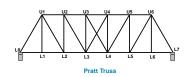
# STRUCTURAL CONSIDERATIONS FOR TRUSSES

Introduction



Albertan

Albertan

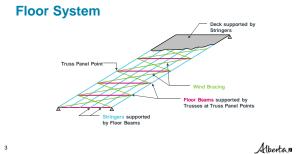
1

1

0

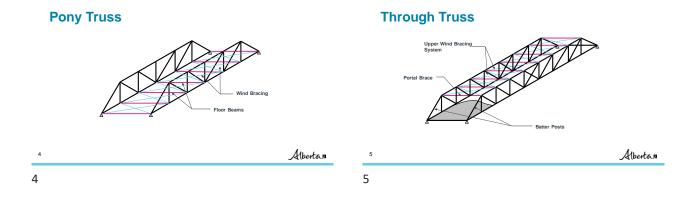
## **Truss Types**

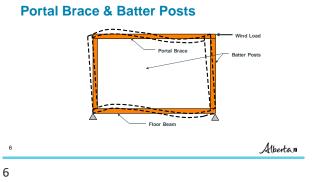
- Three types of trusses in Alberta:
  - Pony trusses
  - Through trusses
  - Deck trusses
- · Traffic loads are transferred to the trusses by a floor system.



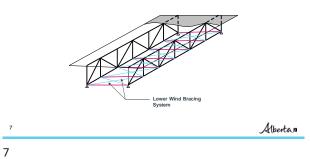


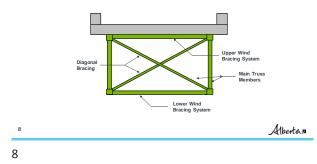
Albertan





**Deck Truss** 





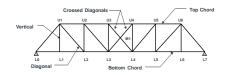
**Deck Truss – Wind Bracing** 

### **Truss Configurations**

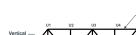
- The way truss members carry loads depends on the configuration of the truss.
- Most trusses in Alberta are either Pratt or Warren trusses.

5	9	Albertan
9		

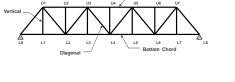
#### **Pratt Truss**



10		Albertan



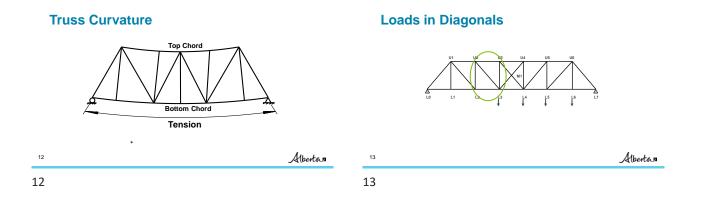
Warren Truss



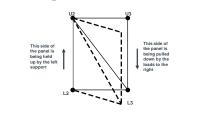
Top Chor



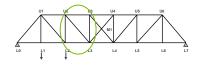
10



Loads in Diagonals

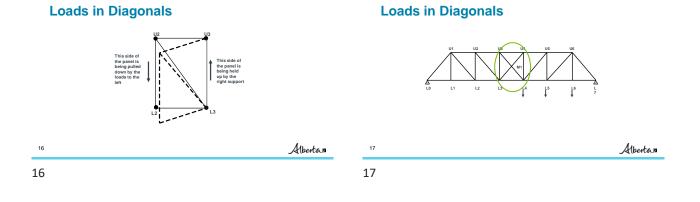


Loads in Diagonals

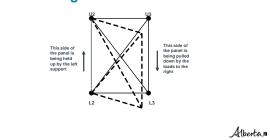




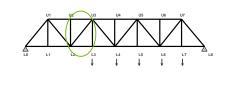
14



Loads in Diagonals

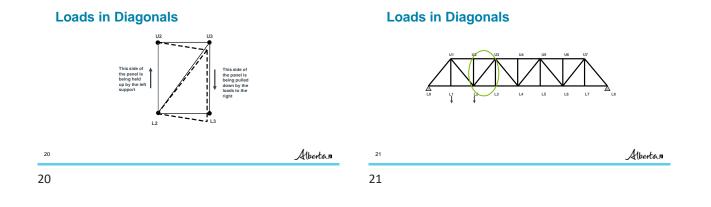


Loads in Diagonals

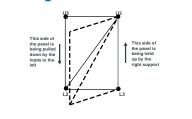




18

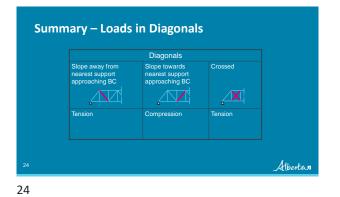




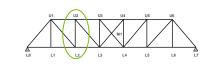


22	Albertan



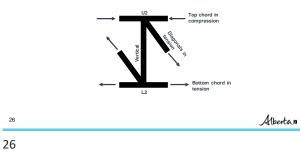


Loads in Verticals

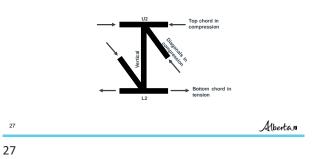


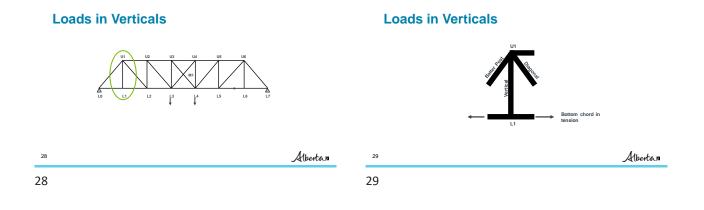


Loads in Verticals

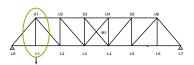






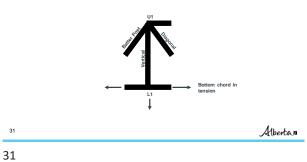


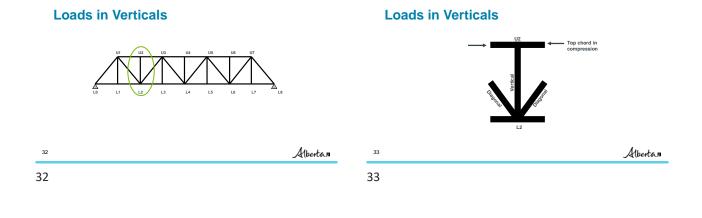
**Loads in Verticals** 

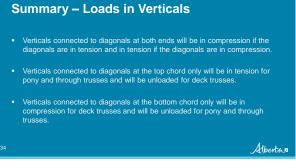


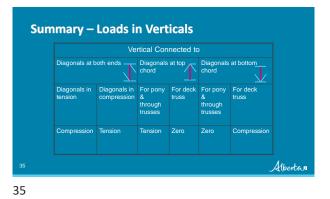
зо Albertaл

Loads in Verticals



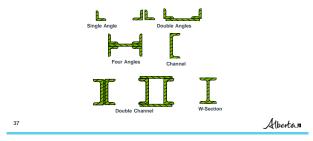


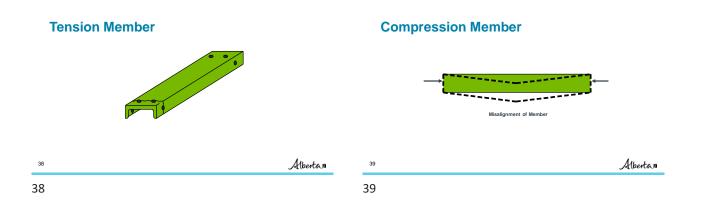


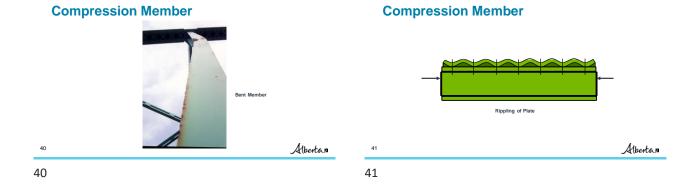




**Steel Sections** 







#### **Compression Member**



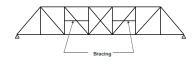
Rippling of Plate

Albertan



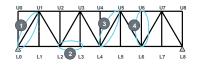
42

**Compression Member** 









**Class Exercise** 

