# Wheeler

### **BRIDGE KITS**

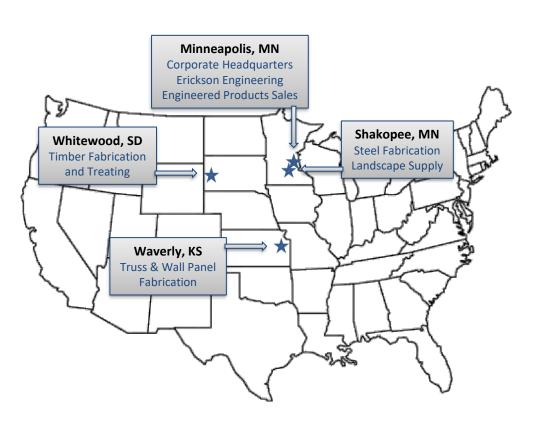
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# Wheeler

**BRIDGE KITS** 

DESIGN / SUPPLY

#### **APPLICATIONS**

#### RECREATION

- PREFABRICATED STEEL
- TIMBER KITS
- PLATFORMS
- RAILROAD RETROFIT

#### VEHICULAR

- PANEL-LAM
- STRINGER

# PREFABRICATED STEEL RECREATION

- Truss Types
- Standard Dimensions
- Popular Options
- Maximum Lengths
  - (single piece, single span)
- Application Specific Features
  - (equestrian, snowmobile, bicycle)
- Installation Considerations

## **PRATT TRUSS**



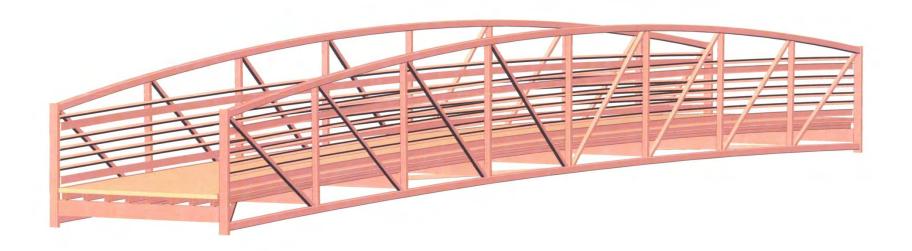
Parallel Chords, Verticals, Diagonals Converge to Middle

#### **BOWSTRING TRUSS**



Cambered Top Chord to Deck Height, Pratt Diagonals Typical

#### MODIFIED BOW TRUSS



Cambered Top Chord to Rail Height, Pratt Diagonals Typical

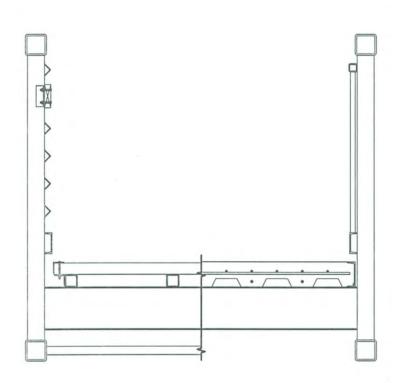
#### **WARREN TRUSS**

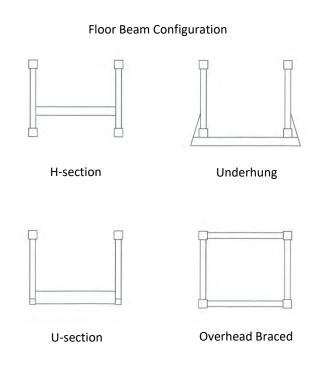


#### STANDARD DIMENSIONS

- Spans 20' 250'
  - Most options up to 200'
  - May need overhead bracing > 200'
- Width 4' 14'
  - Consider vehicle > 6'
  - Most common: 8' 12'
- Camber Near flat 1%

#### STANDARD CROSS-SECTIONS

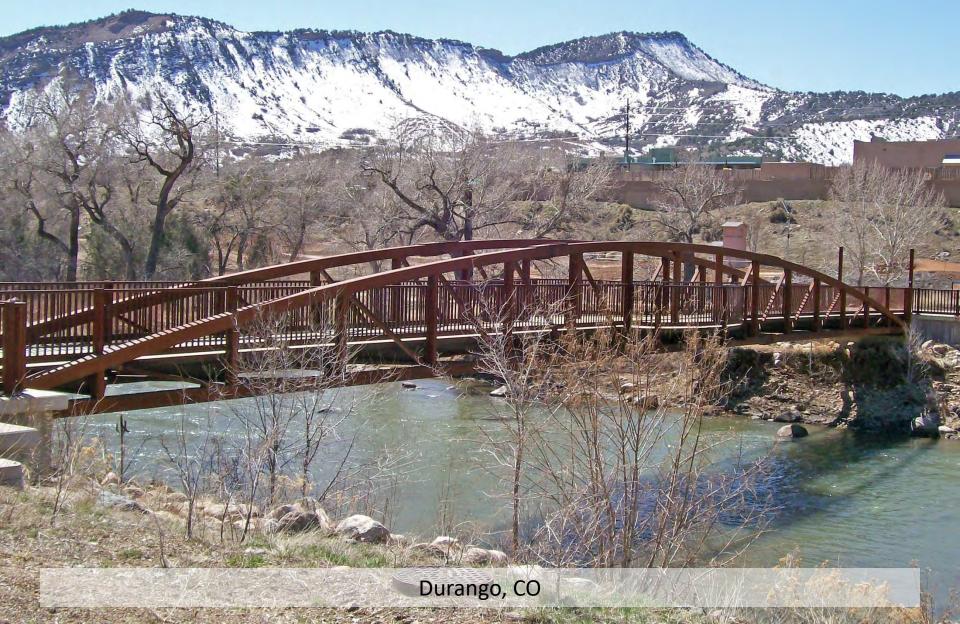
















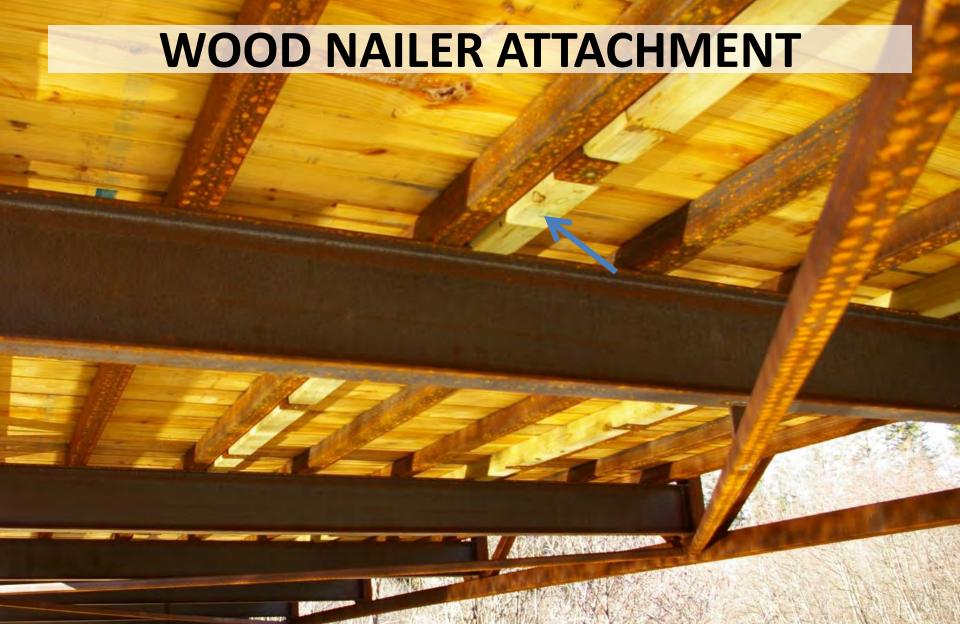


#### DECK MATERIALS

- Preserved Wood
  - MCA, QNAP
  - Optional Wear Course
- Naturally Durable Hardwood
  - Ipe
- Cast-in-Place Concrete
  - Stay-in-place forms

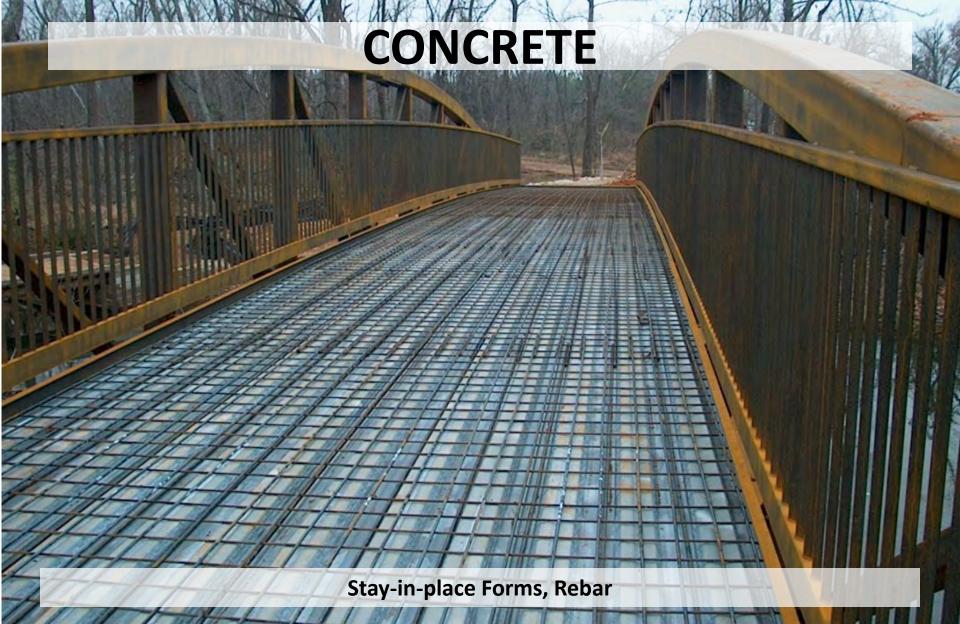
























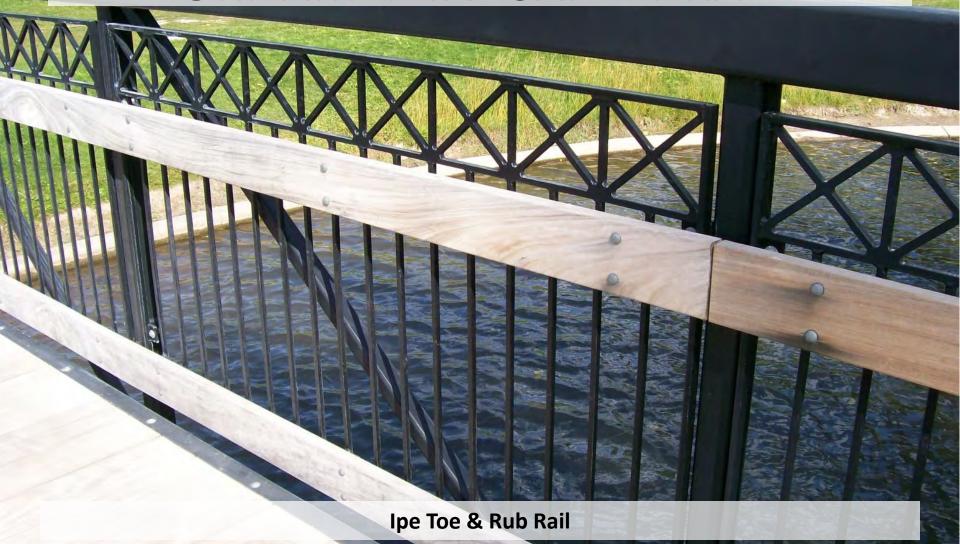
# **TUBE SAFETY RAIL**



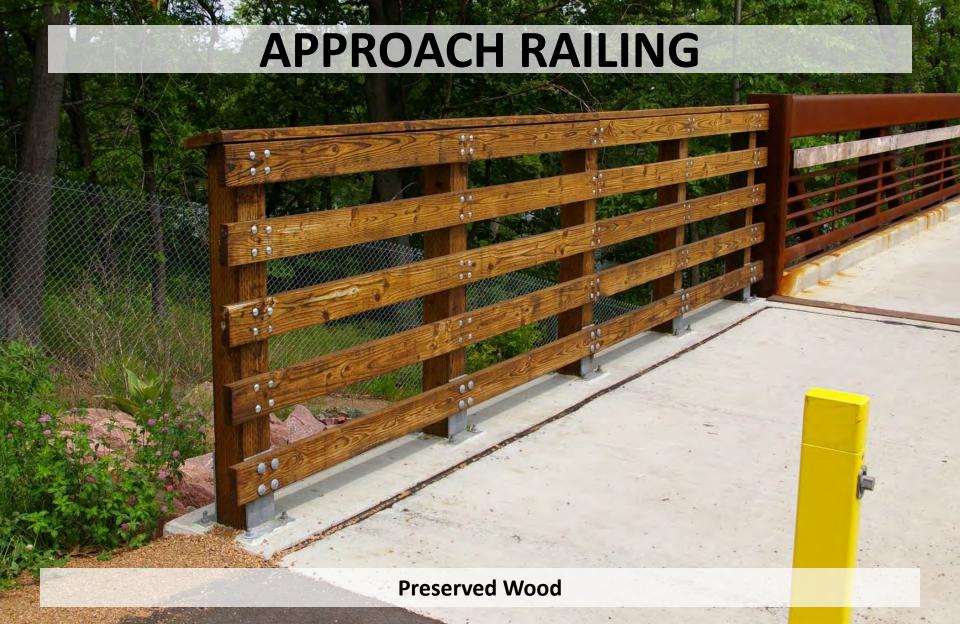




### **ORNAMENTAL SAFETY RAIL**

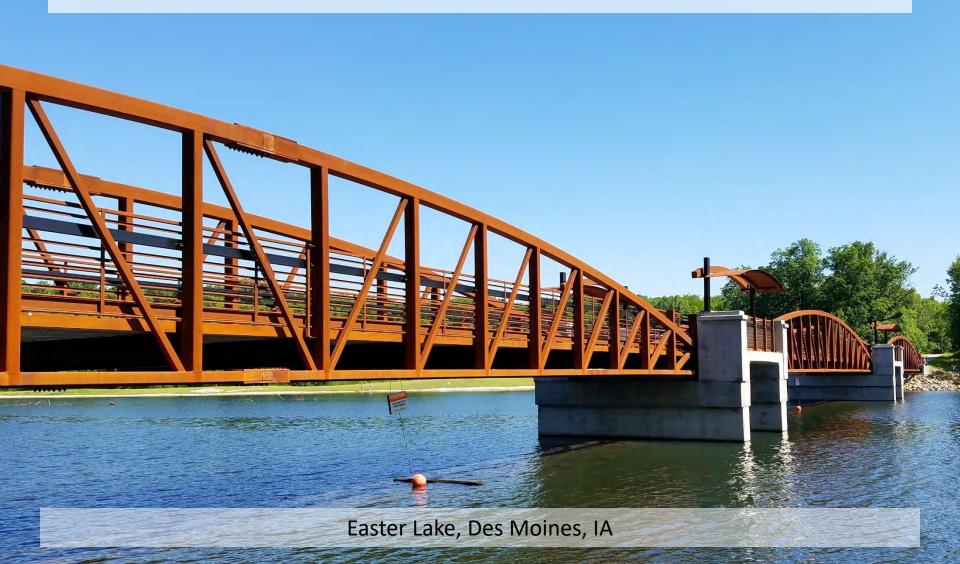




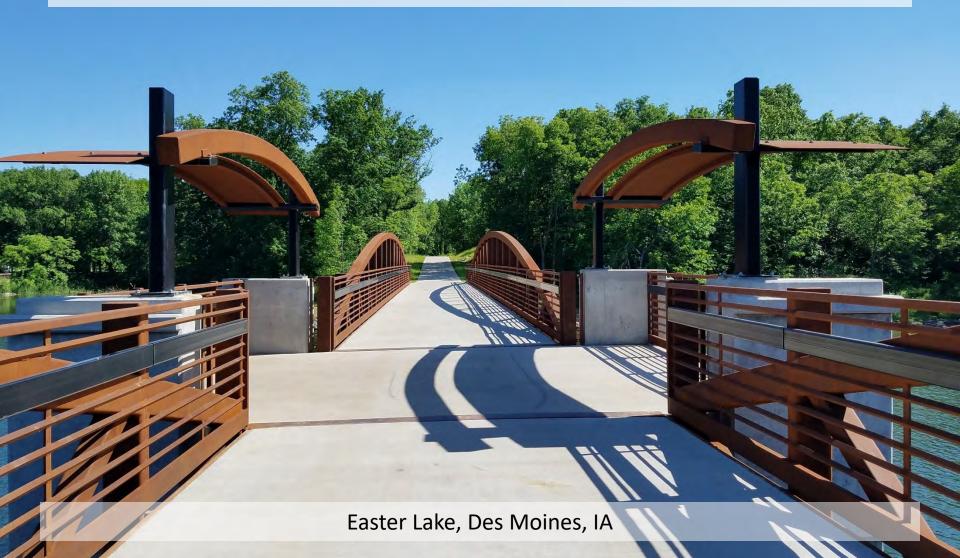




#### **OUTLOOKS**



#### **OUTLOOK AT PIER**



# **OUTLOOK MID-SPAN** Springdale, AR

### **FOUNDATIONS**

Shallow

Sand, Gravel, Bedrock Spread Footings

Deep

Clay, Silt, Peat

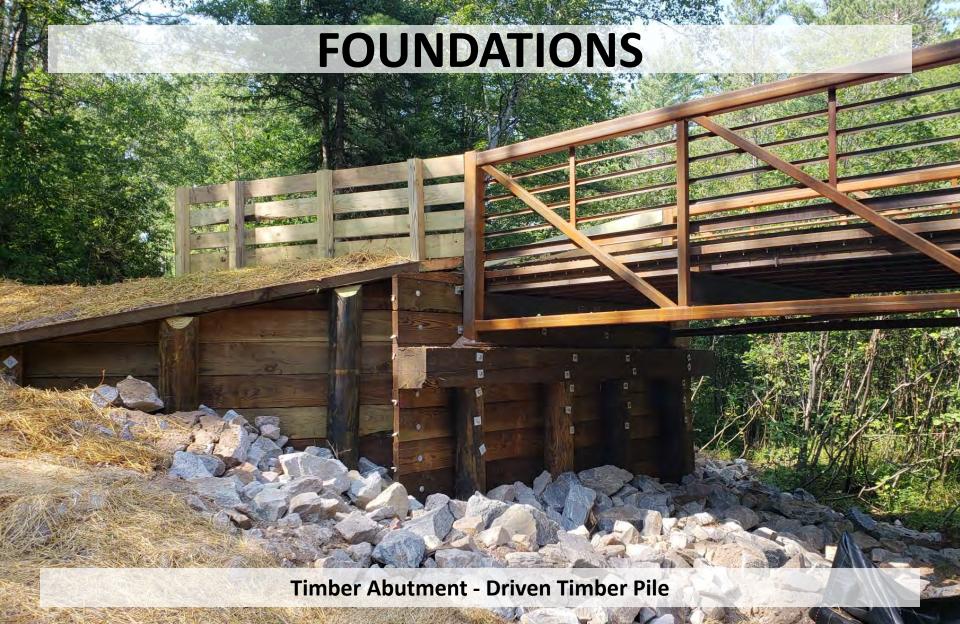
Driven Piling – Timber, Steel, Concrete

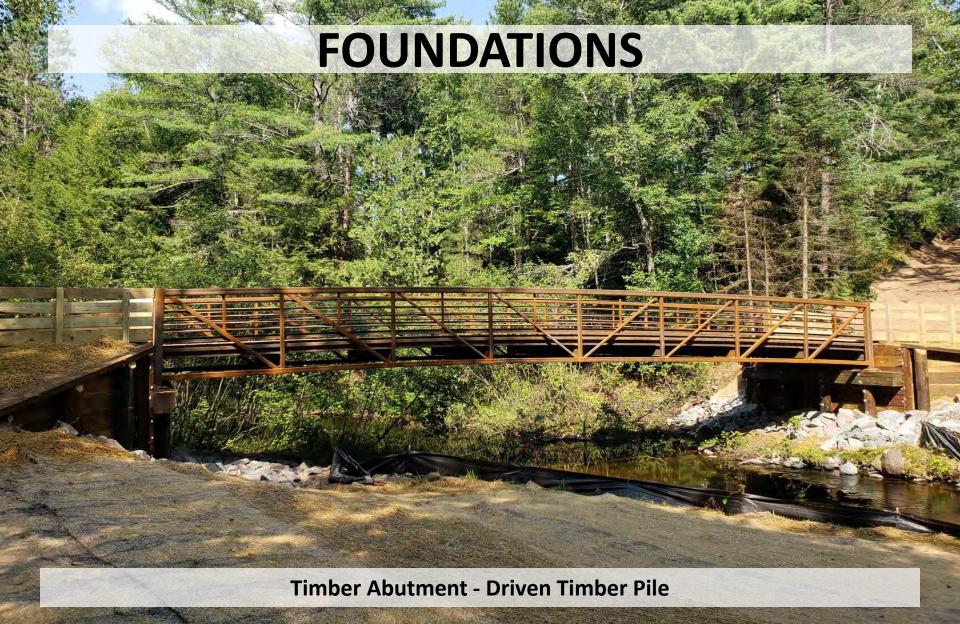
**Helical Piling** 

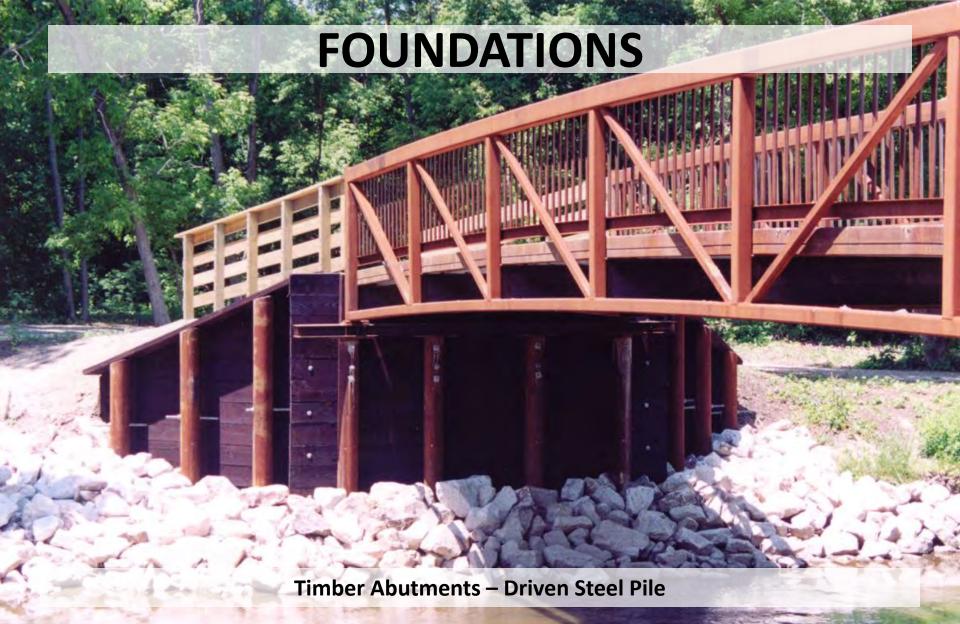




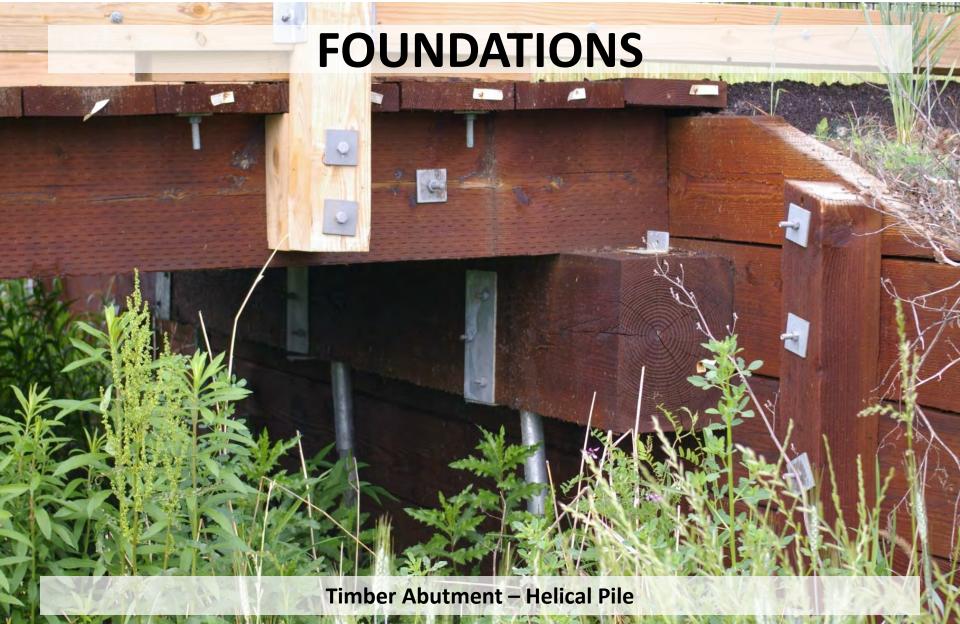




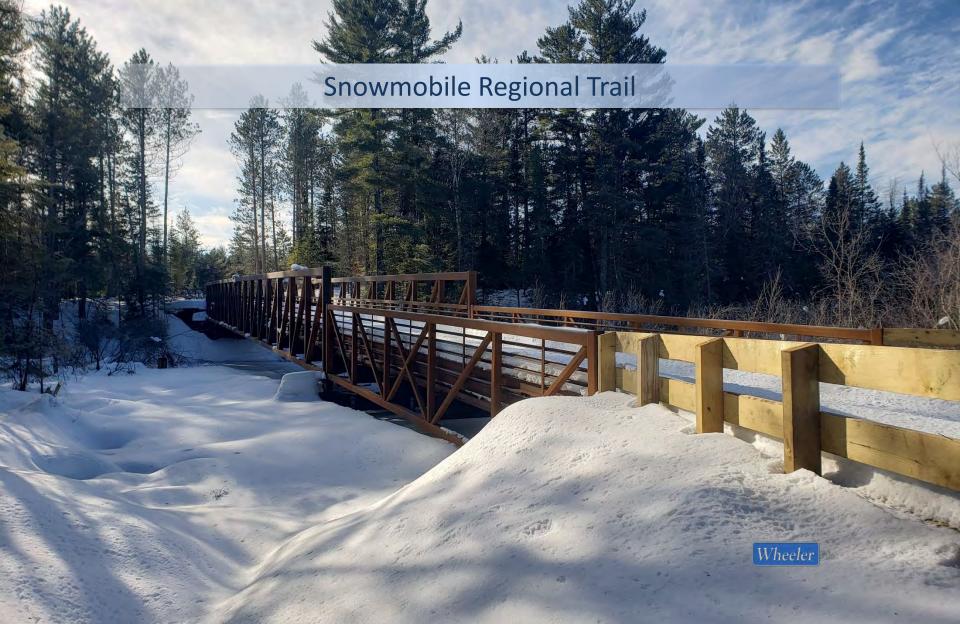










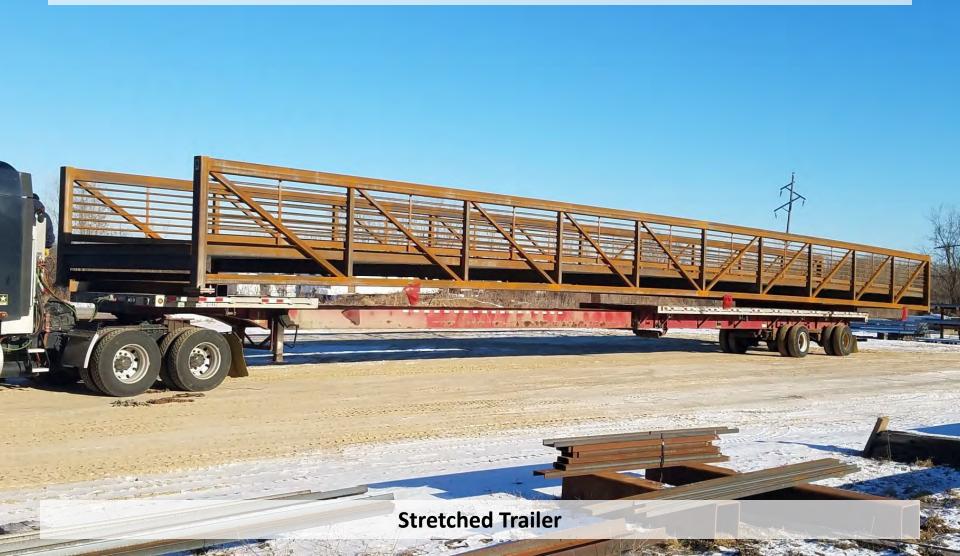




## **SHIPPING**

- Width
  - > 8' Permit Required
  - > 16' \$\$\$
- Single Piece Length
  - > 55' Permit Required
  - < 80' Standard or Stretch Trailer</li>
  - 80' 135' Site Specific, Contractor to Verify, Stretch Trailer or Steerable Dolly
- Multiple Pieces
  - Controlled by height and/or weight of piece
  - Double Drop Trailer < 55'</li>

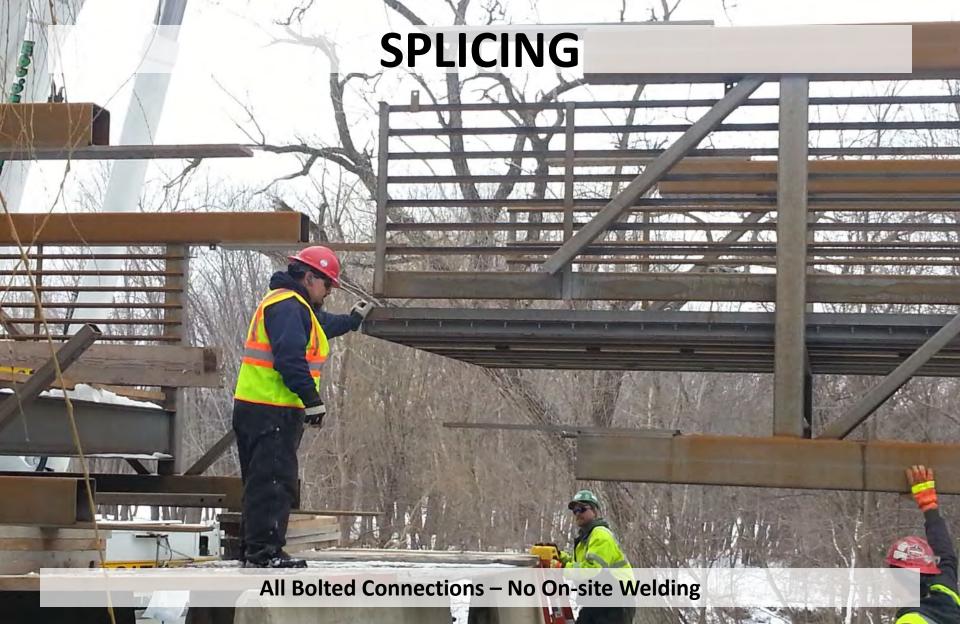
# **SHIPPING**





# **SHIPPING**











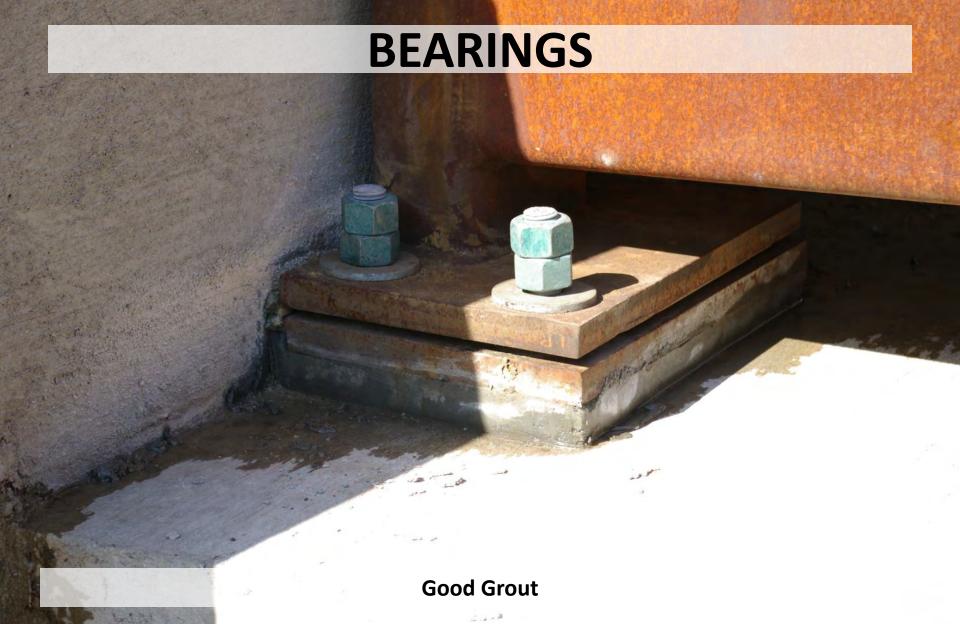


## **INSTALLATION**

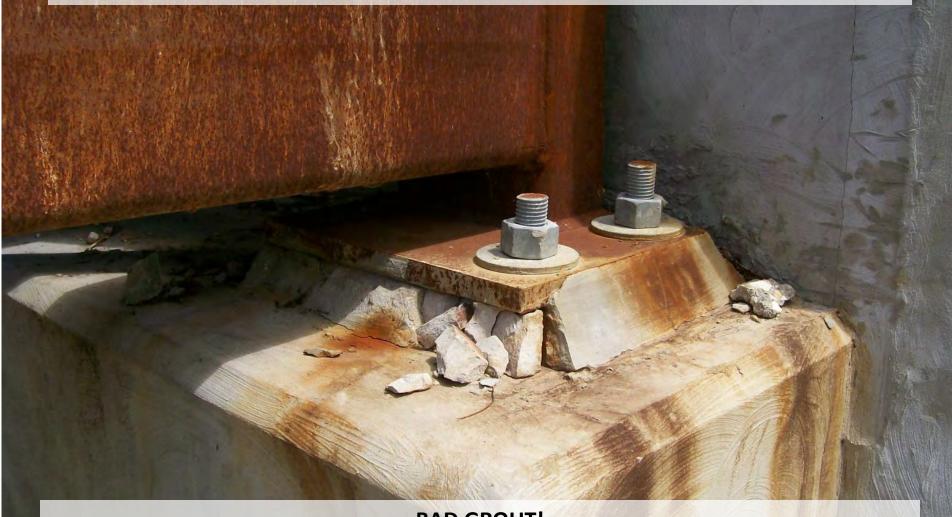








## BEARINGS



**BAD GROUT!** 



## **PRESERVATIVES**



#### WATERBORNE

- Dry to the touch
- Less dimensionally stable
- Weather to gray

#### OIL-BORNE

- Water repellant
- Large members
- Ground contact
- Holds color longer









- Oil-borne
- Water repellant
- Semi-transparent color
- Steam cleaned
- Non-corrosive

