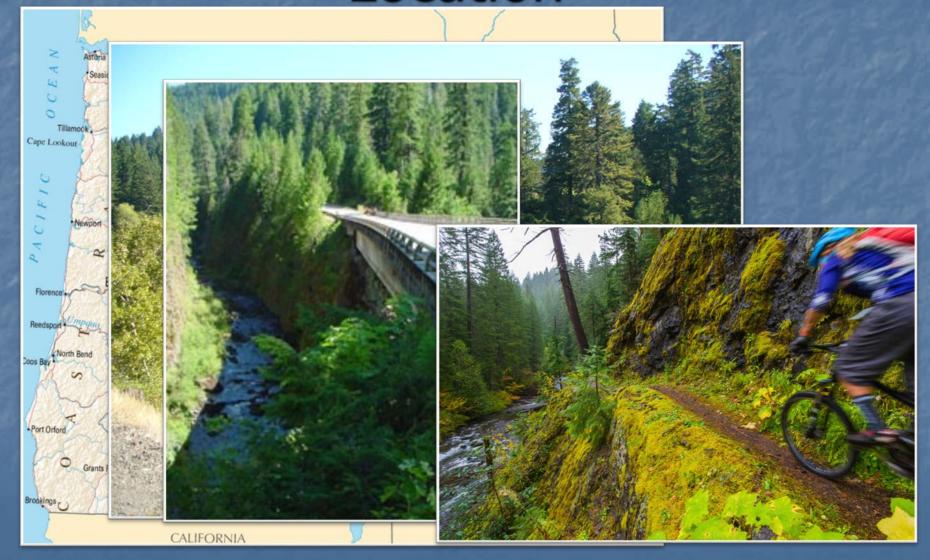
Tioga Pedestrian Bridge Replacing what once was



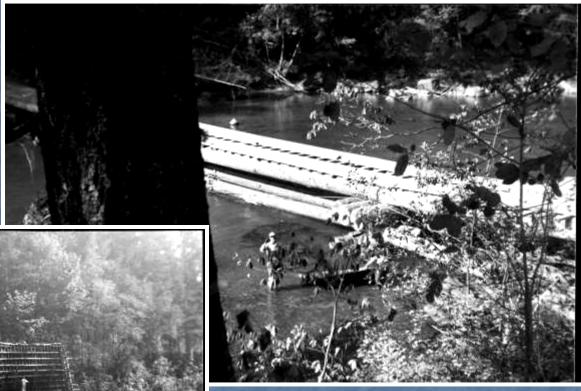
Bob Grubbs, PE ODOT Bridge Design Unit, Region 3

Location





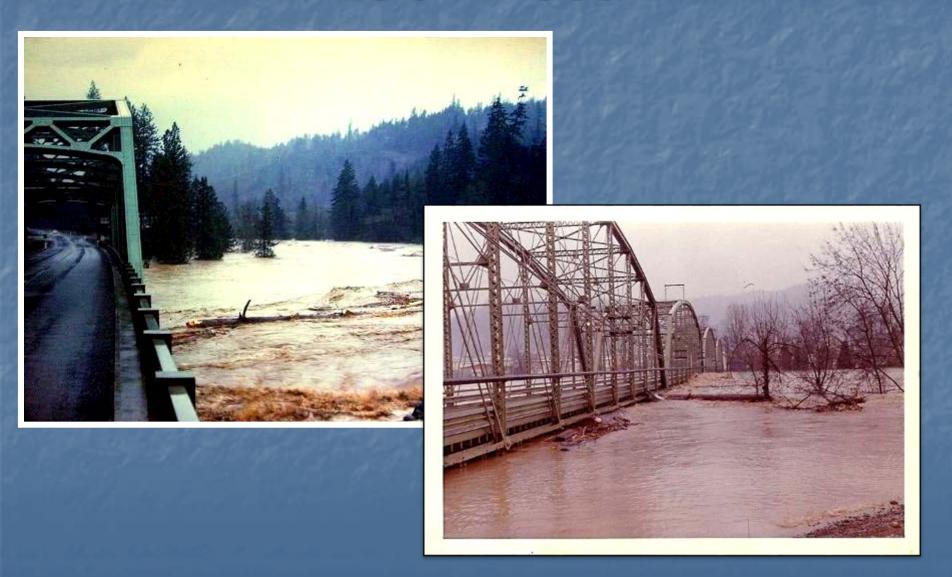
History



Original Bridge



1964 Flood



All That Remains



BLM Plan

Tioga Bridge and Susan Creek Day-Use Area Improvements Roseburg District, Bureau of Land Management Vicinity Map

T26S R2W, W.M.



Design Challenges Narrow Adjacent Road





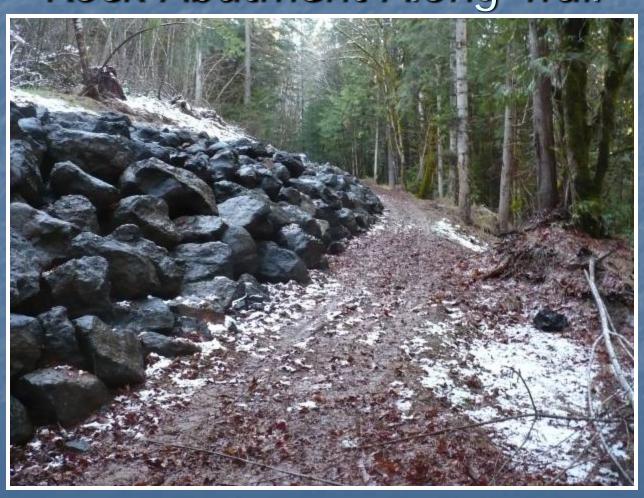
Design Challenges No information on Existing Piers



Design Challenges Poor Access to South Side



Design Challenges Rock Abutment Along Trail



Project Challenges More than engineering challenges

- Funding
- Environmental permitting
- Public expectations
- Public outreach
- Design & contracting methods

Funding

- Forest Enhancement
- Western Federal Lands Highway Division
- Scenic Byways

Environmental Permitting

- Biological assessment for spotted owls
- Archaeological clearances required
- Storm water management plan
- Sctn. 7a Wild & Scenic River Requirements
- In-water-work for access to south side

Public Expectations



Public Outreach

Field Trips

Public Outreach

- Field Trips
- Circle of Trust

Circle of Trust



BLM Expectations



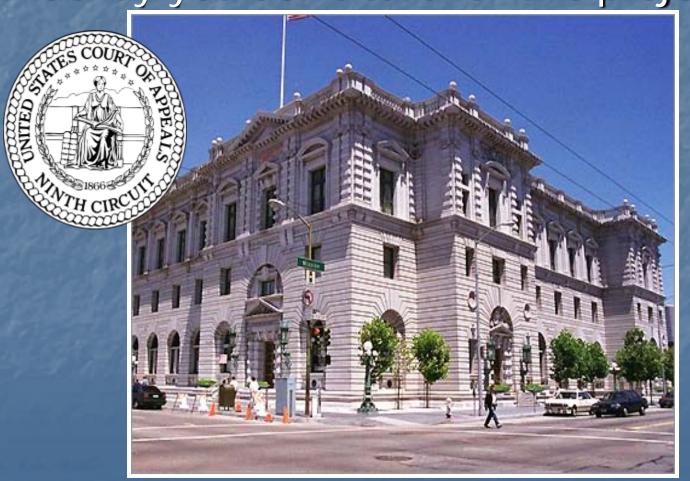


WESTERN WOOD STRUCTURES, INC.

Working Wonders with Wood

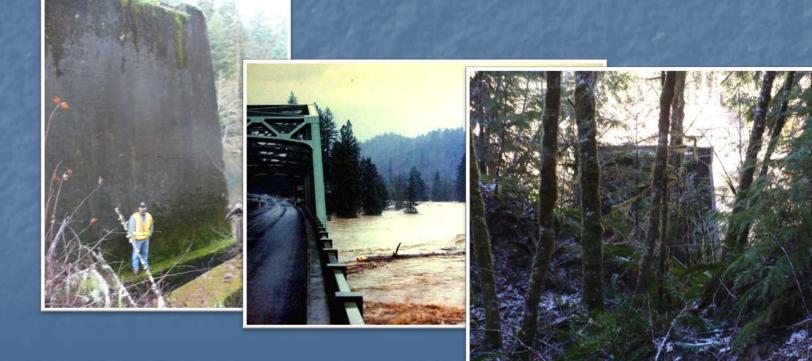
Bumps In the Road

Evidently you don't care for this project?



Bumps In the Road

- Evidently you don't care for this project?
- Design Challenges



Bumps In the Road

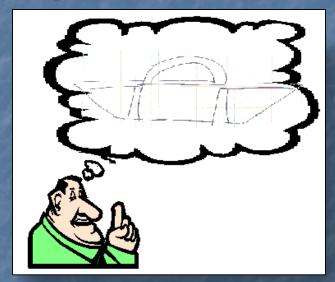
- Evidently you don't care for this project?
- Design Challenges
- Right of Way and road use agreements
- You want to add what?

How Do We Do This?

- Design it ourselves?
- Add it as a proprietary item?
- Purchase through procurement contract?
- Acquire through an AE Contract?
- Design Build-Low Bid...yeah that'll work

The Steps of the DBLB

From here:



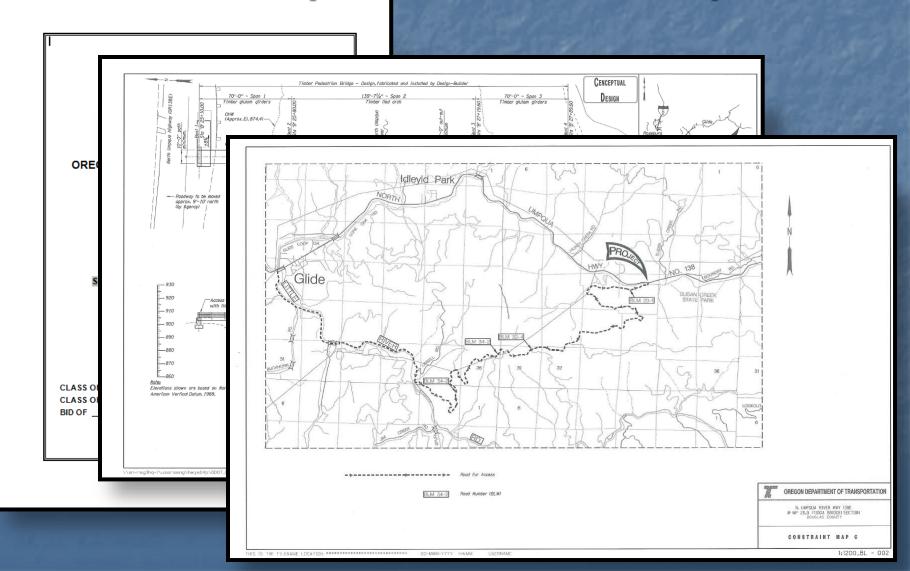
To here:



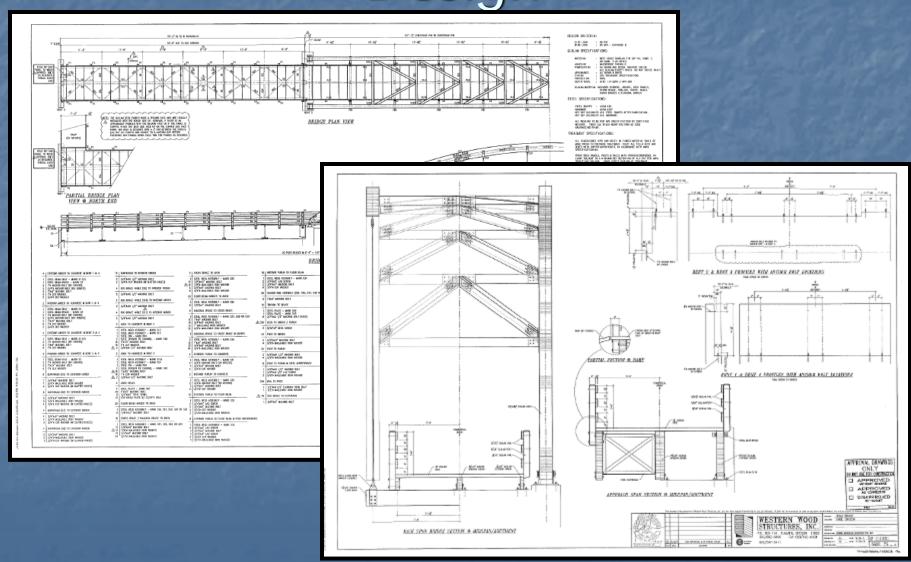
Design Build Low Bid

- Challenges
 - First DBLB, first time bugs
 - Not set up for this unique case
- Requirements
 - Schedule between projects
 - Who inspects?
- Next time
 - Clearly define roles for inspection, details, etc.
 - Better defined schedule between contracts

Preliminary Contract & Layout



Design



Fabrication



Construction Road Realignment



Construction Preparing Piers for Bridge

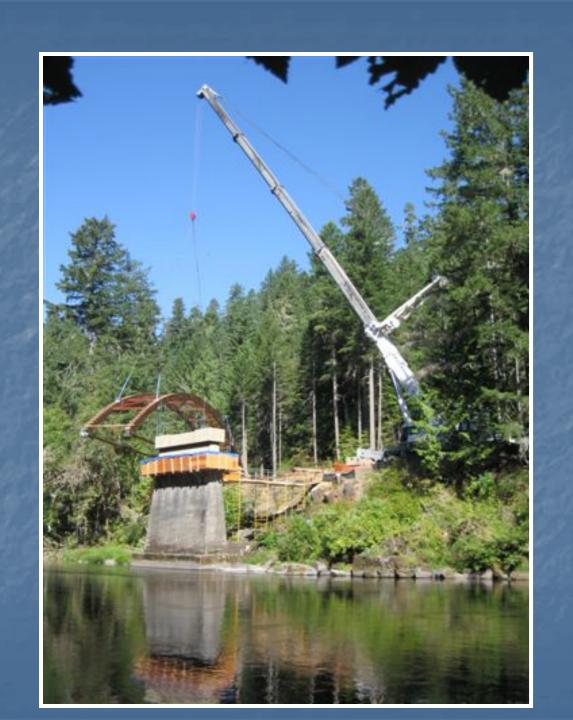


Construction Assemble Bridge on Site



Construction Fly it in!

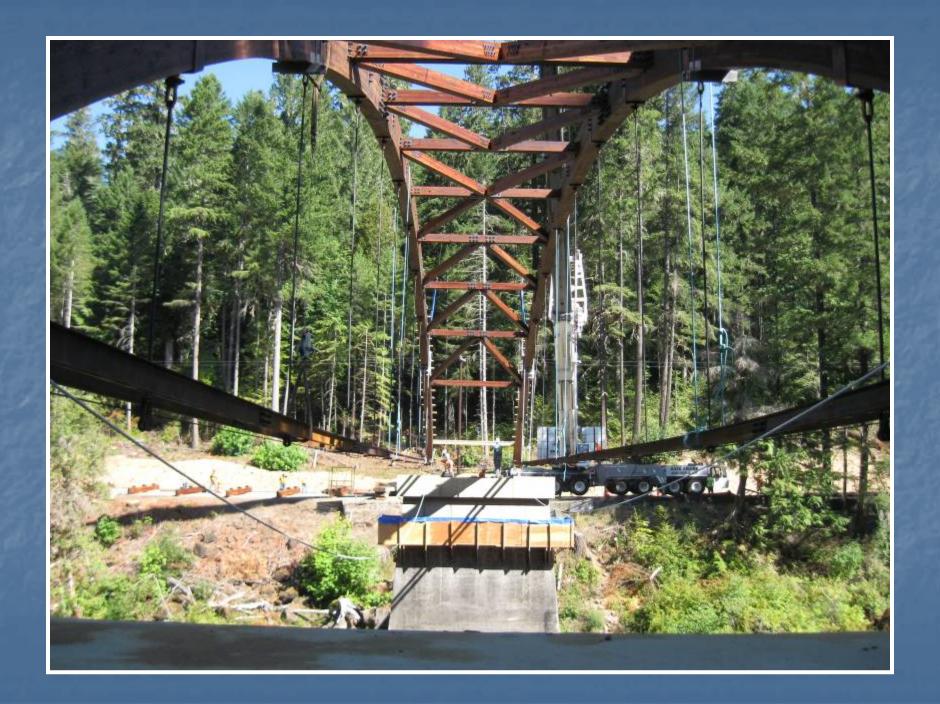


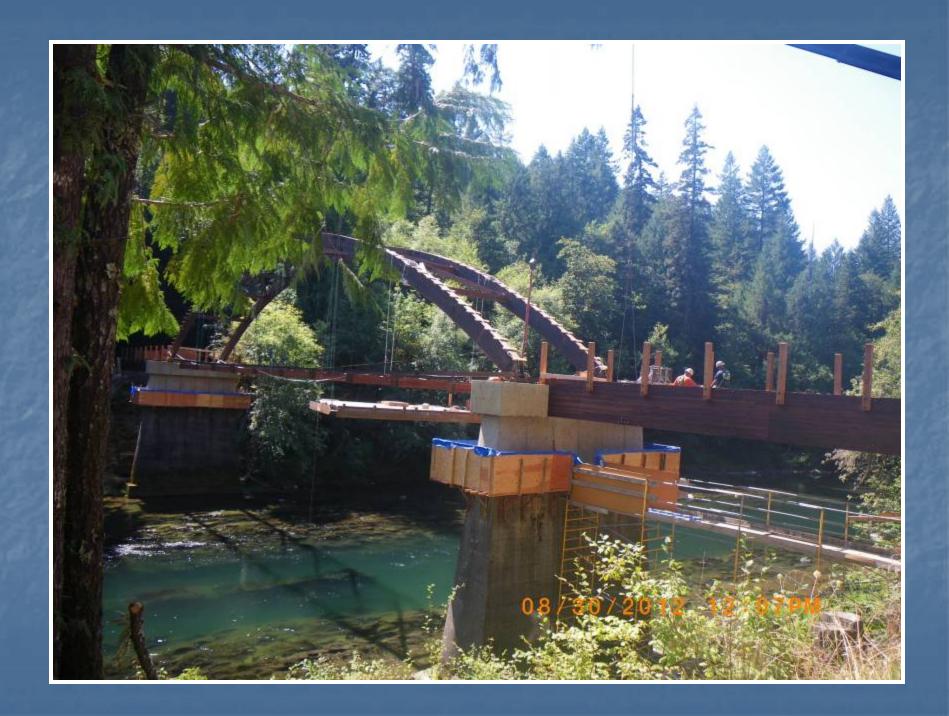


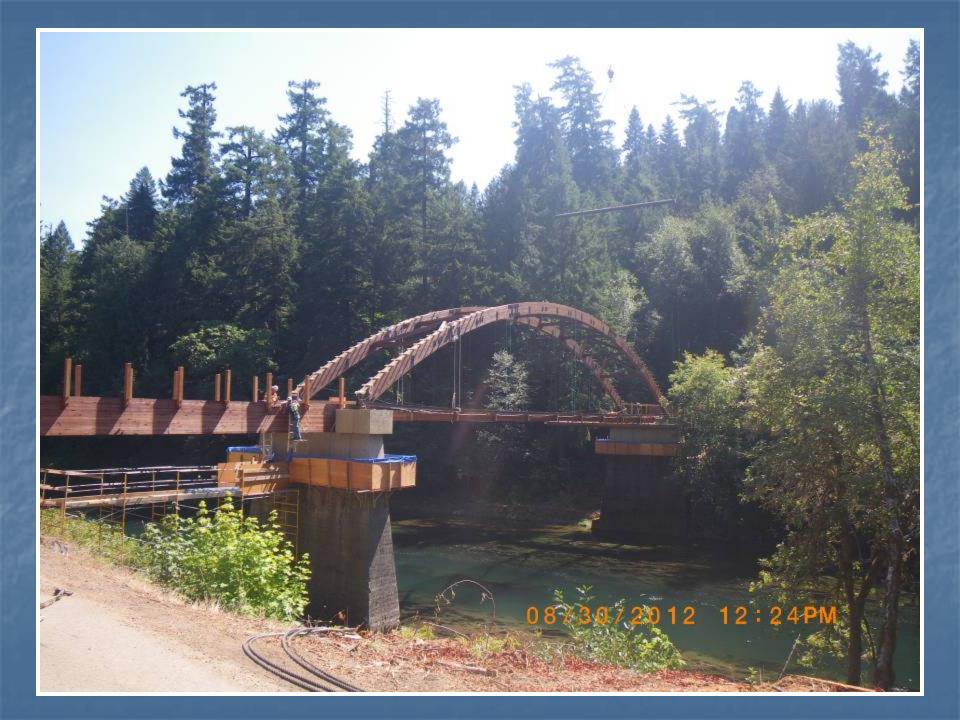


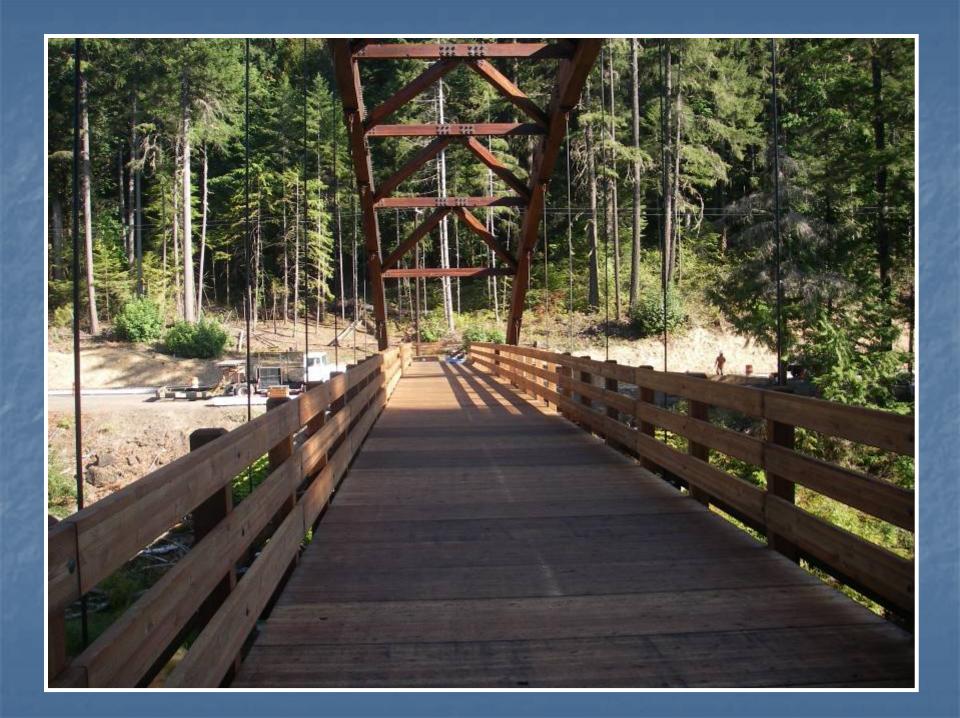




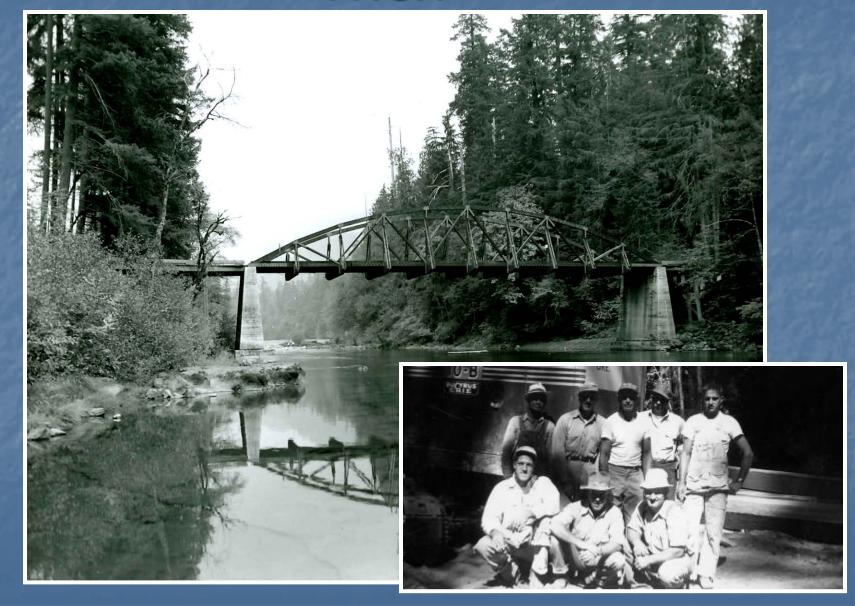








Then



Now



Questions

