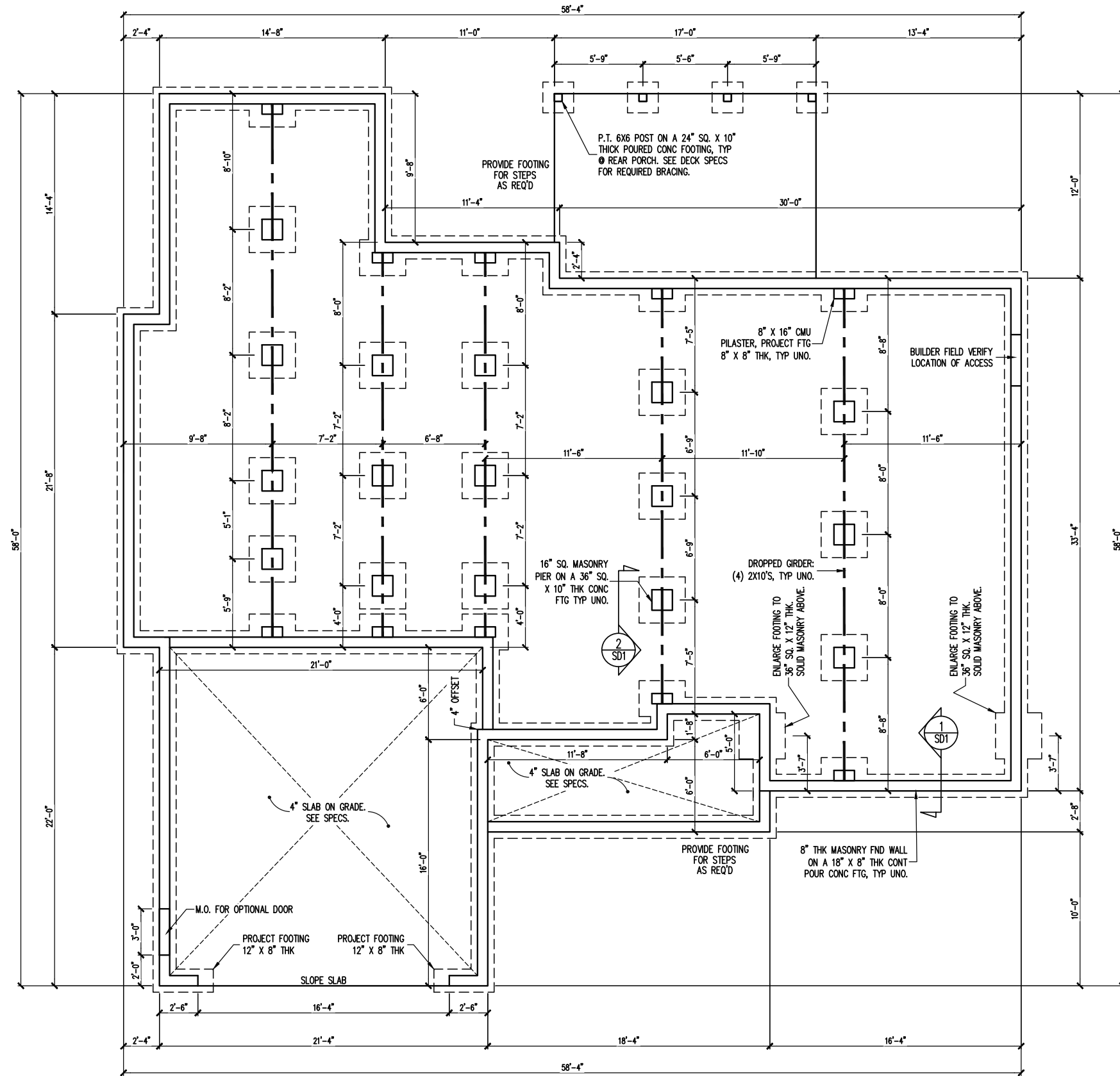
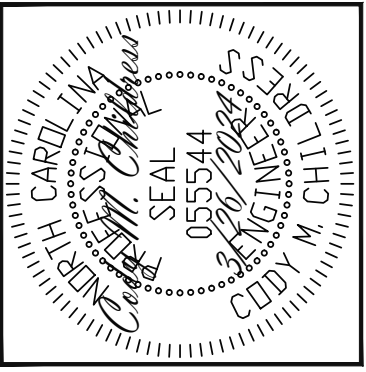




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STRUCTURAL ENGINEERS
License No. C-3870
318 W Millbrook Rd. Unit 201
Raleigh, North Carolina 27609
Phone (919) 844-1661

CHAMBERLAIN HOMES, LLC

STRUCTURAL ADDENDUM

MASTER MONTANA

REV # REF PROJ # DATE

SCOPE

ENG: CMC/JKM
DATE: 3/26/2024

PROJECT NO.
24-65-051

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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 16.02: GENERAL WALL BRACING NOTES

PART 17: KING STUDS FOR EXTERIOR WALLS

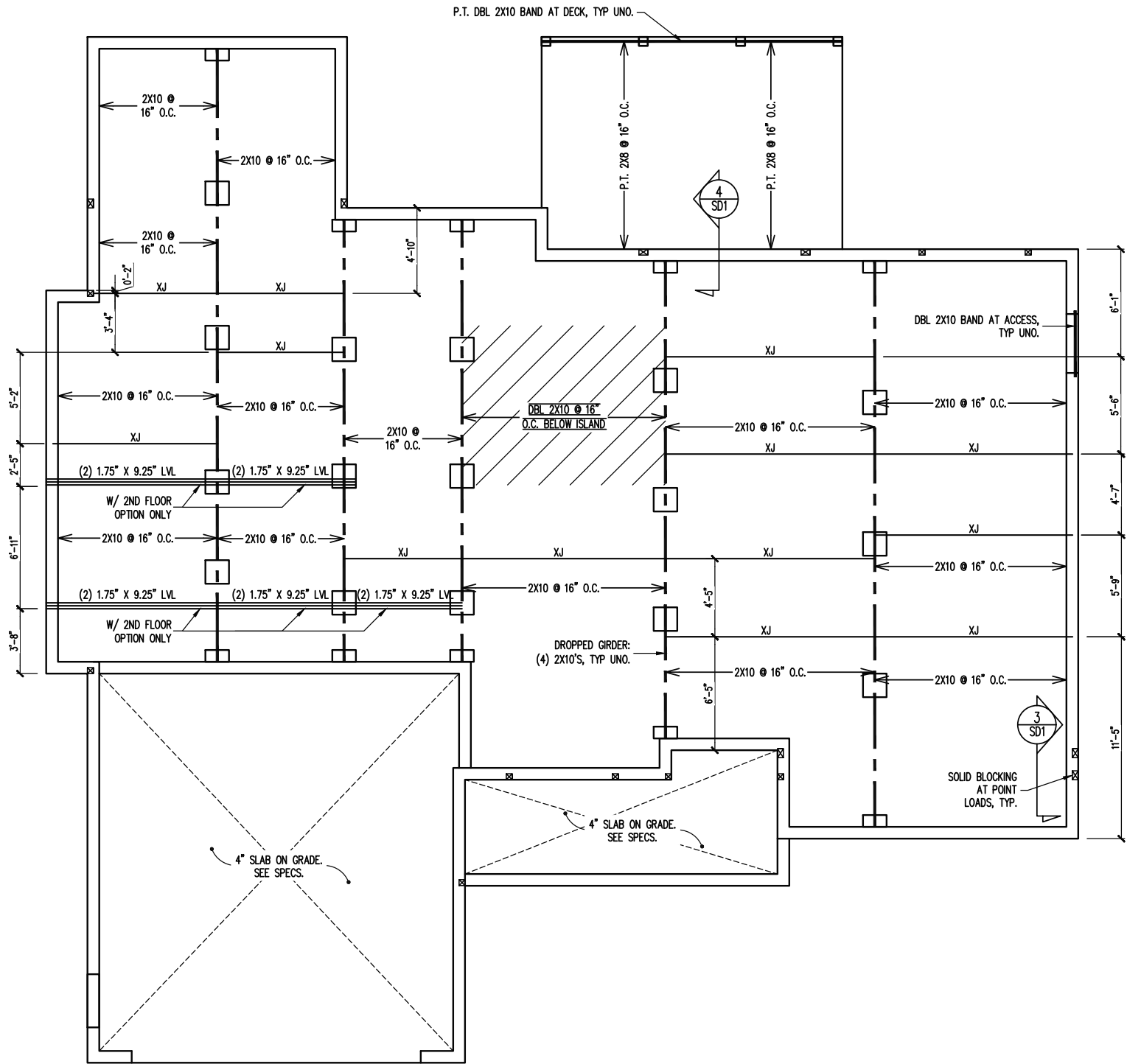
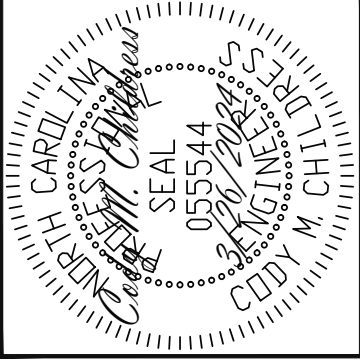
SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS

NOTES:

- HEIGHT AND BACKFILL LIMITATIONS FOR FOUNDATION WALLS ARE TO BE GOVERNED BY THE NCSBC, LATEST EDITION. REINFORCEMENT AND GROUTING SHALL BE DETERMINED BY FINAL SITE CONDITIONS.
- BUILDER TO FIELD LOCATE CRAWLSPACE ACCESS OPENING WITH MINIMUM DIMENSIONS OF 18X24. DO NOT LOCATE ACCESS OPENING BELOW POINT LOADS FROM ABOVE WITHOUT ENGINEER APPROVAL.

FOUNDATION PLAN
CRAWLSPACE OPTION: 1/8" = 1'-0"

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CRAWLSPACE PLAN
1/8" = 1'-0"

Engineering Tech Associates, P.A.

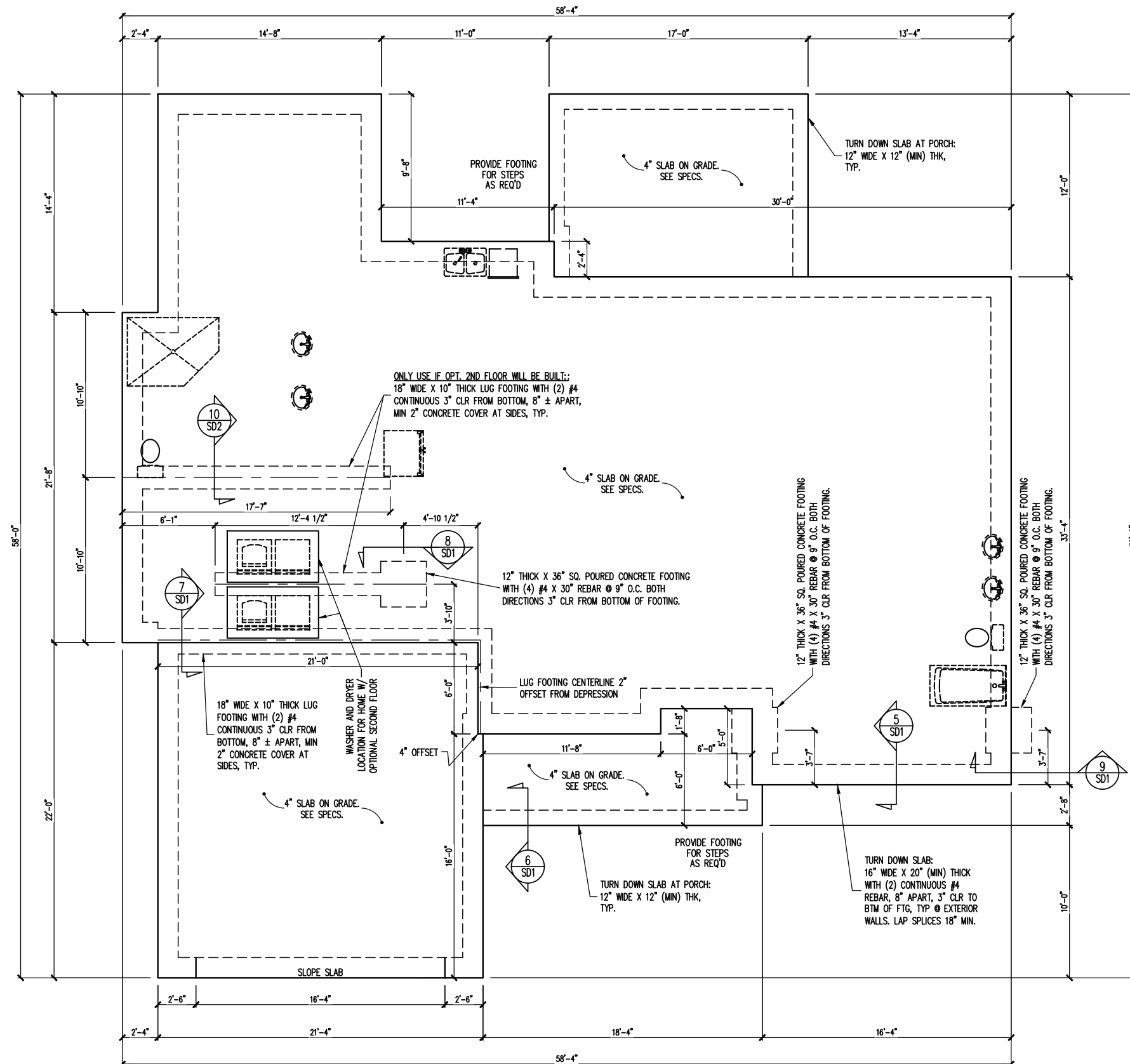
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SCOPE:	CHAMBERLAIN HOMES, LLC			
	STRUCTURAL ADDENDUM			
	MASTER MONTANA	REV #	REF PROJ #	DATE

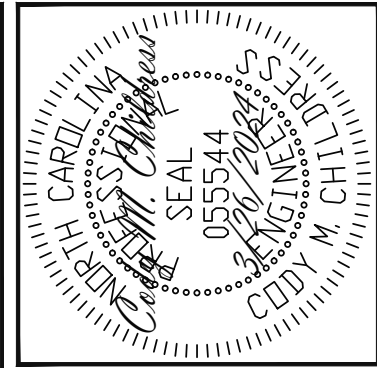
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PROJECT NO.
24-65-051

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S2
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SCOPE:	CHAMBERLAIN HOMES, LLC		
	STRUCTURAL ADDENDUM		
	MASTER MONTANA		
REV #	REF PROJ #	DATE	

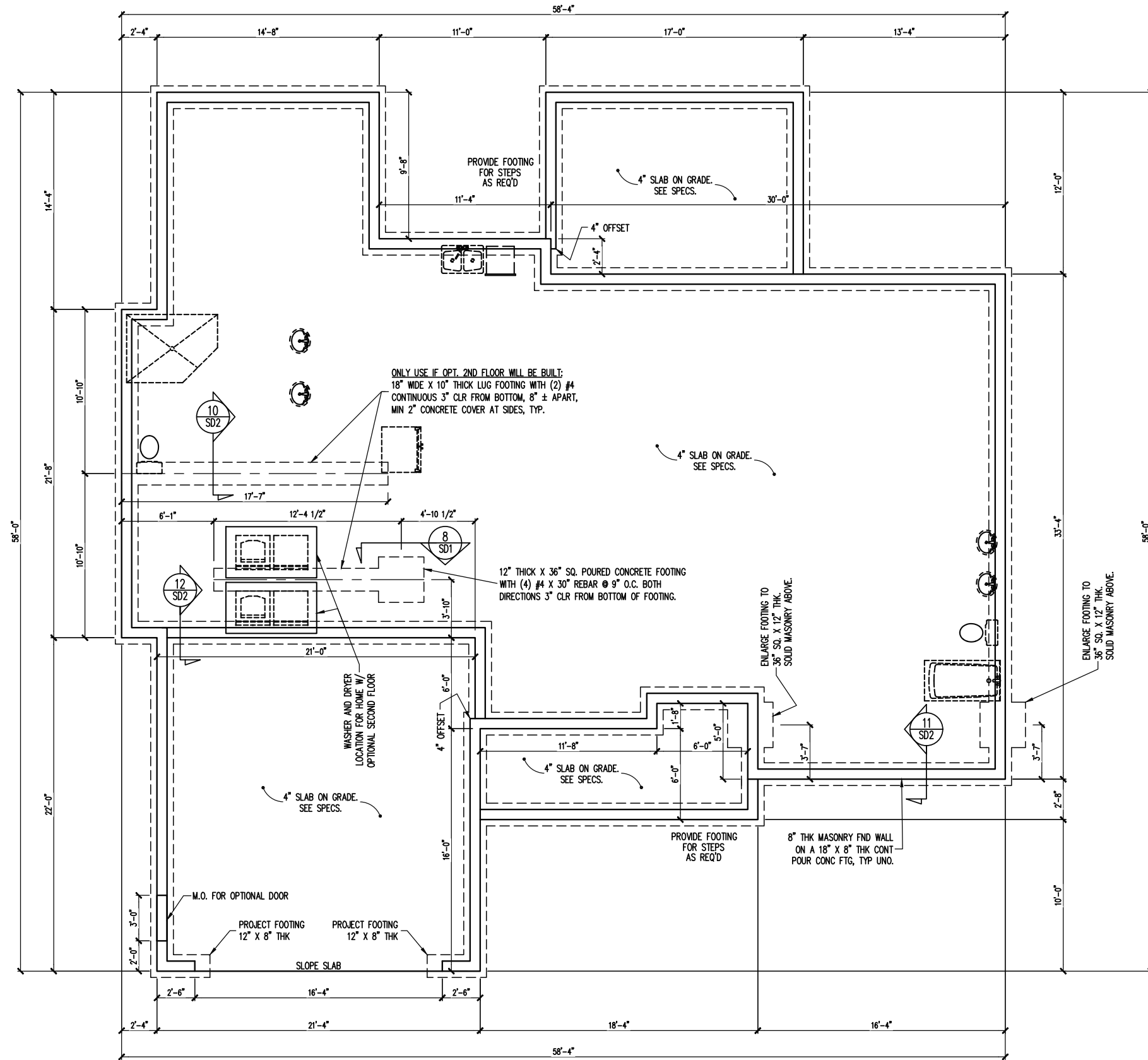
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DATE: 3/26/2024

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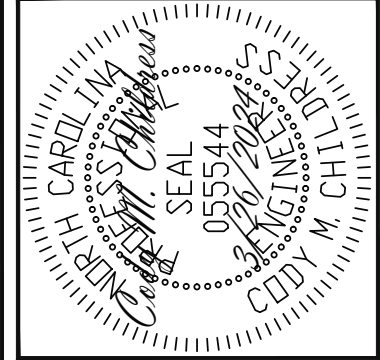
SHEET NO.
S3
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CONSTRUCTION SPECIFICATIONS
INSTANT REFERENCES
REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION:
PART 1.01: CURRENT GOVERNING CODE
PART 14: STUD SUPPORT FOR BEAMS
PART 16.02: GENERAL WALL BRACING NOTES
PART 17: KING STUDS FOR EXTERIOR WALLS
SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS
NOTES:
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-PLUMBING SHOWN FOR REFERENCE ONLY. BUILDER VERIFY FINAL FIXTURE LOCATIONS, SIZES AND REQUIREMENTS PRIOR TO INSTALLATION.

FOUNDATION PLAN
MONOSLAB OPTION: 1/8" = 1'-0"



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CHAMBERLAIN HOMES, LLC	STRUCTURAL ADDENDUM		REV #	REF PROJ #	DATE
	MASTER MONTANA				

ENG: CMC/JKM
DATE: 3/26/2024

PROJECT NO.
24-65-051

SHEET NO.
S4

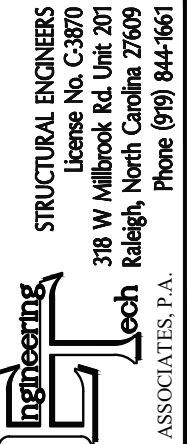
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CONSTRUCTION SPECIFICATIONS
INSTANT REFERENCES
REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION:
PART 1.01: CURRENT GOVERNING CODE
PART 14: STUD SUPPORT FOR BEAMS
PART 16.02: GENERAL WALL BRACING NOTES
PART 17: KING STUDS FOR EXTERIOR WALLS
SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS

NOTES:
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FOUNDATION PLAN
STEM WALL SLAB OPTION: 1/8" = 1'-0"

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ASSOCIATES, P.A.

CHAMBERKLAHN HOMES, LLC
STRUCTURAL ADDENDUM

STRUCTURAL ADDENDUM

REV #	REF PROJ #	DATE

MASTER MONTANA

SCORE

ENG: CMC/JKM

DATE: 3/26/2024

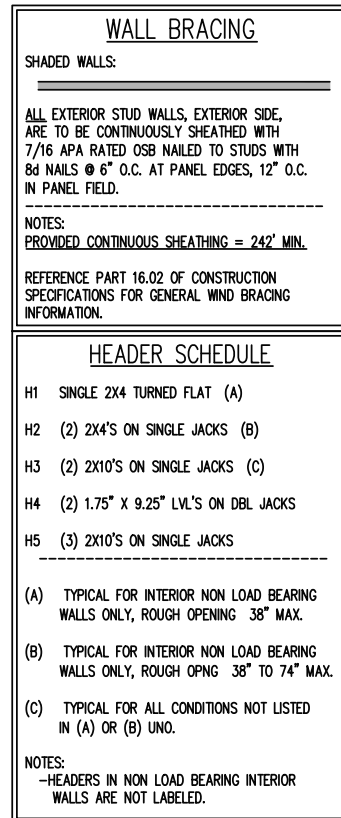
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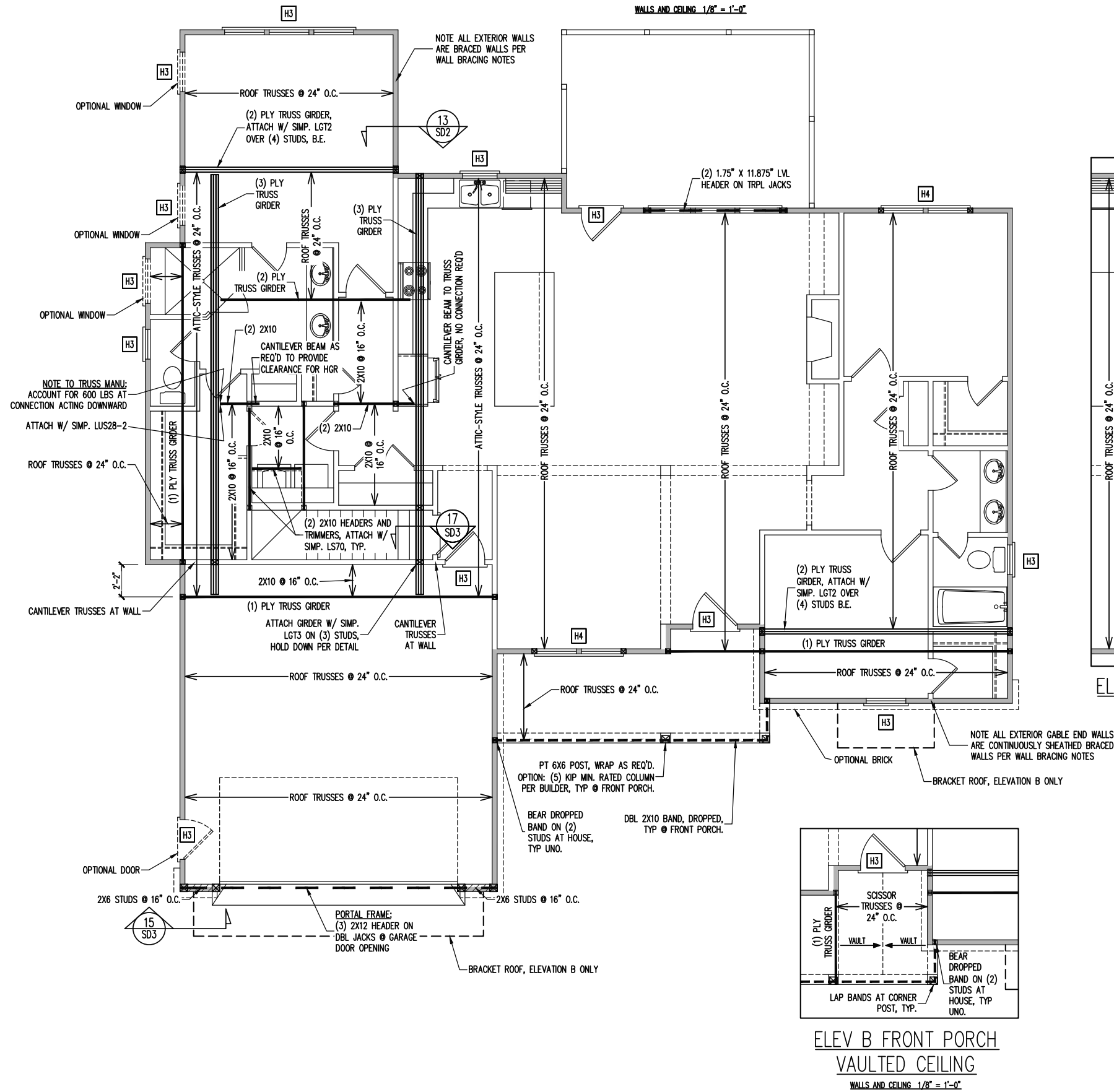
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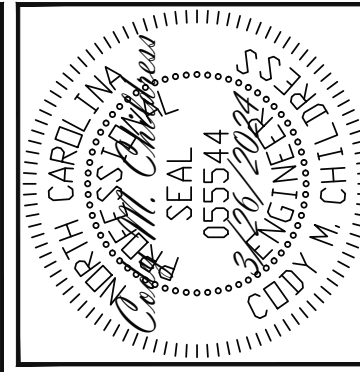


1ST FLOOR FRAMING PLAN

W/O OUT OPTIONAL 2ND FLOOR. ALL ELEVATIONS: WALLS AND CEILING 1/8" = 1'-0"



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	MASTER MONTANA				
	SCOPE				

ENG: CMC/JKM
DATE: 3/26/2024

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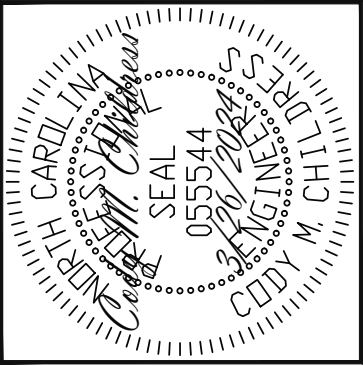
SHEET NO.
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WALL BRACING	
SHADED WALLS:	
ALL EXTERIOR STUD WALLS, EXTERIOR SIDE, ARE TO BE CONTINUOUSLY SHEATHED WITH 7/16 APA RATED OSB NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD.	
NOTES: PROVIDED CONTINUOUS SHEATHING = 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
W/ OPTIONAL 2ND FLOOR, ALL ELEVATIONS: WALLS AND CEILING 1/8" = 1'-0"

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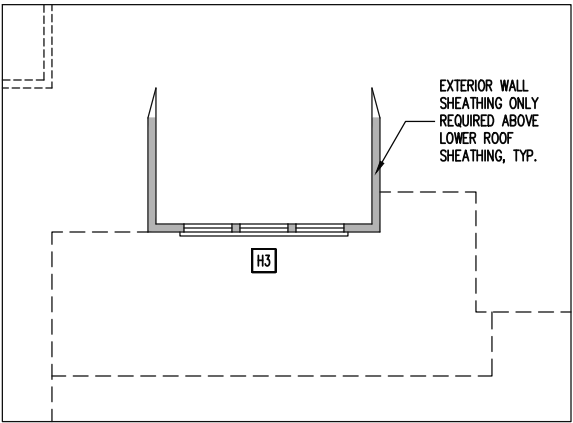
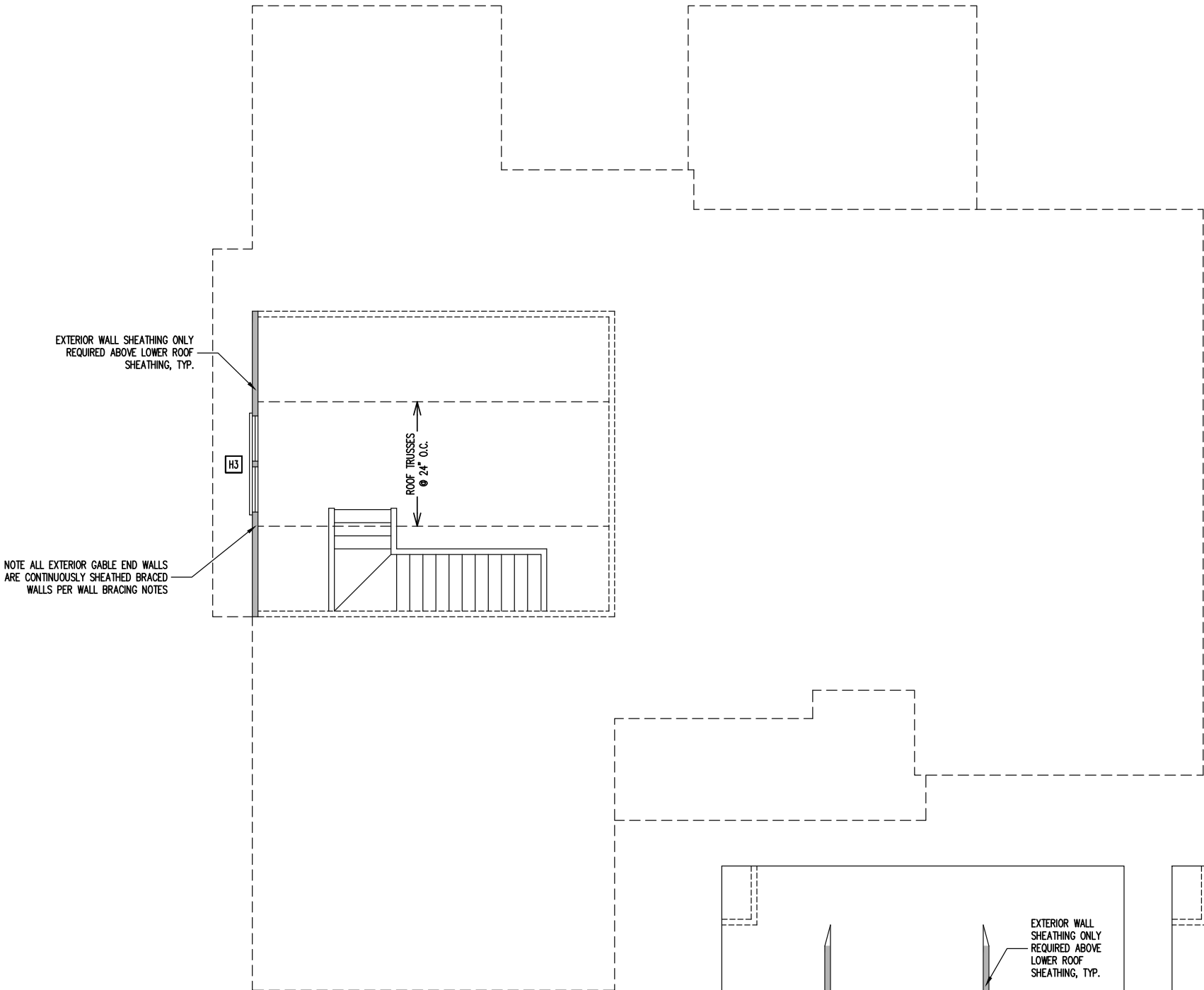
SCOPE	CHAMBERLAIN HOMES, LLC			
	STRUCTURAL ADDENDUM			
	REV #	REF PROJ #	DATE	
	MASTER MONTANA			

ENG: CMC/JKM
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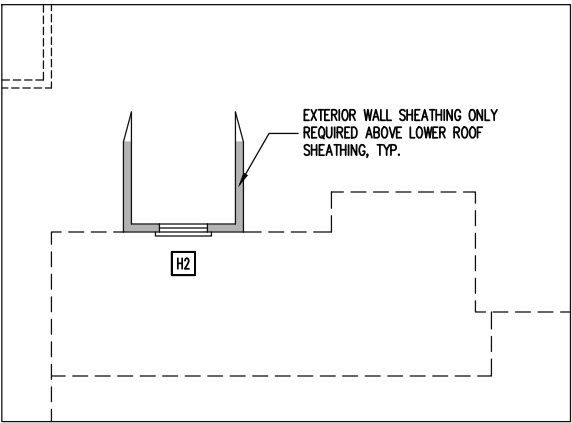
PROJECT NO.
24-65-051

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ELEVATION A DORMER
WALLS AND CEILING 1/8" = 1'-0"



ELEVATION C DORMER
WALLS AND CEILING 1/8" = 1'-0"

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:

ELEV A:
PROVIDED CONTINUOUS SHEATHING = 37' MIN.

ELEV B:
PROVIDED CONTINUOUS SHEATHING = 18' MIN.

ELEV C:
PROVIDED CONTINUOUS SHEATHING = 30' 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

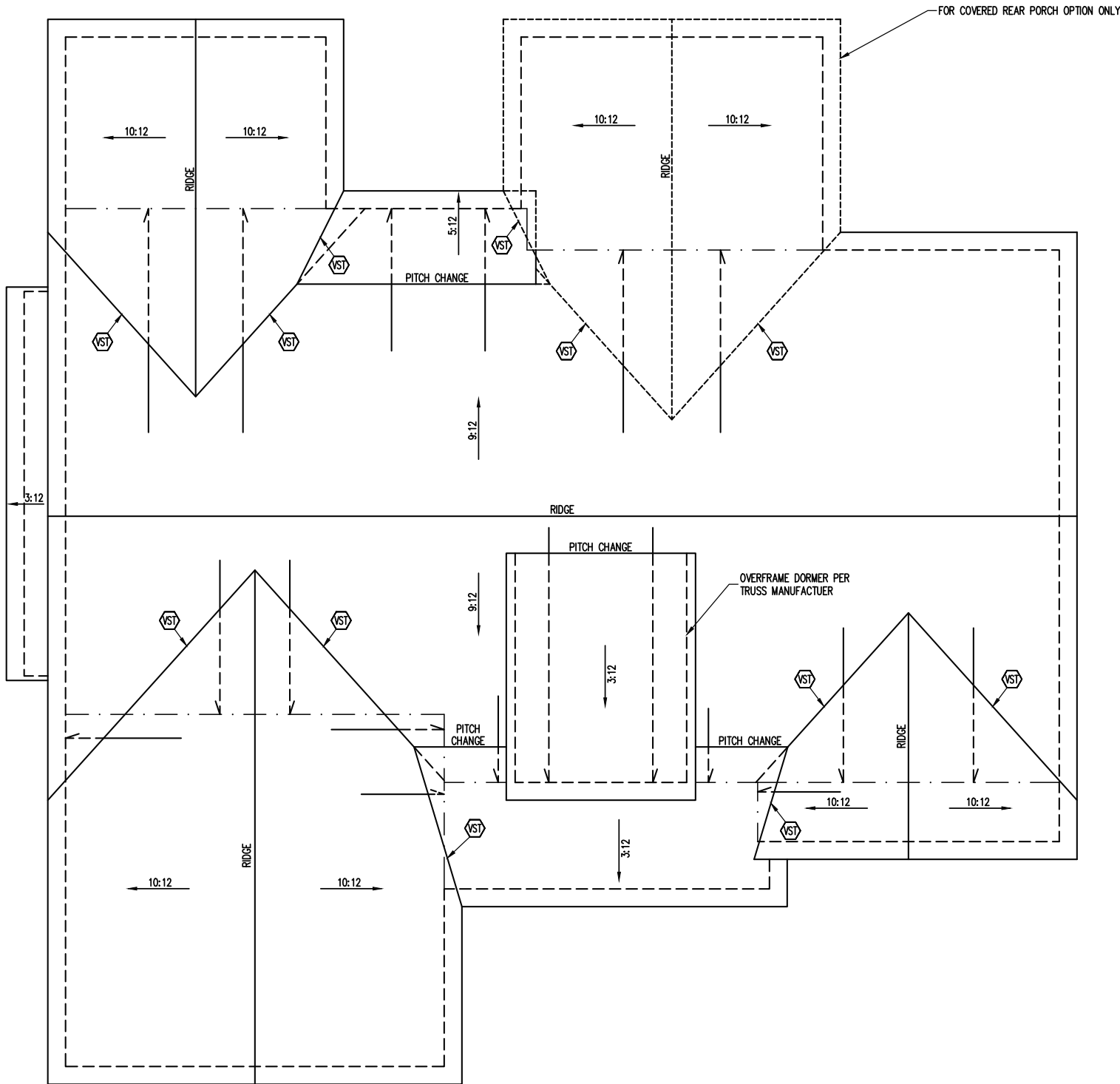
(A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 38" MAX.

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

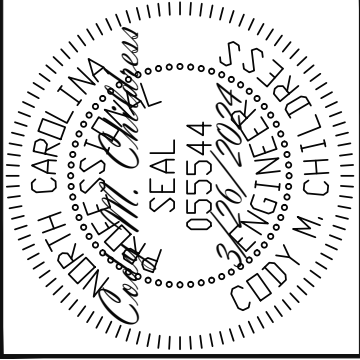
(C) TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO.

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

2ND FLOOR FRAMING PLAN
WALLS AND CEILING 1/8" = 1'-0"



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Phone (919) 844-1661

CHAMBERLAIN HOMES, LLC		STRUCTURAL ADDENDUM		MASTER MONTANA	
SCOPE	REV #	REF PROJ #	DATE		

TRUSS UPLIFT CONNECTORS

EXPOSURE B, 120 MPH, ANY PITCH
24" O.C. MAX ROOF TRUSS SPACING

TRUSSES SHALL BE ATTACHED TO SUPPORT WALL FOR UPLIFT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE BELOW.

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

ROOF SPAN UP TO 18'	CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION
OVER 18'	(1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM

FRAMING NOTES

ROOF ONLY

-ROOF TRUSSES PER MANU. TYPICAL U.N.O.

-VERIFY ALL HEEL HEIGHTS, ROOF PITCHES, AND ARCHITECTURAL OVERHANGS PRIOR TO CONSTRUCTION

FRAMING SCHEDULE

ROOF ONLY

VST VALLEY SET TRUSSES PER MANU

ELEVATION A: ROOF FRAMING PLAN

1/8" = 1'-0"

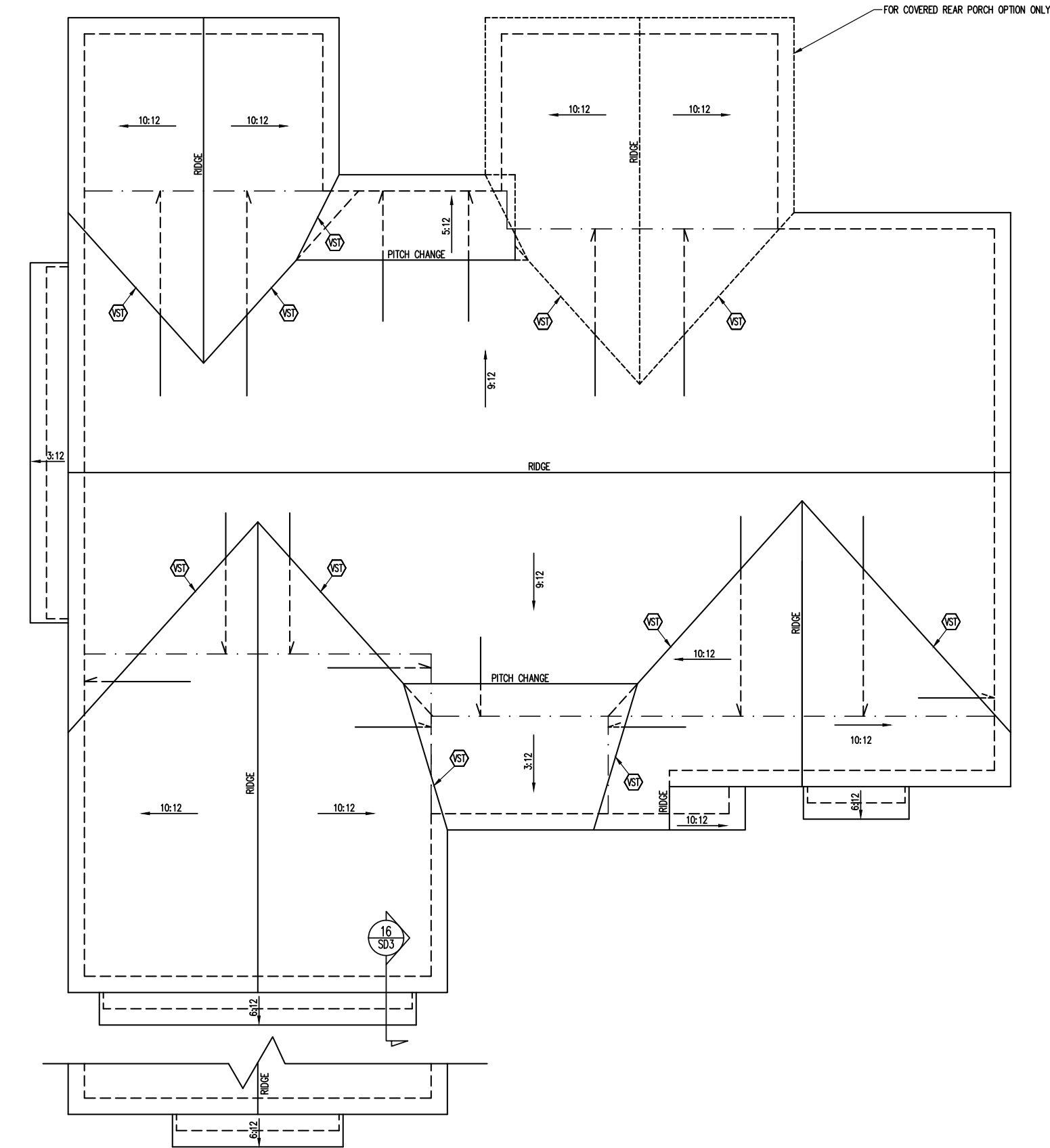
ENG: CMC/JKM

DATE: 3/26/2024

PROJECT NO. 24-65-051

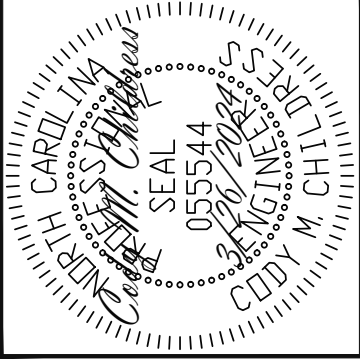
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ROOF FRAMING PLAN FOR SIDE LOAD GARAGE OPTION
1/8" = 1'-0"

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TRUSS UPLIFT CONNECTORS
EXPOSURE B, 120 MPH, ANY PITCH
24" O.C. MAX ROOF TRUSS SPACING

TRUSSES SHALL BE ATTACHED TO SUPPORT WALL FOR UPLIFT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE BELOW.

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

ROOF SPAN UP TO 18'	CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION
OVER 18'	(1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM

FRAMING NOTES
ROOF ONLY
-ROOF TRUSSES PER MANU. TYPICAL U.N.O.
-VERIFY ALL HEEL HEIGHTS, ROOF PITCHES,
AND ARCHITECTURAL OVERHANGS PRIOR TO
CONSTRUCTION

FRAMING SCHEDULE
ROOF ONLY
VST VALLEY SET TRUSSES PER MANU

ELEVATION B ROOF FRAMING PLAN
1/8" = 1'-0"

Engineering Tech Associates, P.A.
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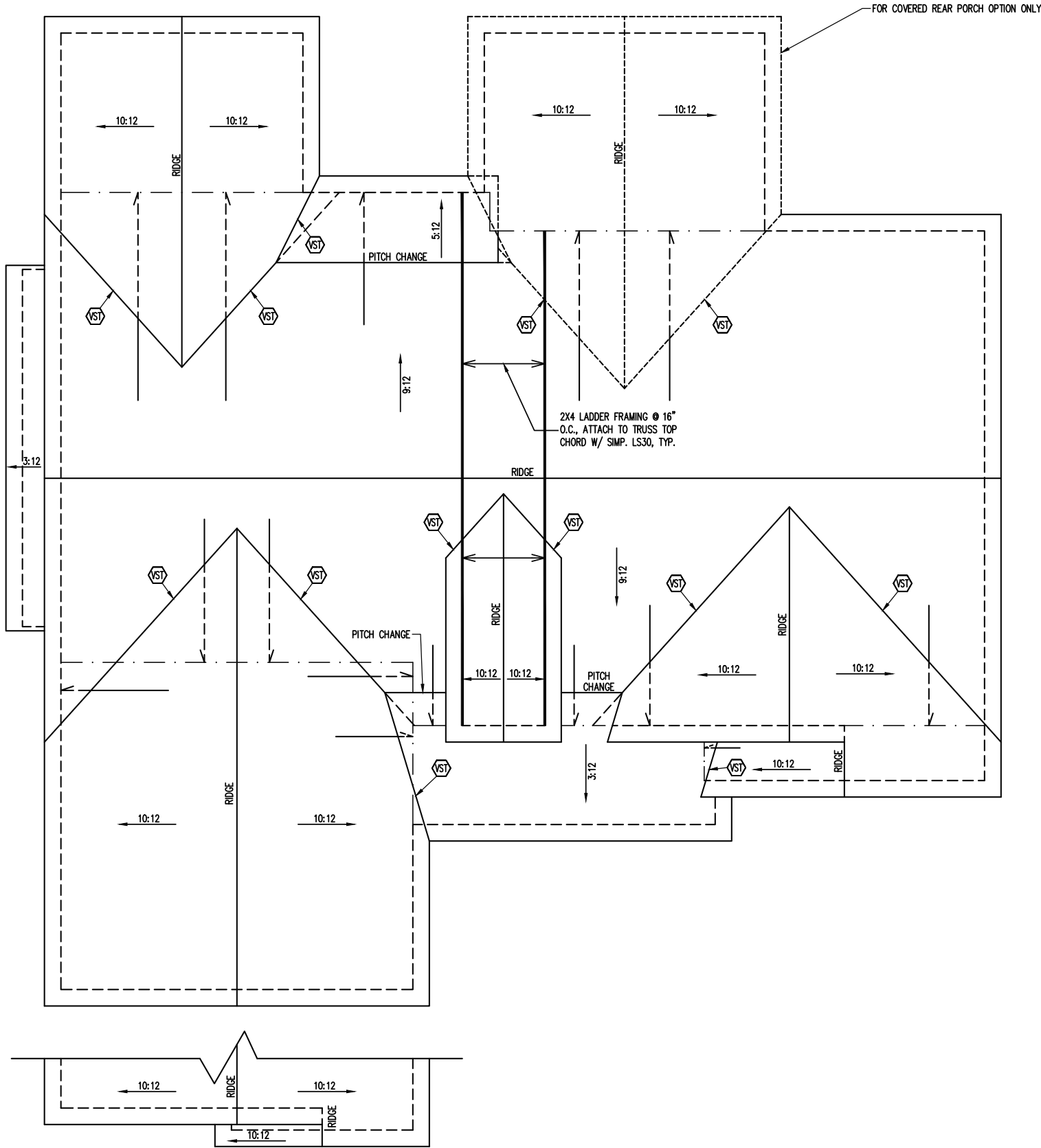
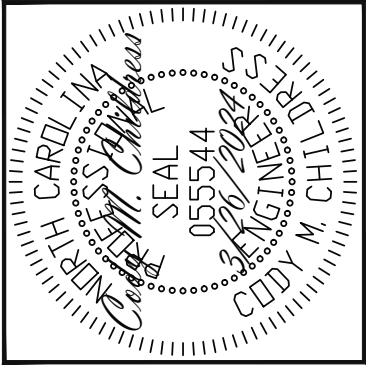
SCOPE	CHAMBERLAIN HOMES, LLC			
	STRUCTURAL ADDENDUM			
	REV #	REF PROJ #	DATE	
	MASTER MONTANA			

ENG: CMC/JKM
DATE: 3/26/2024

PROJECT NO.
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ROOF FRAMING PLAN

SIDE LOAD GARAGE OPTION FOR ELEVATION C ONLY: 1/8" = 1'-0"

TRUSS UPLIFT CONNECTORS

EXPOSURE B, 120 MPH, ANY PITCH
24" O.C. MAX ROOF TRUSS SPACING

TRUSSES SHALL BE ATTACHED TO SUPPORT WALL FOR UPLIFT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE BELOW.

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

ROOF SPAN UP TO 18'	CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION
OVER 18'	(1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM

FRAMING NOTES

ROOF ONLY

- ROOF TRUSSES PER MANU. TYPICAL U.N.O.
- VERIFY ALL HEEL HEIGHTS, ROOF PITCHES, AND ARCHITECTURAL OVERHANGS PRIOR TO CONSTRUCTION

FRAMING SCHEDULE

ROOF ONLY

VST VALLEY SET TRUSSES PER MANU

ELEVATION C ROOF FRAMING PLAN

1/8" = 1'-0"

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318 W Millbrook Rd. Unit 201
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Phone (919) 844-1661

CHAMBERLAIN HOMES, LLC

STRUCTURAL ADDENDUM

SCOPE:

REV # REF PROJ # DATE

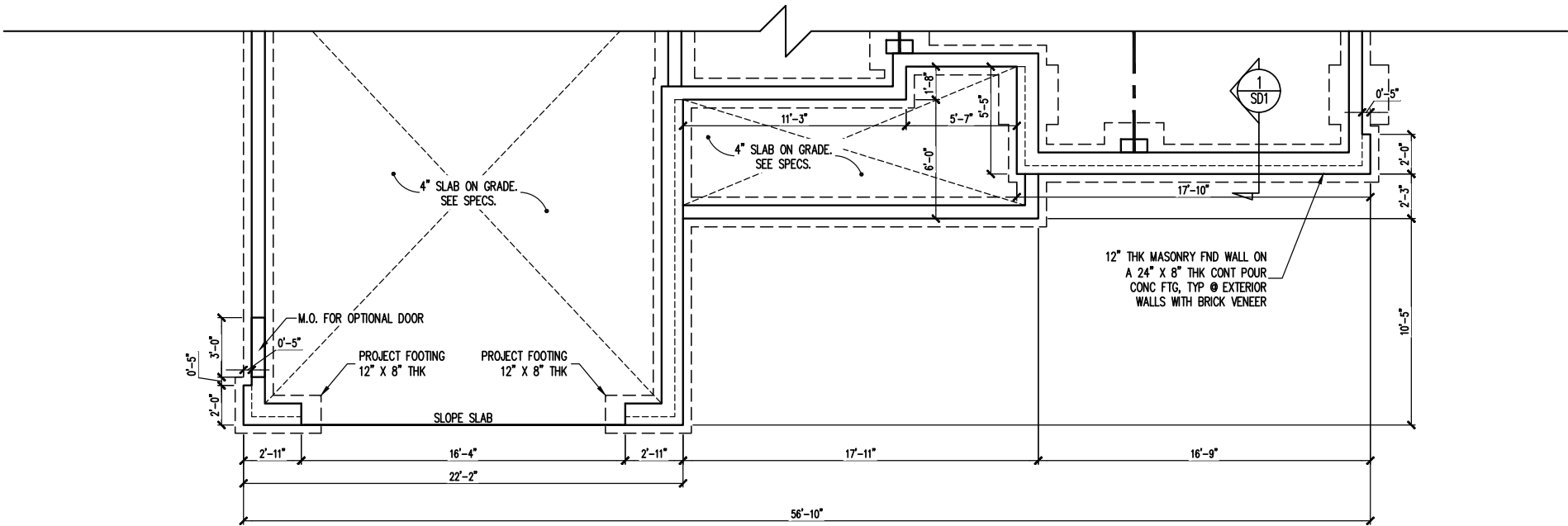
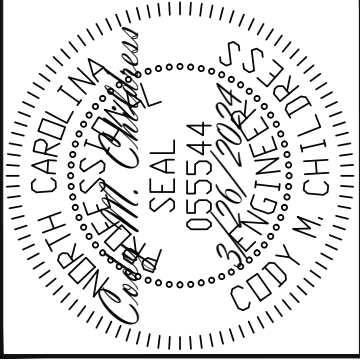
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ENG: CMC/JKM
DATE: 3/26/2024

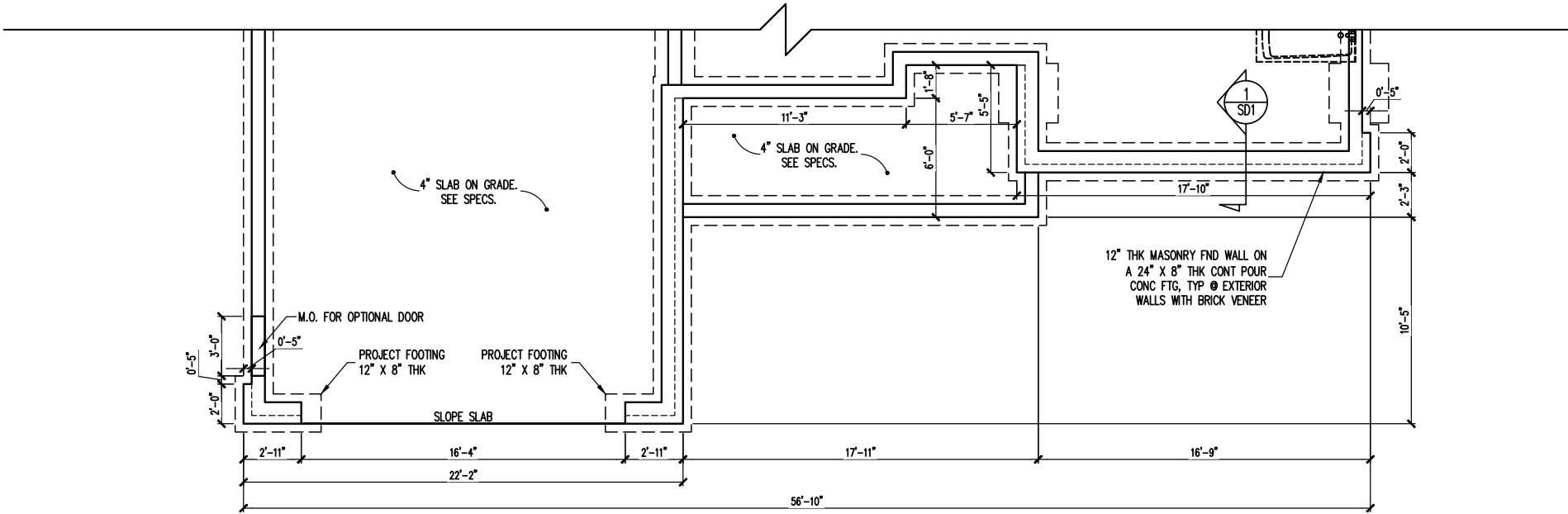
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FRONT BRICK ACCENTS OPTION FOUNDATION PLAN
DRAWING SPACE OPTION: 1/8" = 1'-0"



FRONT BRICK ACCENTS OPTION FOUNDATION PLAN
STEM WALL SLAB OPTION: 1/8" = 1'-0"

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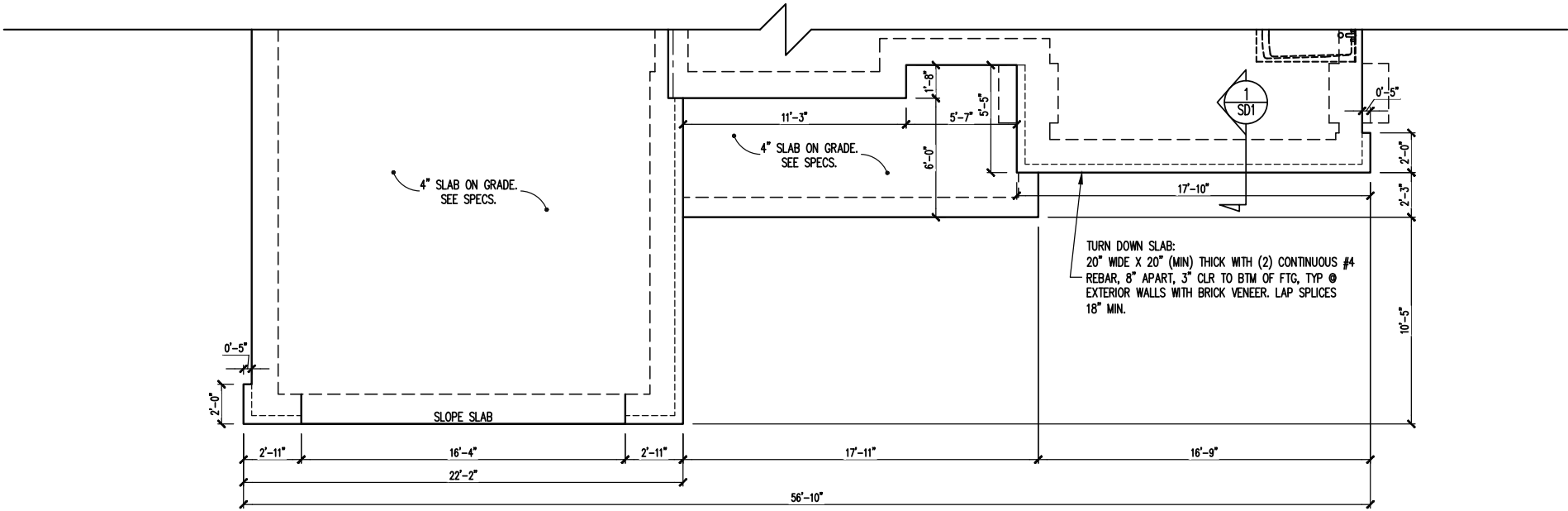
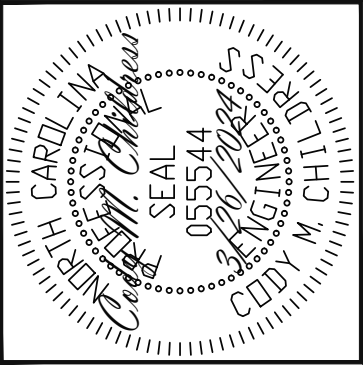
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	STRUCTURAL ADDENDUM		
	REV #	REF PROJ #	DATE
	MASTER MONTANA		

ENG: CMC/JKM
DATE: 3/26/2024

PROJECT NO.
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FRONT BRICK ACCENTS OPTION FOUNDATION PLAN
MONOSLAB OPTION: 1/8" = 1'-0"

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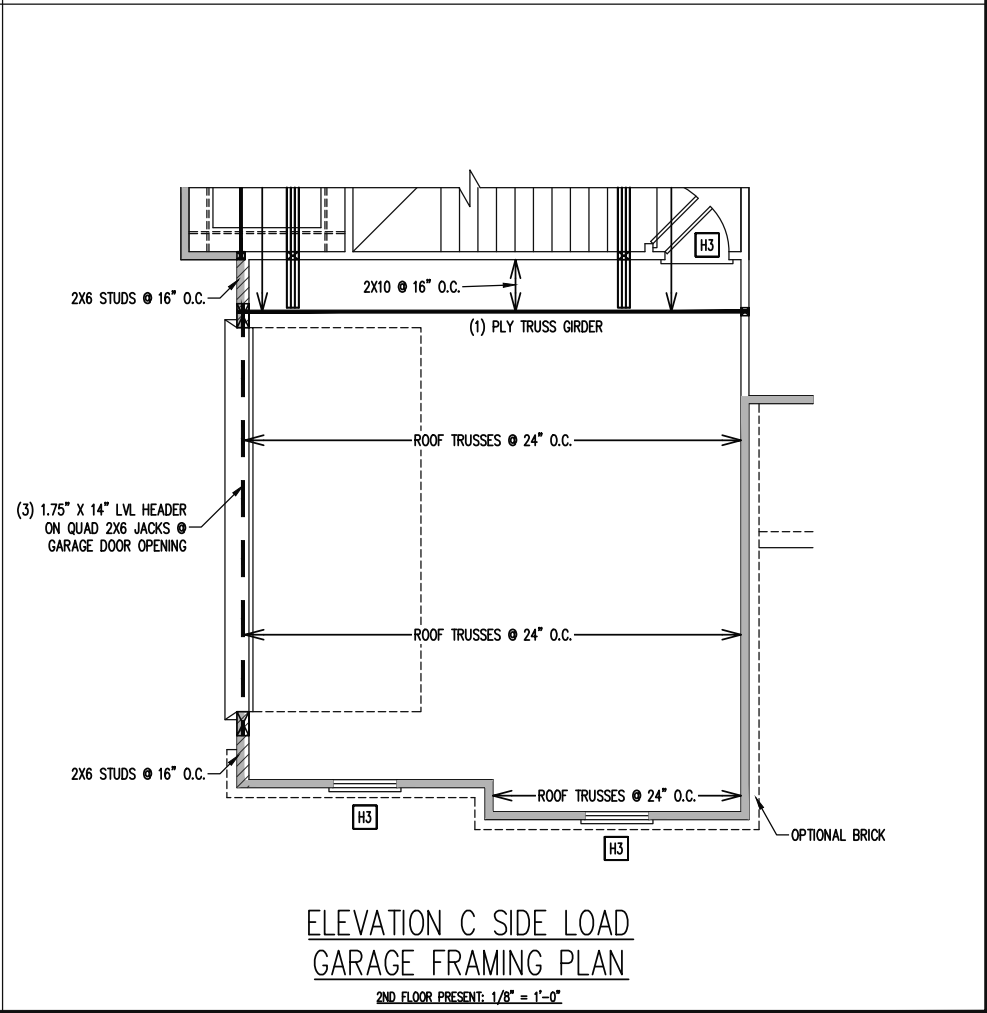
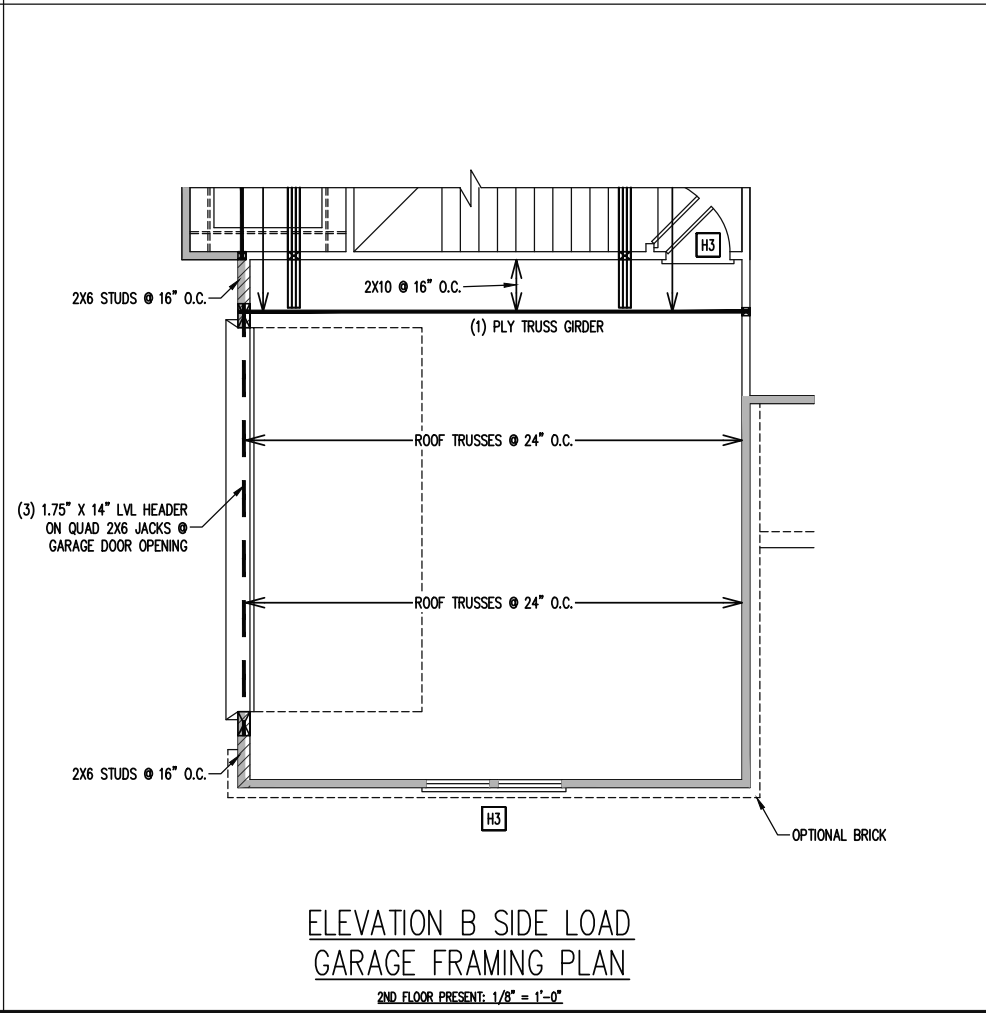
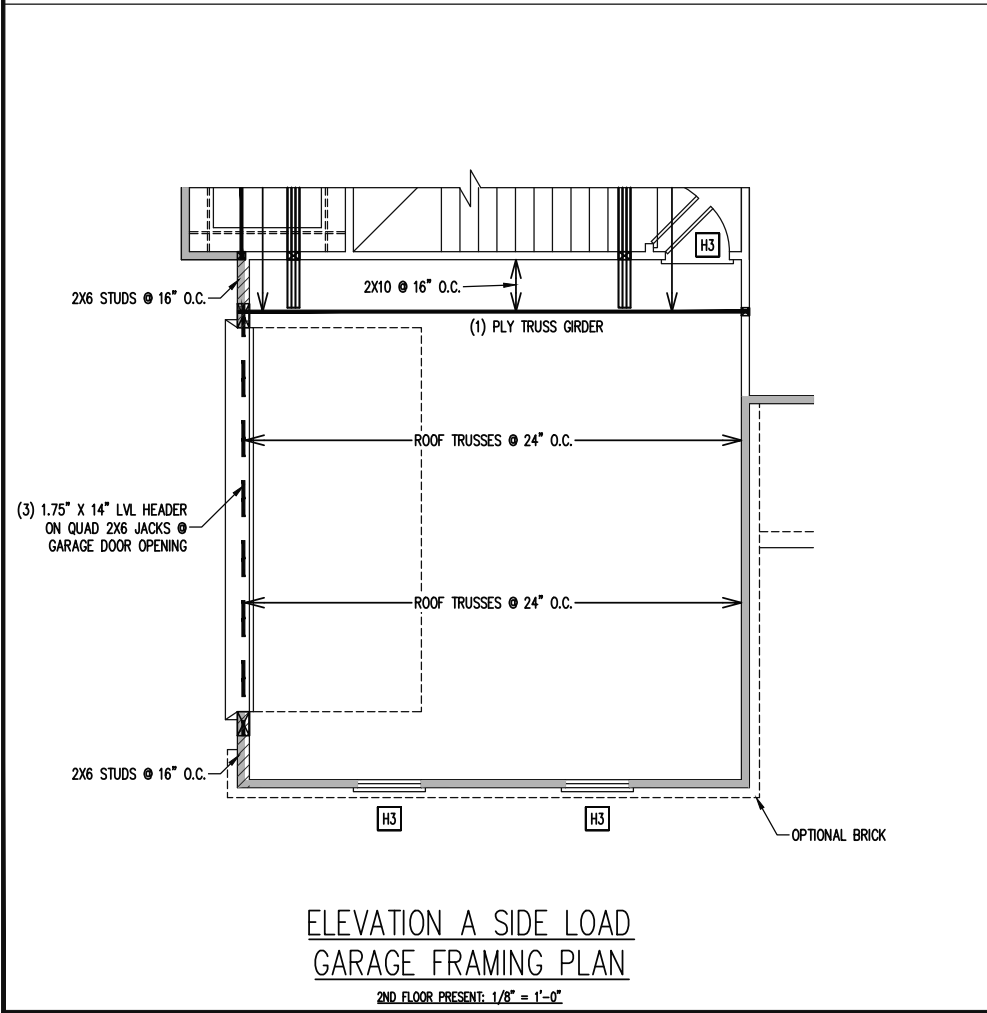
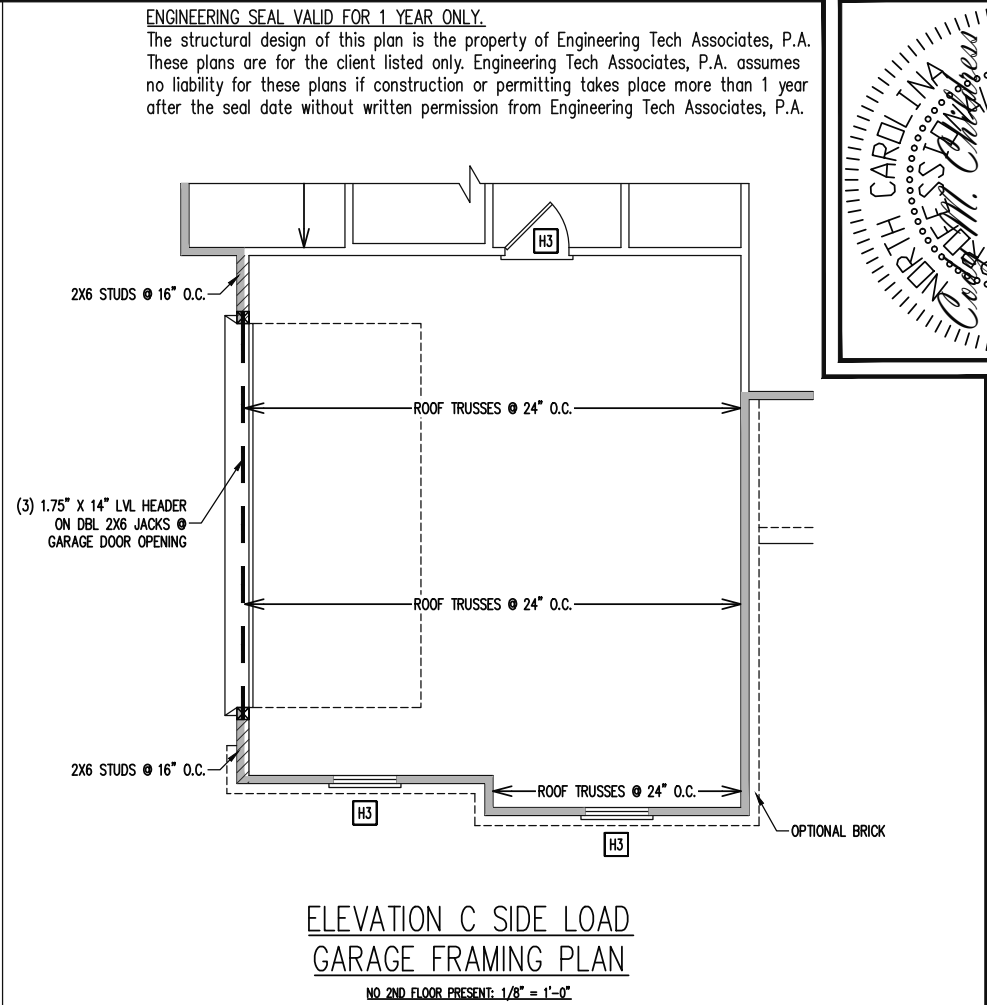
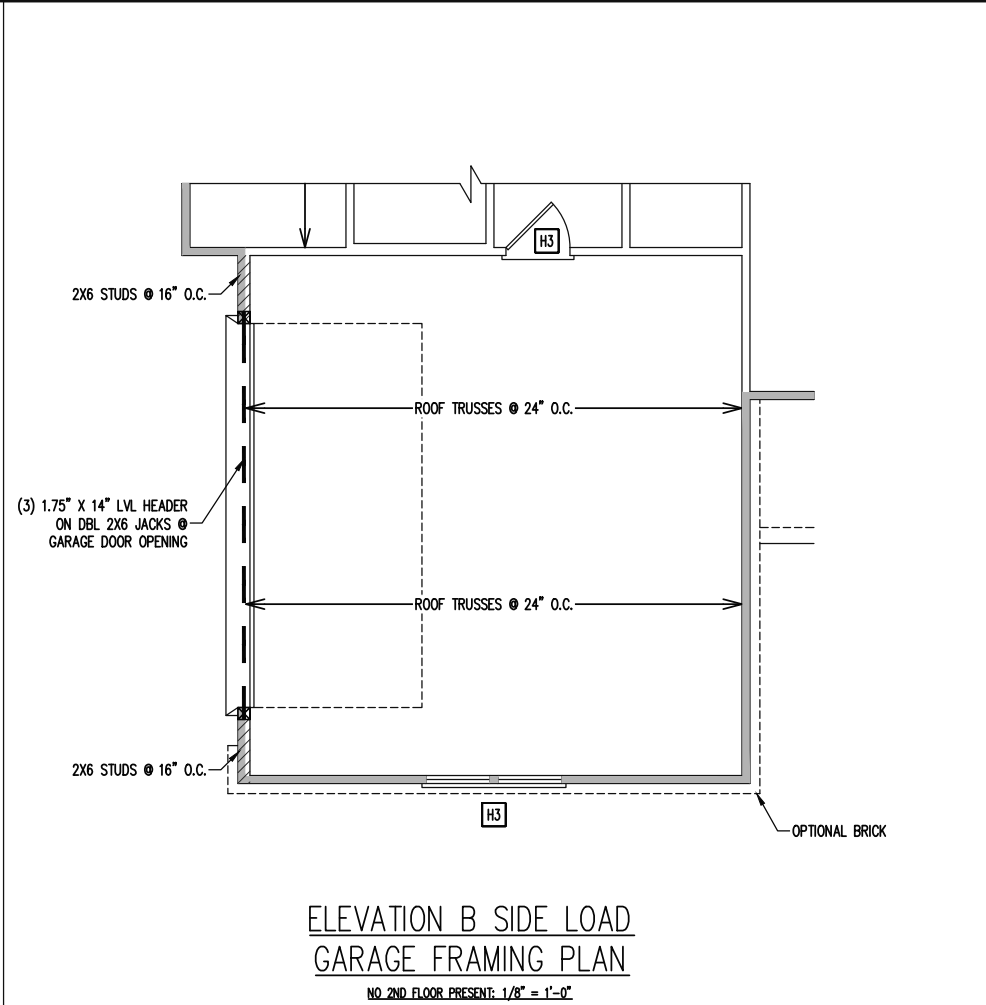
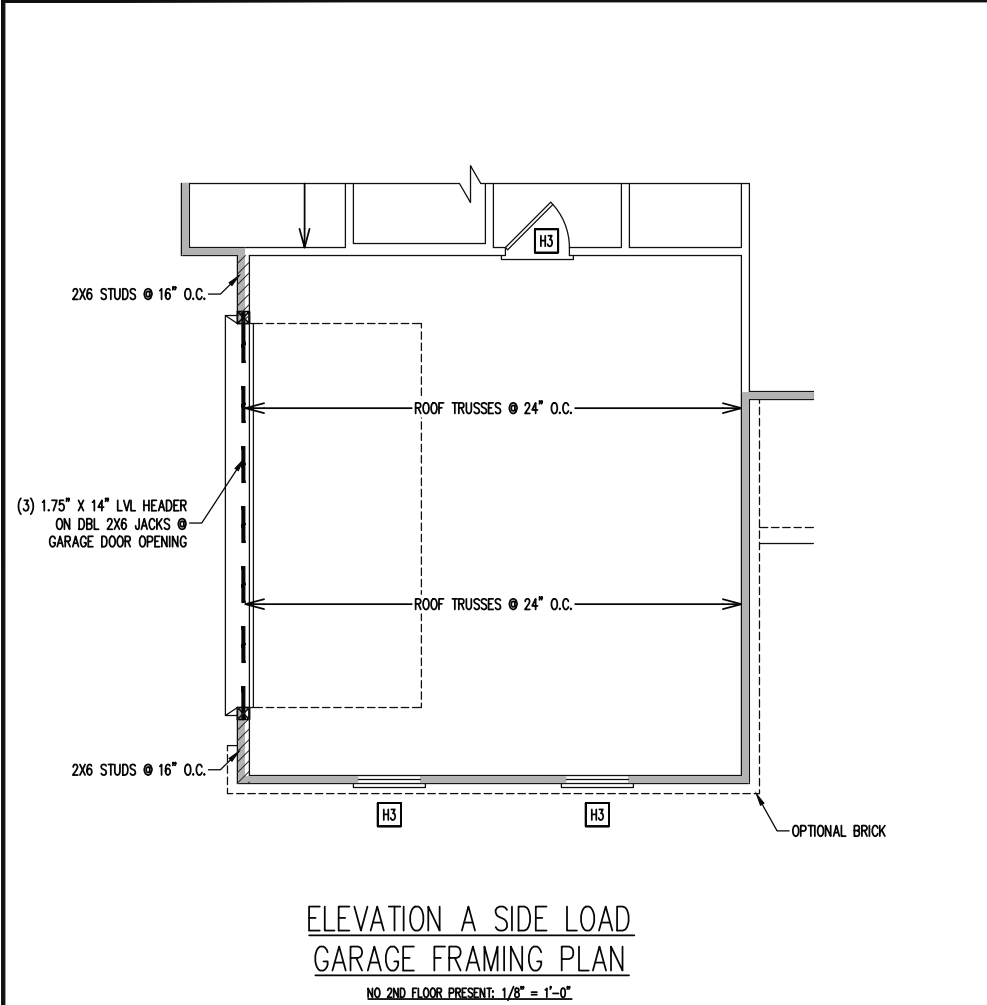
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	STRUCTURAL ADDENDUM			
	MASTER MONTANA	REV #	REF PROJ #	DATE

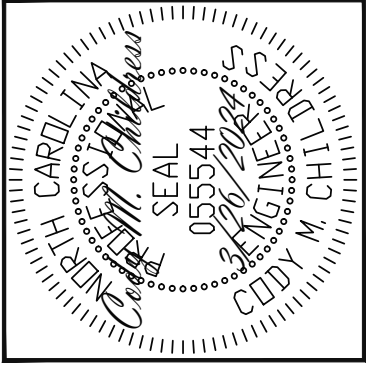
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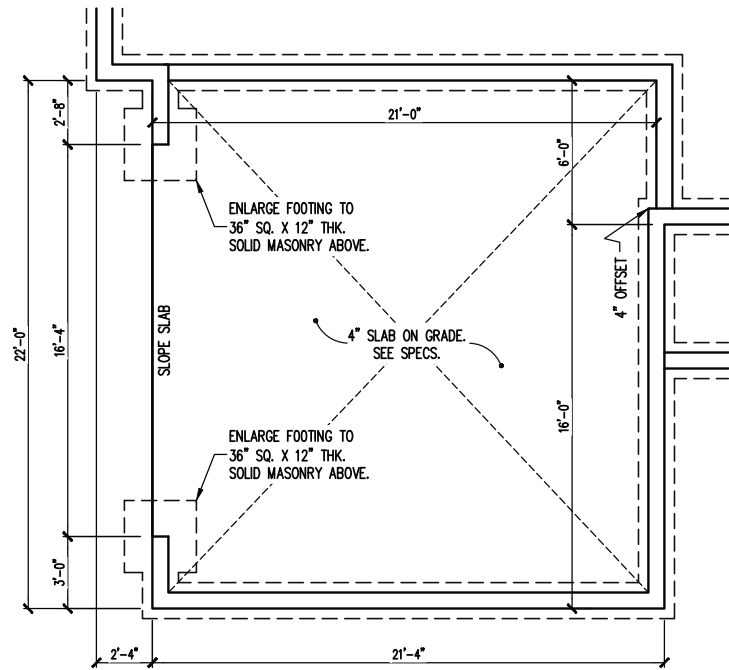
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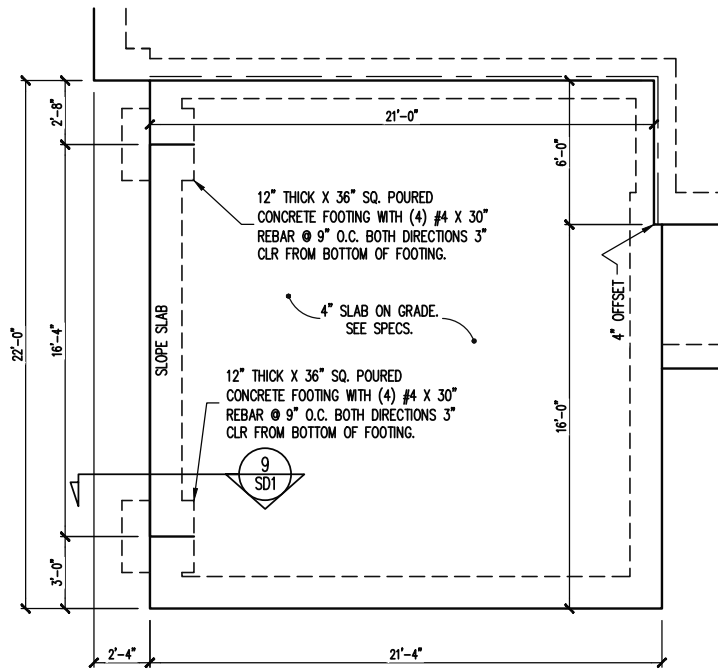
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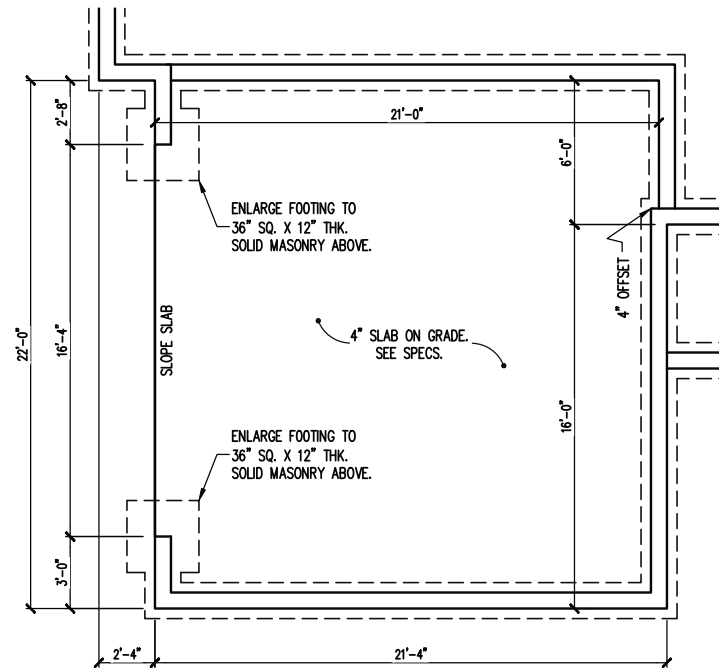
ELEVATION A AND B SIDE LOAD
GARAGE FOUNDATION PLAN

CRAWLSPACE OPTION: 1/8" = 1'-0"



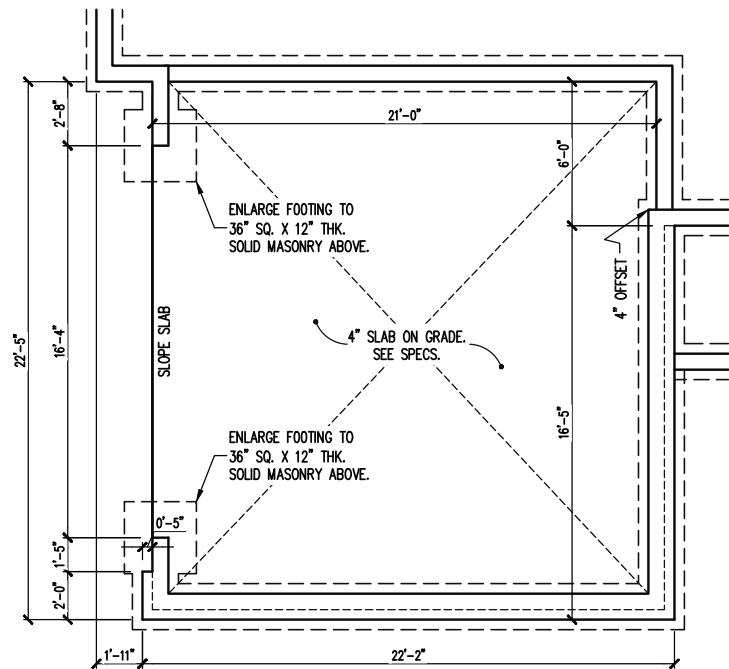
ELEVATION A AND B SIDE LOAD GARAGE

MONOSLAB OPTION: 1/8" = 1'-0"



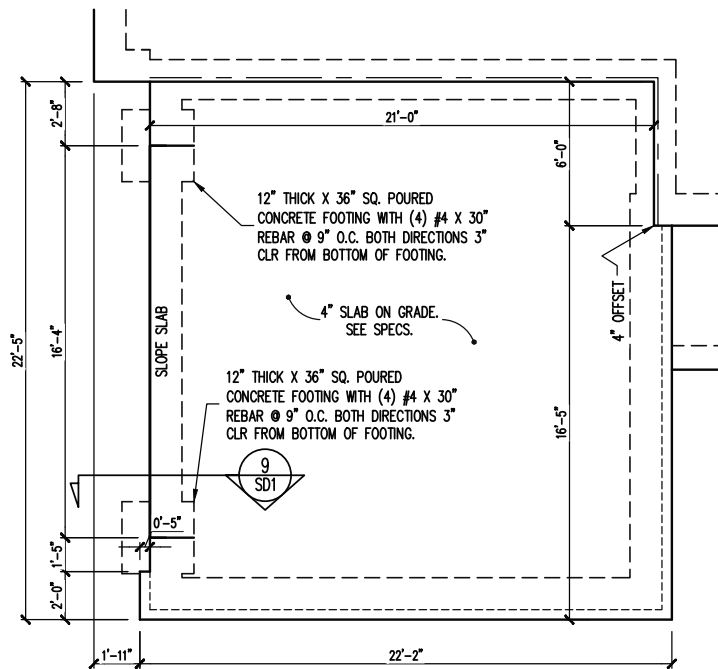
ELEVATION A AND B SIDE LOAD GARAGE

STEM WALL SLAB OPTION: 1/8" = 1'-0"



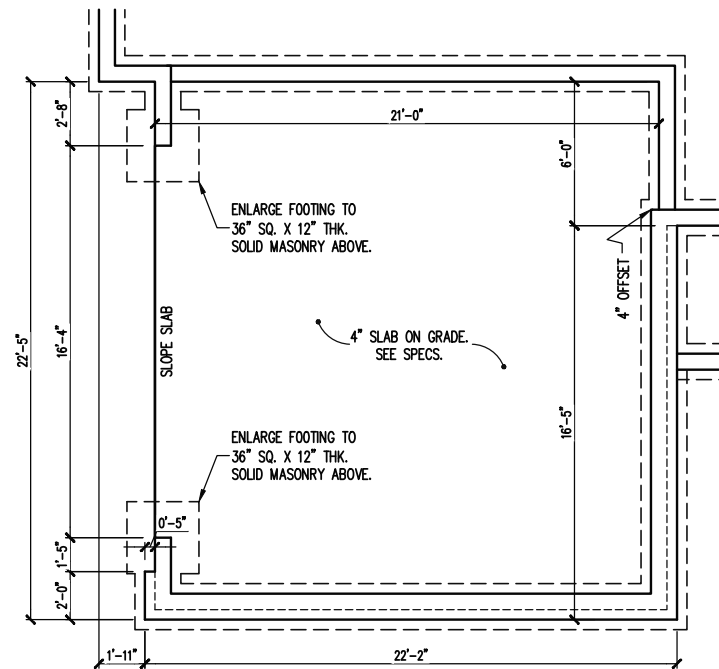
ELEVATION A AND B SIDE LOAD GARAGE
W/ FRONT BRICK OPTION

CRAWLSPACE OPTION: 1/8" = 1'-0"



ELEVATION A AND B SIDE LOAD GARAGE
W/ FRONT BRICK OPTION

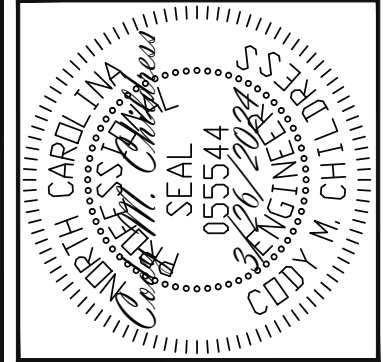
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ELEVATION A AND B SIDE LOAD GARAGE
W/ FRONT BRICK OPTION

STEM WALL SLAB OPTION: 1/8" = 1'-0"

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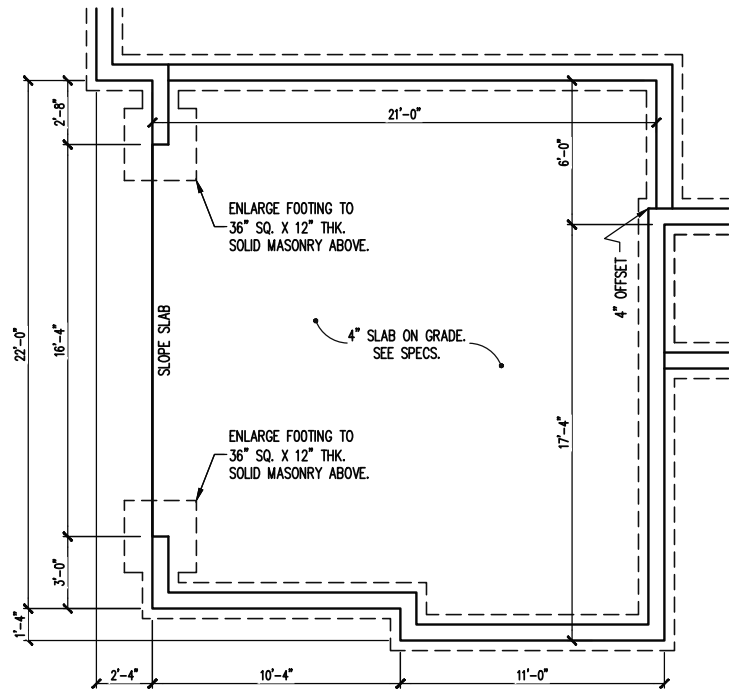
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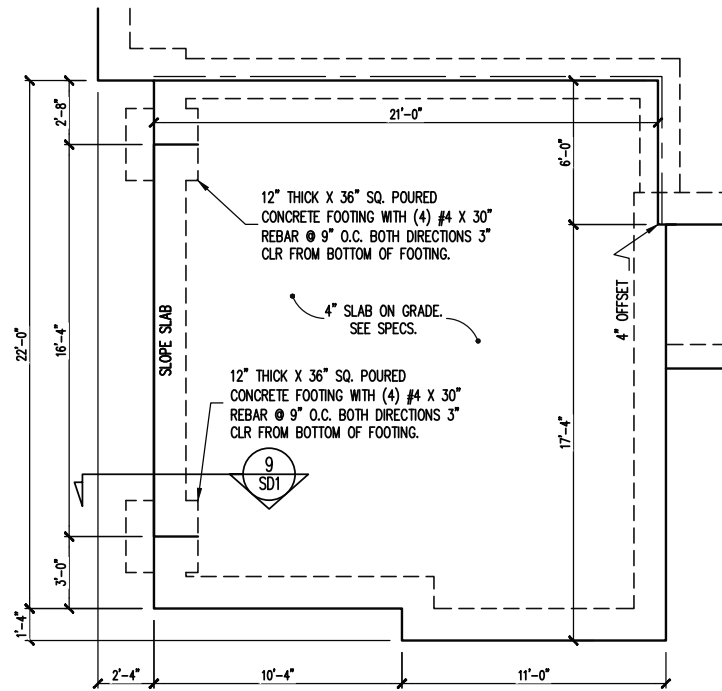
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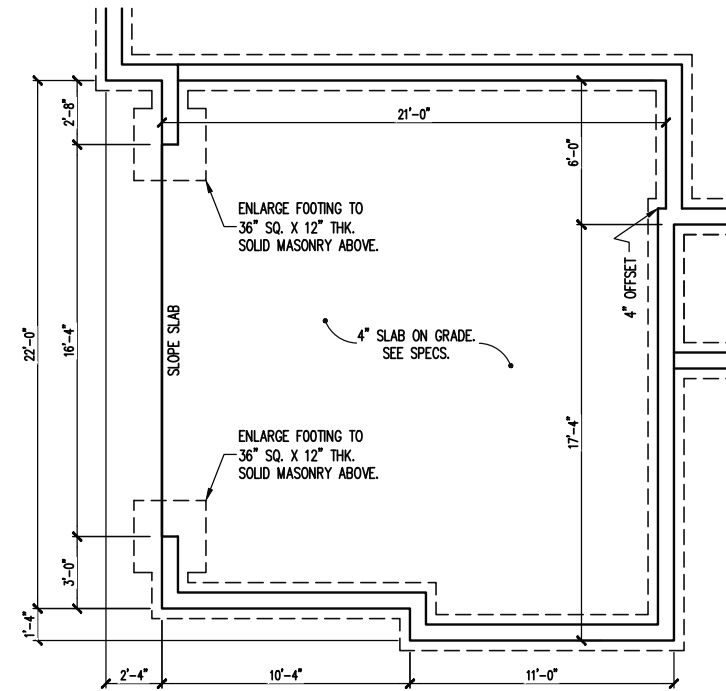
ELEVATION C SIDE LOAD GARAGE

CRAWLSPACE OPTION: 1/8" = 1'-0"



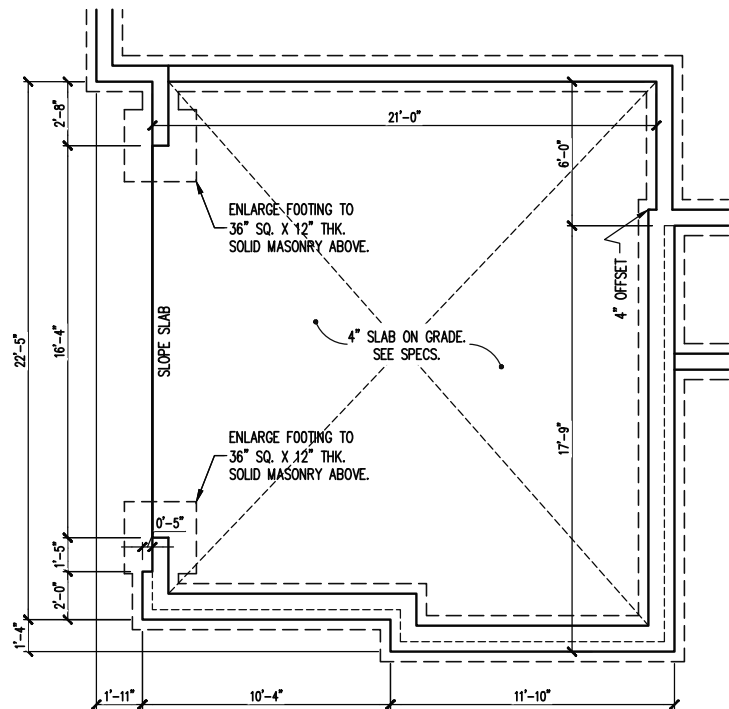
ELEVATION C SIDE LOAD GARAGE

MONOSLAB OPTION: 1/8" = 1'-0"



ELEVATION C SIDE LOAD GARAGE

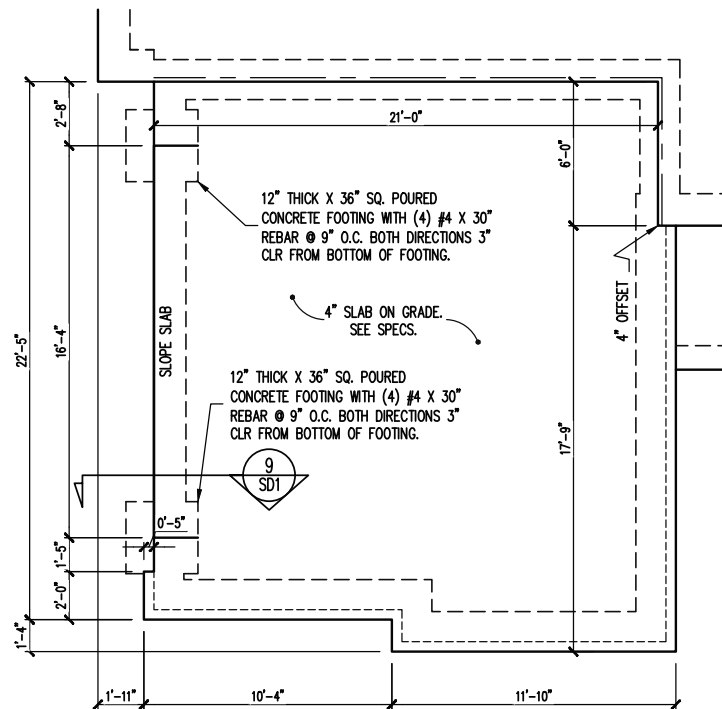
STEM WALL SLAB OPTION: 1/8" = 1'-0"



ELEVATION C SIDE LOAD GARAGE

W/ FRONT BRICK OPTION

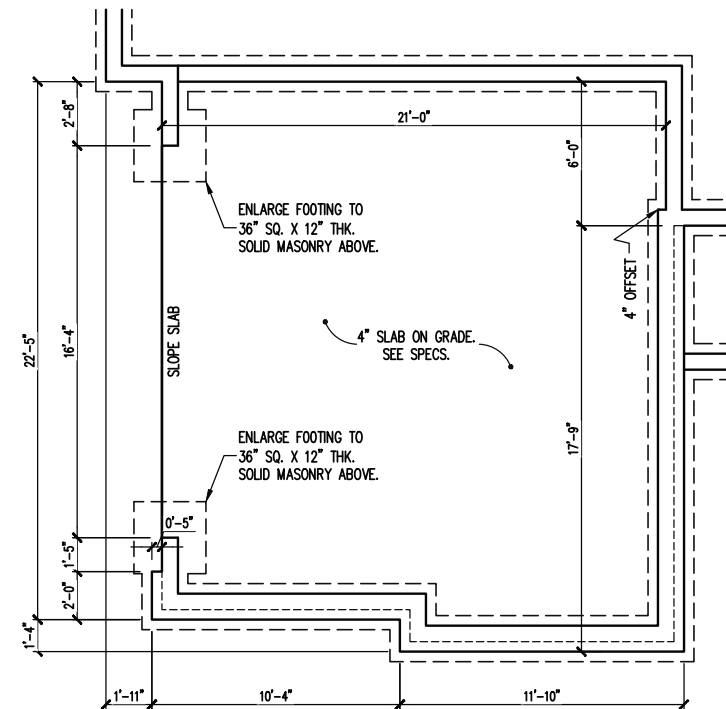
CRAWLSPACE OPTION: 1/8" = 1'-0"



ELEVATION C SIDE LOAD GARAGE

W/ FRONT BRICK OPTION

MONOSLAB OPTION: 1/8" = 1'-0"

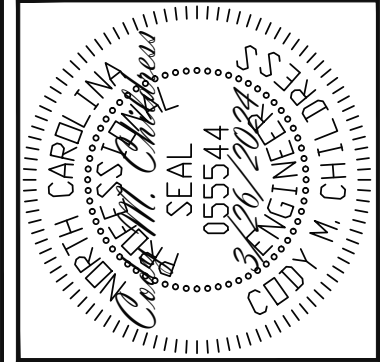


ELEVATION C SIDE LOAD GARAGE

W/ FRONT BRICK OPTION

STEM WALL SLAB OPTION: 1/8" = 1'-0"

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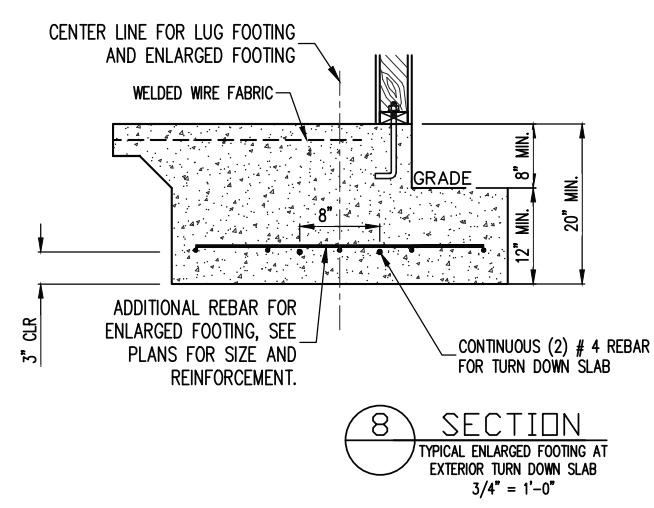
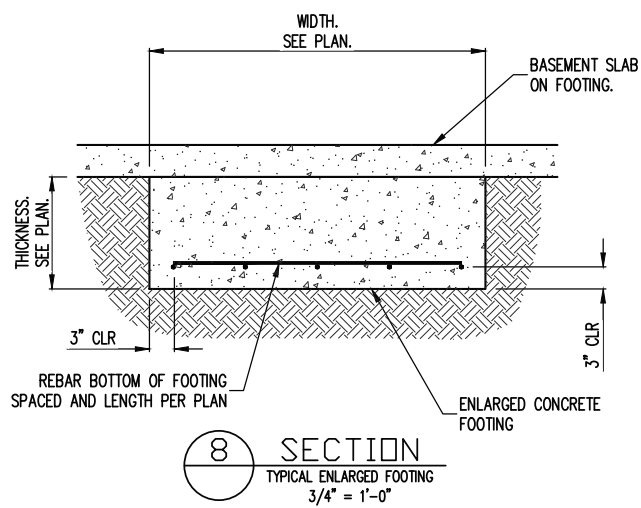
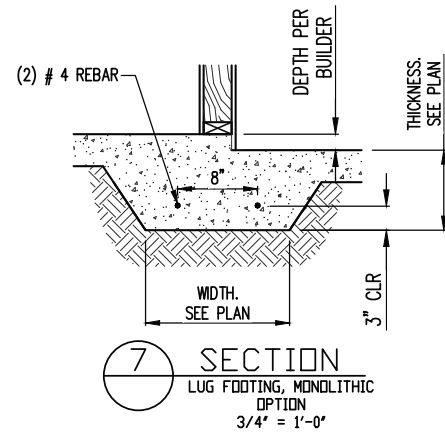
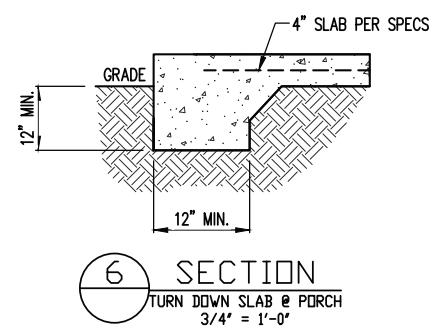
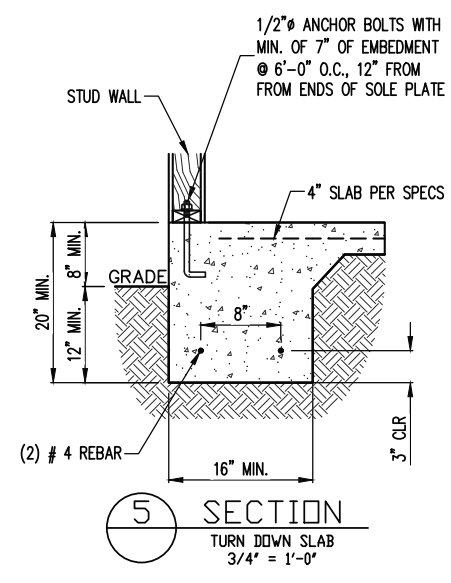
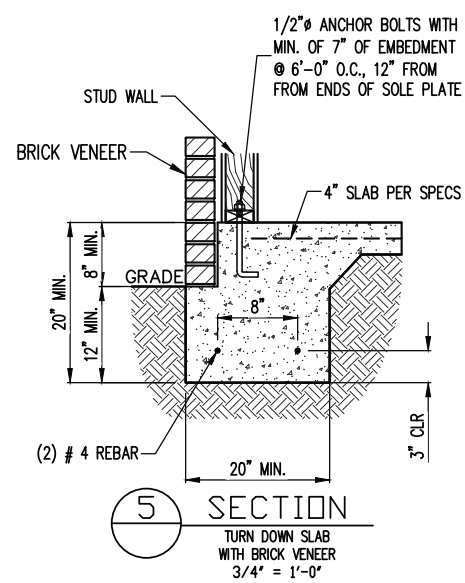
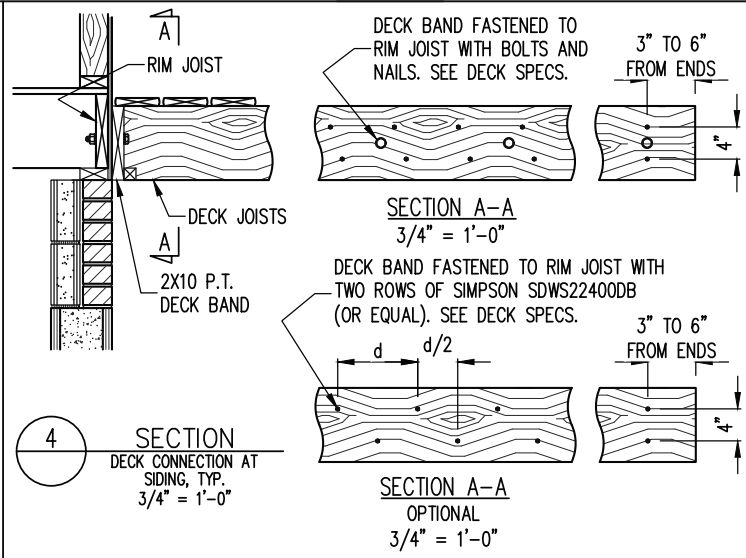
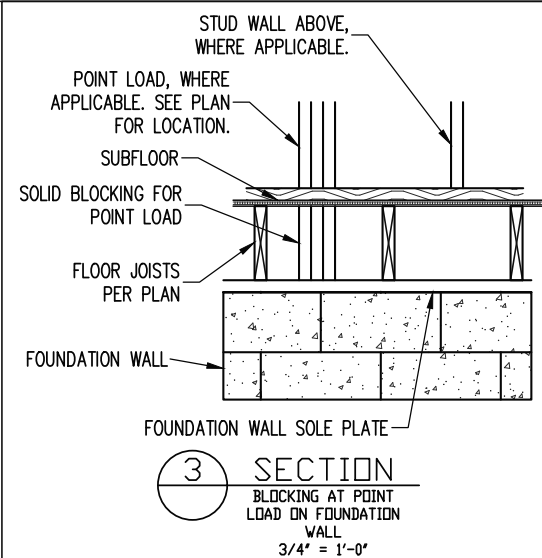
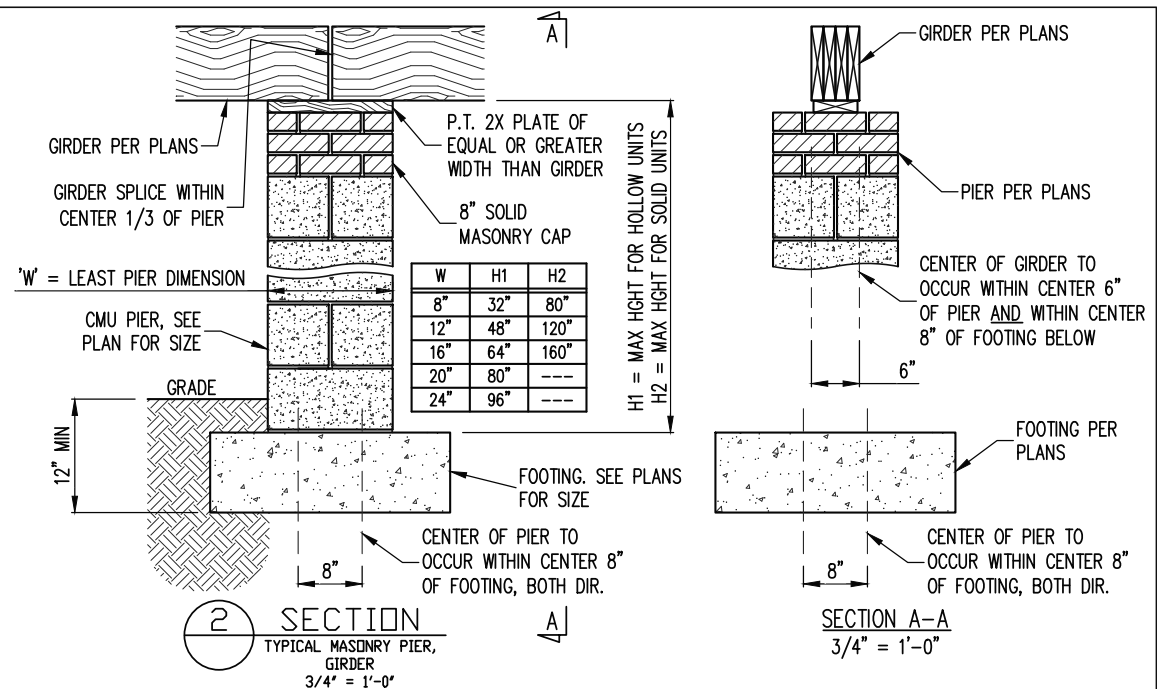
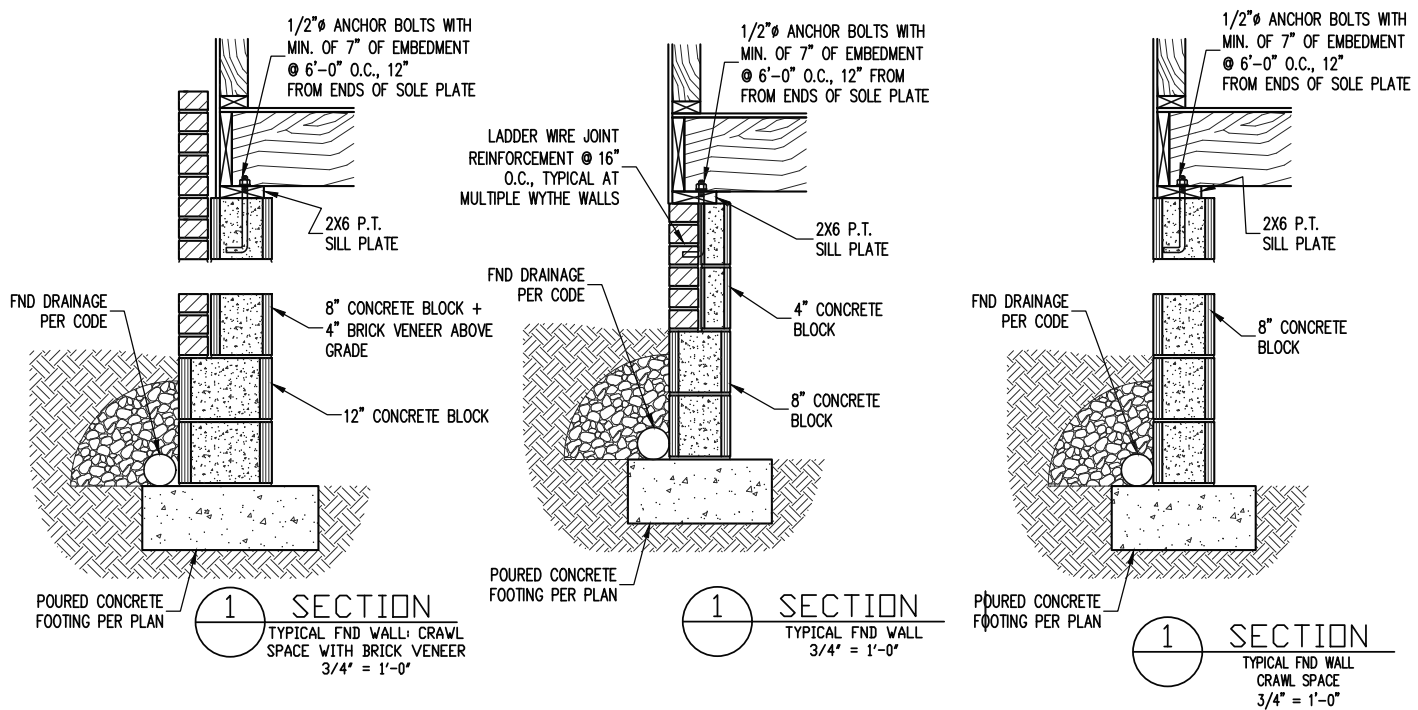
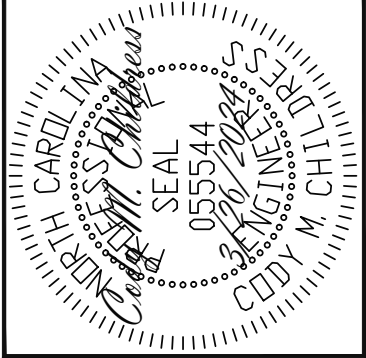
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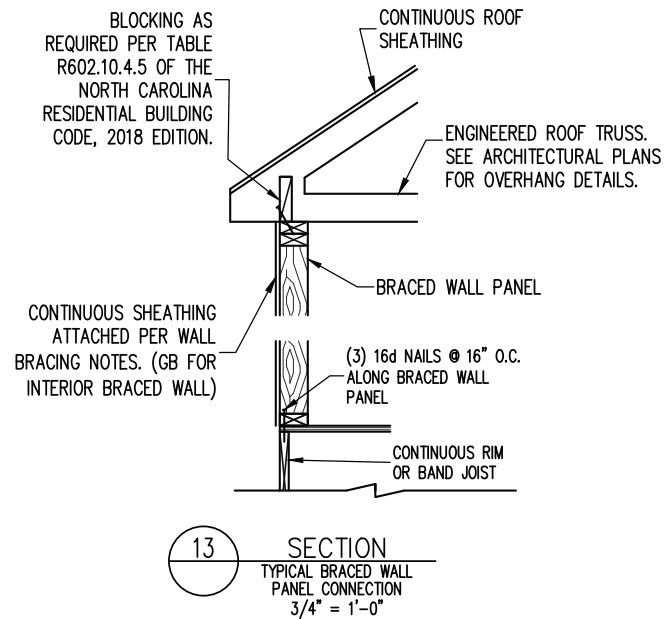
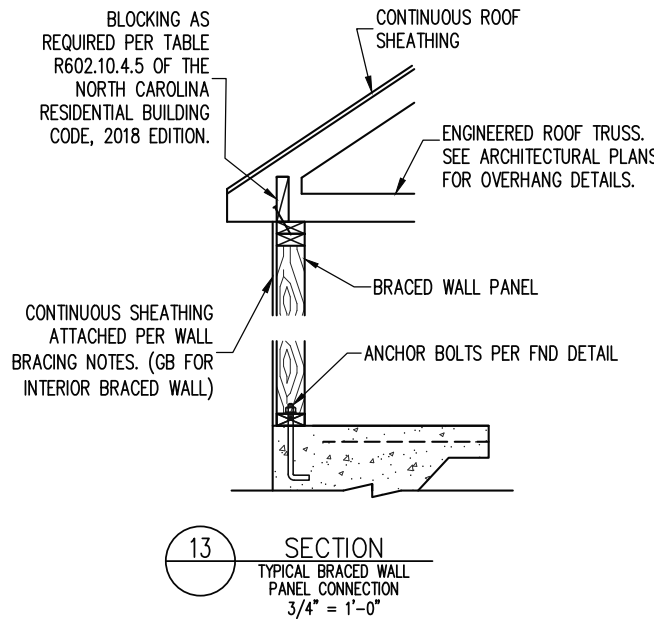
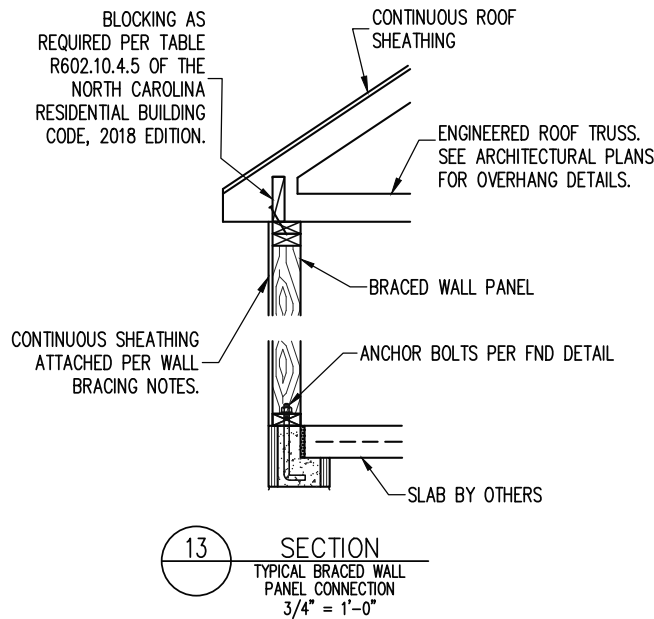
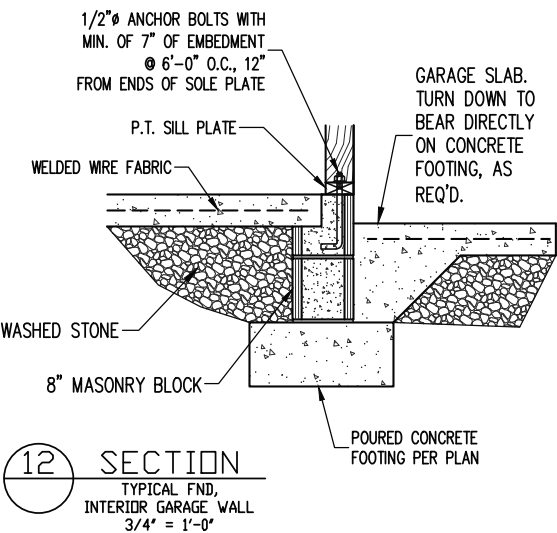
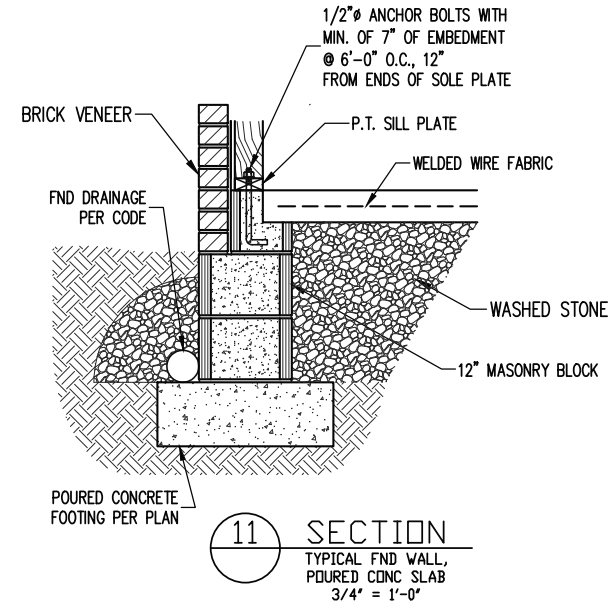
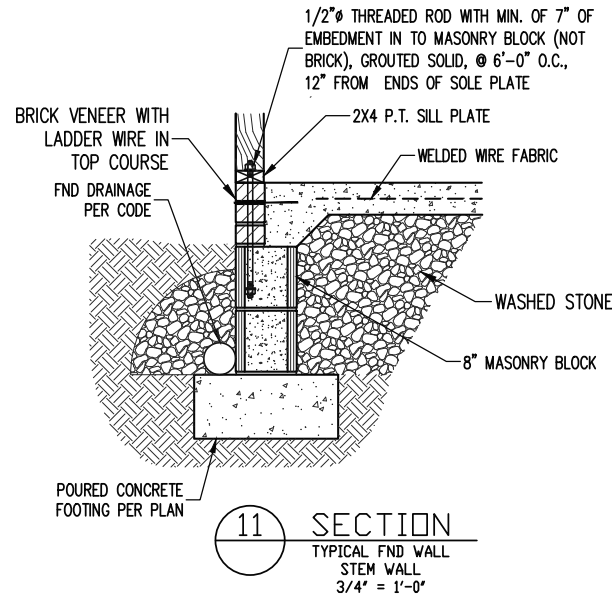
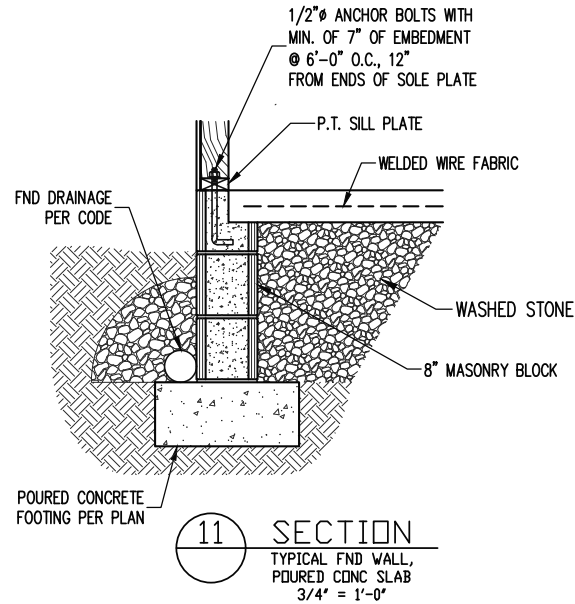
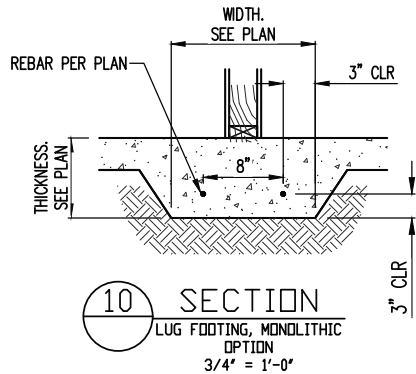
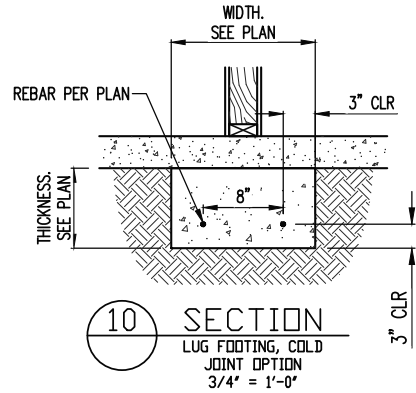
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MASTER MONTANA
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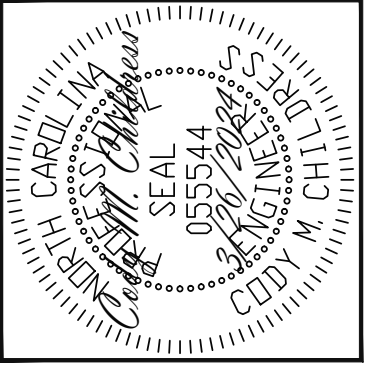
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(2) CONT. 2X TOP PLATES, EXTEND EACH END INTO ADJACENT WALL. NAIL SPLICES WITH 8-16d NAILS PER SPLICE/LAP.

CONT. 2X PLATE WITH 10d NAILS AT 16" O.C. INTO HEADER/BEAM

7/16" O.S.B. OR 15/32" PLYWOOD EXTERIOR WALL SHEATHING AT UNSHADED AREAS (BEAM, INFILL WALL ABOVE BEAM, AND CENTER WALL). NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. IN THE FIELD.

WHERE FULL HEIGHT PANEL WIDTH EXCEEDS 16", PROVIDE ADDITIONAL STUDS AT 16" O.C. NAIL SHEATHING TO ALL STUDS WITH 8d NAILS AT 3" O.C.

FOR A PANEL SPLICE (IF NEEDED), PANEL EDGES SHALL OCCUR OVER AND BE NAILED TO COMMON BLOCKING AND OCCUR WITHIN MIDDLE 24" OF WALL HEIGHT. ONE ROW OF 3" O.C. NAILING IS REQUIRED IN EACH PANEL EDGE.

7/16" O.S.B. OR 15/32" PLYWOOD EXTERIOR WALL SHEATHING. AT SHADED AREAS NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 3" O.C.

(2)2x STUD MIN. AT START AND END OF WALL SEGMENTS EACH SIDE OF OPENING. SEE PLANS FOR ADDITIONAL STUDS

2x4 P.T. PLATE WITH TWO 1/2" DIA x 7" EMBED ANCHOR BOLTS WITH A 3/16"x2"x2" PLATE WASHERS OR ADDITIONAL HOLDOWN PER PLANS. OPTION: (2) 5/8" DIA. THREADED RODS INSTALLED PER SECTION R602.10.4.3 OF THE NCRBC, LATEST EDITION.

MINIMUM 3"x11 1/4" CONTINUOUS BEAM FULL LENGTH OF FRAME, SEE PLANS FOR SIZE

NAIL THE SHEATHING IN SHADED AREA TO BEAM WITH 8d NAILS AT 3" O.C. EACH WAY

(2) ROWS 16d NAILS AT 3" O.C.

(2) SIMPSON CS16 x 48" LONG COIL STRAPS WITH 10d NAILS EACH HOLE ON INSIDE FACE OF WALL

14 SECTION
PORTAL FRAME WALL
3/4" = 1'-0"

CONCRETE OR MASONRY FND WALL. MASONRY FND WALLS LESS THAN 48" WIDE SHALL BE REINFORCED PER SECTION R602.10.4.3 OF THE NCRBC, LATEST EDITION.

EXTERIOR STUD WALL

(2) ROWS OF (2) 1/2" DIA LAG SCREWS, HDG, 3" MIN EMBED INTO ADJACENT MEMBER. 2" EDGE DIST

P.T. 6X6 BRACKETS MOUNTS DIRECTLY TO EXTERIOR STUD WALL

FOR FRONT LOAD GARAGE OPTION:
(2) 5/8" DIA. THROUGH BOLTS, HDG, BOLT TO SOLID 6X6 POST USING 1" DIA. WASHER, COUNTERSINK 1", 1.5" EDGE DIST. ON 6X6

FOR SIDE LOAD GARAGE OPTION:
(2) 5/8" DIA. THROUGH BOLT, HDG, BOLT TO SOLID 4X6 POST USING 1" DIA. WASHER, COUNTERSINK 1", 1.5" EDGE DIST. ON 4X6

16 SECTION
S9 SHED ROOF ATTACHMENT, ELEVATION B
3/4" = 1'-0"

2X NAILER, ATTACHED WITH STUDS WITH (3) 10d NAILS @ 16" O.C.

2X8 RAFTER @ 16" O.C., TOE NAIL TO NAILER WITH (4) 16d NAILS @ 16" O.C.

ATTACH RAFTERS TO BEAM W/ (2) ROWS OF SDWS22400DB

6X10 SOLID SAWN CEDAR BEAM NO. 1 OR BETTER

(2) ROWS OF SDWS22400DB, 3" MIN EMBED INTO ADJACENT MEMBER. 2" EDGE DIST

(2) ROWS OF SDWS22400DB, 3" MIN EMBED INTO ADJACENT MEMBER. 2" EDGE DIST

ROOF TRUSS GIRDER PER MANU.

SIMPSON LGT3 GIRDER TIE.

SIMPSON DTT2Z-SDS2.5

1/2" Ø x 8" LONG SIMP. TITEN HD

17 SECTION
S6 UPLIFT HOLD DOWN AT TRUSS GIRDER
3/4" = 1'-0"

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, WHO SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

PART 2: DESIGN LOADS

2.01 DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:

USE	LIVE LOAD (PSF)	DEAD LOAD (PSF)
BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS, DWELLING UNITS INCLUDING ATTIC WITH FIXED STAIR ACCESS, STAIRS, FIRE ESCAPES	40	10
GARAGES (PASSENGER CARS ONLY)	50	—
ATTICS (NO STORAGE, LESS THAN 5' HEADROOM)	10	10
ATTICS (WITH STORAGE)	20	10
ROOF	20	10 (15 FOR VAULTS)

NOTES: - INDIVIDUAL STAIR TREADS ARE TO BE DESIGNED FOR THE UNIFORMLY DISTRIBUTED LIVE LOAD OF 40 PSF OR A 300 LB. CONCENTRATED LOAD ACTING OVER AN AREA OF 4 SQ. WHATEVER PRODUCES THE GREATER STRESS.
- BUILDER TO VERIFY DEAD LOAD DOES NOT EXCEED 10 PSF WHEN HEAVY FLOOR OR ROOF FINISHES SUCH AS TILE OR SLATE ARE UTILIZED. NOTIFY ENGINEERING UNDER THESE CONDITIONS

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 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

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 5: CONCRETE AND SLABS ON GRADE

5.01 CAST IN PLACE CONCRETE SHALL BE OF NORMAL WEIGHT, 6X AIR ENTRAINMENT, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP UNO. ALL CONCRETE, INCLUDING CONCRETE FOR FOOTINGS, IS 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.

5.03 SLABS ON GRADE, IF ANY, SHALL CONTAIN SYNTHETIC POLYPROPYLENE FIBRILLATED MICRO FIBERS, FIBER LENGTH 1 1/2", DOSAGE RATE 1 1/2 LBS/CY YD. SLAB TO BE PLACED ON A 6 MIL VAPOR BARRIER OR 4" MIN GRANULAR FILL ON SOIL WITH 80% 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.

PART 7: MASONRY

7.01 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT, FM = 1,500 PSI MIN

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

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

8.02 LAG SCREWS SHALL CONFORM TO ANS/ASME STANDARD B18.2.1-1981. 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

8.03 ANCHOR RODS AND BOLTS SHALL CONFORM TO ASTM F1554-15 GRADE 36 UNO. BENT ANCHOR BOLTS SHALL HAVE A 2" MIN HOOK UNO

PART 9: DRIVEN FASTENERS

9.01 NAILS, SPIKES AND STAPLES SHALL CONFORM TO ASTM F 1667-05. NAILS ARE TO BE COMMON WIRE OR BOX

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:

E = 1.9 X 10E6 PSI, Fb = 2600 PSI, Fv = 285 PSI, Fc = 750 PSI

LSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS:

E = 1.3 X 10E6 PSI, Fb = 1700 PSI, Fv = 400 PSI, Fc = 680 PSI

11.02 LVL OR PSL MEMBERS MAY BE RIPPE 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 ANPA STANDARD C-15. ALL OTHER EXPOSED LUMBER SHALL BE TREATED IN ACCORDANCE WITH ANPA STANDARD C-2 OR BY ANY METHOD PROVIDING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL DECAY RESISTANT WOOD PER SECTION 19-6(a)

PART 13: STEEL FLUTE PLATE BEAMS

13.01 FLUTE PLATE BEAMS SHALL CONSIST OF A CONTINUOUS STEEL PLATE BOLTED BETWEEN TWO PIECES OF CONTINUOUS LUMBER AS SIZED ON THE PLANS. BOLT PIECES TOGETHER USING 1/2" Ø BOLTS SPACED AT 24" O.C. STAGGERED TOP TO BOTTOM OF THE BEAM. MAINTAIN A 2" EDGE DISTANCE. PLACE TWO BOLTS, ONE ABOVE THE OTHER, Ø ± 2" FROM EACH END OF THE BEAM.

PART 14: STUD SUPPORTS FOR BEAMS

14.01 STEEL, ENGINEERED LUMBER, AND FLUTE 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

2-BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A MINIMUM OF 4 1/2" ONTO THE WALL AND BE SUPPORTED BY A TRIPLE STUD GANGED COLUMN TYP UNO.

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 RM JOIST WHERE APPLICABLE) AND SHALL BE SUPPORTED BY A

DECK SPECIFICATIONS

1. A DECK IS AN EXPOSED EXTERIOR WOOD FLOOR STRUCTURE WHICH MAY BE ATTACHED TO A STRUCTURE OR BE FREE STANDING. ROOFED 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 UNTREATED FRAMING OF THE STRUCTURE. THE DECK BAND AND THE STRUCTURE BAND SHALL BE CONSTRUCTED IN CONTACT WITH EACH OTHER EXCEPT AT BRICK VENER AND WHERE PLYWOOD 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

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

REQUIRED FASTENERS	JOIST LENGTH	
	UP TO 8' MAX.	UP TO 16' MAX.
ONE - 5/8" Ø BOLT @ 42" O.C. AND (2) ROWS OF 12d NAILS @ 8" O.C. OR TWO ROWS OF SIMPSON SDWS22400DB Ø d = 32" O.C. STAGGERED	ONE - 5/8" Ø BOLT @ 20" O.C. AND (3) ROWS OF 12d NAILS @ 6" O.C. OR TWO ROWS OF SIMPSON SDWS22400DB Ø d = 16" O.C. STAGGERED	

A. BRICK VENER STRUCTURES

REQUIRED FASTENERS	JOIST LENGTH	
	UP TO 8' MAX.	UP TO 16' MAX.
ONE - 5/8" Ø BOLT @ 28" O.C.	ONE - 5/8" Ø BOLT @ 16" O.C.	

5. IF THE DECK BAND IS SUPPORTED BY A 1/2" MINIMUM MASONRY LEDGE ALONG THE FOUNDATION WALL, 5/8" Ø 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" Ø BOLTS

8. FLOOR DECKING SHALL BE NO. 2 GRADE TREATED SOUTHERN PINE OR EQUIVALENT. THE MINIMUM FLOOR DECKING THICKNESS SHALL BE AS FOLLOWS:

JOIST SPAN	DECKING
12" O.C.	1" S4S
16" O.C.	1" T&G
24" O.C.	1 1/4" S4S
32" O.C.	2" S4S

MAXIMUM HEIGHT OF DECK SUPPORT POSTS IS AS FOLLOWS:

POST SIZE	MAX POST HEIGHT
4X4	8'
6X6	20'
ENGINEERED	20' +

NOTES: 1) THIS TABLE IS BASED ON NO. 2 TREATED SOUTHERN PINE POSTS.
2) THIS TABLE IS BASED ON A MAXIMUM TRIBUTARY AREA OF 128 SQ. FT.
3) POST HEIGHT IS FROM TOP OF FOOTING TO BOTTOM OF GIRDER.

10. DECKS SHALL BE BRACED TO PROVIDE LATERAL STABILITY BY ONE OF THE FOLLOWING METHODS:

A. WHEN THE DECK FLOOR HEIGHT IS LESS THAN 4'-0" AND THE DECK IS ATTACHED TO THE STRUCTURE IN ACCORDANCE WITH SECTION 4, LATERAL BRACING IS NOT REQUIRED.

B. 4X4 WOOD KNEE BRACES MAY BE PROVIDED ON EACH COLUMN IN BOTH DIRECTIONS. KNEE BRACES SHALL ATTACH TO EACH POST AT A POINT NOT LESS THAN 1/3 OF THE POST LENGTH FROM THE TOP OF THE POST, AND THE BRACES SHALL BE ANGLED BETWEEN 45° AND 60° FROM THE HORIZONTAL. KNEE BRACES SHALL BE ATTACHED AT THE ENDS TO THE GIRDER AND THE POST WITH ONE - 5/8" Ø BOLT

C. FOR FREE STANDING DECKS WITHOUT KNEE BRACES OR DIAGONAL BRACING, LATERAL STABILITY MAY BE PROVIDED BY EMBEDDING THE POSTS IN CONCRETE IN ACCORDANCE WITH THE FOLLOWING:

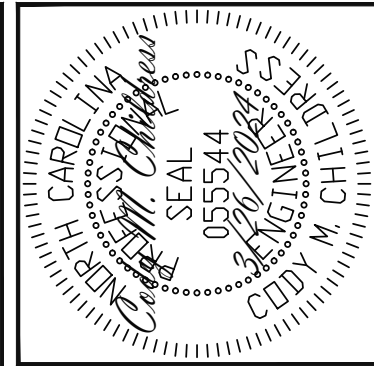
POST SIZE	TRIBUT. AREA	POST HEIGHT	EMB. DEPTH	CONC. DIAM.
4X4	48 SQ. FT.	4'-0"	2'-0"	1'-0"
6X6	120 SQ. FT.	6'-0"	3'-0"	1'-0"

D. 2X6 DIAGONAL VERTICAL CROSS BRACING SHALL BE PROVIDED IN TWO PERPENDICULAR DIRECTIONS FOR FREE STANDING DECKS OR PARALLEL TO THE STRUCTURE AT THE EXTERIOR COLUMN LINE FOR ATTACHED DECKS. THE BRACES SHALL BE ATTACHED TO THE POSTS WITH ONE - 5/8" Ø BOLT AT EACH END OF THE BRACE.

NOTES: 1) ALL NAILS AND BOLTS ARE TO BE HOT DIPPED GALVANIZED.

2) MINIMUM EDGE DISTANCE FOR BOLTS IS 2 1/2".

3) NAILS MUST PENETRATE THE SUPPORTING STRUCTURE BAND A MINIMUM OF 1 1/2".



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CHAMBERLAIN HOMES, LLC	DATE
STRUCTURAL ADDENDUM	DATE
MASTER MONTANA	DATE
SCOPE	DATE
ENG: CMC/JKM	DATE
DATE: 3/26/2024	DATE
PROJECT NO. 24-65-051	DATE
SHEET NO. SD3	DATE
19 of 19	DATE

16 SECTION
S9 SHED ROOF ATTACHMENT, ELEVATION B
3/4" = 1'-0"

17 SECTION
S6 UPLIFT HOLD DOWN AT TRUSS GIRDER
3/4" = 1'-0"

18 SECTION
S7 SHED ROOF ATTACHMENT, ELEVATION C
3/4" = 1'-0"

19 SECTION
S8 SHED ROOF ATTACHMENT, ELEVATION D
3/4" = 1'-0"

20 SECTION
S9 SHED ROOF ATTACHMENT, ELEVATION E
3/4" = 1'-0"

21 SECTION
S10 SHED ROOF ATTACHMENT, ELEVATION F
3/4" = 1'-0"

22 SECTION
S11 SHED ROOF ATTACHMENT, ELEVATION G
3/4" = 1'-0"