



## QUARTERLY PROGRESS REPORT

Project Title:	Instrumentation and Monitoring of Bridge Approach Slabs – Phase II		
RFP NUMBER: N/A	NJDOT RESEARCH PROJECT MANAGER: Robert Sauber and Nick Vittilo		
TASK ORDER NUMBER/Study Number: 99 / 4-26676	PRINCIPAL INVESTIGATOR: Hani Nassif		
Period Starting: 9/1/2002 - 9/31/2004 (Start-End Date of Study)	Period Ending: 3 <sup>rd</sup> Quarter 2003		

Task	% of Total	% of Task this quarter	% of Task to date	% of Total Complete
Instrumentation Plan and Field testing	30%	10%	70%	21%
Calibration of Sensors and DAS	20%	10%	30%	6%
Data Collection and LTRM	20%	20%	40%	8%
FEM Verification	10%	2%	8%	8%
Progress Reports & Technical Memorandum	15%	10%	50%	7.5%
Final Report	5%	0%	0%	0%
<b>TOTAL</b>	<b>100%</b>			<b>50.5%</b>

1. Progress this quarter by task:

- Download field data using data logger.
- Continued to visually monitor slabs for cracking.
- Developed a 3-D soil-Slab interaction FE model and compared results with 2-D model and test results.
- Prepared sensors for installation in Approach Slabs at South Abutment in Stage I
- Relocated equipment box from temporary location to south abutment wing wall.

2. Proposed activities for next quarter by task

- Continue FE modeling and verifying reading from various sensors.
- Improve design alternatives based on new data.
- Install UIC Fiber Optic and Rutgers' sensors in SA Approach slabs
- Perform Load testing of new slabs.
- Calibrate WIM Bending plate system in Approach slabs in Stage II SA location

3. List of deliverables provided in this quarter by task (product date)

N/A

4. Progress on Implementation and Training Activities

N/A

5. Problems/Proposed Solutions

N/A



# CAIT

Center for Advanced Infrastructure & Transportation  
Rutgers, The State University of New Jersey

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## 6. Budget Summary\*

Total Project Budget (# of years)	1 Year	NA add-on
Total Project Expenditure to date		NA add-on
% of Total Project Budget Expended		NA add-on
Task Order Number/Study Number:		99 / 4-26676
Current Task Order Budget (# of years)	Year 1	NA add-on
Actual Expenditure to date against current task order		NA add-on
% of current task order budget expended		NA add-on

\* These are approximate expended amounts for the project; these estimates are for reference only and should not be used for official accounting purposes. For a more accurate project accounting please review the quarterly invoice for this project.

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