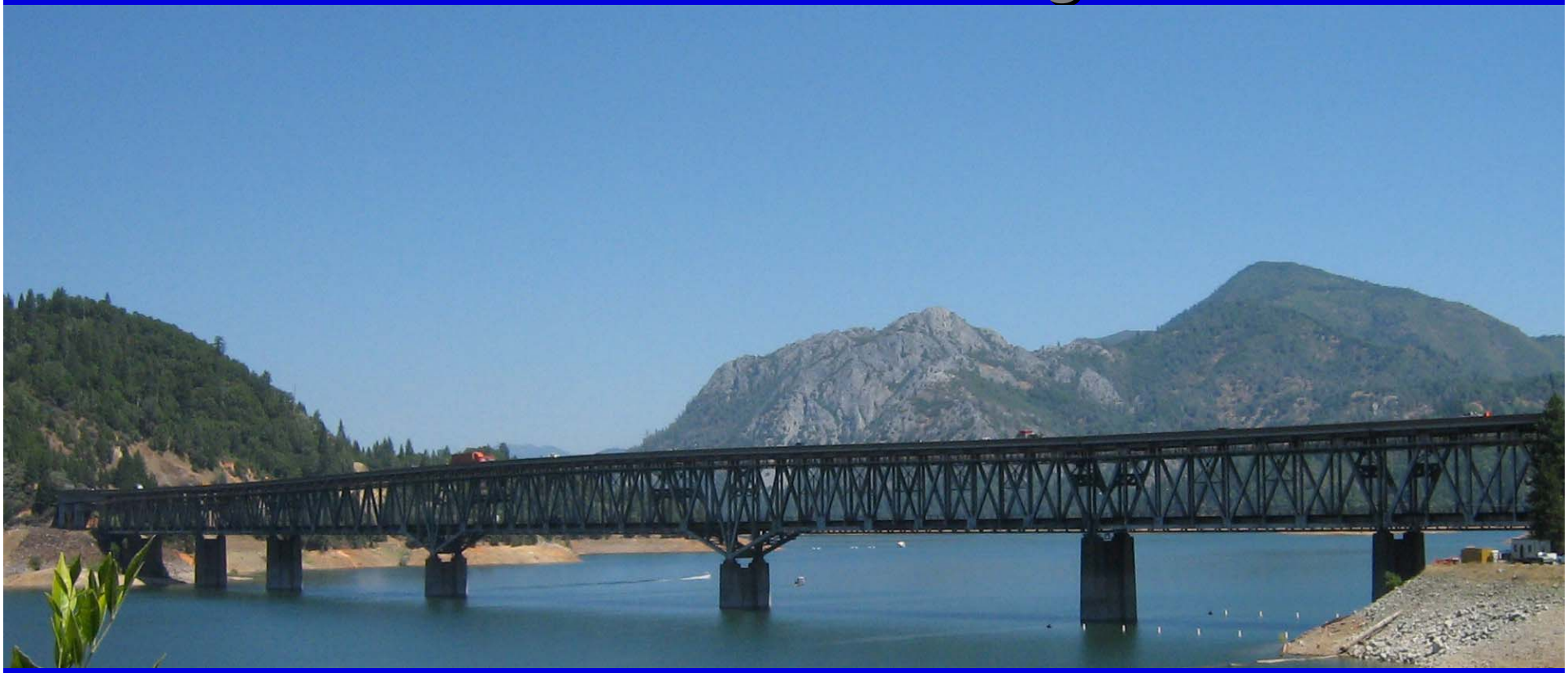
Emergency Deck Replacement of the Pit River Bridge



CalTrans Structure Representative **: Andy O'Sullivan, P.E.**

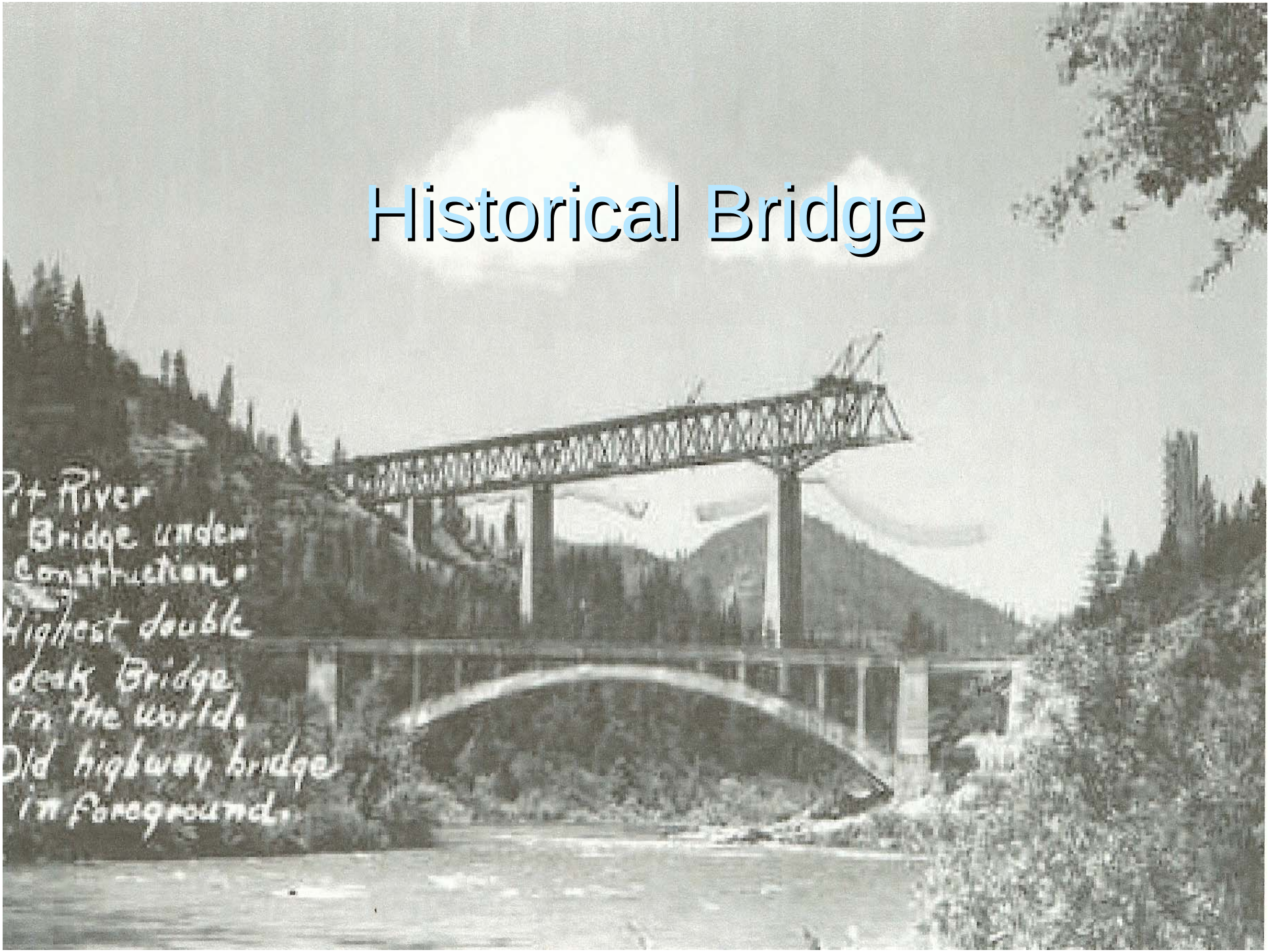
CT Area Bridge Construction Engineer **: Sonny Fereira, P.E.**

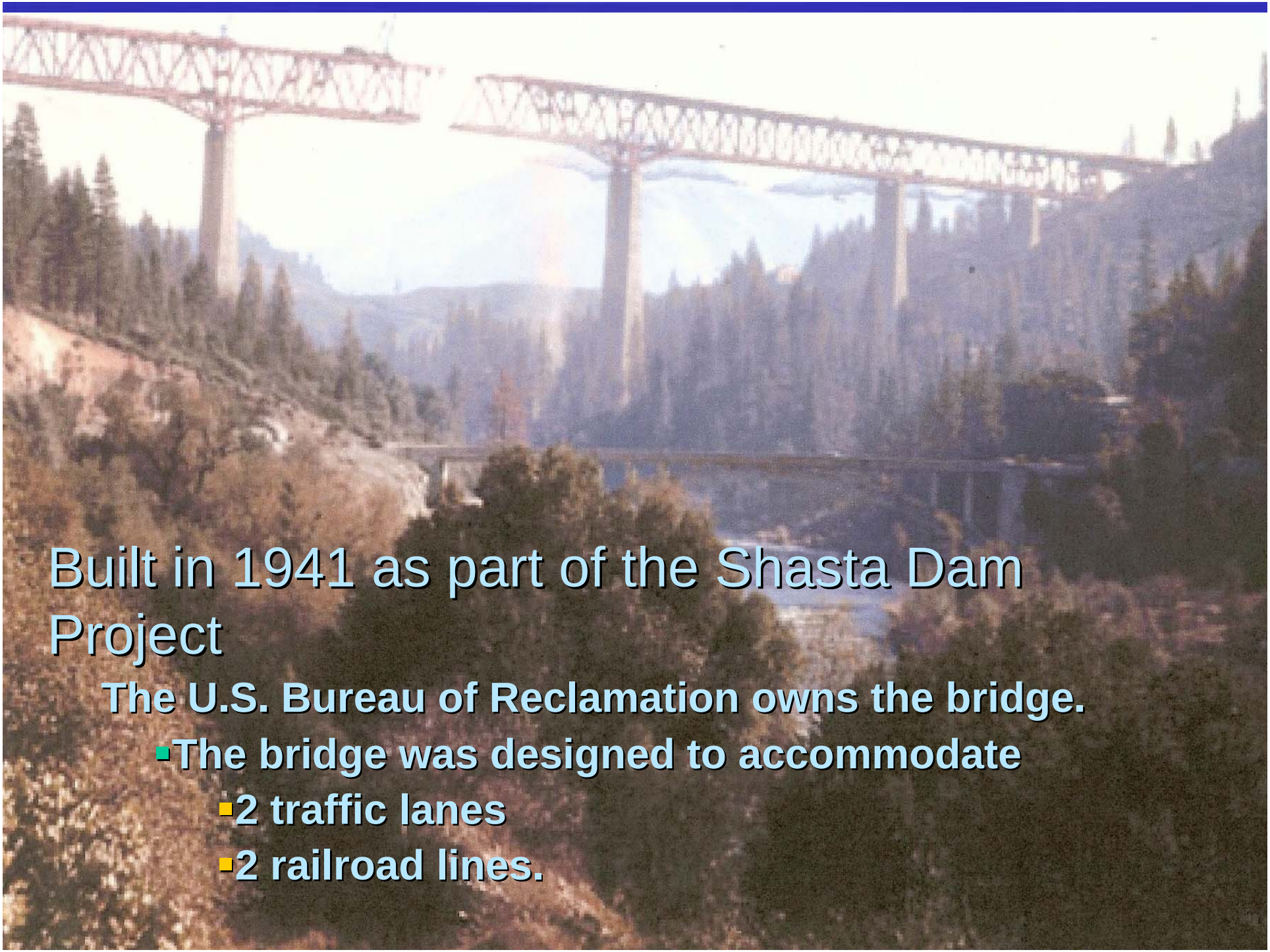
Deck Replacement Contractor **:**

Golden State Bridge, Inc.

President: Dave Riccitiello, P.E. – VP: Will Reames, P.E.

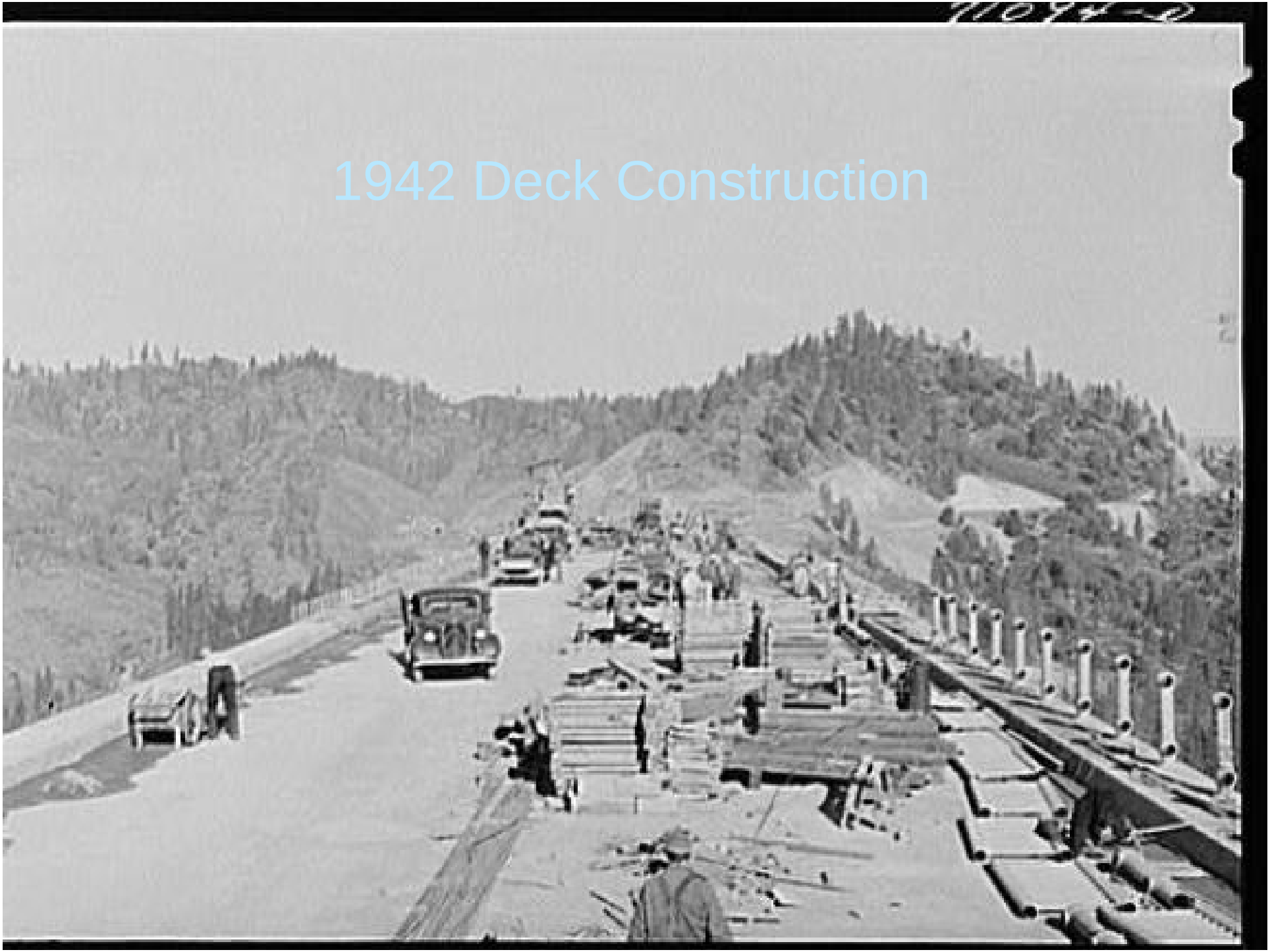
Historical Bridge





Built in 1941 as part of the Shasta Dam Project

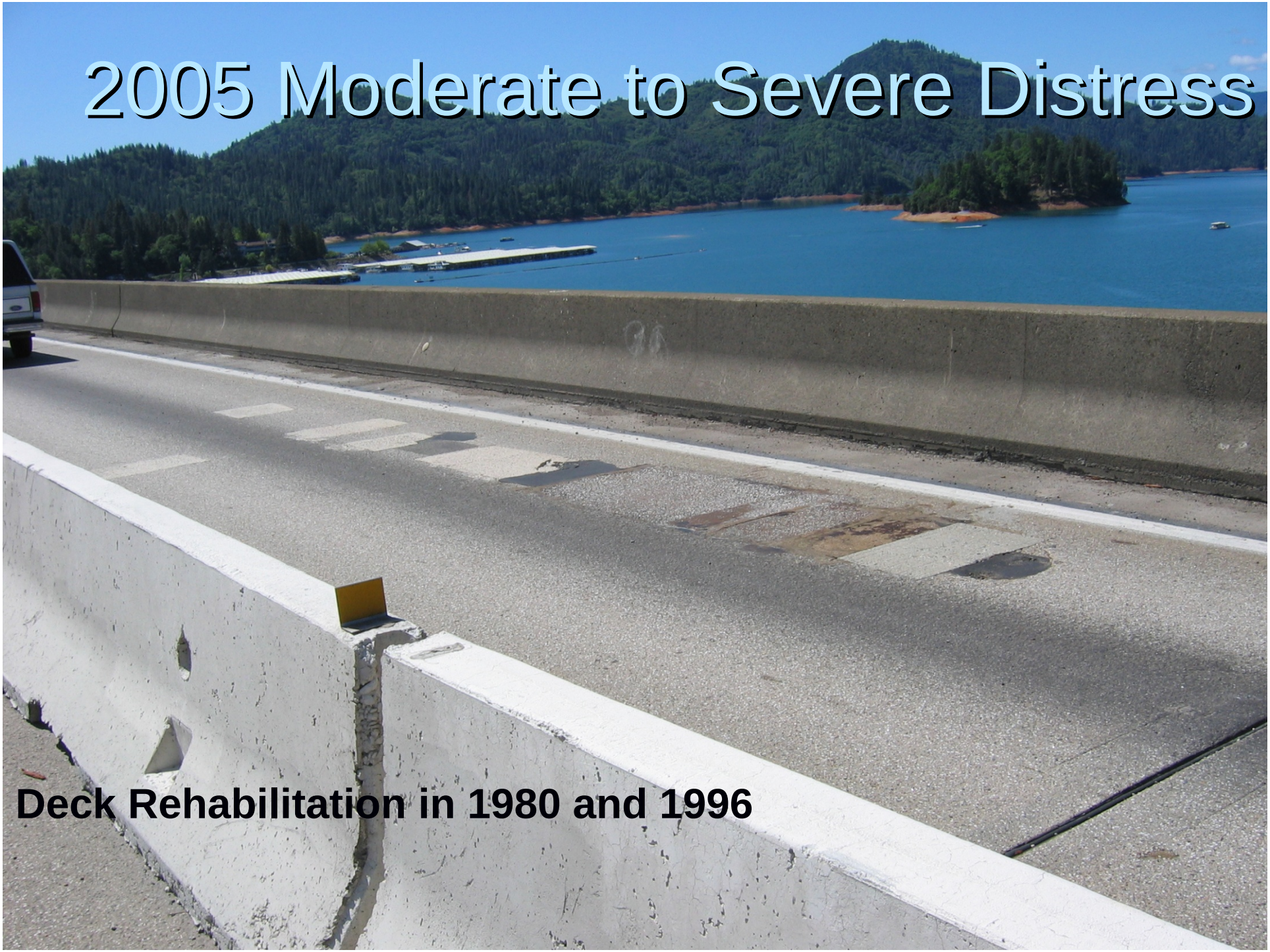
- **The U.S. Bureau of Reclamation owns the bridge.**
  - **The bridge was designed to accommodate**
    - **2 traffic lanes**
    - **2 railroad lines.**


1942 Deck Construction



1941 Access


Widened to 4 lanes in 1966


2005 Moderate to Severe Distress
Deck Rehabilitation in 1980 and 1996

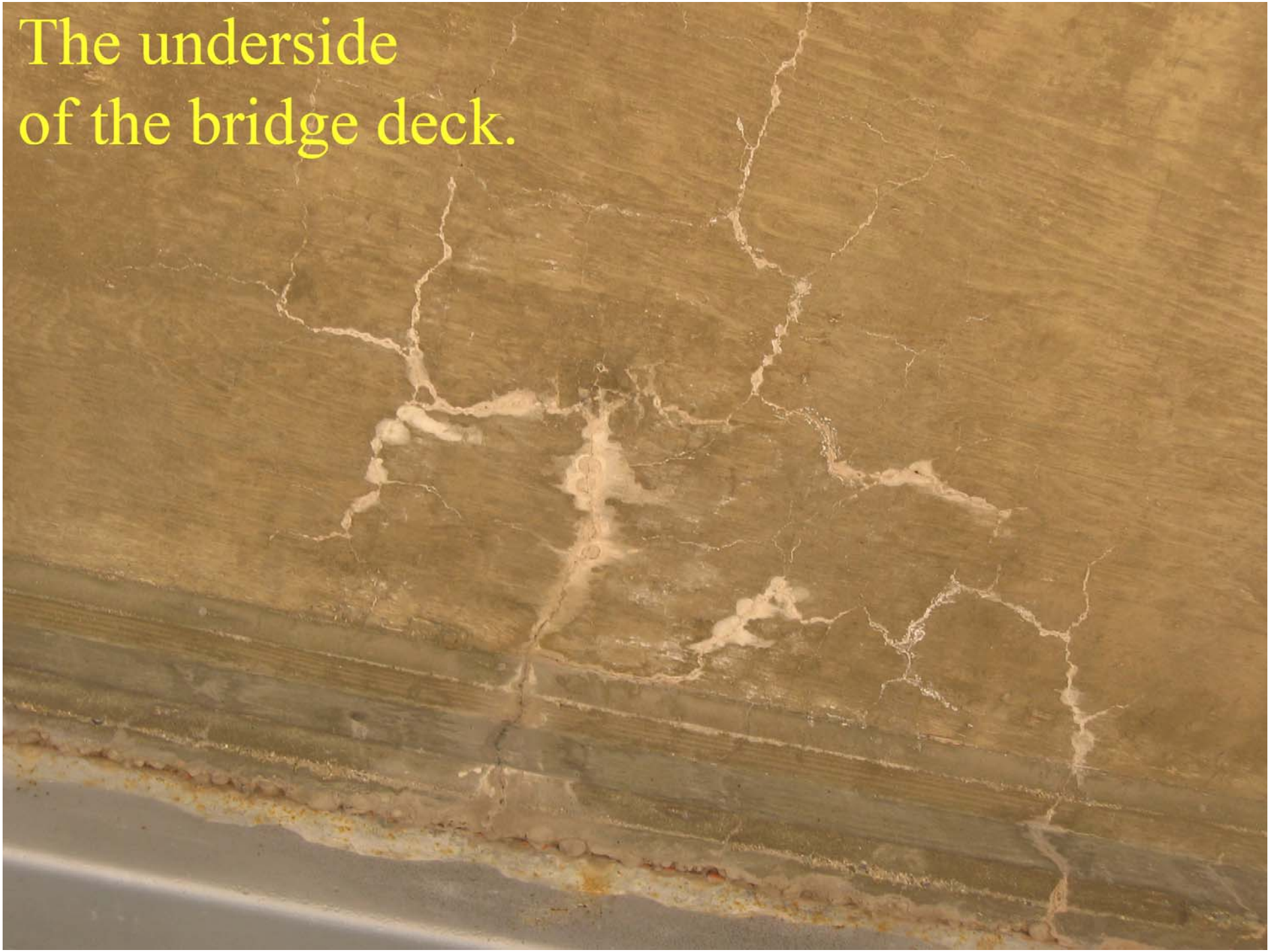

Start of Deck Failure

Little bit Larger Now



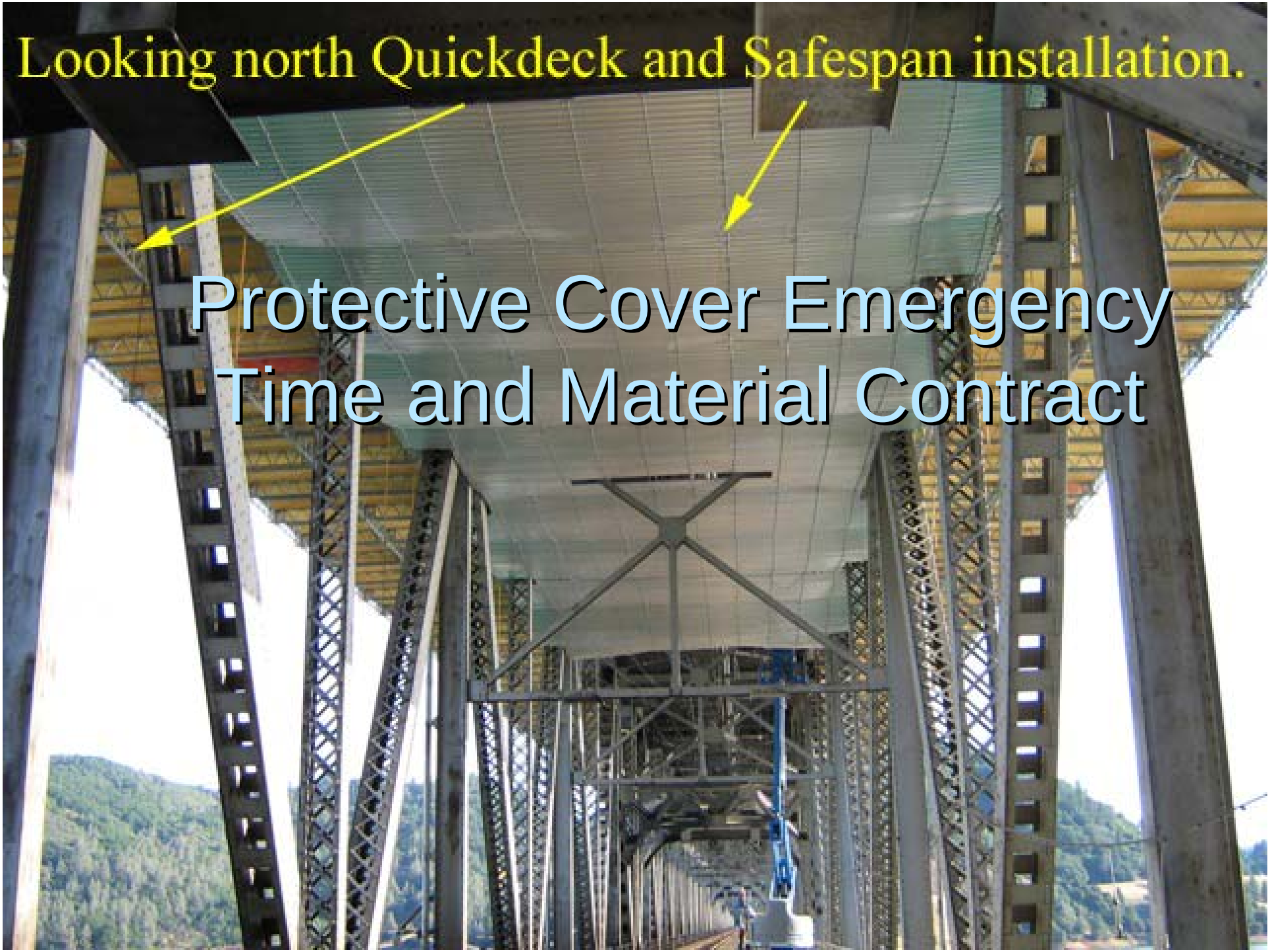
Failed




The underside
of the bridge deck.


Underside of
a repair
done to the
bridge deck
from overhead.


Finger Joints at Stage #1
Repairing unsound concrete
to existing lanes.

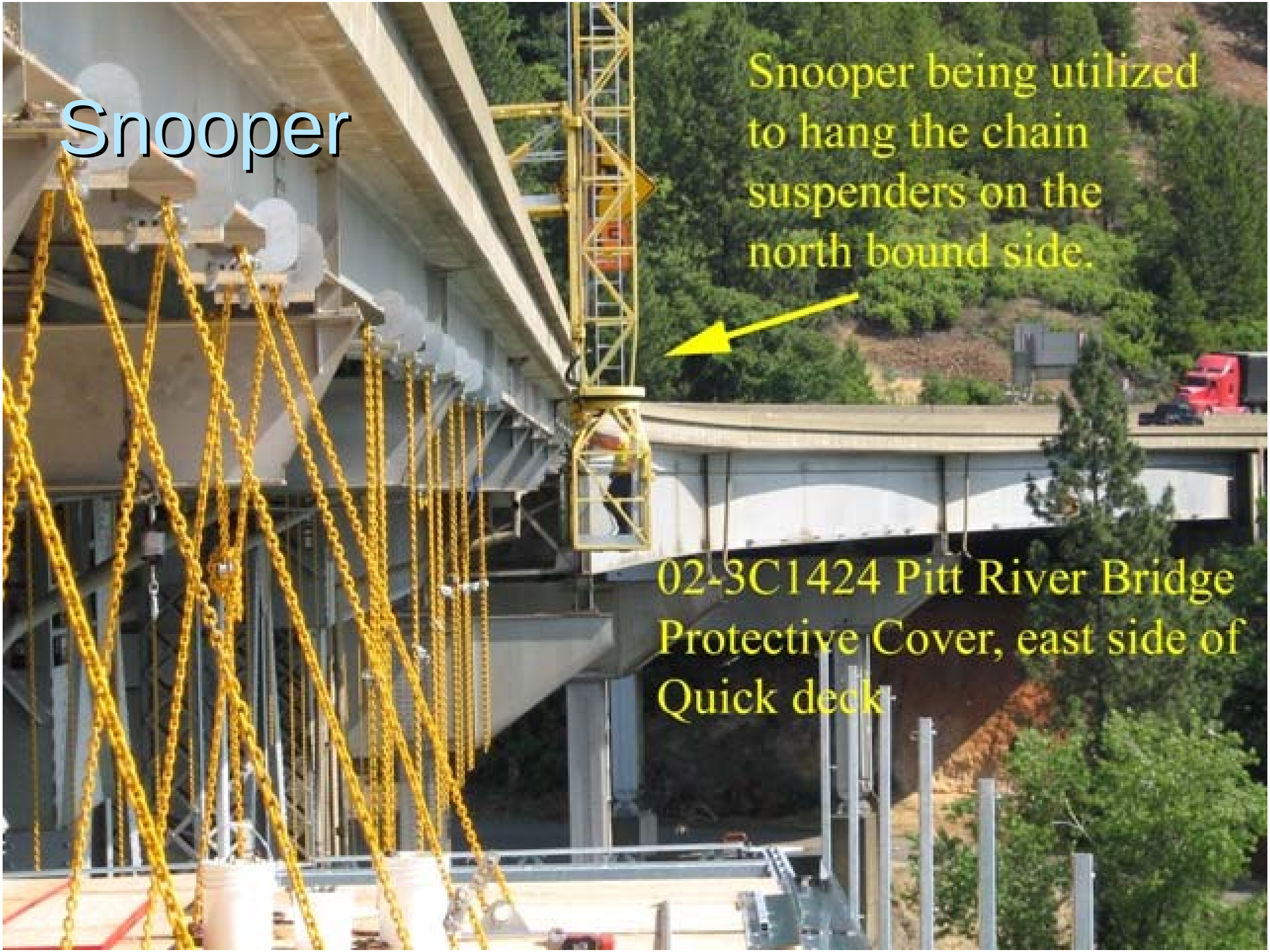

Looking north Quickdeck and Safespan installation.
Protective Cover Emergency
Time and Material Contract


Contractor: J F Shea, Inc.
$7 Million contract
“Emergency Limited Bid”
Mark Ups: Labor 3%
Equipment 0%
Material 11%
Quickdeck
Safespan

Quickdeck



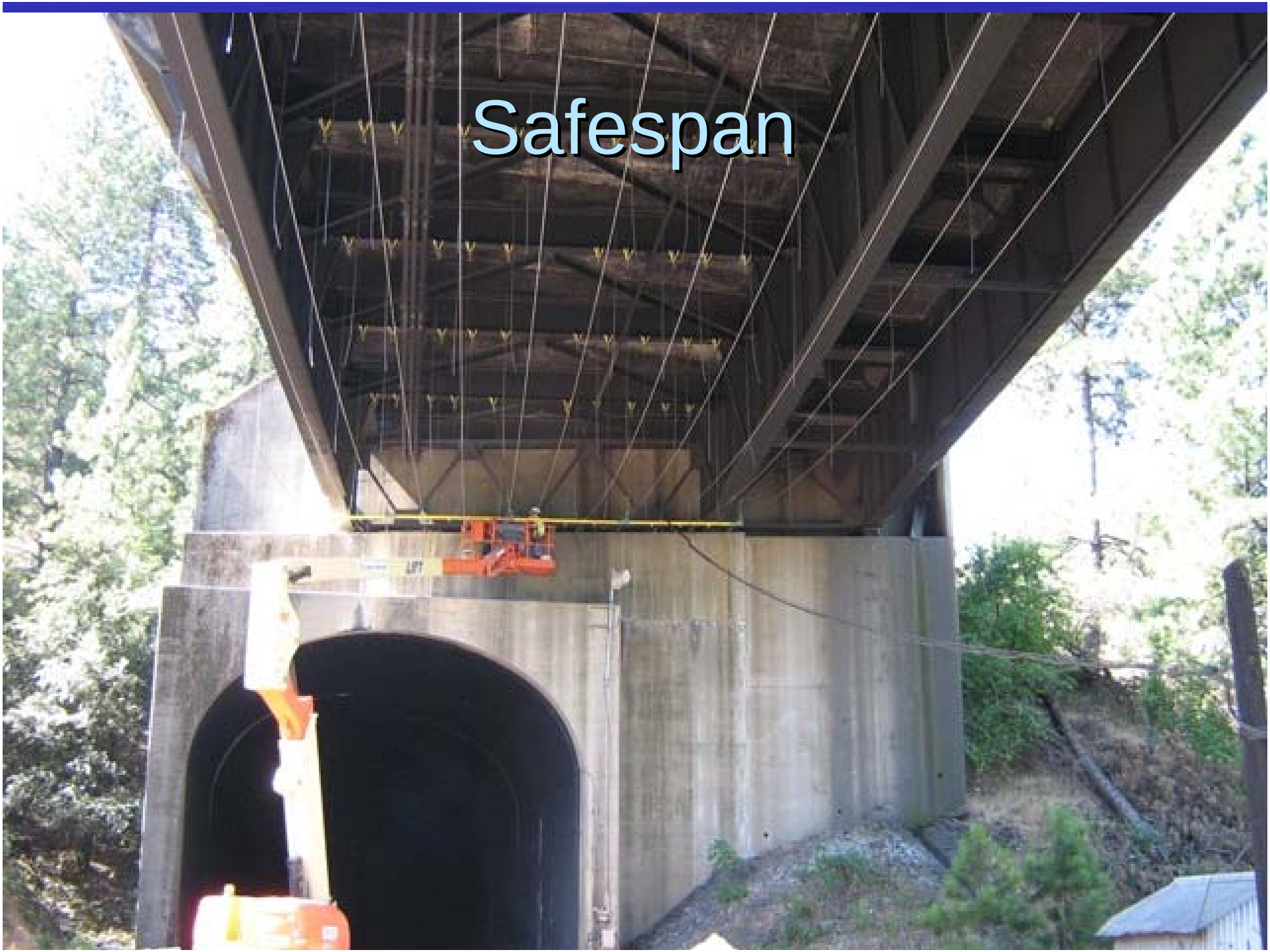
Snooper


Snooper being utilized to hang the chain suspenders on the north bound side.
02-3C1424 Pitt River Bridge Protective Cover, east side of Quick deck


Quickdeck

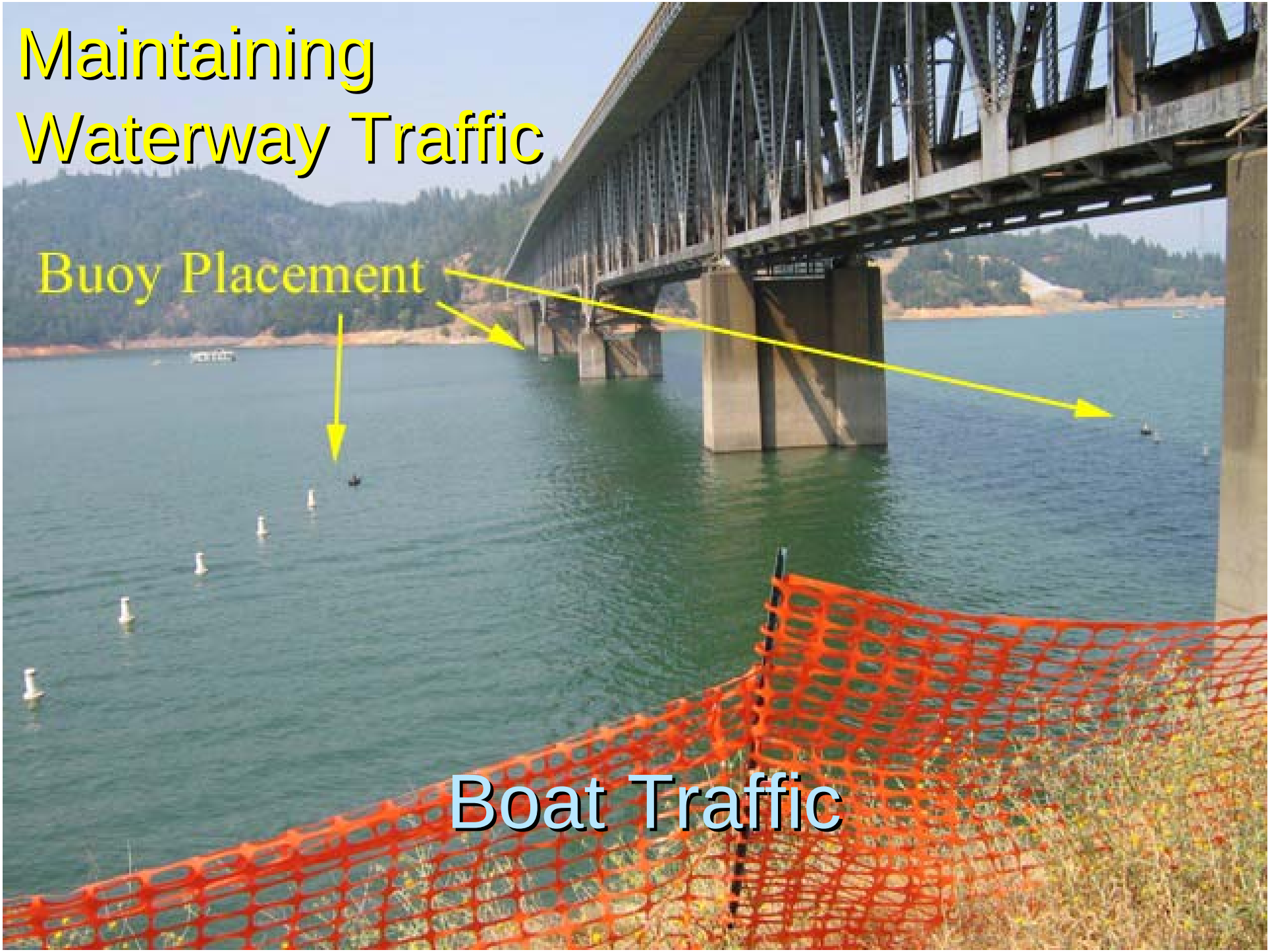

Quickdeck

Safespan




Safespan


Safespan


Maintaining
Waterway Traffic
Buoy Placement
Boat Traffic


Under the first contract:
Test slabs were cast and cured o
the bridge with various mixes to
ensure epoxy rebar would bond
adequately under vibrations from
train and truck traffic.


Pit River Deck
Replacement
Link-Belt


Stage #3 Construction between live traffic with limited access.
Southbound Traffic
Northbound Traffic
FRONTERAS DEL NORTE
FRONTERAS DEL NORTE

STATE OF CALIFORNIA B I D S U M M A R Y DEPARTMENT OF TRANSPORTATION BID245
PAGE 1
06/29/06

BID OPENING DATE 06/28/06
CONTRACT NUMBER 02-3C1414
LOCATION 02-SHA-5-R28.0/R29.0

IN SHASTA COUNTY NEAR SHASTA LAKE
CITY FROM 0.6 KM NORTH OF BRIDGE
BAY 0VERCROSSING TO 0.5 KM SOUTH OF
TURNTABLE BAY OVERCROSSING

CONTRACT CODE 'B '
68 CONTRACT ITEMS

CONSTRUCT NEW DECK

FEDERAL AID NONE

MBE GOALS: MINORITY BUSINESS ENTERPRISES - 0.0% WOMEN'S BUSINESS ENTERPRISES - 0.0% DISABLED VETERANS BUSINESS ENTERPRISES - 3.0%
PROPOSALS ISSUED 12 FUND TOTAL HA21 33,810,000 TOTAL NUMBER OF WORKING DAYS 605

NUMBER OF BIDDERS 4 ENGINEERS EST 27,731,346.60 AMOUNT UNDER 11,543,077.60 PERCENT UNDER EST 41.62

BID RANK	BID TOTAL	BIDDER ID	BIDDER INFORMATION (NAME/ADDRESS/LOCATION)	
1	16,188,269.00	3	GOLDEN STATE BRIDGE INC 901 HOWE ROAD MARTINEZ CA 94553	925 372-8000 SB PREF CLAIMED 00851187 FAX 925 372-8001
2	21,255,614.00	1	NEHEMIAH CONSTRUCTION INC 4790 E 2ND ST BENICIA CA 94510	707 746-6870 SB PREF CLAIMED 00869322 FAX 707 746-6815
3	21,583,451.00	2	J F SHEA CONSTRUCTION INC P O BOX 494519 REDDING CA 96049-4519	530 246-4292 CC PREF CLAIMED 00769989 FAX 530 246-9940
4	22,028,685.00	4	SHASTA CONSTRUCTORS INC P O BOX 491539 REDDING CA 96049-1539	530 365-3930 CC PREF CLAIMED 00494255 FAX 530 365-5465



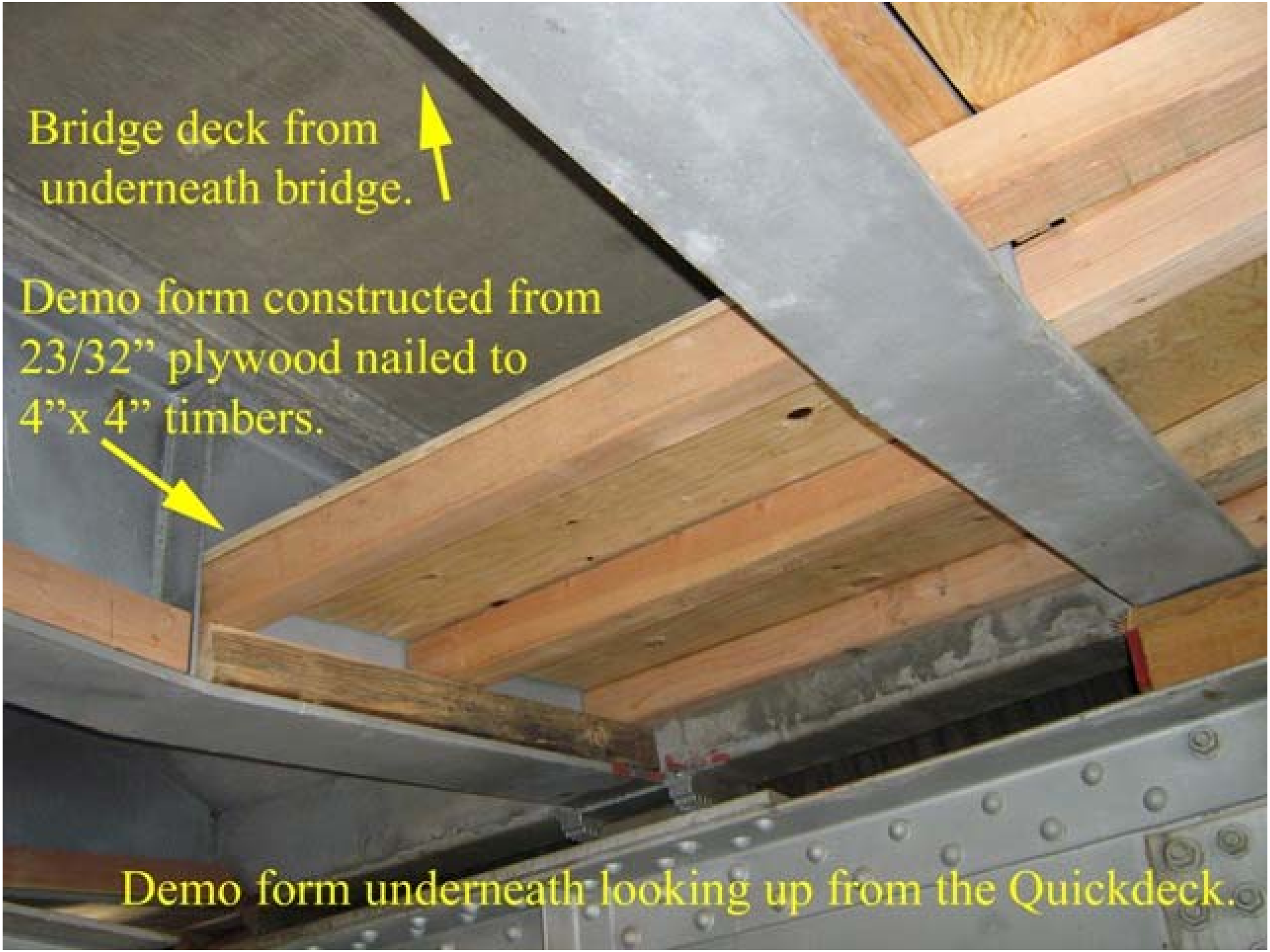

XXXX
XXXX

Demolition




Edge of deck
and barrier rail
demo.

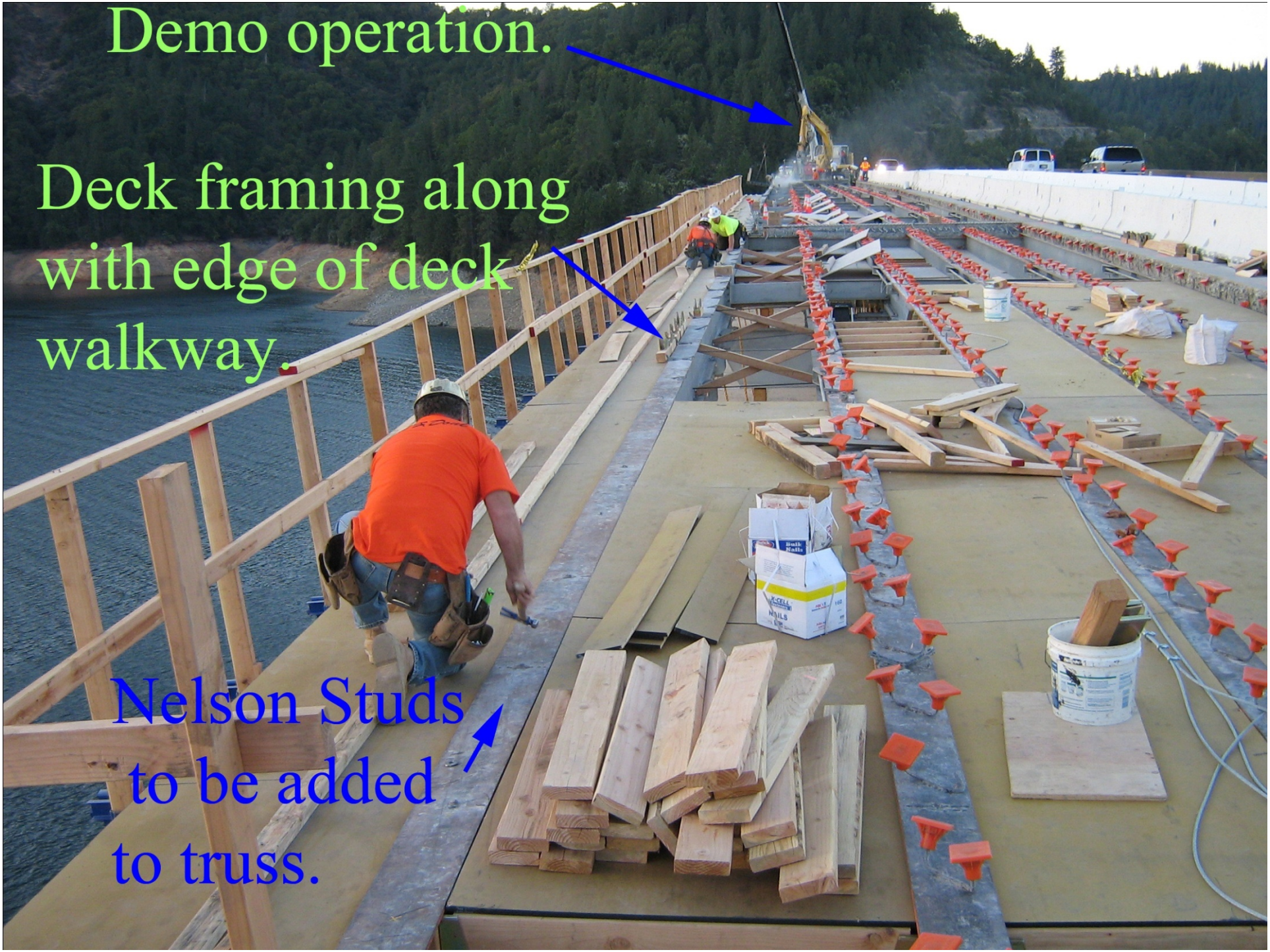

Deck pans in use during demo operation.


Bridge deck from underneath bridge.
Demo form constructed from 23/32” plywood nailed to 4”x 4” timbers.
Demo form underneath looking up from the Quickdeck.


Demo
deck
forming.

Forming with an As-Built grade.




Demo operation.
Deck framing along with edge of deck walkway.
Nelson Studs to be added to truss.

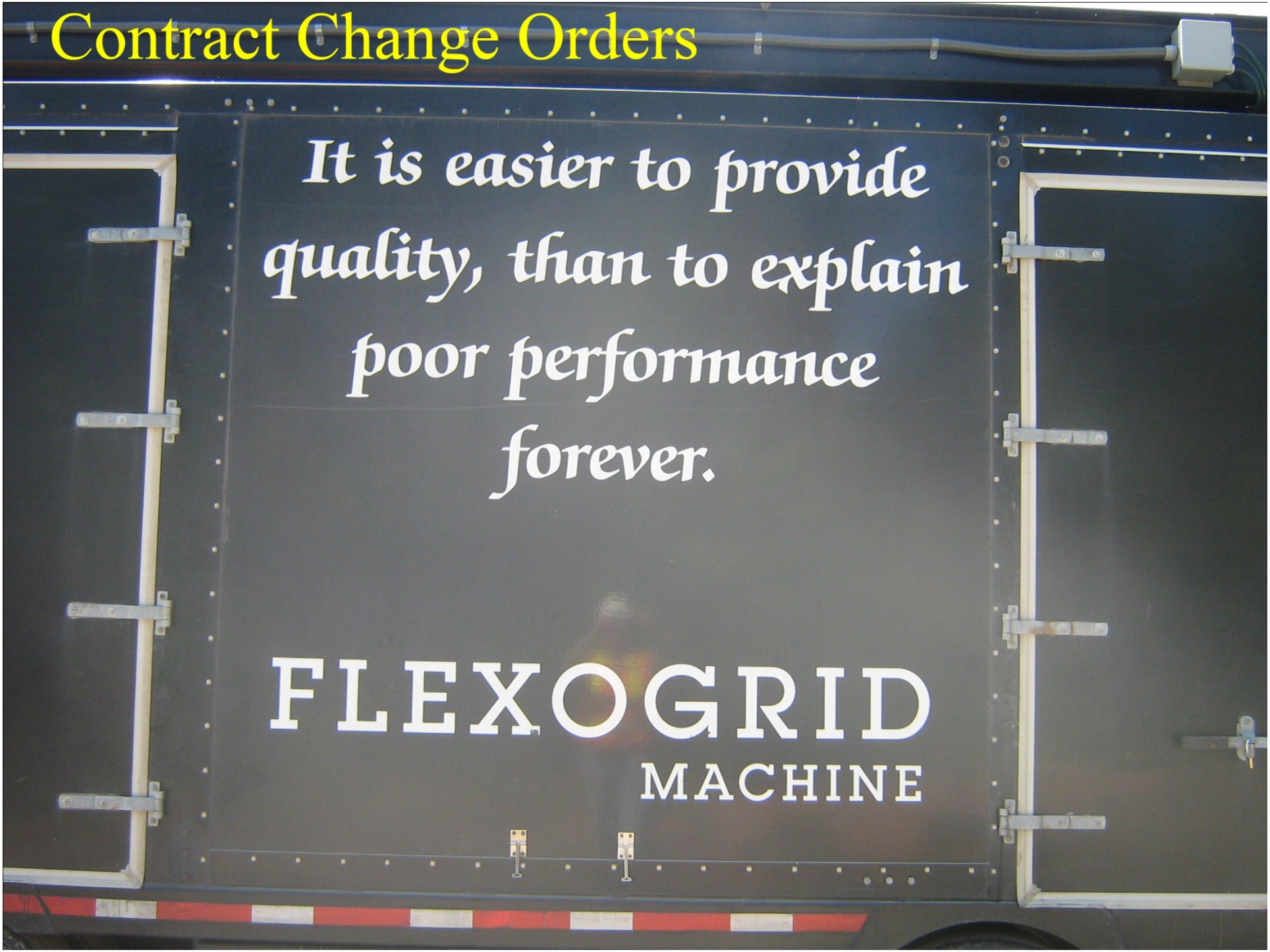

Deck forming system


Verifying the grade.

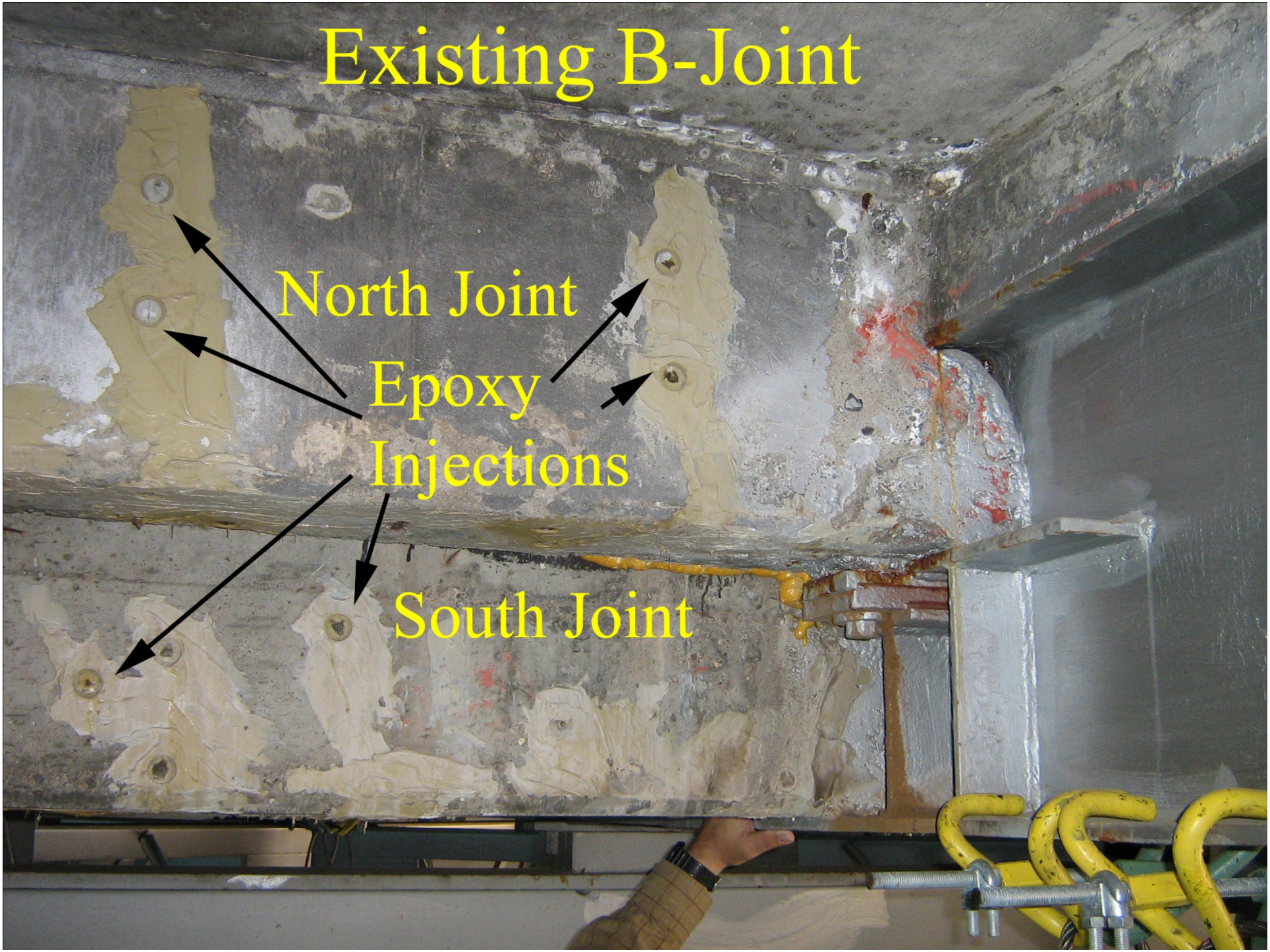

Construction
USF Reddaway


New Concrete Bridge Deck

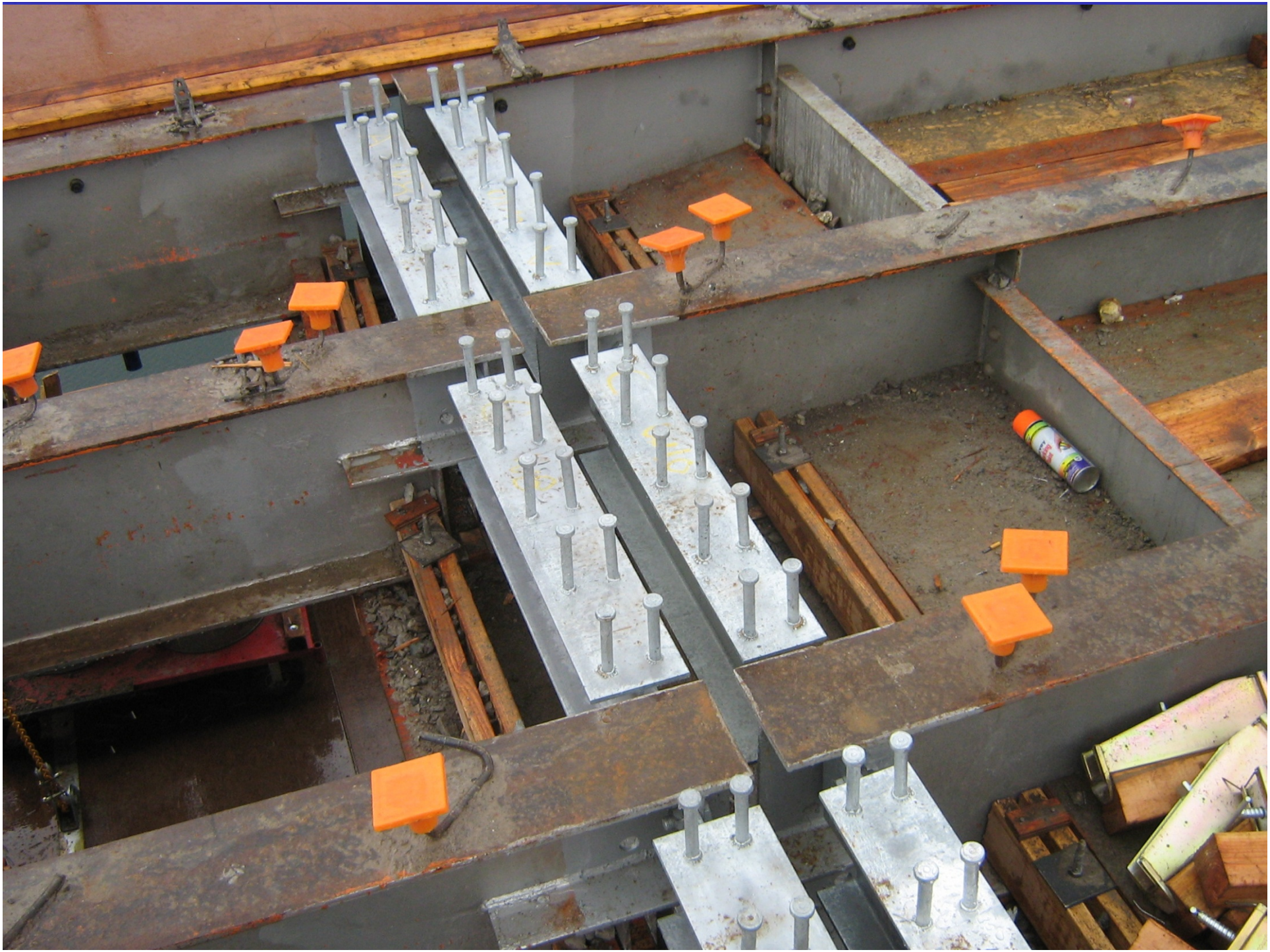
Contract Change Orders



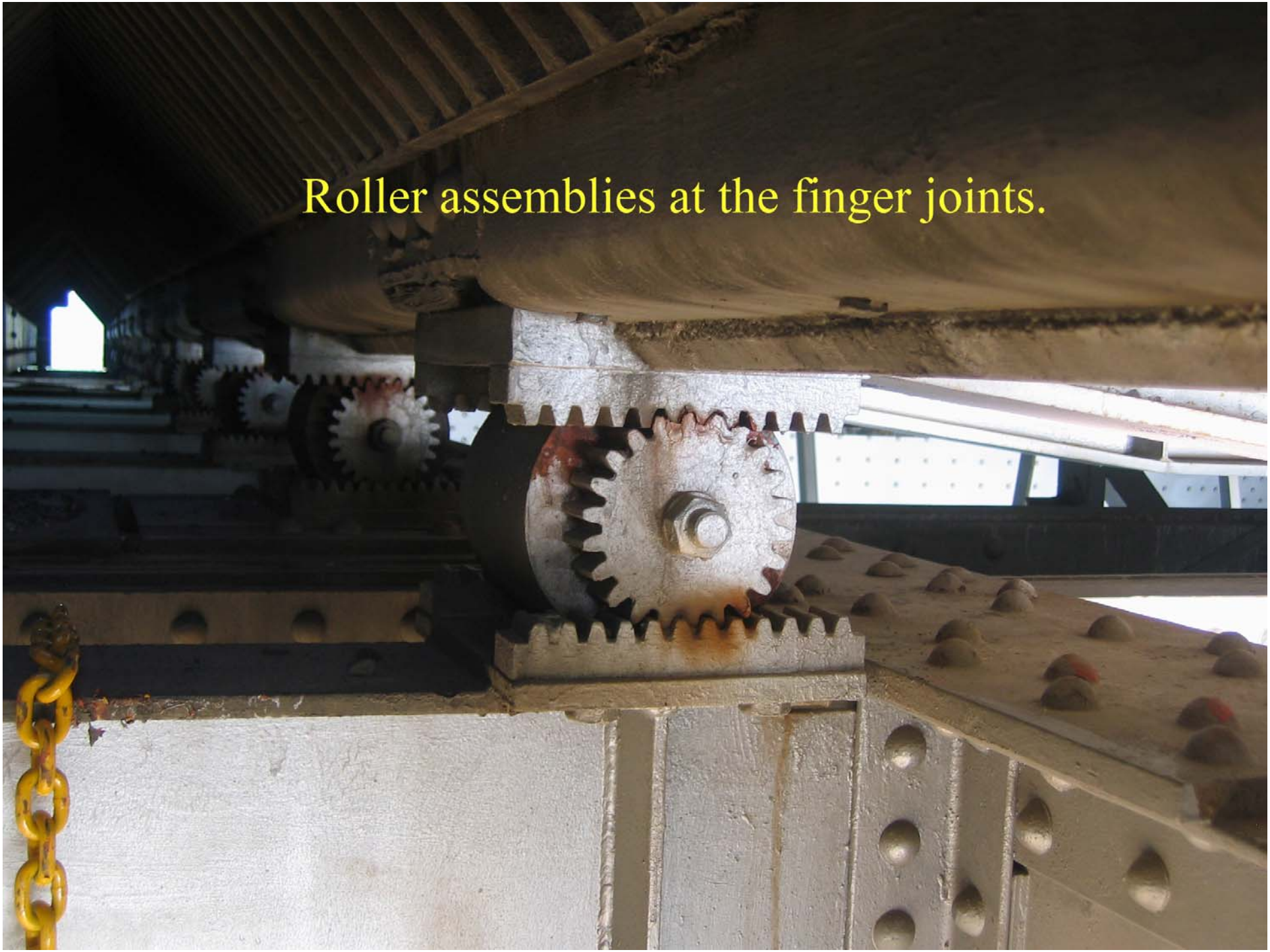



Existing B-Joint
North Joint
Epoxy
Injections
South Joint


Demo of the B-Joints
prior to lead abatement




Finger Joints

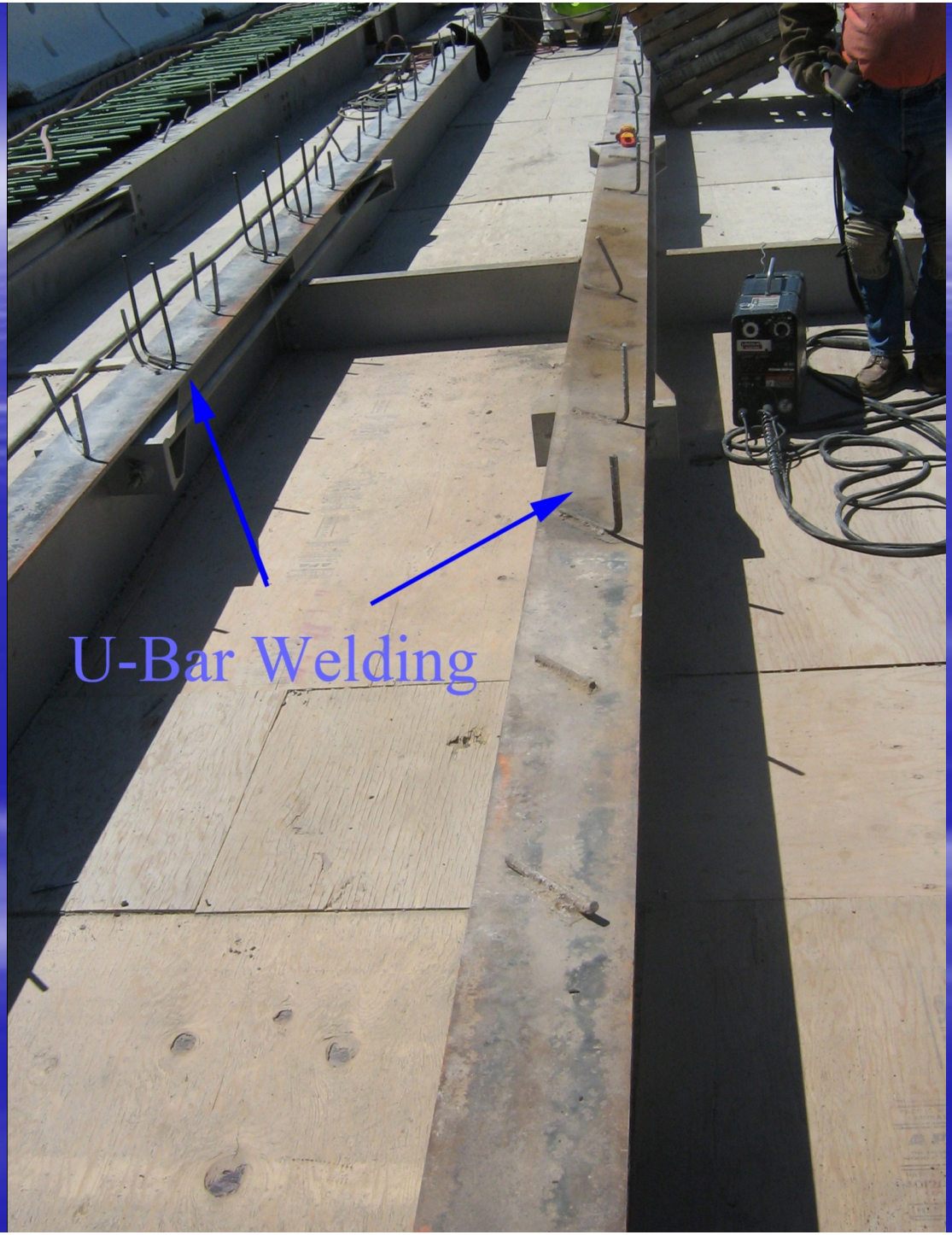

Roller assemblies at the finger joints.

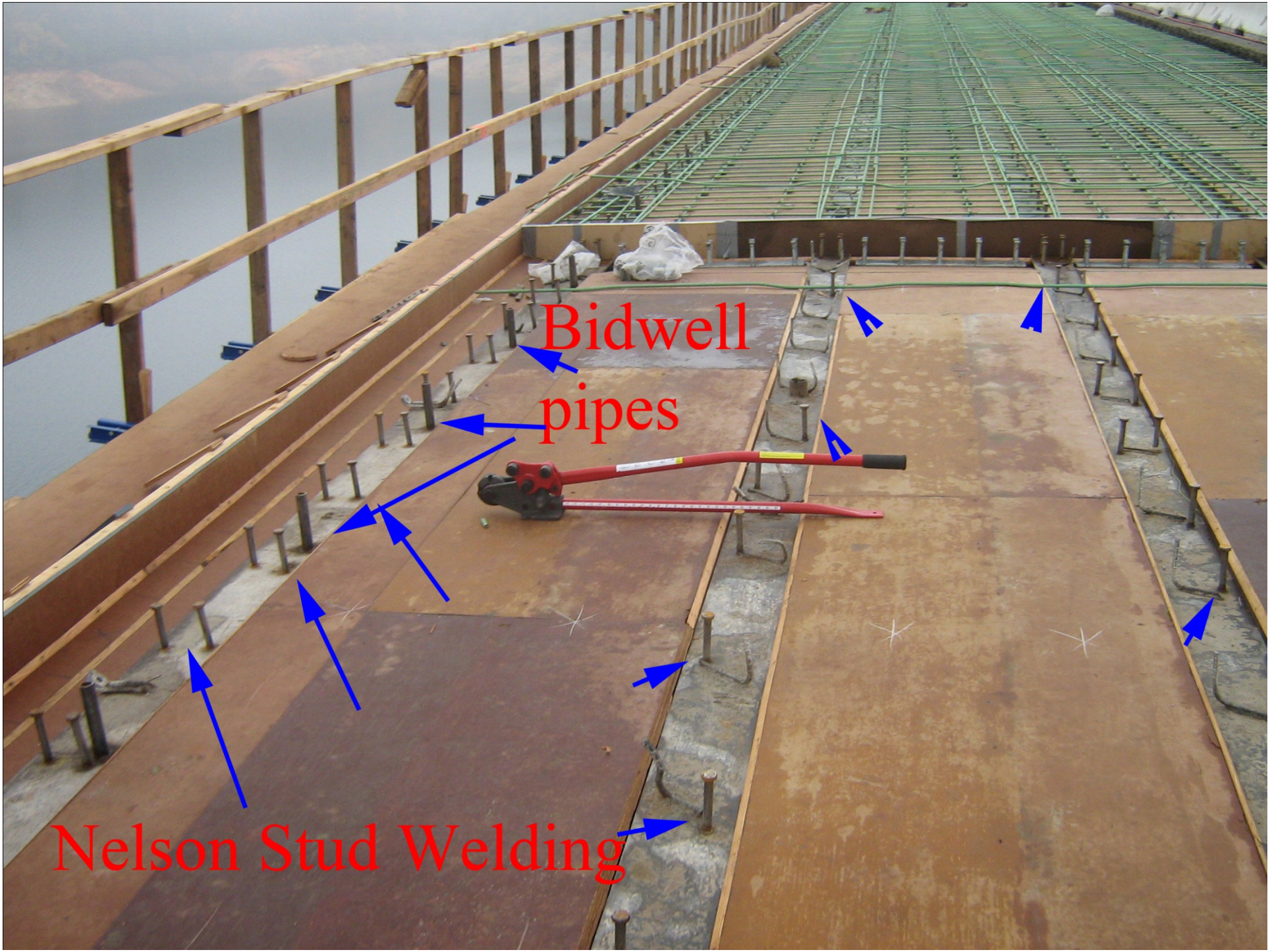

Roller assembly scheduled for replacement.

Condition of Existing Paint






U-Bar Welding

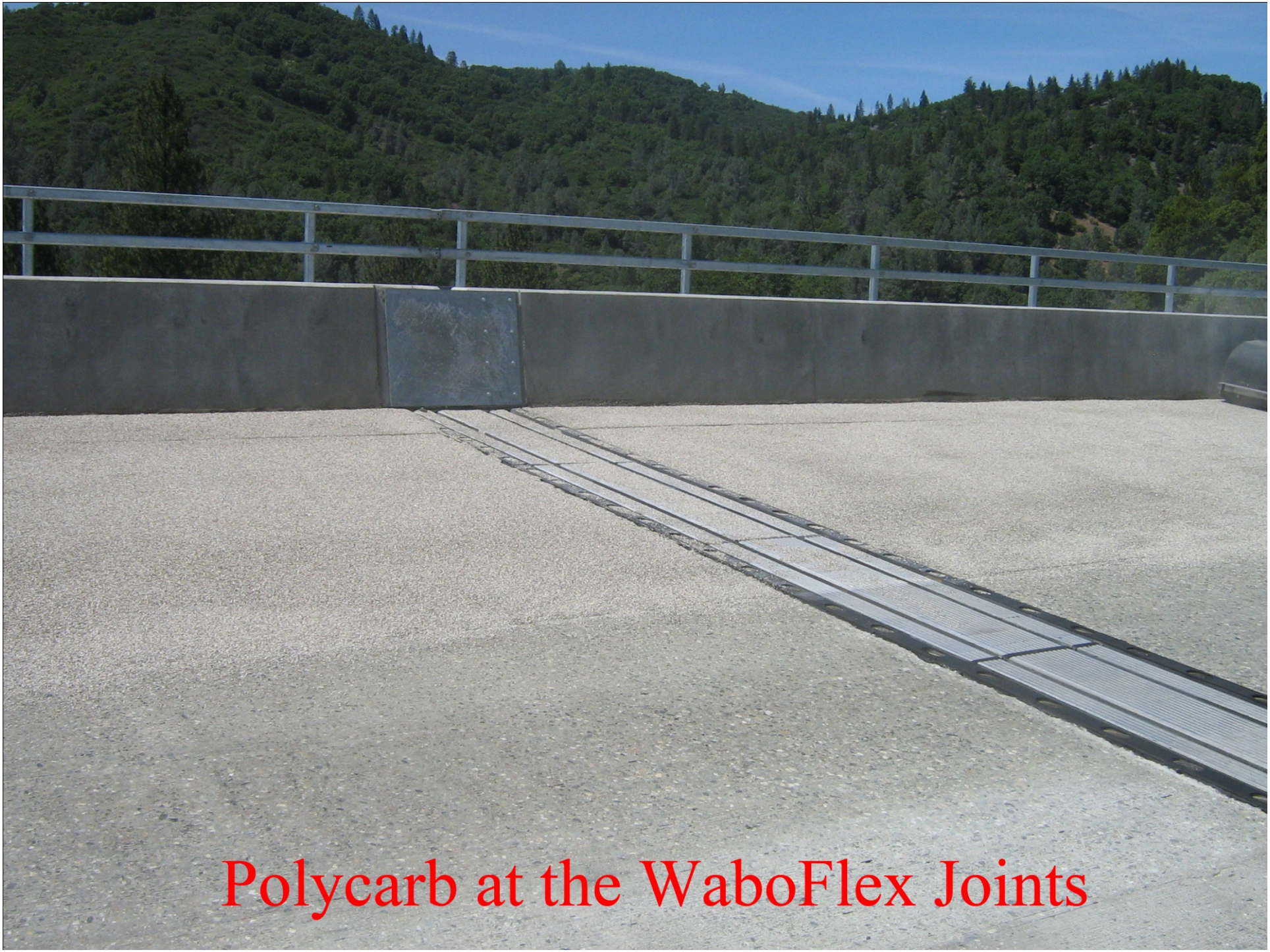

Bidwell
pipes
Nelson Stud Welding


Approaches Deck on Deck





Polycarb being applied to the bridge deck.

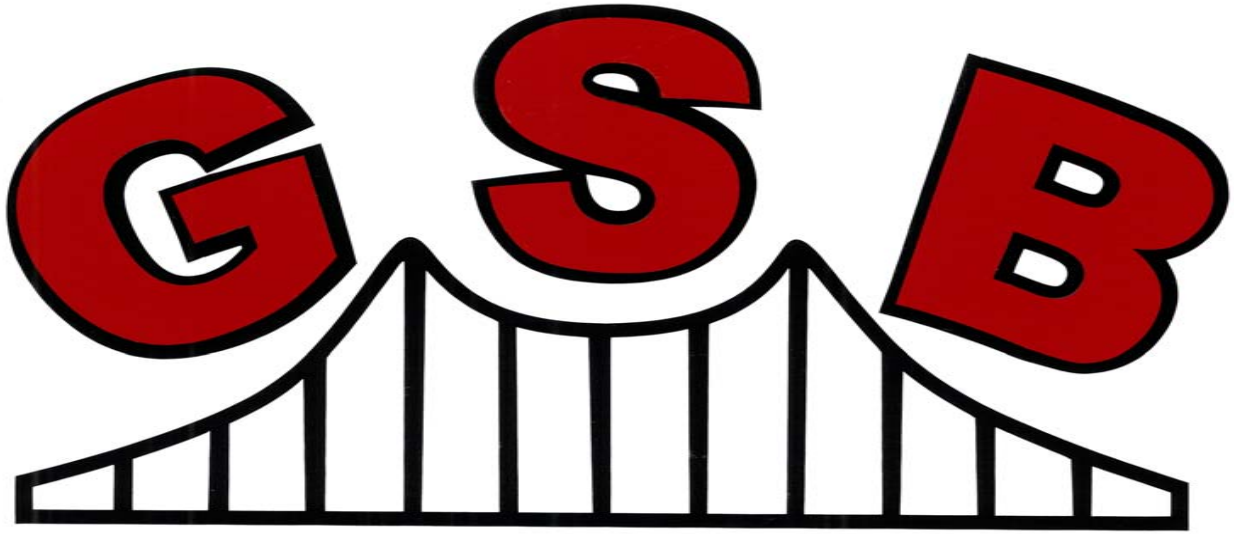

Polycarb at the WaboFlex Joints

Accidents-Lessons Learned




T-79
1WC7689
1832

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Martinez, Ca 94553
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