



OREGON DEPARTMENT OF TRANSPORTATION

Research Unit  
200 Hawthorne, Ste., B-240  
Salem, OR 97301

**SPR Quarterly Progress Report**  
July 1, 2009 through September 30, 2009

ph: (503) 986-2700  
fax: (503) 986-2844

Date November 4, 2009

**TO:** Technical Advisory Committee Members:

Tanarat Potisuk, Lochner, Inc.  
Stephen Burgess, Lochner, Inc.  
Jon Rooper, ODOT  
Craig Shike, ODOT  
Matthew Stucker, ODOT  
Steve Soltesz, ODOT  
Tim Rogers, FHWA

**FROM:** Steve Soltesz, Research Coordinator; phone: (503) 986-2851

**1. Project**

Flexural Steel Anchorage Performance at Diagonal Crack Locations  
SPR # 661

**2. Key Dates**

Start Date for ODOT: 12/1/07  
Completion Date for ODOT: 12/31/09

**3. Principal Investigator**

Dr. Christopher Higgins, Associate Professor  
Oregon State University  
Civil and Constr Engr  
348 Owen Hall  
Corvallis, OR 97331-3212

Phone: (541) 737-886

**4. Progress**

- Constructed IT #3 and #4
- Completed test IT #3 and #4
- Designed new T specimens based on IT results

- Cast specimens for T #1 to #4
- Tested T specimens #1, #2, #3, and #4
- Ductile anchorage failures observed for all T specimens
- Reduced data for specimens and compare with analytical predictions

**5. Problems**

- No significant problems encountered.

**6. Work Planned for Next Quarter**

- Reduce and interpret data from tests
- Develop analysis tools
- Prepare report

**7. Finances**

SPR Project Summary

<b>VENDOR</b>	<b>FY'08</b>	<b>FY'09</b>	<b>FY'10</b>	<b>FY11</b>	<b>TOTALS</b>
ORIGINAL BUDGET	\$ 80,000	\$ 170,000	\$ 90,000		\$ 340,000
<b>REVISED BUDGET</b>	\$ 15,300	\$ 109,239	\$ 175,461		\$ 300,000
EXPENDITURES - VENDOR	\$ 15,300	\$ 109,239	\$ -	\$ -	\$ 124,539
<b>BALANCE</b>	\$ -	\$ -	\$ 175,461	\$ -	\$ 175,461
<b>ODOT</b>	<b>FY'08</b>	<b>FY'09</b>	<b>FY'10</b>	<b>FY11</b>	<b>TOTALS</b>
ORIGINAL BUDGET	\$ 4,000	\$ 5,000	\$ 4,000		\$ 13,000
<b>REVISED BUDGET</b>	\$ 4,410	\$ 4,288	\$ 4,000		\$ 12,698
EXPENDITURES - ODOT	\$ 4,410	\$ 4,288	\$ 2,004	\$ -	\$ 10,702
<b>BALANCE</b>	\$ -	\$ -	\$ 1,996	\$ -	\$ 1,996
<b>PROJECT</b>	<b>FY'08</b>	<b>FY'09</b>	<b>FY'10</b>	<b>FY11</b>	<b>TOTALS</b>
ORIGINAL BUDGET	\$ 84,000	\$ 175,000	\$ 94,000	\$ -	\$ 353,000
<b>REVISED BUDGET</b>	\$ 19,710	\$ 113,527	\$ 179,461	\$ -	\$ 312,698
EXPENDITURES - PROJECT	\$ 19,710	\$ 113,527	\$ 2,004		\$ 135,241
<b>BALANCE</b>	\$ -	\$ -	\$ 177,457	\$ -	\$ 177,457