14'x24' Rectangle Alpine Pavilion for: All notes do not necessarily apply due to different requirements on each project. This plan is intended to reflect only the structural

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Drawing Index

Page 1 - Elevation

Page 2 - Post Layout Plan

Page 3 - Roof Framing

Page 4 - Cross Sections, Details

Page 5 - 11 - Details

GENERAL NOTES

design of this building. The contractor shall review all applicable local, state, and federal building codes prior to the start of construction to ensure building conformance. Timber Tech Engineering, Inc. is not responsible for information pertaining to this project if not shown on drawings or listed below. Revisions to the plans shall be approved by engineer of record.

DESIGN REQUIREMENTS

- 1. Governing Code: including, not limited to: IBC 2009
- 2. Dead Loads:

A. Roof	5	pef
B. Floor	n/a	F
C. Other	n/a	pε

- 3. Live Loads: A. Roof (See also note #4) B Floor n/a pef n/a pef
- C. Other 4. Snow Loads:
- A. Ground Snow (Pg) 45 B. Flat Roof Snow (Pf) 30
- C. Snow Exposure Factor (Ce) 1.0 D. Snow Load Importance Factor (I)
- E. Unbalanced Snow i. Windward Roof
- 0 paf ii. Leeward Roof 36 pef 5. Wind Load
- A. Basic Wind Speed (V) 142 mph B. Wind Load Importance Factor (I) .77
- C. Wind Exposure Category D. Enclosure Category
- Open E. Components and Cladding: +57 pet/-70 pet
- 6. Earthquake Design Data: (Analysis based on equivalent lateral force procedure)
- A. Spectral Response Acceleration at 1 sec, S
- B. Spectral Response Acceleration at short periods, S 0.99
- C. Seismic Occupancy Category
- D. Occupancy Importance Factor, I 1.0 Site Class
- Seismic Design Category D G. Basic Structural System
- Cantilevered Column: Timber Frame
- H. Response Modification Factor (R)
- I. Deflection Amplification Factor (Cd) 1.5

ADDDDDMATICALD

ADDITEVIA I IUNO					
	•	at	mil.	millimeter	
	bm.	beam	min.	minimum	
	conc.	concrete	nte	not to scale	
	cont.	continuous	o/c	on center	
	dia.	diameter	pcf	pounds per cubic foot	
	exist.	existing	pl.	plywood	
	fir.	floor	pef	pounds per square foo	
	ft.	foot/feet	pai	pounds per square incl	
	Qθ.	gauge	regid.	required	
	hdw.	hardware	8.8	stainless steel	
	hdr.	header	atL	steel	
	ist.	ioist	thk.	thick	
	kai	kips per square inch	trd.	treated	
	lbs.	pounds	typ.	typical	
	mex.	maximum	w/	with	
			mfr.	manufacturer	
			mul.	Herial Color Col	

1. General Requirements

- A. Structural wood members and connections shall be of sufficient size or capacity to carry all design loads without exceeding the allowable design values specified in 'The National Design specification for Wood Construction' (NDS), 2005 edition, and its "Supplement" by the American Forest and Paper Association (AF+PA).
- B. Wood members used for load supporting purposes shall have the grade mark of a lumber grading agency certified by the American Lumber

2 Dimension Lumber

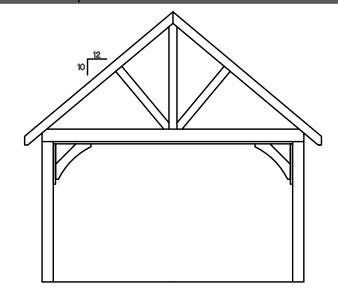
- A. All lumber species, graded visually or mechanically, shall comply with the NDS by AF+PA, and the 'American Softwood Lumber Standard' (PS 20-94) by the U.S. Department of Commerce.
- B. The minimum grade and species for posts, beams, headers, rafters, and other primary structural members shall be Dense Select Structural Southern Pine, unless specified otherwise.
- C. Lumber Noted as Cedar is this plan shall be Rough Sawn #1 Western Cedar except for header and brace material shall be Rough Sawn Select Structural Western Cedar
- D. Lumber used for secondary framing shall be #1 Southern Yellow Pine (SYP) or better, unless noted otherwise
- E. Mechanically laminated columns shall conform with ANSI/ASAE EP 559.
- 3. Pressure Preservative Treatment (PPT)
- A. Pressure treatment to be performed according to the American Wood Preservers' Association (AWPA) standards.
- B. Pressure treated members shall have the inspection mark of an agency accredited by the American Lumber Standards Committee.
- C. Preservative: Ammonia Copper Quaternary ammonia (ACQ) or Copper Boron Azole (CBA)
- D. Minimum waterborne treatment retention shall be 0.4 pcf for members above ground, and 0.6 pcf for members in contact with earth.
- E. Treat indicated items and the following:
- 1. Wood members exposed to weather or insect infestation.
- 2. Wood members in direct contact with earth or concrete
- 3. Wood members exposed to high moisture content (>19% for dimension lumber, >16% for glued laminated timber).
- 4. Wood members less than 12 inches above grade.
- F. Field treat newly exposed wood where cutting, drilling or notching pressure treated lumber.
- Q. Metal connectors used in treated wood shall be hot-dip galvanized as per ASTM A153-01a.
- 4. Connections shall be designed and constructed according to the NDS by AF+PA and shall conform to the following:
- A. The minimum connection shall be two 12 penny nalls, or as detailed on the drawings.
- B. Other connections as per standard construction practice.

Design Reaction Chart			
Max. uplift at column base	1250 lb		
Max. downward force at column base	6300 lb		
Max. shear at column base	925 lb		

TTE DRAWING NUMBER: E250-12

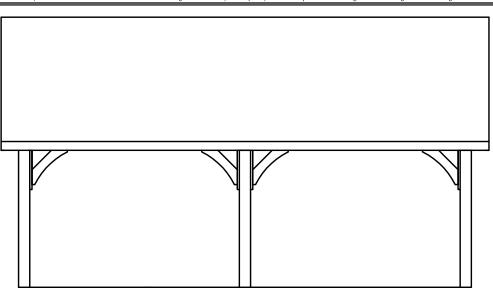
JOB NUMBER: E250-12 PAGE: 1 OF 11 PROJECT: STANDARD PLANS FOR 14'x24' ALPINE PAVILION

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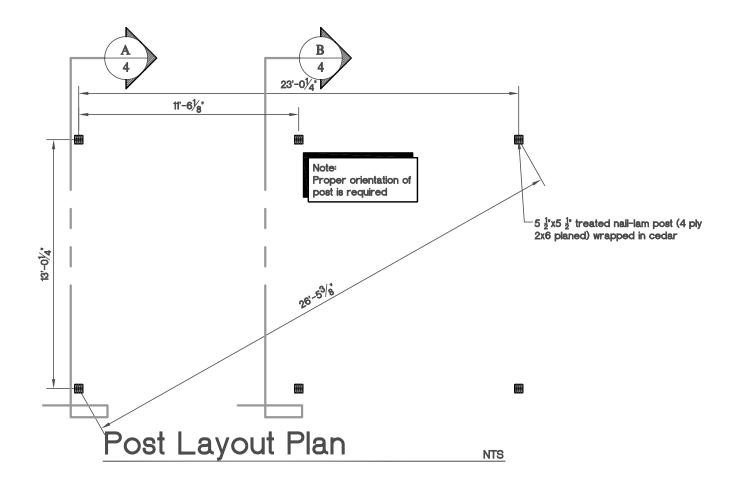


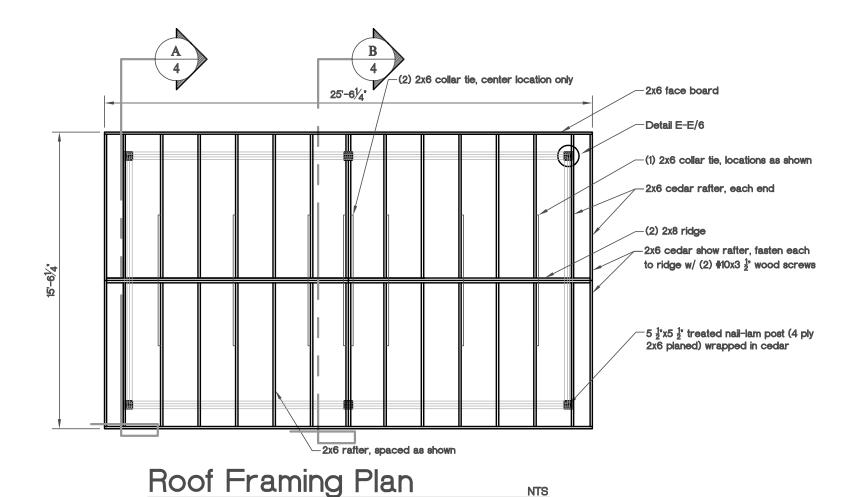
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Side Elevation

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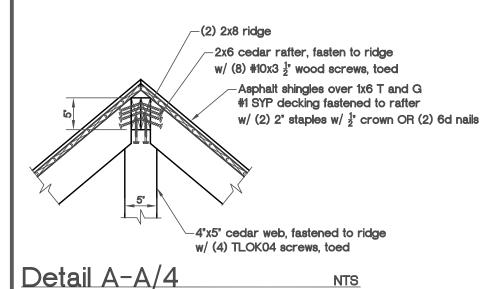
Detail E-E/6 Detail A-A/4 (2) 2x8 ridge 2x6 cedar rafter Asphalt shingles over 1x6 T and G decking Asphalt shingles over 1x6 T and G decking Detail G-G/7 Detail B-B/4 2x6 rafters, approx. 24" o/c 4"x5" cedar web Detail F-F/6 (1) 2x6 collar tie Detail C-C/5 2x6 face board 2x6 face board (3) 2x8 header (outside (3) 2x8 header (outside plies to be cedar, center plies to be cedar, center Detail D-D/6 ply to be DSS SYP) ply to be DSS SYP) 5 ½x5 ½ nail-lam post 5 ½x5 ½ nail-lam post wrapped in cedar wrapped in cedar 13'-01/4" 13'-01/4" Detail H-H/7

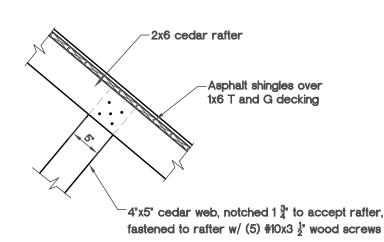
Cross Section A/4

NTS

Cross Section B/4

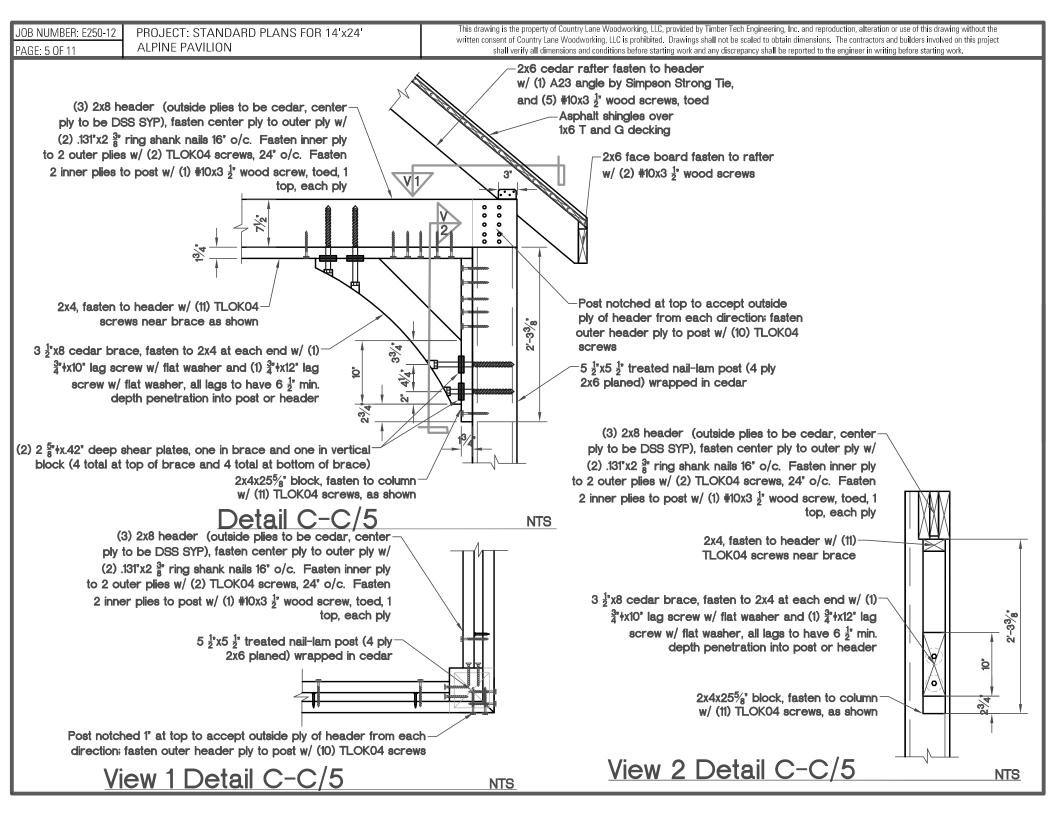
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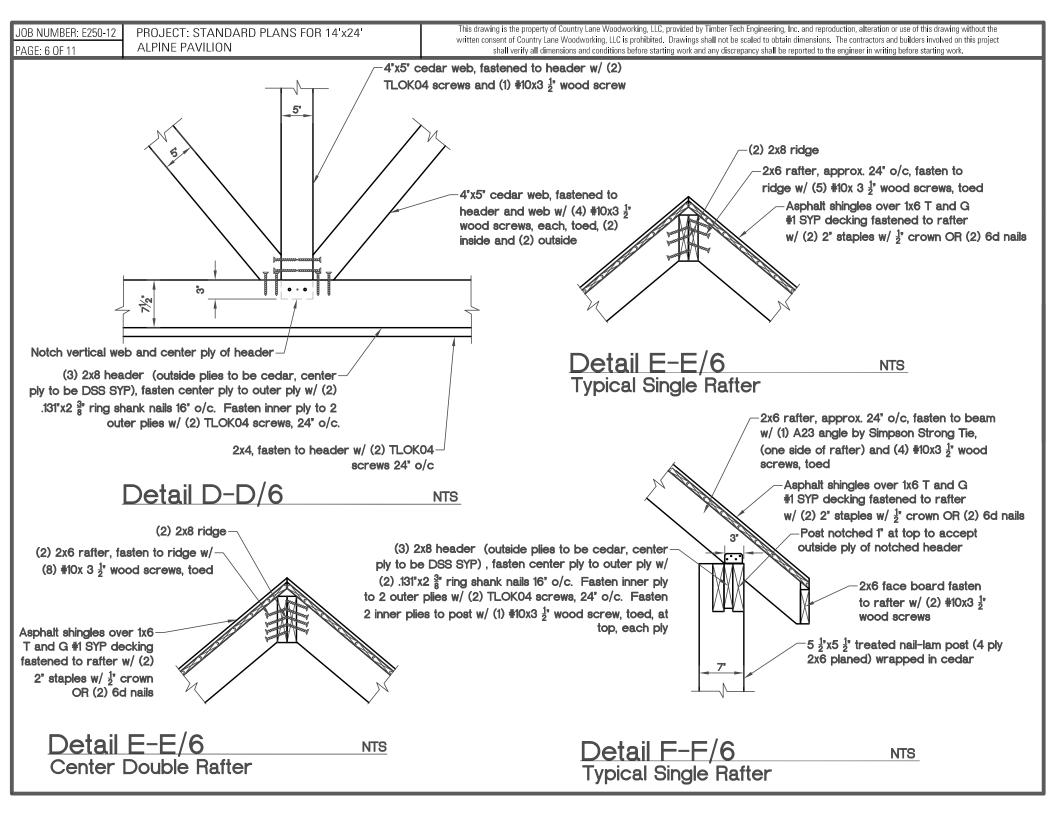


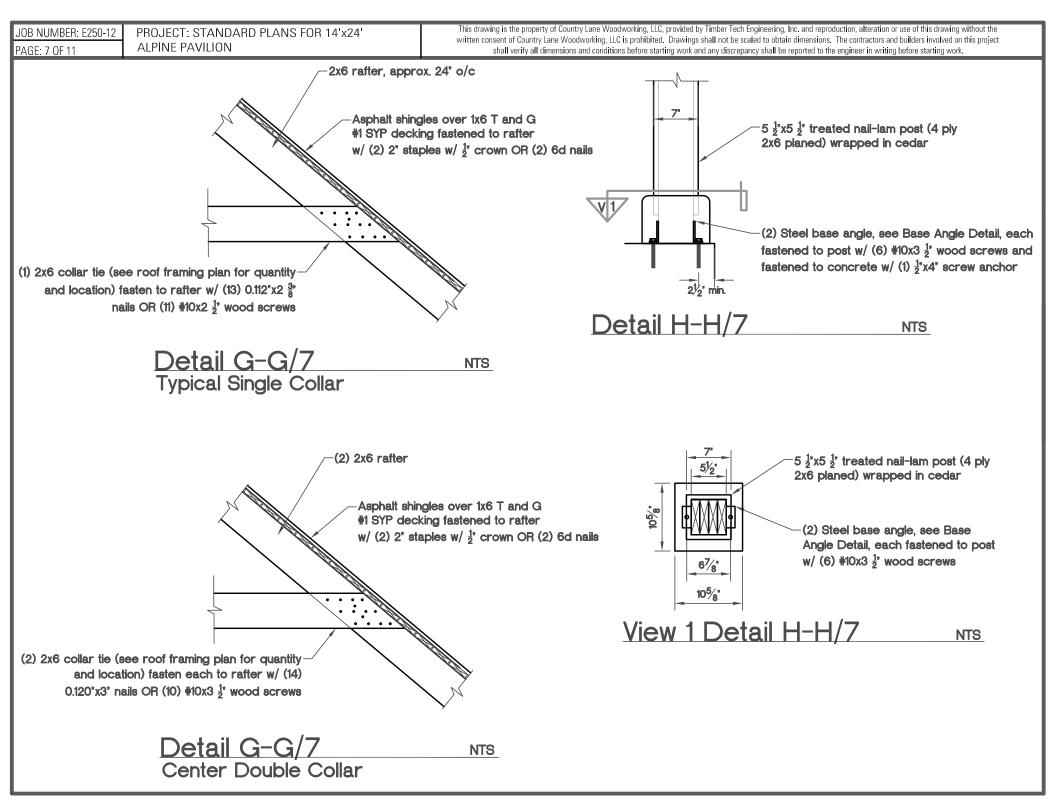


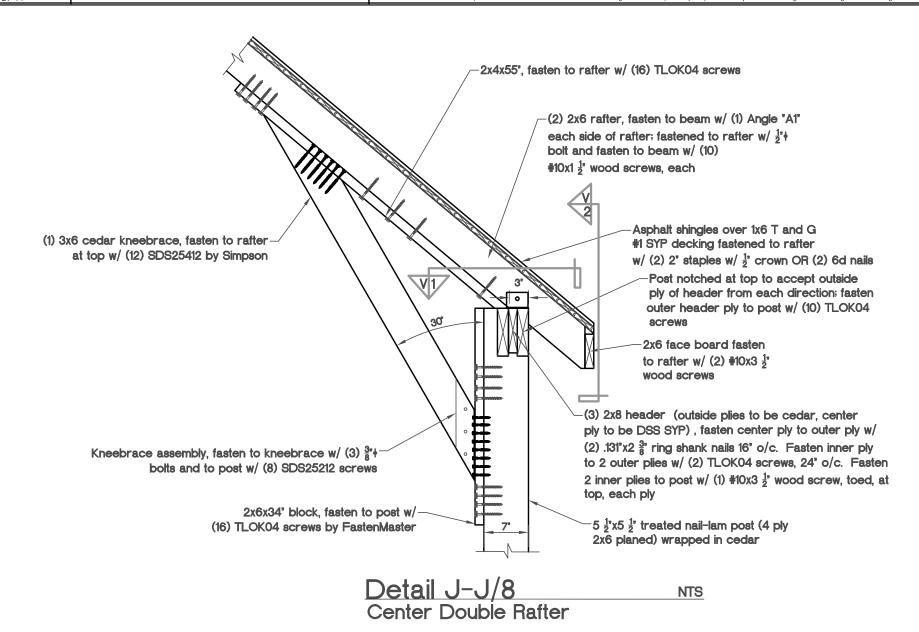
Detail B-B/4

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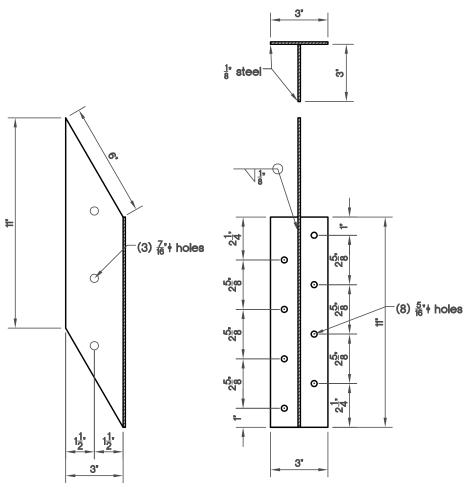


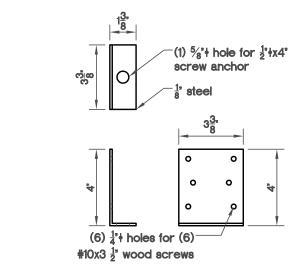




JOB NUMBER: E250-12 PAGE: 10 OF 11 PROJECT: STANDARD PLANS FOR 14'x24' ALPINE PAVILION

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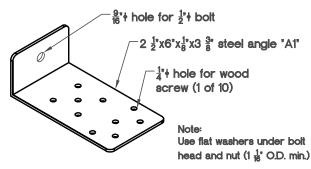


Base Angle Detail

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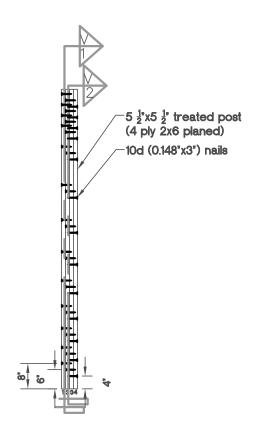
"Kneebrace" Assembly

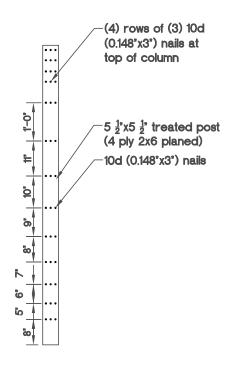
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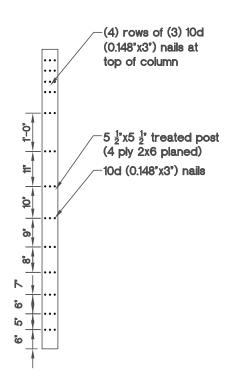


Angle "A1"

NTS







Nail-Laminated Post Nailing Detail

NTS View 1 Nailing Detail for Ply 2 to Ply 3 View 2 Nailing Detail for Ply 1 to Ply 2 Nailing Detail for Ply 1 to Ply 2