

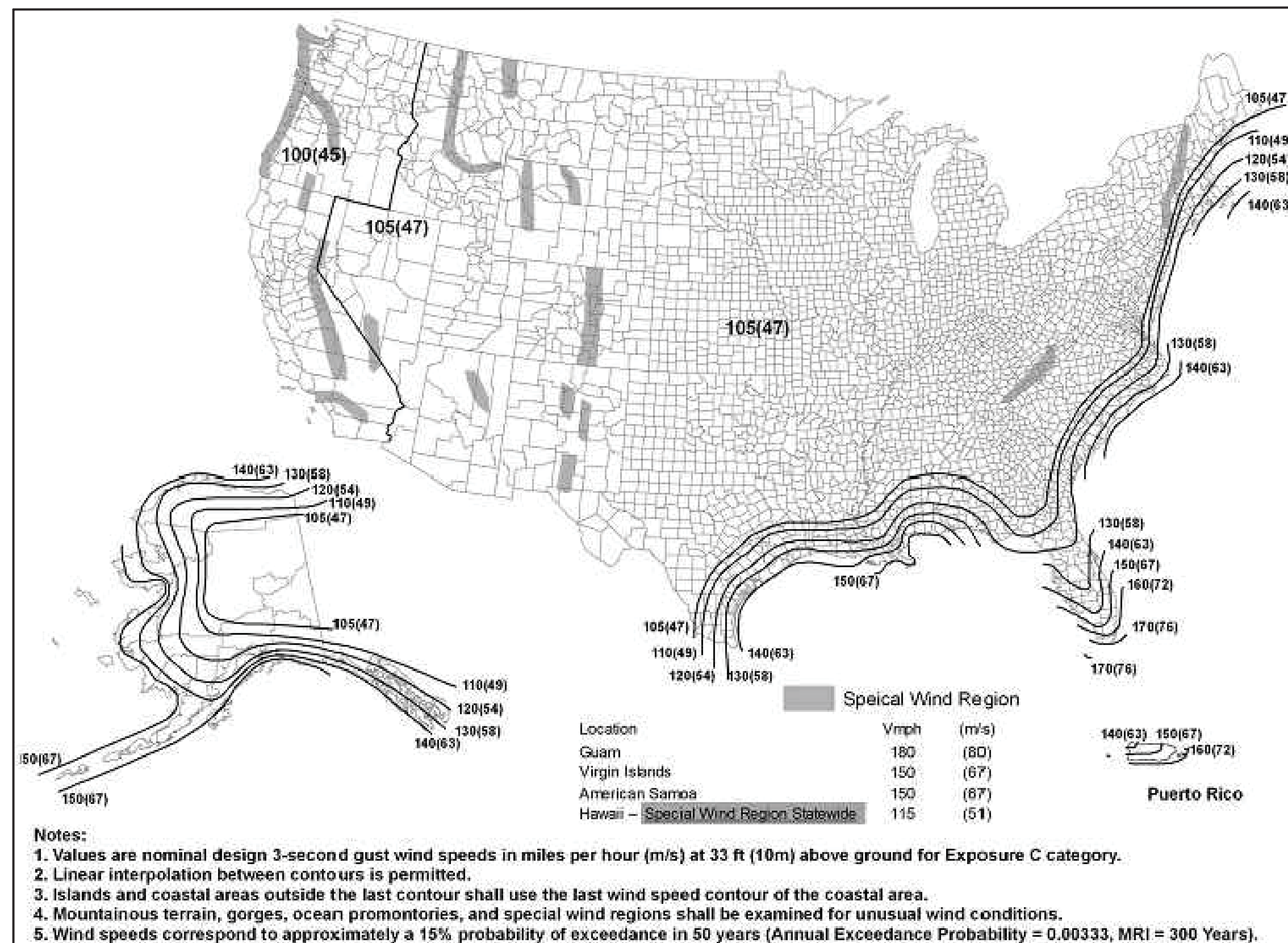
UTILITY SHED PLANS

STATE OF VIRGINIA (160 MPH) WINDS



PORTABLE BUILDINGS

WIND CHART



GENERAL NOTES:

- THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE 2015 VIRGINIA BUILDING CODE, BUILDING (VABC).
- ALL MATERIALS AND LABOR SHALL BE IN ACCORDANCE WITH THE ABOVE CODE AND ALL OTHER APPLICABLE LOCAL CODES AT THE TIME OF MANUFACTURE.
- WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- THE FOUNDATION PLAN IS A SEPARATE SET OF PLANS FOR APPROVAL BY LOCAL MUNICIPALITIES.
- EXTERIOR DIMENSIONS CAN VARY BETWEEN LIMITS SHOWN @ 2'-0" o/c BUT MEMBER SPACING SHALL NOT EXCEED LIMITS AS INDICATED.
- ALL THE FOLLOWING LUMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA USE CATEGORY UC4B (GROUND CONTACT, HEAVY DUTY) SKIDS.
- ALL THE FOLLOWING LUMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA USE CATEGORY UC3B (EXTERIOR ABOVE GROUND, UNCOATED OR POOR WATER RUNOFF), FLOORS JOISTS, PLYWOOD FLOOR DECKING, AND EXTERIOR RATED WOOD STRUCTURAL PANEL SIDING.
- LP PROSTRUCT SUB-FLOORING 3/4" MAY BE USED IN LIEU OF PRESSURE TREATED PLYWOOD FLOORING.
- P.T. PLYWOOD FLOORING NOT REQUIRED WHERE THE BOTTOM OF THE FLOORING IS OVER 18" ABOVE GROUND SECTION 2304.11.2.1 VABC 2015.
- ALL FASTENERS AND CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED (G185) OR STAINLESS STEEL.
- ALL WINDOWS WITHIN 24" OF DOORS, AND ALL GLASS IN DOORS SHALL BE SAFETY, TEMPERED, OR ACRYLIC PLASTIC SHEET.
- FOR ROOFS WITH ASPHALT SHINGLES AND A SLOPE BETWEEN 2 TO 12 AND 4 TO 12 SHALL HAVE A DOUBLE UNDERLAYMENT APPLICATION AS REQUIRED IN ACCORDANCE WITH SECTION 1507.2.8 OF THE 2015 VABC
- UNDERLAYMENT SHALL CONFORM WITH SECTION 1507.2.3 (ASPHALT SHINGLES) AND 1507.4.5 (METAL ROOF PANEL) OF THE 2015 VABC
- ASPHALT SHINGLES SHALL CONFORM WITH SECTION 1507.2.5 OF THE 2015 VABC ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH 1507.2.7 OF THE 2015 VABC
- FASTENERS FOR ASPHALT SHINGLES SHALL CONFORM TO SECTION 1507.2.6 OF THE 2015 VABC
- TIE-DOWNS SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE CODES.
- THESE PLANS HAVE NOT BEEN DESIGN FOR HVHZ REQUIREMENTS AS SET FORTH IN THE 2015 VABC OR FOR USE AS A COMMERCIAL BUILDING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY AND PLACEMENT OF LAWN STORAGE UNIT TO INSURE THE INTEGRITY OF THE BUILDING AND ITS COMPONENT PARTS.
- NO FIELD REVISIONS TO ANY STRUCTURAL COMPONENT OR DEVIATION FROM THESE DRAWINGS SHALL BE MADE.
- THE OWNER AND THE CONTRACTOR SHALL HOLD HARMLESS THE ENGINEER FROM AND AGAINST ALL LIABILITY CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING LEGAL FEES ARISING OUT OF OR RESULTING FROM ERROR OR OMISSIONS IN THE PERFORMANCE OF THE WORK BY THE CONTRACTOR.
- SECTIONS AND DETAILS ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY AT ALL SIMILAR LOCATIONS, UNLESS OTHER SECTIONS AND DETAILS ARE SPECIALLY REFERENCED.
- REFER TO SUPPLIED FASTENING SCHEDULE FOR FASTENING BASE ON CONNECTION AND LOCATION OF MEMBERS AS PER 2015 VIRGINIA BUILDING CODE TABLE 2304.9.1 UNLESS NOTED OTHERWISE.
- BUILDINGS HAVE BEEN DESIGNED FOR LP SMARTSIDE PRECISION PANEL SIDING, LP SMARTSIDE PRECISION LAP SIDING SHALL NOT BE USED.
- FASTENERS IN LP SMARTSIDE PRECISION PANEL SIDING MUST NOT BE INSTALLED IN PANEL SIDING GROOVES IN THE FIELD OF THE PANEL SIDING OR WHEN THE PANEL SIDING GROOVES OCCUR AT CUT EDGES OF THE PANEL SIDING.
- REFER TO THE ICC-ES EVALUATION REPORT ESR-1301 FOR ADDITIONAL DATA AND SPECIFICATIONS OF LP SMARTSIDE PRECISION PANEL SIDING. VIRGINIA PRODUCT APPROVAL 9190.5 & 9190.6
- MAX OPENING WIDTHS MUST COMPLY WITH DESIGN RATIOS AS PER ANSI/AF&PA SDPWS-2008. BUILDING HAVE DESIGNED TO HAVE ONLY OPENINGS WITH MAX WIDTHS EQUAL TO THOSE IN THE ENDWALL SHEAR WALL CHART.
- AS PER SECTION 553.73(10)(i), VIRGINIA STATUTES, STORAGE SHEDS THAT ARE NOT DESIGNED FOR HUMAN HABITATION AND THAT HAVE A FLOOR AREA OF 720 SQUARE FEET OR LESS ARE NOT REQUIRED TO COMPLY WITH THE MANDATORY WIND-BORNE-DEBRIS-IMPACT STANDARDS OF THE VIRGINIA BUILDING CODE. IN ADDITION, SUCH BUILDINGS THAT ARE 400 SQUARE FEET OR LESS AND THAT ARE INTENDED FOR USE IN CONJUNCTION WITH ONE-AND-TWO FAMILY RESIDENCES ARE NOT SUBJECT TO THE DOOR HEIGHT AND WIDTH REQUIREMENTS OF THE VIRGINIA BUILDING CODE. SEE VABC 1008.1.1 EXCEPTION (8).
- OPTIONAL ANCHORING: IF ANCHORS USED THEY ARE TO BE DIRECTLY ATTACHED TO ALL FOUR CORNERS & PER ANCHOR PLAN.
- UNLESS NOTED OTHERWISE, ATTACH ALL MANUFACTURED PRODUCTS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

NOTE:

THIS BUILDING IS NOT DESIGNED FOR HUMAN HABITATION AND DOES NOT HAVE RUNNING WATER OR SANITATION SERVICES. THIS BUILDING IS DESIGNED AS A UTILITY SHED TO STORE LAWN EQUIPMENT SUCH AS WHEEL BARROWS GARDENING SUPPLIES, FLOWER POTS, AND CARDBOARD BOXES WITH VARIOUS SMALL ITEMS.

SITE INSTALLED ITEMS:

NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIALS THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTIONAL APPROVAL.

- THE COMPLETE FOUNDATION SUPPORT AND TIE-DOWN SYSTEM.
- RAMPS, STAIRS, AND GENERAL ACCESS TO THE BUILDING IF NECESSARY.
- GUTTERS AND DOWNSPOUTS ON ALL BUILDINGS WITH EAVES OF LESS THAN 6 INCHES HORIZONTAL PROJECTION EXCEPT FOR GABLE END RAKES.

SHED MANUFACTURER SHALL HAVE A LIST OF ALL REQUIRED PRODUCTS THAT NEED VIRGINIA STATE APPROVAL AVAILABLE FOR 3RD PARTY INSPECTOR AND REVIEW BY E.O.R. FOR COMPLIANCE WITH WIND LOADS

DESIGN CRITERIA:	
1. WIND VELOCITY	160 MPH.
2. BUILDING CATEGORY	I
3. WIND EXPOSURE	C
4. INT. PRESSURE COEFFICIENT	±0.18
5. ENCLOSURE CLASSIFICATION	ENCLOSED
6. BASED ON HEIGHT	15 FEET
7. OVERHANG	NO
8. FLOOR DESIGN LIVE LOAD	50 PSF
FLOOR DESIGN DEAD LOAD	4 PSF
9. ROOF DESIGN LIVE LOAD	20 PSF
ROOF DESIGN DEAD LOAD	7 PSF
10. WALL DESIGN DEAD LOAD	3 PSF
11. SNOW LOAD	50 PSF
(FOR 61-90 PSF SNOW, TRUSSES @ 16" SPECIAL ORDER)	
12. CONSTRUCTION TYPE	▮ B
13. BUILDING OCCUPANCY =	U
14. FIRE RATING EXT. WALLS	0
15. ALLOWABLE NUMBER OF FLOORS	1
16. THE CONTRACTOR / MANUFACTURER MUST COMPLY WITH THE FOLLOWING CODES AND ALL OF THEIR AMENDMENTS / SUPPLEMENTS.	

VIRGINIA CODE SUMMARY

LATEST BUILDING CODE
2014 NEC

SHEET LIST	
SHEET NUMBER	SHEET TITLE
C-1	COVER SHEET
C-2	FASTENING SCHEDULE / WIND LOADING / SHEARWALL CHART
A-1	FRAMING PLANS & DETAILS
A-2	FRAMING PLANS & DETAILS
A-3	SECTIONS
A-4	PLANS & DETAILS
A-5	TYPICAL DETAILS
A-6	TYPICAL DETAILS
A-7	OPTIONAL PORCH DETAILS
A-8	ANCHORING DETAILS & SCHEDULES
A-9	ANCHORING SPEC SHEETS

AREA FOR APPROVAL STAMPS

PROJECT:

UTILITY SHED

COVER SHEET & GENERAL NOTES

DONALD VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER



ENGINEERING SERVICES PROVIDED FOR:
PREMIER PORTABLE BUILDINGS
 317 EAST STATE LINE ROAD
 SOUTH FULTON, TN 38257
 WWW.PREMIERBUILDINGS.US

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DATE: 9.22.19

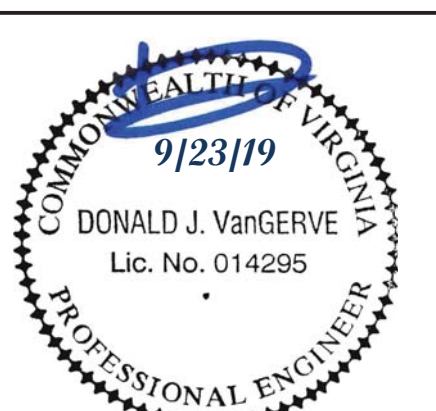
PROJECT NO.: 19227

DRAWING BY: JH

CHK BY: DVG

DWG NO.:

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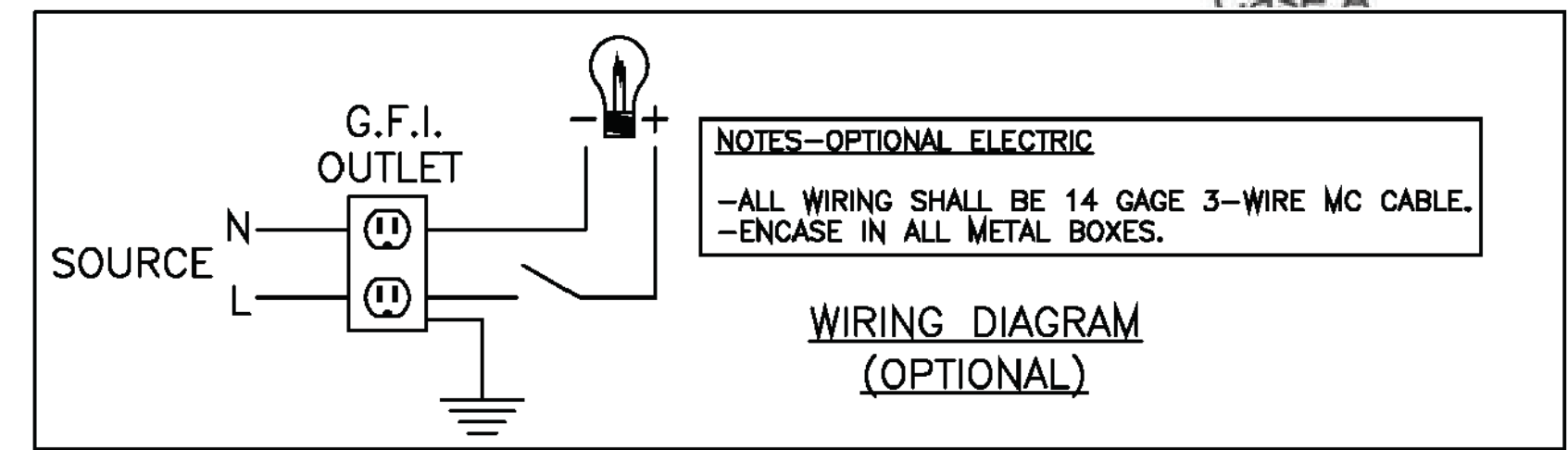
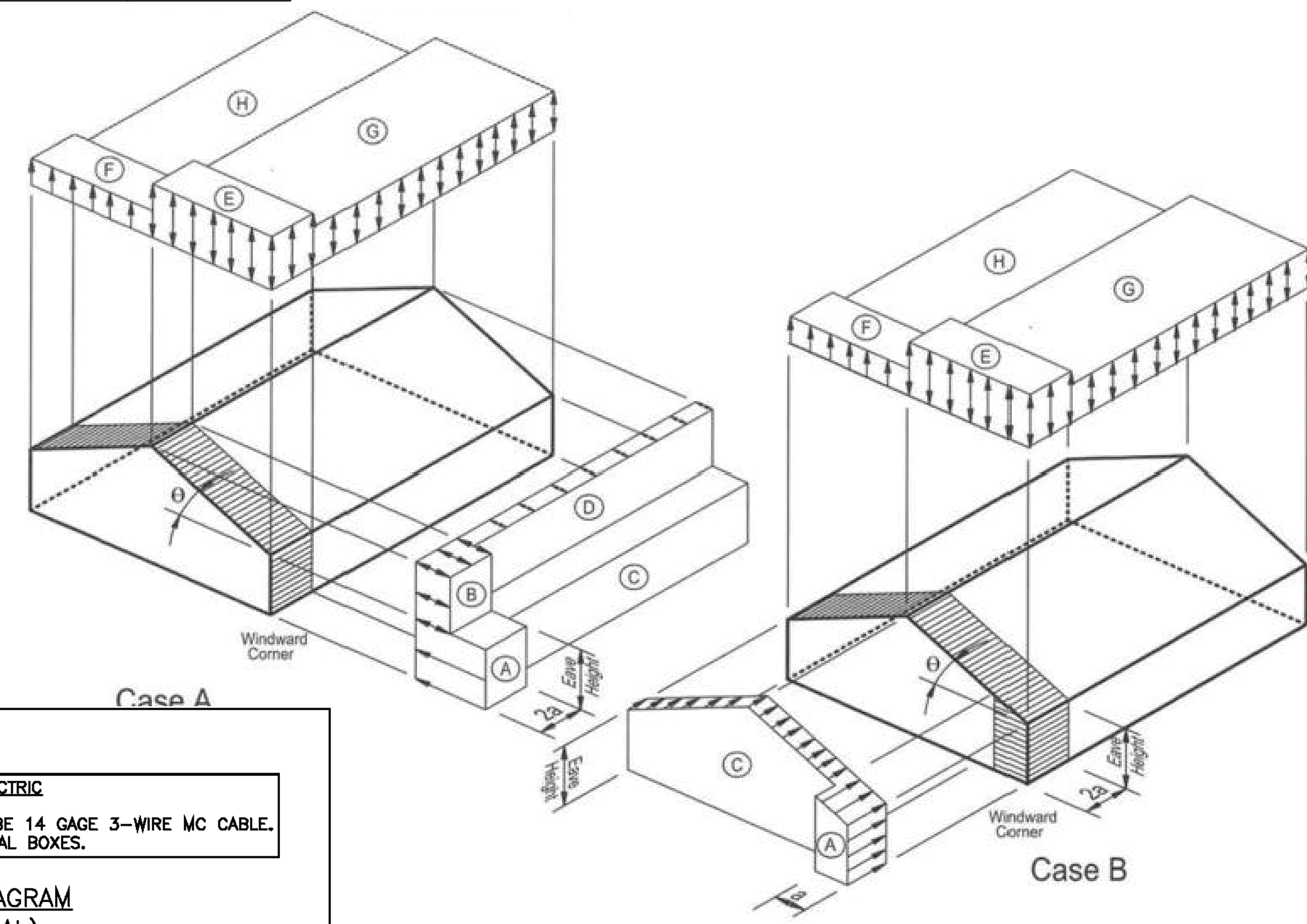
FASTENING SCHEDULE (2304.9.1 MBC)

CONNECTION	FASTENING	LOCATION
1. JOIST TO SILL OR GIRDER	3 - 8d COMMON (2½"x0.131") 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOE-NAIL
2. BRIDGING TO JOIST	2 - 8d COMMON (2½"x0.131") 2 - 3"x0.131" NAILS 2 - 3" 14 GAGE STAPLES	TOE-NAIL EACH END
3. SOLE PLATE TO JOIST OR BLOCKING	16d (3½"x0.135") @ 16" o/c 3"x0.131" NAILS @ 8" o/c 3" 14 GAGE STAPLES @ 12" o/c	TYPICAL FACE NAIL
4. SOLE PLATE TO JOIST OR BLOCKING @ BRACED WALL PANEL	3 - 16d (3½"x0.135") @ 16" o/c 4 - 3"x0.131" NAILS @ 16" o/c 4 - 3" 14 GAGE STAPLES @ 16" o/c	BRACED WALL PANELS
5. TOP PLATE TO STUD	2 - 16d (3½"x0.162") 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	END NAIL
6. STUD TO SOLE PLATE	4 - 8d COMMON (2½"x0.131") 4 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOE-NAIL
	2 - 16d COMMON (3½"x0.162") 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	END NAIL
7. DOUBLE STUDS	16d (3½"x0.135") @ 24" o/c 3"x0.131" NAILS @ 8" o/c 3" 14 GAGE STAPLES @ 8" o/c	FACE NAIL
8. DOUBLE TOP PLATES	16d (3½"x0.135") @ 16" o/c 3"x0.131" NAILS @ 12" o/c 3" 14 GAGE STAPLES @ 12" o/c	TYPICAL FACE NAIL
	8 - 16d COMMON (3½"x0.162") 12 - 3"x0.131" NAILS 12 - 3" 14 GAGE STAPLES	LAP SPLICE
9. BLOCKING BETWEEN JOISTS OR TRUSSES TO TOP PLATE	3 - 8d COMMON (2½"x0.131") 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOE-NAIL
10. TOP PLATES, LAPS AND INTERSECTIONS	2 - 16d (3½"x0.162") 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	FACE NAIL
11. CONTINUOUS HEADER (2) PIECES	8 - 16d COMMON (3½"x0.162")	16" o/c ALONG EDGE
12. CONTINUOUS HEADER TO STUD	4 - 8d COMMON (2½"x0.131")	TOE-NAIL
13. BUILT-UP CORNER STUDS	16d (3½"x0.135") @ 24" o/c 3"x0.131" NAILS @ 16" o/c 3" 14 GAGE STAPLES @ 16" o/c	@ 24" o/c @ 16" o/c @ 16" o/c
14. DOUBLE TOP PLATES	20d (4"x0.192") @ 32" o/c 3"x0.131" NAILS @ 24" o/c 3" 14 GAGE STAPLES @ 24" o/c	FACE NAIL @ TOP & BOTTOM STAGGERED ON OPP. SIDES
	2 - 20d COMMON (4"x0.192") 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	FACE NAIL @ ENDS AND AT EACH SPLICE
15. JOIST TO BAND JOIST	3 - 16d COMMON (3½"x0.162") 4 - 3"x0.131" NAILS 4 - 3" 14 GAGE STAPLES	FACE NAIL
16. WOOD STRUCTURAL PANELS AND PARTICLE BOARD SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	½" AND LESS 6d ^J 2½"x0.113" NAIL ^L 1¾" 16 GAGE ^M 8d ^I OR 2½"x0.113" NAIL ^N 2" 16 GAGE ^N 8d ^I	
	¾" TO 1" 1½" TO 1¾"	10d ^I OR 8d ^I
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	¾" AND LESS 6d ^I ¾" TO 1" 8d ^I 1½" TO 1¾" 10d ^I OR 8d ^I	
17. 29ga. STEEL SIDING (TO FRAMING)	½" OR LESS ¾"	NAILS @ 6" o/c IN FIELD AND 3" o/c ALONG ALL PANEL EDGES.
18. FIBERBOARD SHEATHING ⁹	½"	NO. 11 GAGE ROOFING NAIL ^H 6d COMMON NAIL (2"x0.113") NO 16 GAGE STAPLE ^K
	25/32"	NO. 11 GAGE ROOFING NAIL ^H 8d COMMON NAIL (2½"x0.131") NO 16 GAGE STAPLE ^K

SHEARWALL CHART

BUILDING WIDTH	OPENING WIDTHS IN ENDWALL	MAX. LENGTH OF BUILDING		
		19/32" T1-11 ¹	¾" LP SMARTSIDE PANEL ²	ALUMINUM OVER 7/16" OSB ⁴
8'-0"	3'-0" MAX.	24'-0"	20'-0"	24'-0"
10'-0"	3'-0" MAX.	30'-0"	30'-0"	30'-0"
	6'-0"		16'-0"	
11'-2"	3'-0" MAX.	36'-0"	36'-0"	36'-0"
	6'-0"		24'-0"	
	9'-0"		12'-0"	
14'-0"	3'-0" MAX.	40'-0"	40'-0"	40'-0"
	6'-0"		34'-0"	
16'-0"	3'-0" MAX.	40'-0"	40'-0"	40'-0"
	6'-0" MAX.		30'-0"	

1. 19/32" T1-11 SHALL BE FASTENED USING 8d COMMON OR DEFORMED NAILS @ 6" o/c IN FIELD AND 3" o/c ALONG ALL PANEL EDGES.
2. ¾" LP SMARTSIDE PANEL SHALL BE FASTENED USING 8d COMMON OR DEFORMED NAILS @ 6" o/c IN FIELD AND 3" o/c ALONG ALL PANEL EDGES.
3. LIMITATIONS ON THE TOTAL OPENING DIMENSIONS SHALL BE BASED ON THE SHEAR WALL HEIGHT TO WIDTH RATION OF 3.5:1 AND SHALL NOT EXCEED (2/3) OF TOTAL LENGTH OF BUILDING. NAILING IN SIDEWALL USE 8d NAILS COMMON OR DEFORMED AT 6" EVERYWHERE WHEN TOTAL OPENING WIDTHS IN SIDE WALL ARE LESS THAN (2/3) OF TOTAL LENGTH OF BUILDING.
4. 29ga. STEEL SIDING OVER 7/16" OSB FASTENED USING 8d COMMON OR DEFORMED NAILS @ 6" o/c IN FIELD AND 3" o/c ALONG ALL PANEL EDGES.



- COMMON OR BOX NAIL ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.
- NAILS SPACED @ 6" o/c AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLE BOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305 MBC. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
- COMMON OR DEFORMED SHANK (6d - 2"x0.113"; 8d-2½"x0.131"; 10d 3"x0.148").
- COMMON (6d - 2"x0.113"; 8d-2½"x0.131"; 10d 3"x0.148").
- DEFORMED SHANK (6d-2"x0.113"; 8d 2½"x0.131" 10d 3"x0.148").
- CORROSION-RESISTANT SIDING (60-1½"x0.106"; 8d 2½"x0.128") OR CASING (60d"x0.099"; 8d 2 ½"x0.113") NAIL.
- FASTENERS SPACED 3" o/c AT EXTERIOR EDGES AND 6" o/c AT INTERMEDIATE SUPPORTS WHEN USED AS STRUCTURAL SHEATHING.
- CORROSION-RESISTANT ROOFING NAILS w/ 7/16" DIAMETER HEAD AND 1 ½" LENGTH FOR ½" SHEATHING AND 1 ¾" LENGTH FOR 2/3" SHEATHING.
- CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16" CROWN OR 1" CROWN AND 1 ½" LENGTH FOR ½" SHEATHING AND 1 ¾" LENGTH FOR 2/3" SHEATHING. PANEL SUPPORTS @ 16" o/c(20" IF STRENGTH AXIS IS THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED.)
- FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2½"x0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 3/16".
- FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4" o/c AT EDGES, 8" o/c AT INTERMEDIATE SUPPORTS.
- FASTENERS SPACED 4" o/c AT EDGES, 8" o/c AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3" o/c AT EDGES, 6" AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.
- FASTENERS SPACED 4" o/c AT EDGES, 8" AT INTERMEDIATE SUPPORTS.

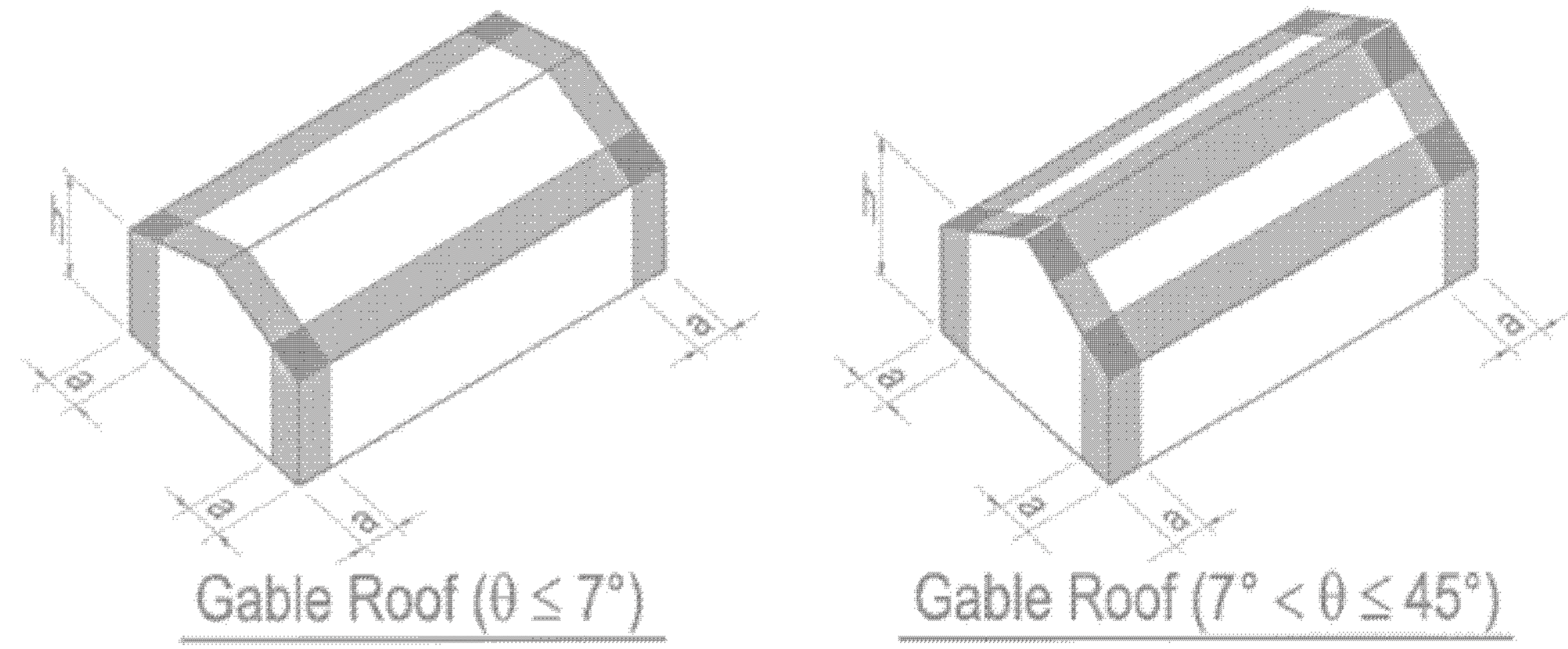


FIGURE 1609.6.2.2 COMPONENT AND CLADDING PRESSURE

AREA FOR APPROVAL STAMPS

PROJECT: UTILITY SHED

FASTENING SCHEDULE / WIND LOADING

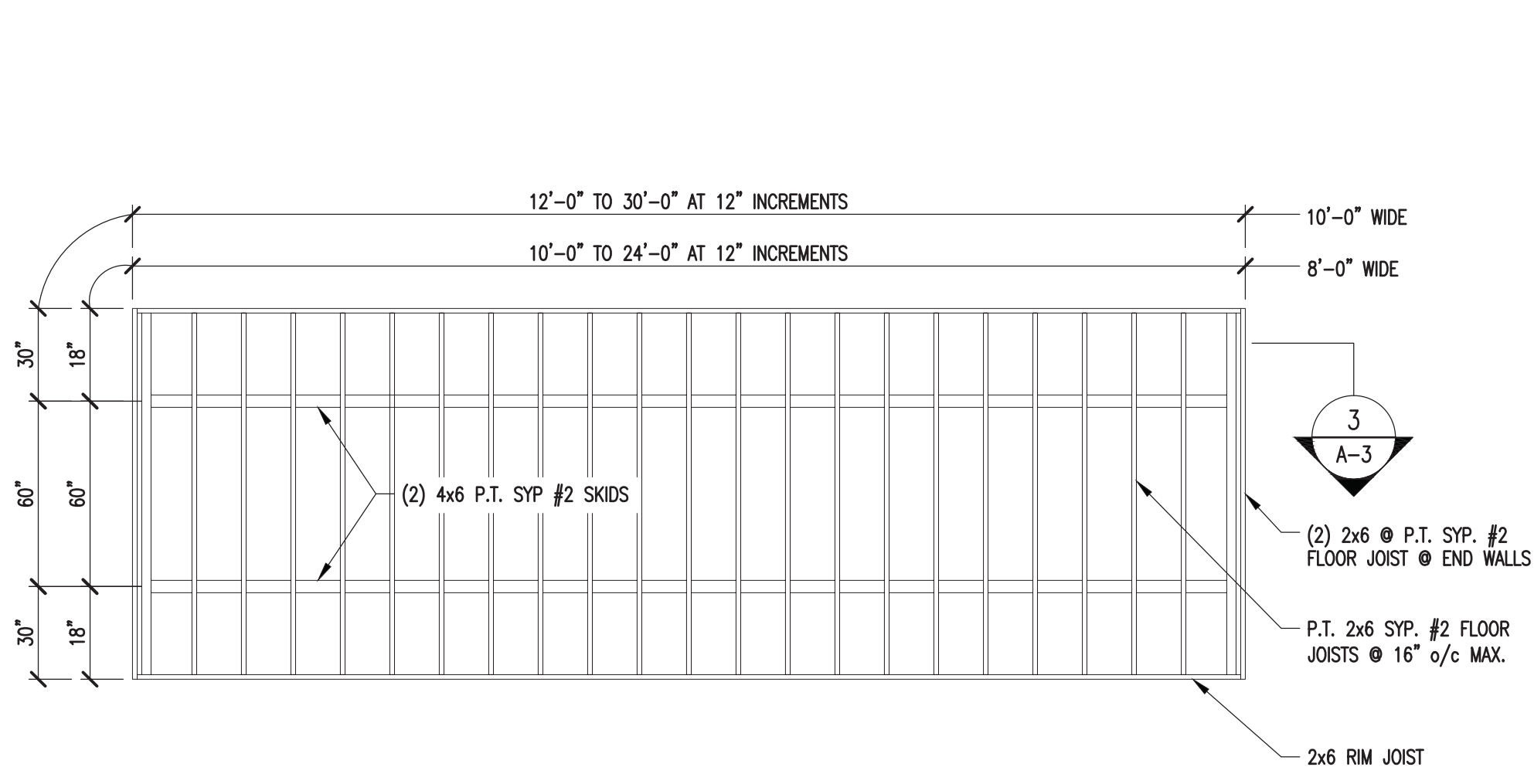
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SPECIALTY STRUCTURAL ENGINEER

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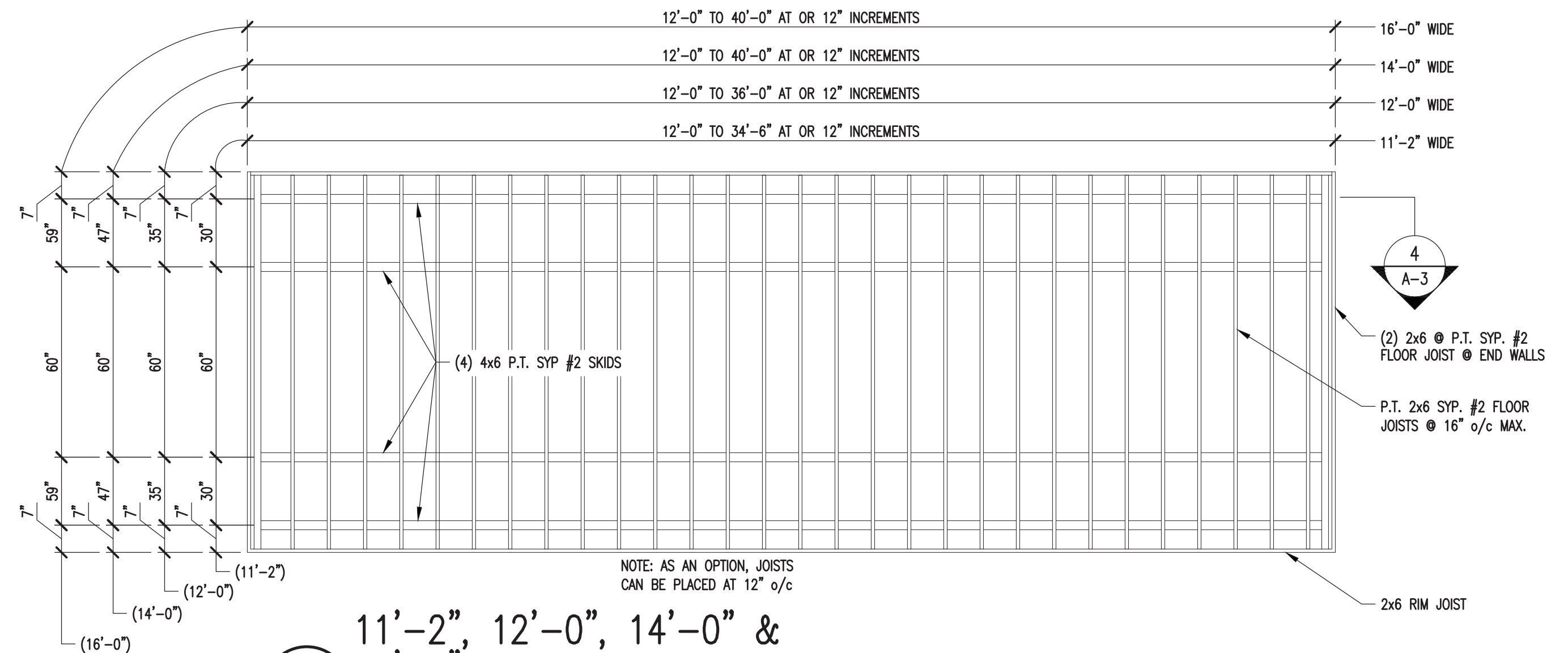
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DRAWING BY: JH
CHK BY: DVG
DWG NO.:

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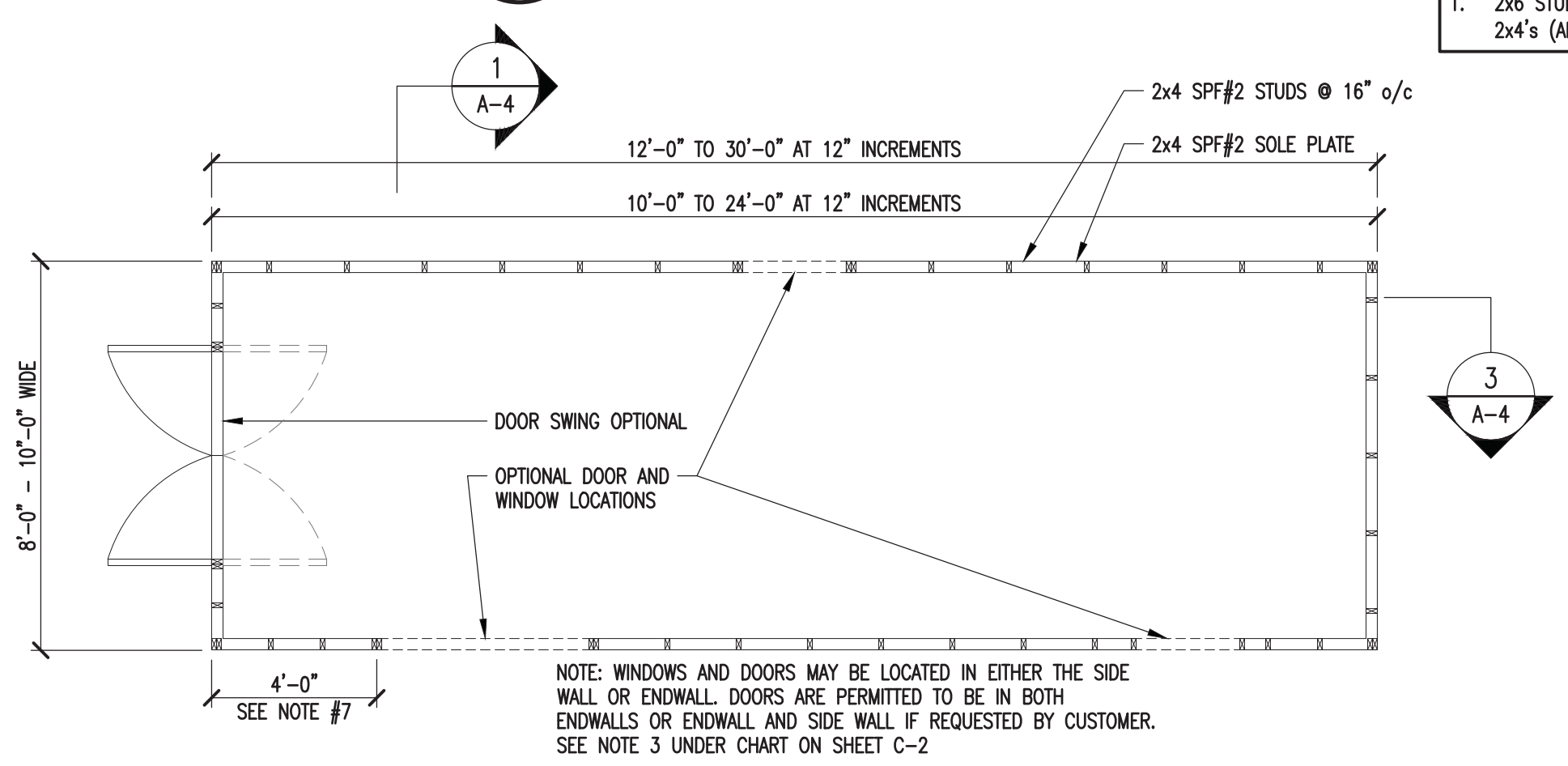


1 8'-0" & 10'-0" WIDE FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0" (DO NOT SCALE DRAWING)

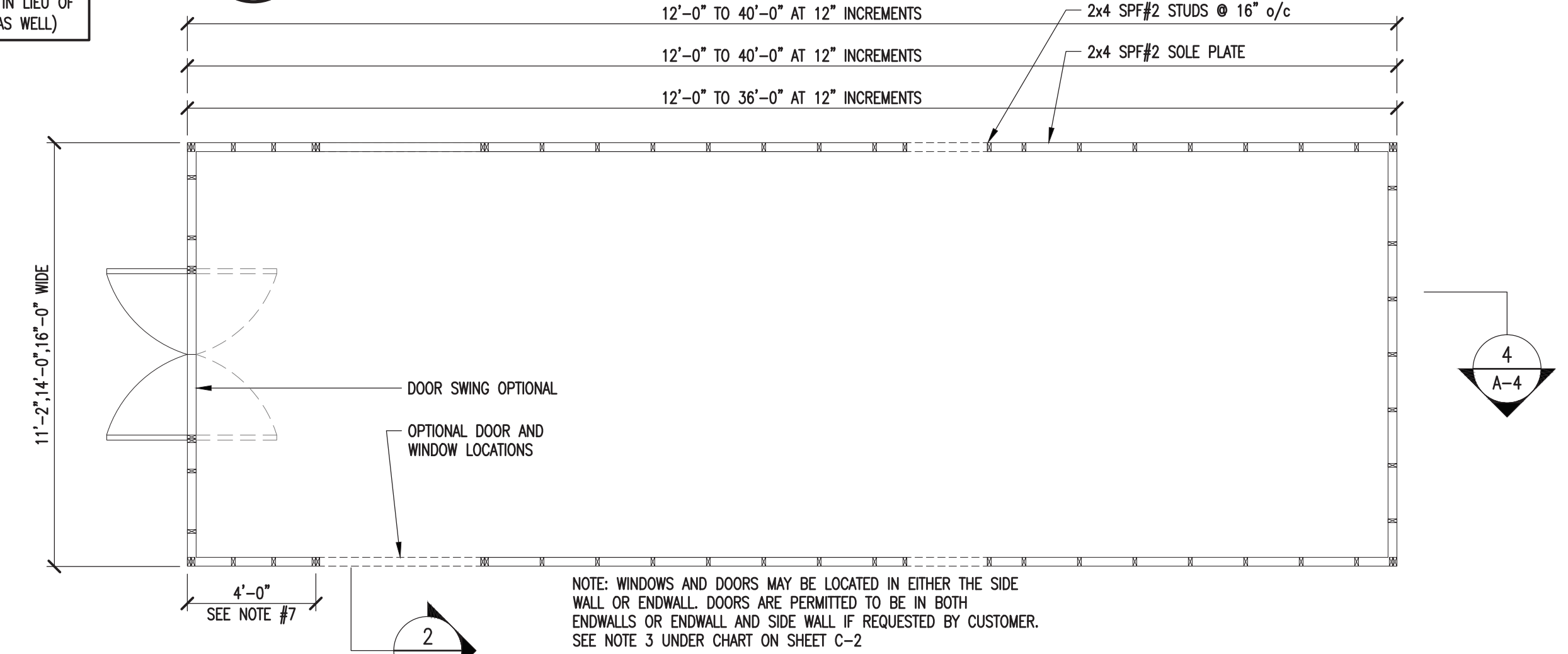


2 11'-2", 12'-0", 14'-0" & 16'-0" WIDE FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0" (DO NOT SCALE DRAWING)

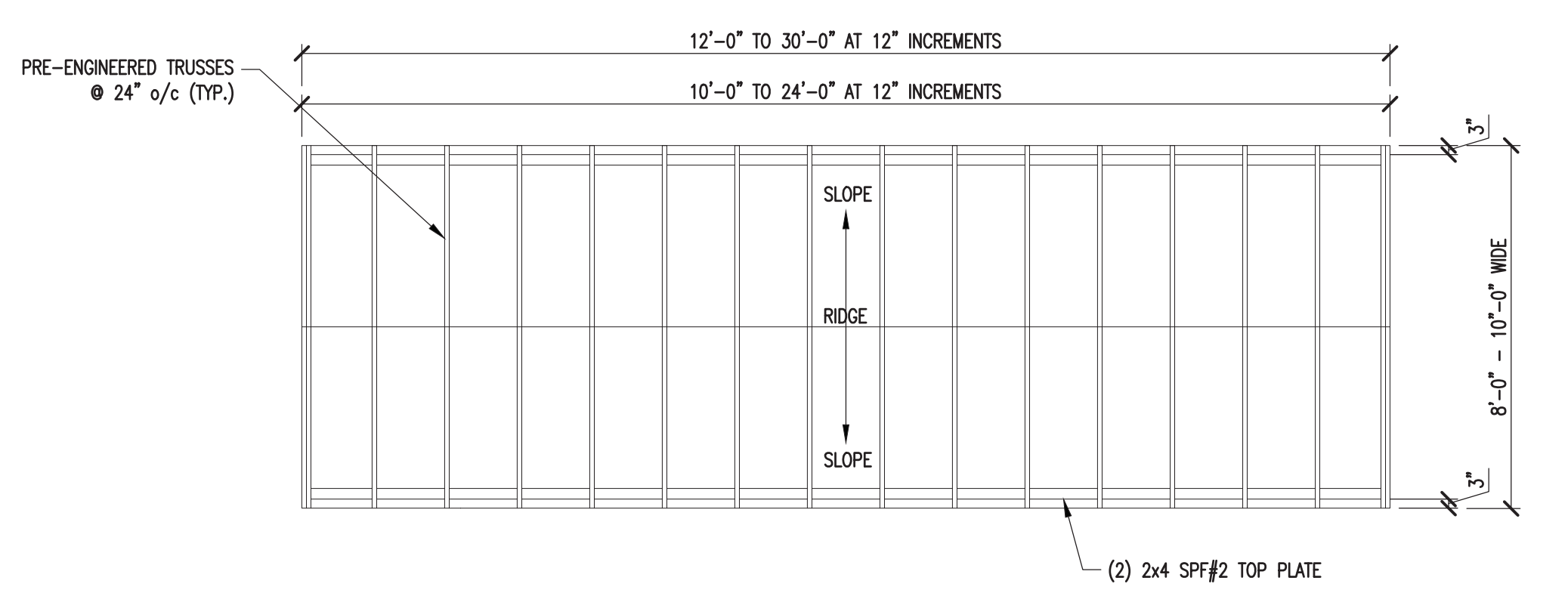
NOTE:
1. 2x6 STUD FRAMING MAY BE USED IN LIEU OF 2x4's (ALSO FOR ROOF TRUSSES AS WELL)



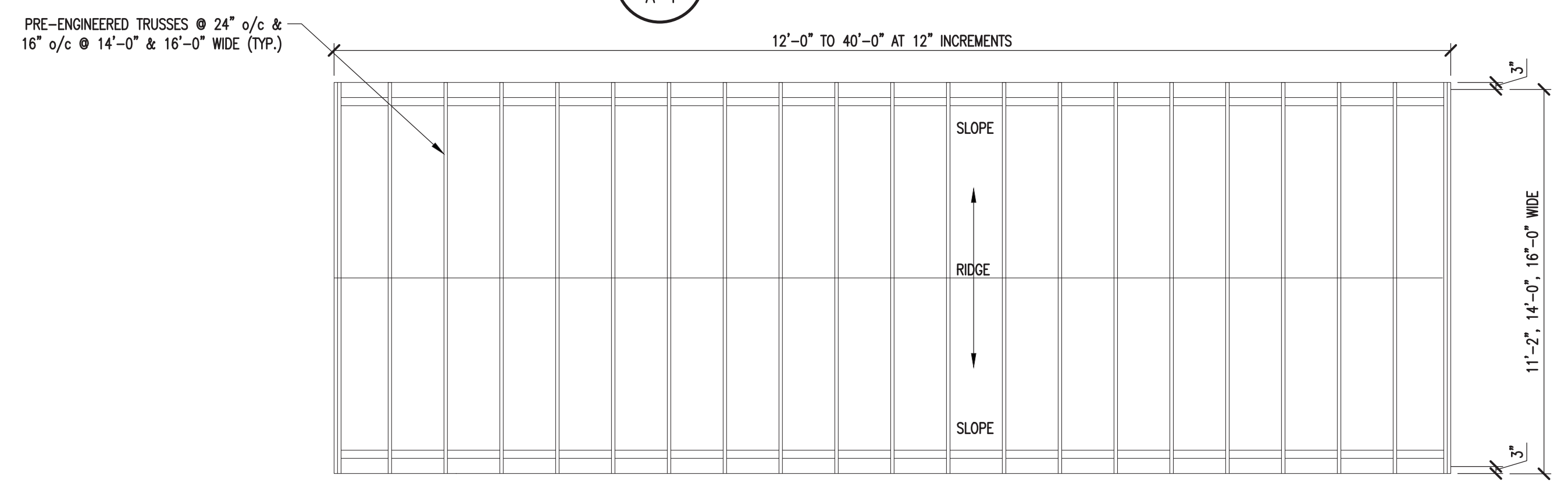
3 FLOOR DECK PLAN
SCALE: 1/4"=1'-0"



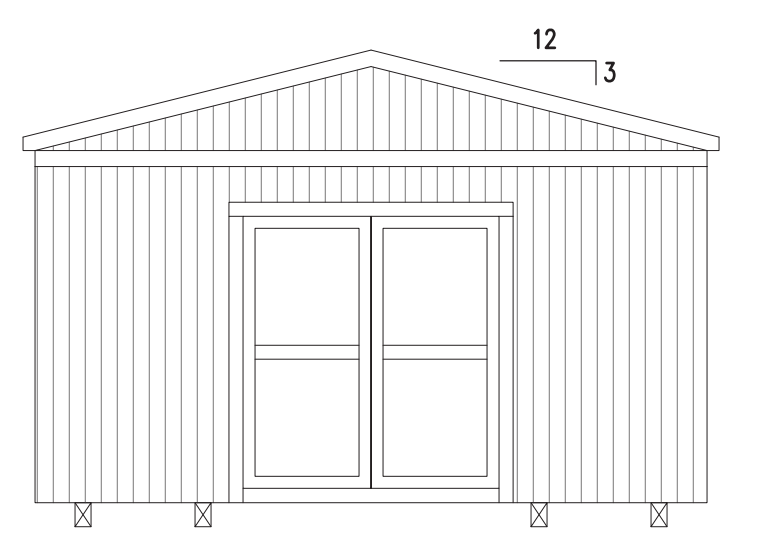
4 FLOOR DECK PLAN
SCALE: 1/4"=1'-0"



5 ROOF PLAN
SCALE: 1/4"=1'-0"

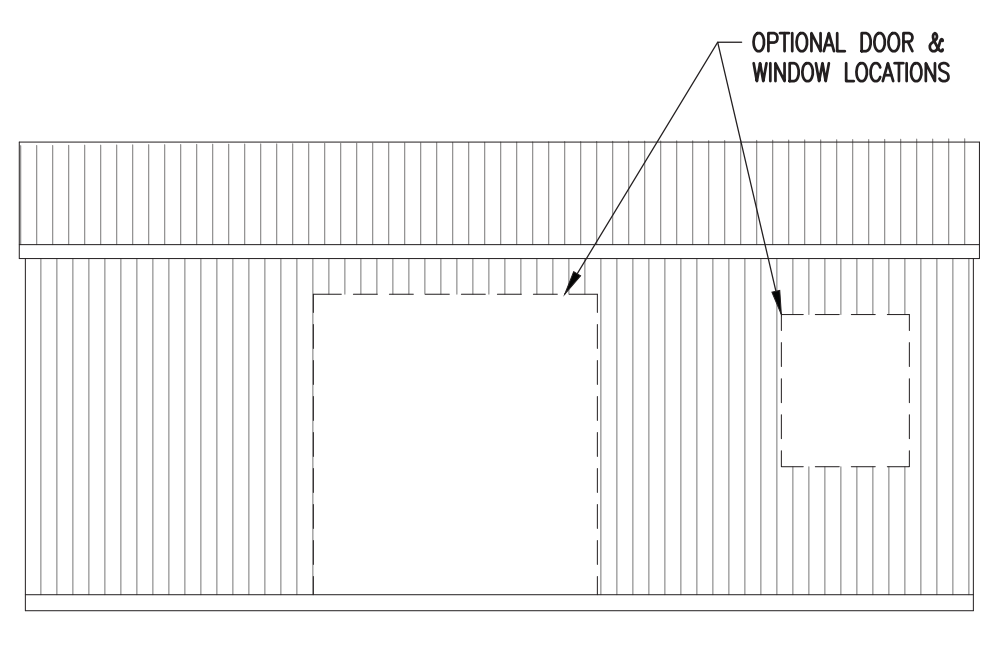


6 ROOF PLAN
SCALE: 1/4"=1'-0"

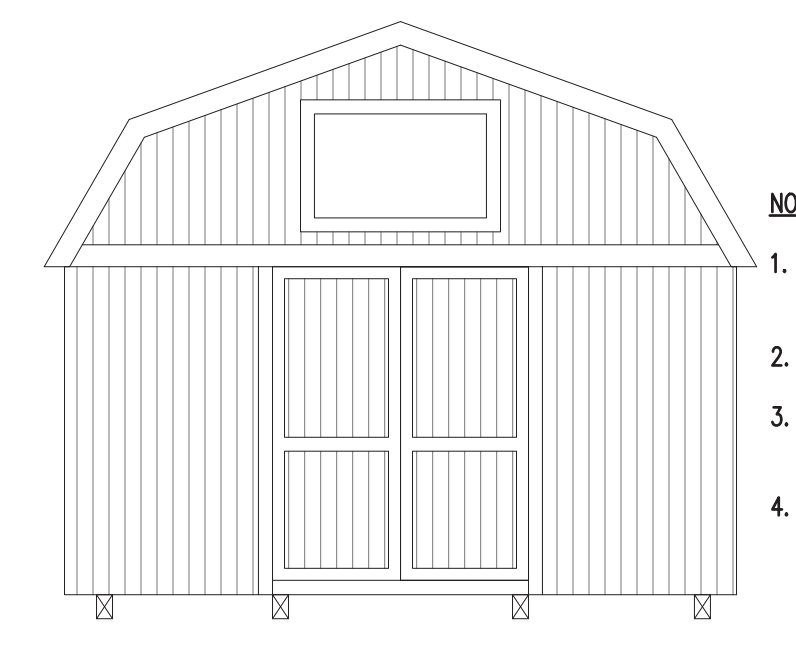


7 GABLE ENDWALL ELEVATION
SCALE: 1/4"=1'-0"

NOTE:
1. DOUBLE WALL STUDS SHALL BE FASTENED AS PER FASTENING SCHEDULE PROVIDED.
2. SEE 12/A-4 FOR CORNER STUD DETAIL.
3. FOR ALL FASTENING NOT SHOWN, SEE FASTENING SCHEDULE ON SHEET C-2.
4. AS AN OPTION, STUDS CAN BE PLACED @ 16" o/c.
5. ALL BUILDING W/ TRUSSES AND STUDS 2'-0" o/c CAN ONLY USE SINGLE TOP PLATE.
6. STUDS SHALL FALL IN LINE W/ TRUSSES.
7. STUDS @ 16" o/c FOR FIRST 4' FOR ALL CORNERS.

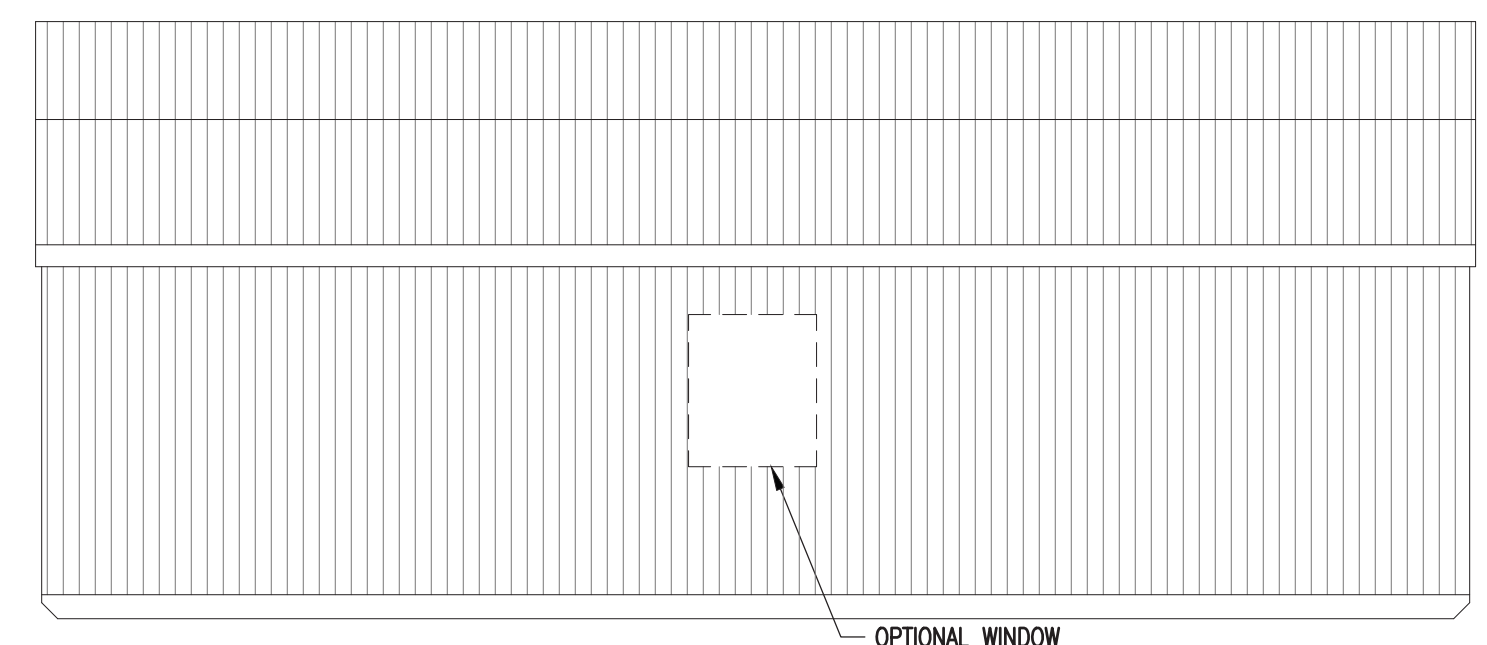


8 SIDEWALL ELEVATION
SCALE: 1/4"=1'-0"



9 GAMBREL ENDWALL ELEVATION
SCALE: 1/4"=1'-0"

NOTE:
1. DOUBLE WALL STUDS SHALL BE FASTENED AS PER FASTENING SCHEDULE PROVIDED.
2. SEE 12/A-4 FOR CORNER STUD DETAIL.
3. FOR ALL FASTENING NOT SHOWN, SEE FASTENING SCHEDULE ON SHEET C-2.
4. AS AN OPTION, STUDS CAN BE PLACED @ 16" o/c.



10 SIDEWALL ELEVATION
SCALE: 1/4"=1'-0"

PROJECT: UTILITY SHED

GABLE & GAMBREL SHEDS
FLOOR DECK FRAMING PLANS & DETAILS

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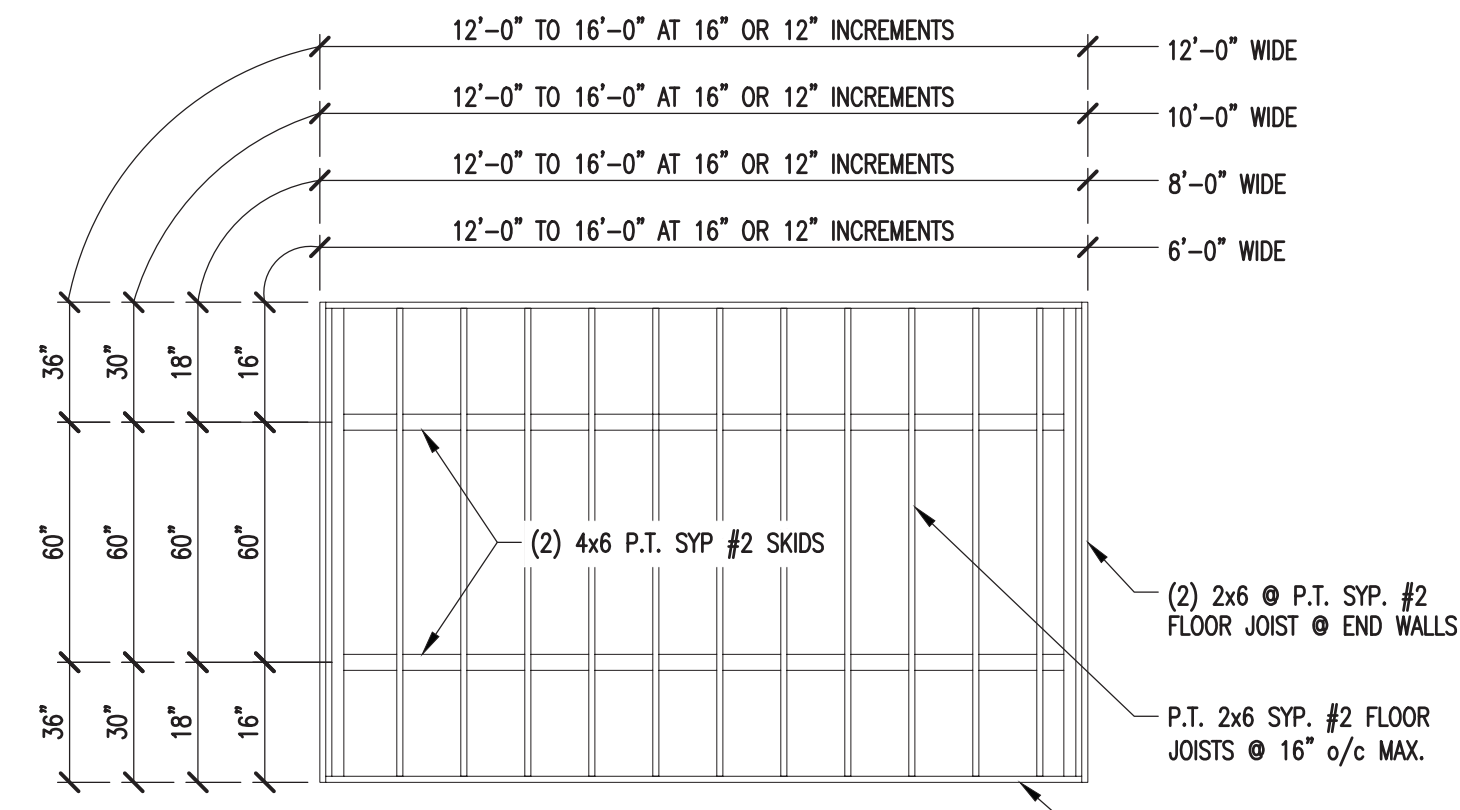


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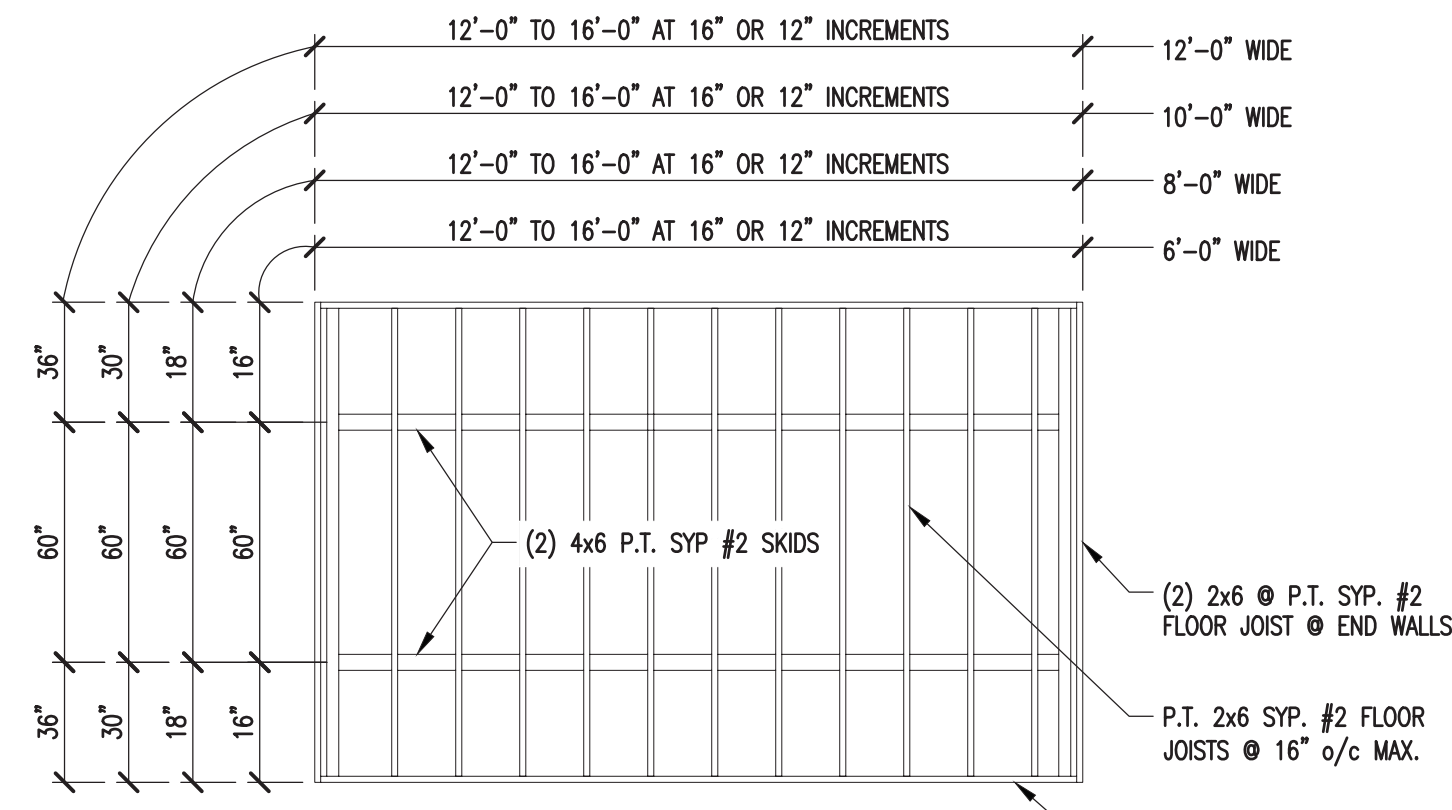
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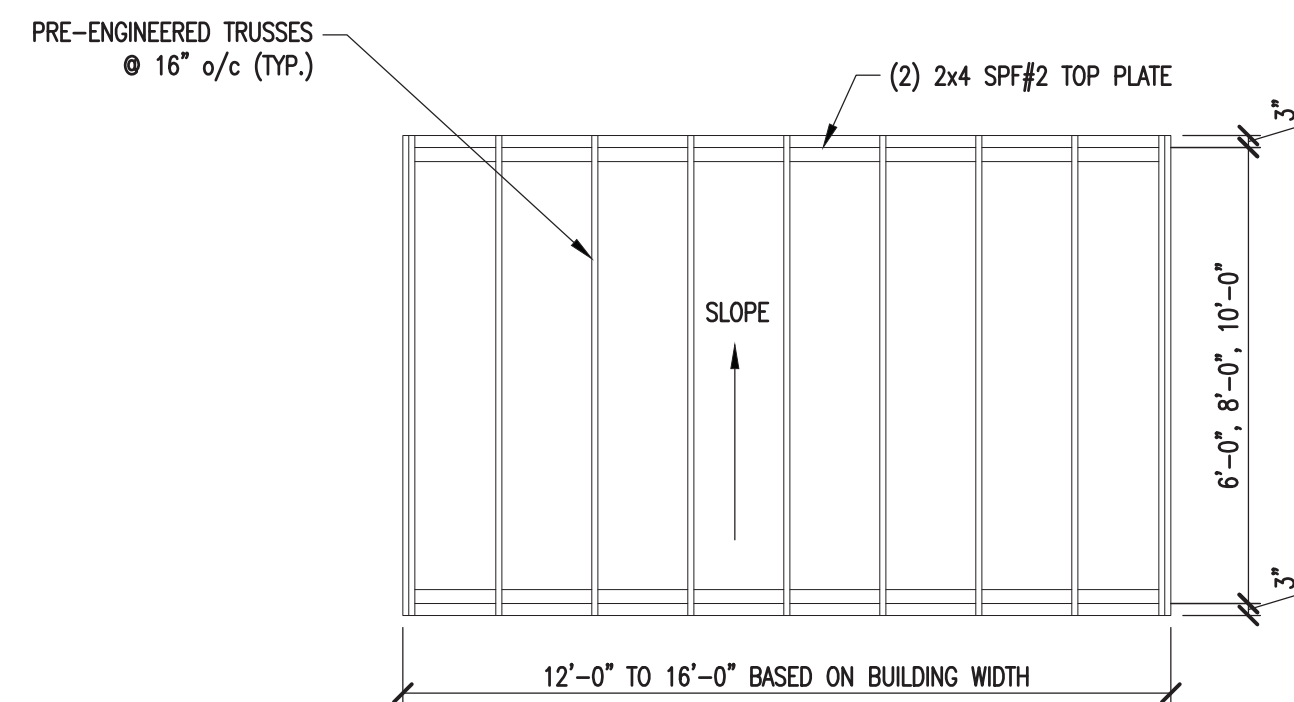




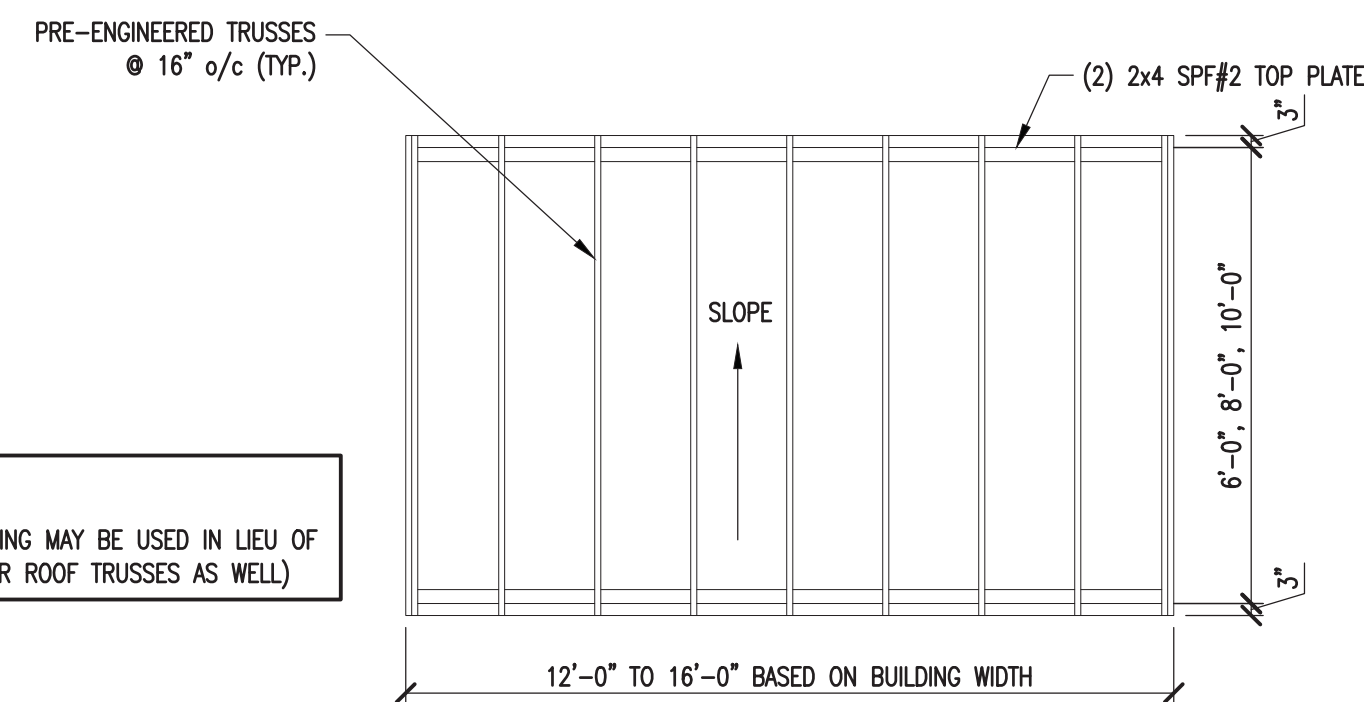
1 GARDEN SHED FLOOR FRAMING PLAN
 A-2 SCALE: 1/4"=1'-0" (DO NOT SCALE DRAWING)



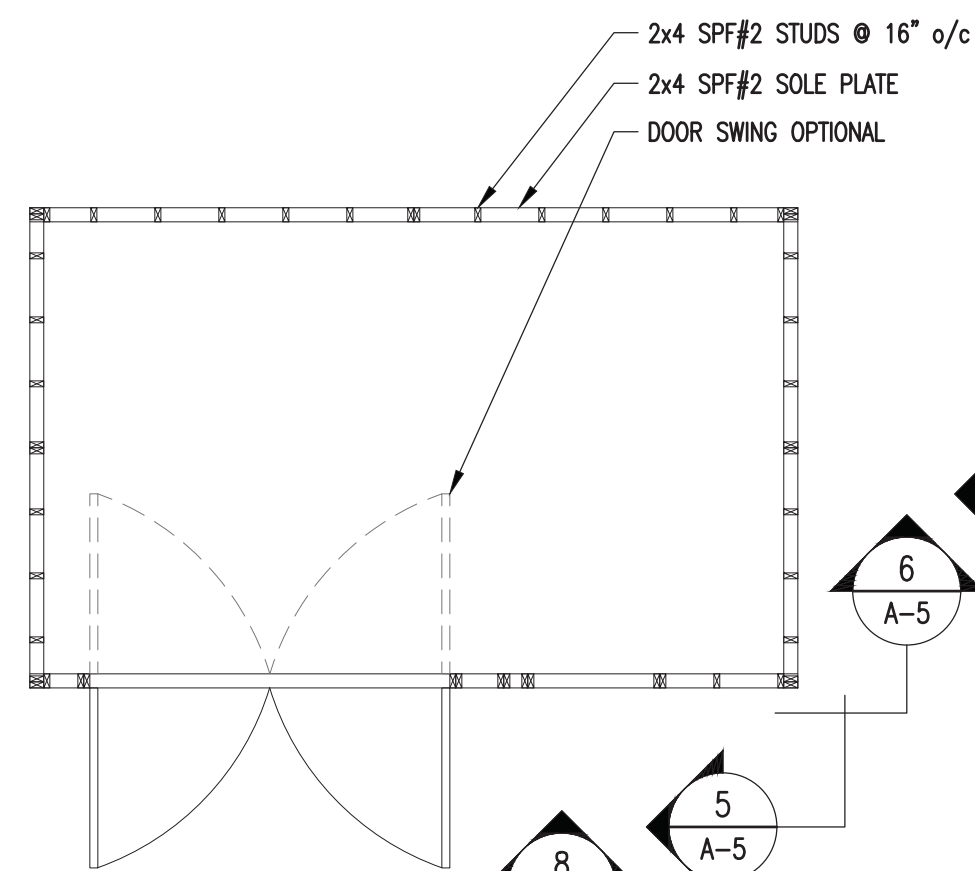
2 COTTAGE SHED FLOOR FRAMING PLAN
 A-2 SCALE: 1/4"=1'-0" (DO NOT SCALE DRAWING)



3 ROOF FRAMING PLAN
 A-2 SCALE: 1/4"=1'-0"

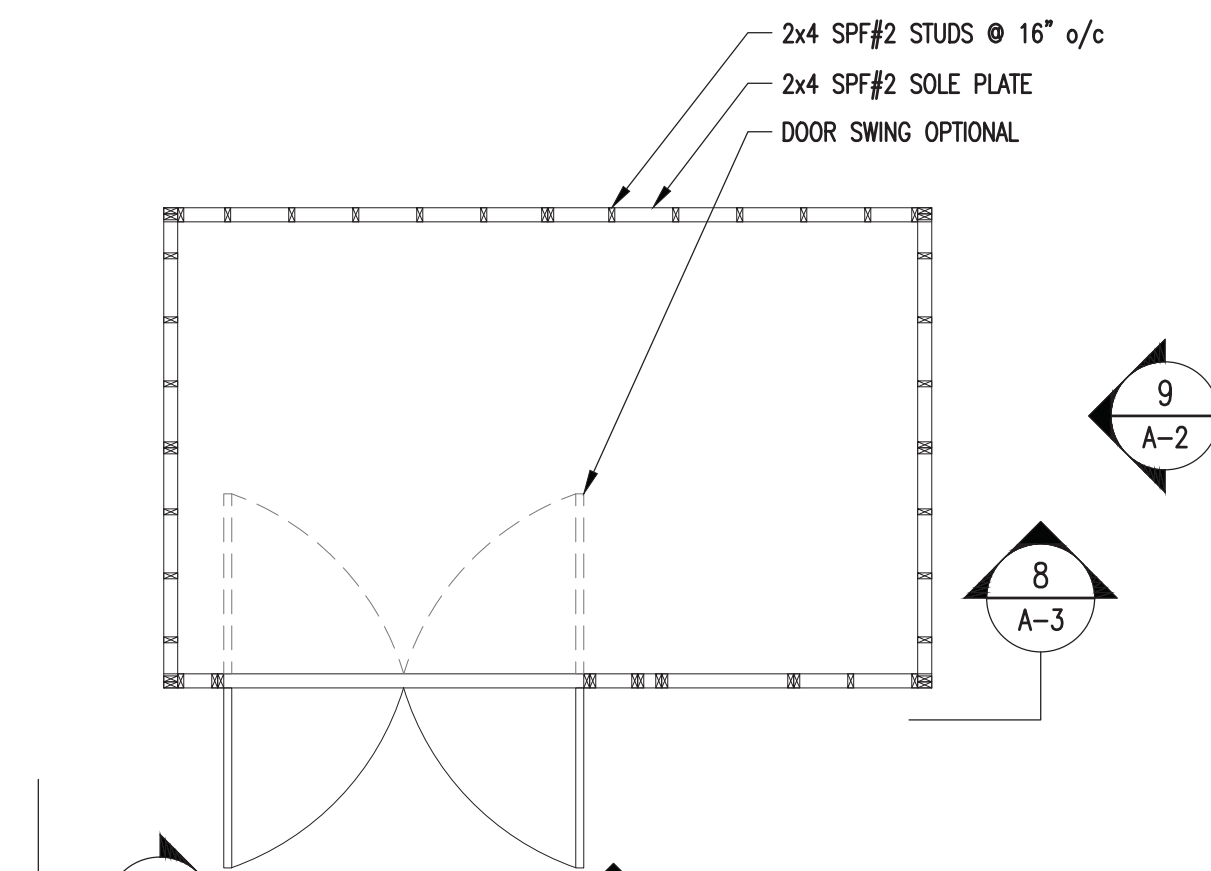


4 ROOF FRAMING PLAN
 A-2 SCALE: 1/4"=1'-0"

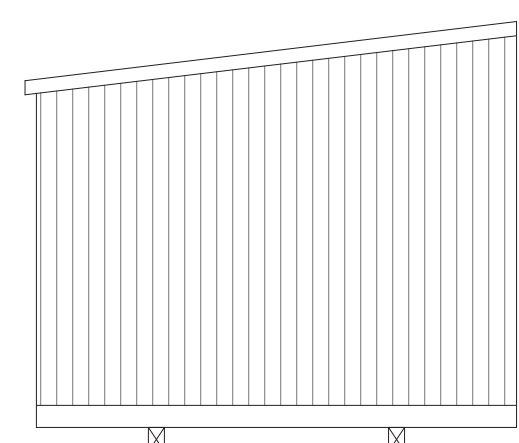


5 FLOOR DECK PLAN
 A-2 SCALE: 1/4"=1'-0"

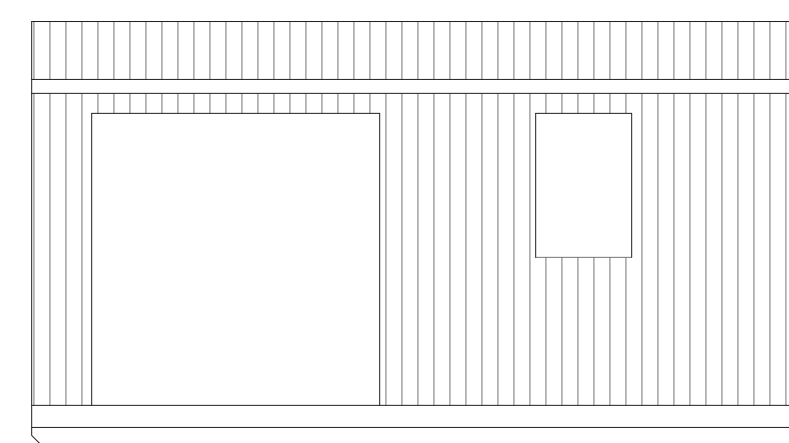
- NOTE:
- DOUBLE WALL STUDS SHALL BE FASTENED AS PER FASTENING SCHEDULE PROVIDED.
 - SEE 12/A-5 FOR CORNER STUD DETAIL.
 - FOR ALL FASTENING NOT SHOWN, SEE FASTENING SCHEDULE ON SHEET C-2.
 - AS AN OPTION, STUDS CAN BE PLACED @ 16" o/c.
 - ALL BUILDING W/ TRUSSES AND STUDS 2'-0" o/c CAN ONLY USE SINGLE TOP PLATE.
 - STUDS SHALL FALL IN LINE W/ TRUSSES.



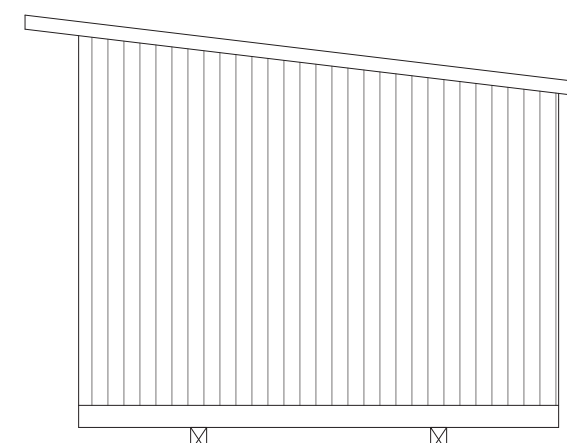
6 FLOOR DECK PLAN
 A-2 SCALE: 1/4"=1'-0"



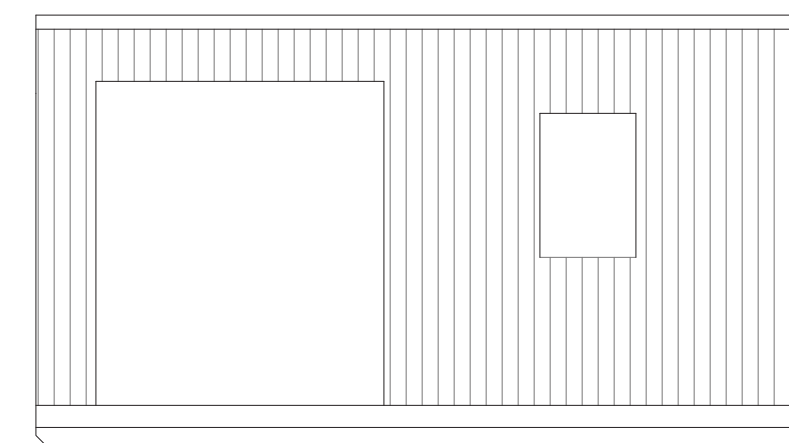
7 ENDWALL ELEVATION
 A-2 SCALE: 1/4"=1'-0"



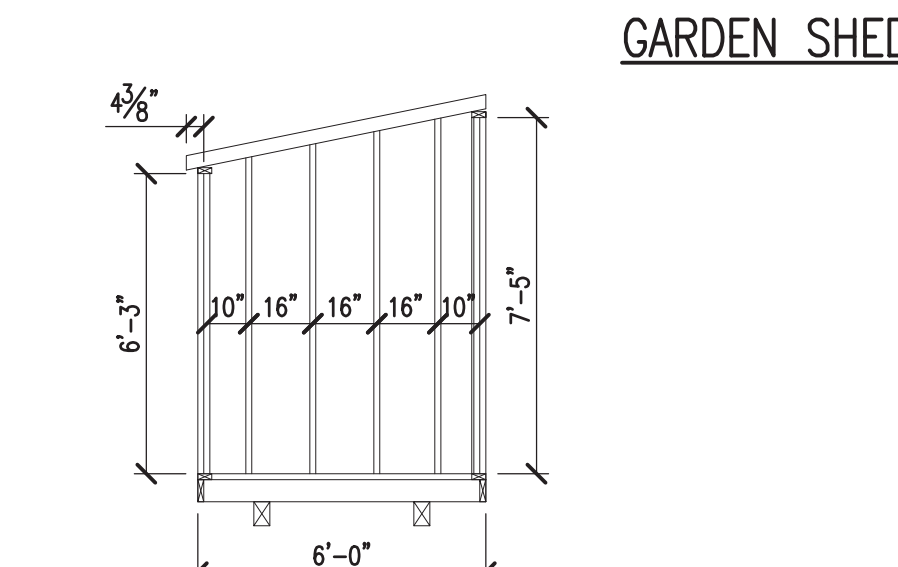
8 SIDEWALL ELEVATION
 A-2 SCALE: 1/4"=1'-0"



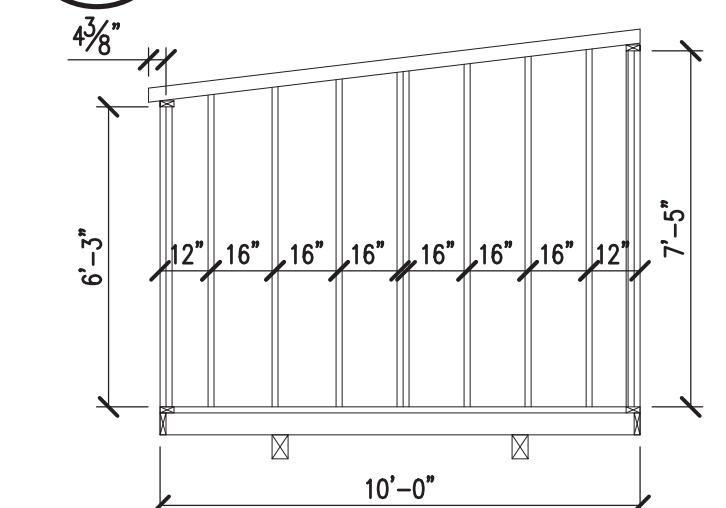
9 ENDWALL ELEVATION
 A-2 SCALE: 1/4"=1'-0"



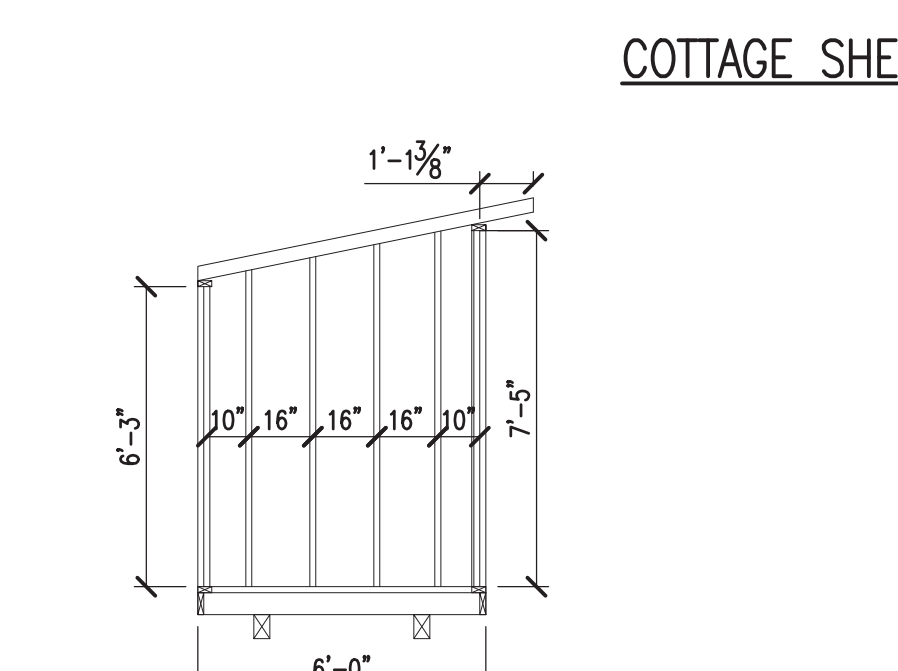
10 SIDEWALL ELEVATION
 A-2 SCALE: 1/4"=1'-0"



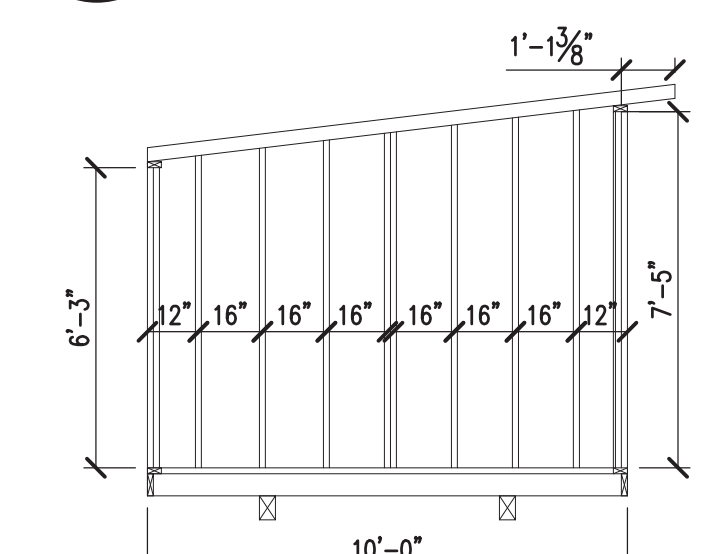
11 6'-0" WIDE ENDWALL ELEVATION
 A-2 SCALE: 1/4"=1'-0"



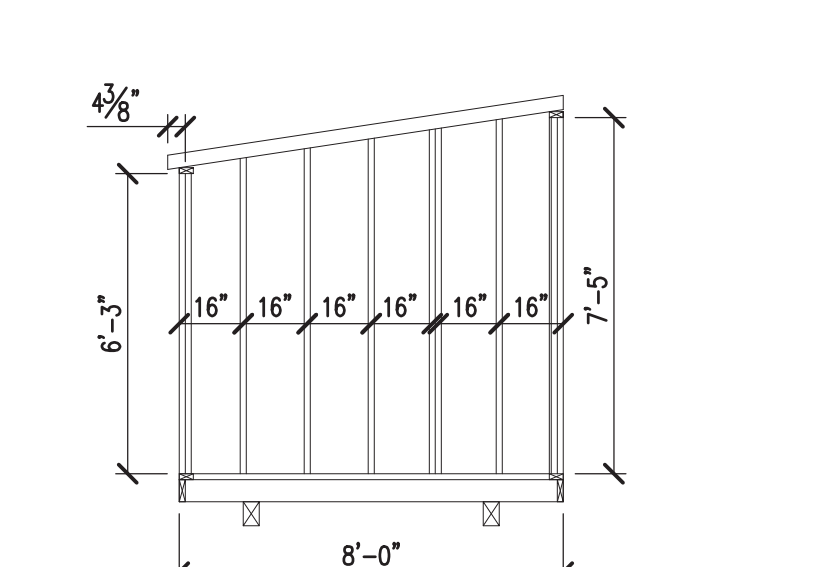
13 10'-0" WIDE ENDWALL ELEVATION
 A-2 SCALE: 1/4"=1'-0"



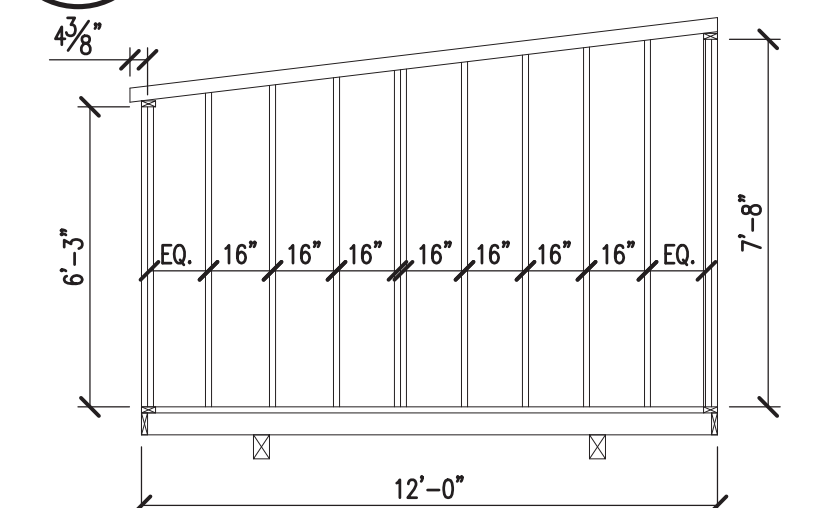
15 6'-0" WIDE ENDWALL ELEVATION
 A-2 SCALE: 1/4"=1'-0"



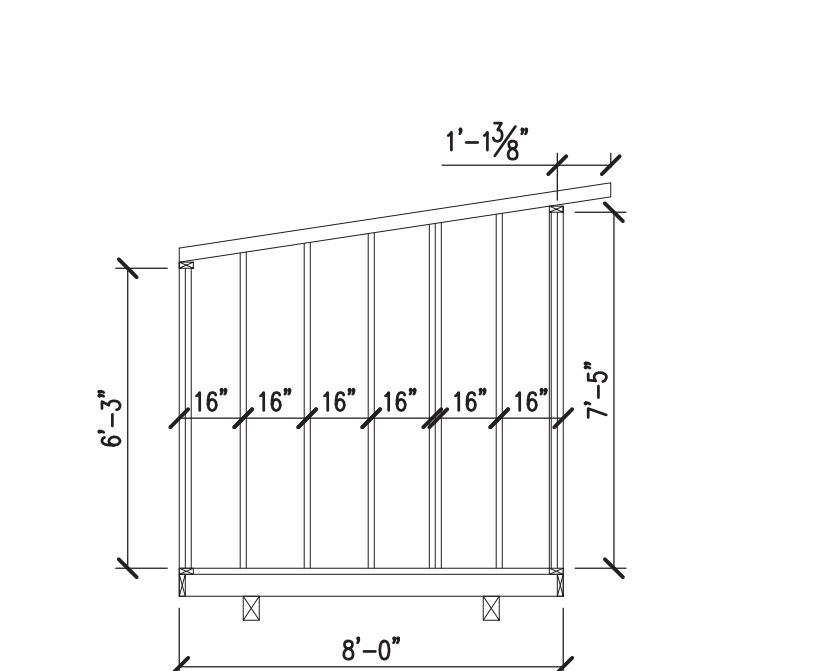
17 10'-0" WIDE ENDWALL ELEVATION
 A-2 SCALE: 1/4"=1'-0"



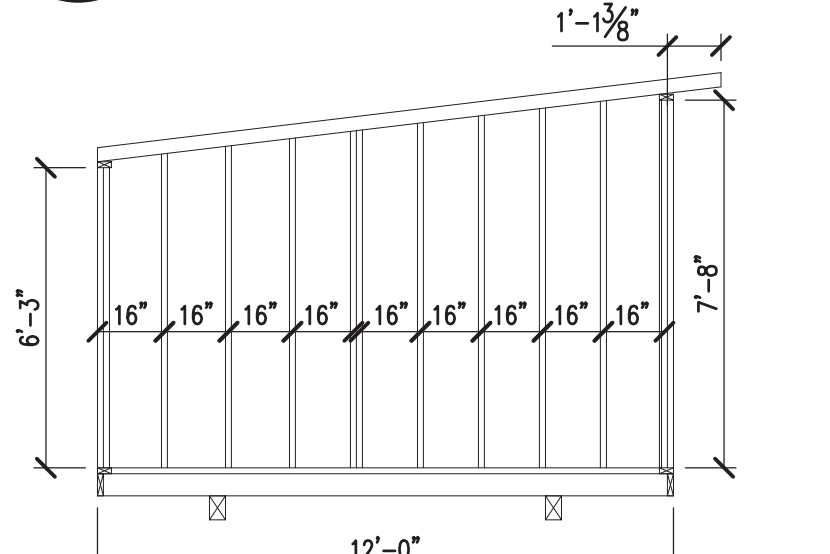
12 8'-0" WIDE ENDWALL ELEVATION
 A-2 SCALE: 1/4"=1'-0"



14 12'-0" WIDE ENDWALL ELEVATION
 A-2 SCALE: 1/4"=1'-0"



16 8'-0" WIDE ENDWALL ELEVATION
 A-2 SCALE: 1/4"=1'-0"



18 12'-0" WIDE ENDWALL ELEVATION
 A-2 SCALE: 1/4"=1'-0"

PROJECT: UTILITY SHED

GARDEN & COTTAGE SHEDS
 FLOOR DECK FRAMING PLANS & DETAILS

DONALD VAN GERVE, P.E.
 SPECIALTY STRUCTURAL ENGINEER

ALTERNATE DESIGN SOLUTIONS
 STRUCTURAL ENGINEERING DESIGN & CONSTRUCTION SERVICES
 PHONE: 215.355.4684
 WWW.ALTERNATEDESIGNSOLUTIONS.COM

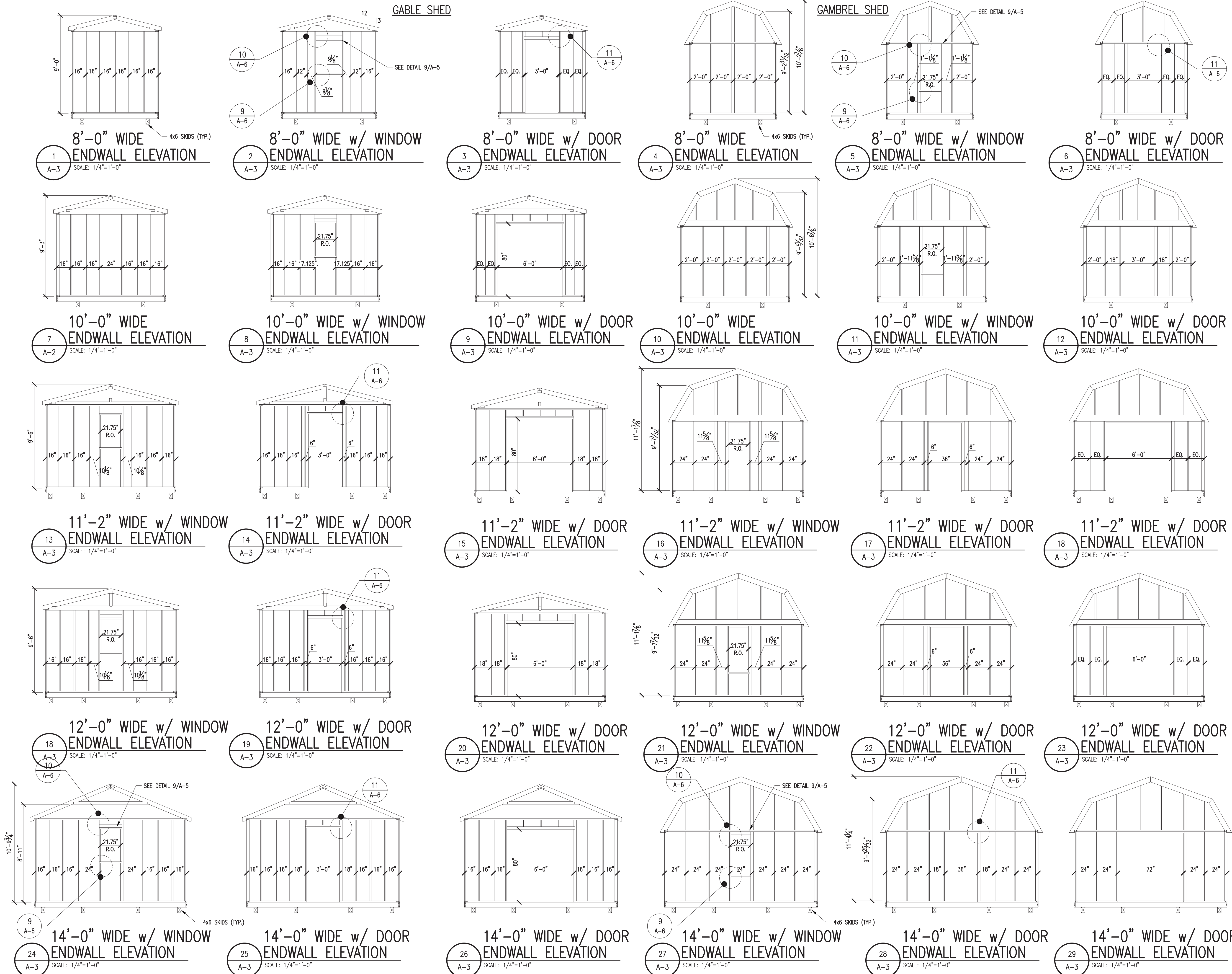
ENGINEERING SERVICES PROVIDED FOR:
 PREMIER PORTABLE BUILDINGS
 317 EAST STATE LINE ROAD
 SOUTH FULTON, TN 38257
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▲			
▲			

DATE: 9.22.19
 PROJECT NO.: 19227
 DRAWING BY: JH
 CHK BY: DVG

DWG NO.: A-2

COMMONWEALTH OF VIRGINIA
 9/23/19
 DONALD J. VAN GERVE
 Lic. No. 014295
 PROFESSIONAL ENGINEER



AREA FOR APPROVAL STAMPS

PROJECT: UTILITY SHED

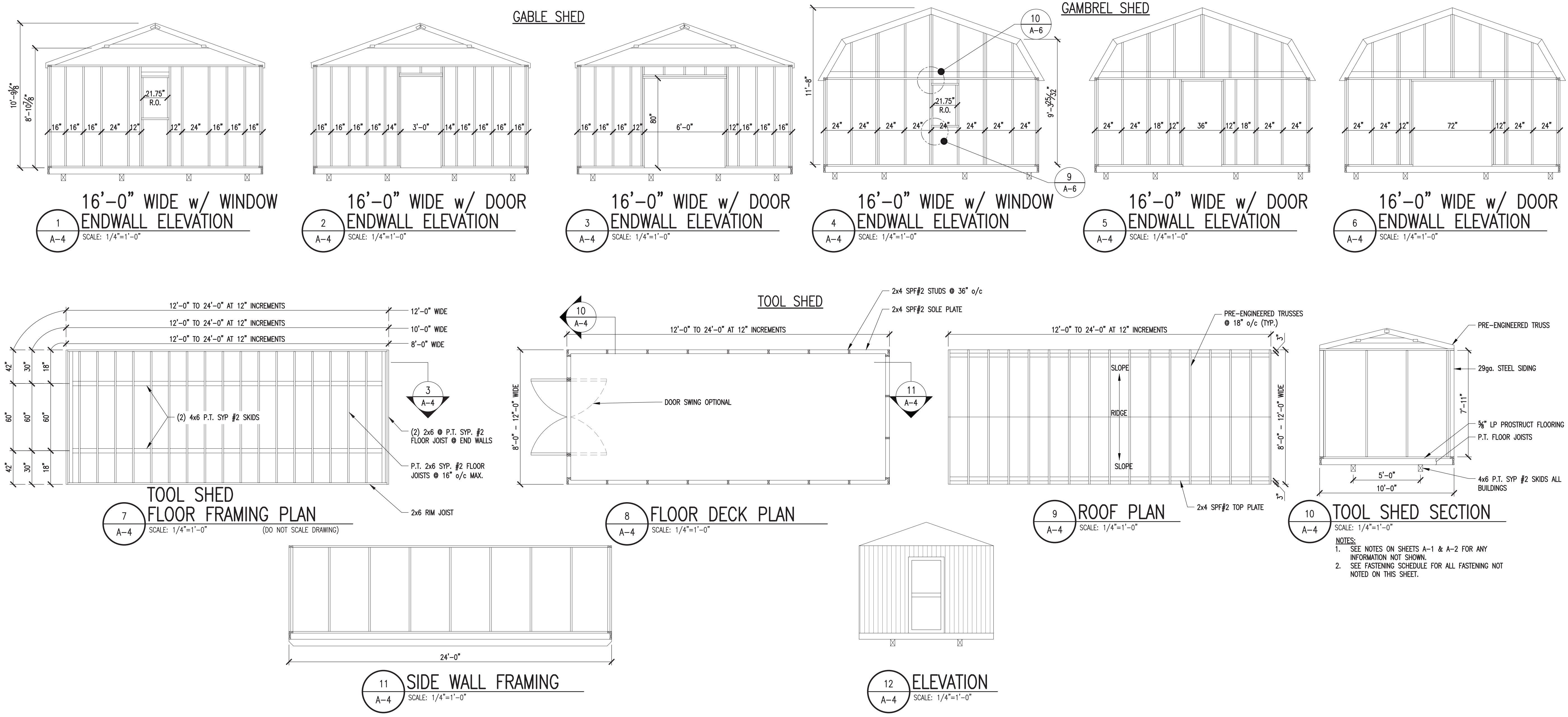
SECTIONS

DONALD VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER

ENGINEERING SERVICES PROVIDED FOR:
PREMIER PORTABLE BUILDINGS
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SOUTH FULTON, TN 38257
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REVISION	DESCRIPTION	DATE	BY
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DATE: 9.22.19
PROJECT NO.: 19227
DRAWING BY: JH
CHK BY: DVG
DWG NO.: A-3



PROJECT: UTILITY SHED

SECTION CUTS
CRAFTSMAN & TOOL SHED

DONALD VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER

ALTERNATE DESIGN SOLUTIONS
STRUCTURAL ENGINEERING DESIGN & CONSTRUCTION SERVICES
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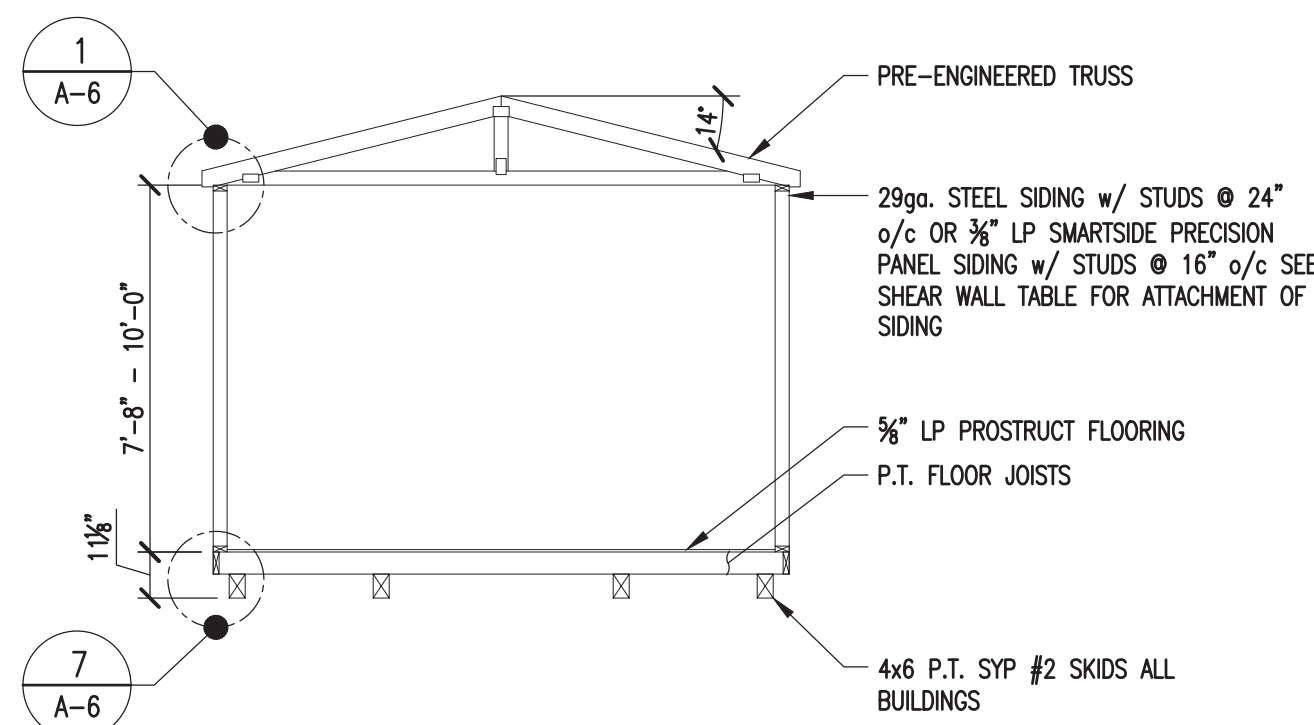
ENGINEERING SERVICES PROVIDED FOR:
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DATE: 9.22.19
PROJECT NO.: 19227
DRAWING BY: JH
CHK BY: DVG

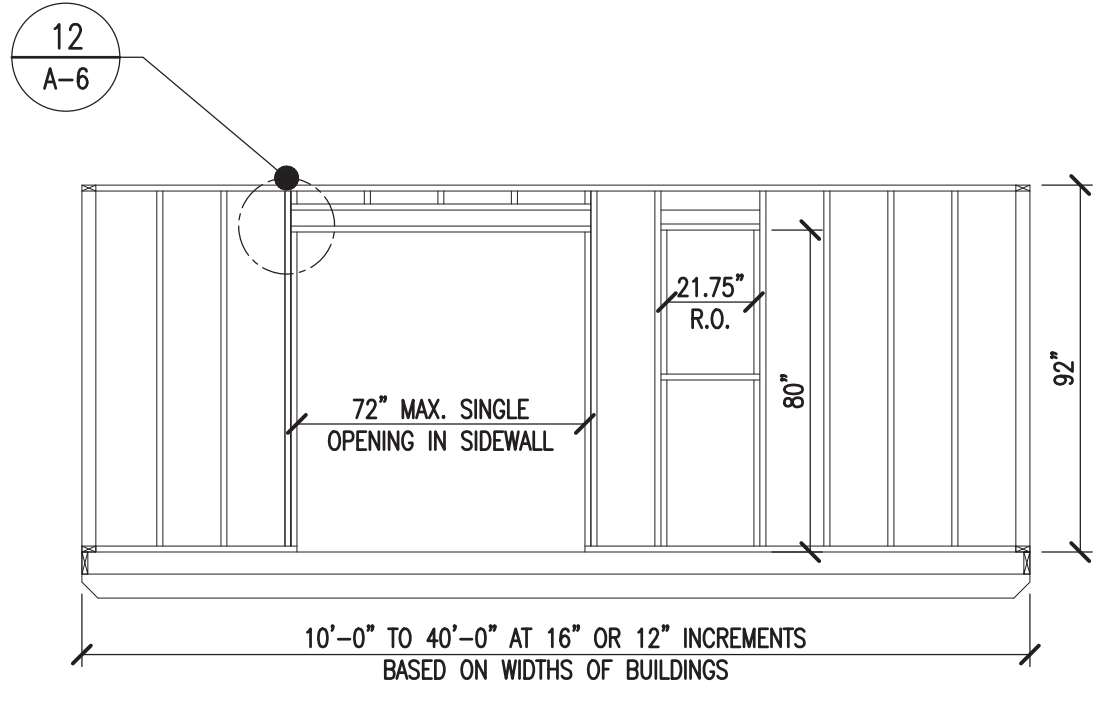
DWG NO.: **A-4**





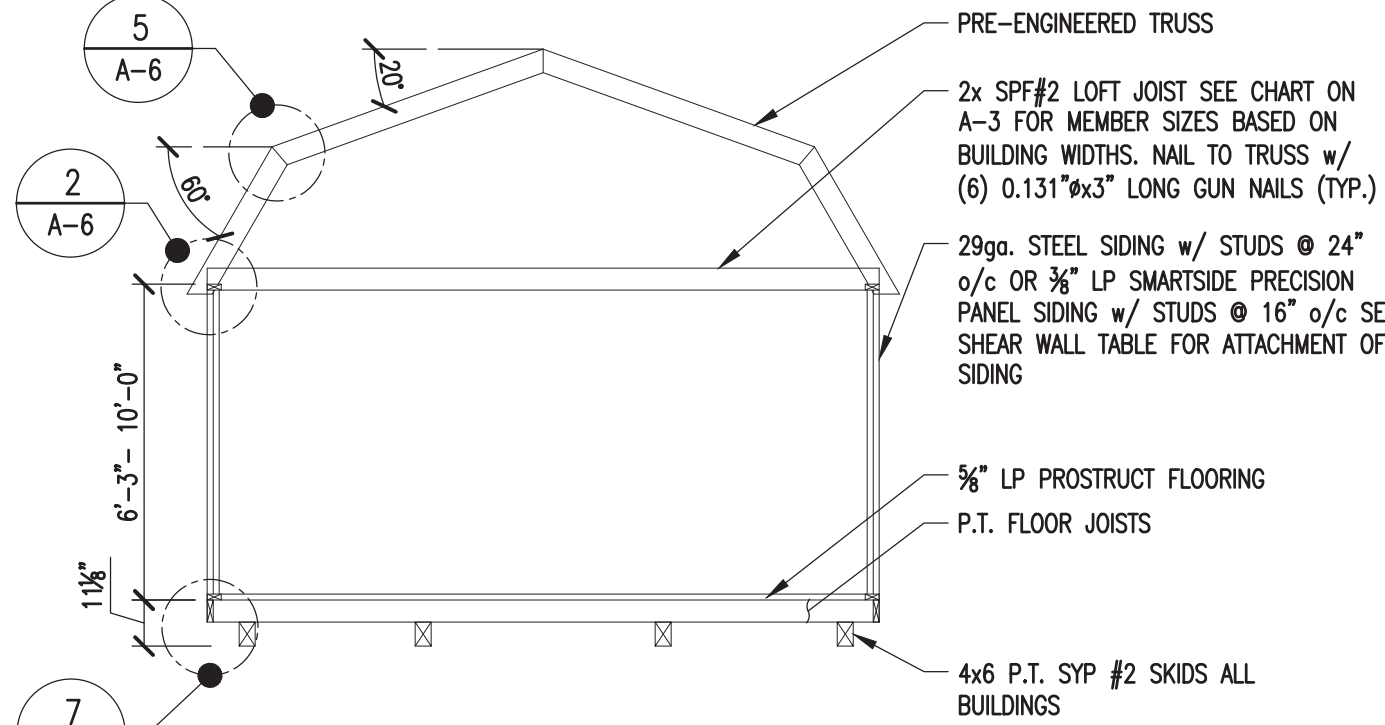
1 GABLE SECTION
SCALE: 1/4"=1'-0"

NOTES:
1. SEE NOTES ON SHEETS A-1 & C-2 FOR ANY INFORMATION NOT SHOWN.
2. SEE FASTENING SCHEDULE FOR ALL FASTENING NOT NOTED ON THIS SHEET.



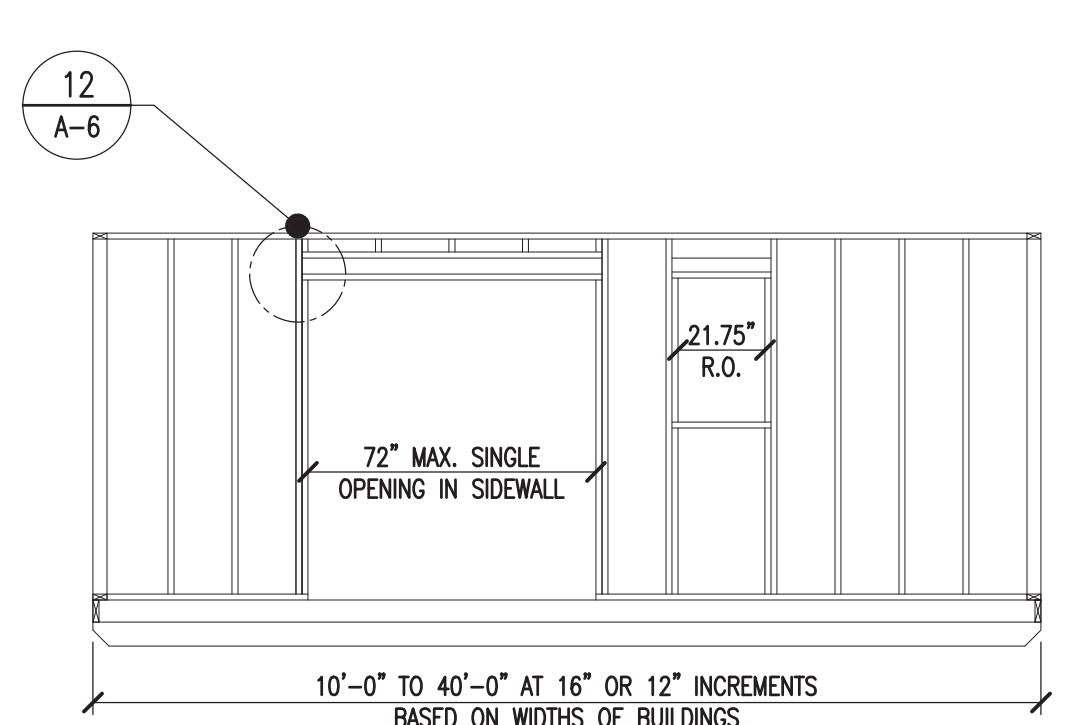
2 SIDEWALL FRAMING
SCALE: 1/4"=1'-0"

NOTES:
MAX. OPENING MAY BE INCREASED TO 9'-0" WITH HEADER PROVIDED THE BUILDING LENGTH IS OVER 16' IN LENGTH AND THE CRITERIA IN NOTE NUMBER 3 OF THE SHEARWALL CHART IS MET.



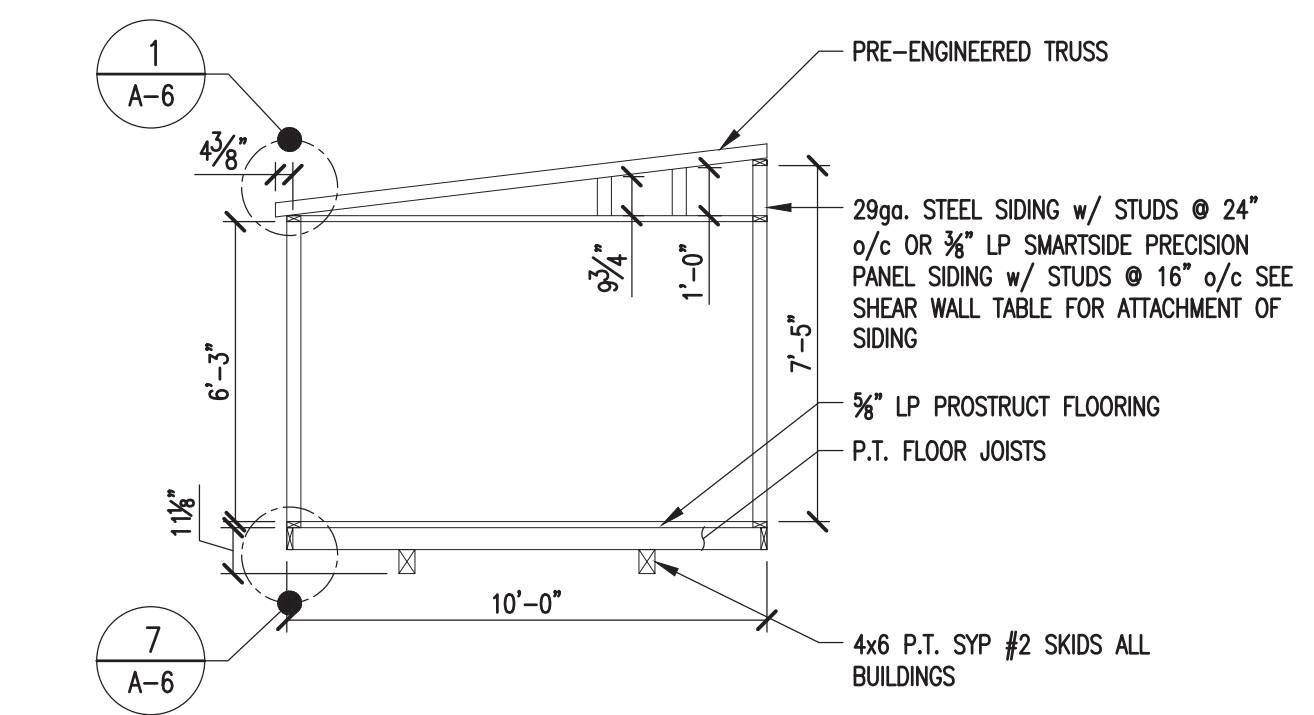
3 GAMBREL SECTION
SCALE: 1/4"=1'-0"

NOTES:
1. SEE NOTES ON SHEETS A-1 & C-2 FOR ANY INFORMATION NOT SHOWN.
2. SEE FASTENING SCHEDULE FOR ALL FASTENING NOT NOTED ON THIS SHEET.



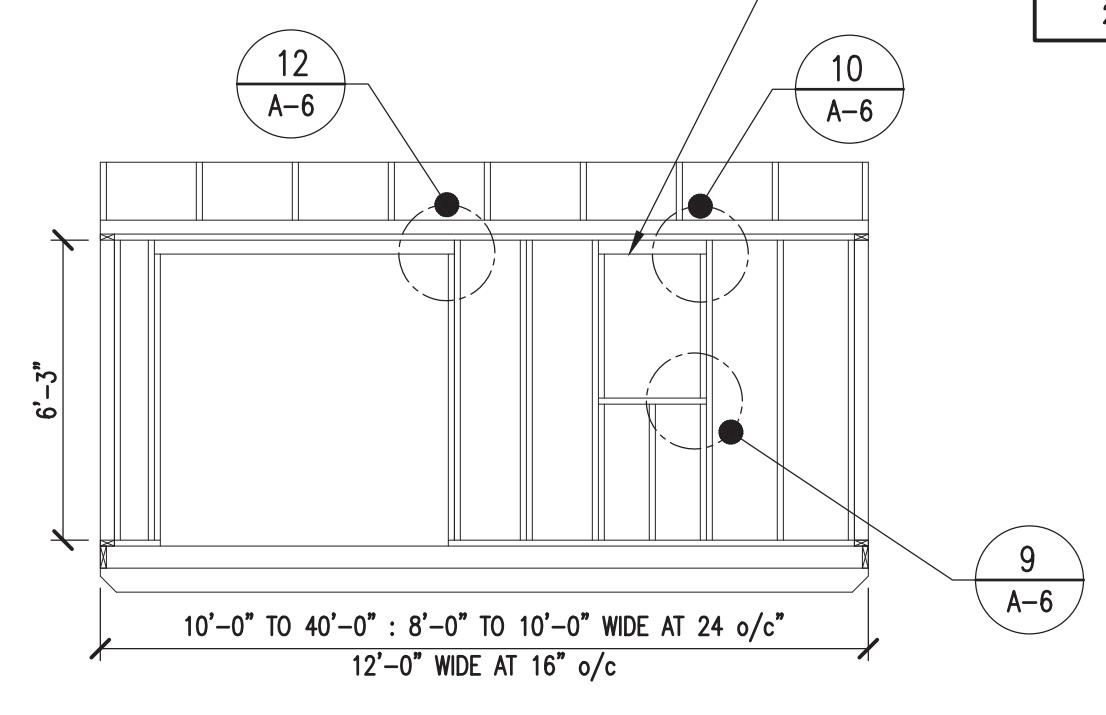
4 SIDEWALL FRAMING
SCALE: 1/4"=1'-0"

NOTES:
MAX. OPENING MAY BE INCREASED TO 9'-0" WITH HEADER PROVIDED THE BUILDING LENGTH IS OVER 16' IN LENGTH AND THE CRITERIA IN NOTE NUMBER 3 OF THE SHEARWALL CHART IS MET.



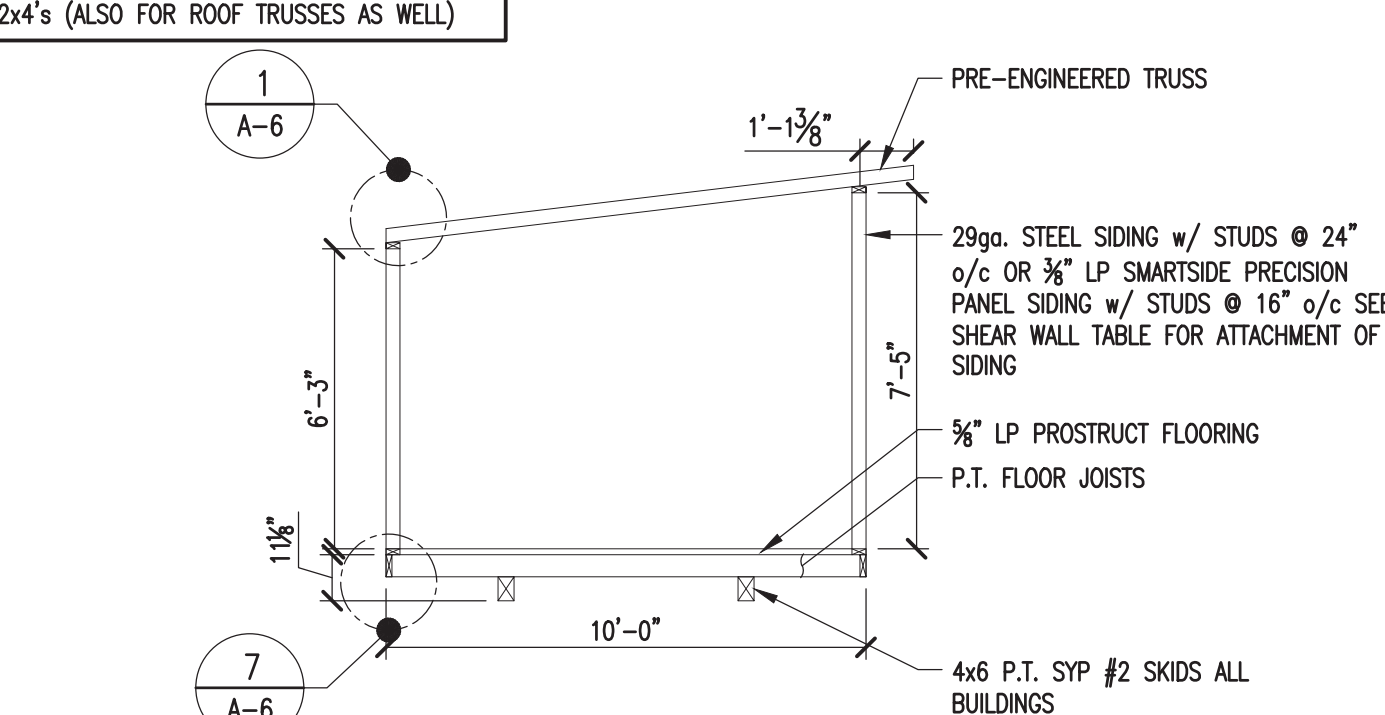
5 GARDEN SHED SECTION
SCALE: 1/4"=1'-0"

NOTES:
1. SEE NOTES ON SHEETS A-1 & A-2 FOR ANY INFORMATION NOT SHOWN.
2. SEE FASTENING SCHEDULE FOR ALL FASTENING NOT NOTED ON THIS SHEET.



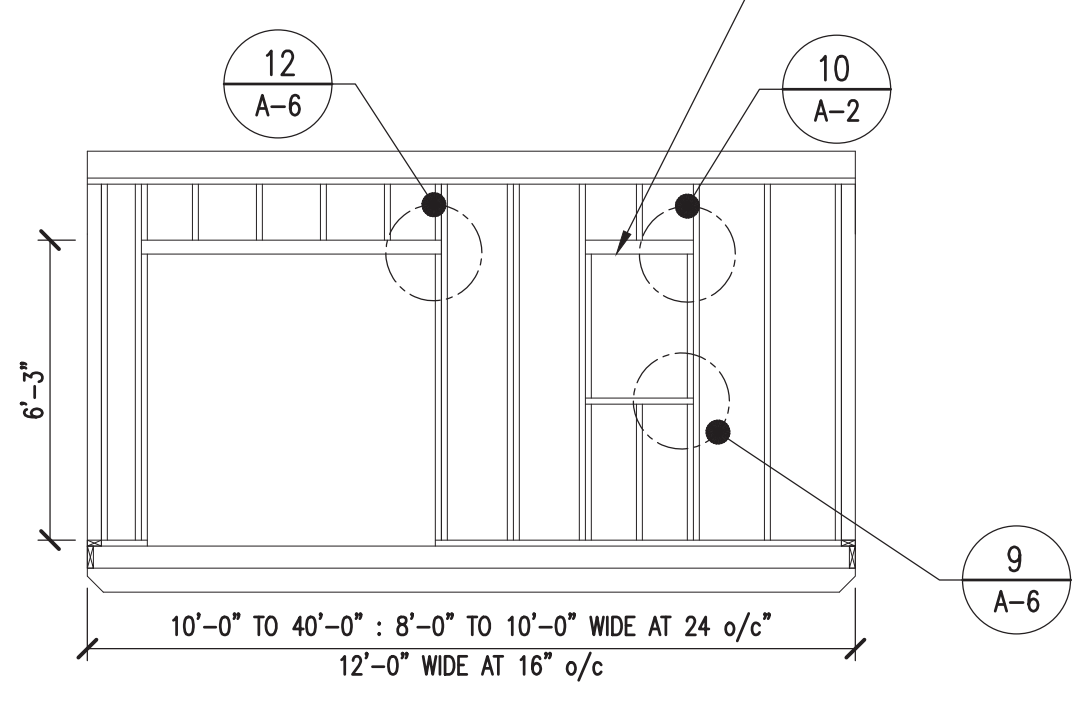
6 SIDEWALL FRAMING
SCALE: 1/4"=1'-0"

NOTES:
MAX. OPENING MAY BE INCREASED TO 9'-0" WITH HEADER 8/A-11 PROVIDED THE BUILDING LENGTH IS OVER 16' IN LENGTH AND THE CRITERIA IN NOTE NUMBER 3 OF THE SHEARWALL CHART IS MET.

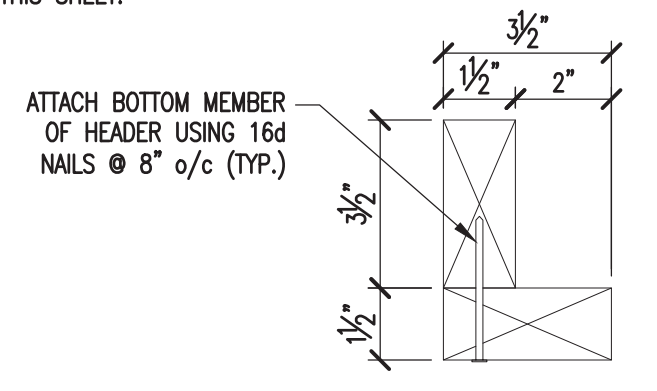


7 COTTAGE SHED SECTION
SCALE: 1/4"=1'-0"

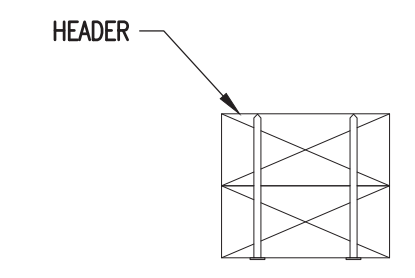
NOTES:
1. SEE NOTES ON SHEETS A-1 & A-2 FOR ANY INFORMATION NOT SHOWN.
2. SEE FASTENING SCHEDULE FOR ALL FASTENING NOT NOTED ON THIS SHEET.



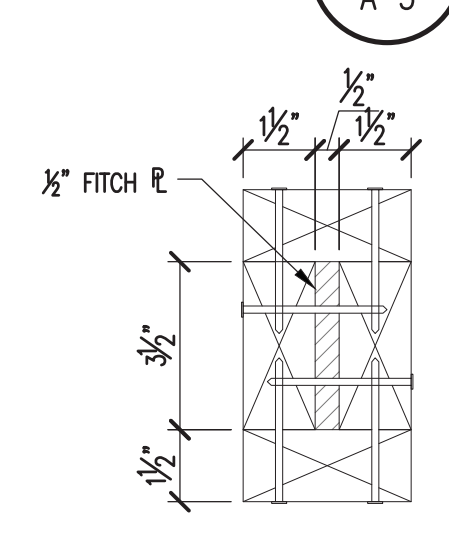
8 SIDEWALL FRAMING
SCALE: 1/4"=1'-0"



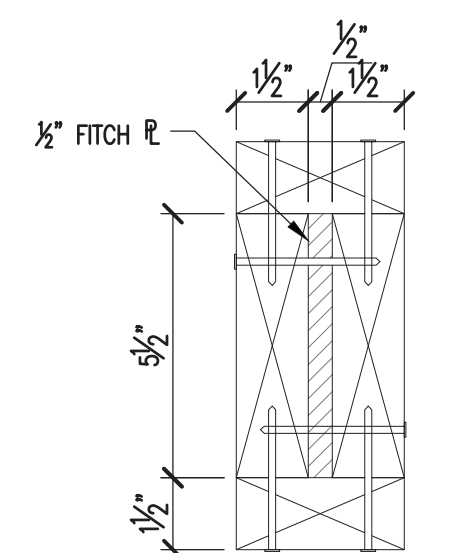
9 WINDOW HEADER DETAIL
SCALE: 3"=1'-0"



10 DOOR HEADER DETAIL
SCALE: 3"=1'-0"



11 DOOR HEADER DETAIL
SCALE: 3"=1'-0"

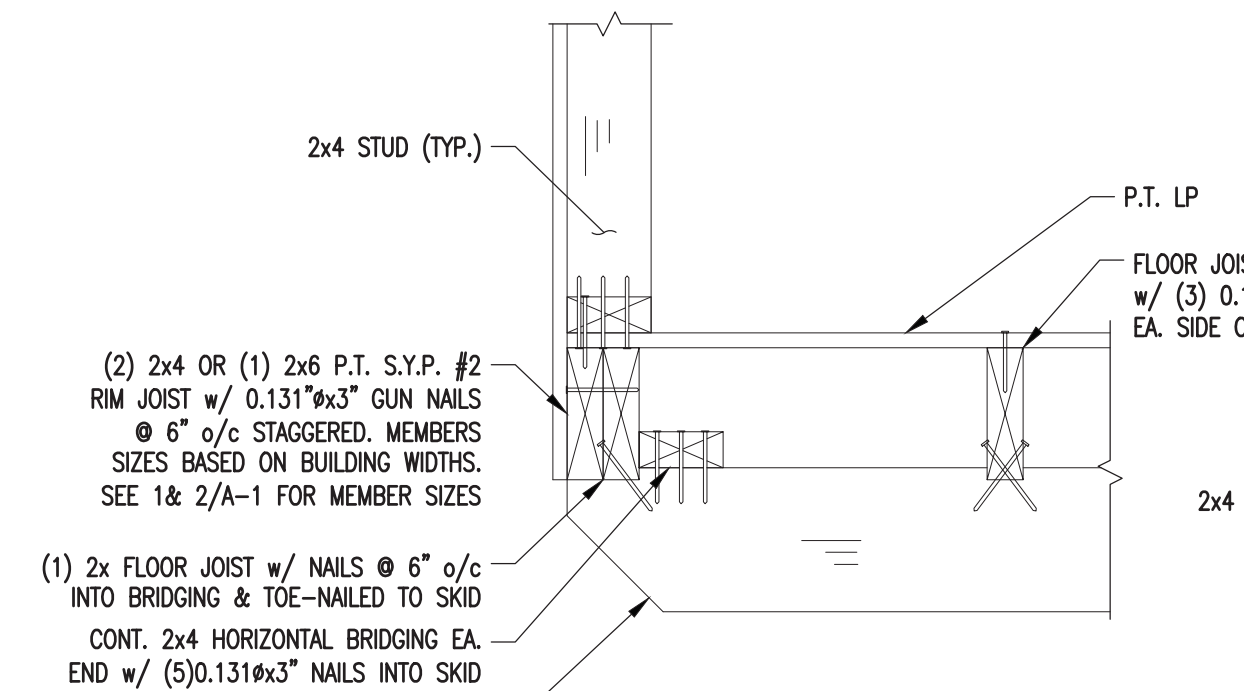


12 DOOR HEADER DETAIL
SCALE: 3"=1'-0"

NOTE:
1. SEE NOTES ON SHEETS A-1 & A-2 FOR ANY INFORMATION NOT SHOWN HERE.
2. SEE FASTENING SCHEDULE FOR ALL FASTENING NOT NOTED ON THIS SHEET.

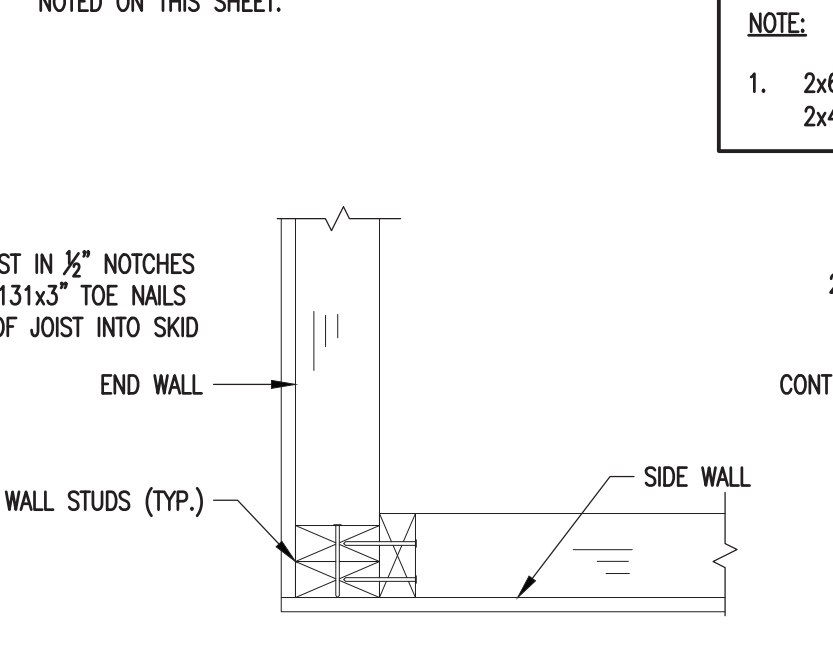
NOTE:
1. 2x6 STUD FRAMING MAY BE USED IN LIEU OF 2x4's (ALSO FOR ROOF TRUSSES AS WELL)

NOTE:
1. 2x6 STUD FRAMING MAY BE USED IN LIEU OF 2x4's (ALSO FOR ROOF TRUSSES AS WELL)

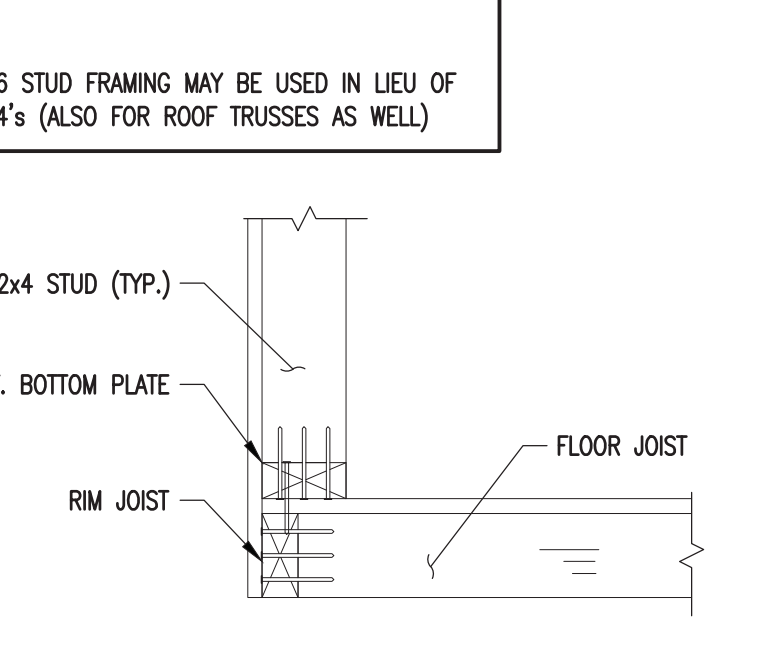


13 SKID TO JOIST DETAIL
SCALE: 1-1/2"=1'-0"

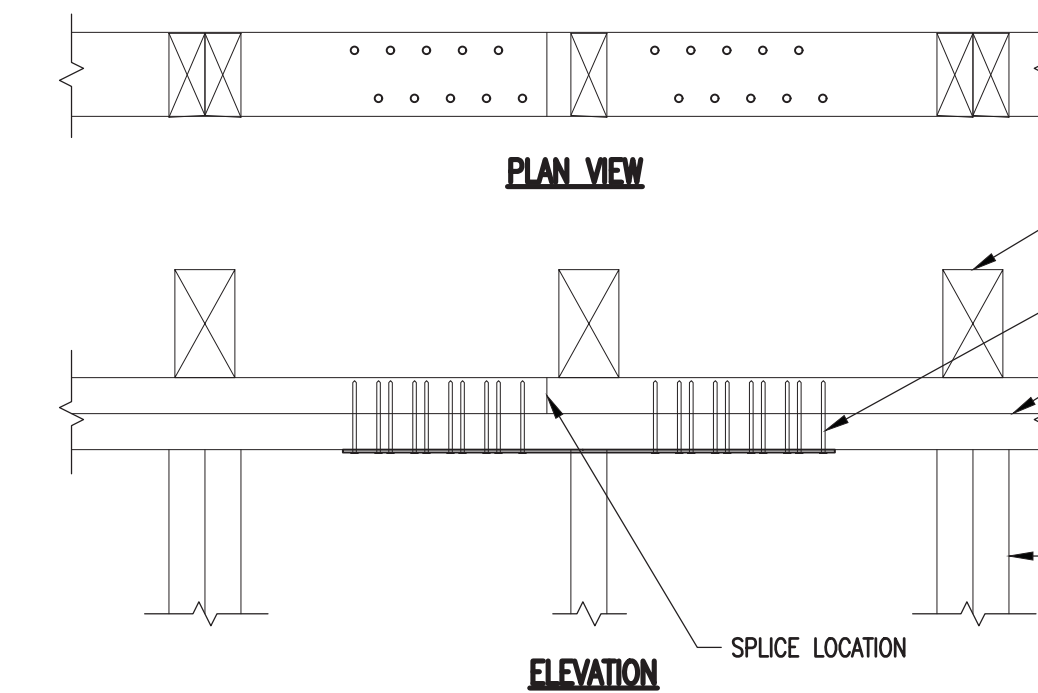
NOTES:
1. SEE NOTES ON SHEETS A-1 & C-2 FOR ANY INFORMATION NOT SHOWN HERE.
2. SEE FASTENING SCHEDULE FOR ALL FASTENING NOT NOTED ON THIS SHEET.



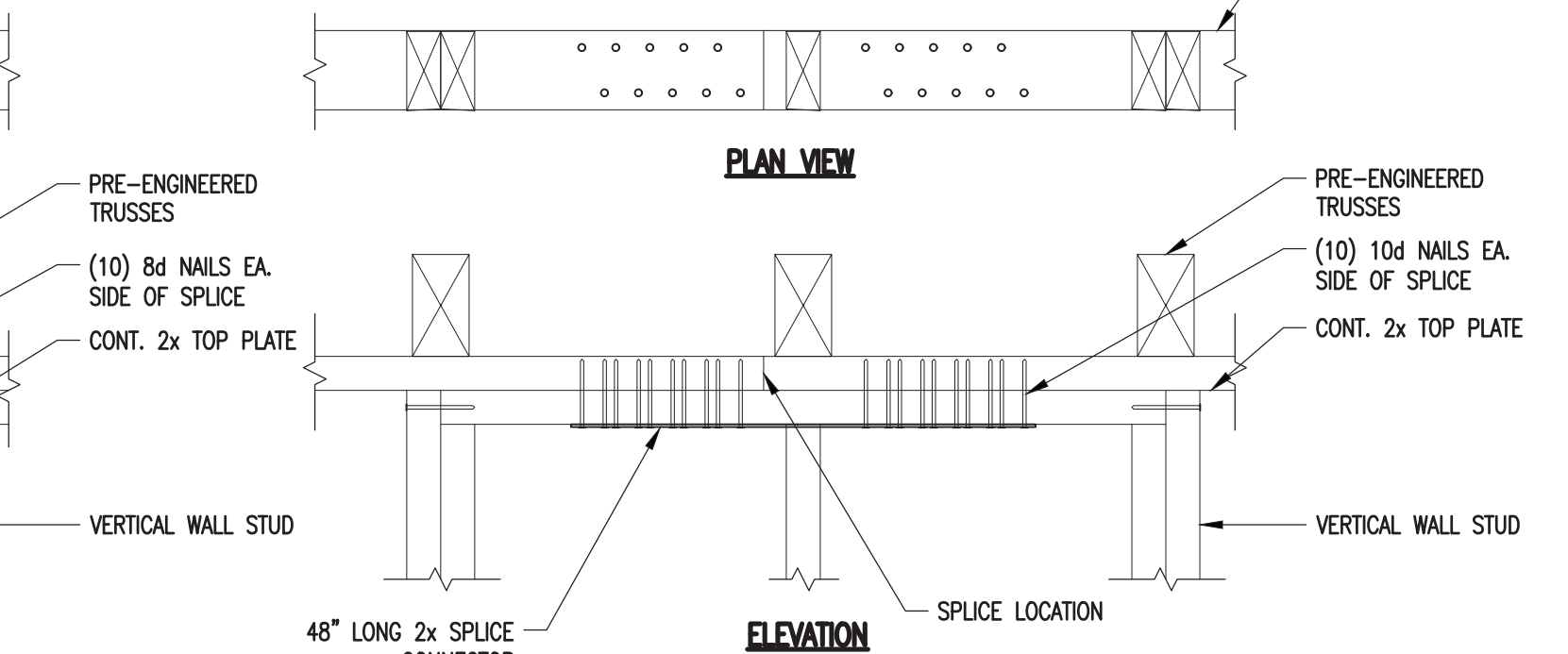
14 CORNER CONNECTION DETAIL
SCALE: 1-1/2"=1'-0"



15 WALL TO RIM JOIST
SCALE: 1-1/2"=1'-0"



16 TOP PLATE SPLICE DETAIL
SCALE: 1-1/2"=1'-0"



17 SPLICE CONNECTION DETAIL
SCALE: 1-1/2"=1'-0"

PROJECT: UTILITY SHED

TYPICAL DETAILS

DONALD VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER

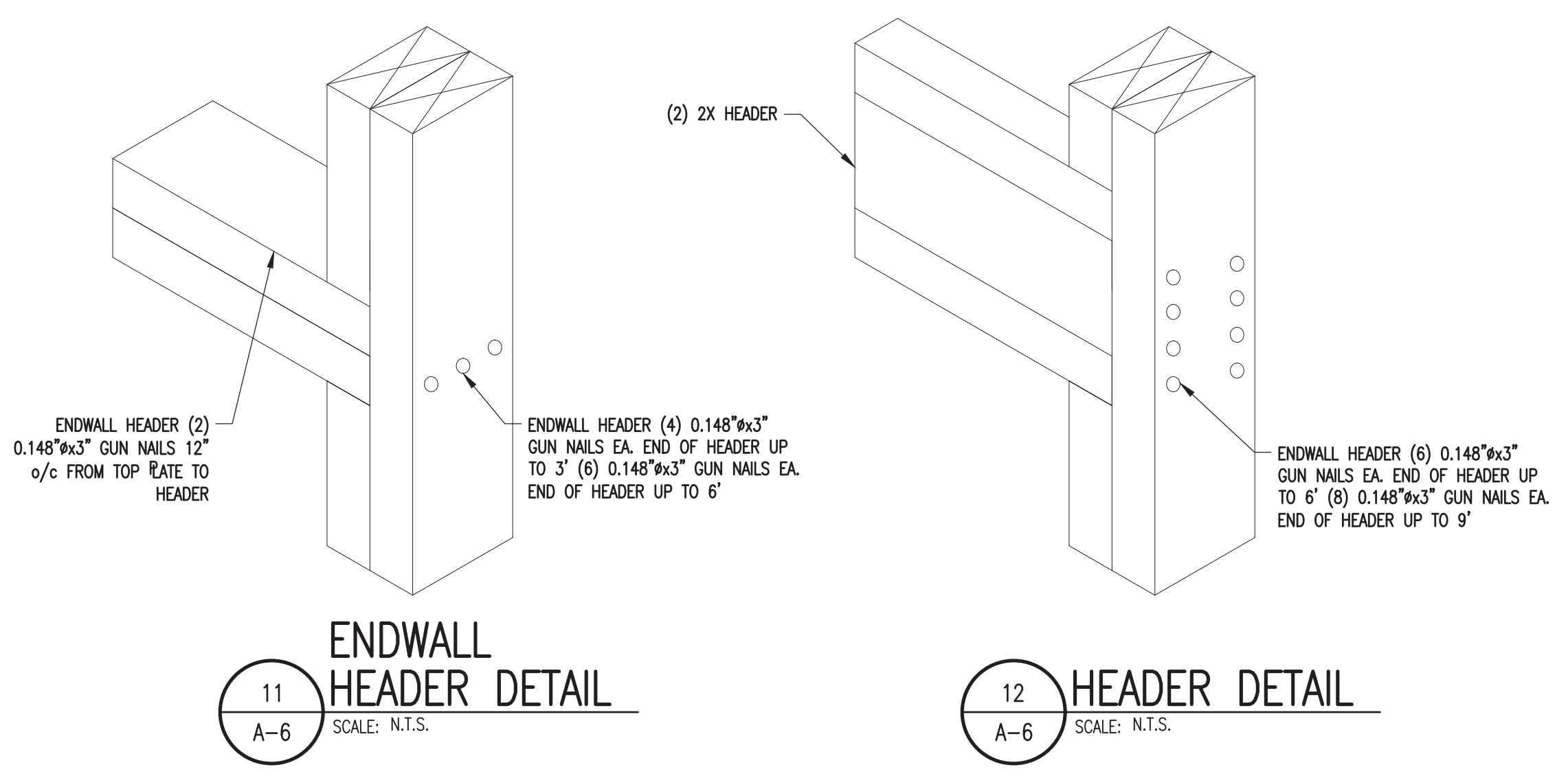
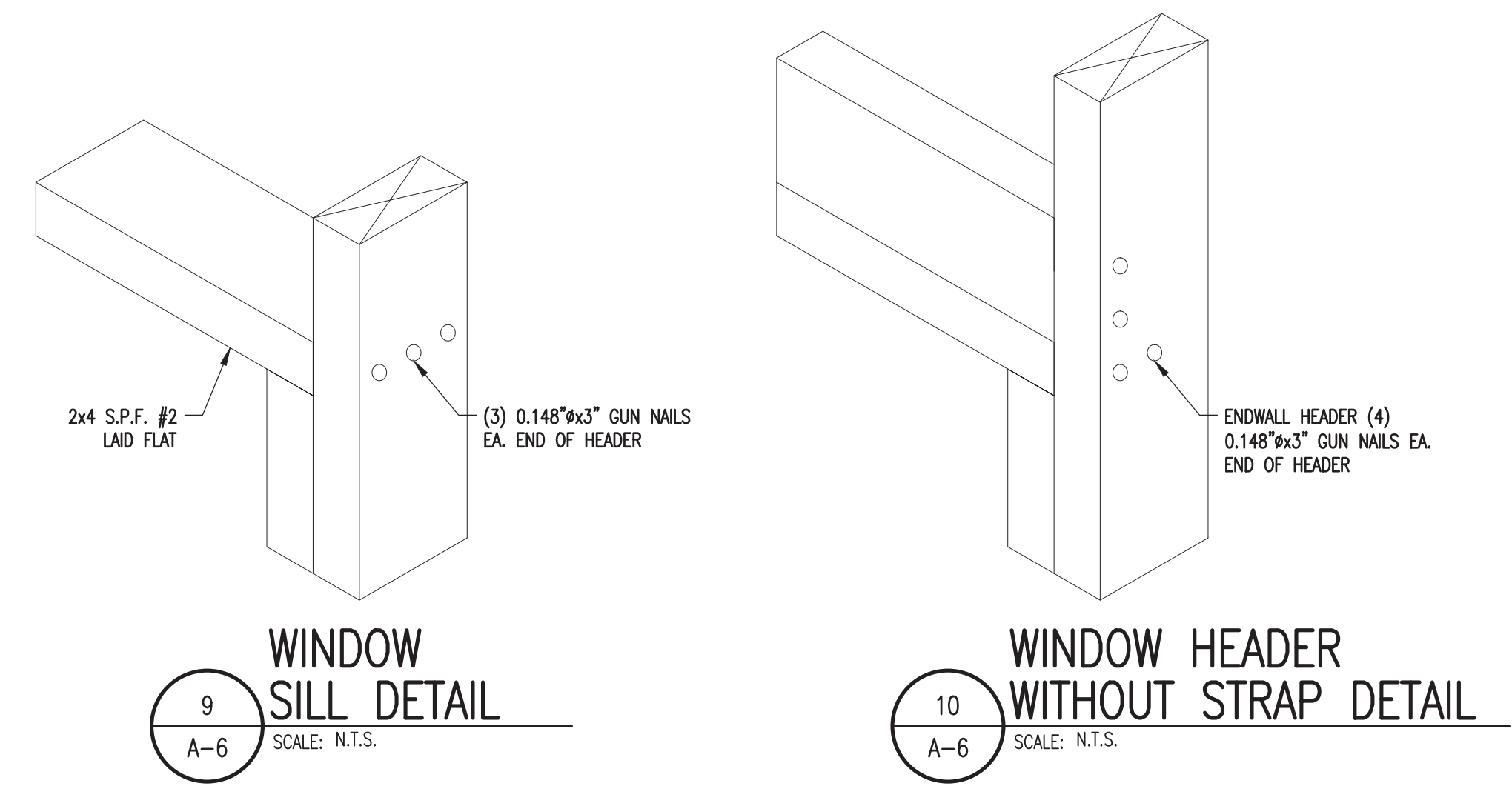
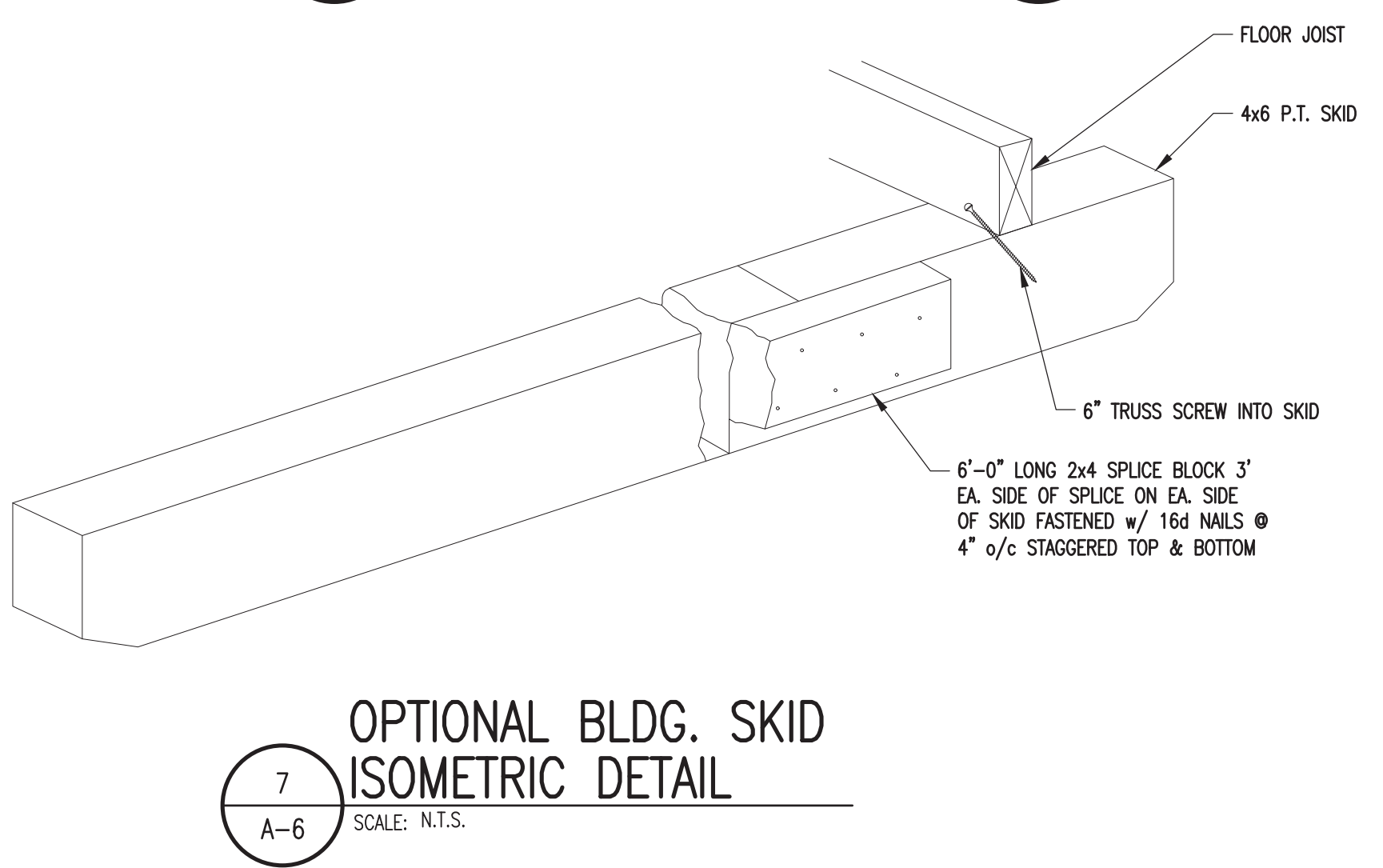
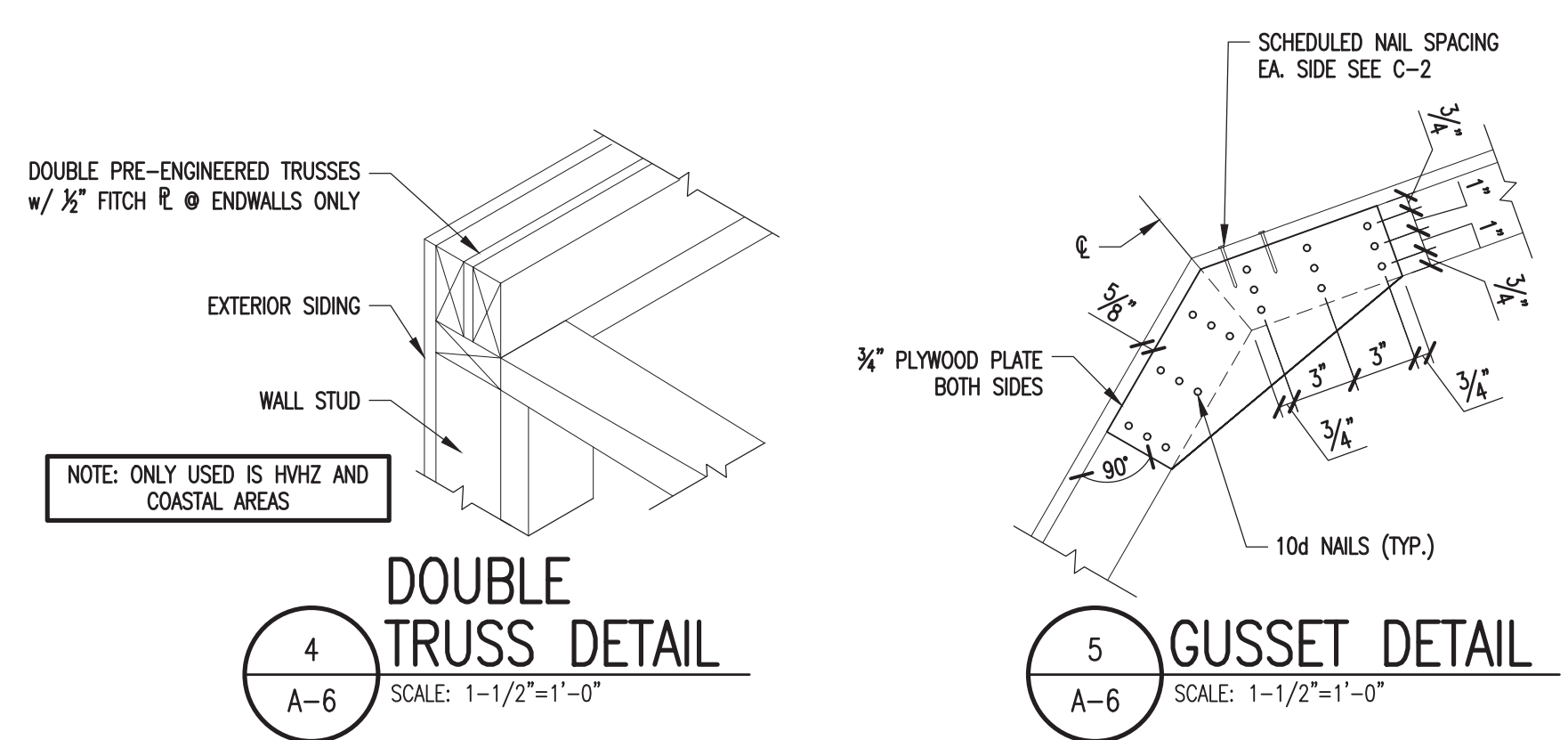
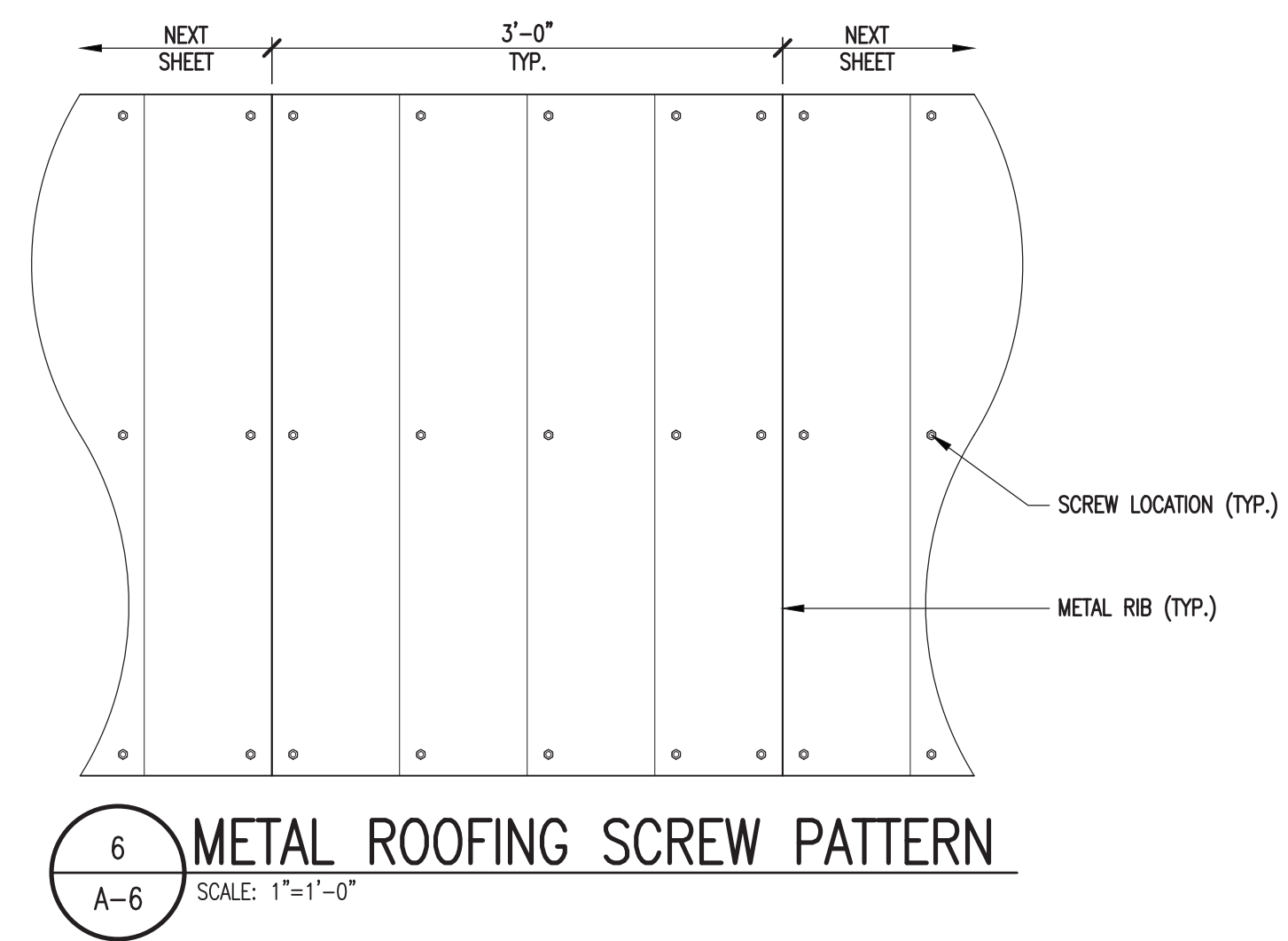
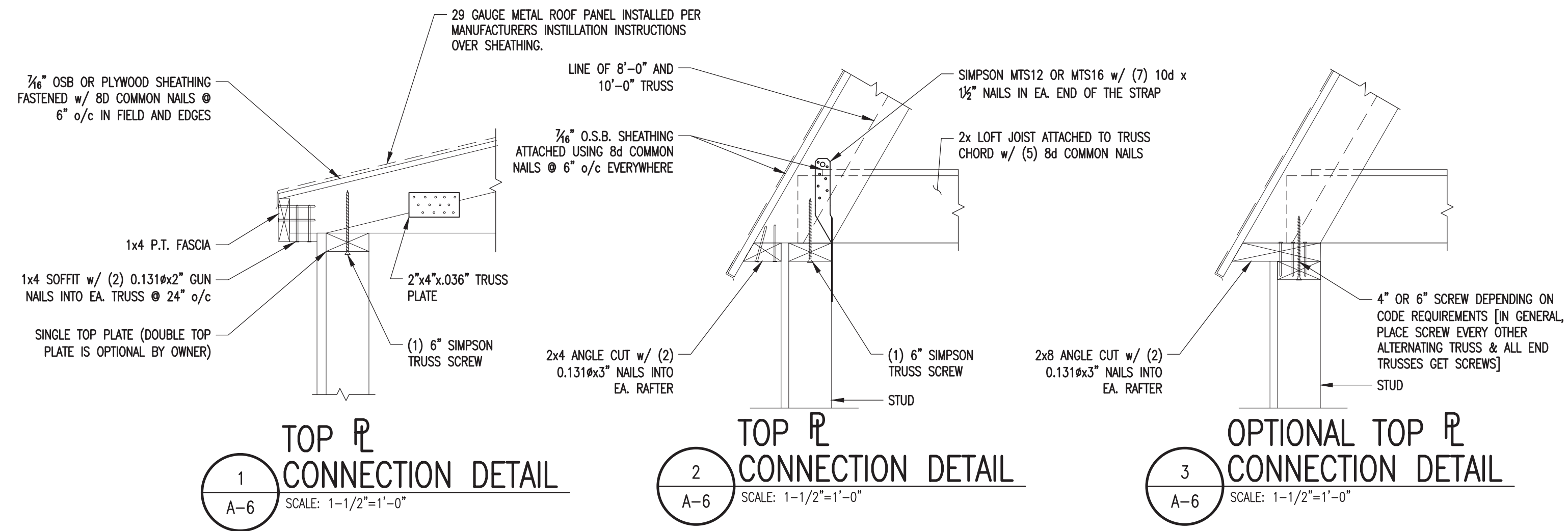
ADS ALTERNATE DESIGN SOLUTIONS
STRUCTURAL ENGINEERING DESIGN & CONSTRUCTION SERVICES
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ENGINEERING SERVICES PROVIDED FOR:
PREMIER PORTABLE BUILDINGS
317 EAST STATE LINE ROAD
SOUTH FULTON, TN 38257
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DATE: 9.22.19
PROJECT NO.: 19227
DRAWING BY: JH
CHK BY: DVG
DWG NO.: A-5





PROJECT: UTILITY SHED

TYPICAL DETAILS

DONALD VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER

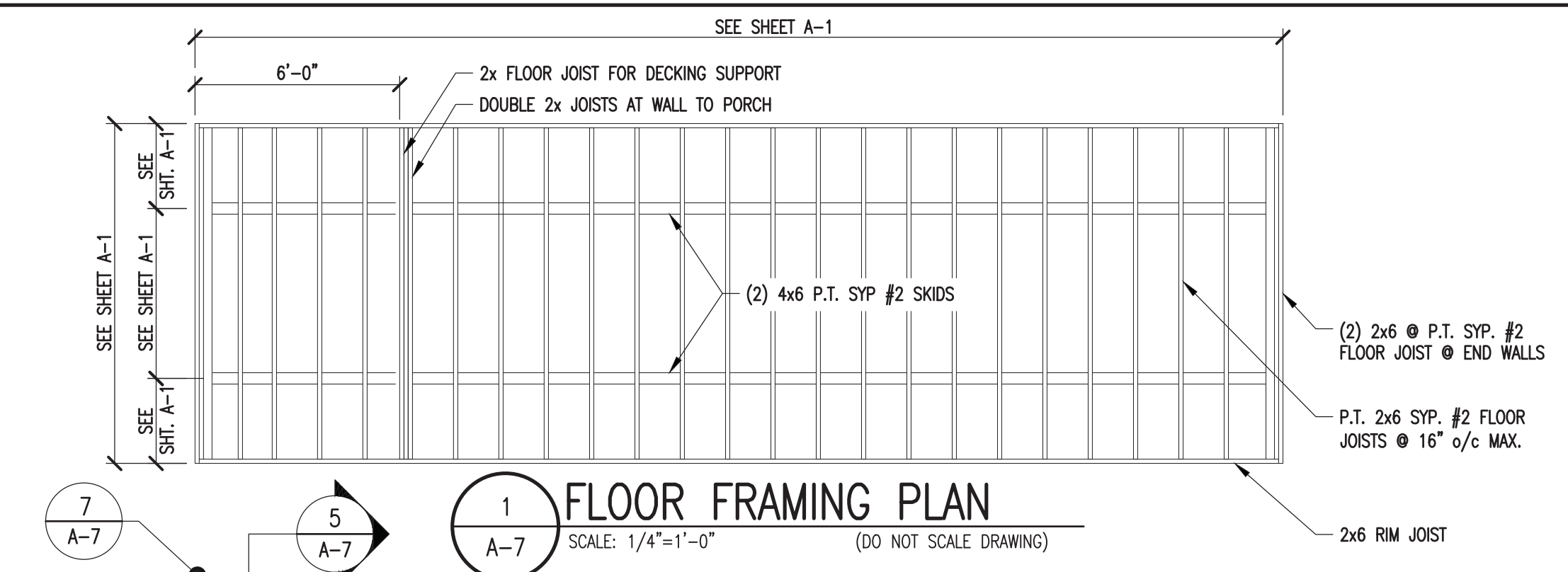
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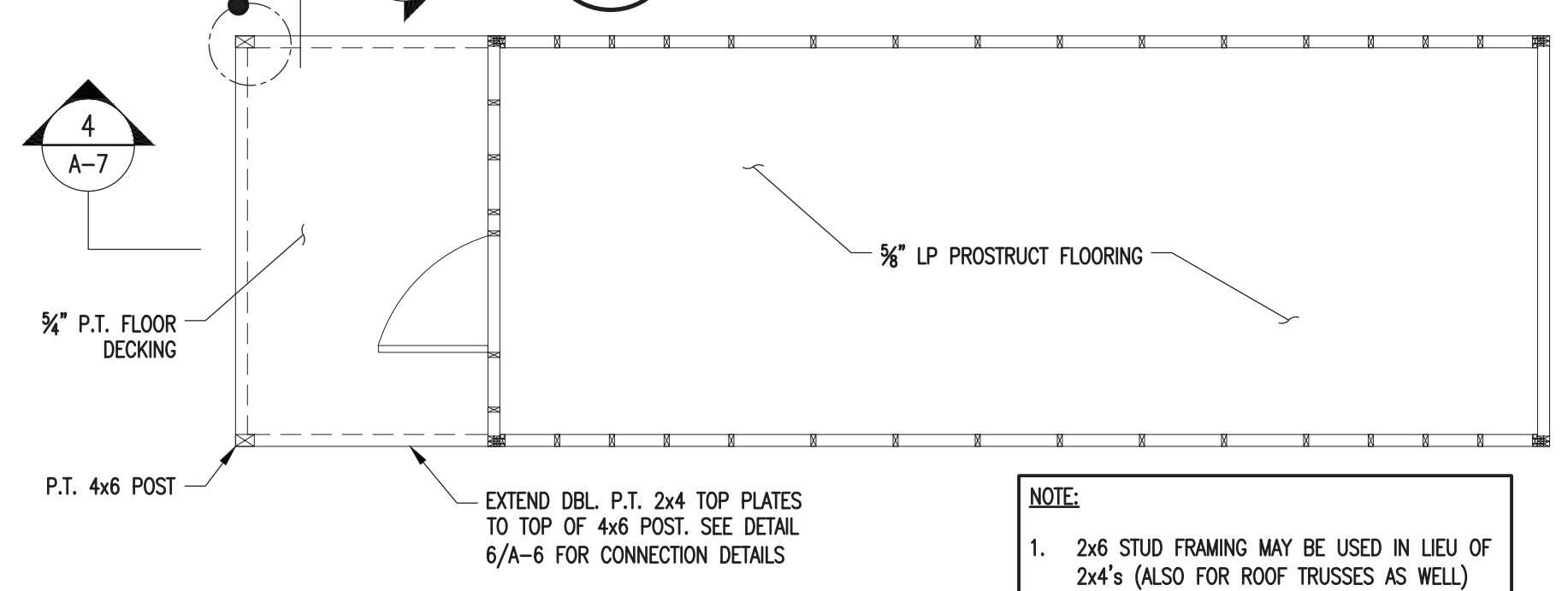
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DATE: 9.22.19
PROJECT NO.: 19227
DRAWING BY: JH
CHK BY: DVG
DWG NO.: A-6

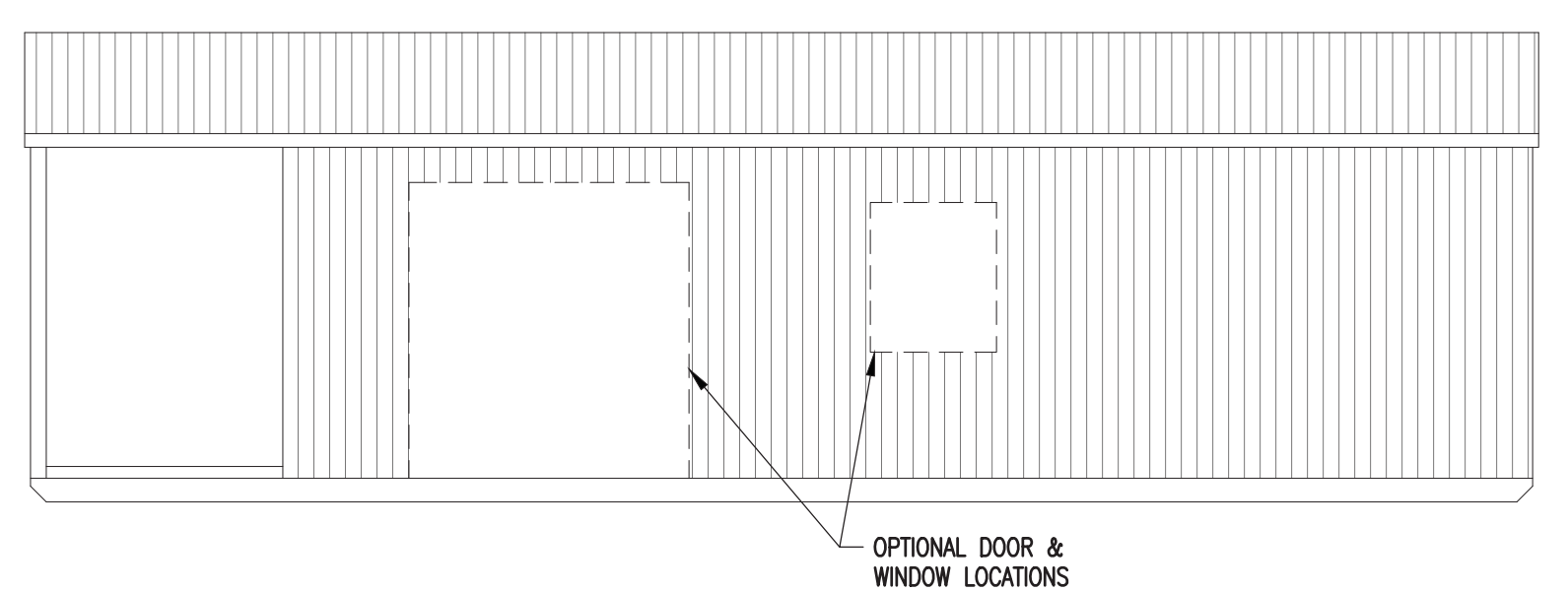




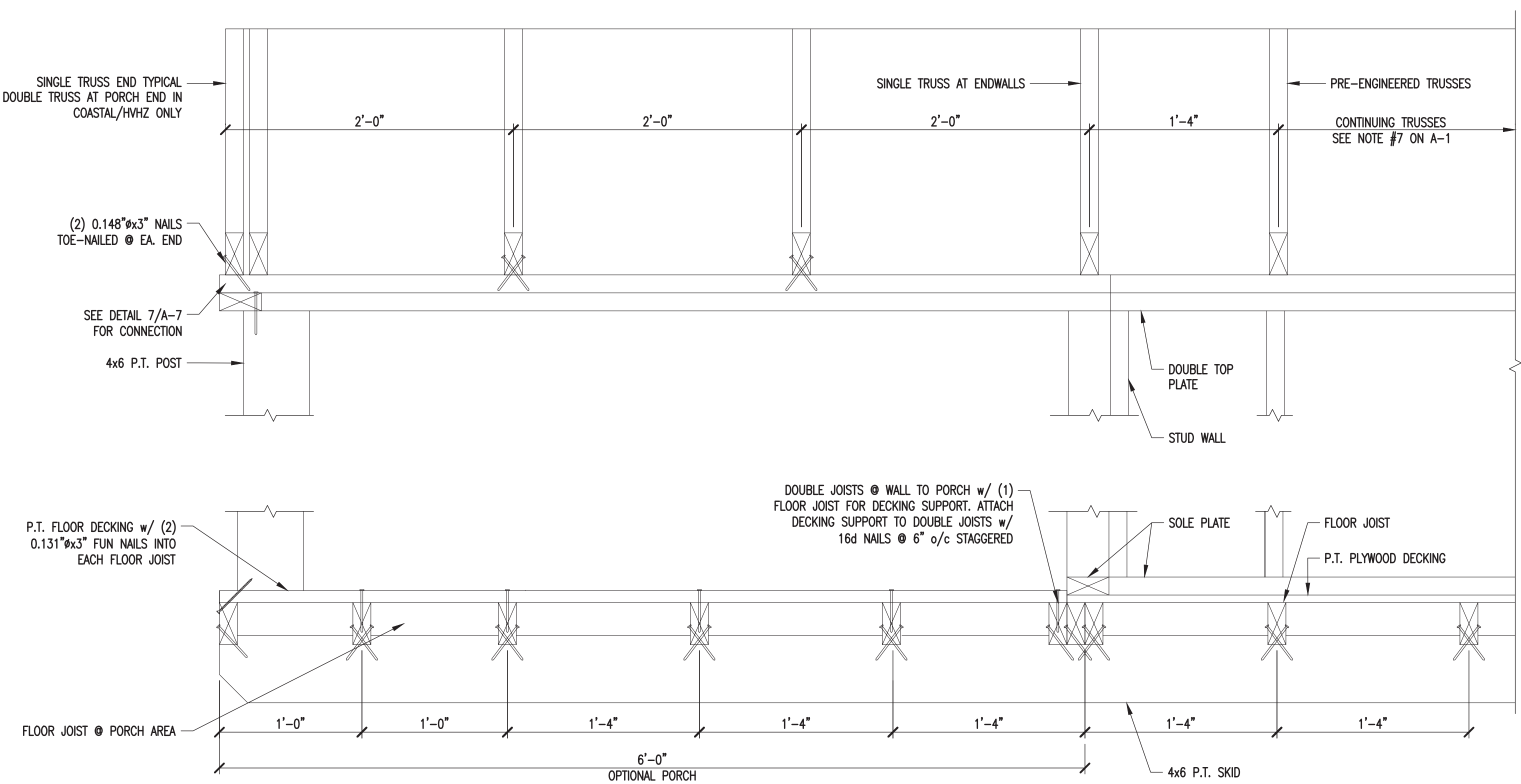
1 FLOOR FRAMING PLAN
 SCALE: 1/4"=1'-0"
 (DO NOT SCALE DRAWING)



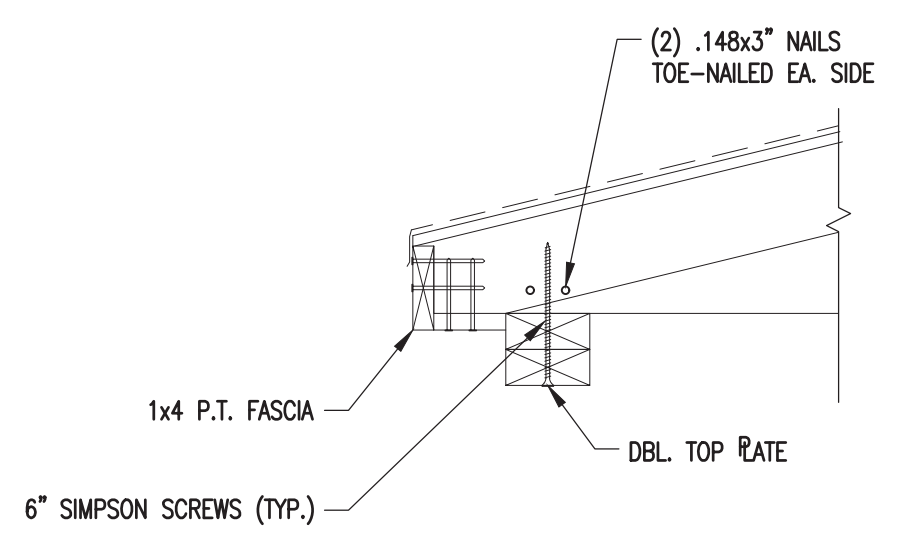
2 FLOOR FRAMING PLAN
 SCALE: 1/4"=1'-0"
 (DO NOT SCALE DRAWING)



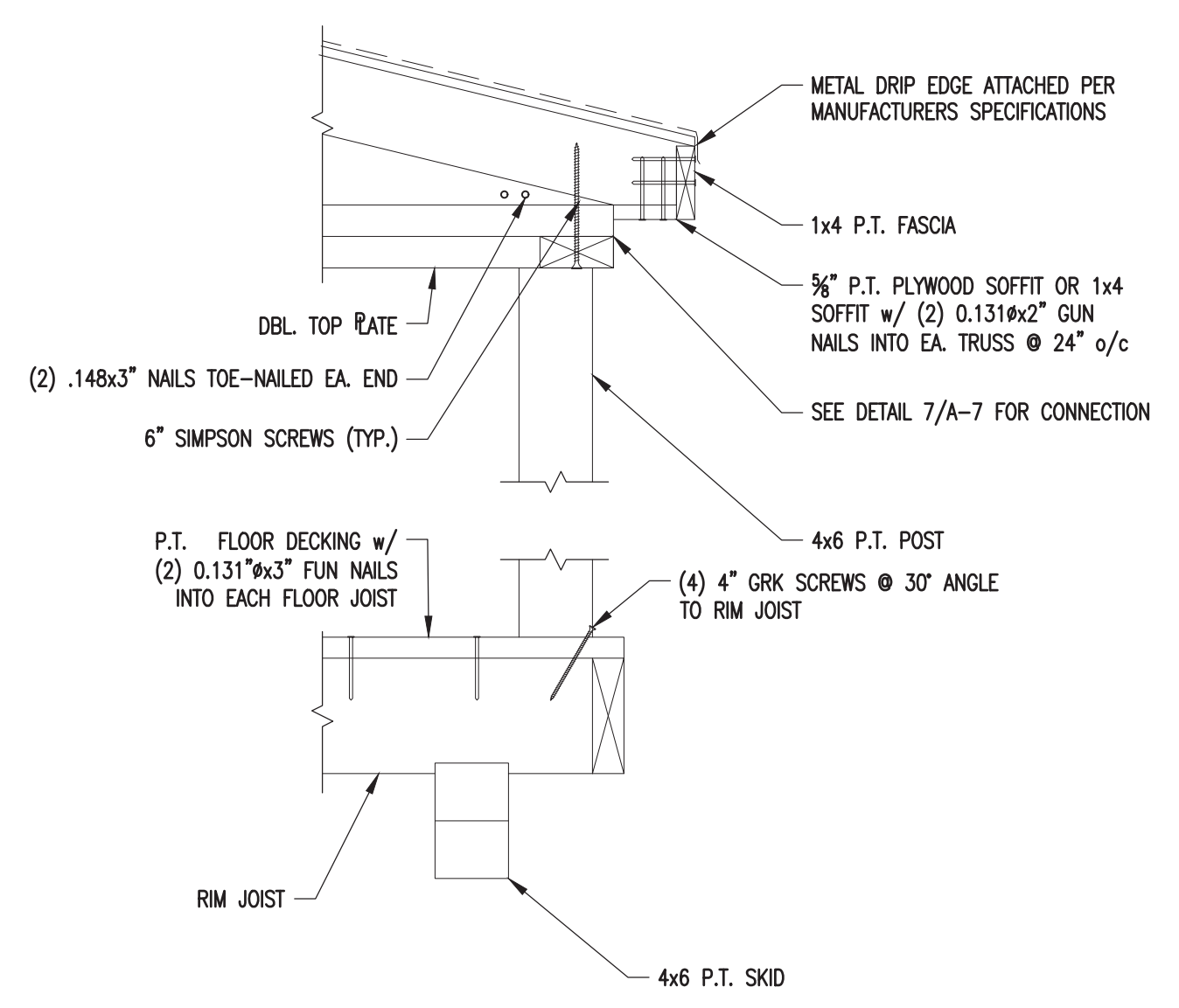
3 SIDEWALL ELEVATION
 SCALE: 1/4"=1'-0"



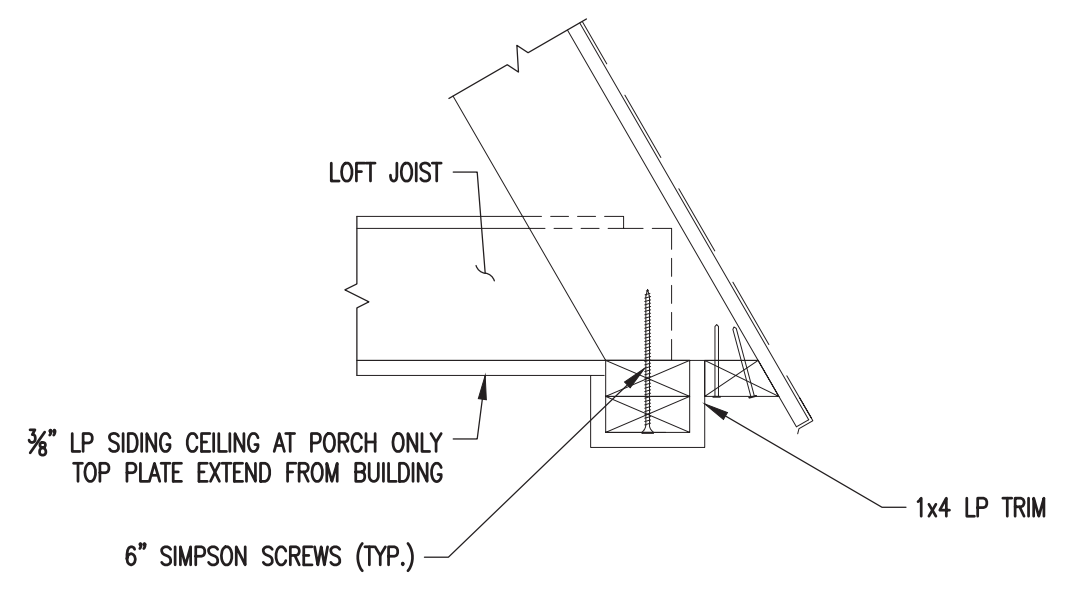
4 OPTIONAL PORCH SECTION DETAIL
 SCALE: 1-1/2"=1'-0"



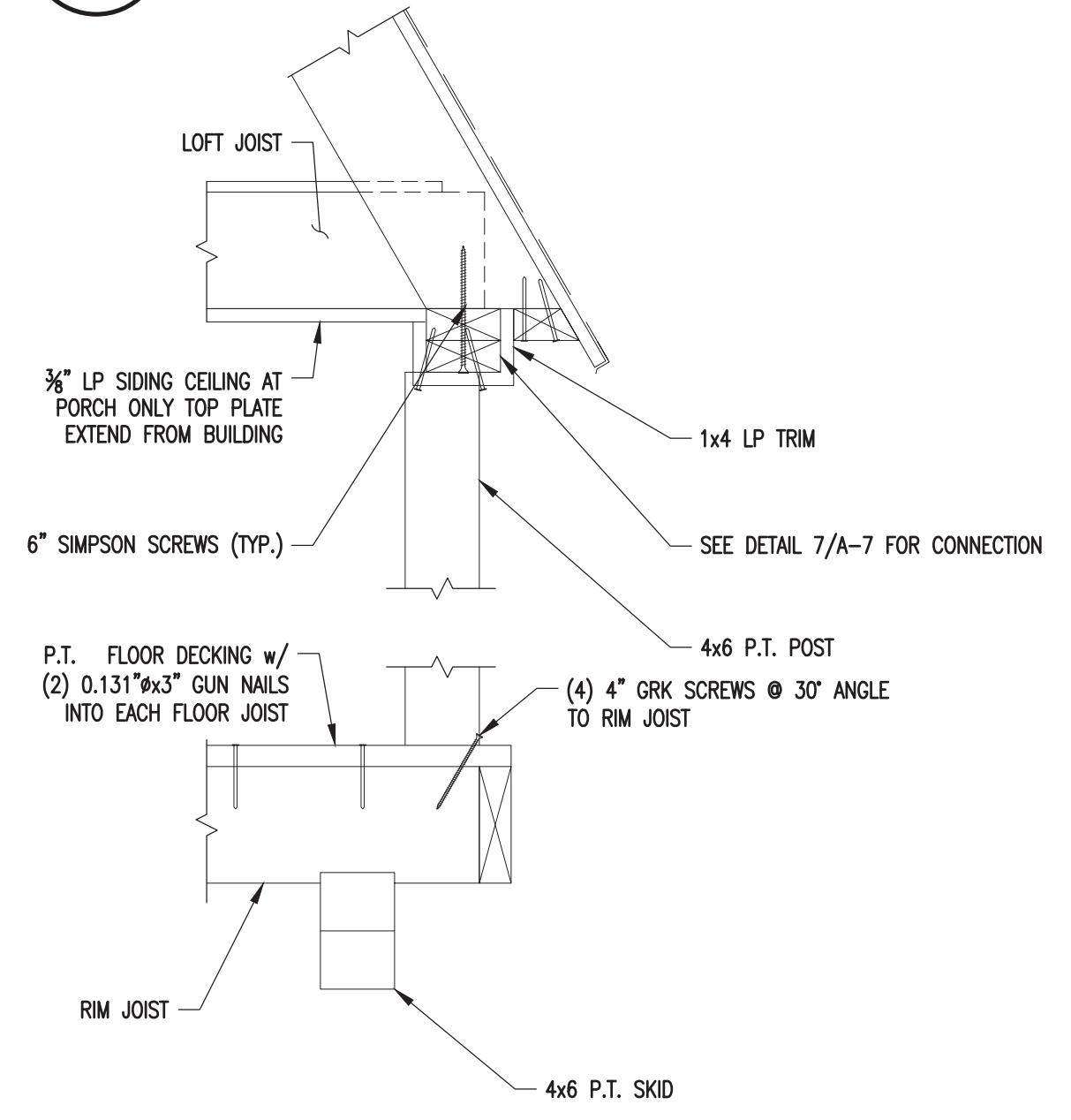
5 PORCH TOP PLATE DETAIL
 SCALE: 1-1/2"=1'-0"



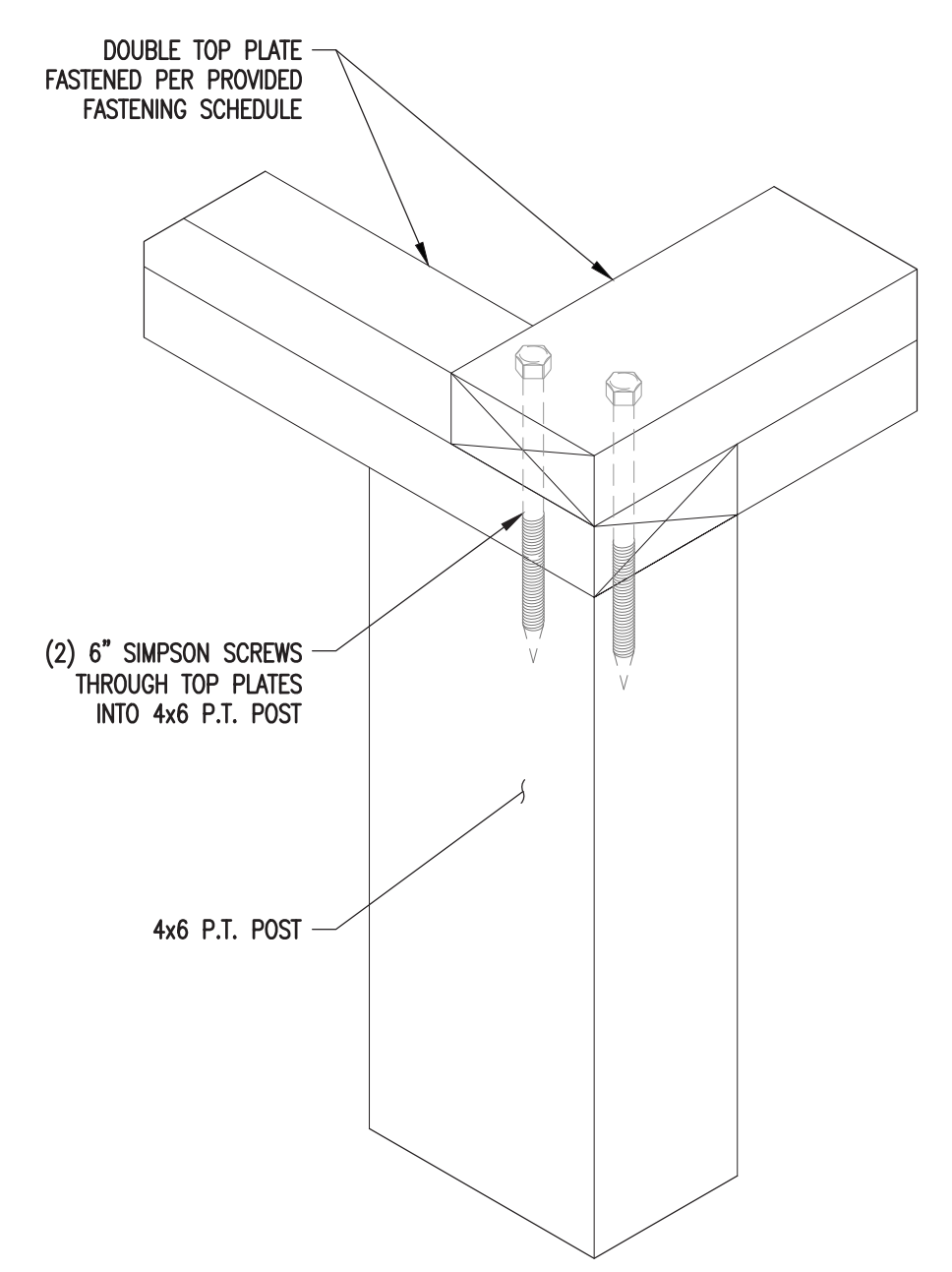
6 POST TO RIM JOIST DETAIL
 SCALE: 1-1/2"=1'-0"



5A PORCH TOP PLATE DETAIL
 SCALE: 1-1/2"=1'-0"



6A POST TO RIM JOIST DETAIL
 SCALE: 1-1/2"=1'-0"



7 OPTIONAL PORCH POST TO TOP PLATE DETAIL
 SCALE: N.T.S.

AREA FOR APPROVAL STAMPS

PROJECT: UTILITY SHED

OPTIONAL PORCH PLANS, SECTIONS & DETAILS

DONALD VAN GERVE, P.E.
 SPECIALTY STRUCTURAL ENGINEER

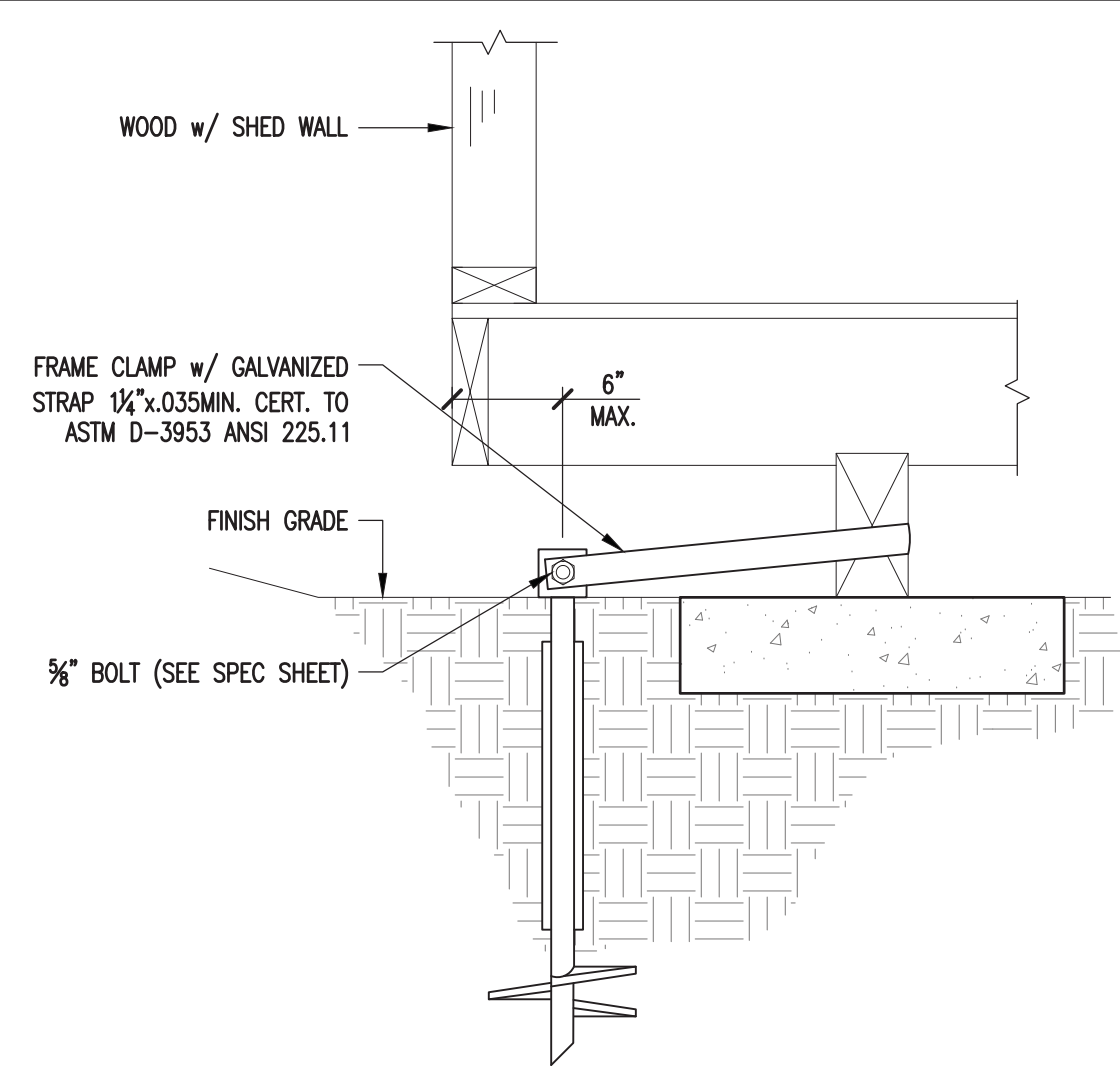


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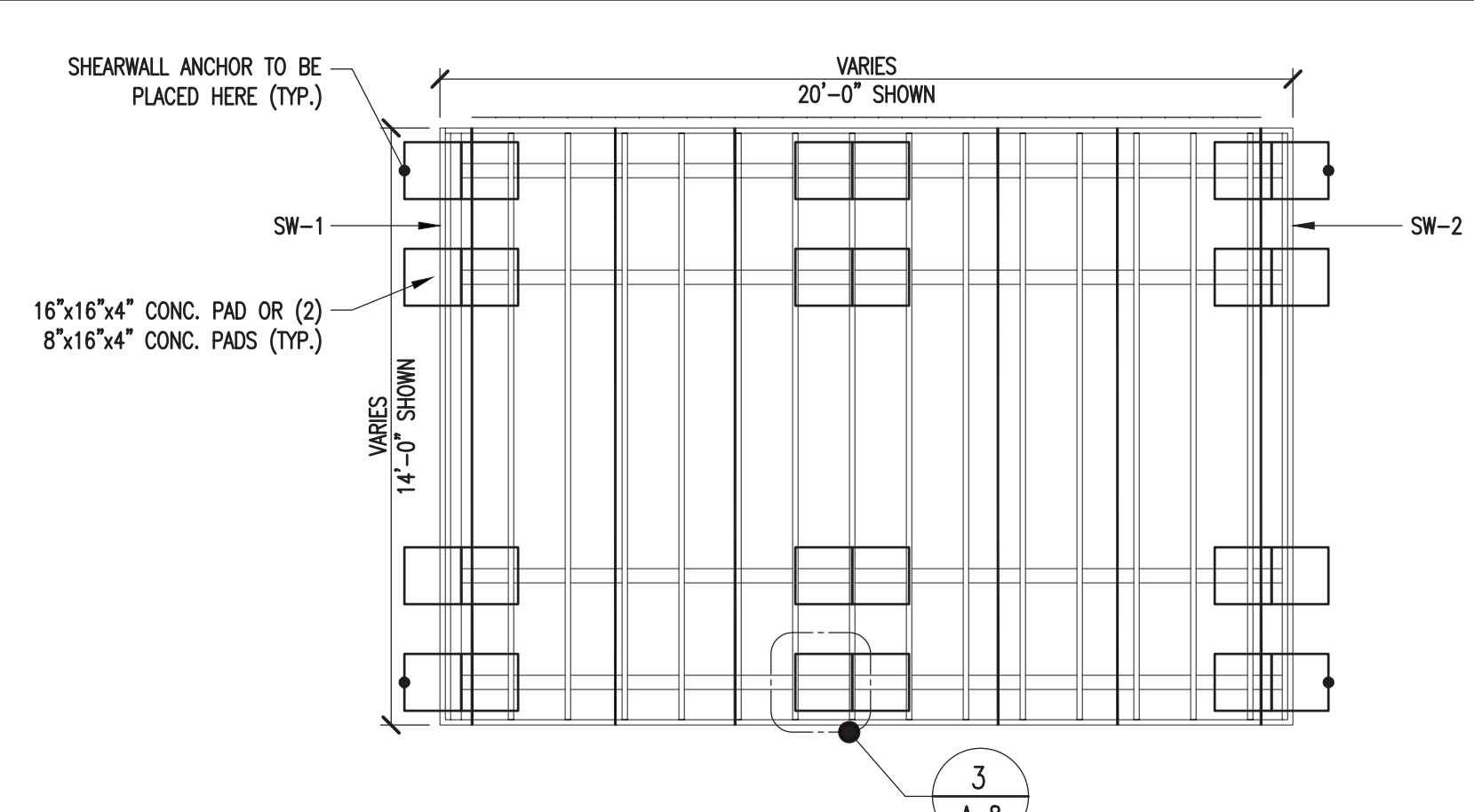
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DATE: 9.22.19
 PROJECT NO.: 19227
 DRAWING BY: JH
 CHK BY: DVG
 DWG NO.: **A-7**



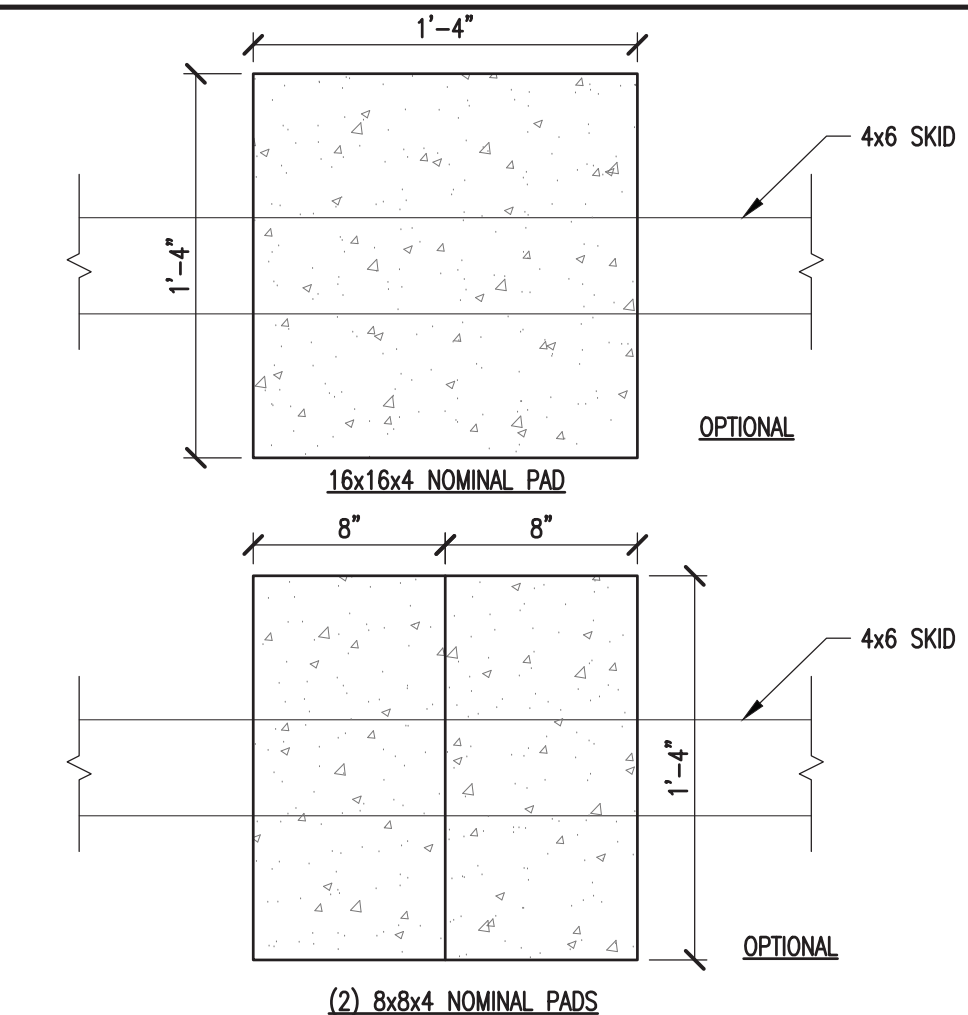


1 ANCHOR DETAIL
SCALE: 1-1/2"=1'-0"



2 FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0" (DO NOT SCALE DRAWING)

- NOTES:
1. CONCRETE PADS ARE OPTIONAL.
 2. DIMENSIONS SHOWN ARE NOMINAL.
 3. ANCHORS ARE REQUIRED MIN. (4) PER BUILDING, (1) @ EACH CORNER SHEARWALL (SW-#).
 4. REFER TO SCHEDULES ON SHEET A-8 FOR ANCHOR SPACING & OPTIONAL PAD LOCATION. SPACE OPTIONAL PADS EQUALLY.
 5. SPACE OPTIONAL PADS EQUALLY.



3 PAD DETAILS
SCALE: 1-1/2"=1'-0"

GROUND ANCHOR SCHEDULE			
MODEL #	PART #	DESCRIPTION	SOIL CLASS
M12H64	59250	36" x 3/4" ROD w/ (1) 4" HELIX & (1) 6" HELIX	4A

OPTIONAL PAD SCHEDULE FOR ALL WIND SPEEDS AND EXPOSURES

BUILDING WIDTH	NUMBER OF PADS BY LENGTH UNDER EACH SKID															
	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"	30'-0"	32'-0"	34'-0"	36'-0"	38'-0"	40'-0"
8'-0"	3	3	3	3	3	4	4	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10'-0"	3	3	3	4	4	4	4	5	5	5	5	N/A	N/A	N/A	N/A	N/A
11'-2"	2	2	3	3	3	3	3	3	3	4	4	4	N/A	N/A	N/A	N/A
12'-0"	2	2	3	3	3	3	3	3	4	4	4	4	4	N/A	N/A	N/A
14'-0"	2	3	3	3	3	3	3	4	4	4	4	4	4	5	5	5
16'-0"	2	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5

ANCHORING FOR 160 M.P.H. WIND SPEED, EXPOSURE "C" - 3/8" ANCHOR BOLT

BUILDING WIDTH	MAX. SPACING OVERTURN	NUMBER OF ANCHORS EACH SIDE WALL															
		10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"	30'-0"	32'-0"	34'-0"	36'-0"	38'-0"	40'-0"
8'-0"	3.15	5	5	6	7	7	8	8	9	10	10	11	12	12	13	14	14
10'-0"	3	5	6	6	7	8	8	9	10	11	11	12	12	13	14	14	15
11'-2"	3.98	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
12'-0"	4.01	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
14'-0"	4.10	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
16'-0"	4.18	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11

ANCHORING FOR 160 M.P.H. WIND SPEED, EXPOSURE "C" - 5/8" ANCHOR BOLT

BUILDING WIDTH	MAX. SPACING OVERTURN	NUMBER OF ANCHORS EACH SIDE WALL															
		10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"	30'-0"	32'-0"	34'-0"	36'-0"	38'-0"	40'-0"
8'-0"	4.61	4	4	5	5	5	6	6	7	7	8	8	9	9	10	10	10
10'-0"	4.30	4	4	5	5	6	6	7	7	8	8	8	9	9	10	10	11
11'-2"	5.84	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8
12'-0"	5.88	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8
14'-0"	6.01	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8
16'-0"	6.13	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DETAIL AND DIMENSIONS. ANY DISCREPANCIES BETWEEN SUCH DETAILS AND DIMENSIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION PROCEDURE AND SEQUENCE TO INSURE THE INTEGRITY OF THE BUILDING AND ITS COMPONENT PARTS DURING CONSTRUCTION.
4. THESE PLANS HAVE BEEN PREPARED PER REGULATIONS OF THE 2015 VIRGINIA BUILDING CODE. THE WORK OF ALL CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS SET FORTH IN THE AFOREMENTIONED CODE. NO DEVIATIONS FROM THE WORK SHOWN OR REASONABLY IMPLIED SHALL BE UNDERTAKEN WITHOUT THE ENGINEERS WRITTEN CONSENT - A COPY OF WHICH WILL BE FILLED WITH THE CONSTRUCTION OFFICIAL.
5. ANY CHANGES TO OR DEVIATIONS FROM THESE DRAWINGS SHALL NOT BE MADE WITHOUT WRITTEN CONSENT FROM THE ENGINEER.
6. THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE USED WITHOUT HIS CONSENT. DRAWINGS SHALL NOT BE USED FOR ISSUE OF BUILDING PERMIT UNLESS SIGNED AND SEALED BY THE ENGINEER.
7. THE OWNER AND CONTRACTOR SHALL HOLD HARMLESS THE ENGINEER FROM AND AGAINST ALL LIABILITY CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING LEGAL FEES ARISING OUT OF OR RESULTING FROM ERRORS OR OMISSIONS IN THE PERFORMANCE OF THE WORK BY THE CONTRACTOR. ALL WORK AND MATERIAL SHALL MEET THE REQUIREMENTS OF ALL LOCAL AND STATE BUILDING CODES. THE DRAWING SHOW THE GENERAL ARRANGEMENTS AND EXTENT OF THE WORK. AS THE WORK PROGRESSES, THE OWNER AND THE CONTRACTOR, AT NO EXTRA COSTS, SHALL MAKE MODIFICATIONS TO MAKE THE PARTS ALIGN.
8. CONTRACTORS SHALL CHECK AND VERIFY ALL PLAN DIMENSIONS AND CONDITIONS BEFORE PROCEEDING CONSTRUCTION. HE SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER FOR CORRECTION PRIOR TO BEGINNING ANY WORK. THE DISCOVERY OF DISCREPANCIES AFTER THE BEGINNING OF WORK WILL BE EVIDENCE OF FAULTY WORK AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DO NOT SCALE DRAWINGS. ALL WRITTEN DIMENSIONS GOVERN.
9. THE CONTRACTOR FOR THIS PROJECT SHALL INCLUDE ALL MATERIALS AND LABOR REQUIRED TO COMPLETE THE TOTAL PROJECT. THE CONTRACTOR SHALL FURNISH AND PAY FOR ALL MATERIALS, TOOLS, EQUIPMENT, LABOR, MACHINERY, TRANSPORTATION, HEAT, WATER, UTILITIES, AND ALL OTHER FACILITIES AND SERVICES REQUIRED FOR THE SAFE AND PROPER EXECUTION AND COMPLETION OF THE WORK. THE ENGINEER SHALL BE THE INTERPRETER OF THE CONTRACT DOCUMENTS.
10. THE DOCUMENTS SHOWN AN OVERVIEW OF THE WORK REQUIRED UNDER THIS CONTRACT AND RELATED REQUIREMENTS AND CONDITIONS THAT WILL IMPACT THE PROJECT. ALL DRAWINGS ARE COMPLEMENTARY. THE DRAWINGS GENERALLY SHOW THE INTENT OF THE OVERALL COMPLEXITY AND CONCEPTS OF THE PROJECT, AND DO NOT NECESSARILY SHOW ALL DETAILS AND CONDITIONS.
11. ALL NEW INTERIOR CONCRETE SLABS AND FOUNDATION WALLS AND FOOTING SHALL HAVE SOLID POISONING UNDER NEW WORK AND SHALL BE INSTALLED BY A LICENSED CONTRACTOR. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL STATE AND DEPARTMENT OF AGRICULTURE, STRUCTURAL PEST CONTROL DIVISION REGULATIONS, RULES, DEFINITIONS AND REQUIREMENTS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND MAINTAINING ALL EXISTING SETBACKS, EASEMENTS, AND ANY DEED RESTRICTIONS.
13. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CLEANUP AND SHALL INCLUDE THE SITE, AND THE BUILDING. THE ENTIRE PROJECT SHALL BE LEFT IN A NEW, CLEAN CONDITION.

PROJECT: UTILITY SHED

FASTENING SCHEDULE / WIND LOADING

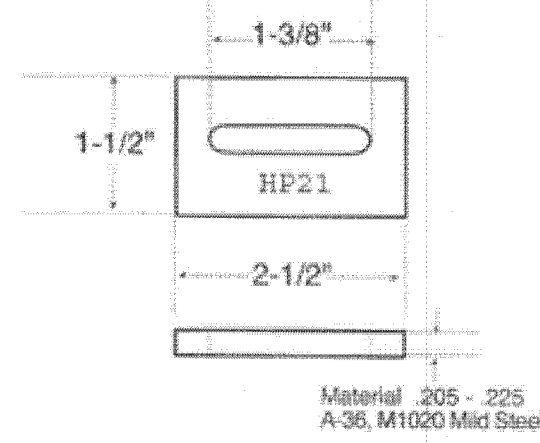
DONALD VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER

ENGINEERING SERVICES PROVIDED FOR:
PREMIER PORTABLE BUILDINGS
317 EAST STATE LINE ROAD
SOUTH FULTON, TN 38257
WWW.PREMIERBUILDINGS.US

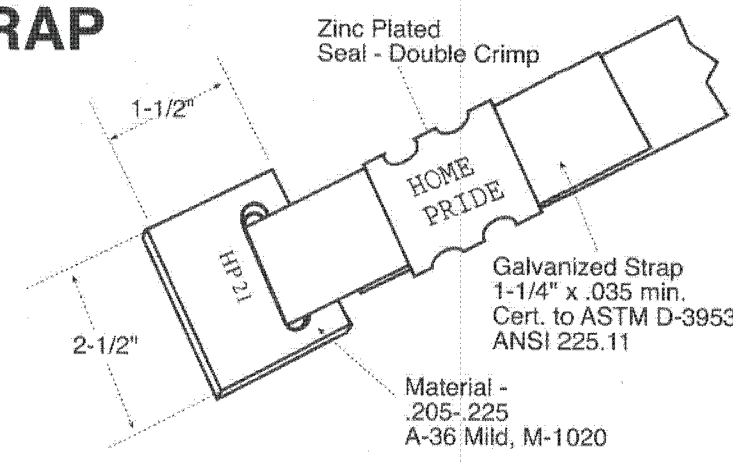
REVISION	DESCRIPTION	DATE	BY

DATE: 9.22.19
PROJECT NO.: 19227
DRAWN BY: JH
CHK BY: DVG
DWG NO.: A-8

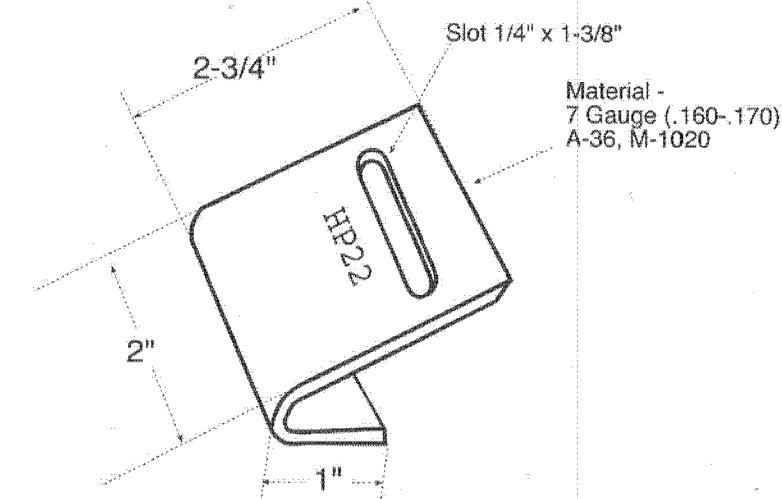
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SINGLE SLOT
BUCKLE**



**HP21-(6 thru 15)
SINGLE BUCKLE
W/STRAP**

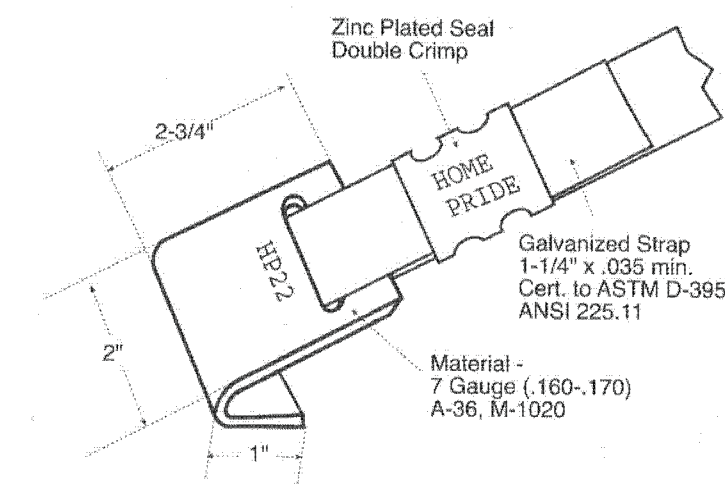


**HP22
FRAME
CLAMP**

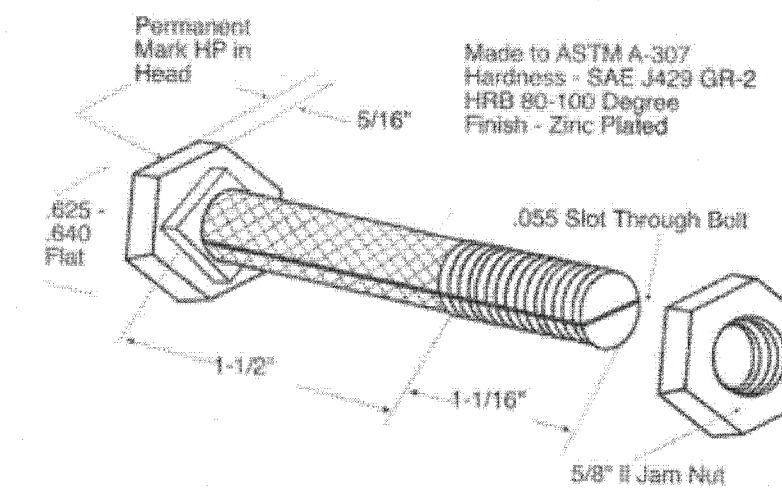


8

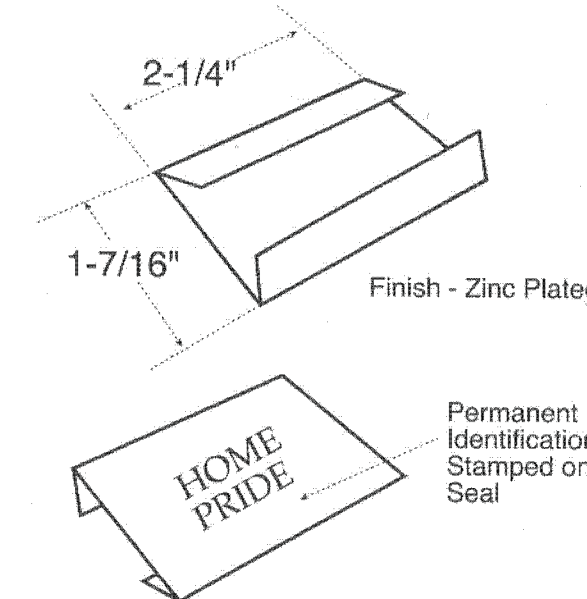
**HP22-(6 thru 15)
FRAME CLAMP
W/STRAP**



**HPAB
ANCHOR
BOLT & NUT**



**HPSS
STRAP SEAL**



INSTALLATION INSTRUCTIONS:
When using seals to extend the strap:
1. Overlap a minimum of 8".
2. Use two seals placed together.
3. Crimp each seal twice.

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PROJECT: UTILITY SHED

PRODUCT CUT SHEETS

DONALD VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER

ENGINEERING SERVICES PROVIDED FOR:
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317 EAST STATE LINE ROAD
SOUTH FULTON, TN 38257
WWW.PREMIERBUILDINGS.US

REVISION	DESCRIPTION	DATE	BY
▲			
▲			
▲			
▲			

DATE: 9.22.19
PROJECT NO.: 19227
DRAWING BY: JH
CHK BY: DVG
DWG NO.: **A-9**

