MDOT University Region ITS Design-Build

Industry Meeting – August 17, 2010

MDOT

PB PARSONS BRINCKERHOFF 125 YEARS

AGENDA

- Procurement Method
- Project Goals
- Procurement Schedule
- MDOT Project Overview
  - ITS Devices and Work Locations
  - ITS Site Locations
  - ITS Communication Concept
- City of Lansing Project Overview
  - Traffic Signal Devices and Work Locations
  - Traffic Signal Site Locations
  - Traffic Signal Communication Concept
- Q & A

Procurement Method

- MDOT anticipates using a two-phase, best value process to select a Design-Builder
  - 1st phase: Request for qualifications (RFQ)
  - 2nd phase: Request for Proposals (RFP)
- MDOT anticipates the award for this project will be based on a Best Value determination
- Considering stipend

Project Goals

- The following goals have been established for the Project:
  - Safety - Provide a safe Project area for the traveling public and workers during execution of the Project;
  - Budget - Complete the Project within MDOT's established budget;
  - Quality - Provide a high quality Project that minimizes future maintenance;
  - Mobility - Minimize impacts to traffic;
  - Schedule:
    - Begin construction by the Spring of 2011;
    - Achieve Substantial Completion of construction for MDOT project elements by November, 2011 (see Section 2.2);
    - Achieve Substantial Completion of construction for City of Lansing project elements by April 2012 (see Section 2.2);
    - See Section 2.3 for the Procurement Schedule.

Procurement Schedule

PHASE 1 – REQUEST FOR QUALIFICATIONS (RFQ)	
RFQ Informational Meeting*	August 17, 2010
Deadline for submitting RFQ questions	August 18, 2010
Deadline for Addenda	August 18, 2010
SOQ due date and time	12 Noon, August 20, 2010
Evaluation of SOQs	August 23 – 27 , 2010
Anticipated Notification of short-listed Submitters	August 25, 2010

Procurement Schedule - cont

PHASE 2 – ANTICIPATED SCHEDULE– REQUEST FOR PROPOSALS	
Anticipated Issuing of RFP to shortlisted Submitters	September 1, 2010
Proposal and Scoring Process Meeting	September 8, 2010
ATC One on One Meetings	September 20 – 24, 2010 by appointment October 4 – 8, 2010 by appointment
Deadline for submitting RFP questions	October 8, 2010
Deadline for Addenda	October 15, 2010
Technical Proposals due	October 29, 2010
Evaluation of Technical Proposals	November 1 – November 17, 2010
E-proposal bid opening	November 18, 2010
Notice to Proceed	December 2010

MDOT Project Overview

- The Project is located in MDOT's University Region and the City of Lansing.
- Currently anticipating to include the design, installation, and integration of the following primary elements:
  - Four (4) DMS at locations along I-96 and US-127;
  - Six (6) CCTV Cameras at locations along I-96 and US-127/I-496;
  - Five (5) MVDS at locations along I-96 and US-127/I-496;
  - Eight (8) Environmental sensors along I-96 and US-127/I-496;
  - A 300' communications tower;
  - Hybrid (wireline/wireless) communication network for MDOT and the City of Lansing;
  - A traffic signal communication system for the City of Lansing, consisting of fiber optic interconnect, tie-in to existing City network locations.

MDOT – ITS Devices and Work Locations

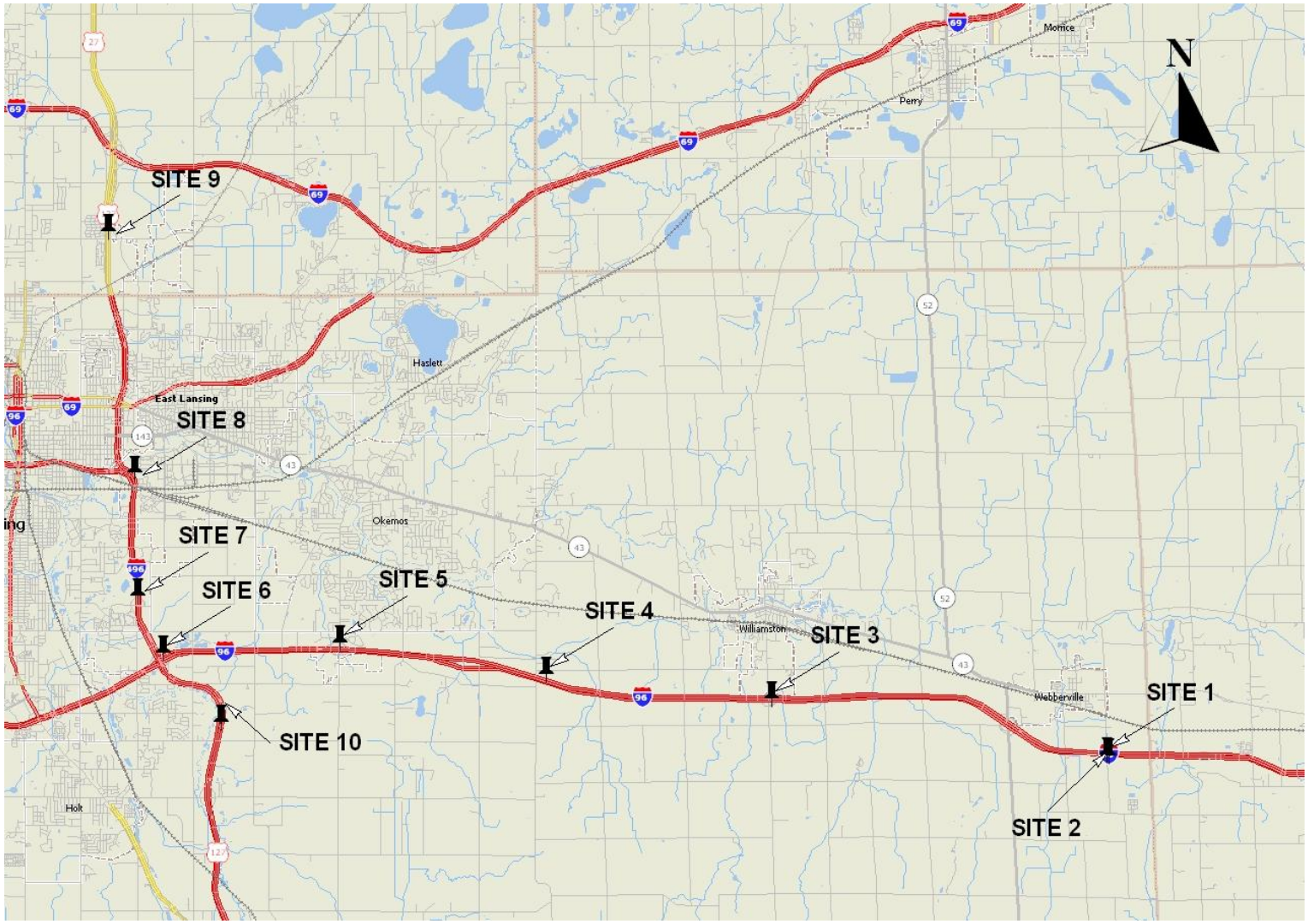
- The currently anticipated ITS devices and work locations include the following:
  - Site 1 & 2: One (1) DMS, one (1) CCTV and one (1) MVDS on westbound I-96 approximately 2 miles east of Exit 122 (Webberville)
  - Site 3: One (1) CCTV Camera on westbound I-96 near Exit 117 (Williamston)
  - Site 4: One (1) DMS, two (2) pavement sensors, and one (1) visibility sensor on westbound I-96 approximately 300' east of Meridian Rd.
  - Site 5: One (1) CCTV Camera and one (1) MVDS on westbound I-96 at Exit 110 (Okemos Rd.)
  - Site 6: One (1) 300' communication tower, one (1) CCTV Camera, and one (1) MVDS on westbound I-96 near the ramp to northbound US-127
  - Site 7: One (1) CCTV Camera and one (1) MVDS on northbound US-127 at Dunckel Rd.
  - Site 8: One (1) CCTV Camera, one (1) MVDS, one (1) pavement sensor, and one (1) visibility sensor on northbound US-127 at Trowbridge Rd.
  - Site 9: One (1) DMS on southbound US-127 approximately 300' north of State Rd.

MDOT – ITS Devices and Work Locations - cont

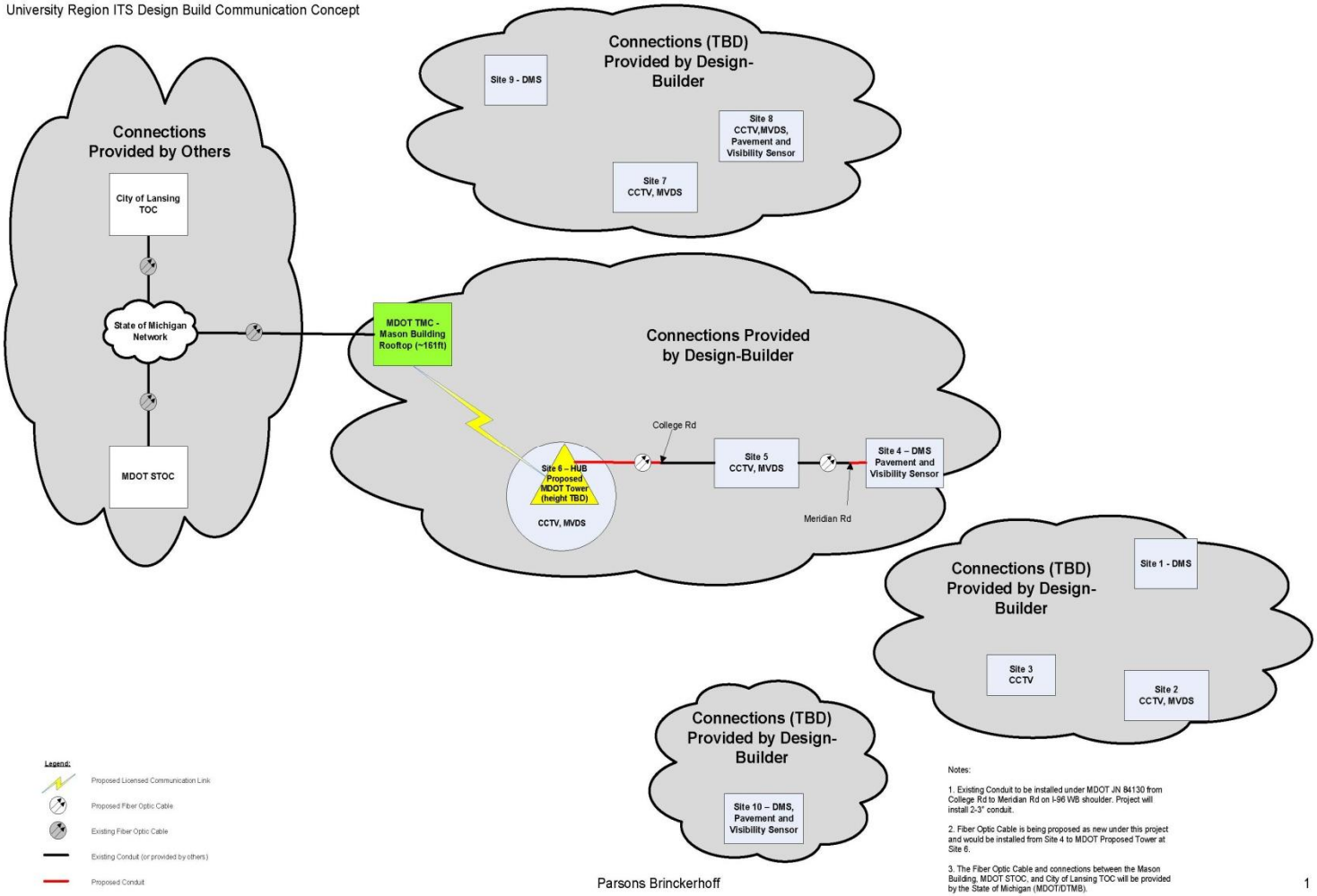
- Site 10: One (1) DMS, two (2) pavement sensors ,and one (1) visibility sensor on southbound US-127 approximately 200' south of Willoughby Rd.
- Conduit: MDOT installing two (2) – three (3) inch conduits on WB shoulder of I-96 between College Rd. and Meridian Rd. Conduit will be made available to the Design-Builder at Notice To Proceed (NTP). This project will extend conduit to Site 6 and Site 4.
- Fiber: This project to install fiber along I-96 between Site 6 and Site 4.
- Mason Building: Existing rooftop communication tower for wireless backhaul from field. Demarcation point between Design-Builder and the State of Michigan networks.
- MDOT Statewide Traffic Operations Center (STOC): MDOT head-end, using Statewide ATMS. Connection from Mason Building to STOC made by others using State of Michigan network. Design-Builder responsible for integration into existing ATMS at STOC.
- City of Lansing Traffic Operations Center (TOC): City of Lansing head-end, using Statewide ATMS. Connection from Mason Building/STOC to TOC made by others using State of Michigan and/or City of Lansing network(s). Design-Builder responsible for integration into existing ATMS at STOC. pn2

pn2 Updated based on City section
nurp, 8/12/2010

MDOT – ITS Site Locations



MDOT – ITS Communication Concept



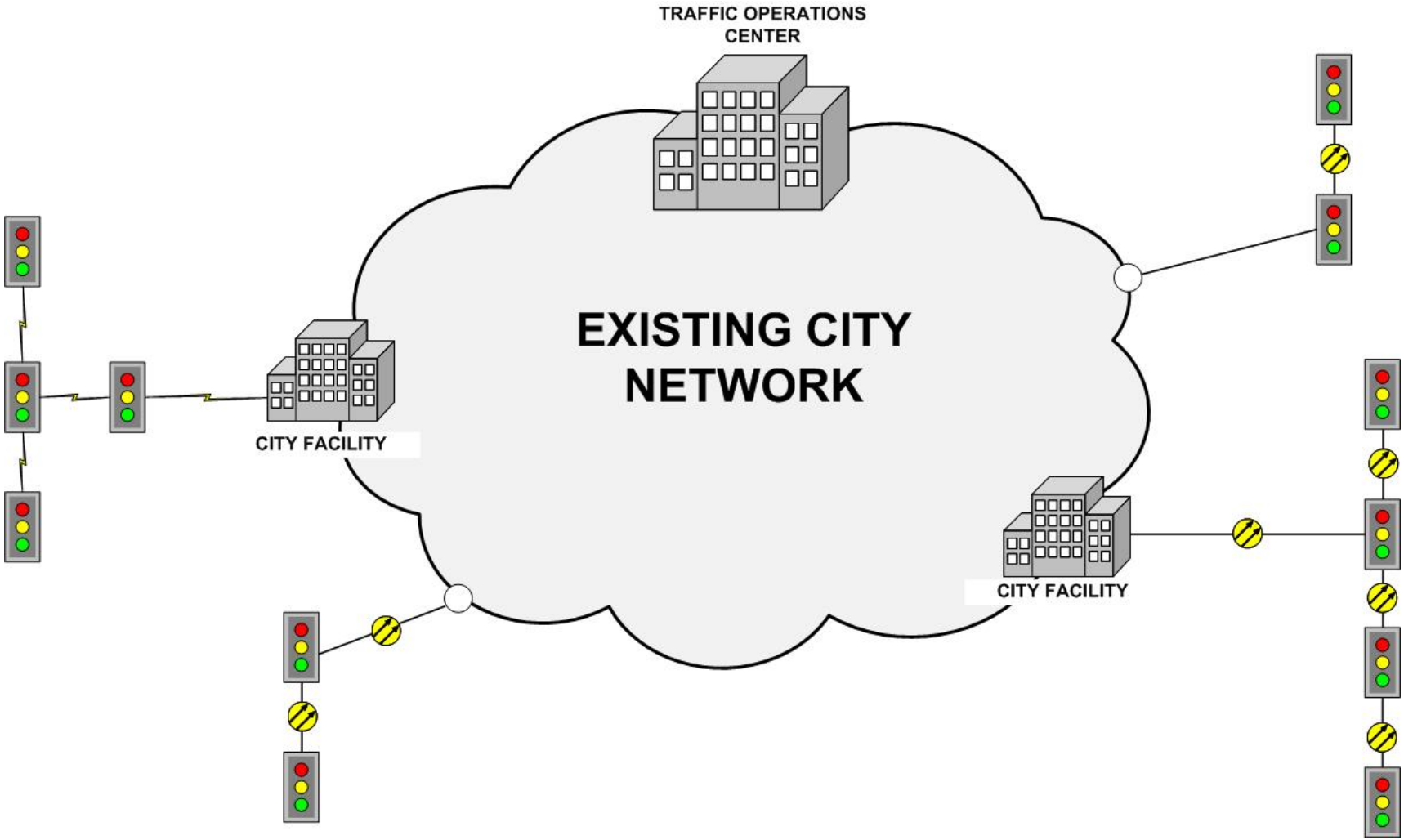
City of Lansing Project Overview

- Currently anticipating to include the design, installation, and integration of the following primary elements:
  - 4-ChannelVideo Encoders at approximately 27 intersections. Will encode video from existing Iteris Vantage video detectors;
  - Terminal servers at approximately 109 intersections to enable signal controller communications over Ethernet.
  - Connections to existing City IP/Ethernet network at various intersections and/or public facilities;
  - Wireless links: Low bandwidth (500Kbps) and medium bandwidth (5Mbps);
  - Fiber optic cable installed aerially or underground.

City of Lansing – Traffic Signal Devices and Work Locations

- See handout

City of Lansing – Traffic Signal Communication Concept



Q & A