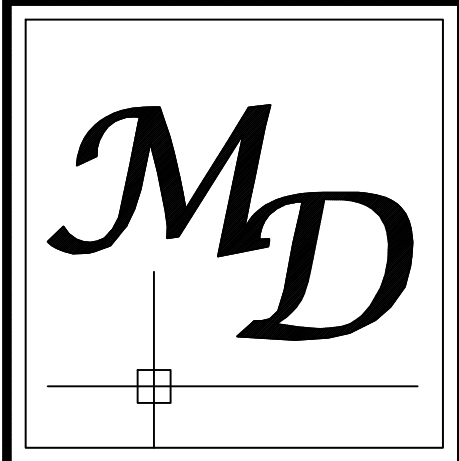
BUILDING CODES:
 THIS PLAN HAS BEEN DESIGNED UNDER THE NC BUILDING CODES, 2008 RESIDENTIAL EDITION.

ICE GUARDS:
 ICE GUARD & WATER SHIELD REQUIRED ON ALL ROOF SLOPES 4:12 & LESS PER NCREC

VENTING CALCULATIONS:

CRAWL SPACE:
 THE MIN. NET FREE AREA OF CRAWL VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SQ. FT. FOR EACH 150 SQ. FT. OF CRAWL SPACE AREA.
 1821 SQ. FT. CRAWL SPACE AREA / 150 = 12.14 SQ. FT. NET FREE AREA REQUIRED
 *MAY BE REDUCED BY 50% W/ VAPOR BARRIER

ATTIC:
 3272 SQ. FT. OF ATTIC / 300 = 10.91 SQ. FT. OF INLET AND OUTLET.
 VENTILATION MAY BE REDUCED 50% WHEN VENTILATORS ARE USED AT LEAST 3'-0" ABOVE THE CORNICE VENTS.



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Sheet Title:
REAR / RIGHT ELEVATIONS

REVISIONS	
NUMBER	DATE

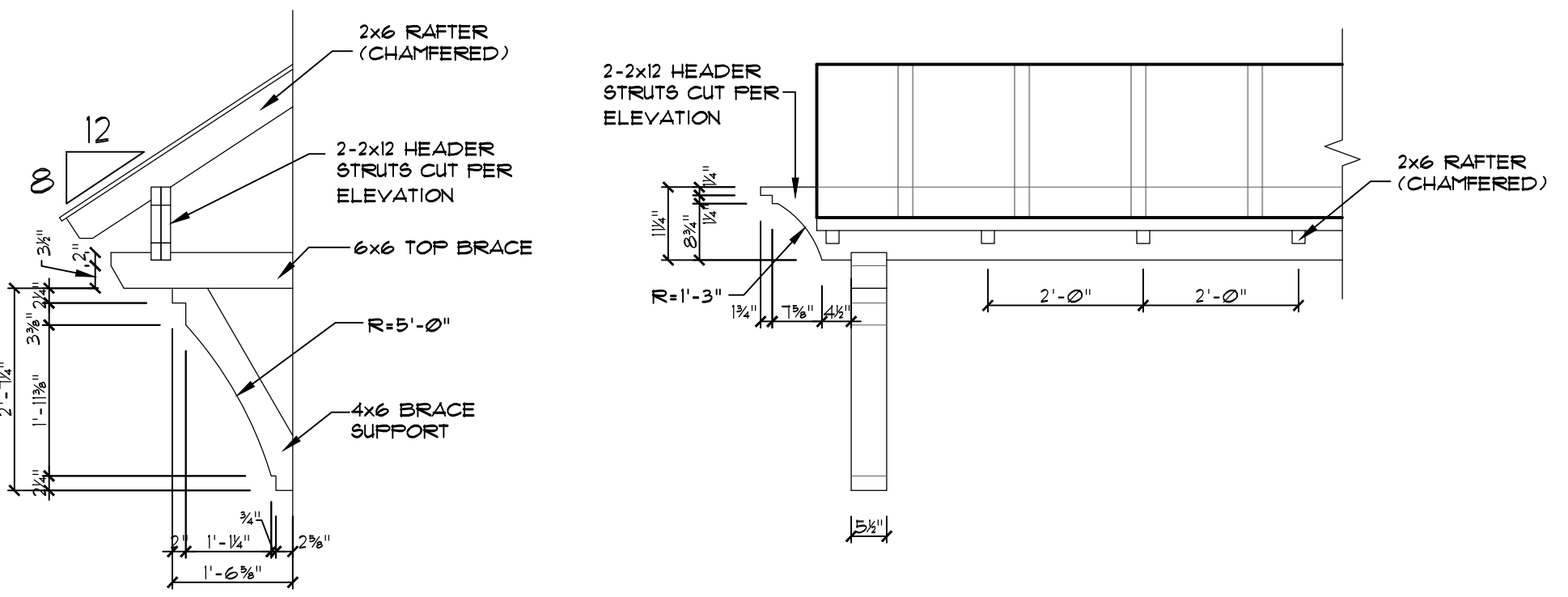
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 Sheet No. **A2**
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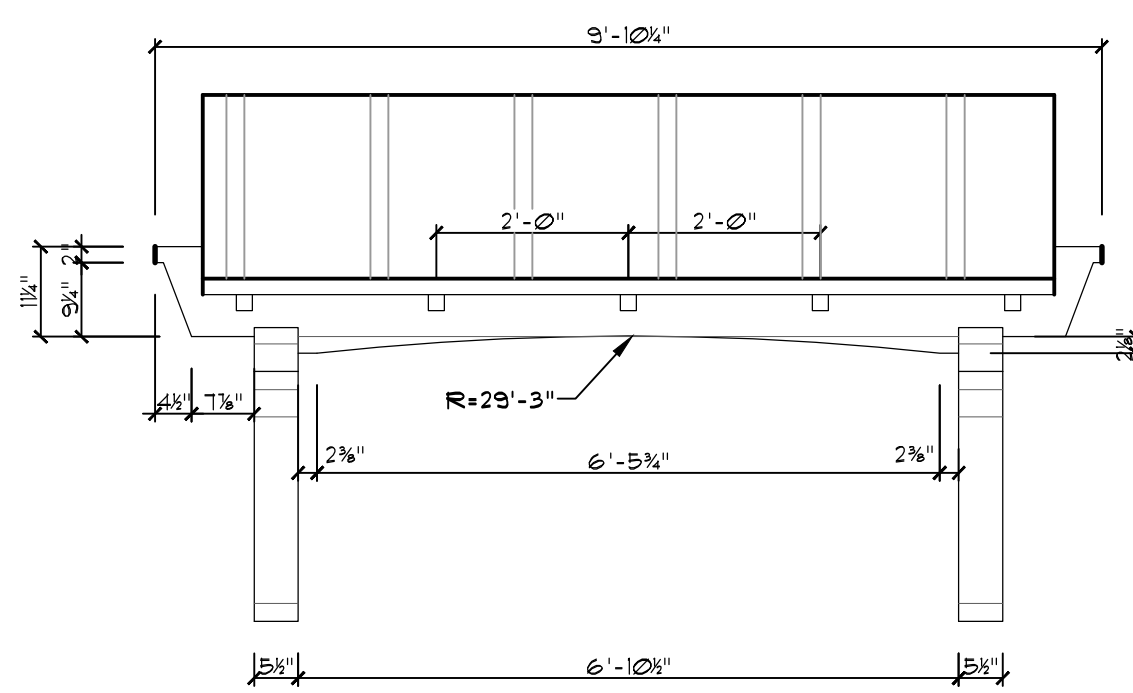


REAR ELEVATION
 Scale: 1/4" = 1'



AWNING PROFILE
 Scale: 1/2" = 1'

GARAGE AWNING
 Scale: 1/2" = 1'



GARAGE AWNING
 Scale: 1/2" = 1'

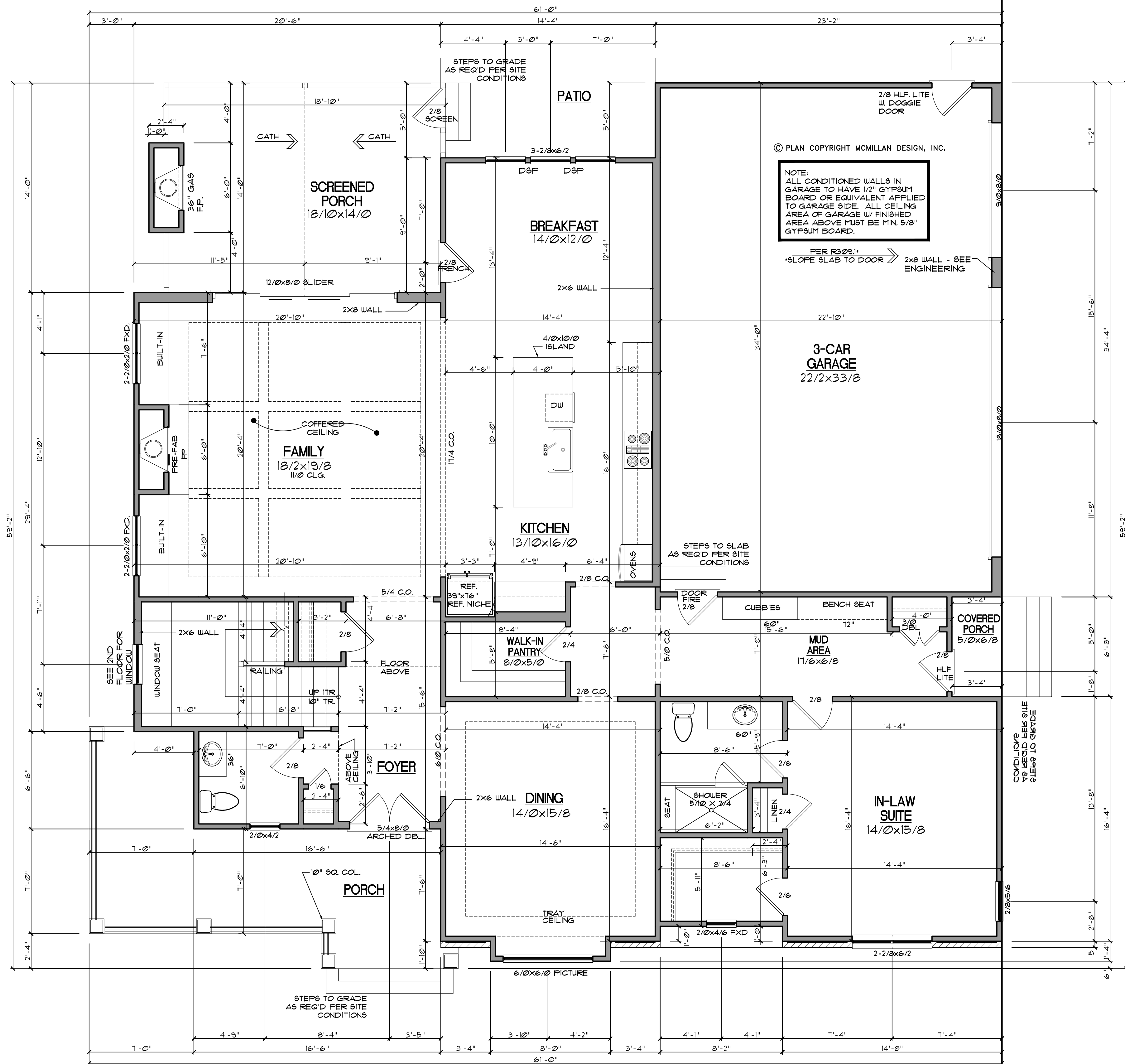


RIGHT ELEVATION
 Scale: 1/4" = 1'



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NOTE:
 ALL CONDITIONED WALLS IN GARAGE TO HAVE 1/2" GYPSUM BOARD OR EQUIVALENT APPLIED TO GARAGE SIDE. ALL CEILING AREA OF GARAGE W/ FINISHED AREA ABOVE MUST BE MIN. 5/8" GYPSUM BOARD.

PER R302.1
 SLOPE SLAB TO DOOR → 2x8 WALL - SEE ENGINEERING

GENERAL NOTES

WALLS:
 ALL WALLS ARE DRAWN 4" THICK UNLESS NOTED OTHERWISE. ANGLED WALL ARE DRAWN @45° UNO.

SMOKE DETECTORS:
 LOCATION AND NUMBER OF DETECTORS SHALL CONFORM TO NEC.

EGRESS:
 ALL BEDROOMS MUST HAVE AT LEAST ONE WINDOW WHICH CONFORMS TO R-310 OF THE N.C. BLDG. CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY CHOSEN WINDOWS MEET EGRESS REQUIREMENTS AS MANUFACTURERS VARY.

ATTIC ACCESS:
 MIN. ATTIC ACCESS SHALL BE PROVIDED BY BUILDER AND LOCATED ON SITE.

WALL/CEILING HGT.
 WALL AND CEILING HEIGHT NOTES ARE BASED ON NOMINAL WALL SIZE. KNEE WALL HEIGHT LABELS FOR WALLS UNDER RAFTERS ASSUME AN EXTRA 2" FOR FURRING (IN HEATED SPACES) FOR INSULATION. THE WALL HEIGHT REFERS TO THE HGT. FROM THE FLOOR DECKING TO THE BOTTOM OF THE FURRING.

SQUARE FOOTAGE

Heated Square Footage	
First Floor	1,988.2
Second Floor	2,297.0
	4,285.1

Unheated Square Footage	
Garage	779.7
Porch	231.9
Screened Porch	266.7
Side Porch	33.4
Walk up attic	749.4
Walk-In Storage (attic)	441.1

FIRST FLOOR
 SCALE: 1/4"=1'

Sheet Title:
FIRST FLOOR PLAN

REVISIONS	
NUMBER	DATE

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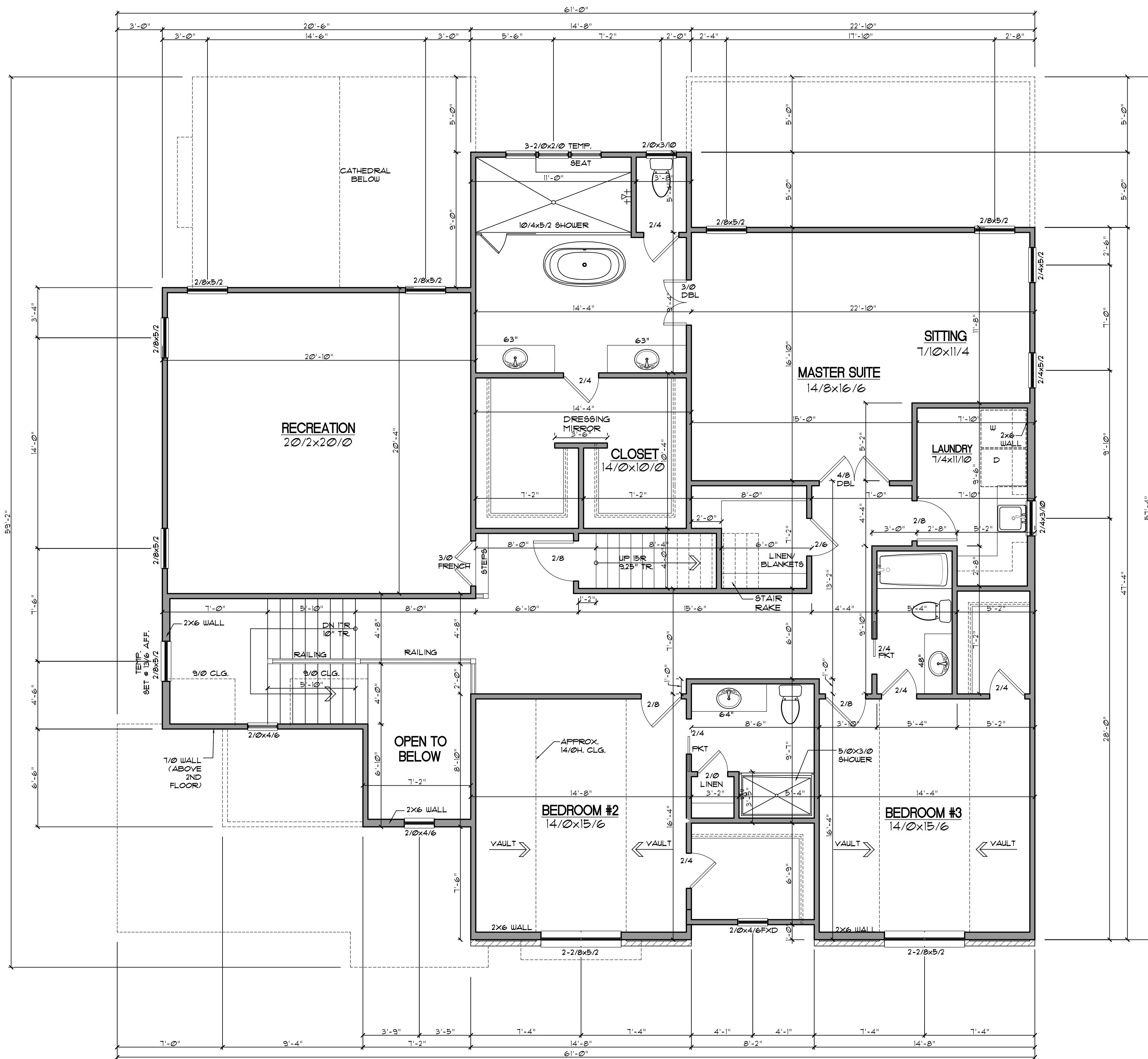
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Sheet Title:
SECOND FLOOR PLAN

REVISIONS	
NUMBER	DATE

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M213-21
 Sheet No. **A4**
 Drawn By: **TB**
 Date: **08-31-21**



GENERAL NOTES

WALLS:
 ALL WALLS ARE DRAWN 4" THICK UNO.
 ANGLED WALL ARE DRAWN #45° UNO.

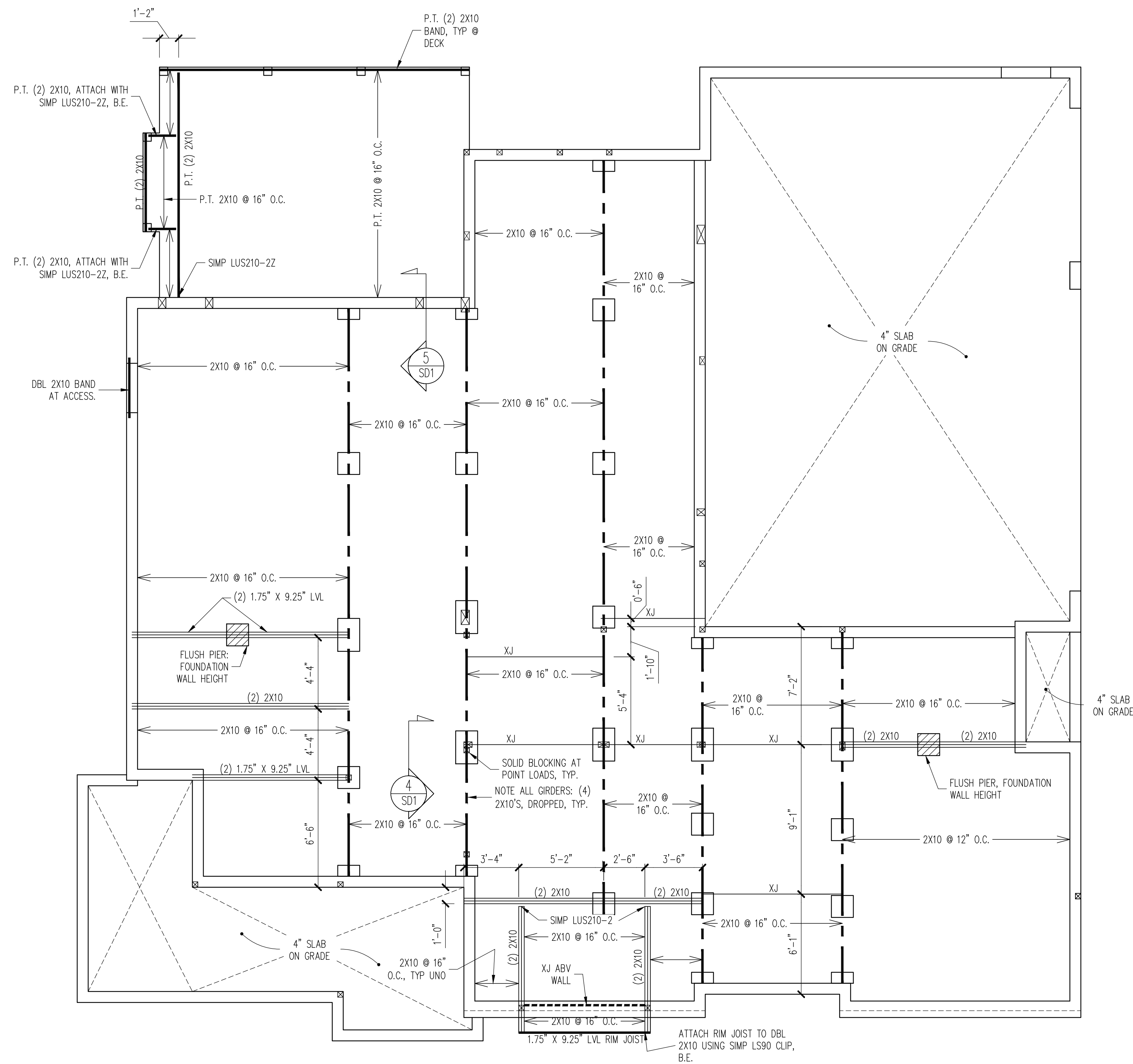
SMOKE DETECTORS:
 LOCATION AND NUMBER OF DETECTORS SHALL CONFORM TO NEC.

EGRESS:
 ALL BEDROOMS MUST HAVE AT LEAST ONE WINDOW WHICH CONFORMS TO R-310 OF THE NC. BLDG. CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY CHOSEN WINDOWS MEET EGRESS REQUIREMENTS AS MANUFACTURERS VARY.

ATTIC ACCESS:
 MIN. ATTIC ACCESS SHALL BE PROVIDED BY BUILDER AND LOCATED ON SITE.

WALL/CEILING HGT.
 WALL AND CEILING HEIGHT NOTES ARE BASED ON NOMINAL WALL SIZE.
 KNEE WALL HEIGHT LABELS FOR WALLS UNDER RAFTERS ASSUME AN EXTRA 2" FOR FURRING (IN HEATED SPACES) FOR INSULATION. THE WALL HEIGHT REFERS TO THE HGT. FROM THE FLOOR DECKING TO THE BOTTOM OF THE FURRING.

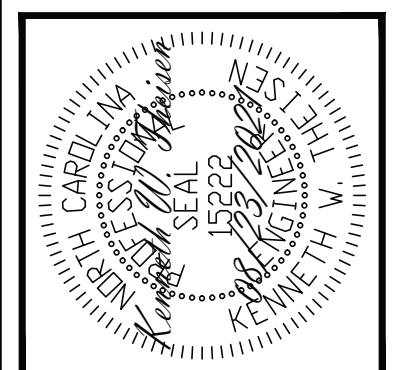
SECOND FLOOR
 SCALE: 1/4"=1'



CRAWL SPACE FRAMING PLAN
1/4" = 1'-0"

STRUCTURAL ENGINEERS
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Engineering Tech
ASSOCIA TES, P. A.



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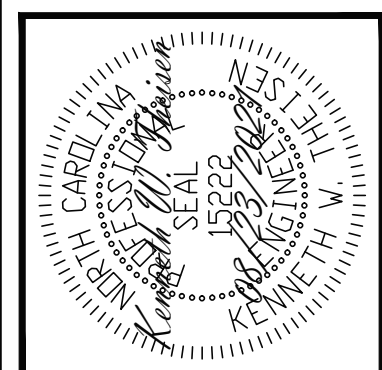
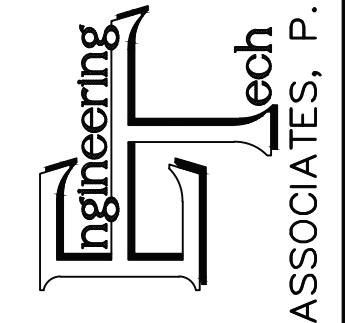
CLIENT:	INNOVATIVE CONSTRUCTION GROUP
SCOPE:	STRUCTURAL ADDENDUM
LOT #:	ENG: KWT/TRB
REV:	REV:
DATE:	08/23/2021

PLAN NO.
M213-21

PROJECT NO.
21-21-209

SHEET NO.
S2

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REV:	REV:
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PLAN NO.
M213-21

PROJECT NO.
21-21-209

SHEET NO.
S3

CONSTRUCTION SPECIFICATIONS
 INSTANT REFERENCES

REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION:

PART 1.01: CURRENT GOVERNING CODE

PART 14: STUD SUPPORT FOR BEAMS

PART 17: KING STUDS FOR EXTERIOR WALLS

SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS

LINTEL SCHEDULE

L1	L 3 1/2 X 3 1/2 X 1/4 TYP UNO
L2	L 5 X 3 1/2 X 5/16
L3	L 6 X 4 X 5/16 ATTACHED TO HEADER WITH (2) 1/2" X 3" LAG SCREWS @ 16" O.C.
L4	16 GAGE STEEL FLEX LINTEL AT ARCH

WALL BRACING

SHADED WALLS:

ALL EXTERIOR STUD WALLS, EXTERIOR SIDE, ARE TO BE CONTINUOUSLY SHEATHED WITH 7/16 APA RATED OSB NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD.

WSP - ONE SIDE OF INTERIOR WALL OR INSIDE OF EXTERIOR WALL WITH 3/8" MIN. THICKNESS WOOD STRUCTURAL PANELING. ATTACH WSP TO STUD WALL WITH 8d NAILS @ 4" O.C. AT PANEL EDGES, 8" O.C. IN PANEL FIELD.

GB - INTERIOR BRACED WALL 1/2" GB SECURED PER TABLE R602.10.2 OF THE 2018 NCRBC. (FASTENERS @ 7" O.C.) BOTH SIDES OF WALL OR (FASTENERS @ 4" O.C.) ONE SIDE OF WALL AT STAIRS

2X - SHEATH BOTH SIDES OF STUD WALL WITH 7/16 APA RATED OSB, NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD.

NOTES:
 PROVIDED CONTINUOUS SHEATHING = 242' MIN.

REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION.

HEADER SCHEDULE

H1	SINGLE 2X4 TURNED FLAT (A)
H2	(2) 2X4'S ON SINGLE JACKS (B)
H3	(2) 2X10'S ON SINGLE JACKS (C)
H4	(2) 1.75" X 9.25" LVL'S ON DBL JACKS
H5	(3) 2X10'S ON SINGLE JACKS

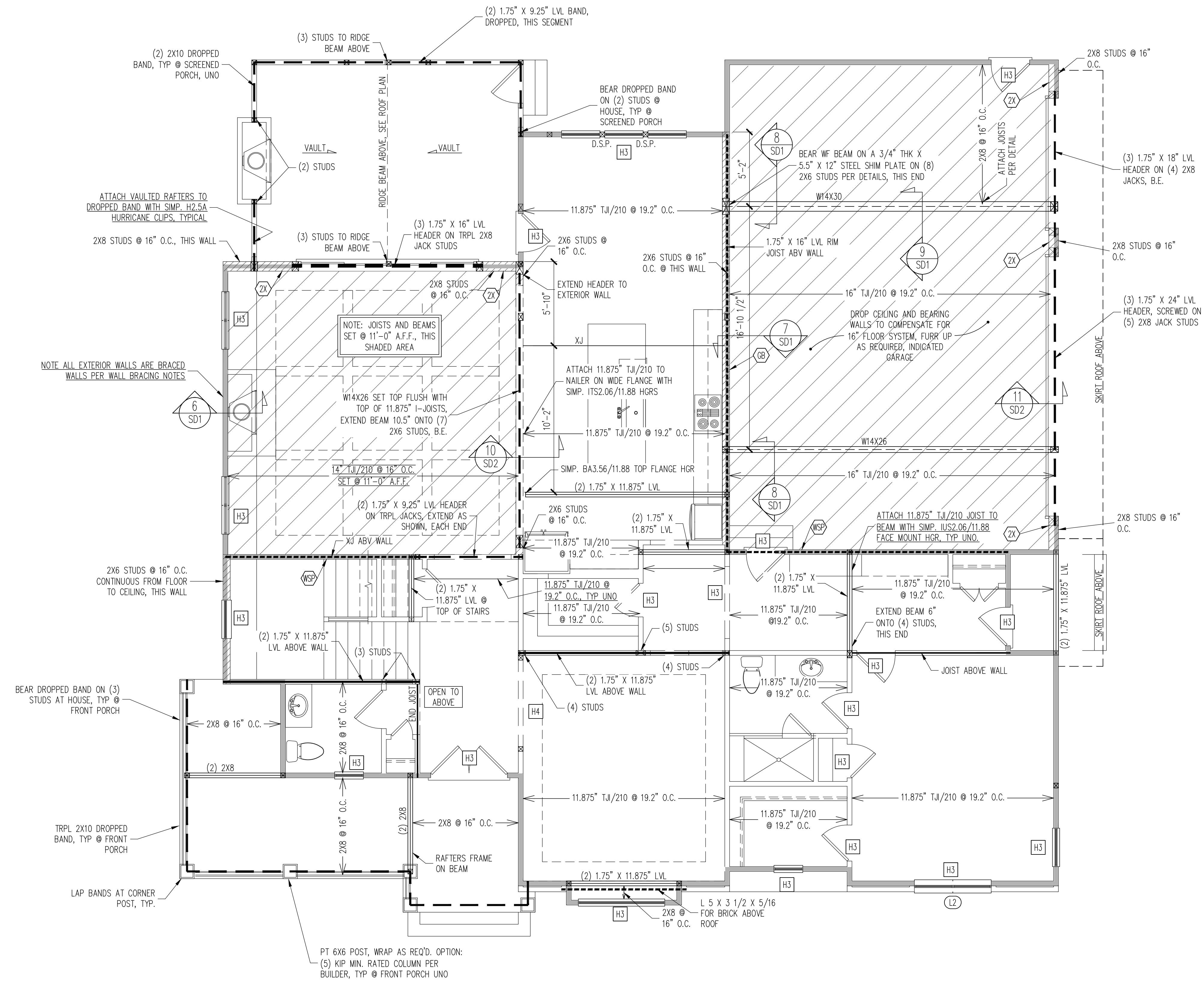
(A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 38" MAX.

(B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" TO 74" MAX.

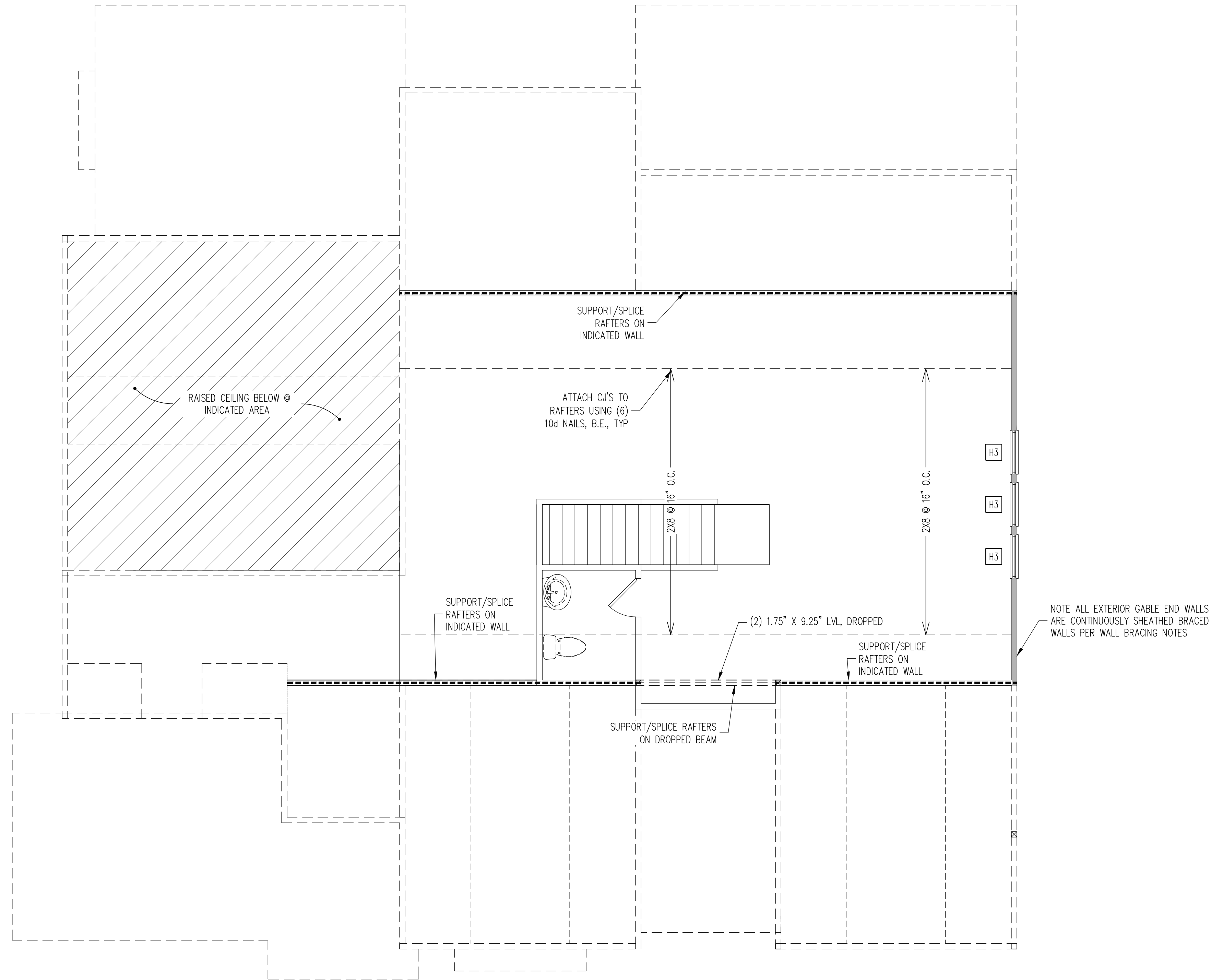
(C) TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO.

NOTES:
 -HEADERS IN NON LOAD BEARING INTERIOR WALLS ARE NOT LABELED.

1ST FLOOR FRAMING PLAN
 WALLS AND CEILING
 1/4" = 1'-0"



PT 6X6 POST, WRAP AS REQ'D. OPTION:
 (5) KIP MIN. RATED COLUMN PER BUILDER, TYP @ FRONT PORCH UNO



CONSTRUCTION SPECIFICATIONS
 INSTANT REFERENCES

REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION:

PART 1.01: CURRENT GOVERNING CODE

PART 14: STUD SUPPORT FOR BEAMS

PART 17: KING STUDS FOR EXTERIOR WALLS

SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS

WALL BRACING

SHADED WALLS:

ALL EXTERIOR STUD WALLS, EXTERIOR SIDE, ARE TO BE CONTINUOUSLY SHEATHED WITH 7/16 APA RATED OSB NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD.

NOTES:
 PROVIDED CONTINUOUS SHEATHING = 24" MIN.

REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION.

HEADER SCHEDULE

H1	SINGLE 2x4 TURNED FLAT (A)
H2	(2) 2x4'S ON SINGLE JACKS (B)
H3	(2) 2x10'S ON SINGLE JACKS (C)
H4	(2) 1.75" X 9.25" LVL'S ON DBL JACKS
H5	(3) 2x10'S ON SINGLE JACKS

(A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 38" MAX.

(B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" TO 74" MAX.

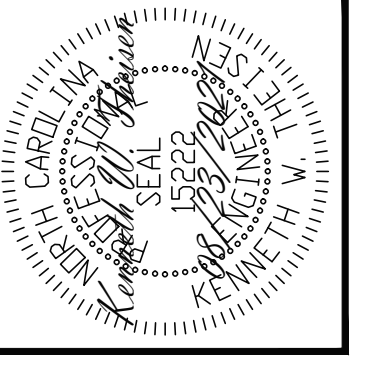
(C) TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UND.

NOTES:
 -HEADERS IN NON LOAD BEARING INTERIOR WALLS ARE NOT LABELED.

WALK-UP ATTIC FRAMING PLAN
 WALLS AND CEILING
 1/4" = 1'-0"

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Engineering Tech ASSOCIATES, P.A.



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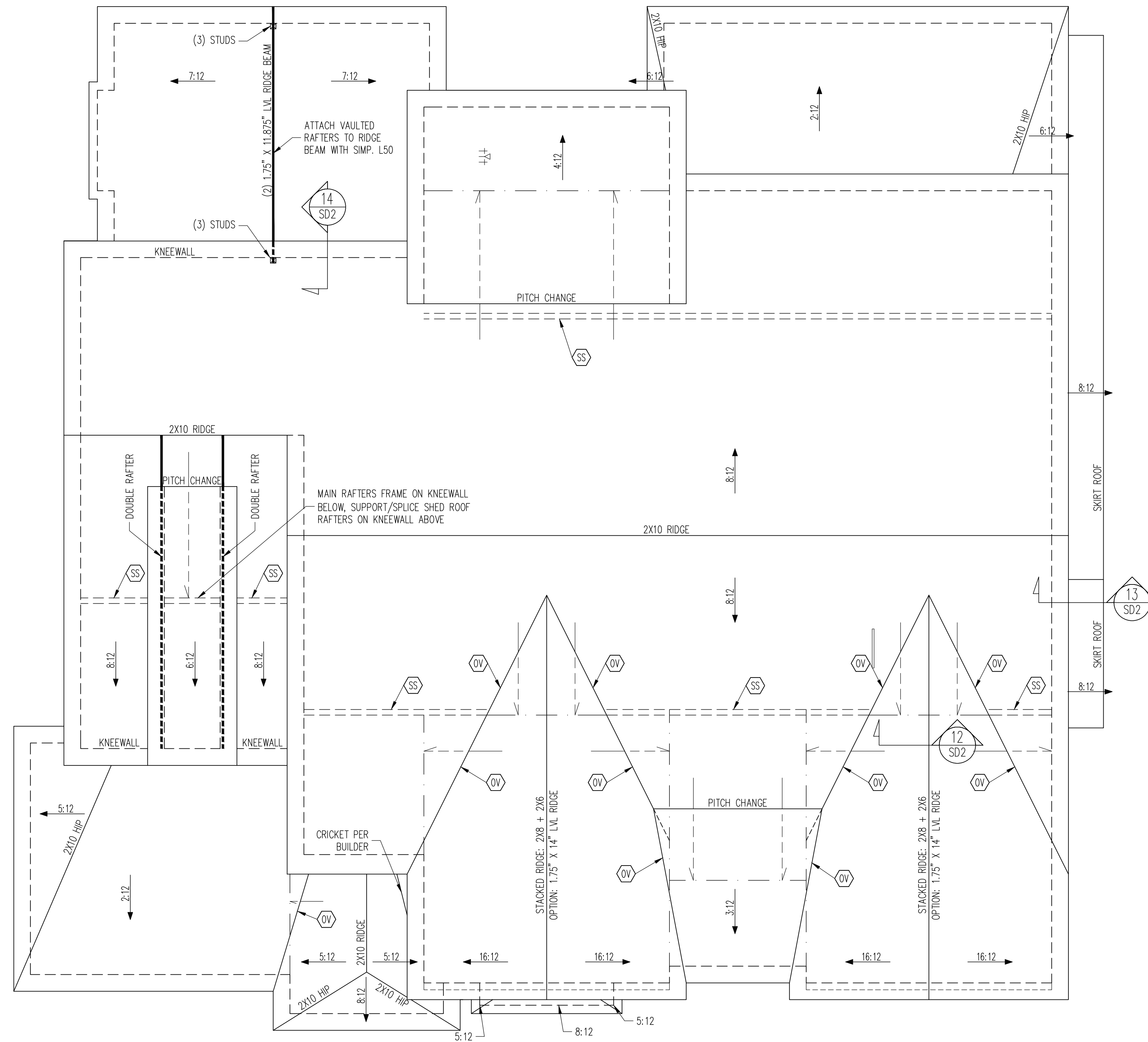
CLIENT:	INNOVATIVE CONSTRUCTION GROUP
SCOPE:	STRUCTURAL ADDENDUM
LOT #:	ENG: KWT/TRB
REV:	REV:
DATE:	08/23/2021

PLAN NO.
 M213-21

PROJECT NO.
 21-21-209

SHEET NO.
 S5

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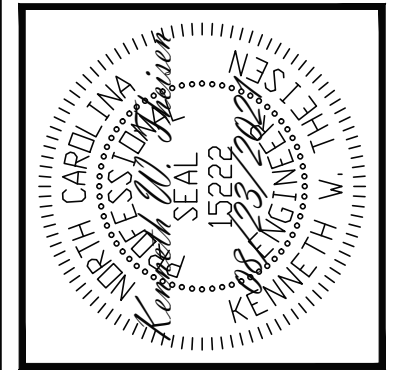
FRAMING NOTES
 ROOF ONLY
 -COMMON RAFTERS 2X8 @ 16" O.C. TYP. U.N.O.
 -COLLAR TIES 2X4 EVERY 3RD SET OF RAFTERS TYP. U.N.O.
 -ROOF PITCHES 12:12 TYP. U.N.O.
 -VERIFY ROOF PITCHES, OVERHANG LENGTHS, AND KNEEWALL FRAMING HGTS WITH ARCHITECTURAL DRAWINGS, TYPICAL.

FRAMING SCHEDULE
 ROOF ONLY
 OV OVERFRAME VALLEY (2X10 SLEEPER)
 SB SUPPORT/SPLICE RAFTERS ON BEAM BELOW
 SK DBL 2X4 STIFF KNEE
 SS SUPPORT/SPLICE RAFTERS ON KNEEWALL BELOW

ROOF FRAMING PLAN
 1/4" = 1'-0"

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PLAN NO.
M213-21

PROJECT NO.
21-21-209

SHEET NO.
S6

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CONSTRUCTION SPECIFICATIONS

- PART 1: GENERAL
1.01 CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
1.02 DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.
1.05 METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR...

- 7.02 CLAY MASONRY UNITS SHALL CONFORM TO ASTM C62-17 GRADE SW
7.03 MORTAR SHALL BE TYPE S MORTAR AND GROUT SHALL CONFORM TO ASTM C476, MIN COMPRESSIVE STRENGTH OF 2000 PSI.
7.04 MASONRY CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF ACI 530
7.05 LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951, 6" MIN LAPS FOR CONTINUOUS WALL APPLICATIONS.

Table with 4 columns: USE, LIVE LOAD (PSF), DEAD LOAD (PSF). Rows include BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS, GARAGES (PASSENGER CARS ONLY), ATTICS (NO STORAGE, LESS THAN 5' HEADROOM), ATTICS (WITH STORAGE), ROOF.

- PART 8: BOLTS AND LAG SCREWS
8.01 BOLTS SHALL CONFORM TO ASTM A307 MINIMUM GRADE TYP UNO, INSTALL STANDARD STEEL WASHERS (ASTM F844-07a) FOR THE NUT / BOLT HEAD WHEN BOLTING WOOD MEMBERS. HOLES FOR BOLTS SHALL BE AISC STANDARD HOLES UNO
8.02 LAG SCREWS SHALL CONFORM TO ANS/ASME STANDARD B18.21-1981. PILOT HOLES SHALL BE USED FOR LAG SCREW INSTALLATION AND SHALL BE BORED ACCORDING TO NDS SPECIFICATIONS. INSTALL STANDARD STEEL WASHERS (ASTM F844-07a) FOR SCREW HEAD

- 2.02 INTERIOR WALLS: 5 PSF LATERAL.
2.03 BASIC WIND DESIGN VELOCITY OF 120 MPH.
2.04 SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE).

- PART 10: DIMENSIONAL LUMBER
10.01 SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SPRUCE PINE FIR OR SYP #2 FOR JOISTS, RAFTERS, GIRDERS, BEAMS, STUDS, ETC.
PART 11: ENGINEERED LUMBER
11.01 LVL OR PSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS:

- PART 3: STRUCTURAL STEEL
3.01 WIDE FLANGE BEAMS AND TEE SECTIONS SHALL CONFORM TO ASTM A992 MINIMUM GRADE.
3.02 SQUARE AND RECTANGULAR TUBING SHALL CONFORM TO ASTM A500 GRADE B MINIMUM GRADE.
3.03 STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B, TYPE S, MINIMUM GRADE
3.04 ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 MINIMUM GRADE

- 11.02 LVL OR PSL MEMBERS MAY BE RIPPED FROM DEEPER MEMBERS TO MATCH THE MEMBER DEPTH SPECIFIED IN THE PLANS
PART 12: PRESSURE TREATED LUMBER
12.01 LUMBER IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD C-15. ALL OTHER EXPOSED LUMBER SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARD C-2 OR BY ANY METHOD GIVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL DECAY RESISTANT WOOD PER SECTION 19-6(a)

- 3.05 STRUCTURAL STEEL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
PART 4: WELDING
4.01 WELDING ELECTRODES SHALL BE E70XX AND ALL WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER

- PART 13: STEEL FLITCH PLATE BEAMS
13.01 FLITCH PLATE BEAMS SHALL CONSIST OF A CONTINUOUS STEEL PLATE BOLTED BETWEEN TWO PICES OF CONTINUOUS LUMBER AS SIZED ON THE PLANS. BOLT PICES TOGETHER USING 1/2" DIA BOLTS SPACED AT 16" O.C. STAGGERED TOP TO BOTTOM OF THE BEAM. MAINTAIN A 2" EDGE DISTANCE. PLACE TWO BOLTS, ONE ABOVE THE OTHER, 16" MAX FROM EACH END OF THE BEAM. TYP UNO.

- PART 5: CONCRETE AND SLABS ON GRADE
5.01 CAST IN PLACE CONCRETE SHALL BE OF NORMAL WEIGHT, 4-6% AIR ENTRAINMENT, FOR EXTERIOR CONCRETE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP UNO. ALL ITEMS NOTED AS 'CONCRETE' ARE TO BE CAST IN PLACE, TYP UNO.
5.02 REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION.

- PART 14: STUD SUPPORTS FOR BEAMS
14.01 STEEL ENGINEERED LUMBER, AND FLITCH PLATE BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:
1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED AND SHALL BE SUPPORTED BY A MINIMUM OF THREE GANGED STUDS, OR A GANGED STUD COLUMN WITH A NUMBER OF STUDS SUCH THAT THE STUD COLUMN IS AT LEAST AS WIDE AS THE TRUE WIDTH OF THE BEAM BEING SUPPORTED, WHICHEVER IS GREATER, TYP UNO. FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM.

- 5.03 SLABS ON GRADE, IF ANY, SHALL BE CAST IN PLACE, CONTAIN SYNTHETIC POLYPROPYLENE FIBRILLATED MICRO FIBERS, FIBER LENGTH 1 1/2", DOSAGE RATE 1 1/2 LBS/50 YD. SLAB TO BE PLACED ON A 6 MIL VAPOR BARRIER ON 4" MIN GRANULAR FILL ON SOIL WITH 90% MIN STANDARD PROCTOR DENSITY. VAPOR BARRIER MAY BE OMITTED FOR SLABS NOT IN ENCLOSED AREAS.
PART 6: REBAR AND WIRE REINFORCEMENT
6.01 REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP UNO
6.02 LAP SPLICES SHALL BE CLASS B AS DEFINED BY ACI 318, TYP UNO
6.03 WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064.

- 14.02 DIMENSIONAL LUMBER BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:
1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED (LESS 1 1/2" TO ALLOW FOR A CONTINUOUS RIM JOIST WHERE APPLICABLE) AND SHALL BE SUPPORTED BY A GANGED STUD COLUMN THE SAME WIDTH AS THE BEAM TYP UNO. (E.G. A TRIPLE 2X10 IS TO BE SUPPORTED BY (3) STUDS). FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM.
2-BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A MINIMUM OF 3" ONTO THE WALL AND BE SUPPORTED BY A TRPL STUD GANGED COLUMN TYP UNO.

- PART 7: MASONRY
7.01 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT,

- 17.01 KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:
NUMBER OF KING STUDS
MAX OPENING WIDTH 5'-0" 9'-0" 13'-0" 17'-0" 21'-0"
STUD SIZE 2X6 1 2 2 2 2
2X8 1 1 1 1 2

- 17.02 FOR WALL BRACING THE FOLLOWING SHALL APPLY:
-BLOCKING AT UNSUPPORTED PANEL EDGES IS REQUIRED TYP UNO
-WALL BRACING IS BY ENGINEERED DESIGN AND NOT PREScriptive PER SECTION 602.10 OF THE 2018 IBC. CONTINUOUS SHEATHING HAS BEEN PROVIDED, ALONG WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10 OF THE 2018 IBC HAS BEEN MET AND EXCEEDED.
-BRACED WALL PANELS SHALL BE FASTENED TO ANCHORAGE WITH TABLE 602.3(1) TO PROVIDE CONTINUOUS PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH NBC6 R602.3.5 AND R602.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS.
-MAY SUBSTITUTE WSP FOR CB
-SINGLE JOIST, CONTINUOUS RIM JOIST, OR BLOCKING OF EQUAL DEPTH IS REQUIRED ABOVE AND BELOW ALL BRACED WALLS. NAIL BLOCKING ABOVE WALL TO TOP PLATE AND 16" DIA NAILS @ 8" O.C. NAIL SOLE PLATE OF BRACED WALL TO BLOCKING BELOW WITH (3) 16d NAILS @ 16" O.C. BLOCKING AT HORIZONTAL JOINTS IN BRACED WALL LINES ONLY REQUIRED AT SHADDED WALLS, UNO.

- PART 17: KING STUDS
17.01 KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:
NUMBER OF KING STUDS
MAX OPENING WIDTH 5'-0" 9'-0" 13'-0" 17'-0" 21'-0"
STUD SIZE 2X6 1 2 2 2 2
2X8 1 1 1 1 2

- 17.02 FOR WALL BRACING THE FOLLOWING SHALL APPLY:
-BLOCKING AT UNSUPPORTED PANEL EDGES IS REQUIRED TYP UNO
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-BRACED WALL PANELS SHALL BE FASTENED TO ANCHORAGE WITH TABLE 602.3(1) TO PROVIDE CONTINUOUS PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH NBC6 R602.3.5 AND R602.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS.
-MAY SUBSTITUTE WSP FOR CB
-SINGLE JOIST, CONTINUOUS RIM JOIST, OR BLOCKING OF EQUAL DEPTH IS REQUIRED ABOVE AND BELOW ALL BRACED WALLS. NAIL BLOCKING ABOVE WALL TO TOP PLATE AND 16" DIA NAILS @ 8" O.C. NAIL SOLE PLATE OF BRACED WALL TO BLOCKING BELOW WITH (3) 16d NAILS @ 16" O.C. BLOCKING AT HORIZONTAL JOINTS IN BRACED WALL LINES ONLY REQUIRED AT SHADDED WALLS, UNO.

- PART 18: SUBSTITUTIONS
18.01 MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN DEVIATIONS REQUIRE THE WRITTEN AUTHORIZATION OF THE DESIGNER. UNAUTHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
PART 19: OWNERSHIP OF STRUCTURAL DESIGN
19.01 THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY OF ENGINEERING TECH ASSOCIATES (ETA). THESE PLANS ARE FOR THE ONE TIME USE AT THE LOCATION INDICATED AND FOR THE CLIENT LISTED. ETA ASSUMES NO LIABILITY FOR THESE PLANS IF THEY ARE REPRODUCED, IN WHOLE OR IN PART, FOR CONSTRUCTION AT ANY OTHER LOCATION WITHOUT WRITTEN PERMISSION FROM ETA

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NOTES

THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE FOLLOWING CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION:
1) THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR
2) THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION
ANY ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE RESPONSIBILITY OF THE EOR. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE BUILDER TO ENSURE THAT ANY REVISIONS ISSUED BY THE EOR ARE PROMPTLY DISTRIBUTED TO THE SUBCONTRACTORS
THE EOR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING.
ROOF AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL TRUSS DRAWING SHOULD BE SUBMITTED TO THE EOR FOR REVIEW

ABBREVIATIONS

Table with 4 columns: ABBV, ABOVE, B, BOTH, B.E, BOTH ENDS, BTWN, BETWEEN, CIP, CAST IN PLACE, CONC, CONCRETE, CS, CONTINUOUS SHEATHING, DIA, DIAMETER, DBL, DOUBLE, DJ, DOUBLE JOIST, DSP, DBL STUD POCKET, EQ, EQUAL, EA, EACH, FLG, FLANGE, FL PL, FLITCH PLATE, FLR, FLOOR, FND, FOUNDATION, FTG, FOOTING, HDG, HOT DIPPED GALVANIZED, HGR, HANGER, LVL, LAMINATED VENEER LUMBER, NTS, NOT TO SCALE, O.C., ON CENTER, PSL, PARALLEL STRAND LUMBER, PT, PRESSURE TREATED, QJ, QUAD JOIST, SP, SPACE (OR SPACING), SSP, SINGLE STUD POCKET, SQ, SQUARE, T.J, TRIPLE JOIST, TYP, TYPICAL, TRPL, TRIPLE, TSP, TRIPLE STUD POCKET, UNO, UNLESS NOTED OTHERWISE, XU, EXTRA JOIST

ALLOWABLE I-JOIST SUBSTITUTION

Table with 5 columns: MANUFACTURER, DEPTH, SERIES, SIMPSON FACE MOUNT HGR, SIMPSON TOP FLANGE HGR. Rows include BLUELINK, BOISE CASCADE, INTERNATIONAL BEAMS, LP CORP, NORCIC, ROSEBURG, WEYERHAEUSER.

DECK SPECIFICATIONS

- 1. A DECK IS AN EXPOSED EXTERIOR WOOD FLOOR STRUCTURE WHICH MAY BE ATTACHED TO A STRUCTURE OR BE FREE STANDING. ROOPEF PORCHES, OPEN OR SCREENED IN, MAY BE CONSTRUCTED USING THESE PROVISIONS.
2. SUPPORT POSTS SHALL BE SUPPORTED BY A FOOTING.
3. WHEN ATTACHED TO A STRUCTURE, THE STRUCTURE TO WHICH ATTACHED SHALL HAVE A TREATED WOOD BAND FOR THE LENGTH OF THE DECK, OR CORROSION RESISTANT FLASHING SHALL BE USED TO PREVENT MOISTURE FROM COMING IN CONTACT WITH THE UNTRATED FRAMING OF THE STRUCTURE. THE DECK BAND AND THE STRUCTURE BAND SHALL BE CONSTRUCTED IN CONTACT WITH EACH OTHER EXCEPT AT BRICK VENEER AND WHERE PLYNWOOD SHEATHING IS REQUIRED AND PROPERLY FLASHED. SIDING SHALL NOT BE INSTALLED BETWEEN THE STRUCTURE AND THE DECK BAND. IF ATTACHED TO A BRICK STRUCTURE, NEITHER FLASHING NOR A TREATED BAND FOR THE BRICK STRUCTURE IS REQUIRED. IN ADDITION, THE TREATED DECK BAND SHALL BE CONSTRUCTED IN CONTACT WITH THE BRICK.

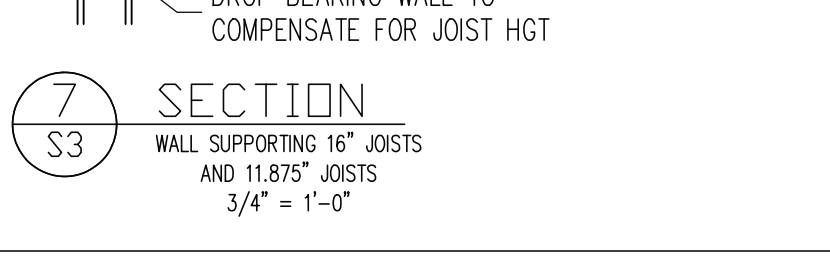
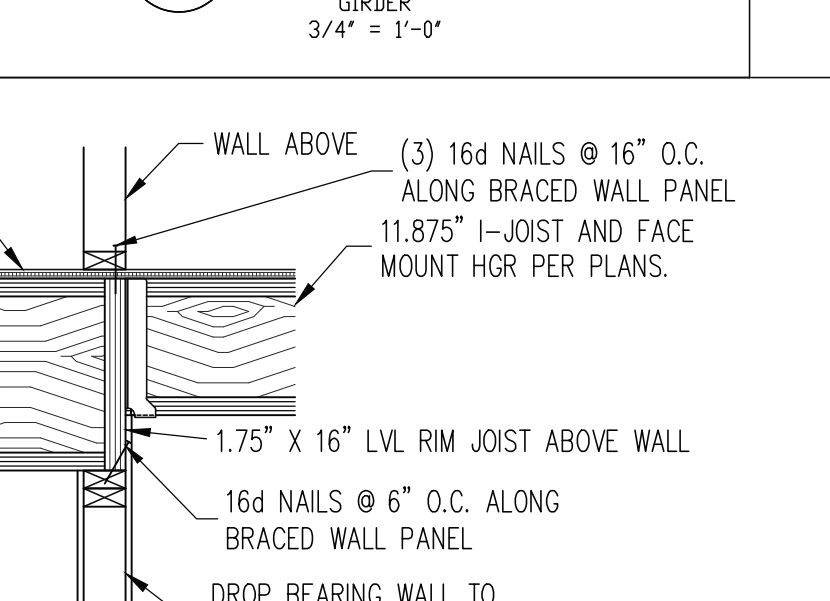
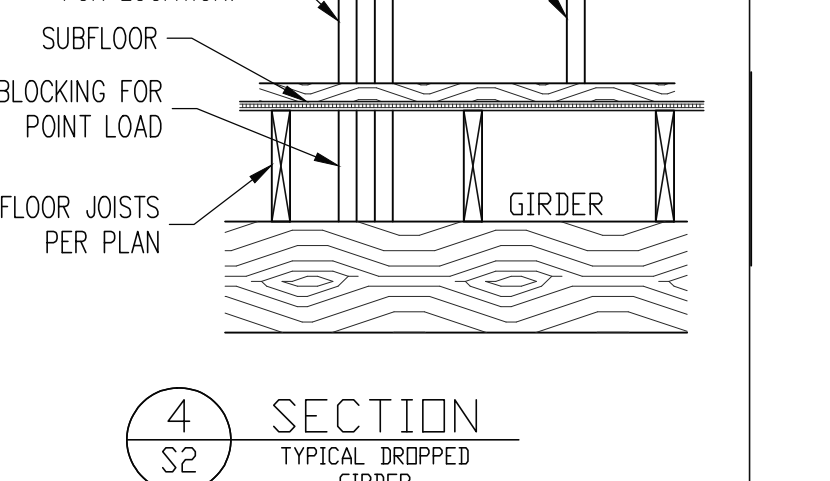
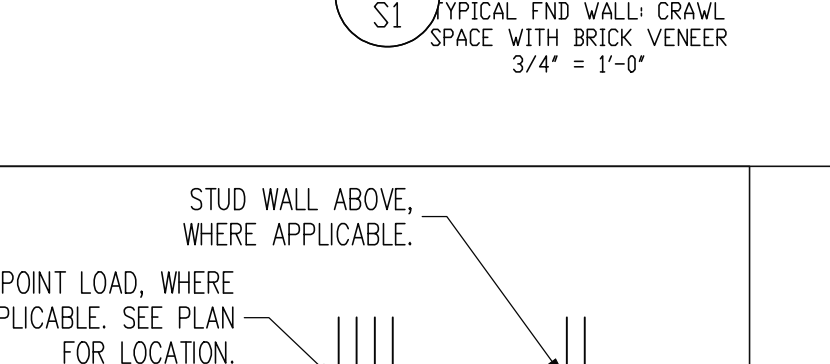
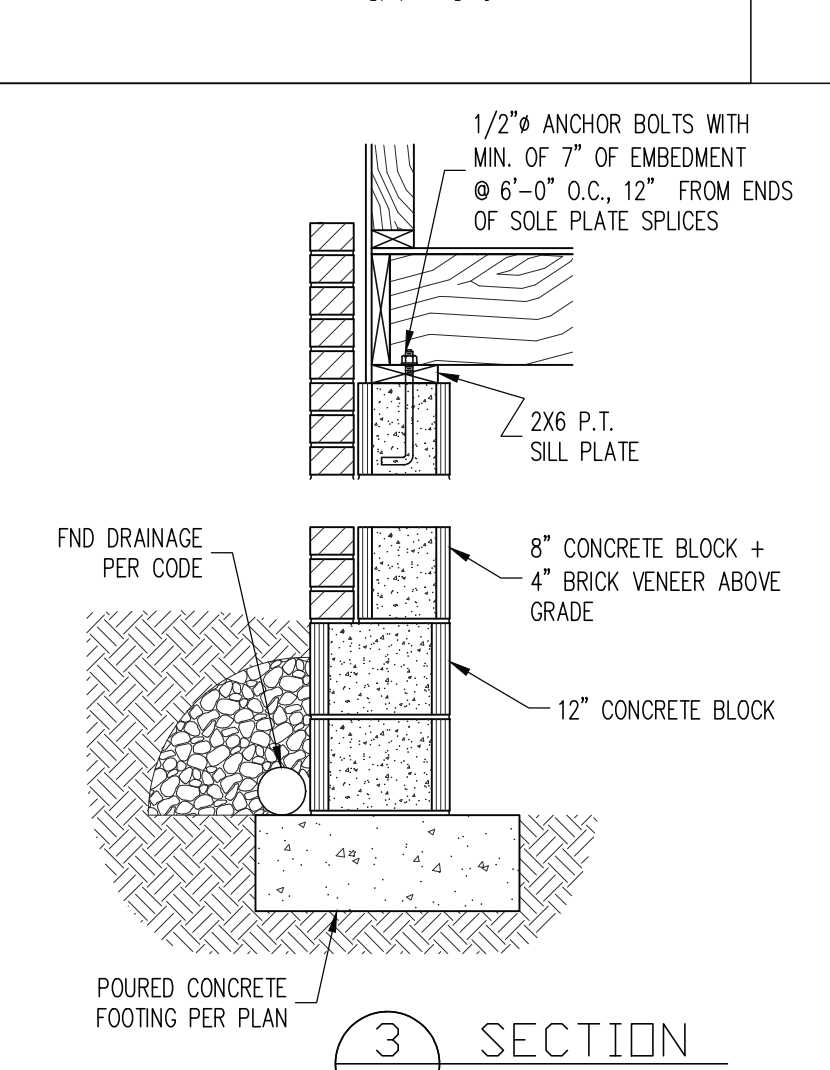
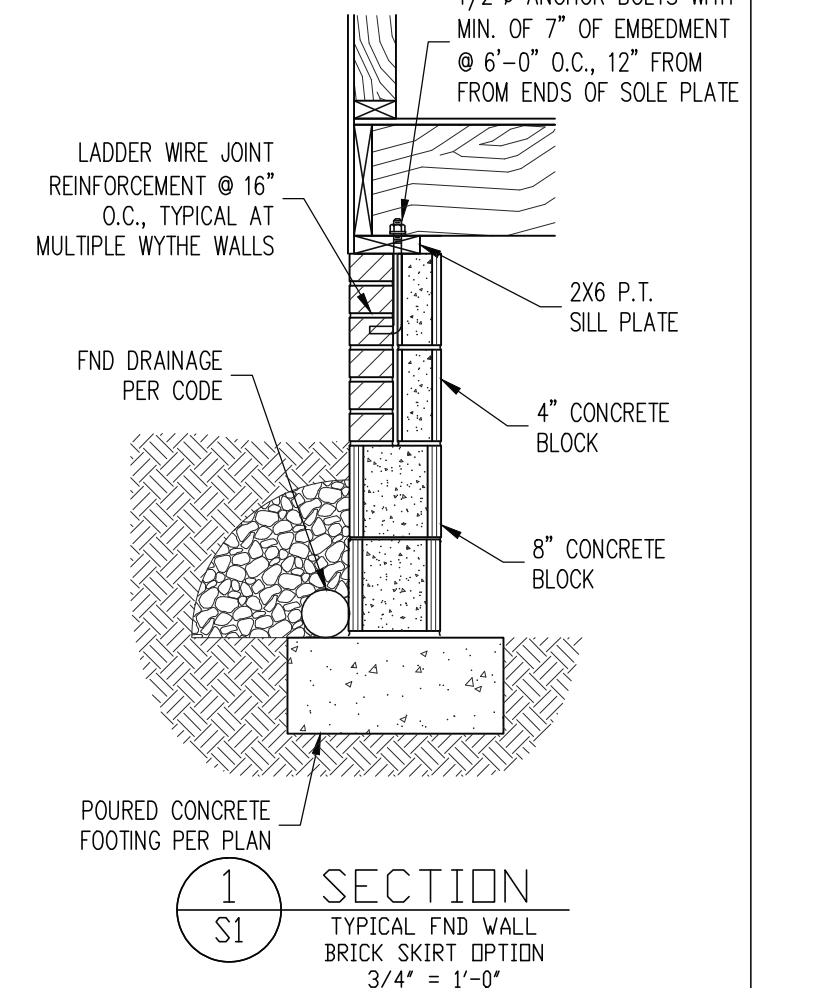
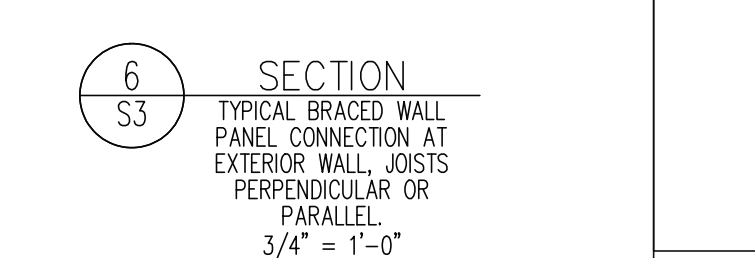
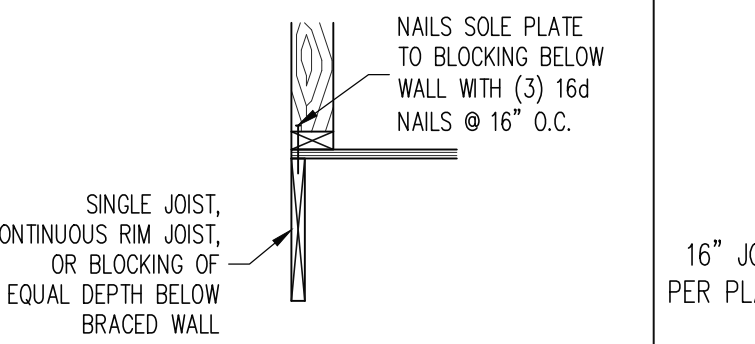
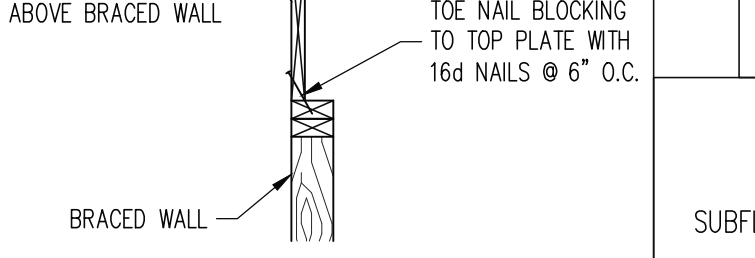
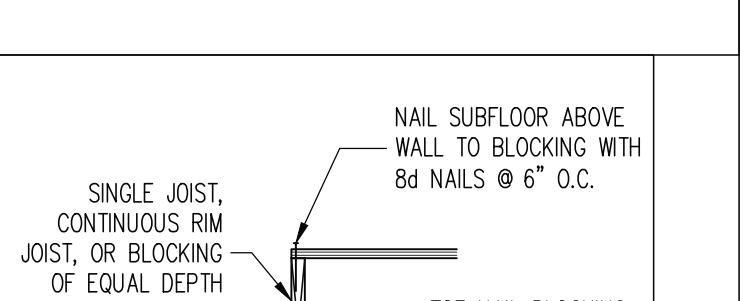
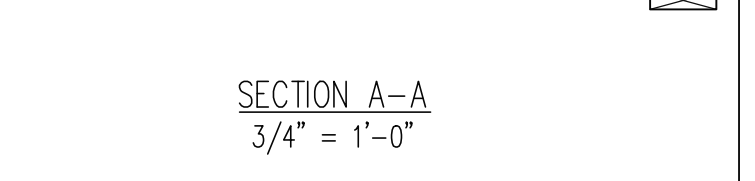
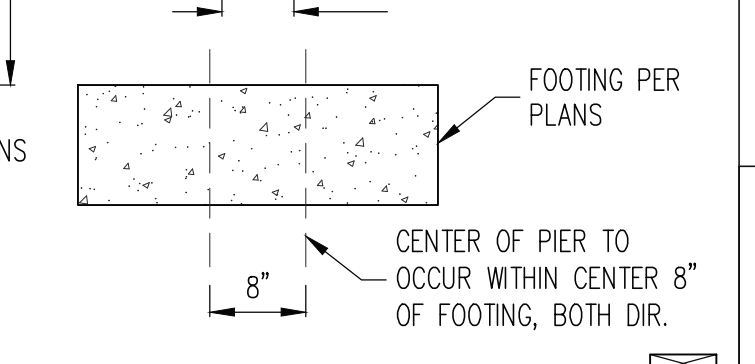
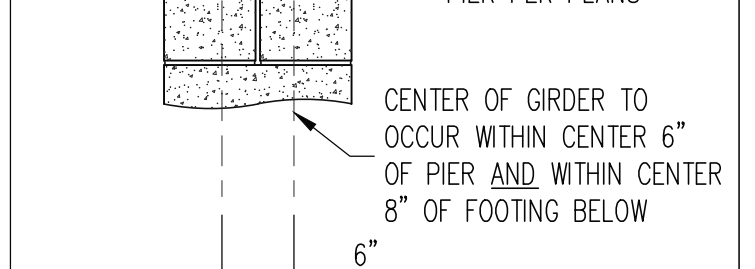
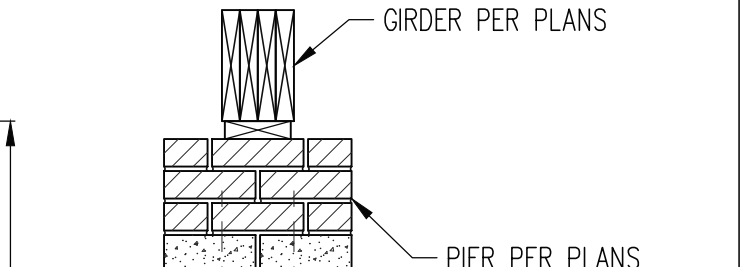
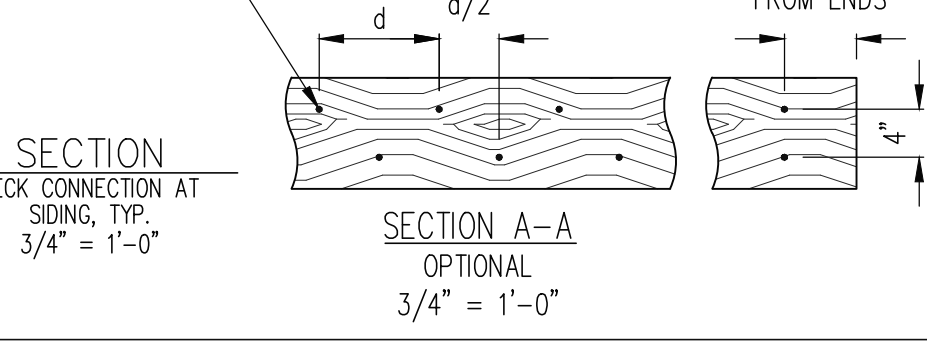
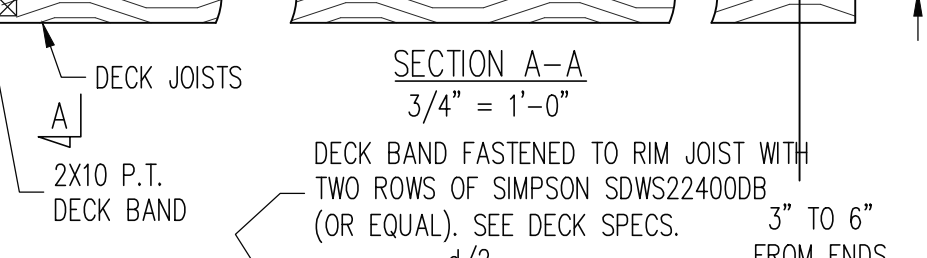
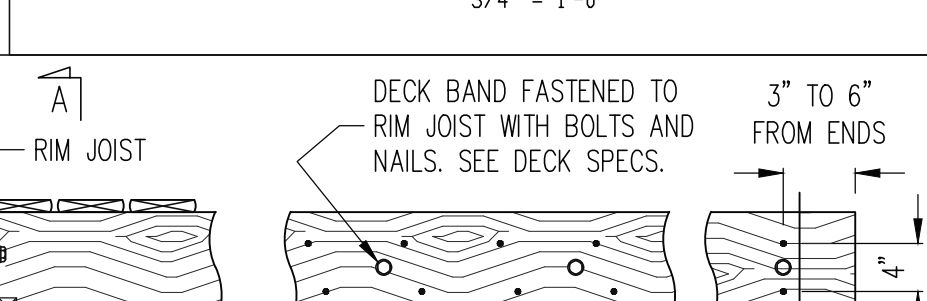
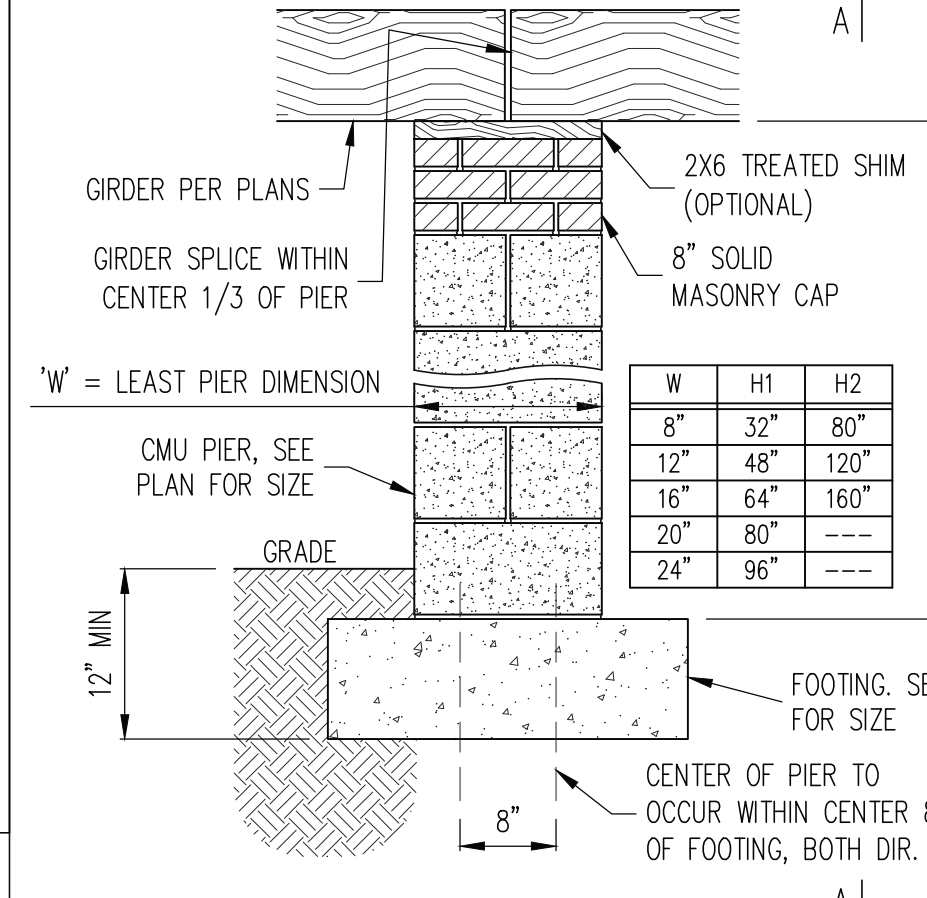
Table with 2 columns: JOIST SPAN, DECKING. Rows include 12" O.C., 16" O.C., 24" O.C., 32" O.C., 1" S4S, 1" T&G, 1 1/4" S4S, 2" S4S.

Table with 2 columns: POST SIZE, MAX POST HEIGHT. Rows include 4X4, 6X6, ENGINEERED, 8', 20', 2" +.

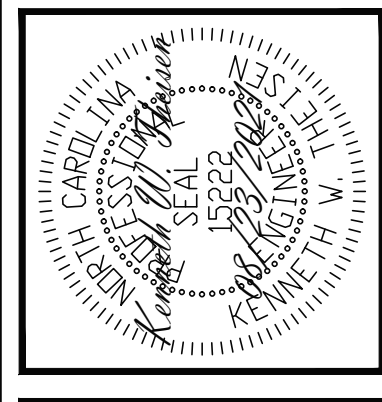
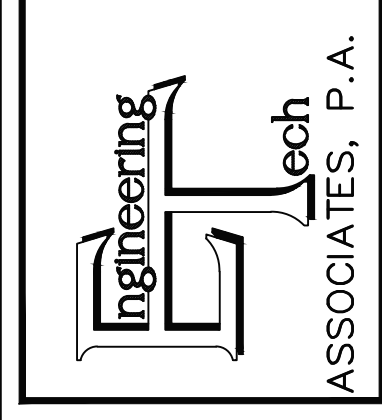
- 4. WHEN THE DECK IS SUPPORTED AT THE STRUCTURE BY ATTACHING THE DECK TO THE STRUCTURE, THE FOLLOWING ATTACHMENT SCHEDULES SHALL APPLY FOR ATTACHING THE DECK BAND TO THE STRUCTURE:
A. ALL STRUCTURES EXCEPT BRICK STRUCTURES
UP TO 8' MAX. UP TO 16' MAX.
REQUIRED FASTENERS ONE- 5/8" BOLT @ 42" O.C. AND ONE- 5/8" BOLT @ 20" O.C. AND (2) ROWS OF 12d NAILS @ 8" O.C. OR (3) ROWS OF 12d NAILS @ 6" O.C. OR TWO ROWS OF SIMPSON SDWS224000B @ d = 32" O.C. STAGGERED @ d = 16" O.C. STAGGERED

Table with 5 columns: POST SIZE, TRIBUT. AREA, POST HEIGHT, EMB. DEPTH, CONC. DIAM. Rows include 4x4, 6x6, 48 SQ. FT., 120 SQ. FT., 4'-0", 6'-0", 2'-6", 3'-6", 1'-0", 1'-8".

- 5. IF THE DECK BAND IS SUPPORTED BY A 1/2" MINIMUM MASONRY LEDGE ALONG THE FOUNDATION WALL, 5/8" BOLTS SPACED @ 48" O.C. MAY BE USED FOR SUPPORT.
6. OTHER MEANS OF SUPPORT, SUCH AS JOIST HANGERS, MAY BE USED TO CONNECT DECK JOISTS TO A TREATED STRUCTURE BAND
7. GIRDERS SHALL BEAR DIRECTLY ON POSTS OR BE CONNECTED TO THE SIDES OF POSTS WITH 2- 5/8" BOLTS
8. FLOOR DECKING SHALL BE NO. 2 GRADE TREATED SOUTHERN PINE OR EQUIVALENT. THE MINIMUM FLOOR DECKING THICKNESS SHALL BE AS FOLLOWS:



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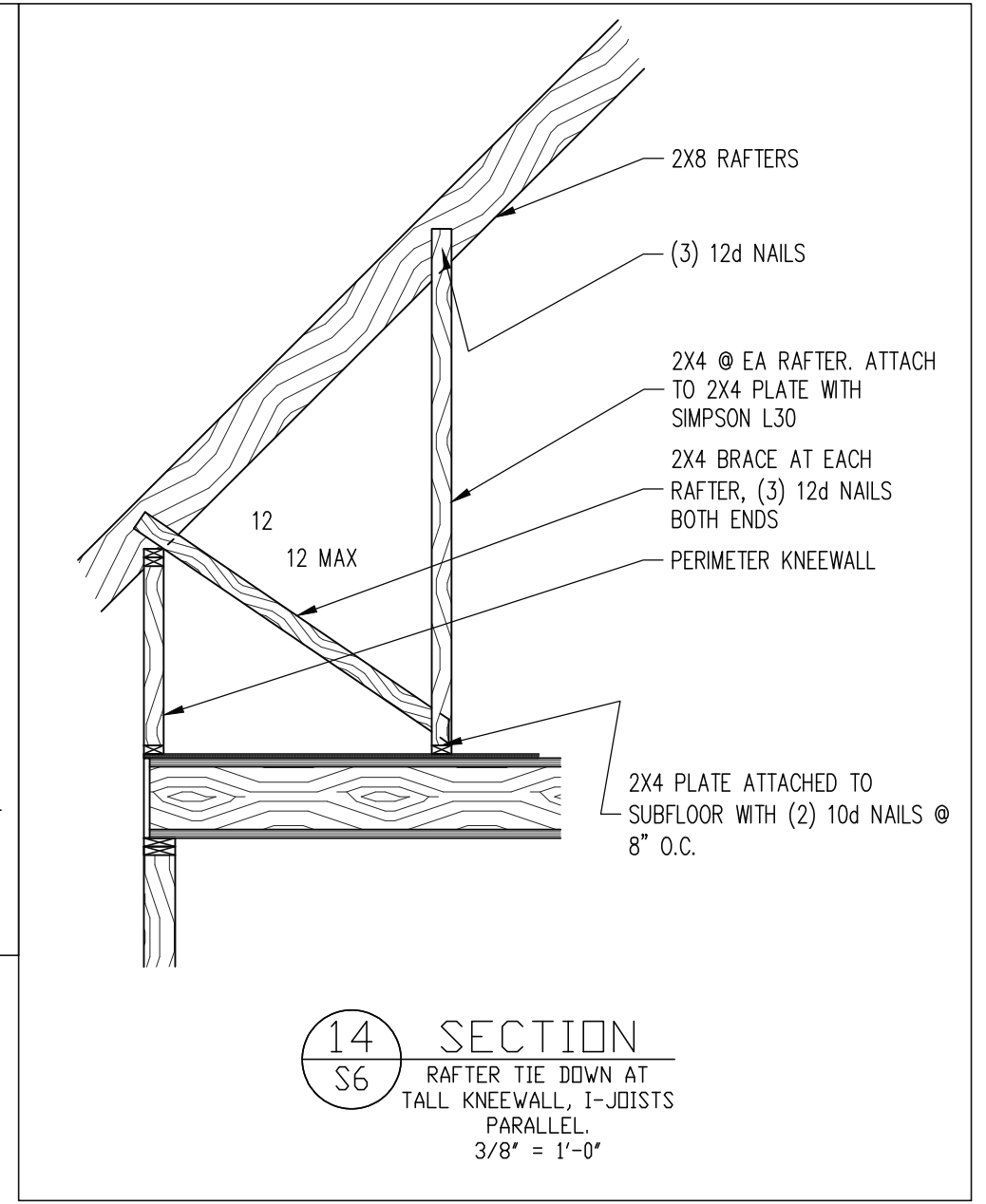
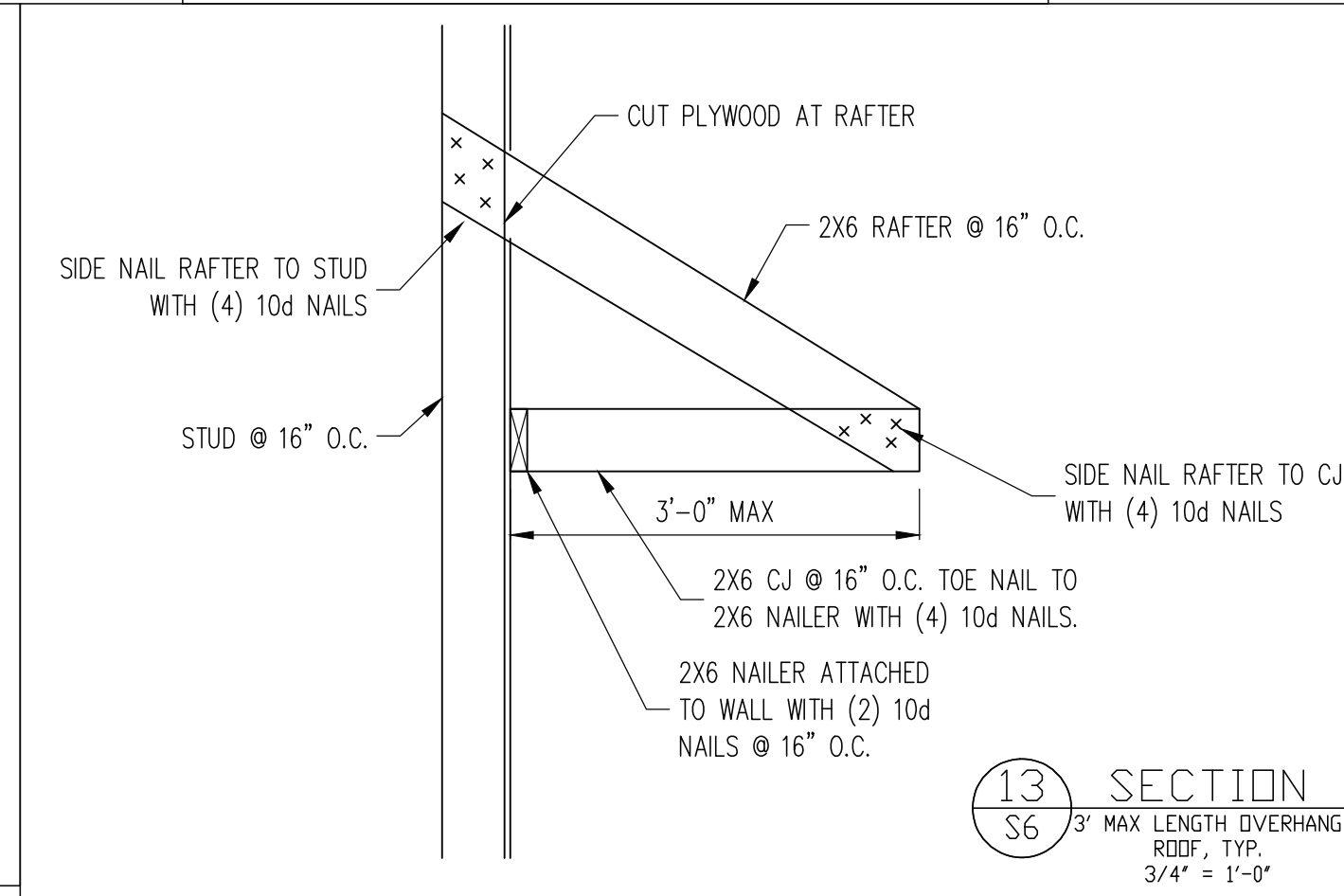
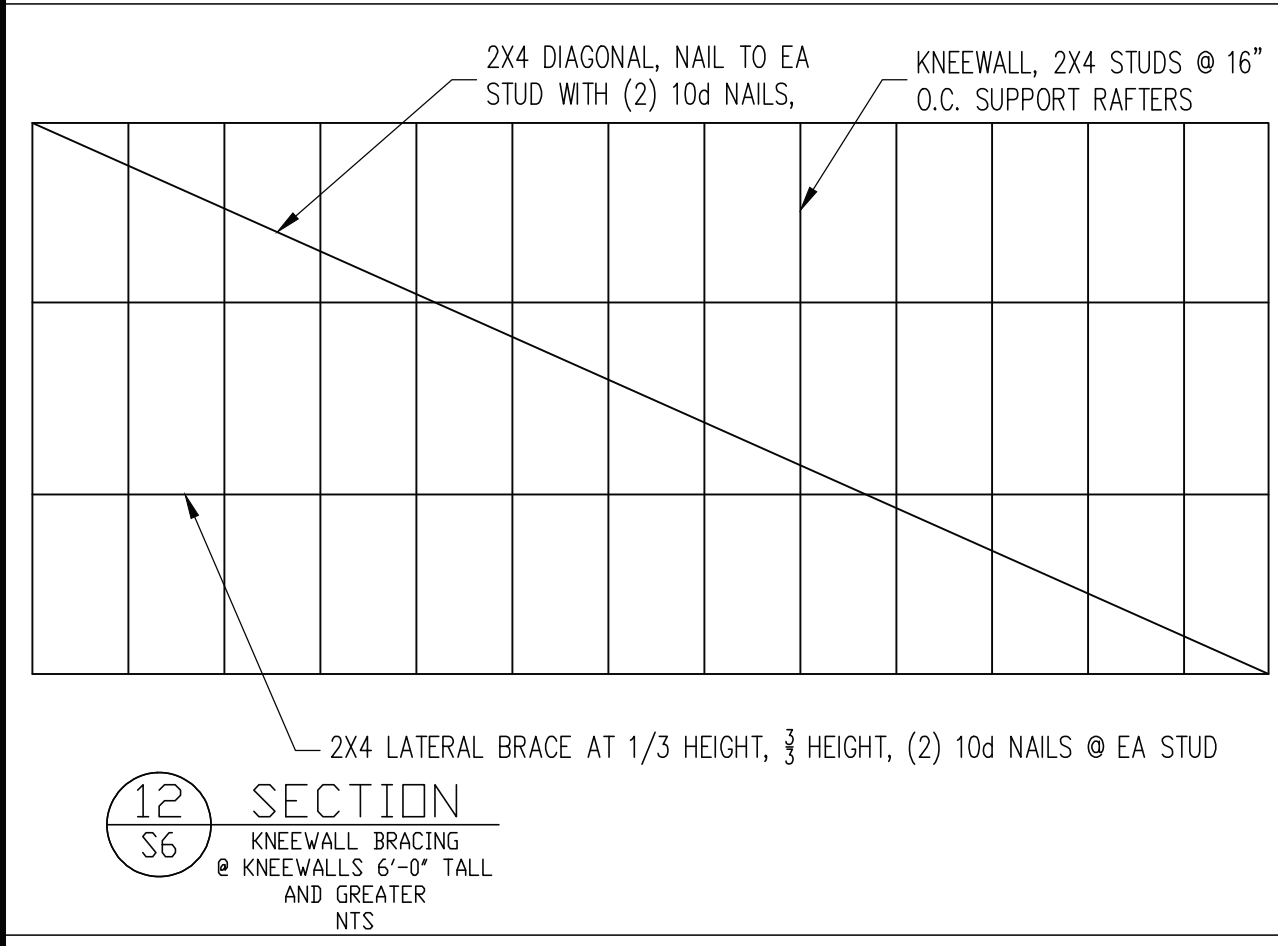
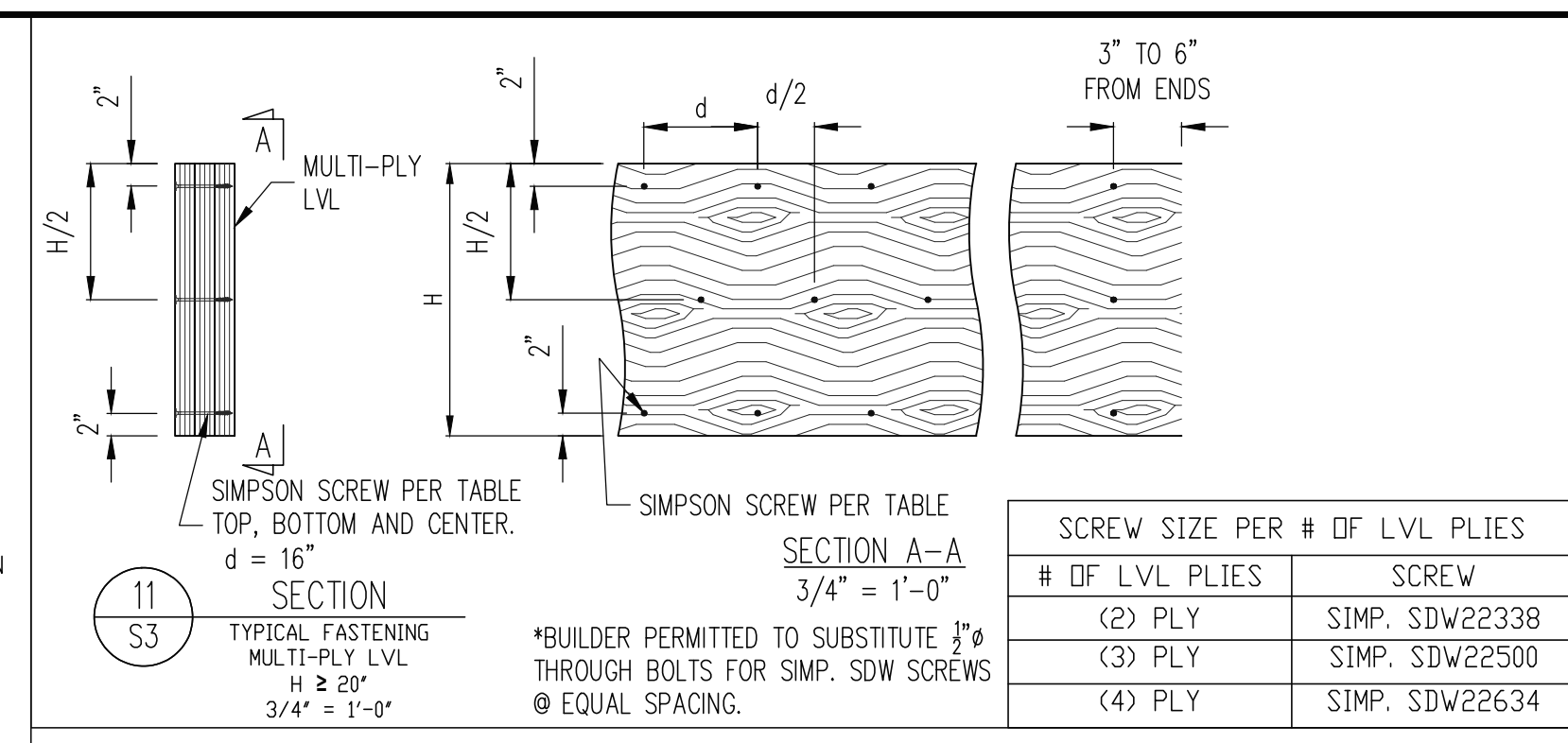
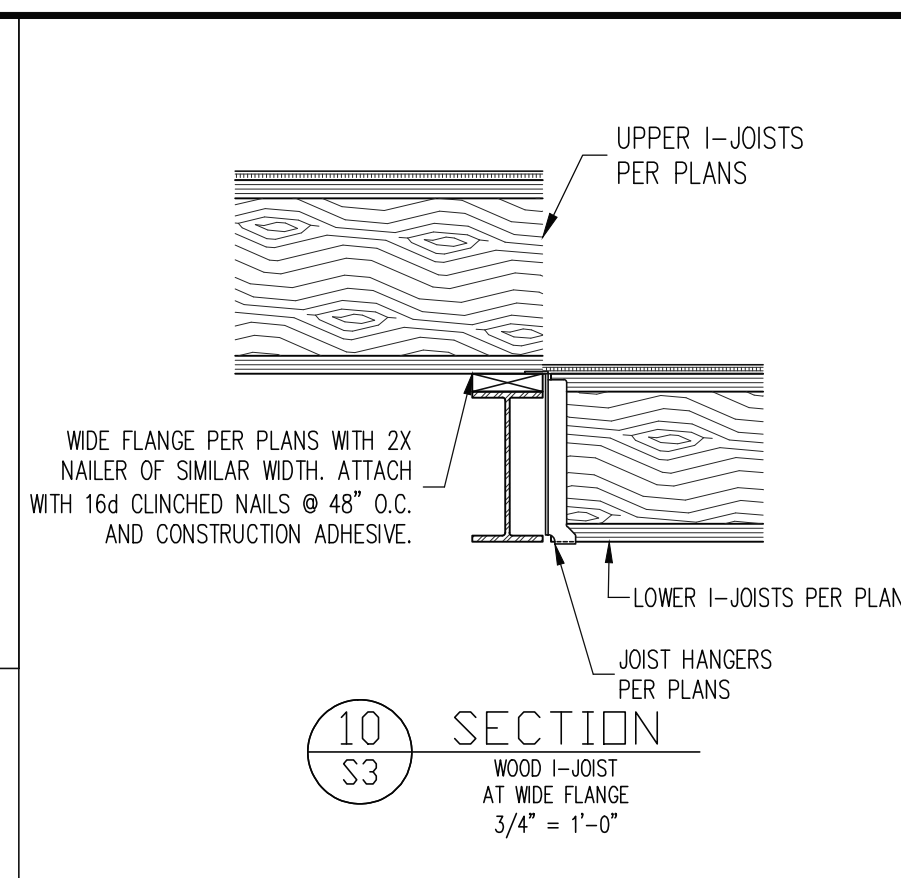
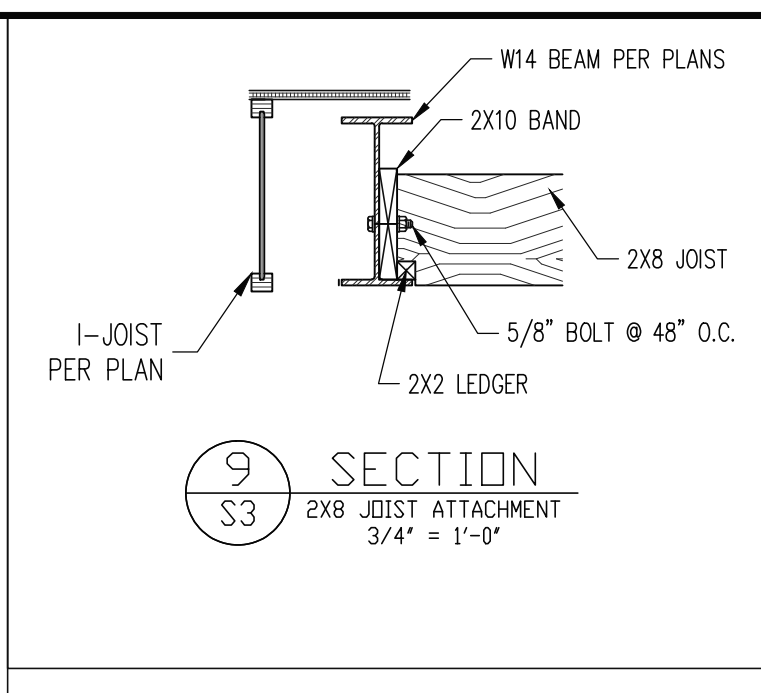
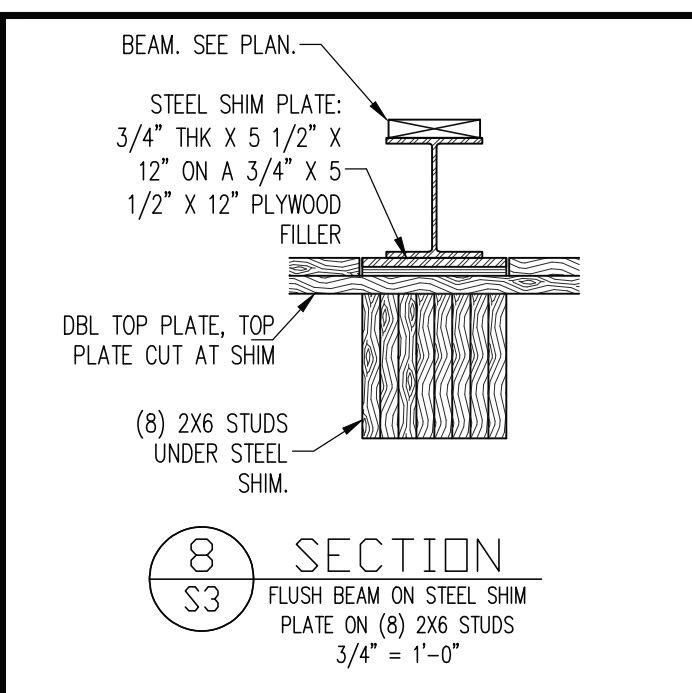
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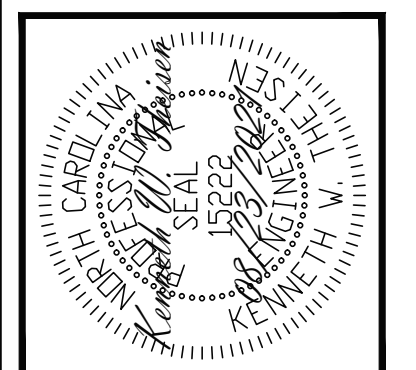
PLAN NO. M213-21

PROJECT NO. 21-21-209

SHEET NO. SD1



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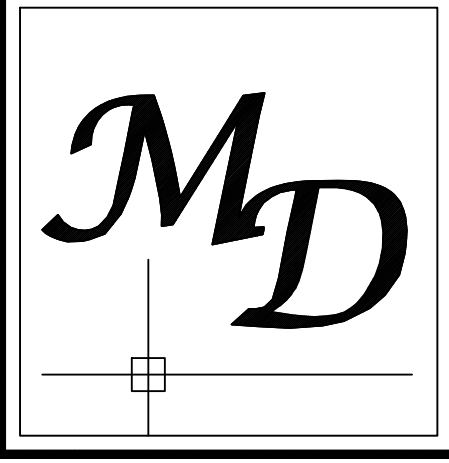
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CLIENT:	INNOVATIVE CONSTRUCTION GROUP
SCOPE:	STRUCTURAL ADDENBUM
LOT #:	ENG: KWT/TRB
REV:	REV:
DATE:	08/23/2021

PLAN NO.
M213-21

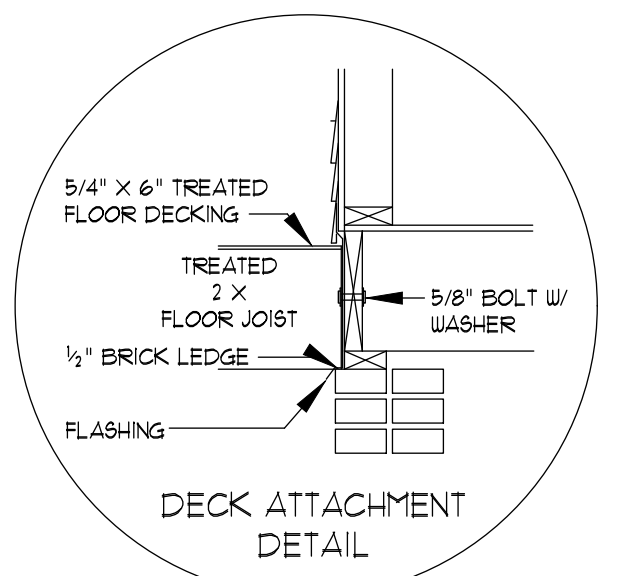
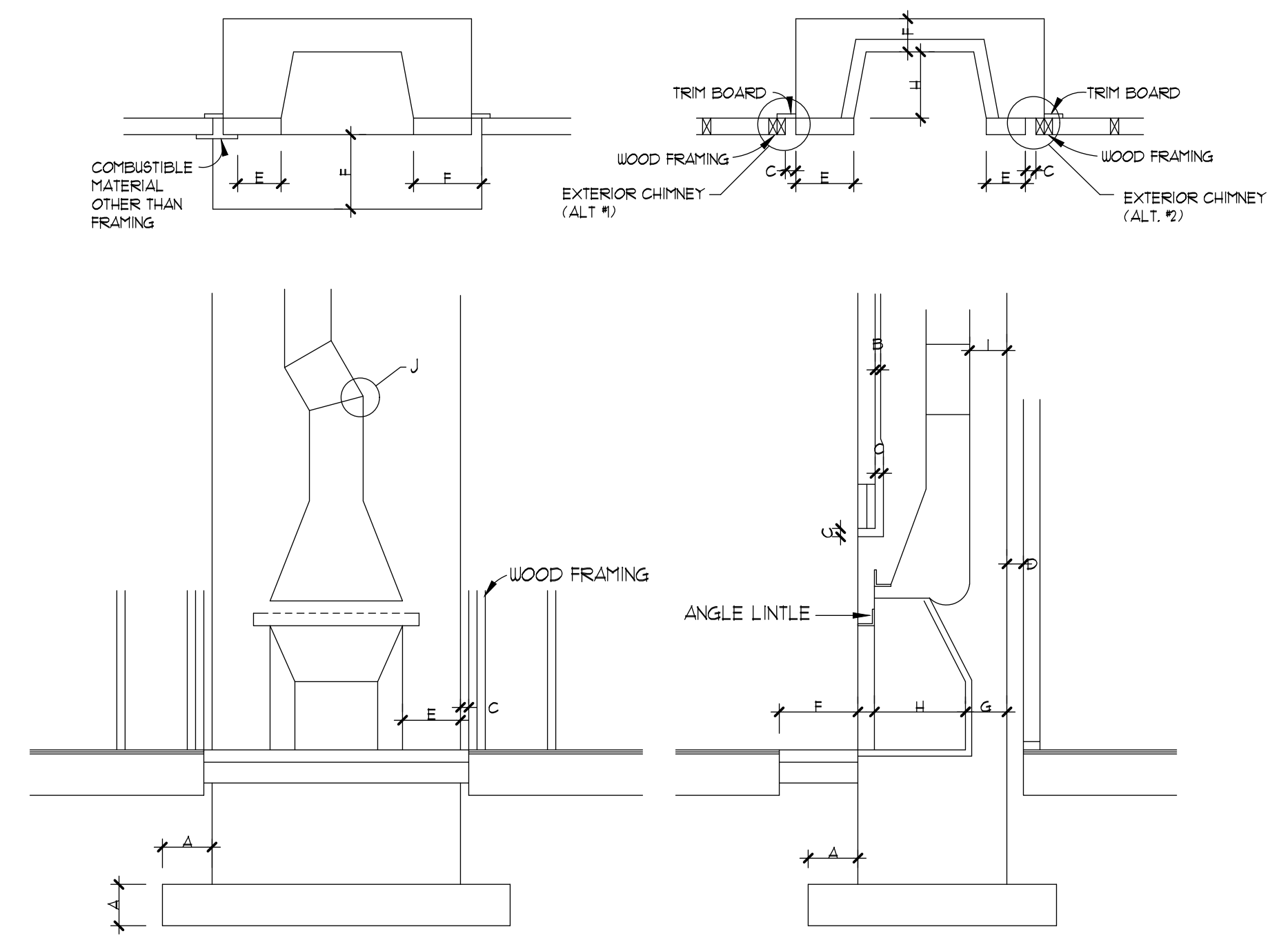
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SD2

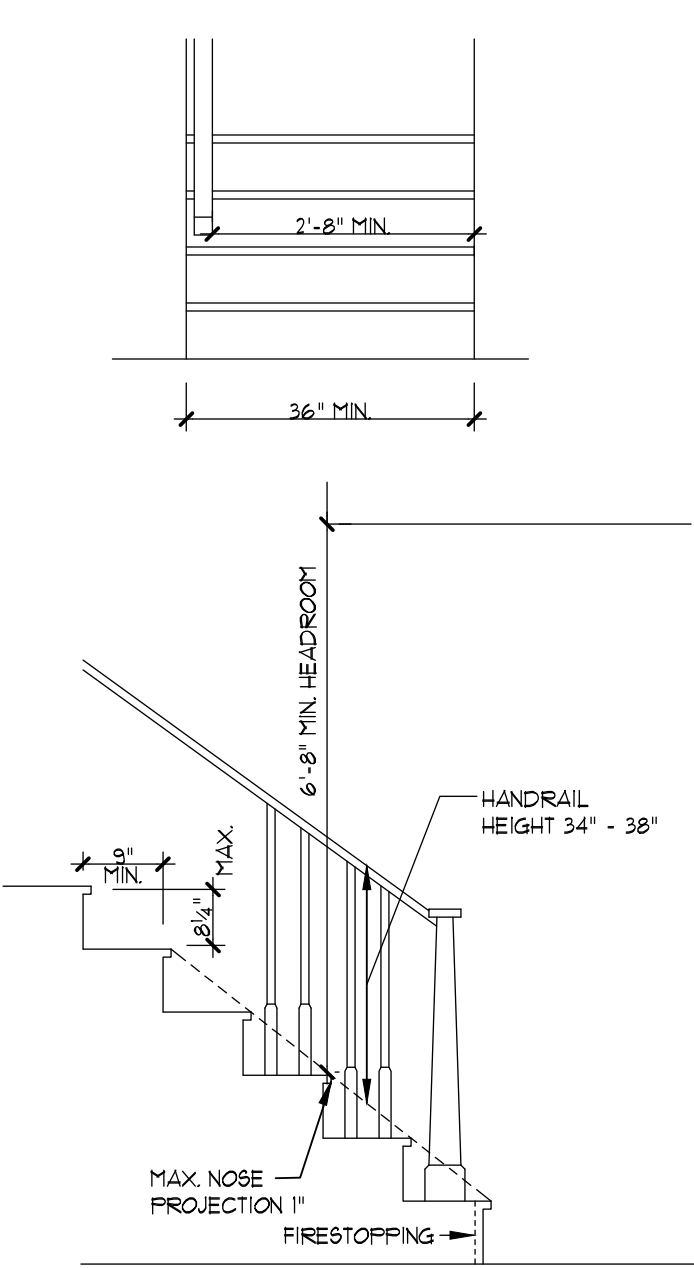


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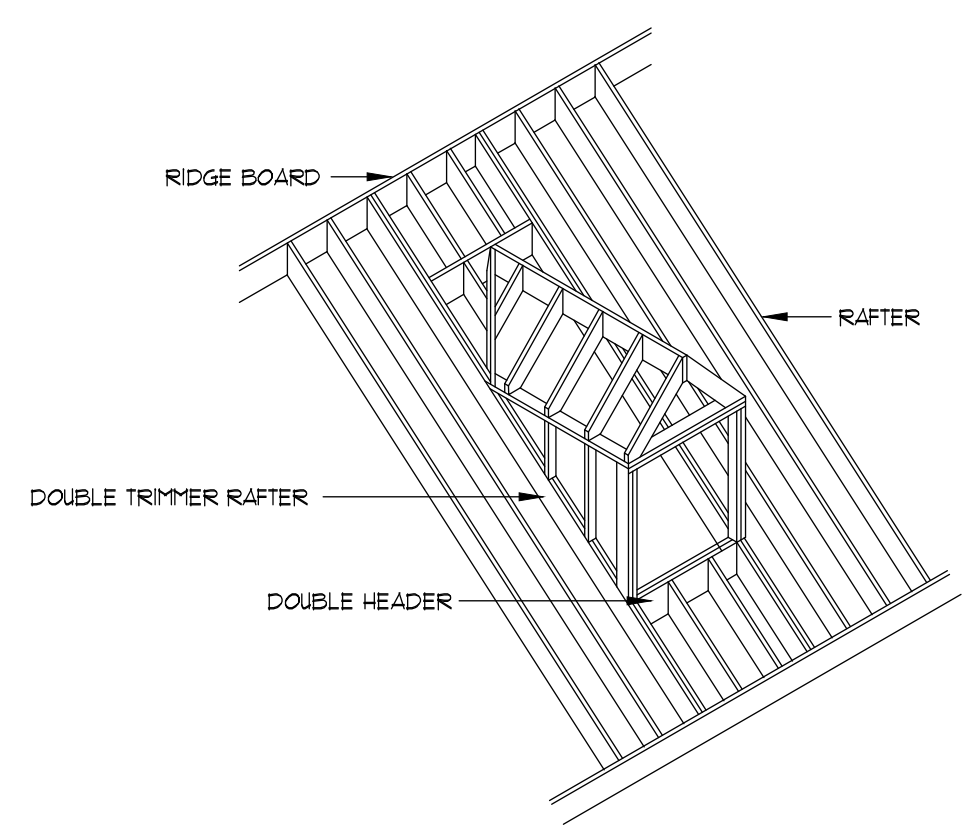
FIGURE NO. R-1001
 FIREPLACE AND CHIMNEY DETAILS



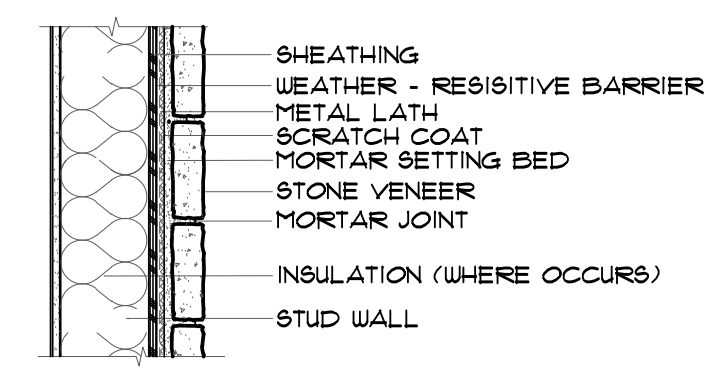
DECK ATTACHMENT
 DETAIL "A"



STAIR DETAIL
 SCALE: NTS



DORMER DETAIL
 NTS



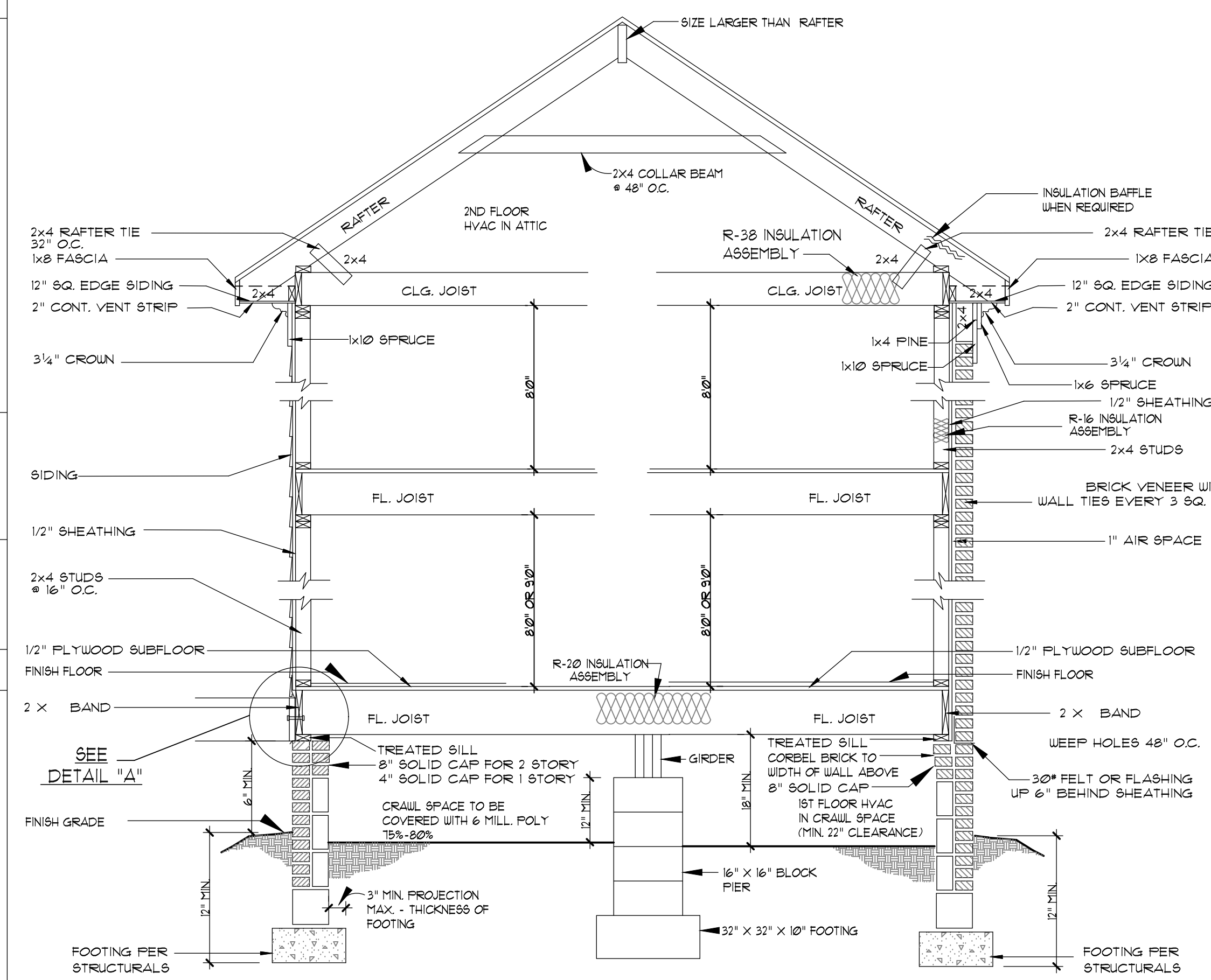
WEEP SCREEP DETAIL
 SCALE: NTS

ELEVATION NOTES

BUILDING CODES:
 THIS PLAN HAS BEEN DESIGNED UNDER THE NC BUILDING CODES, 2018 RESIDENTIAL EDITION.
ICE GUARDS:
 ICE GUARD & WATER SHIELD REQUIRED ON ALL ROOF SLOPES 4:12 & LESS PER NCBC

ITEM	LETTER	REQUIREMENT
FOOTING:		
THICKNESS	A	12" MINIMUM
PROJECTION PASSED CHIMNEY	A	12" MINIMUM ALL SIDES
MORTAR:		
FIREBRICK		REFRACTORY
FLUE LINING		TYPE M, S, N OR REFRACTORY
MASONRY OTHER THAN ABOVE		TYPE M, S OR N
MASONRY SUPPORT (LINTELS):		MASONRY, CONCRETE OR STEEL (3 1/2" X 3 1/2" X 5/16" MIN.)
ASH DUMP		NOT REQUIRED, HOWEVER, WHEN USED MUST BE FIREPROOF AND MINIMUM 5' DIAMETER DOOR
CLEARANCES:		
WOOD FRAMING	B	1" CHIMNEY MASONRY (EXCEPTION: MASONRY CHIMNEYS COMPLETELY ON THE EXTERIOR OF A BUILDING AGAINST THE SHEATHING ARE NOT REQUIRED TO COMPLY WITH THESE PROVISIONS.)
	C	2" FIREPLACE MASONRY EXCLUDING FACING MATERIAL
	D	4" AT BACK OF FIREPLACE MASONRY
COMBUSTIBLE MATERIAL	E	6" FROM EDGES OF FIREPLACE OPENING EXCEPT MATERIAL ABOVE FIREPLACE OPENING PROJECTING MORE THAN 1/2" FROM THE FACE OF THE FIREPLACE SHALL BE A MINIMUM OF 12" ABOVE FIREPLACE OPENING
ABOVE ROOF		2' ABOVE HIGHEST POINT OR 2' HIGHER THAN ANY PORTION OF BUILDING WITHIN 10'
HEARTH EXTENSION:		
F/P PENING (6 SQ. FT.)	F	8" EACH SIDE OF OPENING, 16" IN FRONT OF FACING MATERIAL
F/P OPENING (6 SQ. FT. OR)	F	12" EACH SIDE OF OPENING, 20" IN FRONT OF FACING MATERIAL
THICKNESS OF FIREBOX WALLS:	G	BACK & SIDE WALLS 6" SOLID MASONRY OR REINFORCED CONCRETE WITH MINIMUM 2" THICKNESS FIREBRICK OR REFRACTORY MATERIAL (EXCEPTION: 12" SOLID MASONRY WALLS REQUIRE NO LINING)
FIREBOX DEPTH:	H	16" FROM FACE OF FIREPLACE
FLUE REQUIREMENTS:		
WALLS AROUND FLUE	I	FLUE SHALL BE ENCASED IN NOT LESS THAN 4" OF SOLID MASONRY.
DISTANCES BETWEEN ADJACENT FLUES		TWO FLUES ADJOINING EACH OTHER SHALL HAVE JOINTS STAGGERED 1" MORE THAN 2 FLUES IN SAME CHIMNEY REQUIRE 4" W/THE SEPARATION SO THAT NO MORE THAN TWO FLUES ADJOIN WITHOUT A W/THE SEPARATION
TYPE OF MORTAR		TYPE M, S, N OR REFRACTORY MORTAR WITH CLOSE FITTING JOINTS LEFT SMOOTH ON THE INSIDE
THICKNESS		3/8" MINIMUM WITH VARIATION OF 1/8" IN WALLS
EFFECTIVE FLUE AREA (SEE TABLES 16A & 16B)		RECTANGULAR 1/10 OF FIREPLACE OPENING, ROUND 1/12 OF FIREPLACE OPENING
SLOPE	J	MAXIMUM 30 DEGREES FROM VERTICAL WITH MITERED JOINTS

THE NET FREE AREA OF SQUARE OR RECTANGULAR FLUES AS LISTED IN TABLE 16A SHALL NOT BE LESS THAN 1/10 THE FACE AREA OF THE FIREPLACE OPENING. THE NET FREE AREA OF ROUND FLUES AS LISTED IN TABLE 16B SHALL NOT BE LESS THAN 1/12 THE FACE AREA OF THE FIREPLACE OPENING. THE COMBINED AREAS OF ALL FACES SHALL BE USED.



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

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

ATTIC ACCESS:

ATTIC SPACES SHALL BE PROVIDED WITH AN INTERIOR ACCESS OPENING NOT LESS THAN 21" X 30". ACCESS OPENING SHALL BE READILY ACCESSIBLE AND PROVIDED WITH A LID OR DEVICE THAT MAY BE EASILY REMOVED OR OPERATED. WHEN MECHANICAL EQUIPMENT IS TO BE INSTALLED IN THE ATTIC, AND ONLY INTERIOR ACCESS IS TO BE PROVIDED, THE ACCESS OPENING SHALL BE NOT LESS THAN SPECIFIED ABOVE, BUT IN NO CASE LESS THAN THE SIZE REQUIRED TO INSTALL OR REMOVE THE LARGEST MAJOR COMPONENT OF THE UNIT WITHOUT DISASSEMBLY.

EXCEPTION: CONCEALED AREAS NOT LOCATED OVER THE MAIN STRUCTURE INCLUDING PORCHES, KNEEWALLS LESS THAN 5' IN HEIGHT, DORMERS, BAY WINDOWS, ETC. ARE NOT REQUIRED TO HAVE ACCESS.

CRAWL SPACE ACCESS - MINIMUM SIZE IS 36" X 22"

SAFETY GLAZING:

ALL SAFETY GLAZING MATERIALS MUST BE PERMANENTLY LABELED TO INDICATE IT CONFORMS TO ANSI Z97.1. LAMINATED GLASS MAY BE PERMANENTLY LABELED OR ACCOMPANIED BY A CERTIFICATE CERTIFYING CONFORMANCE TO ANSI Z97.1.

SAFETY GLAZING MATERIAL MUST BE USED FOR THE FOLLOWING SPECIFIED HAZARDOUS LOCATIONS:

1. ALL BATHTUB DOORS AND ENCLOSURES
2. ALL SHOWER DOORS AND ENCLOSURES
3. ALL STORM DOORS OR COMBINATION DOORS
4. ALL SLIDING GLASS DOORS (PATIO TYPE)
5. ALL SWINGING EXIT AND ENTRANCE DOORS BOTH FRAMED AND UNFRAMED
6. ALL GLAZING IN FIXED PANELS HAVING A GLAZED AREA IN EXCESS OF 9 SQ. FT. WITH LOWEST EDGE LESS THAN 18" ABOVE THE FINISHED FLOOR LEVEL, SIDEWALKS, PATIOS OR DESIGNATED WALKING SURFACE ON EITHER SIDE WITHIN 36" OF SUCH GLAZING (INCLUDES GLAZED PANELS IN MULTI-STORY STRUCTURES).

CRICKETS AND SADDLES:

CRICKETS OR CHIMNEY SADDLES SHALL BE INSTALLED ON THE UPPER SIDE OF ALL CHIMNEYS GREATER THAN 30" WIDE WHICH RUN PARALLEL TO BUT DO NOT INTERSECT THE RIDGEL. THEY SHALL BE COVERED AND FLASHED SO AS NOT TO LEAK.

STAIR WIDTH:

INTERIOR 2'-8" CLEAR OF HANDRAIL
 EXTERIOR 3'-0" MINIMUM WIDTH

HANDRAIL AND GUARDRAIL:

HEIGHT FOR STEPS 30" MINIMUM
 HEIGHT FOR RAILS OTHER RAILS 36" MINIMUM

NOTE:

EVERY PORCH, DECK, TERRACE, RAISED PORCH SURFACE OR ENTRANCE PLATFORM WITH A HEIGHT ABOVE FINISHED GRADE OR SURFACE OF 2'-6" TO 6'-0" SHALL HAVE GUARDRAILS WITH INTERMEDIATE RAILS OR ORNAMENTAL PATTERNS SUCH THAT AN 18" SPHERE CANNOT PASS THROUGH ANY OPENINGS. WHEN THE PORCH, DECK, TERRACE, RAISED PORCH SURFACE OR ENTRANCE PLATFORM IS AT A HEIGHT GREATER THAN 6'-0" ABOVE FINISHED GRADE OR SURFACE, THE GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERNS SUCH THAT A 6" SPHERE CANNOT PASS THROUGH ANY OPENING. THE HEIGHT OF THE GUARDRAIL SHALL BE A MINIMUM OF 36".

FOOTINGS: SEE FOUNDATION PLAN ENGINEERED FOOTING

MAXIMUM UNSUPPORTED FIER HEIGHT:

	HOLLOW MASONRY	SOLID MASONRY
8" X 16"	32'	20'
16" X 16"	64'	13'-4"

CRAWL SPACE DEBRIS:

CRAWL SPACE GROUND SHALL BE FREE OF ALL DEBRIS, SOIL, TREE STUMPS AND OTHER ORGANIC MATERIAL AND PROVIDE A SMOOTH SURFACE FREE OF POCKETS. WHERE SOIL CONDITIONS EXIST WHICH IMPREDE WATER ABSORPTION OR NATURAL DRAINAGE, A POSITIVE DRAIN SHALL BE PROVIDED.

MINIMUM SHELF ANGLE 6" X 4" 5/16" WITH LONGER LEG VERTICAL

ALLOWABLE SPANS FOR LINTELS SUPPORTING MASONRY VENER:

SIZE OF ANGLES (13)	MAXIMUM SPAN (2,4)
3 1/2" X 3 1/2" X 1/2"	6'-0"
5" X 3 1/2" X 5/16"	10'-0"

FOOTNOTES:

- (1) LONG LEG OF THE ANGLE SHALL BE PLACED IN A VERTICAL POSITION.
- (2) SPANS OVER 4' SHALL BE SHORED UP UNTIL CURED.
- (3) STEEL MEMBERS INDICATED ARE ADEQUATE TYPICAL EXAMPLES; OTHER STEEL MEMBERS, INCLUDING LIGHT GAUGE STEEL, MEETING STRUCTURAL DESIGN REQUIREMENTS MAY BE USED.
- (4) SPANS OVER 10'-0" SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER.

MAXIMUM PROJECTION FOR FLOOR JOIST 15" EXCEPT WHERE STRUCTURAL SYSTEM SUPPORTS ONLY THE FLOOR & ROOF LOAD OF BAY WINDOW (SEE SKETCH APPENDIX "C" VOL. 1B N.C. UNIFORM RESIDENTIAL BUILDING CODE) OR WHEN DESIGNED BY PROFESSIONAL.

COLLAR BEAM (2" X 4" MIN.) SHALL BE INSTALLED ON AT LEAST EACH THIRD PAIR OF RAFTERS AND SHALL BE DOUBLE NAILED.

MASONRY VENEER SHALL NOT EXCEED 35' IN HEIGHT ABOVE FOUNDATION AND SHALL BE ANCHORED BY CORROSION RESISTANT METAL TIES SPACED NO MORE THAN 16" VERTICALLY AND 32" HORIZONTALLY.

TYPICAL DETAILS

Sheet Title:
DETAIL SHEET

REVISIONS	
NUMBER	DATE

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Plan Number
TYPICAL
 Sheet No. **D1**
 Drawn By: **MMc.**
 Date: **10-01-19**