Caltrans PO- 2660-0712000618-1
Dynamic Corridor Ramp Metering System (DCRMS) Project – Kickoff Meeting

September 27, 2012
Meeting Overview

- Project Team Composition
- Project Overview
- Work Plan Review
- Administrative Items
- Next 30 Days Look Ahead
Project Overview

• Develop framework for integrating Traffic Signal Data into Ramp Metering decision making process
• Identify Dynamic Corridor Traffic Signal interface components that will be used as part of the enhanced ATMS central ramp metering system
• Combine Traffic Signal data inventory and detection display within ATMS central ramp metering system implementation
Task 1 Project Management

• **Approach**
  – Coordinate scope, budget and schedule with Caltrans
  – Manage all aspects of the project
  – Provide monthly status updates

• **Deliverables**
  – Monthly Status Reports
  – Meeting Agenda and Minutes
  – Updated project schedule
DCRMS Work Plan Review

Task 2 - System Requirements Verification

• Approach
  – Develop clear concise system requirements
  – Track the origination of all requirements from design through test
  – Develop functional, performance and data requirements

• Deliverables
  – Draft Functional, Performance and Data Requirements Document
  – Final Functional, Performance and Data Requirements Document
DCRMS Work Plan Review

Task 3 – Graphical User Interface Design

• Approach
  – Develop sample mockup screens that incorporate the display of traffic signal data and ramp metering information
  – Identify and map GUI requirements to specific sample screens
  – Present new GUI screens to Caltrans via GUI Draft document

• Deliverables
  – Draft GUI Design Document
  – Final GUI Design Document
Task 4 – System Implementation

• Approach
  – Based on the requirements develop enhancements to the ATMS to support integration of Traffic Signal data into ATMS for display and ramp metering decision making
  – Perform software development with unit level testing, regression testing, and system integration testing
  – Develop the C2C Interface Control document for the integration of external Traffic Signal Data

• Deliverables
  – C2C Interface Control Document (Draft, Final)
  – DCRMS source code
Task 5 – System Testing

• Approach
  – Delcan will generate a detailed DCRMS Acceptance Test Plan to take into account subsystems, hardware, software, and communications components.
  – Test plans and procedures will be prepared using the following steps:
    • a review of requirements
    • development of the verification methodology
    • development and assignment of test cases
    • development of the test scenarios for each test case
    • development of detailed procedures of each test case.

• Deliverables
  – System Test Plan and Procedures (Draft, Final)
  – System Test Report
Project Schedule Overview

- Task 2 System Requirements  11/30/12
- Task 3 GUI Design Document  12/21/12
- Task 4 System Implementation  6/29/13
- Task 5 System Testing  8/31/13

Note: Detailed Schedule to be provided at 1st Monthly Status meeting.
Administrative Items

• Monthly Status Meetings
  – Propose 3rd Wednesday of the Month (Next: October 17th)

• Format of Status Reports
  – Work Completed this month
  – Key Milestone Dates
  – Issue Log
  – Work planned for next month
  – Updated Project Schedule

• Deliverable Approval/Invoicing
  – CMAS contract
Next 30 Day Look Ahead

• Investigate Traffic Signal Data formats and standards
• Initiate System Requirement Draft Document