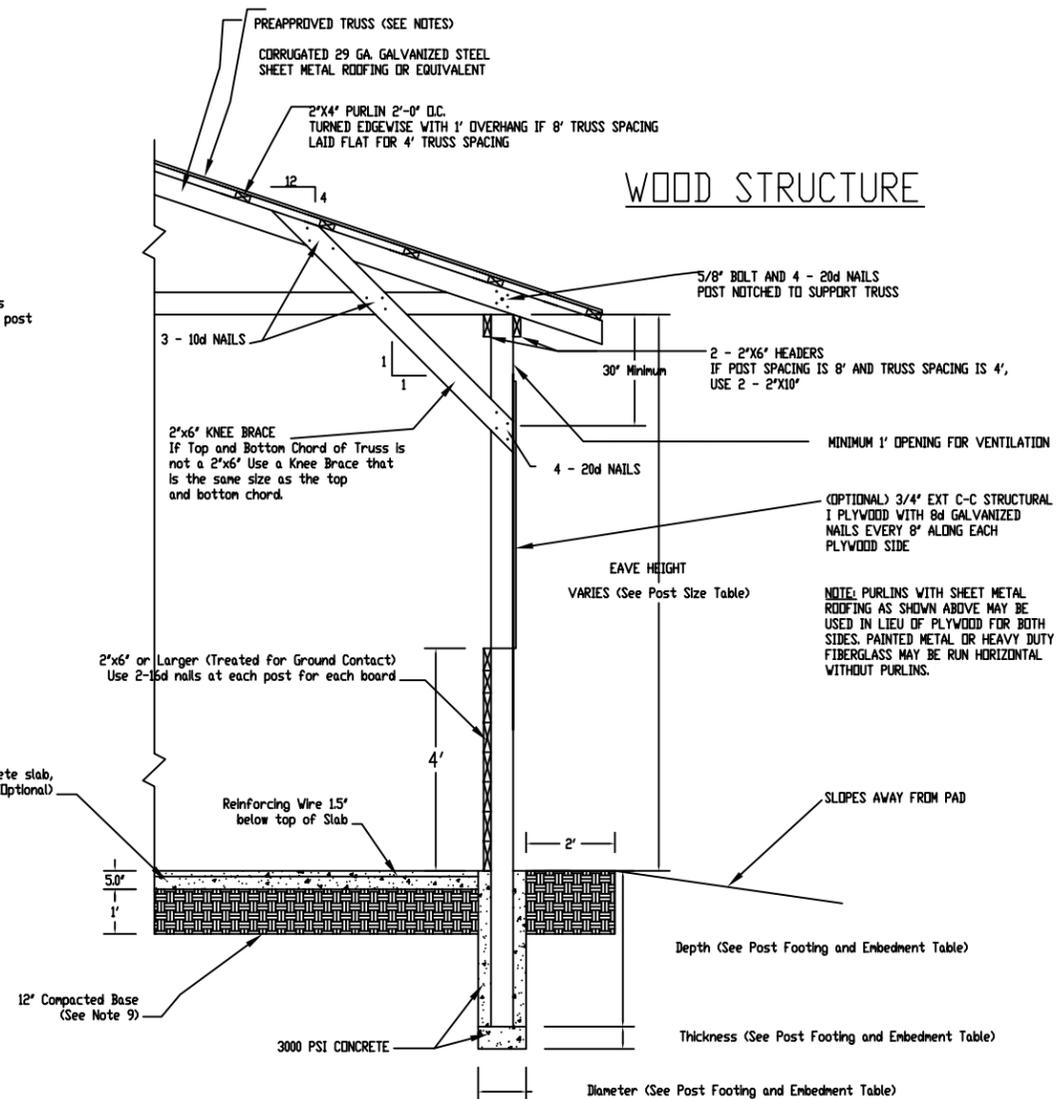
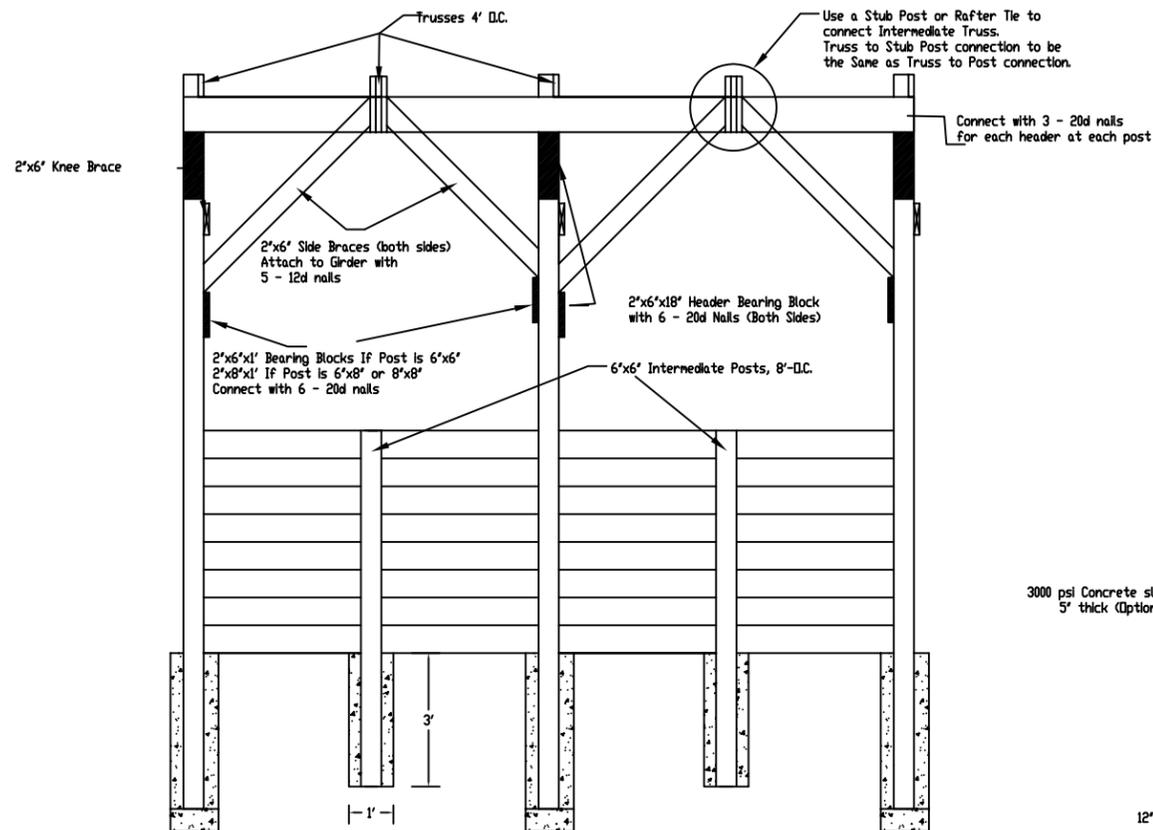


# WOOD STRUCTURE

SIDE VIEW FOR 8' POST SPACING WITH 4' TRUSS SPACING.



# WOOD STRUCTURE

- All preservative pressure treated (P.P.T) posts shall be Southern Pine No. 2 SR Grade, surfaced green. All P.P.T lumber shall be Southern Pine No. 2 KD, 19% M.C. or better. All other lumber shall be Southern Pine No. 2 Grade or better.
- All Preservative Pressure Treated Posts shall be treated with 0.6 pcf of Chromated Copper Arsenate (CCA), 0.6 pcf of Alkaline Copper Quaternary (ACQ), or 12 pcf Creosote.
- All Preservative Pressure Treated Lumber shall be treated for ground contact with 0.4 pcf of Chromated Copper Arsenate (CCA), 0.4 pcf of Alkaline Copper Quaternary (ACQ), or 10 pcf Creosote.
- All fasteners shall be hot-dip galvanized according to ASTM A153 with the exception of 1/2" diameter bolts or greater. All connecting hardware shall be hot-dip galvanized according to ASTM A653, Class G185 sheet with 1.85 ounces of zinc coating per square foot minimum.
- All nails shall be ring, spiral, or screw shanks. All nails shall be located at a sufficient edge and end distance to avoid splitting the wood member. If pilot holes are drilled, the holes shall be no larger than 3/4 of the diameter of the nail.
- Knee braces are to be used on all post to truss connections. Knee braces shall be the same size as the top and bottom truss chords, shall be on a 1:1 slope (45° angle), and shall be nailed to both the top and bottom truss chords.
- Trusses and anchors used shall be from a design stamped by a Registered Professional Engineer. Trusses shall be designed for Dead Load plus the following:  
Uniform roof live load of 20 psf entire truss  
Uniform roof live load of 30 psf half truss  
Uniform loads from 90 mph wind  
Truss Bracing shall be as recommended by the truss manufacturer.

Span	Post Spacing	Eave Height	CL, ML, CH, MH				SW, SP, SM, SC, GM, GC			
			Diameter	Thickness	Depth	Concrete	Diameter	Thickness	Depth	Concrete
32'	4'	10'	12"	4"	4.0'	2.4 cf	12"	4"	3.5'	2.2 cf
32'	4'	12.5'	12"	4"	4.5'	3.0 cf	12"	4"	4.0'	2.4 cf
32'	4'	15'	12"	4"	5.0'	2.7 cf	12"	4"	4.5'	2.4 cf
36'	4'	10'	14"	4"	4.0'	3.8 cf	12"	4"	3.5'	2.2 cf
36'	4'	12.5'	14"	4"	4.5'	4.1 cf	12"	4"	4.0'	2.4 cf
36'	4'	15'	14"	4"	5.0'	4.1 cf	12"	4"	4.5'	2.4 cf
40'	4'	10'	14"	5"	4.0'	3.8 cf	12"	4"	3.5'	2.4 cf
40'	4'	12.5'	14"	5"	4.5'	4.3 cf	12"	4"	4.0'	2.4 cf
40'	4'	15'	14"	5"	5.0'	4.3 cf	12"	4"	4.5'	2.4 cf
32'	8'	10'	18"	6"	4.5'	7.8 cf	14"	5"	4.0'	4.1 cf
32'	8'	12.5'	18"	6"	5.0'	8.4 cf	14"	5"	4.5'	4.1 cf
32'	8'	15'	18"	6"	5.5'	8.6 cf	14"	5"	5.5'	4.1 cf
36'	8'	10'	18"	6"	4.5'	0.28 cy	16"	5"	4.0'	4.6 cf
36'	8'	12.5'	18"	6"	5.0'	7.6 cf	16"	5"	4.5'	5.7 cf
36'	8'	15'	18"	6"	5.5'	8.6 cf	16"	5"	5.0'	5.7 cf
40'	8'	10'	20"	7"	4.5'	10.0 cf	16"	6"	5.0'	5.4 cf
40'	8'	12.5'	20"	7"	5.0'	11.1 cf	16"	6"	5.0'	5.9 cf
40'	8'	15'	20"	7"	5.5'	11.3 cf	16"	6"	5.0'	5.9 cf

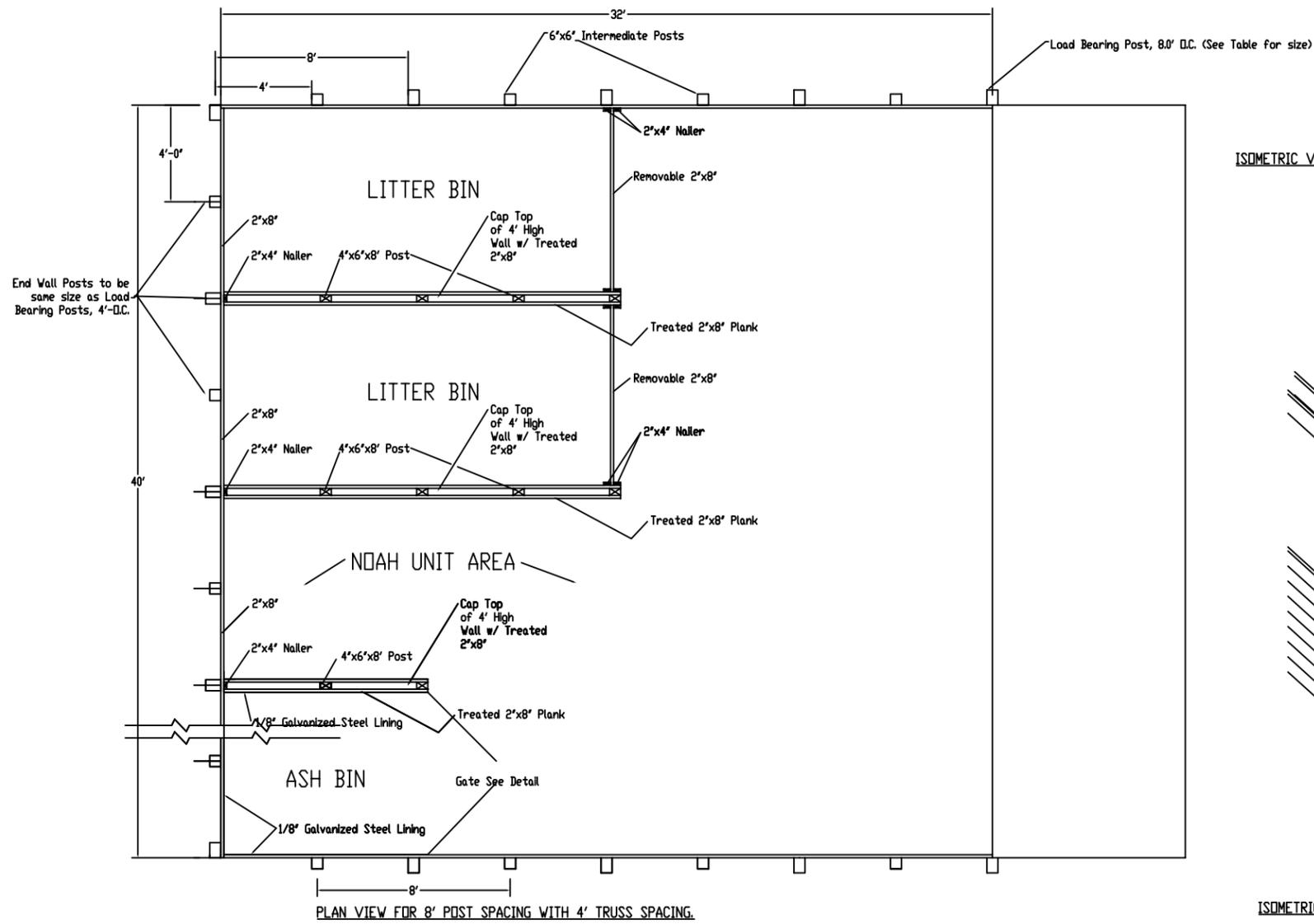
Eave Height	32' Span		36' Span		40' Span	
	4' Spacing	8' Spacing	4' Spacing	8' Spacing	4' Spacing	8' Spacing
10.0'	6'x6'	6'x6'	6'x6'	6'x8'	6'x6'	6'x8'
12.5'	6'x6'	6'x8'	6'x6'	6'x8'	6'x6'	6'x8'
15.0'	6'x8'	8'x8'	6'x8'	8'x8'	6'x8'	8'x8'

- When using 4' Post Spacing and 4' Truss Spacing, each truss shall be connected to a notched post. Side braces will not be required. Knee braces are required on all truss to post connections.
  - The compacted base shall be SC, SM, GC or GM. The base shall extend 2' from the edge of the building and have a 1' thickness. All postholes and posts shall not be installed until after the base has been constructed. If the optional concrete slab is used the compacted base can be ML,CH,ML,CL or any of the S or G groups.
  - If the optional 5' thick concrete slab is used, crack control joints shall be set at no more than 25' apart and shall have a length/width ratio of 1.0 to 1.25. Control joints around posts shall have a triangular or diamond shape.
- Reinforcing wire shall be 12x12-W9xV9 or a reinforcing wire that has an equivalent steel cross-sectional area per foot (e.g. 6x6-W5.5xV5.5, 4x4-W2.9xV2.9)

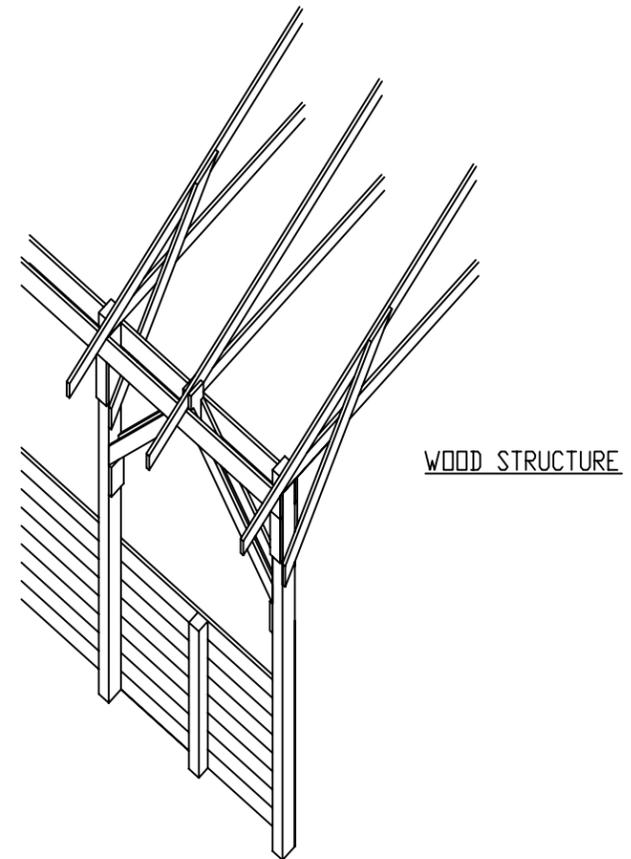
Date	Designed	Drawn	Checked	Approved
REV. 11-15-2006	Vovey Austin	Vovey Austin	Vovey Austin	Vovey Austin

NOAH UNIT AND LITTER STORAGE STRUCTURE

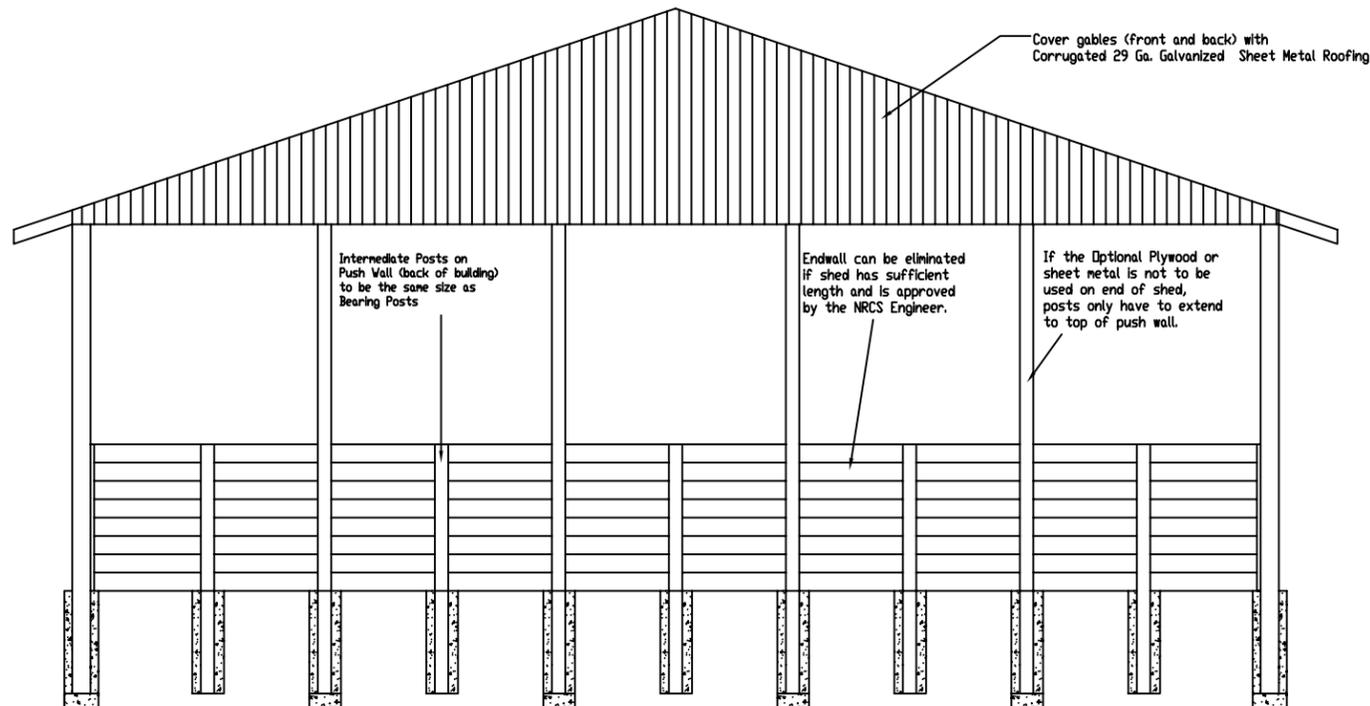
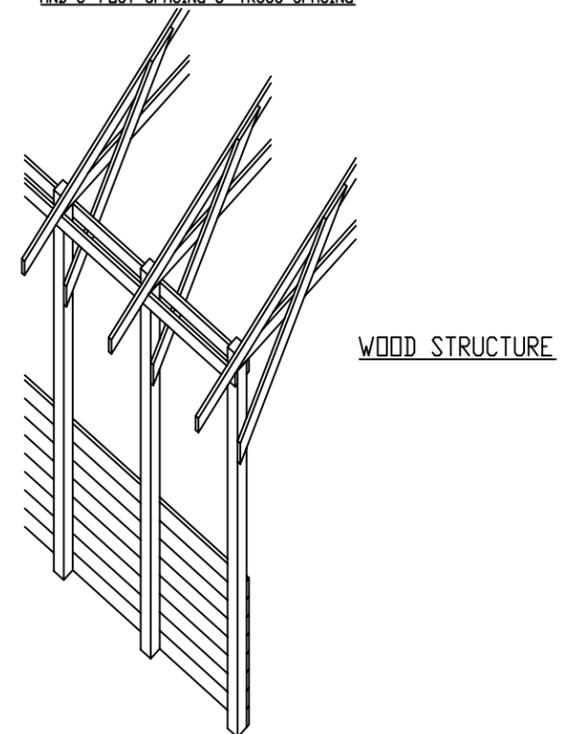




ISOMETRIC VIEW FOR 8' POST SPACING WITH 4' TRUSS SPACING.



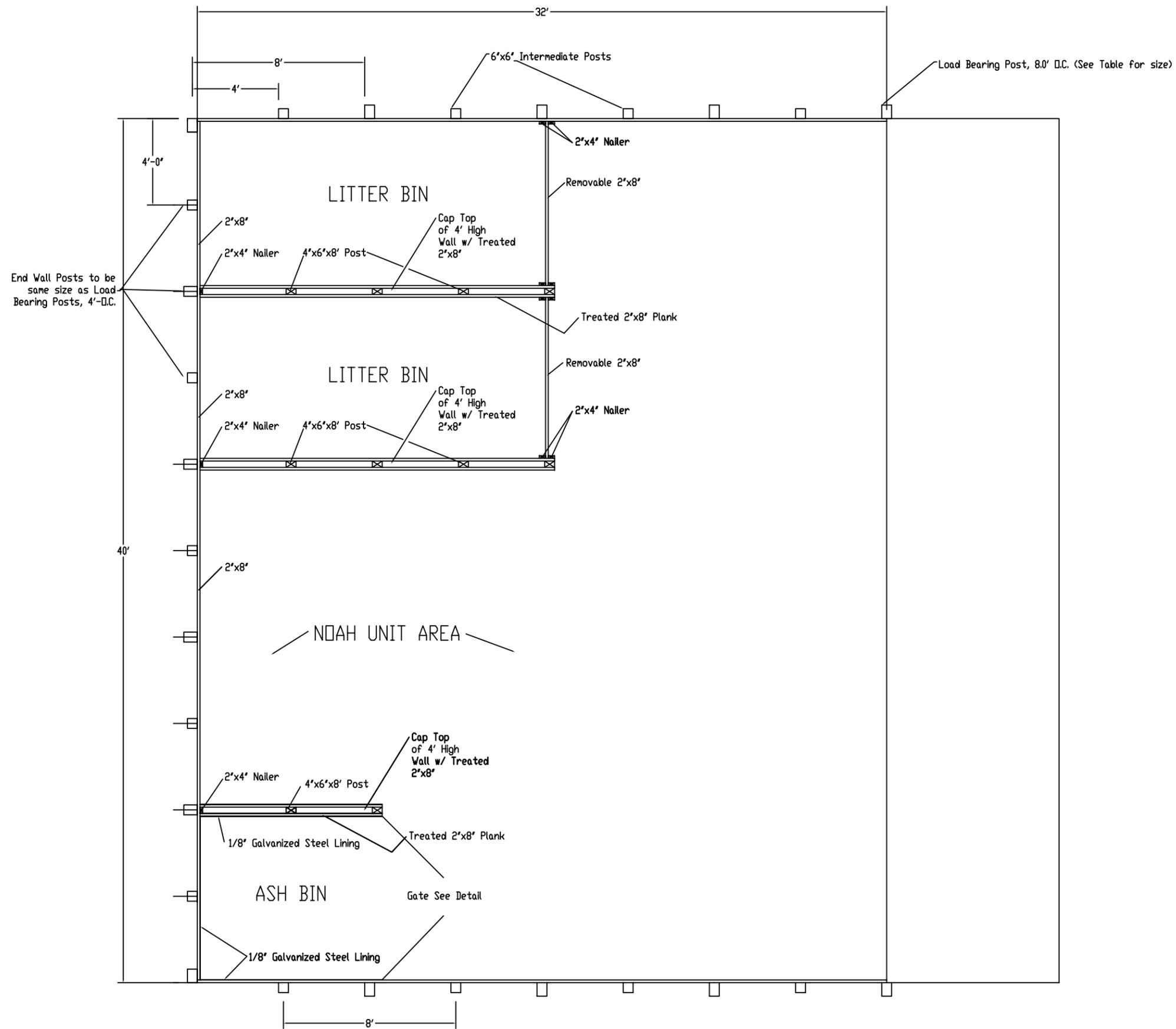
ISOMETRIC VIEW FOR 4' POST SPACING WITH 4' TRUSS SPACING AND 8' POST SPACING 8' TRUSS SPACING



Date	Designed	Drawn	Checked	Approved
REV. 11-15-2016	Vovey Austin	Vovey Austin	Vovey Austin	
REV. 11-15-2016				

NOAH UNIT AND LITTER STORAGE STRUCTURE





PLAN VIEW FOR 8' POST SPACING WITH 4' TRUSS SPACING.

Date	Designed	Drawn	Checked	Approved
REV. 11-15-2016	Vovey Austin	Vovey Austin		
REV. 11-15-2016				

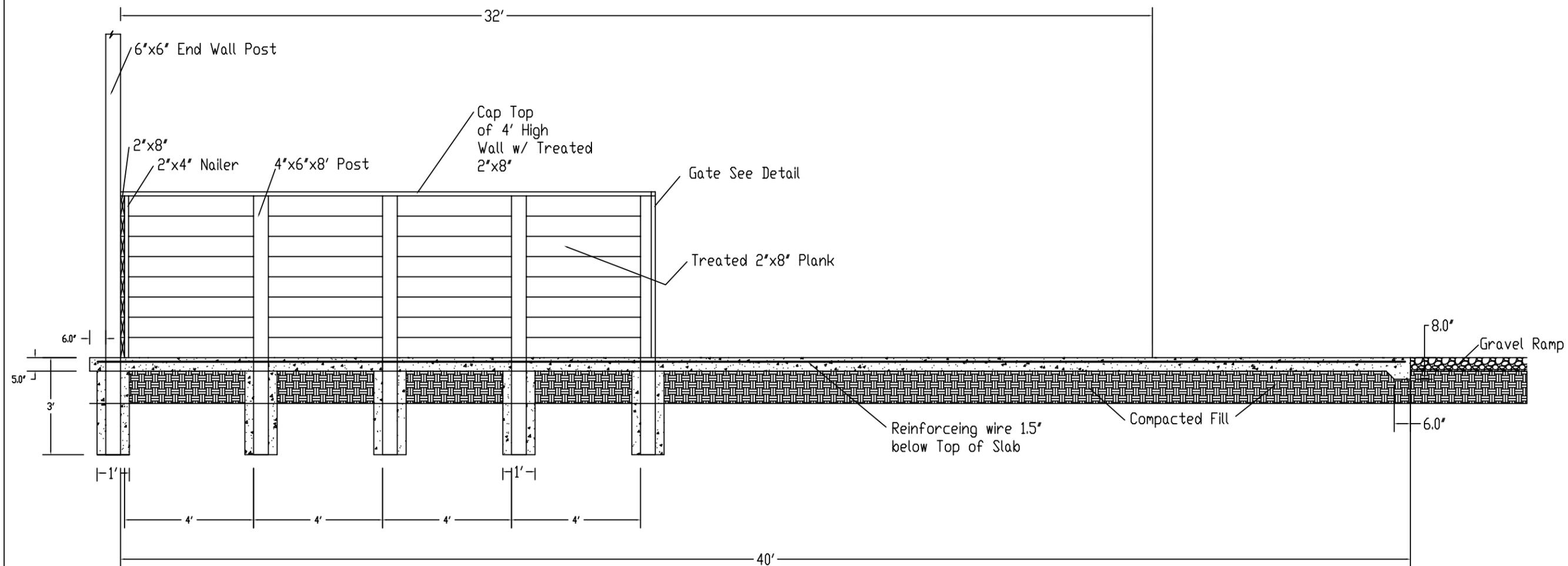
NOAH UNIT AND LITTER STORAGE  
STRUCTURE



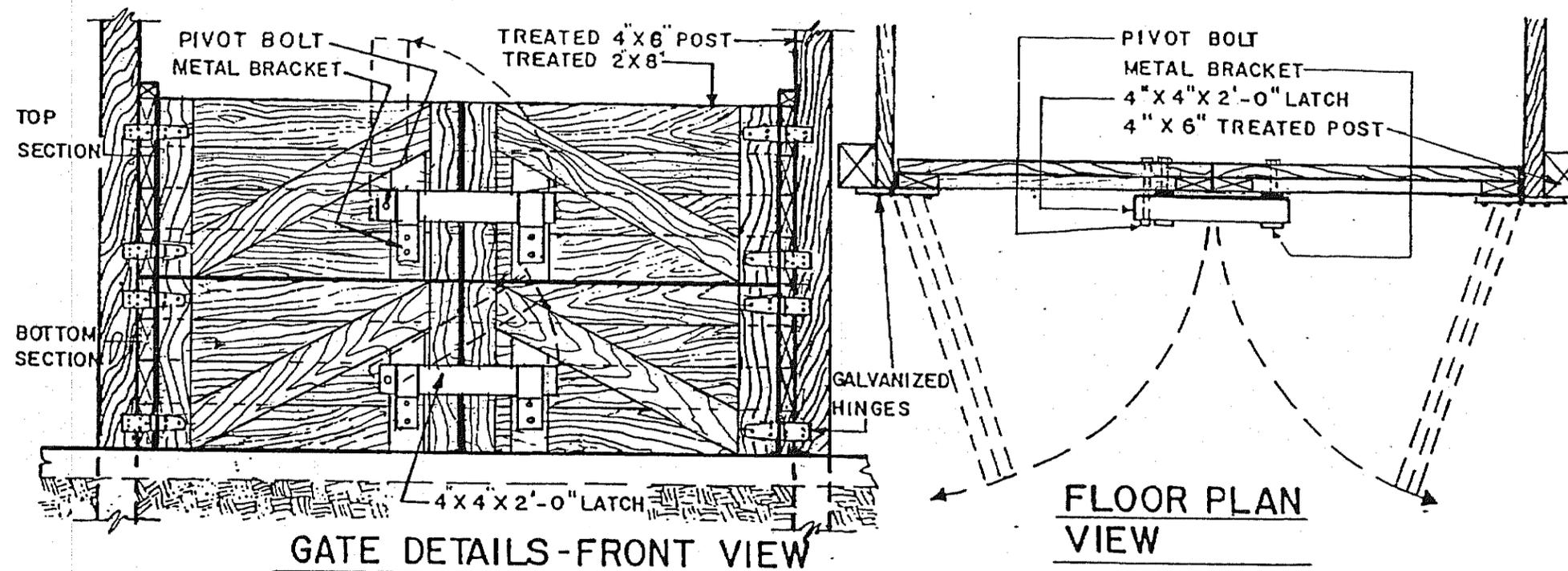
File No.

Drawing No.  
AR-ENG-410

Sheet 3 of 4



SIDE VIEW



Date	Designed	Drawn	Checked	Approved
REV. 11-15-2006	Vovey, Austin	Vovey, Austin		
REV. 11-15-2006	Vovey, Austin	Vovey, Austin		

NOAH UNIT AND LITTER STORAGE STRUCTURE

