

- WALL BRACING IS REQUIRED . DESIGNER MUST SPECIFY METHOD OF BRACING PER SECTION R602 (NC 2018 RESIDENTIAL BUILDING CODE) AND PROVIDE DETAIL

COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS

MEAN ROOF HEIGHT	UP TO 30'	30'-1" - 35'	35'-1" - 40'	40'-1" - 45'
ZONE 1	16.5, -18.0	17.3, -18.9	18.0, -19.6	18.5, -20.2
ZONE 2	16.5, -21.0	17.3, -22.1	18.0, -22.9	18.5, -23.5
ZONE 3	16.5, -21.0	17.3, -22.1	18.0, -22.9	18.5, -23.5
ZONE 4	18.0, -19.5	18.9, -20.5	19.6, -21.3	20.2, -21.8
ZONE 5	18.0, -24.1	18.9, -25.3	19.6, -26.3	20.2, -27.0

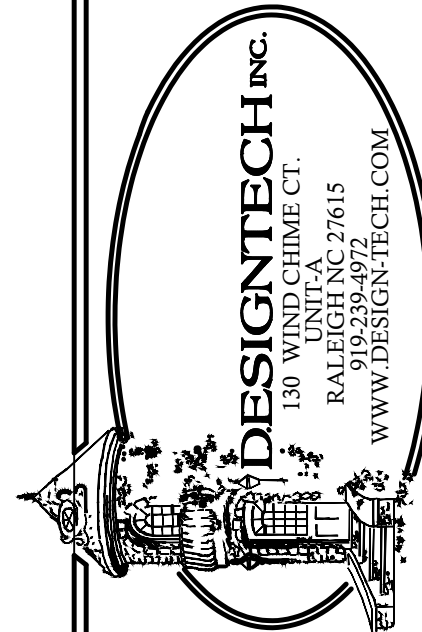
CEILING R-38 WALLS R-15 FLOORS R-19

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. MANY ERRORS OR OMISSIONS SHALL BE REPORTED TO DESIGN TECH, INC. FOR CORRECTIONS OR JUSTIFICATION. CONTRACTOR MUST COMPLY WITH ALL LOCAL BUILDING CODES WHERE CONSTRUCTION IS PROVIDED. CONTRACTOR MUST CONSTRUCTURAL DESIGN. ONCE CONSTRUCTION HAS BEGUN, CONTRACTOR WILL ASSUME ALL RESPONSIBILITY.

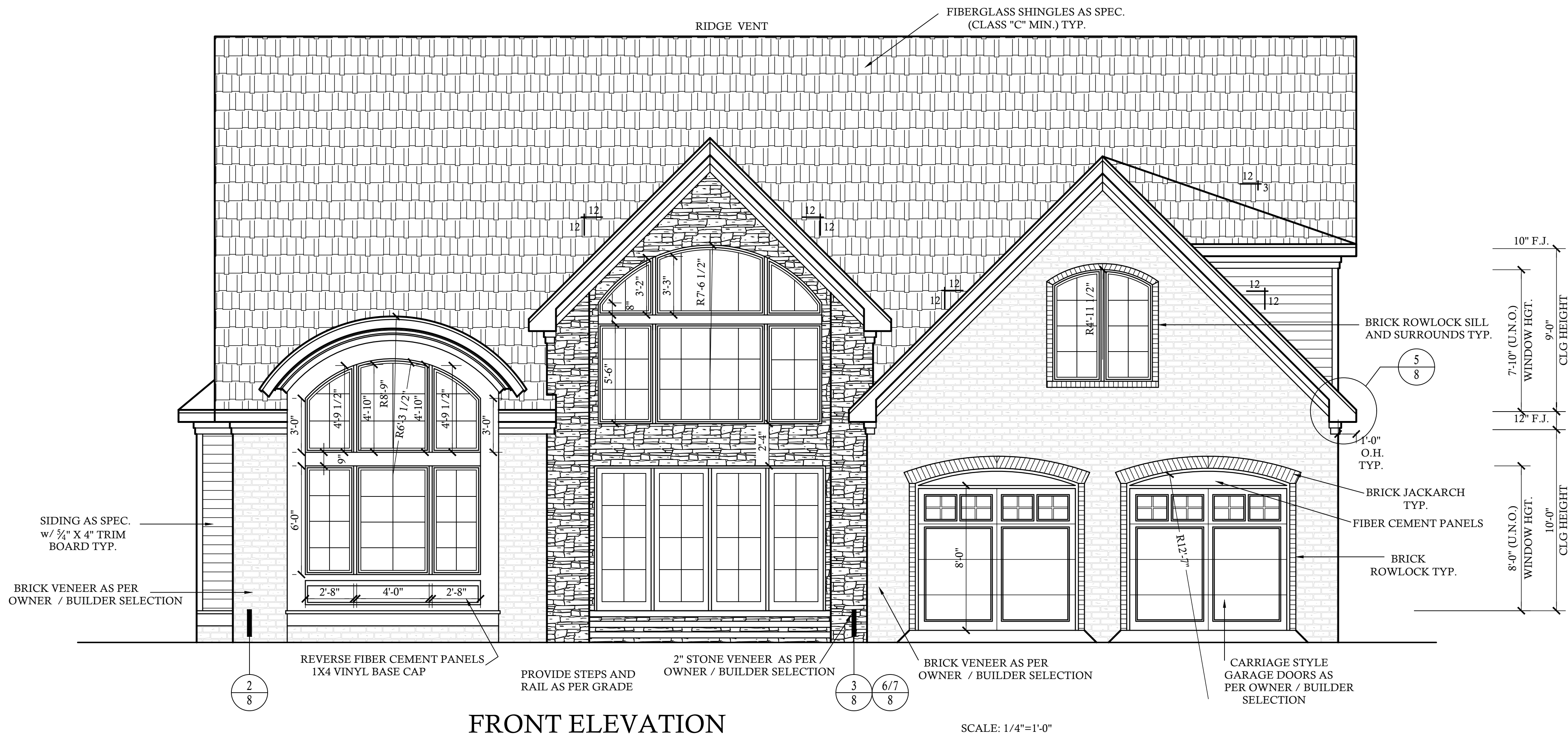
DATE:

[illegible][illegible]

15-3544-DT



15-3544-DT



CL.G : CEILING	ABV. : ABOVE
HGT. : HEIGHT	C.O. : CASPED OPENING
D.O. : DOUBLE OVEN	REFG. : REFRIGERATOR
W.D. : WOOD	D.W. : DISHWASHER
CONT. CONTINUOUS	T.B.D. : TO BE DETERMINED
CONC. : CONCRETE	W.I.C. : WALK IN CLOSET
COL. : COLUMM	W. : WASHER
ELLIP. : ELLIPSE	D. : DRYER
W. : WITH	SHWR. : SHOWER
TRANS. : TRANSOM	DN. : DOWN
CANT. : CANTILEVER	K.S. : KNEE SPACE
M.O. : MASONRY OPENING	TYP. : TYPICAL
5S = 5 SHELVES	
1R/1S = 1 ROD AND 1 SHELF	
2R/2S = 2 RODS AND 2 SHELVS	
SD= SMOKE DETECTOR	
CMD= CARBON MONOXIDE DETECTOR	

1) SEE CHAPTER 6 OF 2018 NCRF FOR WALL CONSTRUCTION.	5) ALL ANGLED WALLS ARE 45° UNLESS NOTED OTHERWISE.	9.) ALL CABINET DESIGNS/LAYOUTS TO BE VERIFIED WITH OWNER VIA SHOP DRAWINGS FROM CABINET MANUF.	12.) FINISHES OF SCREEN PORCH COLUMNS,RAILS, FLOORS , CEILINGS ;SCREEN DOOR SYSTEM,AND DOOR TO PORCH BY BLDR. & OWNER, PER CONTRACT SPECIFICATIONS
2) TEMPERED GLASS TO BE USED AT ALL SAFETY REQUIRED LOCATIONS ACCORDING TO 2018 NCRF SECTION R308.4.	6) VERIFY ALL WINDOW SIZES, RADIUS, AND DETAILS WITH CHOSEN MANUFACTURE.	10.) ALL FLOOR COVERINGS AND FINISHES BY OWNER/ BLDR. COORDINATE HEIGHTS DUE TO THICKNESS CHANGES.	13.) FINISHES FOR CLOSET SHELVING AND ROD BY BLDR. & OWNER, PER CONTRACT SPECIFICATIONS
3) DWELLING/GARAGE FIRE SEPARATION SHALL PER TABLE 302.6 OF 2018 NCRF.	7) LOCATE DORMER FACE TO ALLOW 6" MIN. BELOW WINDOW FRAME.	11.) ALL WINDOW GLAZING TO HAVE 0.32 U-FACTOR MIN. SEE TABLE E-4A, E-4B	14.) FINISHES OF ALL INTERIOR BASE BOARD , CLG. DETAIL / MOLDING, OPENING DETAILS, PASS-THRU'S ,WAINSCOTTING DETAILS BY BLDR. & OWNER, PER CONTRACT SPECIFICATIONS
4) ALL HABITABLE ROOMS SHALL MEET LIGHT/VENTILATION & EGRESS AS REQUIRED IN 2018 NCRF SECTIONS R303.1 AND R310	8) FLOOR PLAN NOTATIONS GOVERN OVER ELEVATION SCALE.		

PROVIDE BLOCKING FOR:

TB = TOWEL BAR	MR = MAGAZINE RACK
TP = TOILET PAPER	MC = MEDICINE CABINET
TR = TOWEL RING	

NOTE:
SELECTION BY OWNER PER
BUILDER CONTRACT SPECIFICATIONS

-GRADE LINES ARE ASSUMED.
VERIFY WITH FINAL GRADING PLAN.

HEATED (SQ. FT.)		UNHEATED (SQ. FT.)	
1ST FLOOR:	2547	GARAGE:	616
2ND FLOOR:	797	COV. PORCH:	396
REC ROOM:	200	ENTRY PORCH:	104
ATTIC:	N/A	DECK:	139
<hr/>		<hr/>	
TOTAL: (HEATED)	3544	BRICK FRONT:	30+/-
		TOTAL: (UNHEATED)	1289
OVERALL DIMENSION		UNFINISHED (SQ. FT.)	
WIDTH:	64'-0"	STORAGE:	258
DEPTH:	75'-0"		

FIBERGLASS SHINGLES AS SPEC.
(CLASS "C" MIN.) TYP.

RIDGE VENT

NOTE:
SEE ROOF PLAN FOR KNEEWALL
HEIGHTS AND LOCATIONS.

NOTE:
GRADE LINES ARE ASSUMED. VERIFY
WITH FINAL GRADING PLAN.

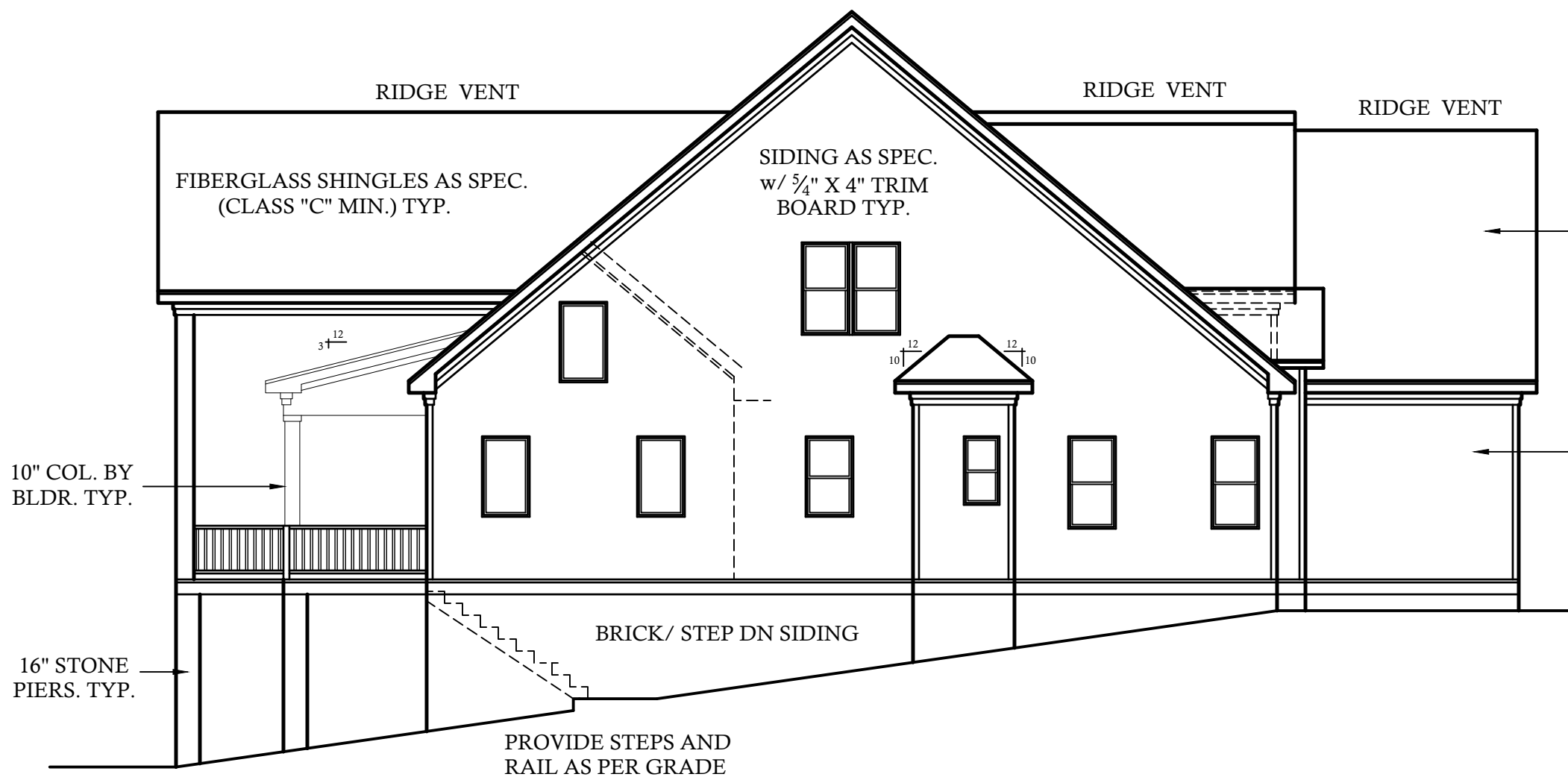


SIDING AS SPEC.
w/ 3/4" X 4" TRIM
BOARD TYP.

16" STONE
PIERS. TYP.

REAR ELEVATION

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

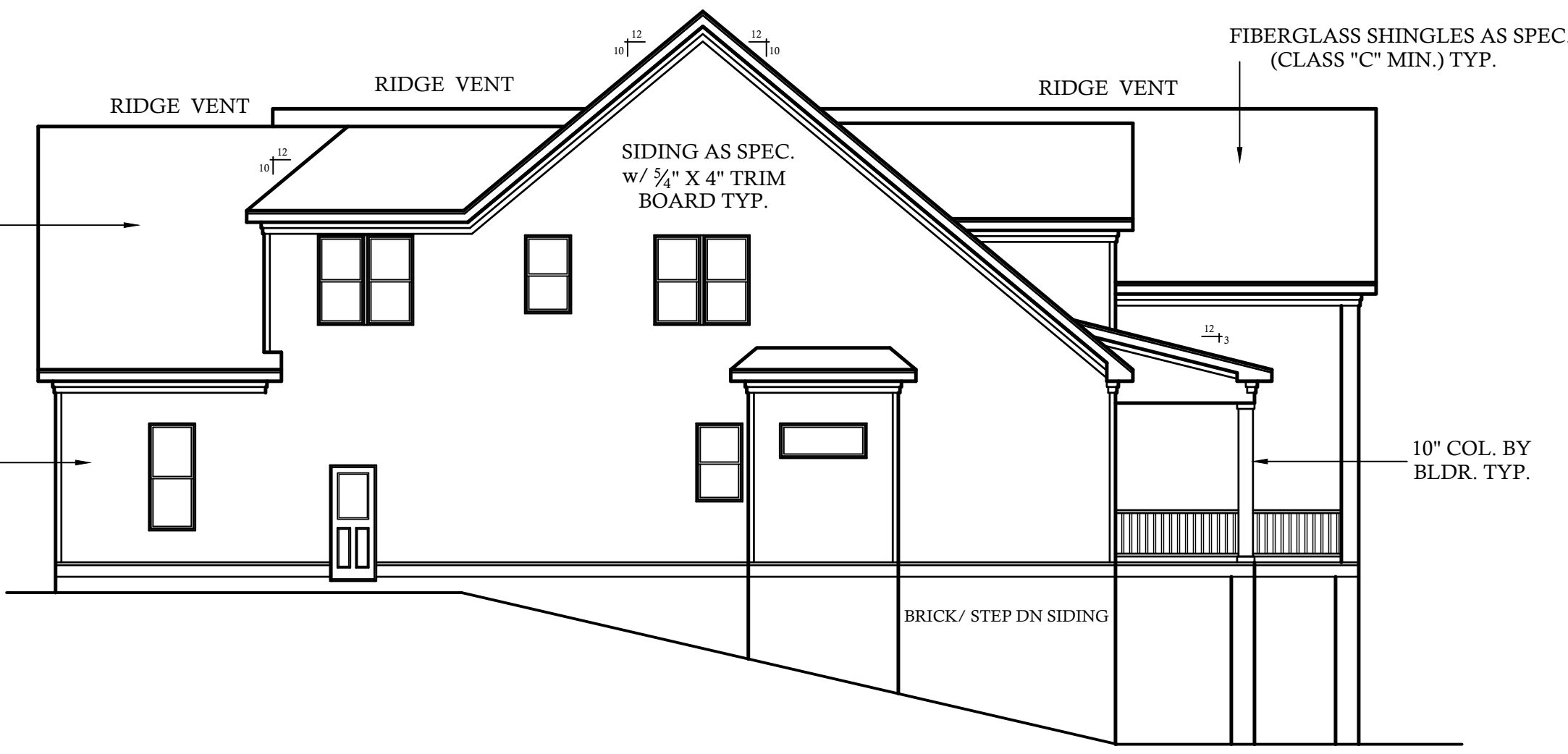


LEFT SIDE ELEVATION

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

FIBERGLASS SHINGLES AS SPEC.
(CLASS "C" MIN.) TYP.

SIDING AS SPEC.
w/ 3/4" X 4" TRIM
BOARD TYP.



RIGHT SIDE ELEVATION

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

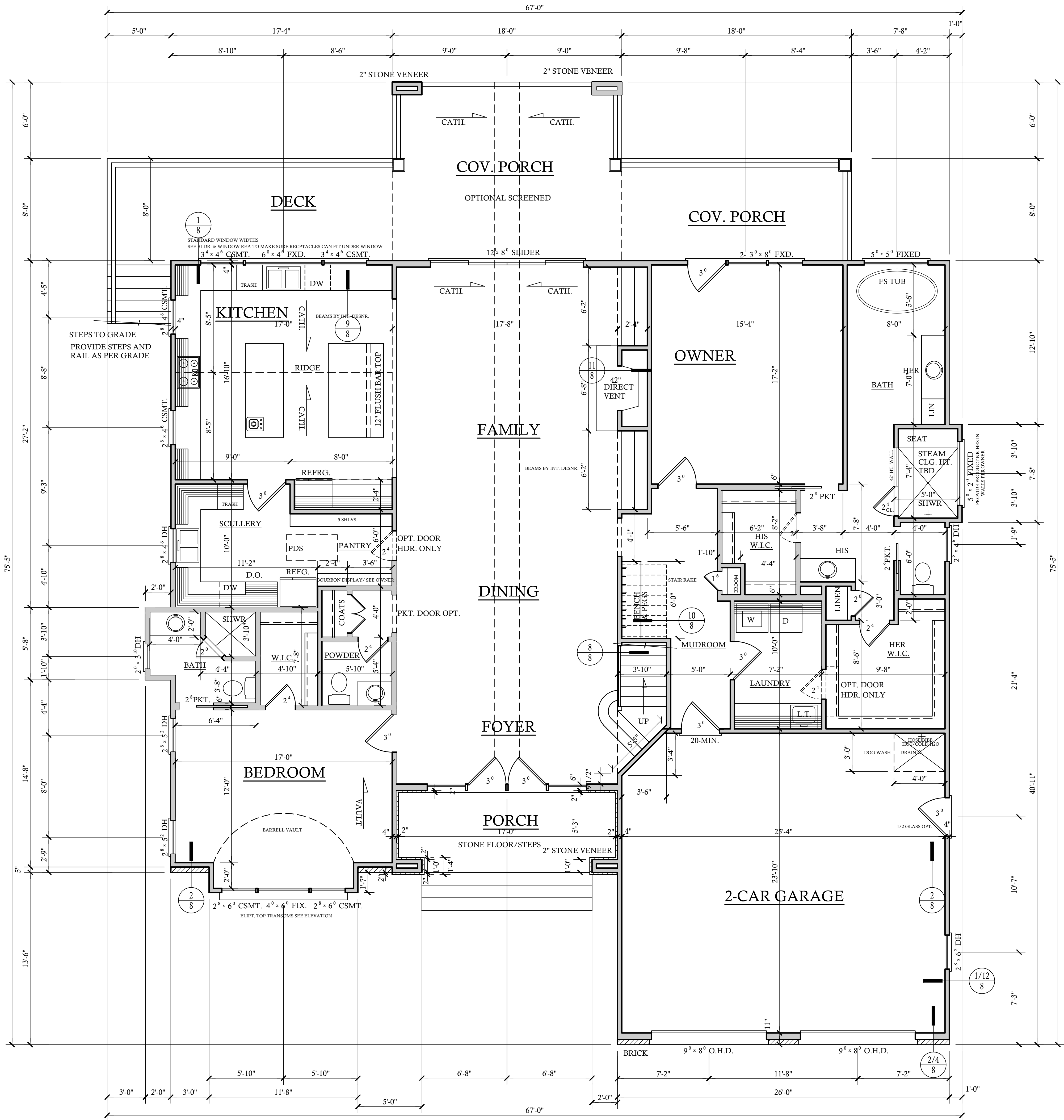


JEFFRIES RESIDENCE

15-3544-DT

A1
BD

SHEET NO.
2
OF
8



FIRST FLOOR PLAN
10'-0" CLG. HGT. U.N.O.
SET WINDOWS @ 8'-0" U.N.O.
SCALE: 1/4"=1'-0"

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO DESIGN TECH, INC. FOR CORRECTIONS OR REVISIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING CODES WHERE THE HOME IS TO BE BUILT. IF NO ENGINEERING OR ARCHITECTURAL CONSULTATION HAS BEEN OBTAINED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING CODES WHERE THE HOME IS TO BE BUILT. IF NO ENGINEERING OR ARCHITECTURAL CONSULTATION HAS BEEN OBTAINED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING CODES WHERE THE HOME IS TO BE BUILT.

REVISIONS:
DATE: NAME:

DRAWN BY:
RKR
CHECKED BY:
RKR
DATE:
3-25-25
PLAN NO.
15-3544-DT

DESIGNTECH INC.
130 WIND CHIME CT.
RALEIGH, NC 27615
919.486.9999
WWW.DESIGNTECH.COM

JEFFRIES RESIDENCE
15-3544-DT

A
B.D.

SHEET NO.
3
OF
8



CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. ANY ERROR OR OMISSIONS SHALL BE REPORTED TO DESIGN TECH. INC. FOR CORRECTIONS OR JUSTIFICATION. CONTRACTOR MUST COMPLY WITH ALL LOCAL BUILDING CODES WHERE HOME IS TO BE BUILT. IF NO ENGINEERING DRAWINGS ARE PROVIDED, CONTRACTOR MUST CONSULT WITH LOCAL ENGINEER FOR STRUCTURAL DESIGN. ONCE CONSTRUCTION HAS BEGUN, CONTRACTOR WILL ASSUME ALL RESPONSIBILITY. PLAN HAS BEEN DESIGNED TO COMPLY WITH 2018 N.C.C.

REVISIONS:	
DATE:	NAME:

	DRAWN BY: RKR
	CHECKED BY: RKR
	DATE: 3-25-25
	PLAN NO. 15-3544-DT

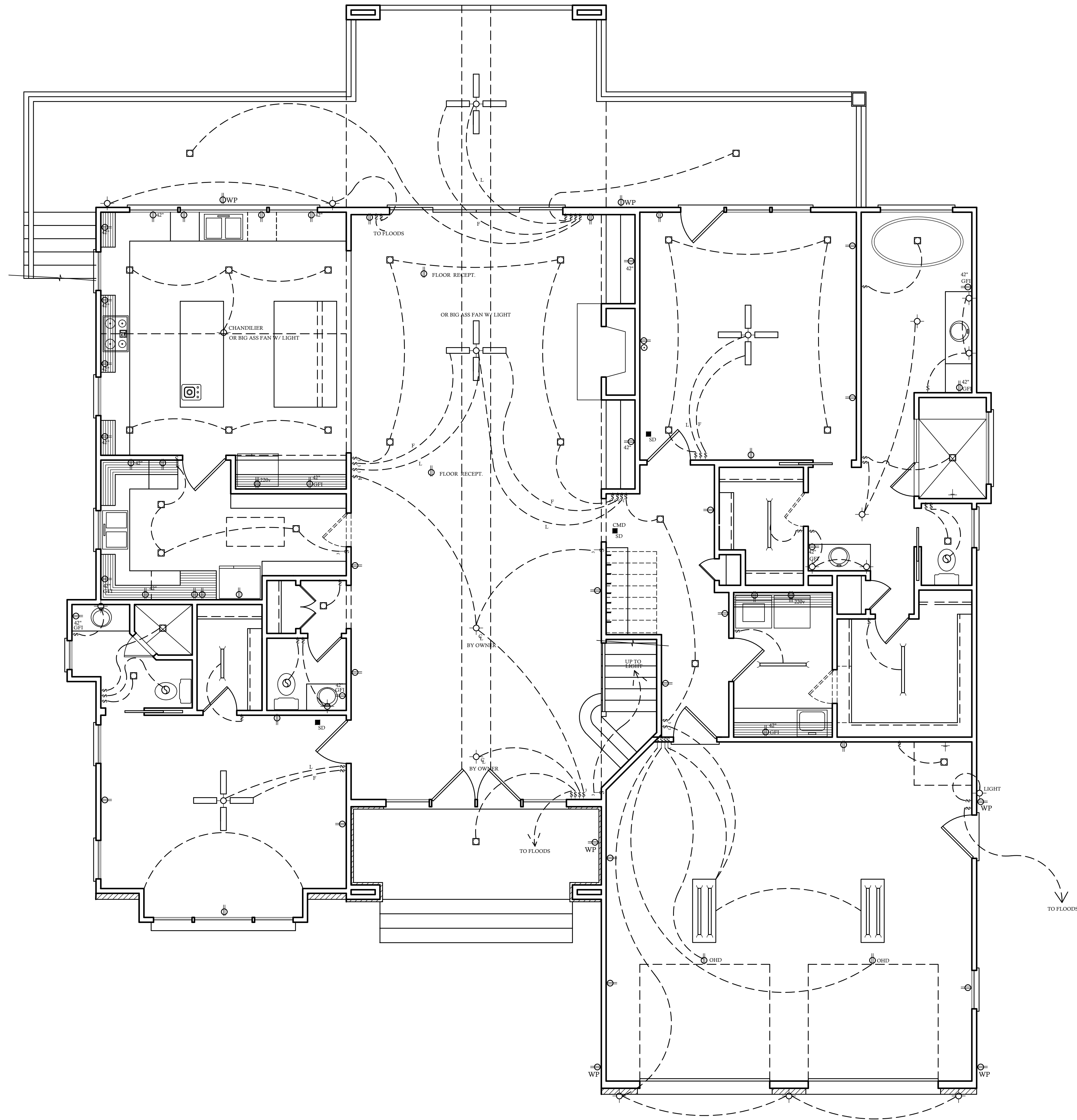


JEFFRIES RESIDENCE
15-3544-DT

A
B
D

SHEET NO
4
OF 8

COPYRIGHT © 2024 BY DESIGN TECH, INC. ALL RIGHTS RESERVED. NO PART OF THESE PLANS MAY BE USED, REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM BY ANY MEANS, ELECTRONIC, MECHANICAL, PHOTOCOPYING, RECORDING, OR OTHERWISE WITHOUT THE PERMISSION OF DESIGNTeCH, INC.

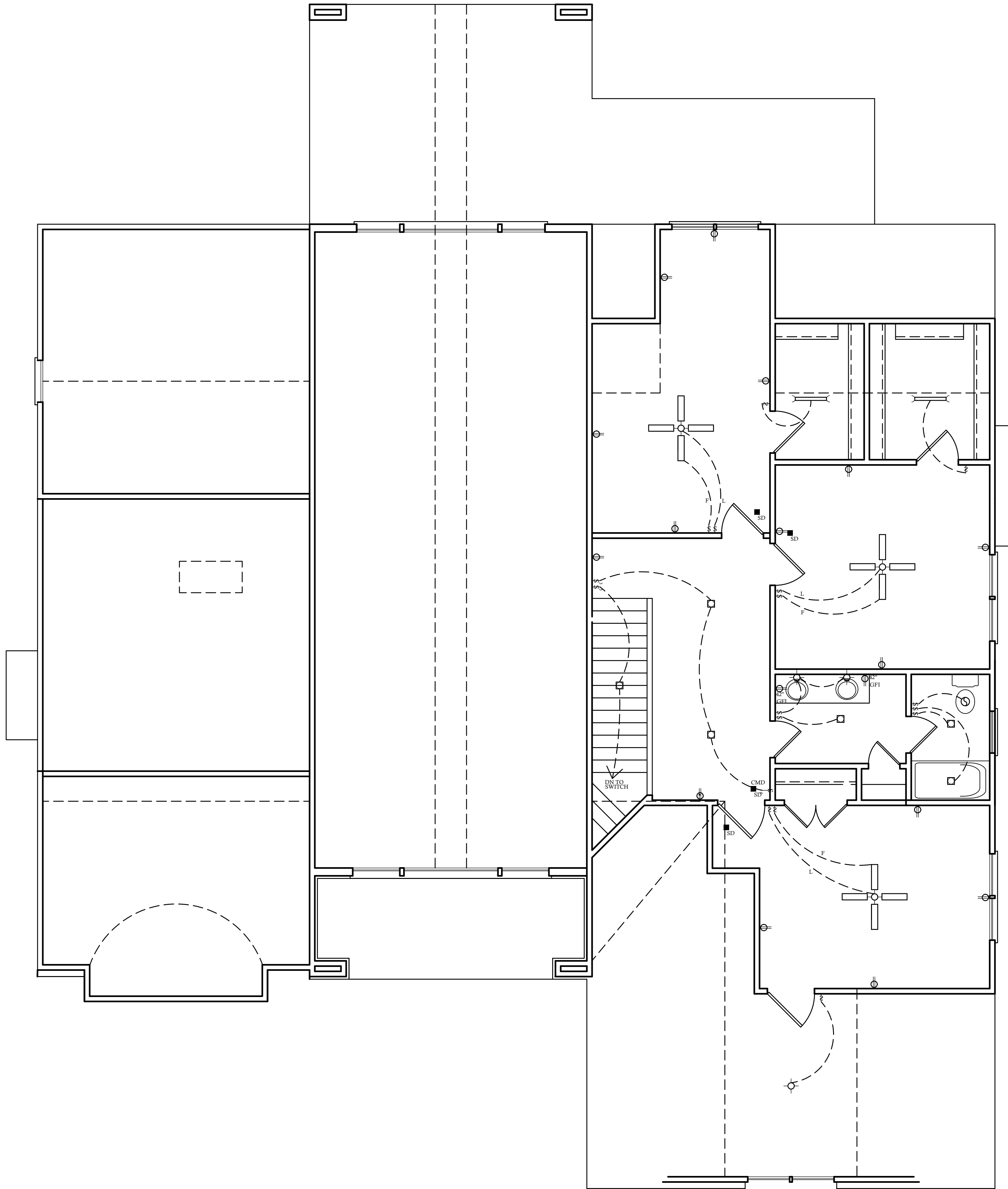


ELECTRICAL LEGEND	
	- LIGHT FIXTURE
	- FAN/LIGHT
	- WATERPROOF OUTLET
	- RECESSED LIGHTING
	- CAN LIGHT W/ FAN
	- SINGLE SWITCH
	- 3-WAY SWITCH
	- 4-WAY SWITCH
	- DIMMER SWITCH
	- CARBON MONOXIDE DETECTOR
	- SMOKE DETECTOR
	- FLOOD LIGHTS
	- EYEBALL SPOTS
	- DUPLEX RECEPTACLE (110V)
	- 220 VOLT RECEPTACLE
	- SWITCHED RECEPTACLE (TOP WIRE ONLY)
	- GROUND FAULT CIRCUIT INTERRUPTOR
	- CLG FAN/LIGHTS
	- TRACK LIGHTS
	- FLUORESCENT/LED LIGHTING
	- CABLE OUTLET
	- TELEPHONE OUTLET
	- COMPUTER DATA OUTLET
	- INTERCOM
NOTE: ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE NEC.	

ELECTRICAL NOTES:

1. THE ELECTRICAL DIAGRAMS SHOWN ON THESE PLANS ARE TO BE USED AS A GUIDE. HOME OWNER AND BUILDER ARE REQUIRED TO REVIEW AND CONFIRM WITH LICENSED ELECTRICAL CONTRACTOR THESE CONTENTS PRIOR TO ROUGH-IN FOR CODE COMPLIANCE AND SPECIAL REQUIREMENTS BY THE HOME OWNER. ONCE CONSTRUCTION BEGINS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR, NOT DESIGN TECH, INCORPORATED.
2. SEE ELECTRICIAN, BUILDER, AND OWNER FOR POSSIBLE GENERATOR LOCATION, SWITCHES, RECEPTACLES, AND ATTACHMENTS. COORDINATE SIZE AND MODEL OF GENERATOR TO HANDLE LOADS ADEQUATELY.
3. UNDER-CABINET COUNTER LIGHTING FOR KITCHEN IS OPTIONAL. PLEASE CONFIRM WITH CABINET MAKER AND ELECTRICIAN.
4. ELECTRICAL FOR EXTERIOR LANDSCAPE LIGHTING AND POOL EQUIPMENT BY BUILDER AS PER CODE.
5. IT IS AN OPTION FOR EVERY TOP RECEPTACLE AT FRONT WINDOWS TO BE ON ONE SWITCH LOCATED BY OWNER/ BUILDER FOR WINDOW DECORATION LIGHTING.
6. CLOSET LIGHTING TO BE CONTROLLED BY SWITCH AS SHOWN OR IN-JAMB SWITCH WHICH WOULD ILLUMINATE LIGHT WHEN DOOR IS OPENED. SOME ELECTRICAL PLANS MAY OR MAY NOT SHOW CLOSET LIGHTING. SEE OWNER AND CONFIRM WITH BUILDER.
7. EXHAUST FANS ARE REQUIRED IN BATHROOMS WITHOUT NATURAL VENTILATION. OUR PLANS WILL ALWAYS SHOW EXHAUST FAN.
8. NO HEAT LAMPS OR HEATERS MAY BE SHOWN IN THIS DRAWING. PLEASE CONFIRM WITH BUILDER FOR PRESENCE AND LOCATION.
9. ALL SLEEPING AREAS/BEDROOMS SHOULD CONTAIN SMOKE DETECTORS. SOME CORRIDORS ALSO REQUIRE SMOKE DETECTORS. PLEASE SEE LOCAL, STATE, AND FEDERAL BUILDING CODES TO CONFIRM THESE REQUIREMENTS.
10. PANEL BOX LOCATION BY ELECTRICIAN/BUILDER AS PER CODE.

FIRST FLOOR ELECTRICAL PLAN



ELECTRICAL LEGEND	
	· LIGHT FIXTURE
	· FAN/LIGHT
	· WATERPROOF OUTLET
	· RECESSED LIGHTING
	· CAN LIGHT W/ FAN
	· SINGLE SWITCH
	· 3-WAY SWITCH
	· 4-WAY SWITCH
	· DIMMER SWITCH
	· CARBON MONOXIDE DETECTOR
	· SMOKE DETECTOR
	· FLOOD LIGHTS
	· EYEBALL SPOTS
	· DUPLEX RECEPTACLE (110V)
	· 220 VOLT RECEPTACLE
	· SWITCHED RECEPTACLE (TOP WIRE ONLY)
	· GROUND FAULT CIRCUIT INTERRUPTOR
	· CLG FAN/LIGHTS
	· TRACK LIGHTS
	· FLUORESCENT/LED LIGHTING
	· CABLE OUTLET
	· TELEPHONE OUTLET
	· COMPUTER DATA OUTLET
	· INTERCOM
NOTE: ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE NEC.	

ELECTRICAL NOTES:

1. THE ELECTRICAL DIAGRAMS SHOWN ON THESE PLANS ARE TO BE USED AS A GUIDE. HOME OWNER AND BUILDER ARE REQUIRED TO REVIEW AND CONFIRM WITH LICENSED ELECTRICAL CONTRACTOR THESE CONTENTS PRIOR TO ROUGH-IN FOR CODE COMPLIANCE AND SPECIAL REQUIREMENTS BY THE HOME OWNER. ONCE CONSTRUCTION BEGINS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR, NOT DESIGN TECH, INCORPORATED.
2. SEE ELECTRICIAN, BUILDER, AND OWNER FOR POSSIBLE GENERATOR LOCATION, SWITCHES, RECEPTACLES, AND ATTACHMENTS. COORDINATE SIZE AND MODEL OF GENERATOR TO HANDLE LOADS ADEQUATELY.
3. UNDER-CABINET COUNTER LIGHTING FOR KITCHEN IS OPTIONAL. PLEASE CONFIRM WITH CABINET MAKER AND ELECTRICIAN.
4. ELECTRICAL FOR EXTERIOR LANDSCAPE LIGHTING AND POOL EQUIPMENT BY BUILDER AS PER CODE.
5. IT IS AN OPTION FOR EVERY TOP RECEPTACLE AT FRONT WINDOWS TO BE ON ONE SWITCH LOCATED BY OWNER/ BUILDER FOR WINDOW DECORATION LIGHTING.
6. CLOSET LIGHTING TO BE CONTROLLED BY SWITCH AS SHOWN OR IN-JAMB SWITCH WHICH WOULD ILLUMINATE LIGHT WHEN DOOR IS OPENED. SOME ELECTRICAL PLANS MAY OR MAY NOT SHOW CLOSET LIGHTING. SEE OWNER AND CONFIRM WITH BUILDER.
7. EXHAUST FANS ARE REQUIRED IN BATHROOMS WITHOUT NATURAL VENTILATION. OUR PLANS WILL ALWAYS SHOW EXHAUST FAN.
8. NO HEAT LAMPS OR HEATERS MAY BE SHOWN IN THIS DRAWING. PLEASE CONFIRM WITH BUILDER FOR PRESENCE AND LOCATION.
9. ALL SLEEPING AREAS/BEDROOMS SHOULD CONTAIN SMOKE DETECTORS. SOME CORRIDORS ALSO REQUIRE SMOKE DETECTORS. PLEASE SEE LOCAL, STATE, AND FEDERAL BUILDING CODES TO CONFIRM THESE REQUIREMENTS.
10. PANEL BOX LOCATION BY ELECTRICIAN/BUILDER AS PER CODE.

SECOND FLOOR ELECTRICAL PLAN

MATERIAL REFERENCE

1. CONT. POURED CONC. FOOTING

2. 4 X 8 X 16 CMU

3. 6 X 8 X 16 CMU

4. 8 X 8 X 16 CMU

5. 12 X 8 X 16 CMU

6. BRICK

7. SOLID MASONRY CAP

8. 4" CONCRETE SLAB

9. 6 MIL VAPOR BARRIER

10. 4" STONE BASE

11. 6" X 6" 10-10 W.W.M.

12. 2 X 4 TREATED SILL PLATE

13. 2 X 6 TREATED SILL PLATE

14. 2 X 6 JOIST

15. 2 X 6 BAND

16. 2 X 8 JOIST

17. 2 X 8 BAND

18. 2 X 10 JOIST

19. 2 X 10 BAND

20. A.P.A. RATED SUB-FLOOR

21. A.P.A. RATED UNDERLAYMENT

22. 2 X 4 SOLE PLATE

23. 2 X 4 STUD WALL

24. DBL 2 X 4 TOP PLATE

25. 2 X 6 SOLE PLATE

26. 2 X 6 STUD WALL

27. DBL 2 X 6 TOP PLATE

28. EXTERIOR SHEATHING

29. SHEATHING PAPER

30. 1/2" DRY WALL

31. R-15 BATT INSULATION MIN.

32. BRICK VENEER

33. WALL TIE

34. WEEP HOLES @ 16" O.C. HORIZ.

35. FLASHING AS REQ. PER CODE

36. SELF FURRING GALV. METAL LATH

37. METAL BEAD

38. STUCCO PLASTER

39. SIDING AS SPECIFIED

40. TPL 2 X BLOCKING

41. WOOD FILLER
42. 1 X FRIEZE BOARD

43. NAILER

44. LOOKOUT

45. 3/8" EXT. PLYWOOD SOFFIT

46. SOFFIT VENT

47. SUB FASCIA

48. 1 X FASCIA

49. METAL DRIP STRIP

50. SHINGLES AS SPECIFIED

51. 15 LB. FELT PAPER

52. A.P.A. RATED SHEATHING

53. 2 X 8 RAFTER

54. 2 X 6 RAFTER

55. R-38 BATT INSULATION MIN.

56. CMU PIER

57. TREATED 2 X 6 SHIM PLATE

58. GIRDER SIZE PER PLAN

59. 2 X 2 LEDGER BOARD

60. 1/2" EXPANSION JOINT

61. 1 1/2" RIGID INSULATION (R 5.0 MIN)

62. WATERPROOFING

63. 4" PERFORATED DRAIN TILE (SLOPE TO DRAIN)

64. CRUSHED STONE W/ INFILTRATION BARRIER ABOVE

65. CONC. WASH

66. 2 X 4 RAFTER TIE BACKS PER ENG. SPECS. AT MIN. EVERY THIRD RAFTER

67. SEE STRUCTURAL SHEETS FOR JOIST DIRECTION & SIZES

68. R-19 BATT INSULATION (MIN.)

69. POURED CONC. FND. WALL

70. OPT. TRIM SEE BLDG.

71. STONE VENEER

72. TRUSSES PER MANUFACTURER

73. STUCCO DRIP CAP

74. STUCCO ON CMU OR CONCRETE WALL

75. BAND W/ DRIP CAP

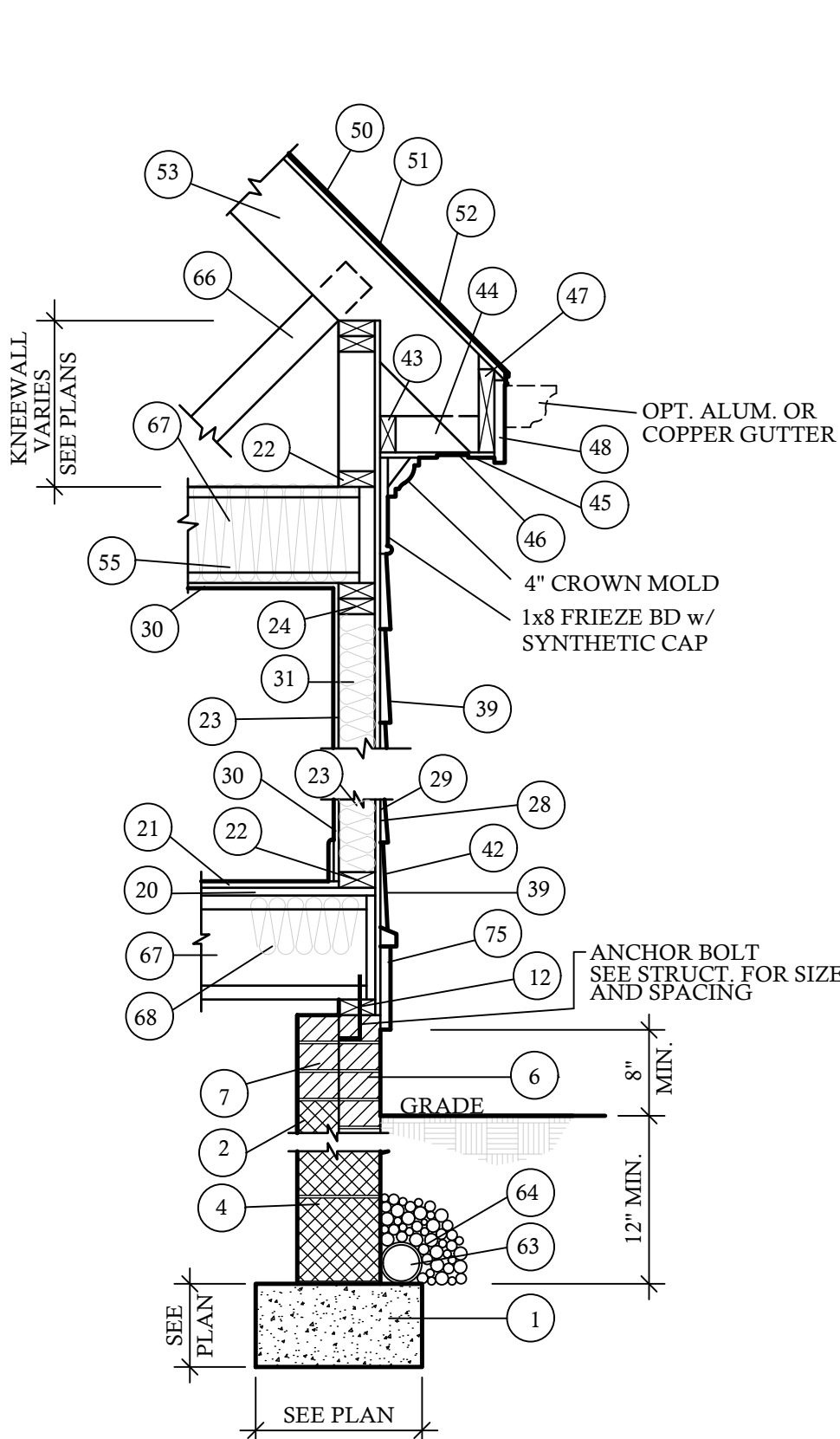
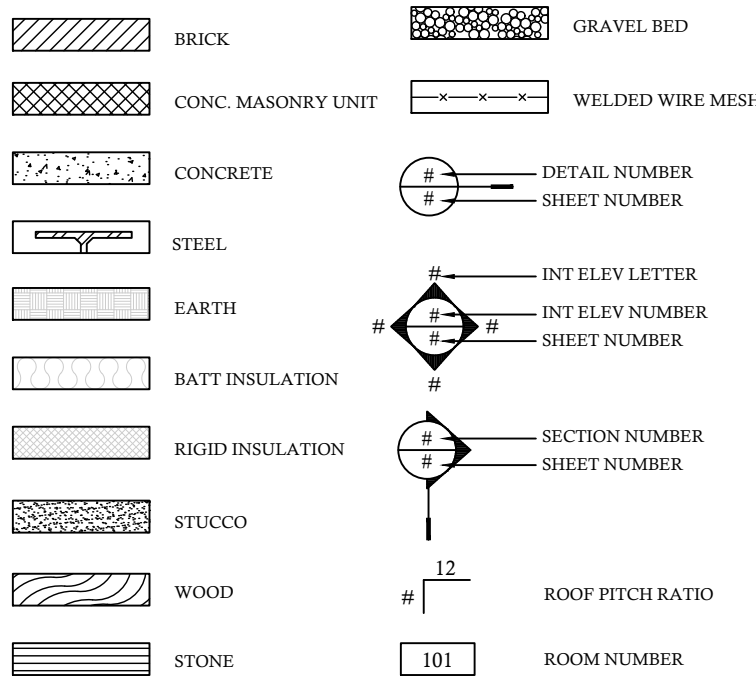
76. SOFFIT BED MOLD TRIM

77. 2 X 8 TREATED SILL PLATE

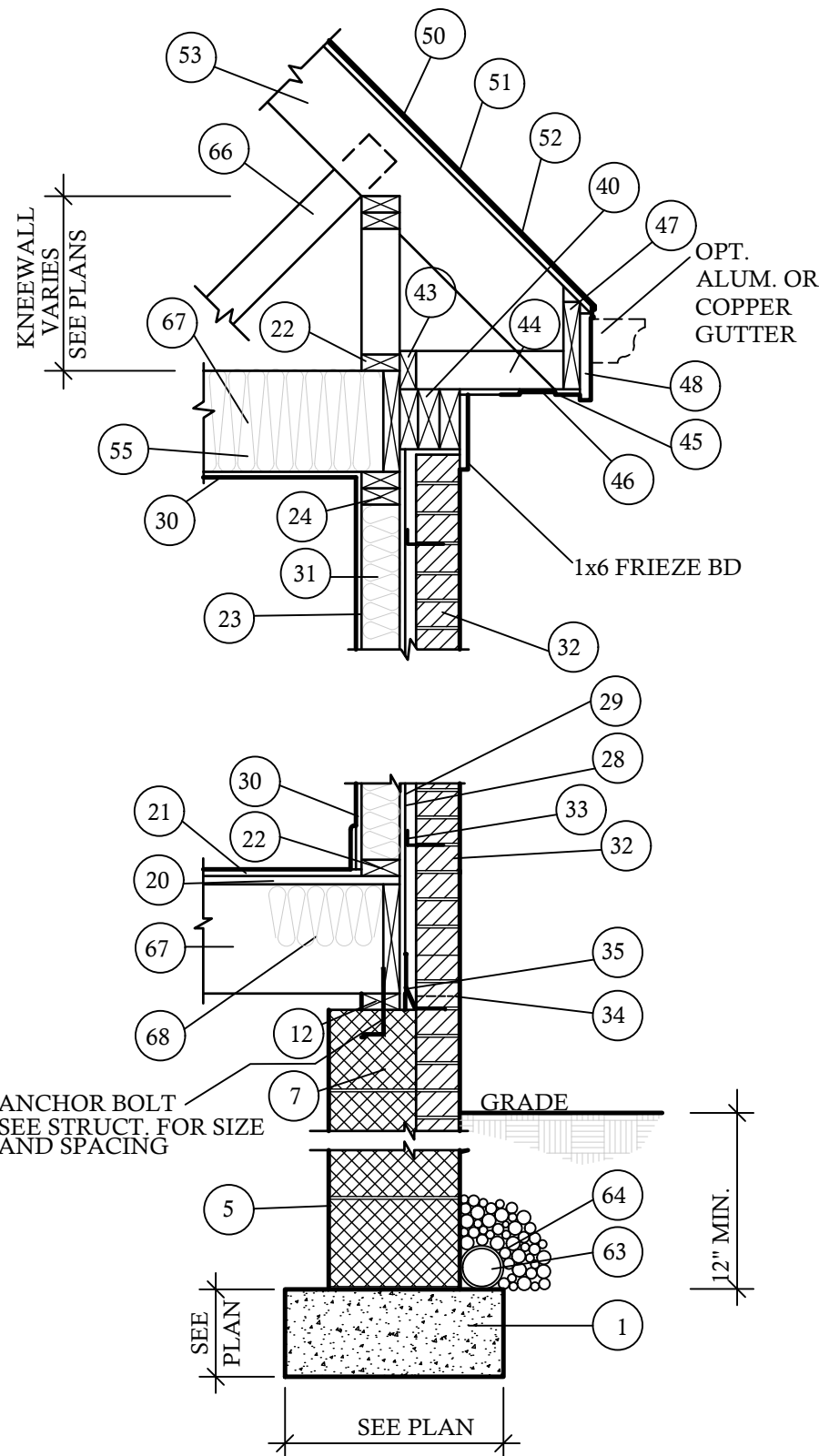
78. 2 X 12 JOIST

79. 2 X 12 BAND

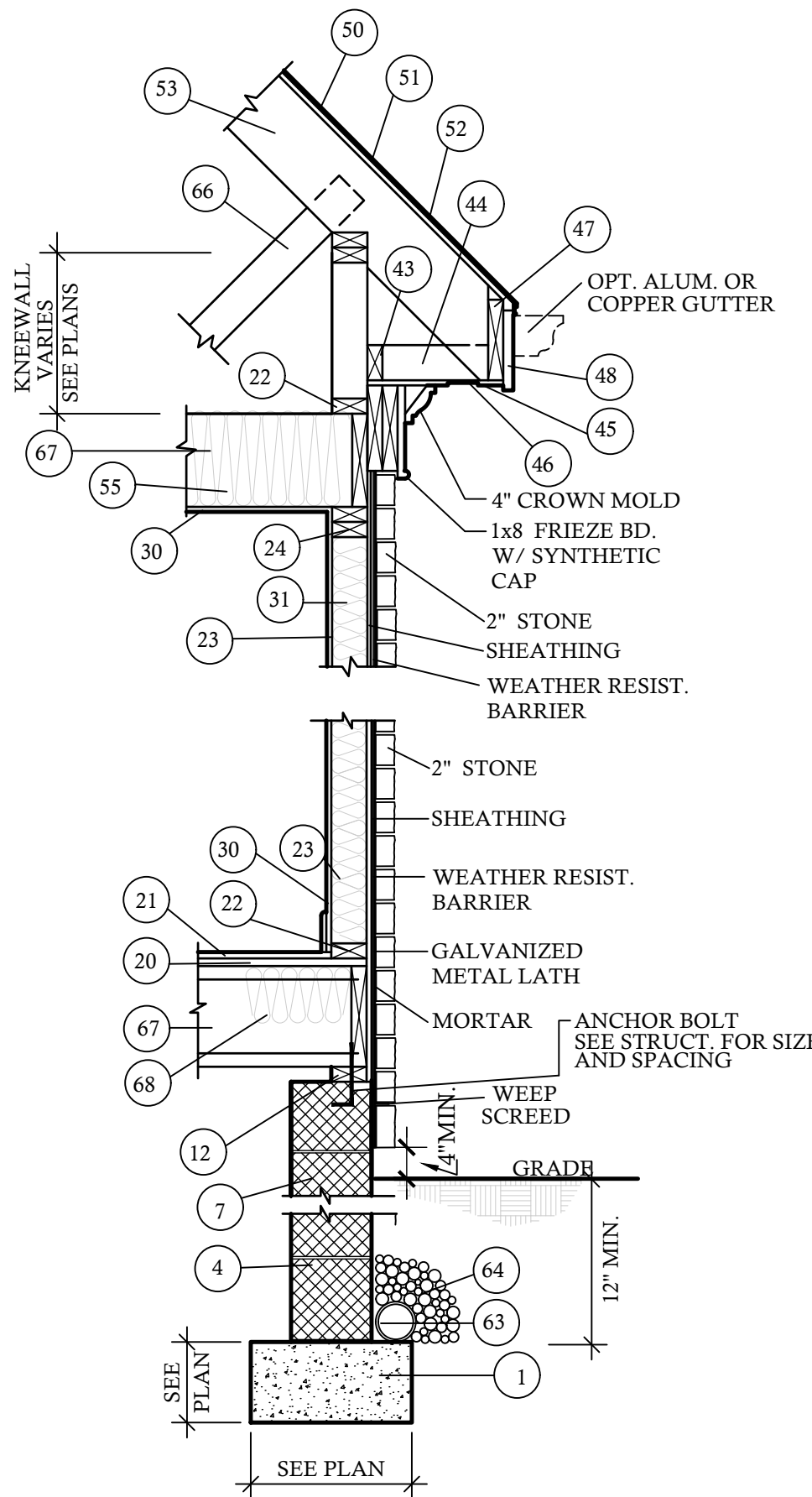
80. 66 MIL. OF THRU WALL FLASHING



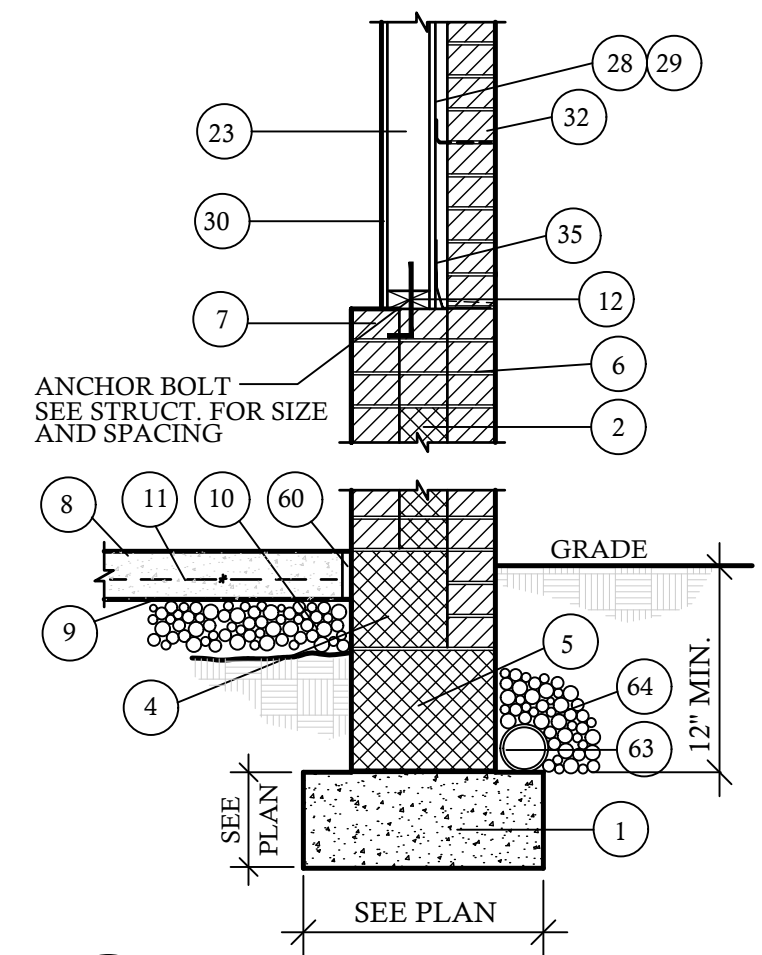
1 ONE STORY WALL W/ SIDING @ 3/4"=1'-0"
PROPERTY OF DESIGN TECH INC.
DESIGNED FOR 115 MPH WINDS



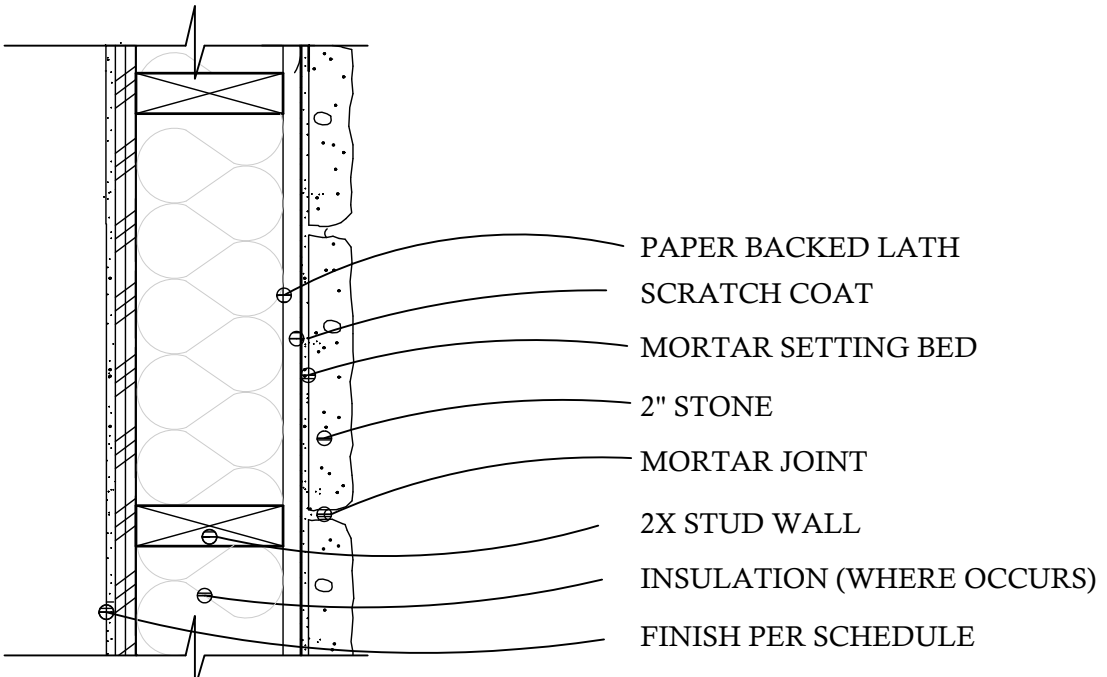
2 ONE STORY WALL W/ BRICK @ 3/4"=1'-0"
PROPERTY OF DESIGN TECH INC.
DESIGNED FOR 115 MPH WINDS



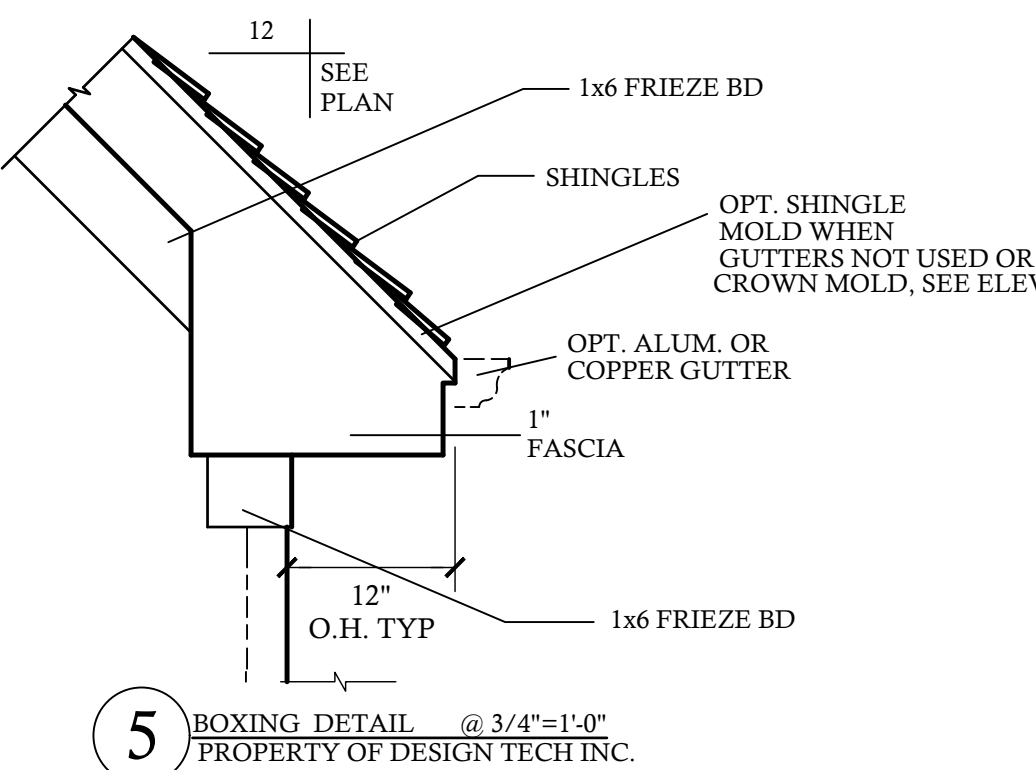
3 ONE STORY WALL W/ 2" STONE @ 3/4"=1'-0"
PROPERTY OF DESIGN TECH INC.
PLANS DESIGNED FOR 115 MPH WIND ZONE



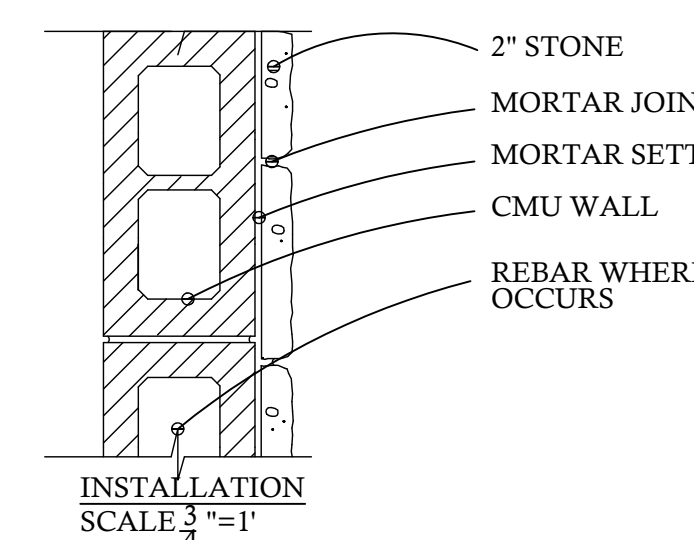
4 GARAGE WALL W/ BRICK @ 3/4"=1'-0"
DESIGNED FOR 115 MPH WINDS



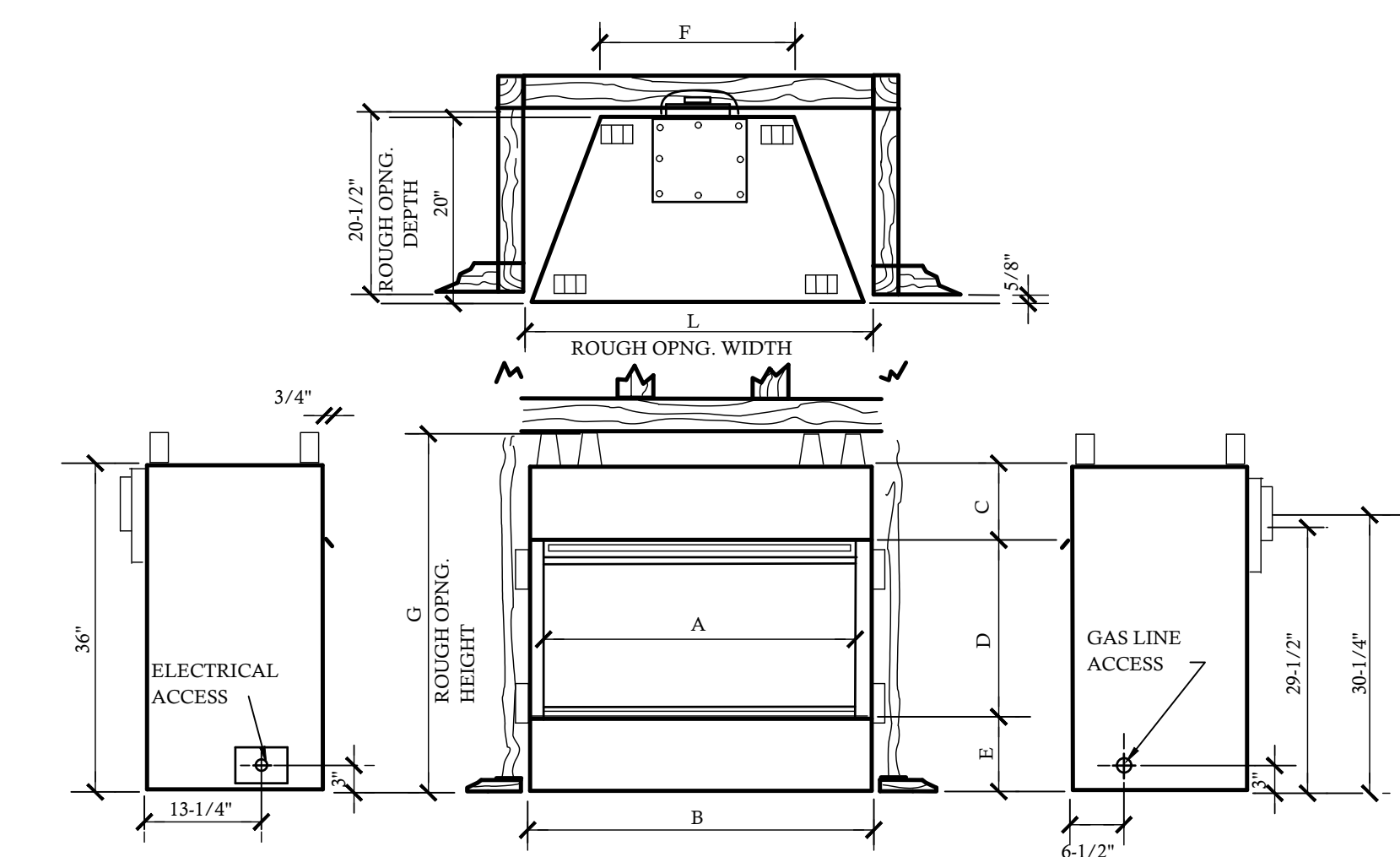
6 INSTALLATION OVER OPEN STUD FRAMING
N.T.S.



5 BOXING DETAIL @ 3/4"=1'-0"
PROPERTY OF DESIGN TECH INC.



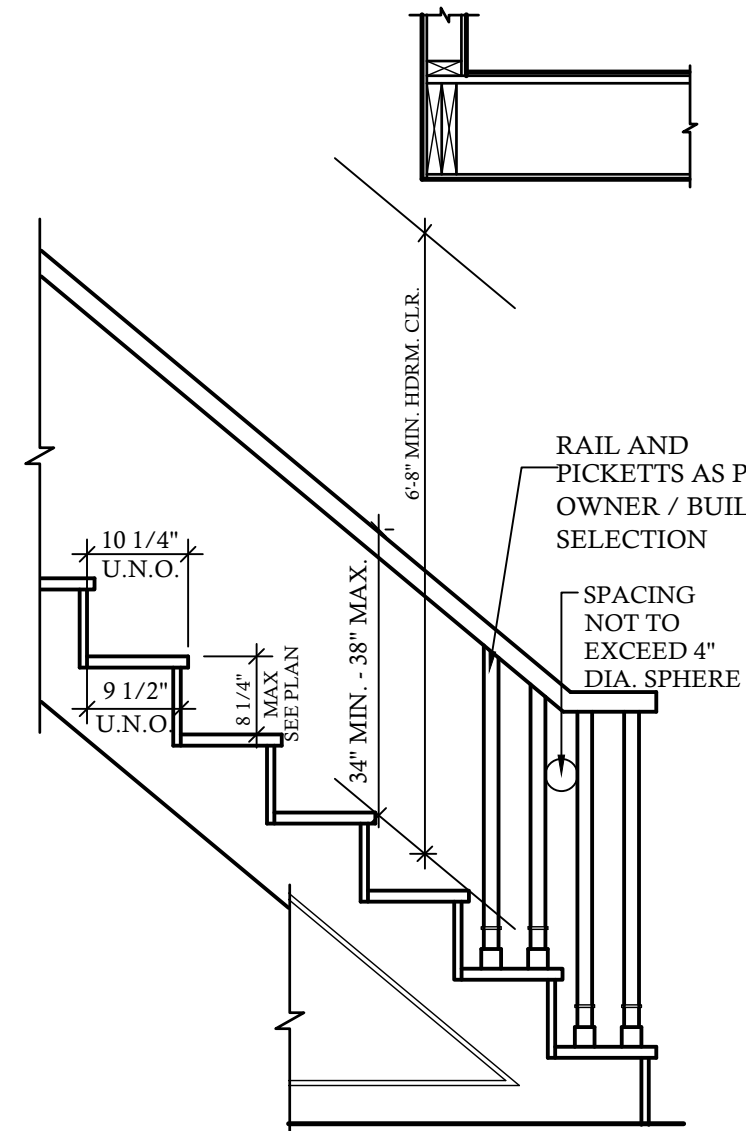
7 INSTALLATION ON CMU WALL
N.T.S.



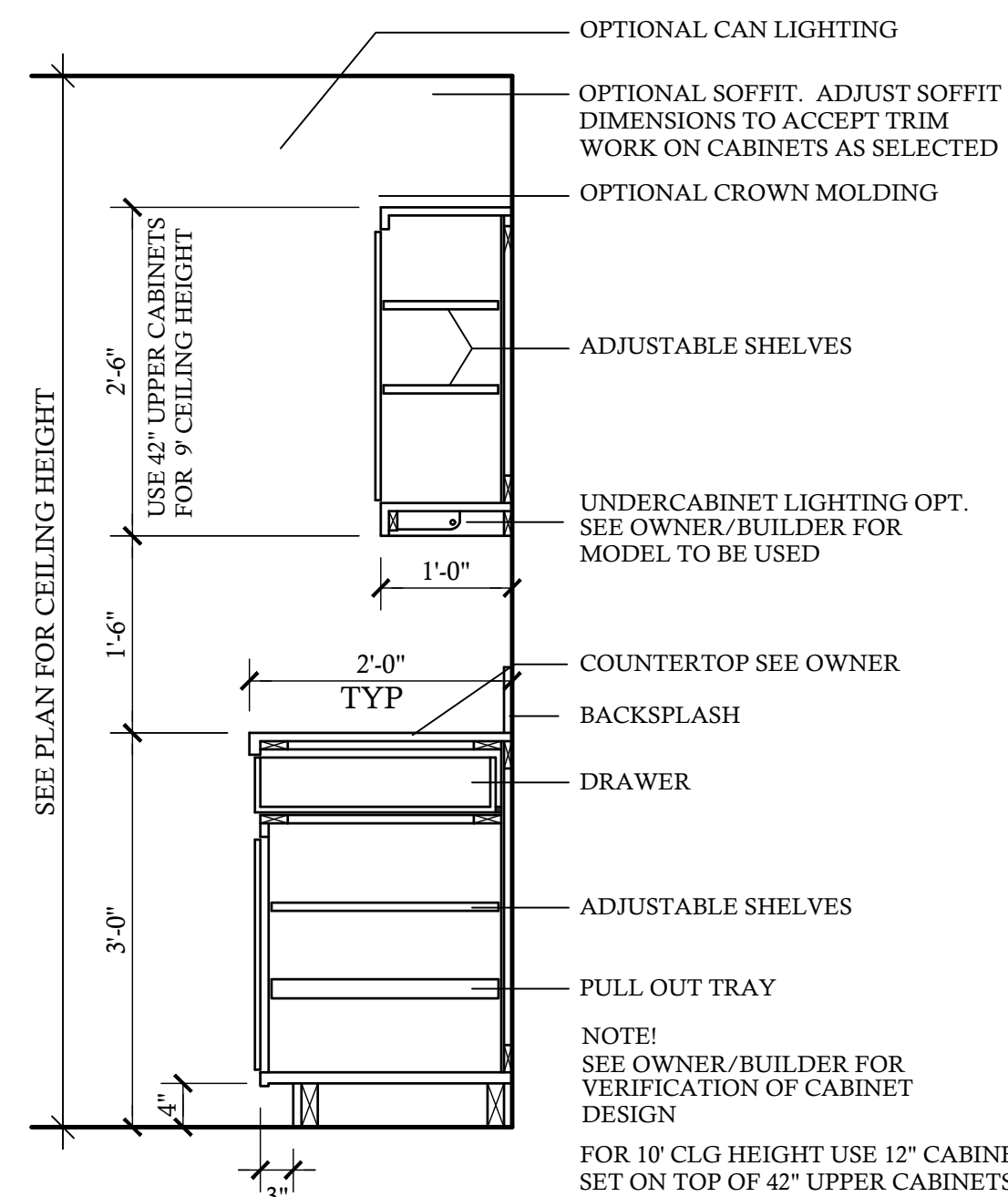
11 DIRECT VENT FIREPLACE N.T.S.
PROPERTY OF DESIGN TECH INC.

FIREPLACE DIMENSIONS												
	A	B	C	D	E	F	G	H	J	K	L	M
DVBR36	36"	40"	6-3/8"	23-1/4"	6-3/8"	22"	40-1/2"	45-3/4"	45-3/4"	64-3/4"	41"	32-3/8"
DVBR42	42"	46"	6-3/8"	23-1/4"	5-3/8"	28"	40-1/2"	49"	49"	69-1/2"	47"	35-1/4"

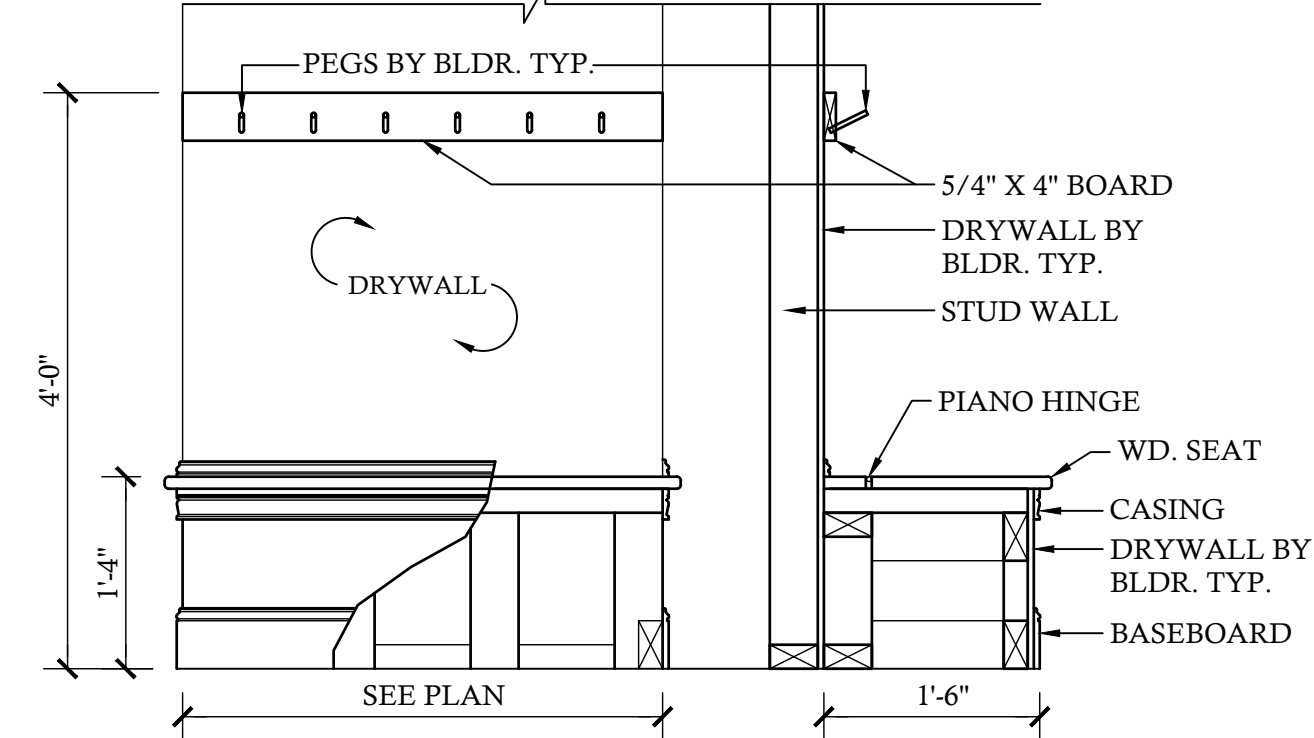
NOTE - VERIFY W/ MANUF. UNIT MODEL NO. & DIMENSIONS REQUIRED FOR FRAMING AROUND FIREPLACE UNIT PRIOR TO CONSTRUCTION



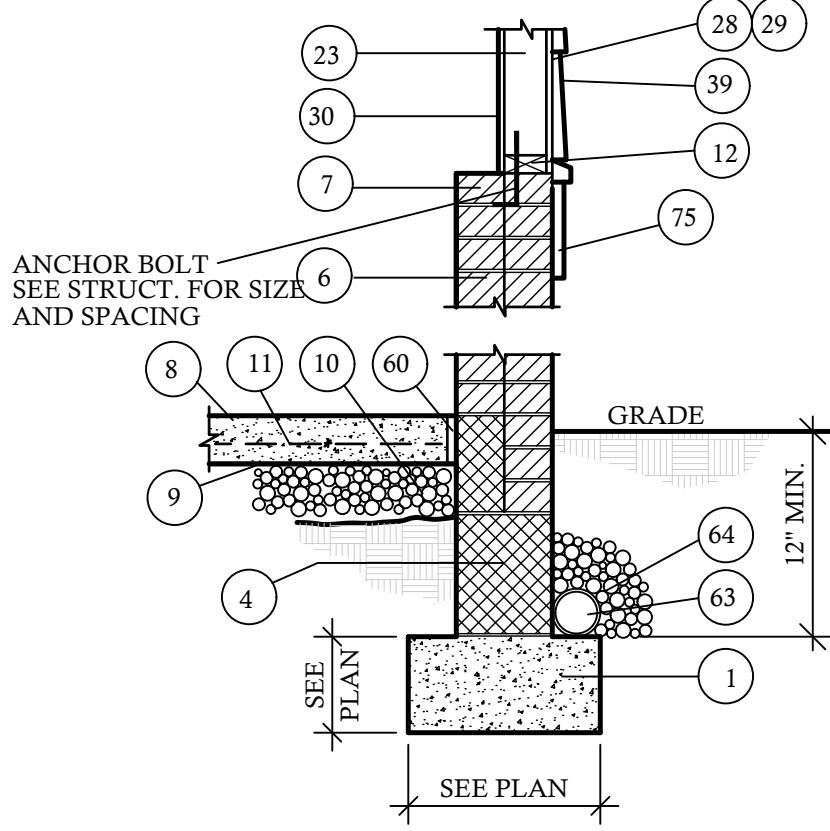
8 TYP. STAIR DETAIL @ 3/4"=1'-0"
PROPERTY OF DESIGN TECH INC.



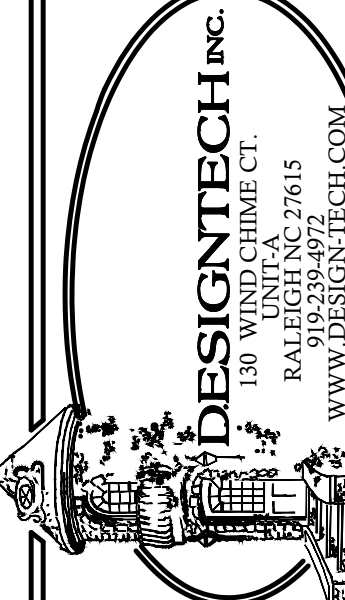
9 TYP. KITCHEN CABINET SECTION @ 3/4"=1'-0"
PROPERTY OF DESIGN TECH INC.



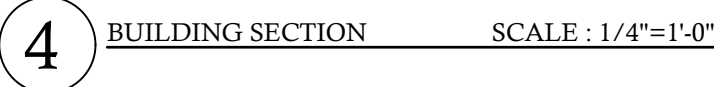
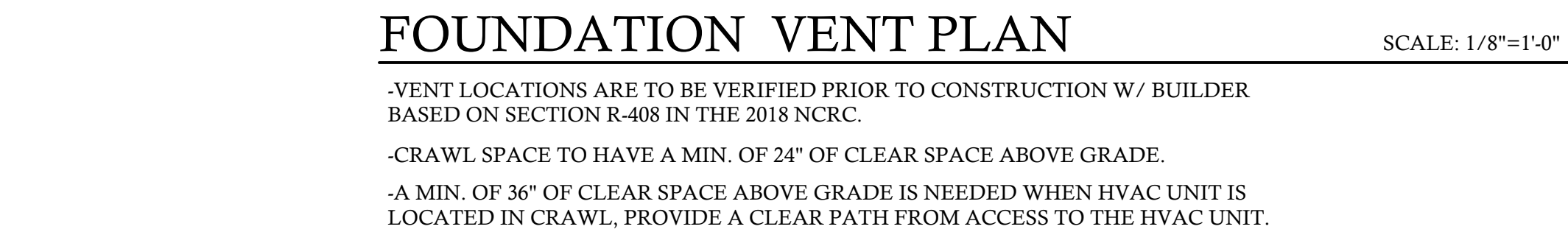
10 TYP. BENCH & PEGS SECTION @ 3/4"=1'-0"
PROPERTY OF DESIGN TECH INC.



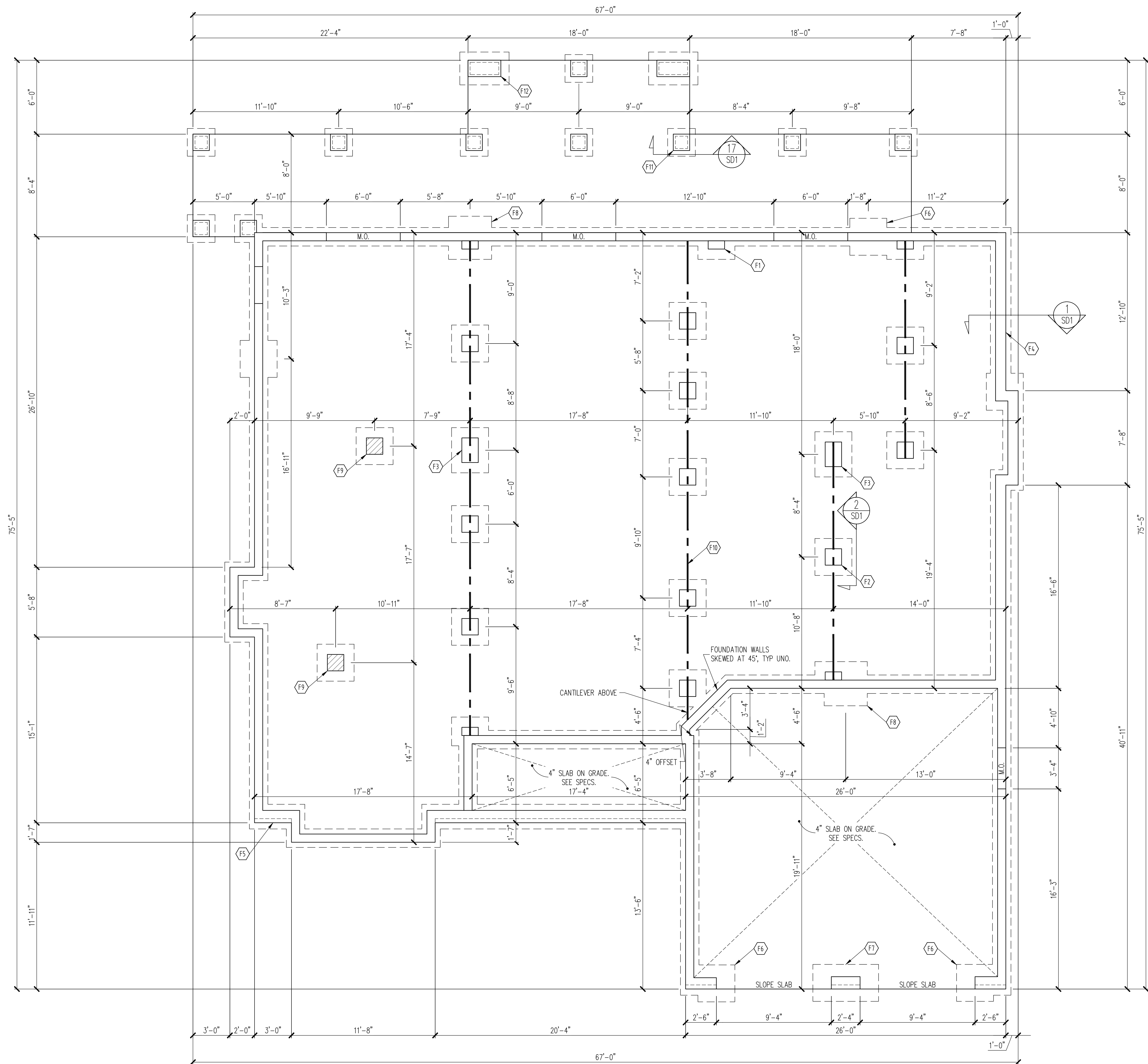
12 GARAGE WALL W/ SIDING @ 3/4"=1'-0"
PROPERTY OF DESIGN TECH INC.
DESIGNED FOR 115 MPH



JEFFRIES RESIDENCE
15-3544-DT



A
B
D



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

FOUNDATION SCHEDULE

F1 8" X 16" CMU PILASTER, PROJECT FOOTING 8" X 8" THICK, TYP UNO.

F2 16" SQ. MASONRY PIER ON A 36" SQ. X 10" THICK CONC FTG TYP UNO.

F3 16" X 24" MASONRY PIER ON A 36" X 44" X 10" THICK CONC FTG.

F4 8" THICK MASONRY FND WALL ON A 18" X 8" THICK CONT POUR CONC FTG TYP UNO

F5 12" THICK MASONRY FND WALL ON A 24" X 8" THICK CONT POUR CONC FTG, TYP @ FOUNDATION WALLS W/ BRICK VENEER ABOVE FLOOR LEVEL.

F6 ENLARGE FOOTING TO 36" SQ. X 12" THICK. SOLID MASONRY ABOVE.

F7 COMMON FOOTING 36" X 64" X 12" THICK. SOLID MASONRY ABOVE

F8 ENLARGE FOOTING TO 42" SQ. X 12" THICK. SOLID MASONRY ABOVE.

F9 FLUSH PIER SET @ FND HGT

F10 DROPPED GIRDER: (3) 1.75" X 9.25" LVL, TYP UNO.

F11 12" SQ MASONRY PIER W/ 2" STONE WRAP ON A 30" SQ. X 10" THK CONC FTG @ DECK, TYP UNO.

F12 24" X 12" MASONRY PIER 2" STONE WRAP ON 46" X 30" X 12" THICK CONC FTG, TYP @ REAR PORCH.

NOTES:
-HEIGHT AND BACKFILL LIMITATIONS FOR FOUNDATION WALLS ARE TO BE GOVERNED BY THE NCSBC, LATEST EDITION.
-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.

The structural design of this plan is the property of Engineering Tech Associates, P.A. These plans are for the one time use at the location and for the client listed. Engineering Tech Associates, P.A. 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 Engineering Tech Associates, P.A.

DESIGN TECH, INC.
STRUCTURAL ADDENDUM

SCOPE: 838 KEITH HILLS RD.
LOC: BUIES CREEK, NC
JEFFERIES RESIDENCE

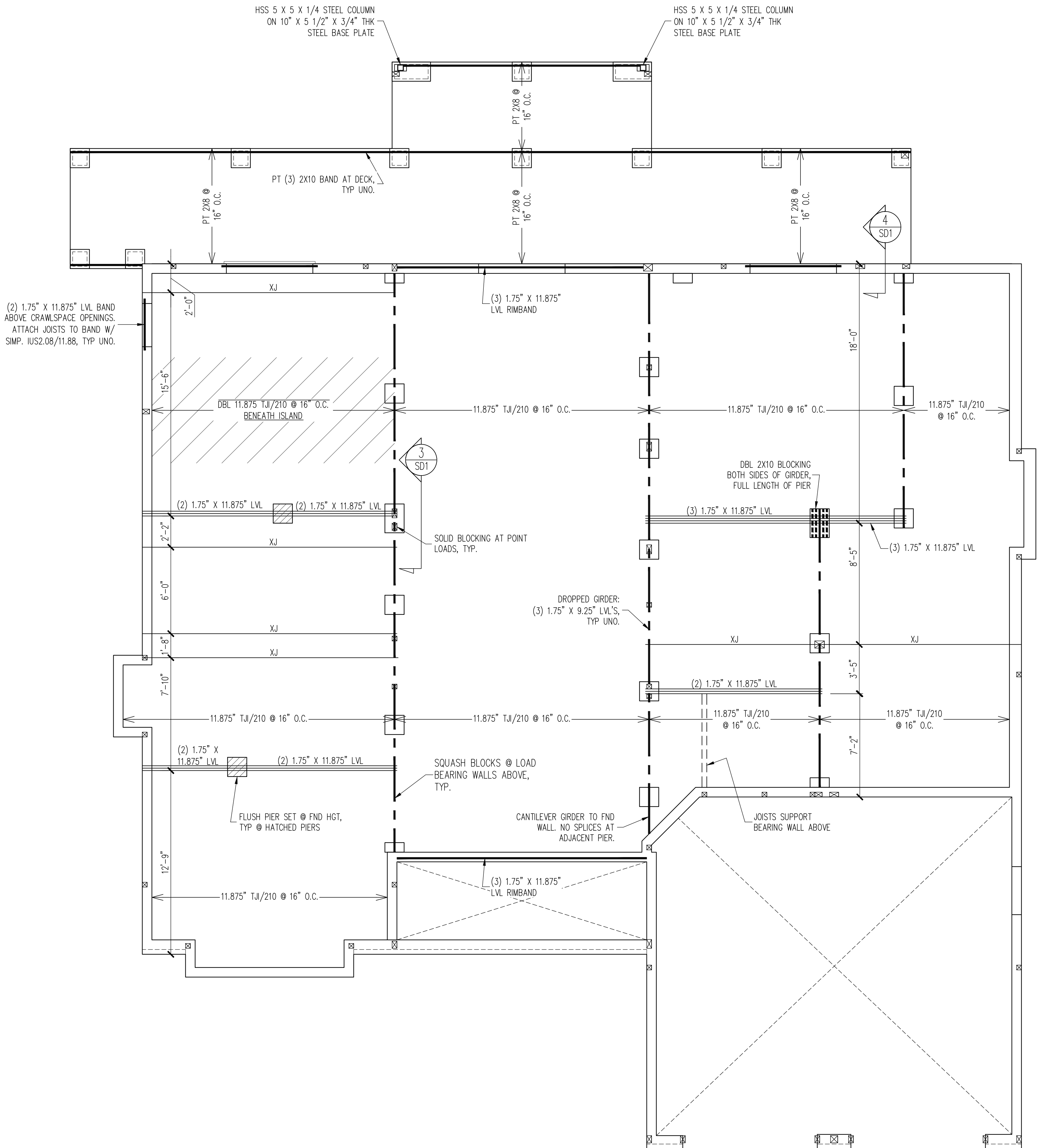
ENC: JNC
DATE: 3/25/2025

PROJECT NO.
25-15-002

SHEET NO.
S1
1 of 7

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

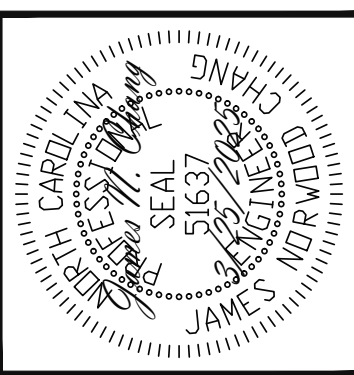
Engineering Tech Associates, P.A. Seal: CARD NO. 51637, SEAL, ENGINEER, JAMES R. WILSON, CIVIL, CHANG



CRAWLSPACE FRAMING PLAN

1/4" = 1'-0"

The structural design of this plan is the property of Engineering Tech Associates, P.A. These plans are for the one time use at the location and for the client listed. Engineering Tech Associates, P.A. 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 Engineering Tech Associates, P.A.



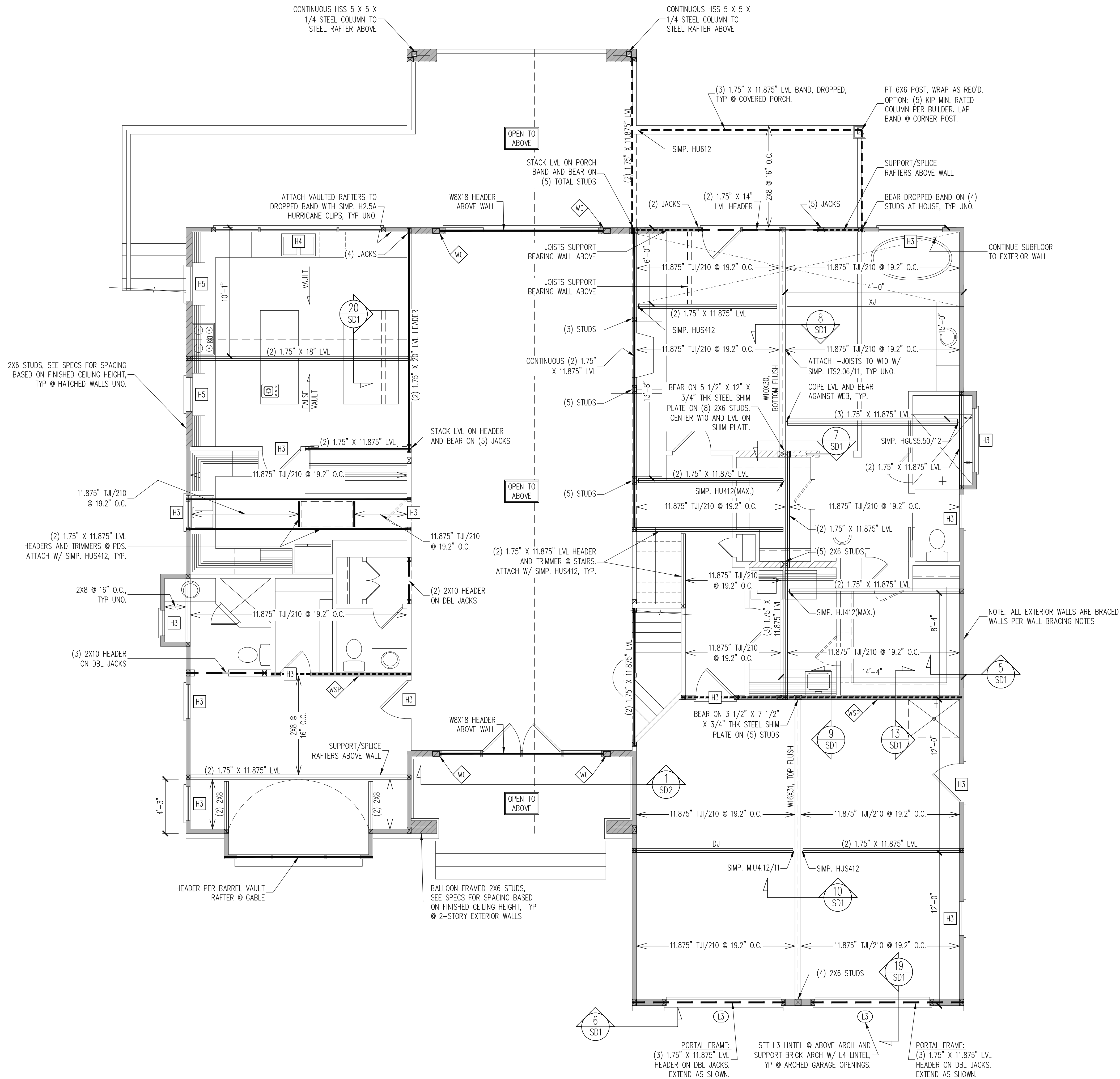
Engineering Tech Associates, P.A.
STRUCTURAL ENGINEERS
License No. C-3870
318 W Millbrook Rd. Unit 201
Raleigh, North Carolina 27609
Phone (919) 844-1661

DESIGN TECH, INC.		STRUCTURAL ADDENDUM	
SCOPE:	838 KEITH HILLS RD.	REV #	REF PROJ #
LOC:	BUIES CREEK, NC	DATE	
	JEFFERIES RESIDENCE		

ENG: JNC
DATE: 3/25/2025

PROJECT NO.
25-15-002

SHEET NO.
S2
2 of 7



WALL BRACING

CS - 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.

SHADED WALLS:

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 @ 6\" O.C. AT PANEL EDGES, 12\" O.C. IN PANEL FIELD.

GB - INTERIOR BRACED WALL. 1/2\" GB SECURED PER TABLE R602.10.1 OF THE 2018 NCRBC. (FASTENERS @ 7\" O.C.) BOTH SIDES OF WALL, OR (FASTENERS @ 4\" O.C.) ONE SIDE OF WALL AT STAIRS

WC - CONTINUOUS HSS 7 X 5 X 1/4 STEEL COLUMN

NOTES:
-PROVIDED CONTINUOUS SHEATHING = 266\" MIN.

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

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

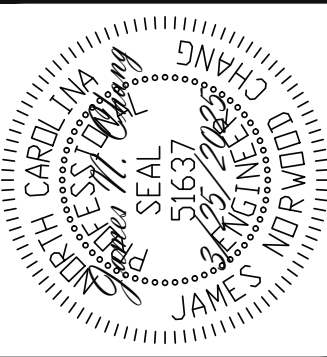
- (A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 38\" MAX.
- (B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38\" TO 74\" MAX.
- (C) TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO.

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

1ST FLOOR FRAMING PLAN

WALLS AND CEILING: 1/4\" = 1'-0"

The structural design of this plan is the property of Engineering Tech Associates, P.A. These plans are for the one time use at the location and for the client listed. Engineering Tech Associates, P.A. 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 Engineering Tech Associates, P.A.



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

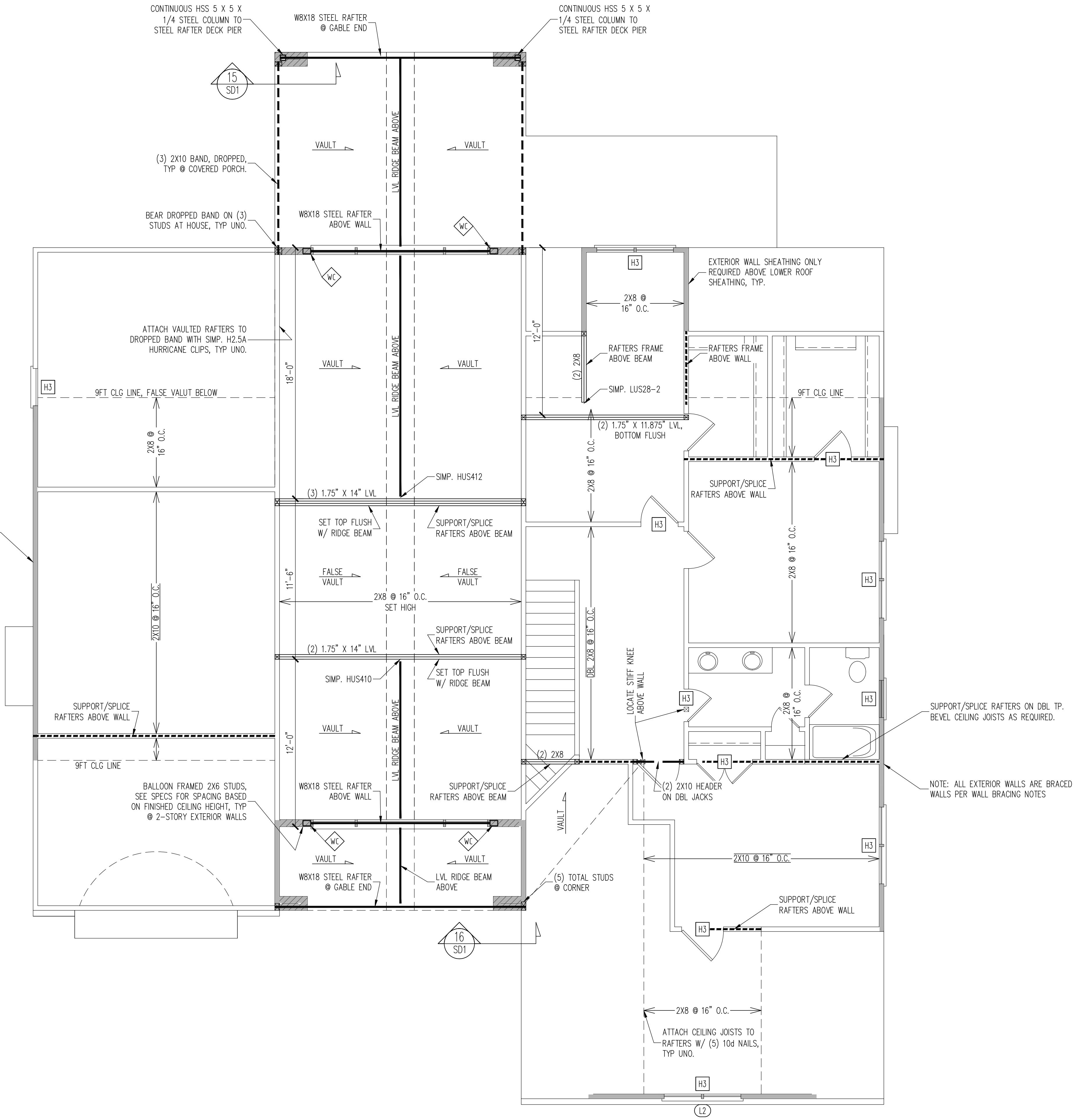
SCOPE:	DESIGN TECH, INC.			
	STRUCTURAL ADDENDUM			
	LOC:	838 KEITH HILLS RD.	REV #	REF PROJ #
		BUIES CREEK, NC		
	JEFFERIES RESIDENCE			DATE

ENG: JNC
DATE: 3/25/2025

PROJECT NO.
25-15-002

SHEET NO.
S3
3 of 7

NOTE: ALL EXTERIOR GABLE END WALLS
ARE CONTINUOUSLY SHEATHED BRACED
WALLS PER WALL BRACING NOTES



WALL BRACING

CS - 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.

SHADED WALLS:

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 @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD.

GB - INTERIOR BRACED WALL. 1/2" GB SECURED PER TABLE R602.10.1 OF THE 2018 NCRBC. (FASTENERS @ 7" O.C.) BOTH SIDES OF WALL, OR (FASTENERS @ 4" O.C.) ONE SIDE OF WALL AT STAIRS

WC - CONTINUOUS HSS 7 X 5 X 1/4 STEEL COLUMN

NOTES:
-PROVIDED CONTINUOUS SHEATHING = 135" MIN.

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

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

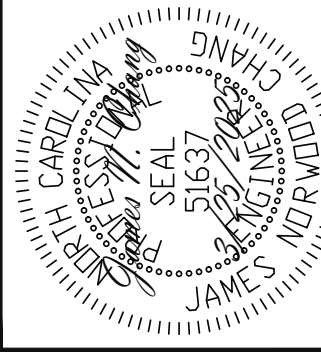
- (A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 38" MAX.
(B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" TO 74" MAX.
(C) TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO.

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

2ND FLOOR FRAMING PLAN

WALLS AND CEILING: 1/4" = 1'-0"

The structural design of this plan is the property of Engineering Tech Associates, P.A. These plans are for the one time use at the location and for the client listed. Engineering Tech Associates, P.A. 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 Engineering Tech Associates, P.A.



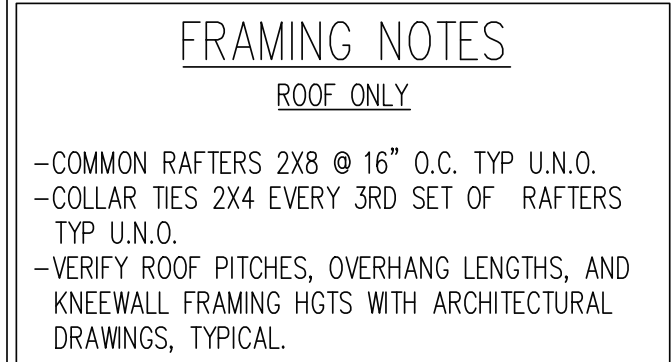
STRUCTURAL ENGINEERS
License No. C-3870
318 W Millbrook Rd. Unit 201
Raleigh, North Carolina 27609
Phone (919) 844-1661
Engineering Tech Associates, P.A.

DESIGN TECH, INC.				
SCOPE	STRUCTURAL ADDENDUM			
LOC:	838 KEITH HILLS RD.	REV #	REF PROJ #	DATE
	BUJES CREEK, NC			
JEFFERIES RESIDENCE				

ENG: JNC
DATE: 3/25/2025

PROJECT NO.
25-15-002

SHEET NO.
S4
4 of 7

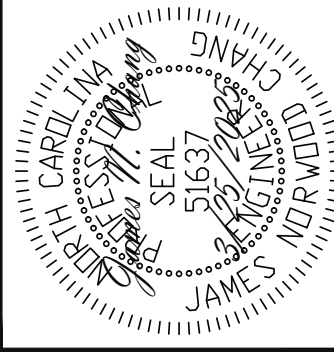


<h1 style="text-align: center; margin: 0;">FRAMING SCHEDULE</h1> <h2 style="text-align: center; margin: 0;"><u>ROOF ONLY</u></h2>	
OV	OVERFRAME VALLEY (2X10 SLEEPER)
SK	STIFF KNEE (DBL 2X4)
SS	SUPPORT/SPICE RAFTERS ON KNEEWALL BELOW
SB	SUPPORT/SPICE RAFTERS ON BEAM BELOW
BR	SUPPORT BRICK VENEER PER SECT 703.8.2 OF THE NCRC, LATEST EDITION
AN	SUPPORT BRICK VENEER WITH ANGLE ATTACHED TO MODIFIED STUD WALL
DR	DOUBLE RAFTER

ROOF FRAMING PLAN

$$\underline{1/4'' = 1'-0}$$

The structural design of this plan is the property of Engineering Tech Associates, P.A. These plans are for the one time use at the location and for the client listed. Engineering Tech Associates, P.A. 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 Engineering Tech Associates, P.A.



Engineering
SL
Tech
ASSOCIATES, P.A.

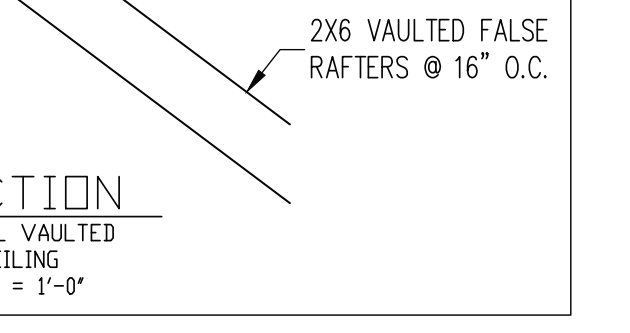
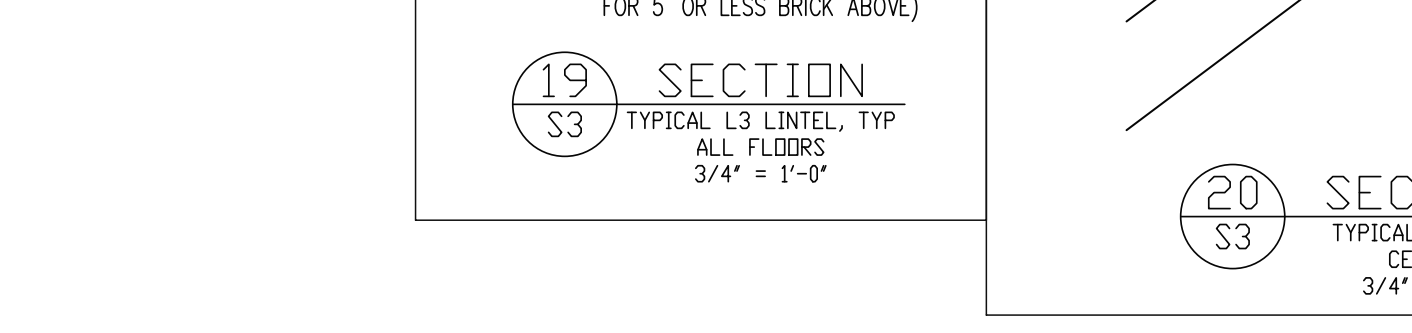
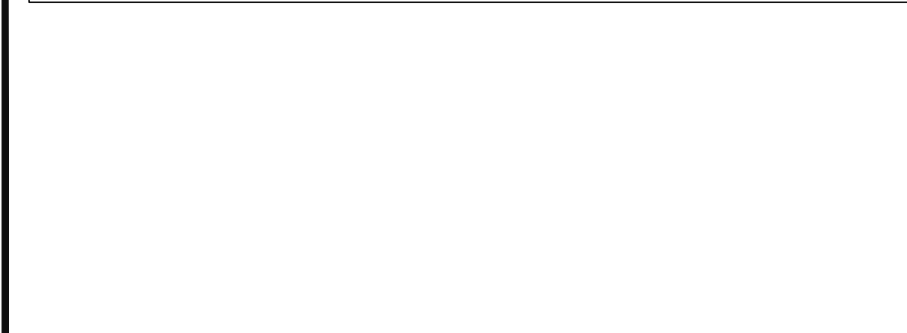
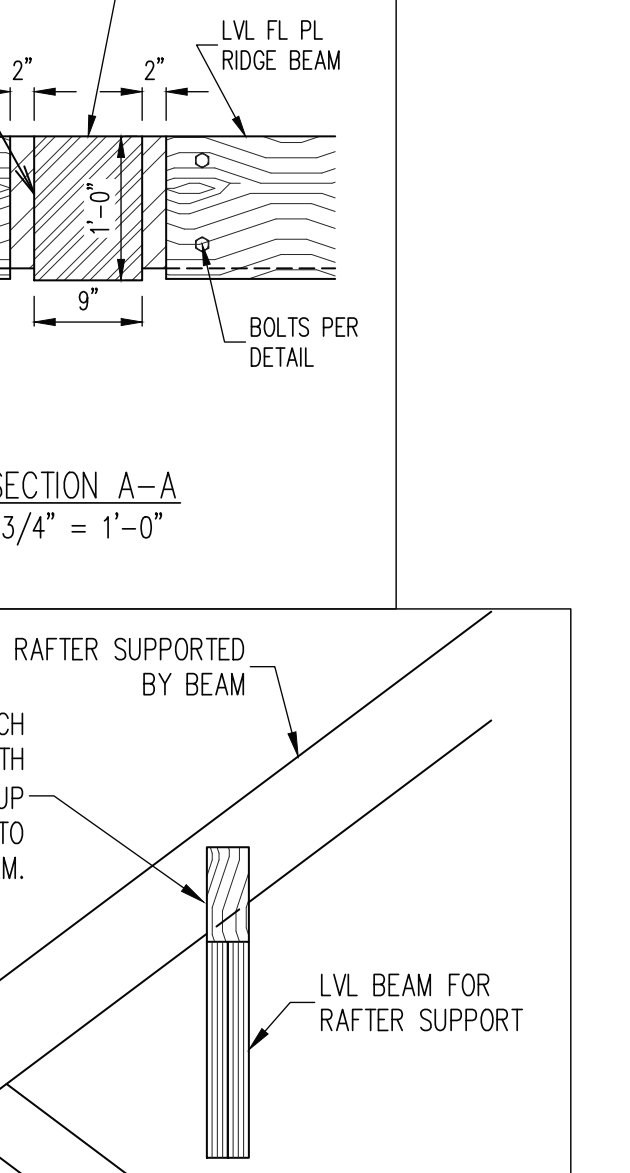
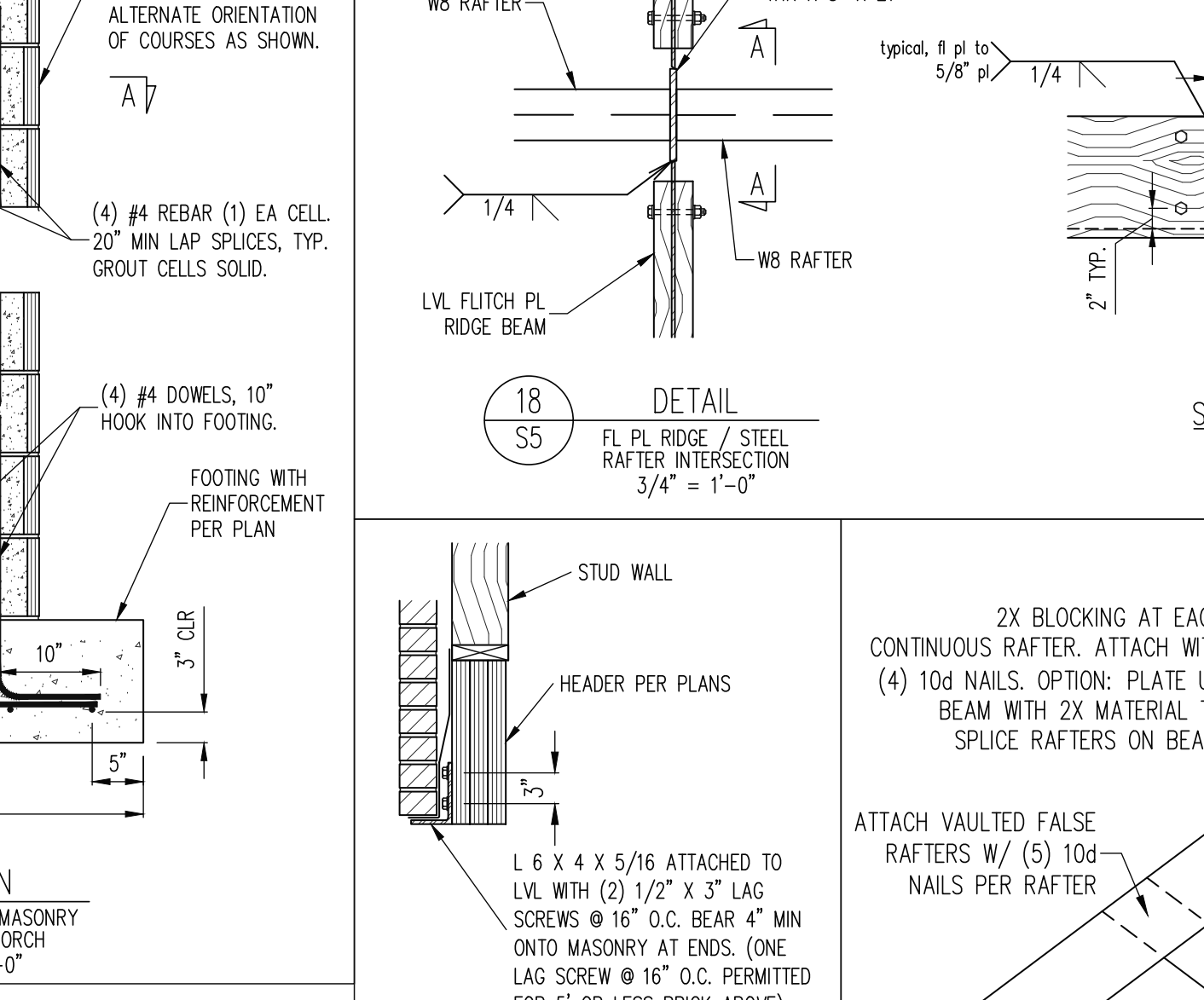
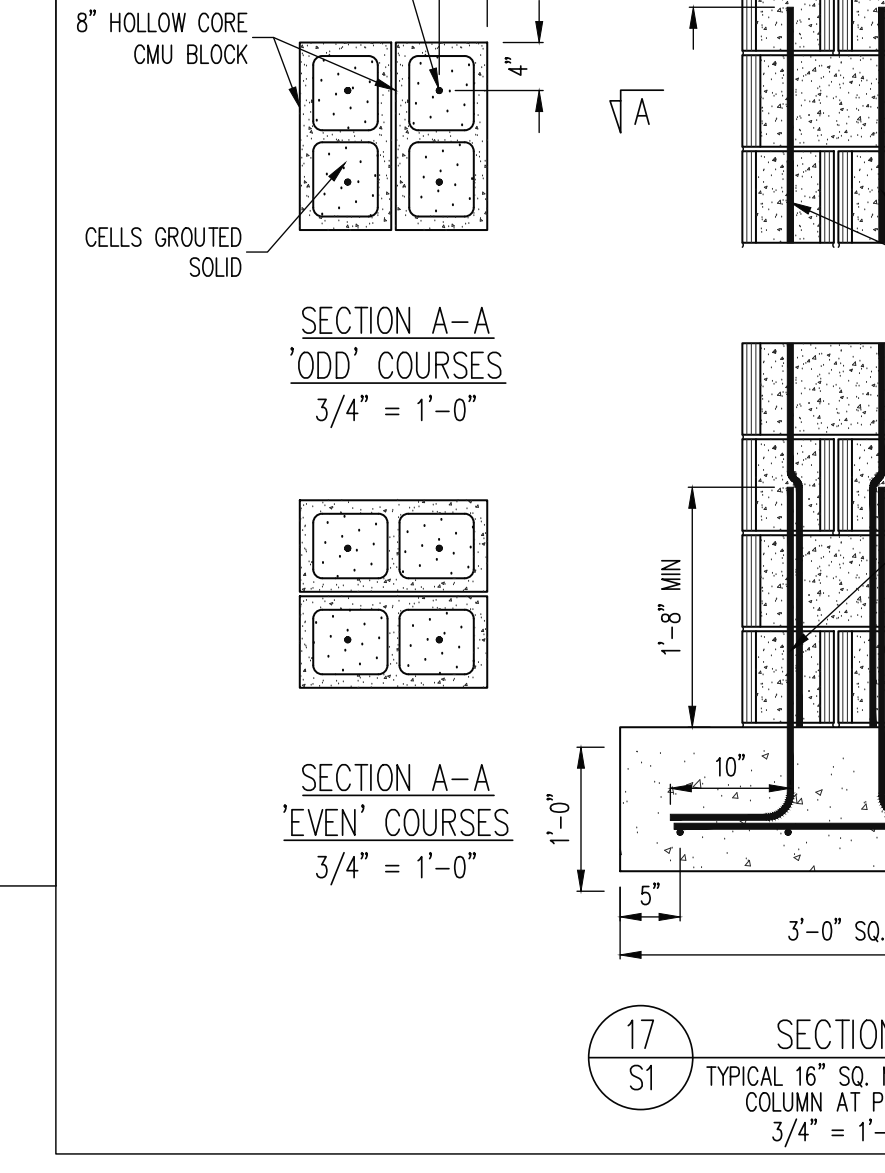
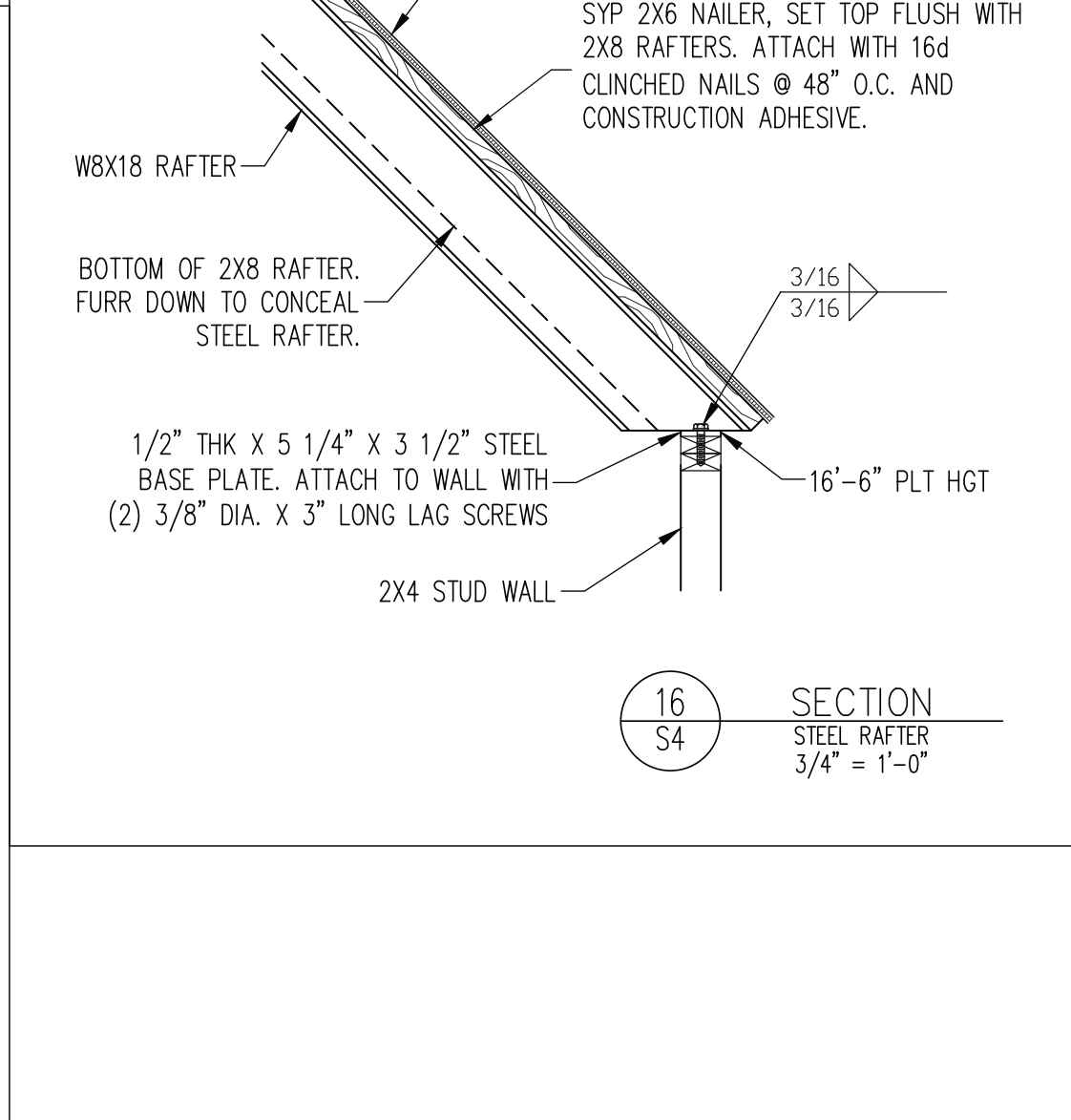
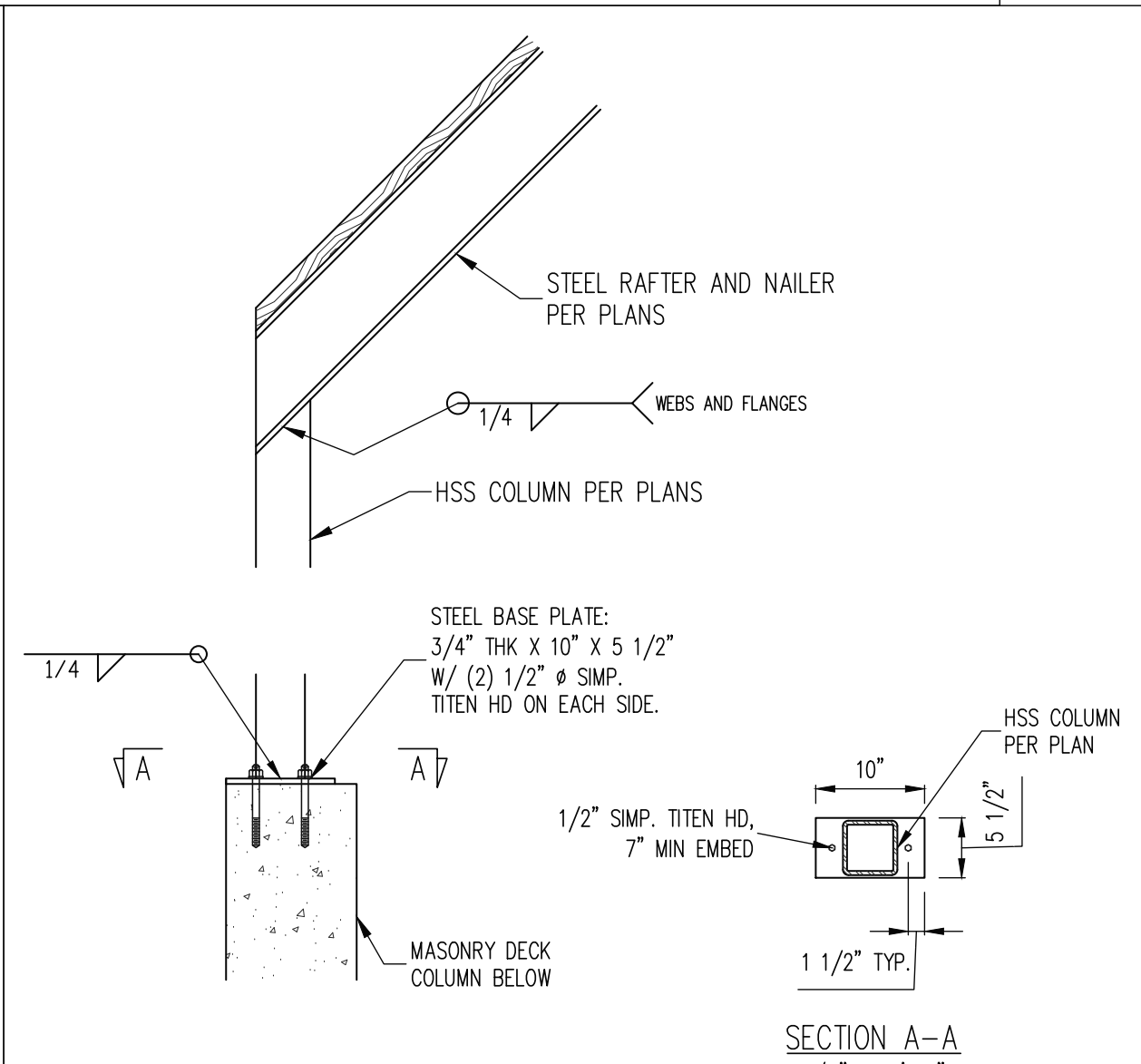
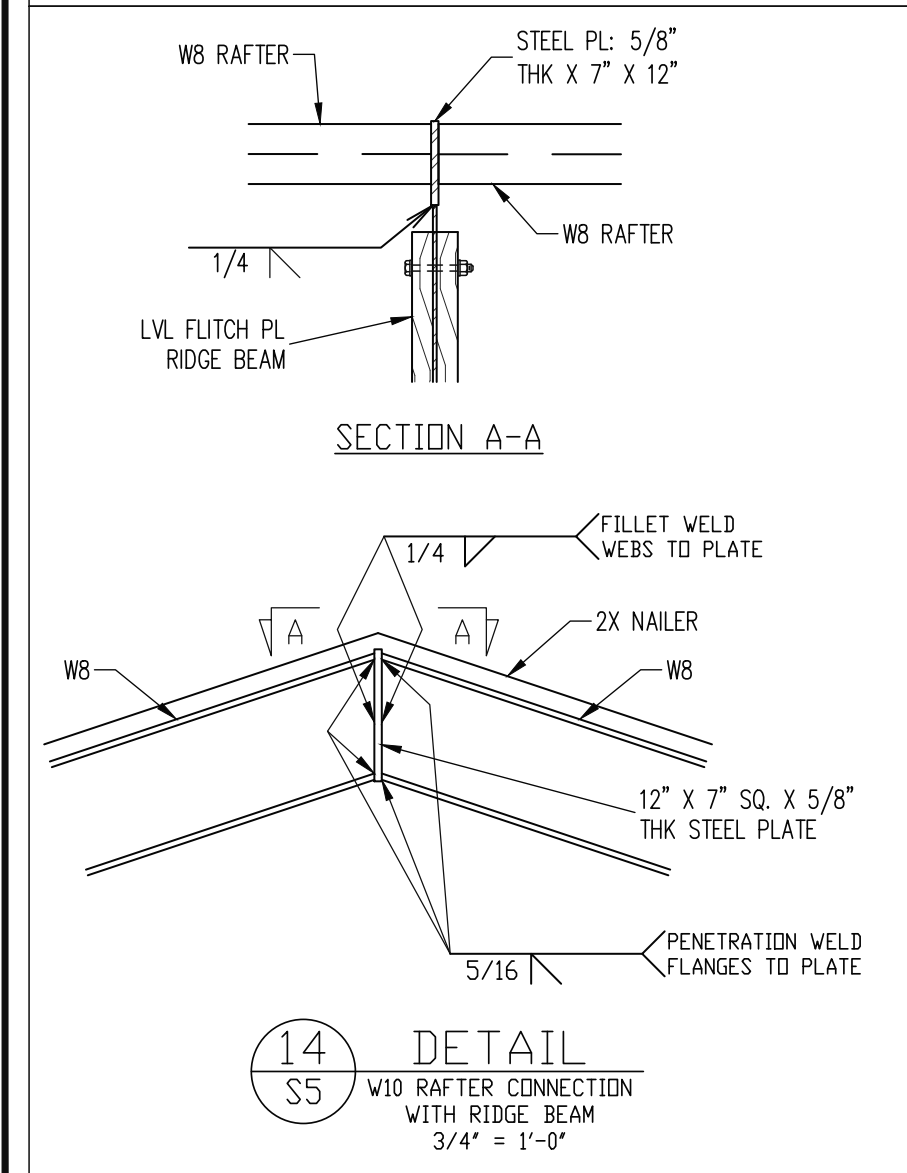
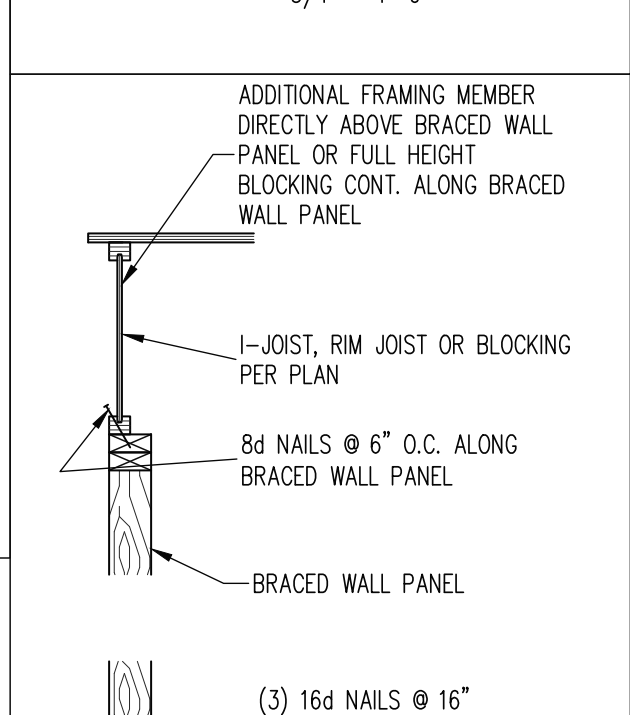
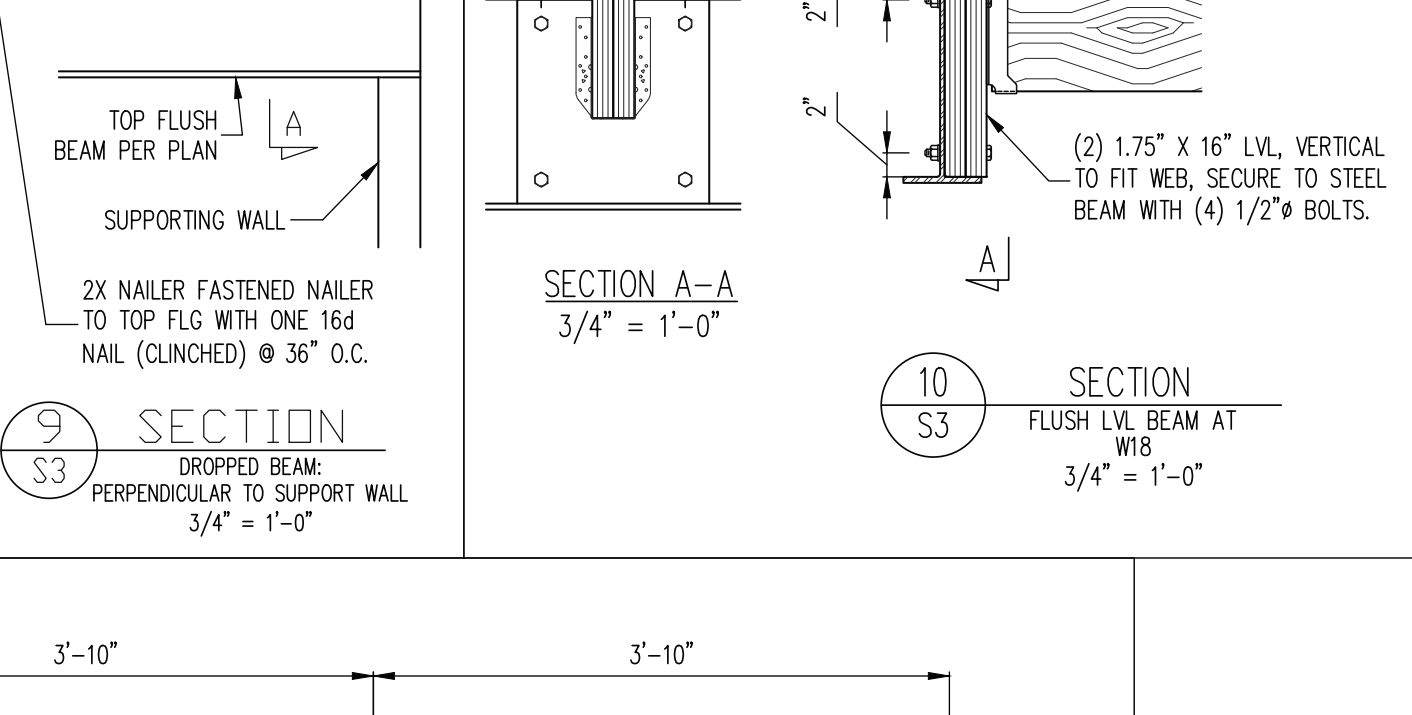
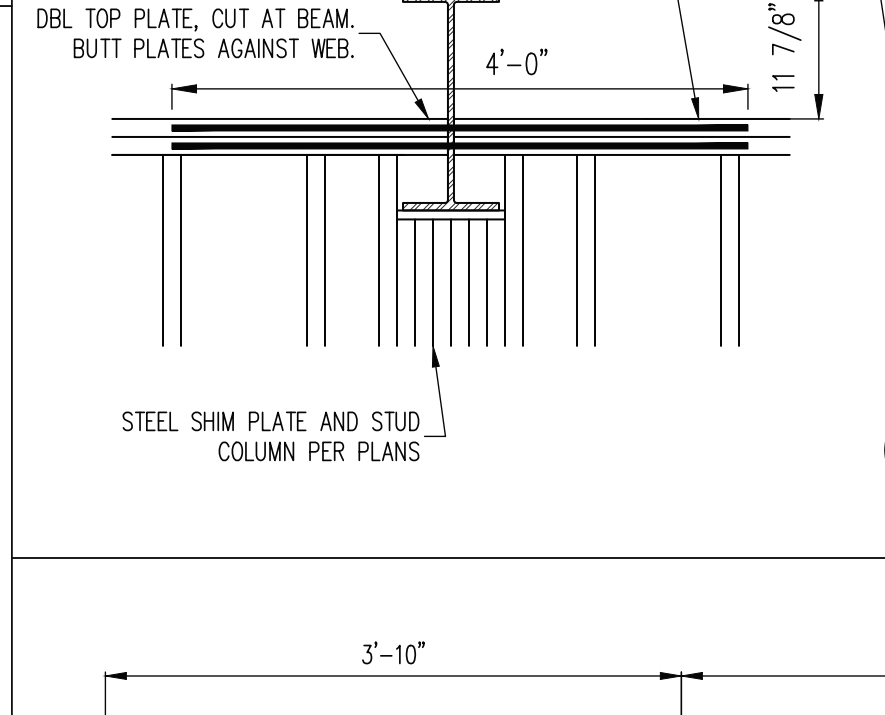
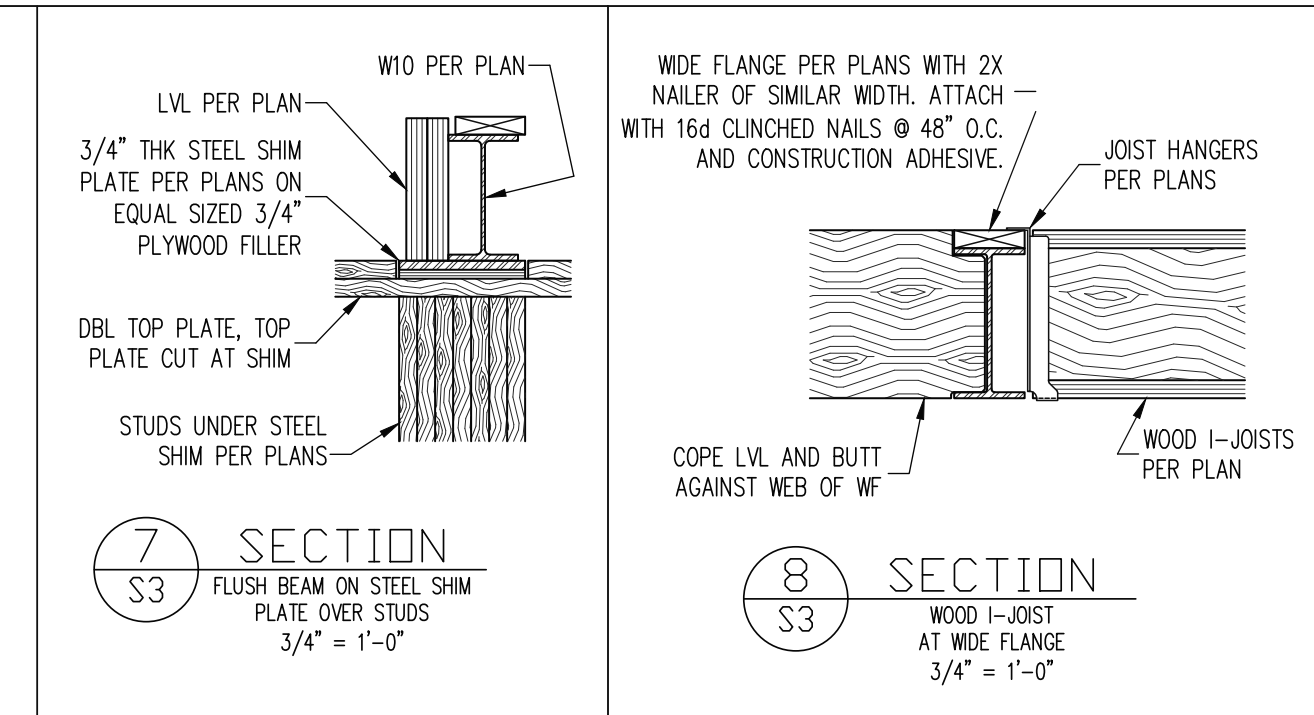
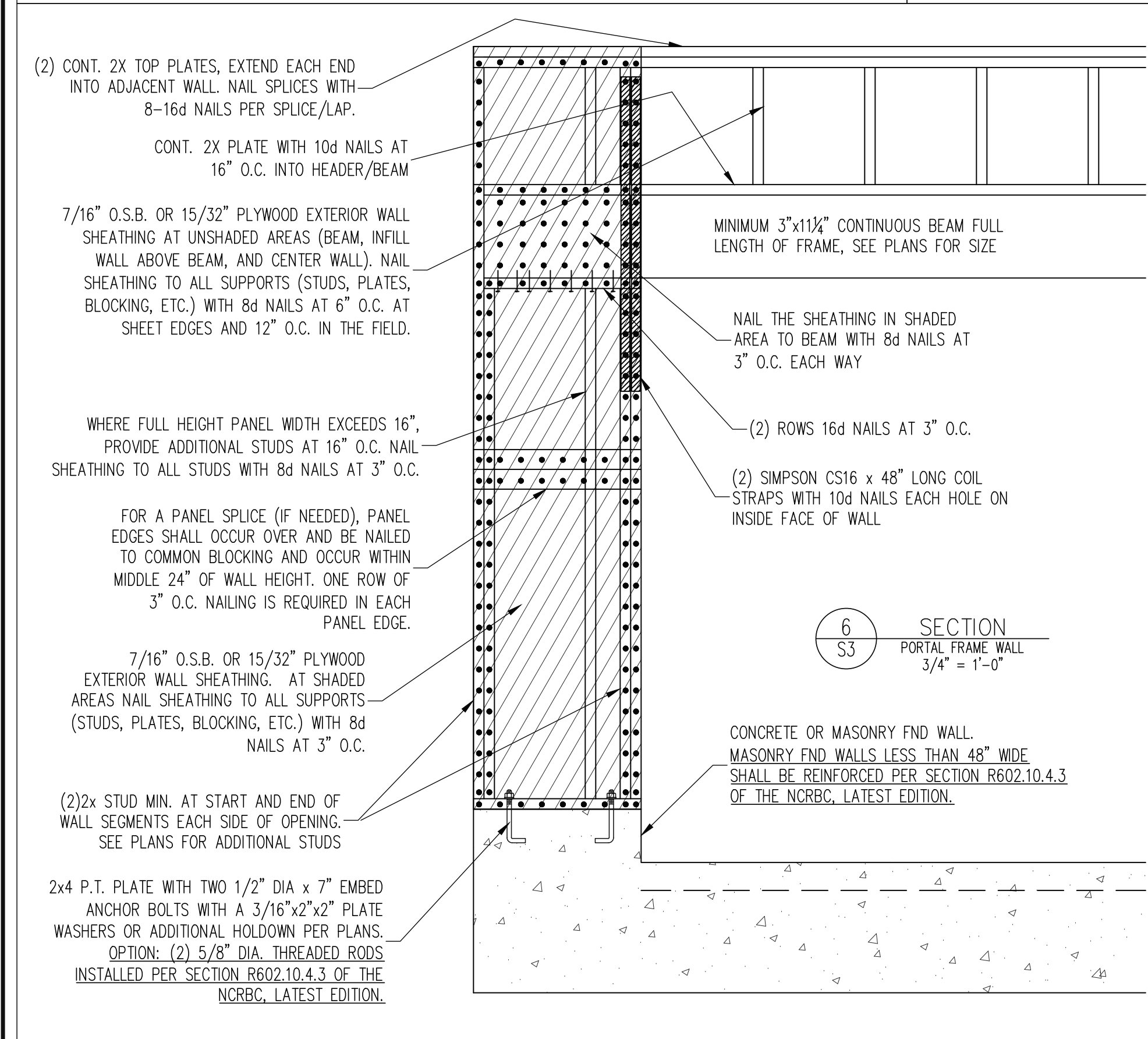
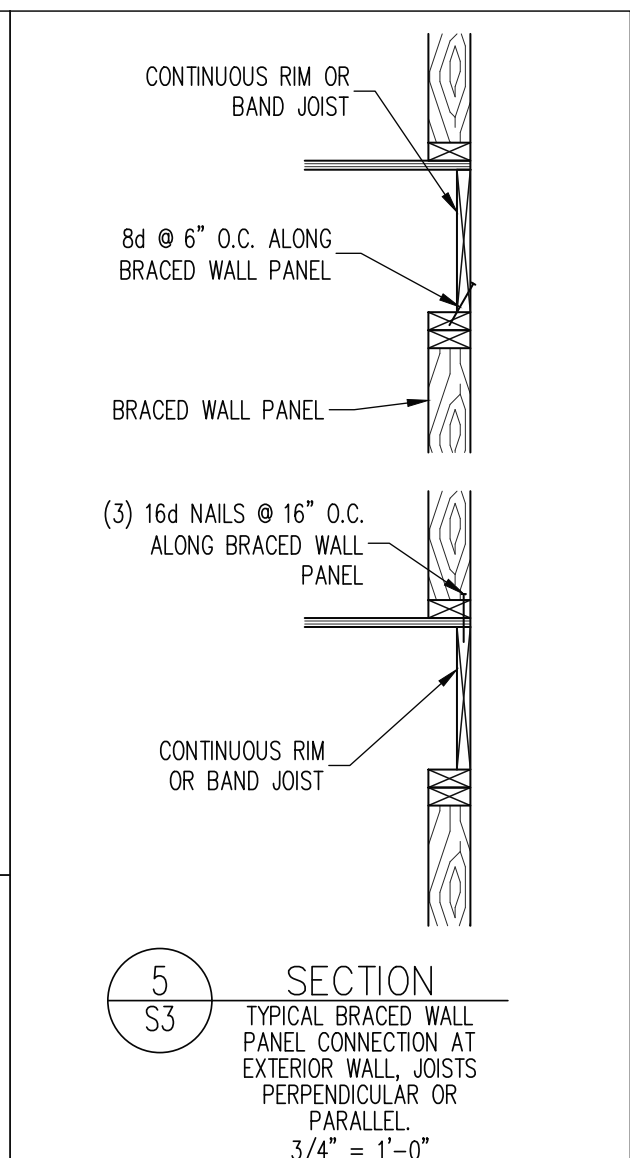
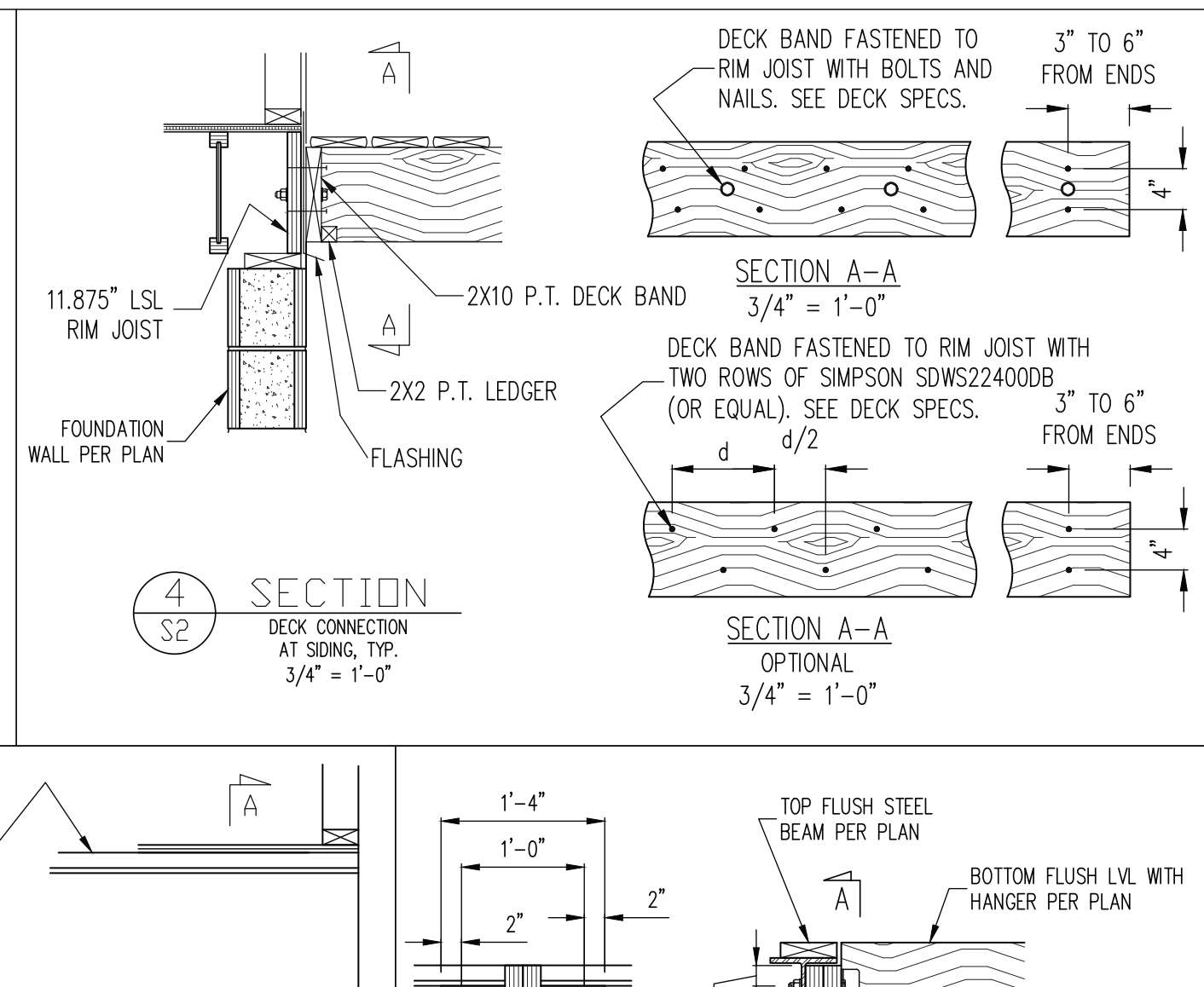
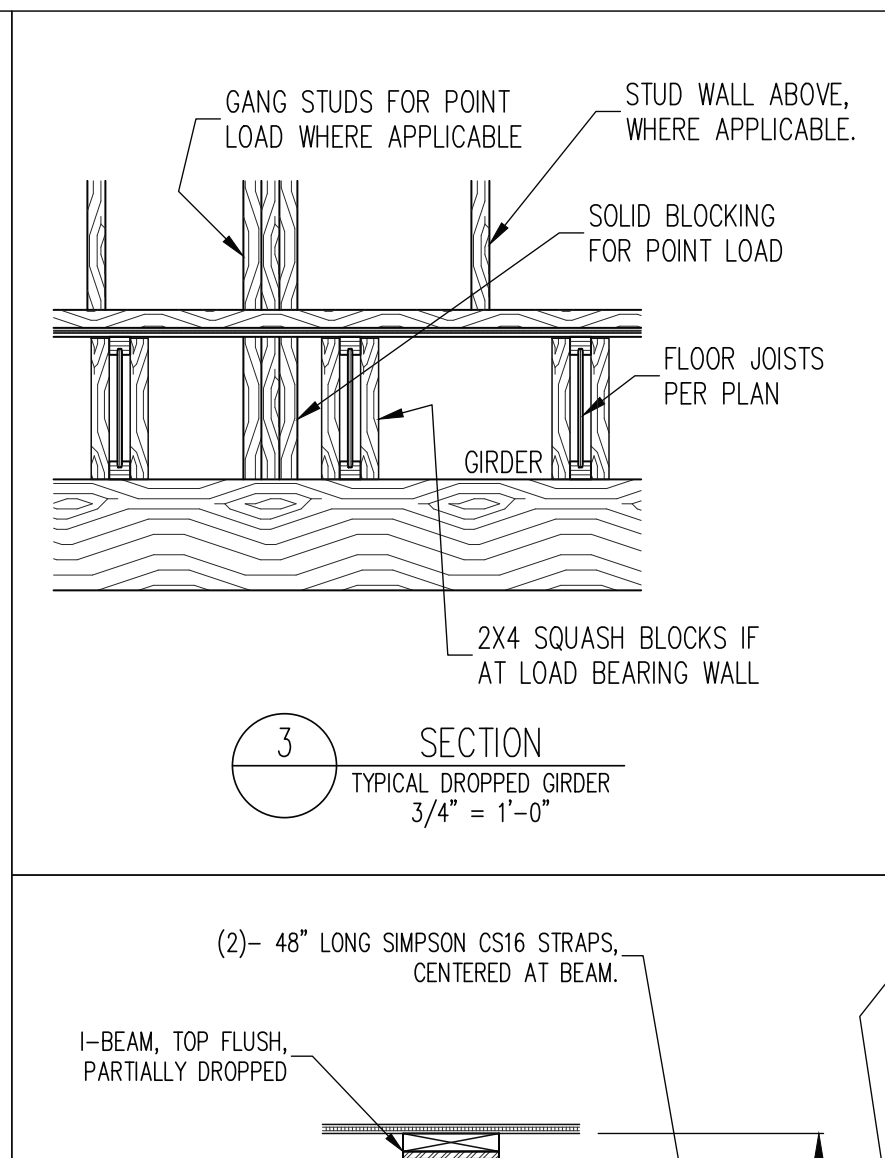
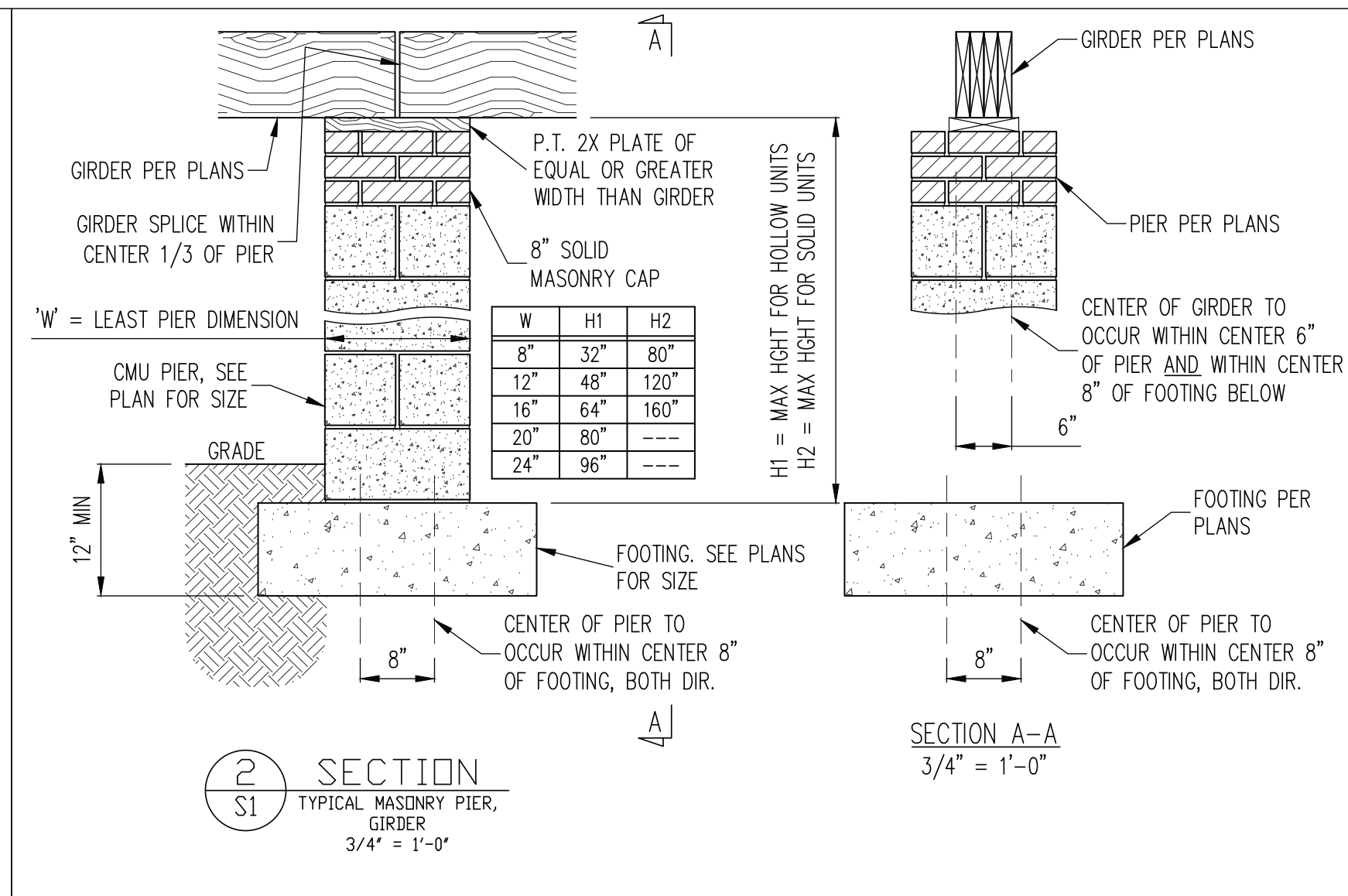
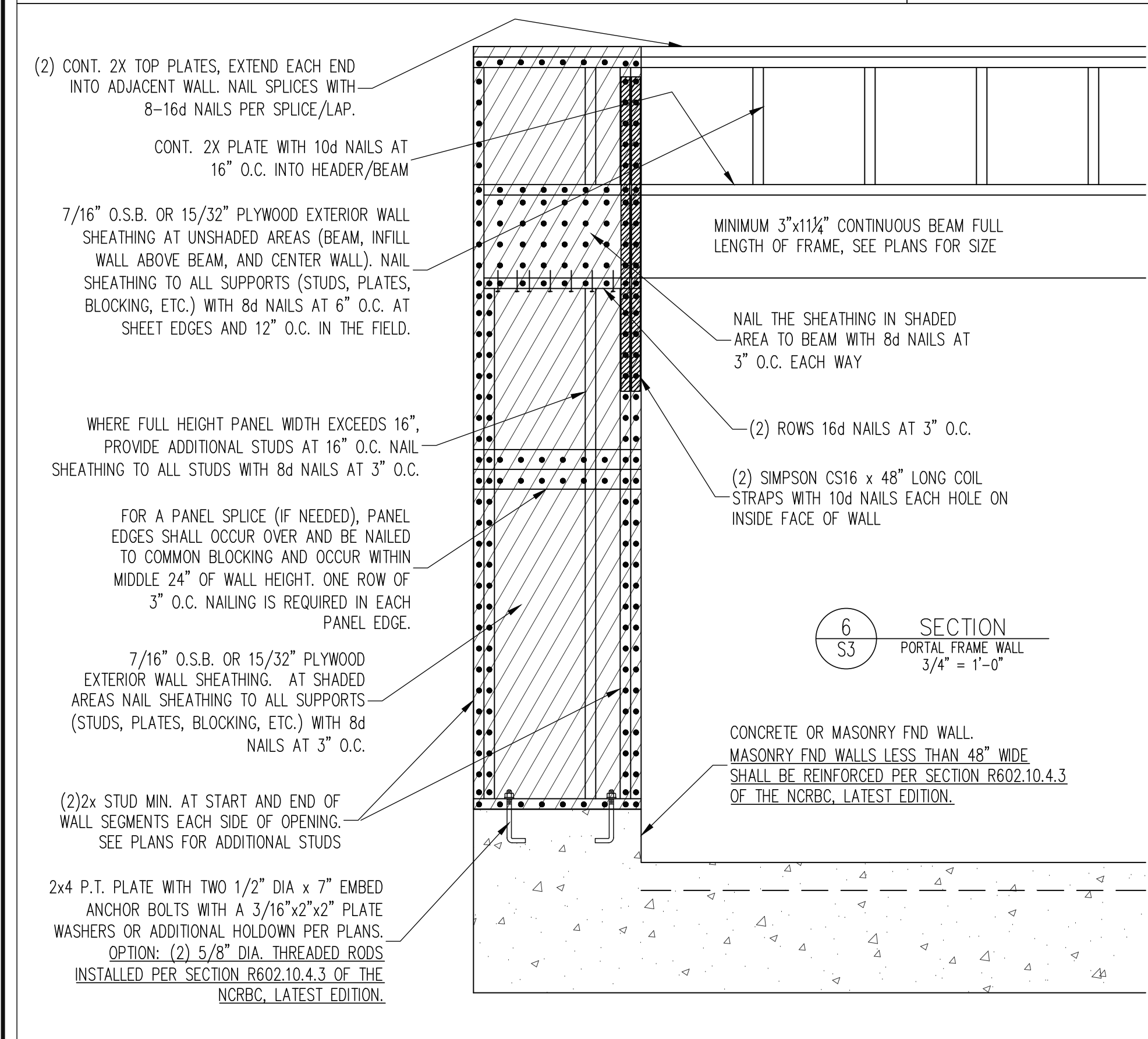
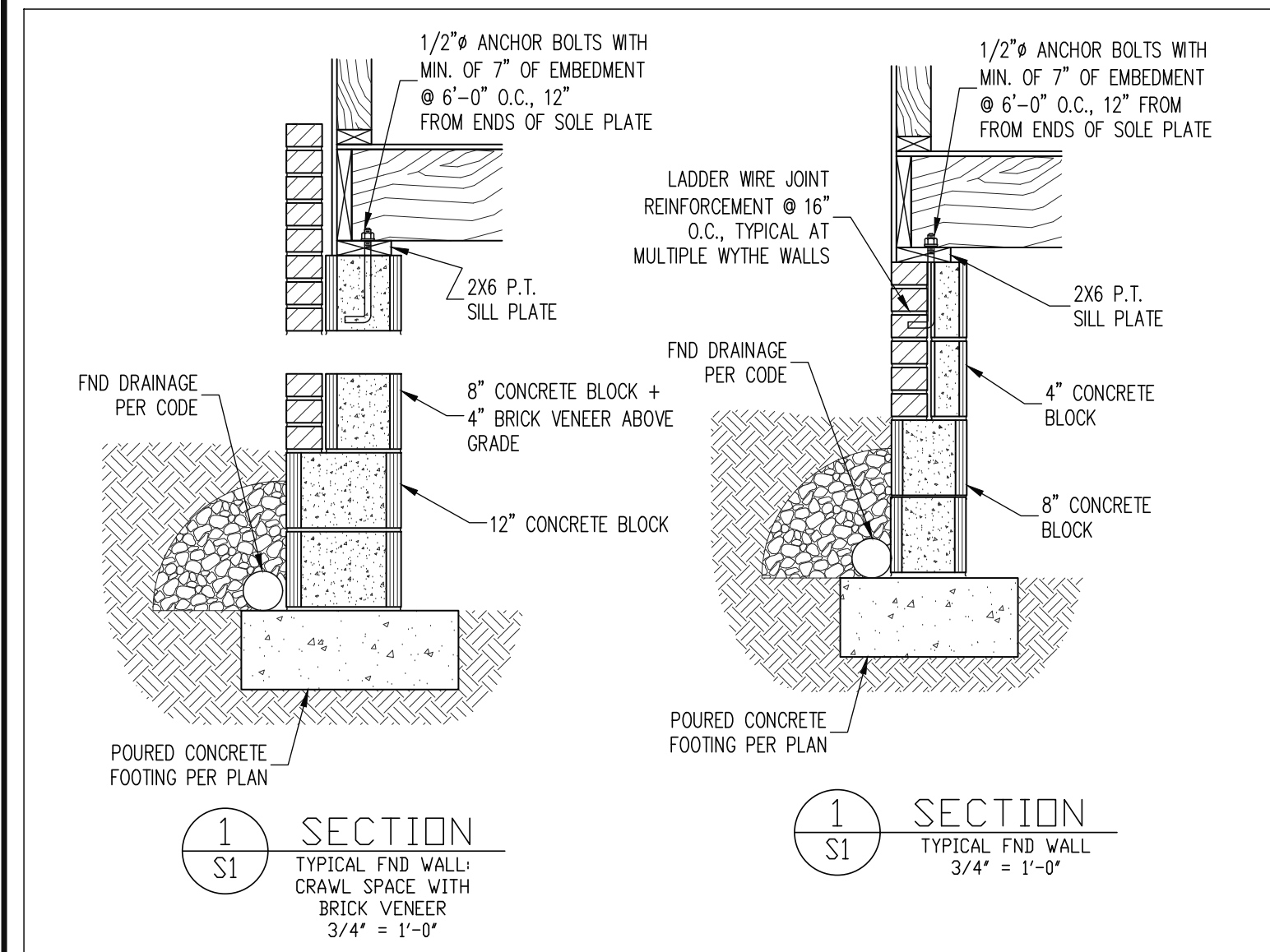
STRUCTURAL ENGINEERS
License No. C-3870
318 W Millbrook Rd. Unit 201
Raleigh, North Carolina 27609
Phone (919) 844-1661

DESIGN TECH, INC.			
STRUCTURAL ADDENDUM			
SCOPE	REV #	REF PROJ #	DATE
LOC:	838	KEITH HILLS RD.	
		BUIES CREEK, NC	
		ICEFORDS RESIDENCE	

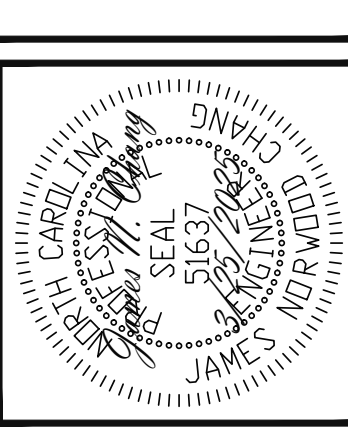
ENG:	JNC
DATE:	3/25/2025

PROJECT NO.
25-15-002

SHEET NO.
S5
5 of 7



The structural design of this plan is the property of Engineering Tech Associates, P.A. These plans are for the one time use at the location and for the client listed. Engineering Tech Associates, P.A. 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 Engineering Tech Associates, P.A.



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

SCOPE	LOC	REV #	REF PROJ #	DATE
DESIGN TECH, INC.	838 KEITH HILLS RD.			
STRUCTURAL ADDENDUM	BUIES CREEK, NC			
	JEFFERIES RESIDENCE			

ENG:	JNC
DATE:	3/25/2025
PROJECT NO.	25-15-002
SHEET NO.	SD1
	6 of 7

