

Maryland
Transportation
Authority

Martin O'Malley
Governor

Anthony Brown
Lt. Governor

Beverley K. Swaim-Staley
Chairman

Peter J. Basso
Rev. Dr. William C. Calhoun, Sr.
Mary Beyer Halsey
Louise P. Hoblitzell
Richard C. Mike Lewin
Isaac H. Marks, Sr., Esq.
Michael J. Whitson
Walter E. Woodford, Jr., P.E.

Harold M. Bartlett
Acting Executive Secretary

Division of Procurement and
Statutory Program Compliance
2310 Broening Highway
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Baltimore MD 21224
410-537-6769
410-537-1044 (fax)
410-355-7024 (TTY)
1-866-713-1596

e-mail: mdta@
mdtransportation
authority.com

www.mdtransportation
authority.com



August 18, 2010

TO ALL PURCHASERS OF CONTRACT DOCUMENTS:

RE: **Contract No. BB 972-000-006**
Route 50 Dynamic Message Signs Replacement

ADDENDUM NO. 2

To Whom It May Concern:

It is important that you acknowledge receipt of this Addendum No. 2 on the referenced contract regardless if you will be bidding or not bidding.

Very truly yours,

Ben Mondell
Procurement Administrator

Enclosures

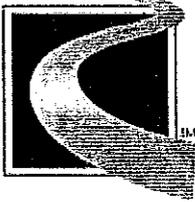
Contract No. **BB 972-000-006**

This will acknowledge receipt of the attached Addendum No.2.

_____ NAME OF COMPANY	
_____ SIGNATURE	_____ DATE

THIS SIGNED ADDENDUM ACKNOWLEDGEMENT PAGE SHALL BE RETURNED TO THIS OFFICE VIA FAX AT 410-537-7801, ATTENTION: MAGGIE JOHNSON PRIOR TO THE BID OPENING DATE.

IN ADDITION, THIS SIGNED ADDENDUM ACKNOWLEDGEMENT PAGE MUST BE ATTACHED TO THE OUTSIDE COVER OF THE BID BOOK. FAILURE TO DO SO MAY RESULT IN REJECTION OF YOUR BID.



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August 18, 2010

TO ALL PURCHASER'S OF CONTRACT DOCUMENTS

ADDENDUM NO. 2

RE: Contract No. BB972-000-006
Route 50 Dynamic Message Signs Replacement

To Whom It May Concern:

- A. The Bid Due Date for the above referenced contract is September 2, 2010 at 12:00 Noon.
- B. The following changes have been made to the Invitation for Bids book:
1. Delete pages 050, 051, 055, 060, 061, 092, 113, 161, and 162 and replace with pages numbered the same dated August 12, 2010 Addendum # 2.
 2. Delete plan sheets 1, 2, and 25 and replace with pages numbered the same dated August 12, 2010 Addendum # 2.

Very truly yours,

Ben Mondell
Procurement Administrator

BM/mdj

THIS ADDENDUM SIGNED ACKNOWLEDGEMENT PAGE MUST BE ATTACHED TO THE OUTSIDE COVER OF THE BID BOOK. FAILURE TO DO SO MAY RESULT IN REJECTION OF YOUR BID.

Responses to Submitted Questions

Question: Nowhere in the IFB is there pay item for concrete foundation for the proposed overhead structures, where are we being paid for these?

Response: Delete pages 050, 051, 055, 060, 061, 092, 113, 161, and 162 and replace with pages numbered the same dated August 12, 2010 Addendum # 2. Delete plan sheets 1, 2, and 25 and replace with pages numbered the same dated August 12, 2010 Addendum # 2.

Question: On page 60 of the bid book it states, "Payment for furnishing and installing other item associated with this work including static sign panels, sign structure, catwalks, spacer frames, hardware and maintenance of traffic will be measured and paid under the pertinent bid items in the contract." Please clarify if these items are incidentals or are they being paid under the bid item. In specific, the sign structures and maintenance of traffic items.

Response: Delete pages 060 and replace with pages numbered the same dated August 12, 2010 Addendum # 2.


Approved



Maryland
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SPECIAL PROVISIONS

CONTRACT NO. BB-972-000-006
Route 50 Dynamic Message Signs
Replacement
Section 2-1 General Requirements
Page 1 of 5

SP 2-1 GENERAL REQUIREMENTS

This project is located on US 50 in Queen Anne's County, Maryland. The Maryland Transportation Authority ("Authority") desires to remove one existing dynamic message sign and install two new dynamic message signs ("DMS") at two locations on westbound US Route 50, in advance of the Chesapeake Bay Bridge. First location is at US 50/301 west bound at Cox Creek, west of the Kent Narrows Bridge. The second location is at US 50 west bound between MD 213 (Centreville Road) and MD 404 (Queen Anne Highway).

The two DMS installations located on US 50 include:

- Remove existing DMS and support structure 870 as shown on the plans;
- Refurbish and reuse the existing cabinet for new sign installation;
- Replace removed DMS with a new DMS on a new overhead structure and foundation on westbound US 50, about 400 ft. west of the Kent Narrows Bridge; and
- Install new DMS and new overhead structure and foundation on westbound US 50, about 0.6 miles west of MD 213.

SP 2-1.1 Existing DMS System Equipment

The existing DMS system equipment includes:

- Authority Operations Center (AOC) components.
- Field components including an existing DMS sign located 400 ft west of the Kent Narrows Bridge
- Communications components

SP 2 -1.1.1 Operations Center Components

The existing AOC components consist of a primary and secondary traffic computer, which support asynchronous serial communications to existing proprietary field controllers and Remote Communications Units ("RCU") located in field cabinets where DMS are mounted.

At all times during execution of this contract, the Contractor shall coordinate any and all work associated with the new DMS units, communications, control/status signals with the Authority Operations Center personnel or the MdTA Project Engineer, as directed.



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CONTRACT NO. BB-972-000-006
Route 50 Dynamic Message Signs
Replacement
Section 2-1 General Requirements
Page 2 of 5

SP 2 -1.1.2 Field Components

The existing field components consist of an existing DMS sign installed over a cantilever structure located 400 ft west of the Kent Narrows Bridge, existing field cabinet adjacent to the sign structure, device server/controller located in the field cabinet, and the communications components. The existing DMS sign and the cantilever structure holding the sign are to be removed and disposed off under this contract. The existing field cabinet adjacent to existing structure will be refurbished and reused for the new DMS sign installation. The existing system controller or device server will be replaced by a new device server/controller under this contract.

SP 2 – 1.1.3 Existing Communications

For the new DMS signs installed under this contract, the communications scheme will be modified to use Integrated Services Digital Network (ISDN) system network to link new DMS signs with the operations center. The contractor shall salvage and submit all the existing communications components to the Authority.

SP 2 – 1.2 Staff and System at the Operations Center

The operators at the AOC are responsible for DMS operations. Operational procedures for DMS sign message displays are well-defined using predefined messages, as well as tailored modifications configured using the DMS software, which permit development of custom display messages as per Authority's need.

SP 2 – 1.3 General Scope of the Project

The scope of the project includes, but is not limited to:

- Removal of existing structure 870, as indicated on plans, including existing DMS sign, mounting brackets, bars and clamps, conduits and cabling, etc. mounted on the structure;
- Refurbishing of the existing Type A cabinet to “like-new” condition to be reused for the new sign installation on a new overhead structure S-1 (8870);
- Installation of wiring and conduits between new DMS (1) and the existing cabinet to be refurbished by the contractor, as shown on the Plans;
- Installation of two new overhead sign structures and foundations, S-1 (8870) and S-2 (8201), as shown on the plans including mounting brackets, bars and clamps, and cabling, etc. needed for installation of new DMS signs;
- Procurement of two new DMS Type I signs to be furnished through the MA727-000-02 Contractor for installation under this contract;



SP 2-2 INSTALLATION OF DYNAMIC MESSAGE SIGNS AND CONTROLLERS

This work shall consist of installing two new overhead structures and foundations S-1 (8870) at DMS (1) and S-2 (8201) at DMS (2), two new Dynamic Message Signs (DMS) and Controllers at locations as shown on the plans. This equipment has been purchased by the Authority under separate contract and will be provided to the contractor as required. The contractor will be required to coordinate and schedule ordering of the equipment with the Authority. There is a minimum 12 weeks lead time for delivery of the equipment to the site after placement of order. The contractor will be responsible for coordinating and working with the DMS Manufacturer (Daktronics, Inc.) representative during delivery, installation, commissioning, and final acceptance of the DMS and controllers.

SP 2-2.1 GENERAL REQUIREMENTS

This item consists of installing new overhead structures and foundations at DMS (1) and DMS (2), Dynamic Message Signs and Sign Controllers and replacing existing DMS and controller, respectively, in accordance with the Plans and Special Provisions, or as directed by the Engineer. The DMS and Controllers shall operate as part of an integrated Traffic Control System, including the central system, new communications network, and field cabinets.

The DMS Manufacturer will be responsible for providing the following:

- Supplying the Dynamic Message Sign (ready for installation);
- Supplying the DMS Controller with latest software/firmware;
- Supplying the communications cable from the controller cabinet to the DMS (The DMS Manufacturer shall supply up to 150 feet of fiber optic cabling for controller to DMS communications);
- Providing the final connections and testing of communications cable;
- Means to disconnect sign power at the DMS;

The Contractor will be responsible for providing the following:

- Providing all information necessary for the DMS order 12 weeks prior to the date when the DMS is needed on site. The information shall include but not be limited to contact information for the contractor's representative responsible for site delivery coordination, the location within Maryland to which the DMS shall be delivered, the DMS number or other plan reference, the proposed delivery date to the site, and a signed order form. The delivery date may not be delayed more than 30 calendar days from the originally proposed delivery date.



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the sign.

Earth ground rods or grounding systems that exceed the above resistance limit may require the contractor to use corrosion proof grounding systems, such as those offered from Lyncole (www.lyncole.com) or equal.

The contractor shall also supply an industry standard surge protector(s), with appropriately warranted voltage range protection, within the field cabinet to provide surge protection. The Contractor shall submit cut sheets of the proposed surge protector to Authority's engineer for approval before installation.

SP 2-2.4 MEASUREMENT AND PAYMENT

Removal of Existing Dynamic Message Signs (DMS) will be measured per each. Work will include removal of DMS, removal of DMS support structure, all incidentals, and delivery to and from site as determined by the Authority.

Install concrete sign foundations for two overhead structures S-1 (8870) and S-2 (8201) will be measured per cubic yard. The payment shall be full compensation for all concrete, excavation, corrugated metal piper or forms, reinforcement steel, anchor bolts, backfill and for all material labor, equipment; tools and incidentals necessary to complete the work. The Authority will make payments of the above items only upon completion of the foundation.

Purchase and Installation of the two overhead structures S-1 (8870) and S-2 (8201) will be measured per each. The payment shall be full compensation for all materials, labor, equipment and all other incidentals necessary to complete this work. The Authority will make payment for the above items only upon completion of the installation of the structures. Installation of Dynamic Message Signs Type I with Integrated Controllers will be measured per each. The payment shall be full compensation for all materials, labor, equipment and all other incidentals necessary to complete this work. The Authority will make payment for the above items only upon completion of the installation, commissioning and testing of the DMS and acceptance by the Authority.



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Authority

SPECIAL PROVISIONS

CONTRACT NO. BB-972-000-006
Route 50 Dynamic Message Signs
Replacement

Page 7 of 7

The payment shall be full compensation for all materials, labor, equipment and all other incidentals necessary to complete this work. The Authority will make payment for the following items only upon completion of the installation and commissioning of the DMS and acceptance by the Authority.

Item 8001	REMOVE EXISTING DYNAMIC MESSAGE SIGN	Each
Item 8002	INSTALL TYPE I DYNAMIC MESSAGE SIGNS WITH INTEGRATED CONTROLLERS AND FURNISH AND INSTALL CATWALKS	Each
Item 8004	INSTALL NEW OVERHEAD STRUCTURE S-1 (8870)	Each
Item 8005	INSTALL NEW OVERHEAD STRUCTURE S-2 (8201)	Each
Item 8014	CONCRETE FOR SIGN FOUNDATION	Cubic Yard.



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CONTRACT NO. BB-972-000-006
Route 50 Dynamic Message Signs
Replacement

Page 1 of 1

SP 2 – 7 CONSTRUCTION SEQUENCING

SP 2 – 7.1 General

All installation, testing, and other activities undertaken by the Contractor, shall be designed to have the least impact on traffic operations and shall be conducted in close coordination with MdTA Police, Operations personnel, and the MA727-000-002 and MA328-000-06 Contractors. Restrictions related to Maintenance of Traffic shall be as stipulated in Section 104 of the Special Provisions as amended in these Specifications.

SP 2 – 7.2 Order of Construction

Order of construction shall be as follows:

1. Removal of existing DMS sign and the overhead structure 870.
2. Installation of new sign foundations and new overhead structures S-1 and S-2.
3. Installation of new or refurbished field cabinets and other roadside elements such as wiring, conduits, etc.
4. Installation of two new DMS signs.
5. The Contractor may conduct work at one or more sites concurrently.



SPECIAL PROVISIONS INSERT

6004	FURNISH AND INSTALL TYPE C TRAFFIC BARRIER END TREATMENT	PER EACH
6005	FURNISH AND INSTALL TRAFFIC BARRIER W-BEAM	PER LINEAR FOOT
8001	REMOVE EXISTING DYNAMIC MESSAGE SIGN	PER EACH
8002	INSTALL TYPE I DYNAMIC MESSAGE SIGNS WITH INTEGRATED CONTROLLERS AND FURNISH AND INSTALL CATWALKS	PER EACH
8003	REMOVE EXISTING OVERHEAD STRUCTURE 870	PER EACH
8004	INSTALL NEW OVERHEAD STRUCTURE S-1 (8870)	PER EACH
8005	INSTALL NEW OVERHEAD STRUCTURE S-2 (8201)	PER EACH
8006	FURNISH AND INSTALL BASE MOUNTED CABINET	PER EACH
8007	REFURBISH EXISTING FIELD EQUIPMENT CABINET	PER EACH
8008	FURNISH AND INSTALL NEW GRS CONDUIT	PER LINEAR FOOT
8009	FURNISH AND INSTALL MINI POWER CENTER WITH 480VAC TO 240/120VAC TRANSFORMER (IF REQUIRED)	PER EACH
8010	SPARE PARTS/ASSEMBLIES INSTALLED WITHIN THE FIELD CABINET	PER EACH
8011	SPARE RELAYS AND LOAD SWITCHES	PER EACH
8012	MISCELLANEOUS REPAIRS AND/OR CONSTRUCTION	ALLOWANCES
8013	TELEPHONE AND ELECTRICAL SERVICES	ALLOWANCES
8014	CONCRETE FOR SIGN FOUNDATION	CUBIC YARDS

SCHEDULE OF PRICES

NOTE: This proposal shall be filled in by the bidder, with the prices written in words and numerals. The extension amounts of unit costs shall also be filled in. For complete information concerning these items, see Specifications, Special Provisions and Contract Form.

ITEM NOS.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEM AND PRICE BID (IN WRITTEN WORDS)	UNIT PRICE		AMOUNTS	
			DOLLARS	CTS.	DOLLARS	CTS.
8013	ALLOWANCES	ALLOWANCES OF TELEPHONE AND ELECTRICAL SERVICES AT Five Thousand Dollars	X	X	\$5,000	00
8014	183	CUBIC YARD OF CONCRETE FOR SIGN FOUNDATION PER CUBIC YARD				

CONTRACT NO. BB-972-000-006

August 12, 2010 Addendum No. 2

SCHEDULE OF PRICES

NOTE: This proposal shall be filled in by the bidder, with the prices written in words and numerals. The extension amounts of unit costs shall also be filled in. For complete information concerning these items, see Specifications, Special Provisions and Contract Form.

ITEM NOS.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEM AND PRICE BID (IN WRITTEN WORDS)	UNIT PRICE		AMOUNTS	
			DOLLARS	CTS.	DOLLARS	CTS.
X	X	AGGREGATE AMOUNT AT UNIT PRICES USING ITEMS 1001-1009, 6001-6005, 8001-8014.	X	X		

CONTRACT NO. BB-972-000-006 August 12, 2010 Addendum No. 2

Maryland Transportation Authority



U.S. ROUTE 50 / 301

ROUTE 50 DYNAMIC MESSAGE SIGNS REPLACEMENT

QUEEN ANNE'S COUNTY, MARYLAND

STRUCTURE NO. : 8870,8201

CONTRACT NO.: BB-972-000-006

AASHTO DESIGN CRITERIA

THIS PROJECT WAS DESIGNED IN ACCORDANCE WITH THE 2004 EDITION OF AASHTO'S "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS."

EROSION AND SEDIMENT CONTROL REGULATIONS WILL BE STRICTLY ENFORCED DURING CONSTRUCTION.

STANDARDS AND SPECIFICATIONS

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MARYLAND STATE HIGHWAY ADMINISTRATIONS "STANDARDS FOR HIGHWAY AND INCIDENTAL CONSTRUCTION". THE MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATIONS "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS JULY 2008" AND ALL REVISIONS THEREOF, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND AS SPECIFIED IN THE CONTRACT DOCUMENTS.

COMPLETENESS OF DOCUMENTS

THE MARYLAND TRANSPORTATION AUTHORITY SHALL ONLY BE RESPONSIBLE FOR THE COMPLETENESS OF DOCUMENTS OBTAINED DIRECTLY FROM THE MARYLAND TRANSPORTATION AUTHORITY'S CASHIERS OFFICE. FAILURE TO ATTACH ADDENDA MAY CAUSE THE BID TO BE IRREGULAR.

RIGHT OF WAY

RIGHT OF WAY AND EASEMENT LINES SHOWN ON THESE PLANS ARE FOR ASSISTANCE IN INTERPRETING THE PLANS. THEY ARE NOT OFFICIAL. FOR OFFICIAL FEE RIGHT OF WAY AND EASEMENT INFORMATION, SEE APPROPRIATE RIGHT OF WAY PLATS.

UTILITIES

THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE OF THE ACCURACY OF SAID LOCATIONS. NOTIFICATION TO "MSS UTILITY" 1800.257.7777, SHALL BE GIVEN 72 HOURS (THREE FULL WORKING DAYS) IN ADVANCE OF WORKING IN THE AREA OF THE SPECIFIC AFFECTED UTILITY. THE NOTIFICATION TO "MSS UTILITY" IS REQUIRED WHENEVER ANY EXCAVATING OR SIMILAR WORK IS TO BE PERFORMED.

NOTIFICATION TO BOBBY WOLCK, THE MTA UTILITIES MANAGER, SHALL BE GIVEN 72 HOURS (THREE FULL WORKING DAYS) IN ADVANCE OF WORKING IN THE AREA OF MTA UTILITIES.

ENVIRONMENTAL INFORMATION *MDE # 10-SF-0332*

ALL STORMWATER MANAGEMENT FACILITIES CONSTRUCTED FOR CONTRACT NO. BB-972-000-006 SHALL BE INSPECTED BIENNUELY WITH MAINTENANCE PROVIDED WHEN REQUIRED.

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES (GREATER THAN 1 HORIZONTAL TO 1 VERTICAL (S) AND FOURTEEN (14) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

THE GRADING LIMITS SHOWN ON THE PLAN SHALL NOT BE EXCEEDED. ANY CHANGES IN THE SEDIMENT CONTROL PLAN, STORMWATER MANAGEMENT FACILITY OR OTHER SEGMENT OF WORK MUST BE REVIEWED AND APPROVED BY THE OFFICE OF ENVIRONMENTAL DESIGN AND/OR THE OFFICE OF THE CHIEF ENGINEER.

ADA COMPLIANCE

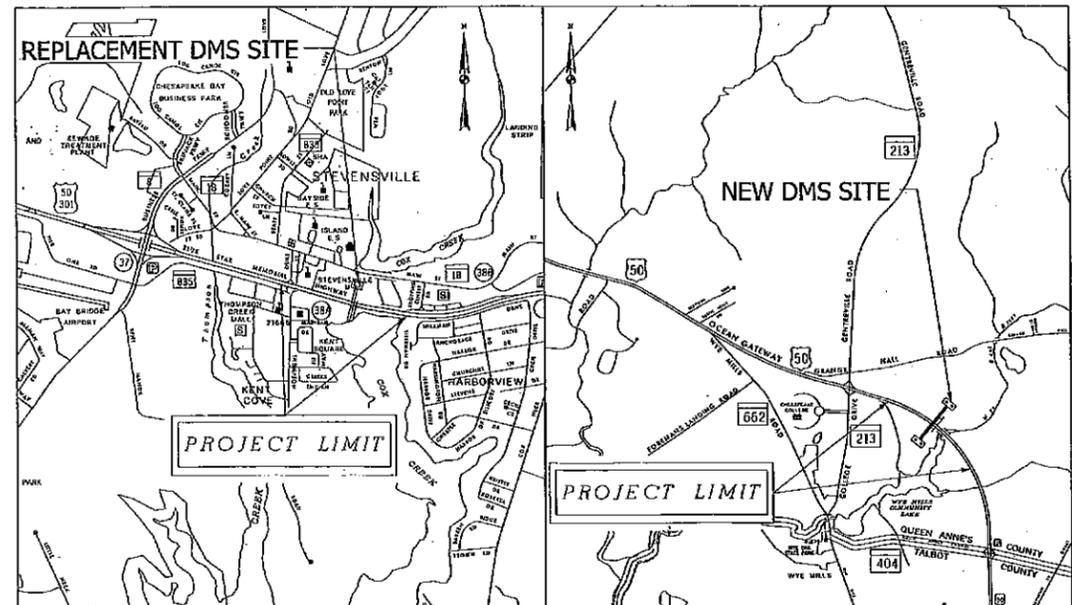
THE DESIGN OF THIS PROJECT HAS INCORPORATED FACILITIES IN COMPLIANCE WITH THE STATE AND FEDERAL LEGISLATION.

OWNERS / DEVELOPERS CERTIFICATION :

I / WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT, COMPLIANCE INSPECTORS.

5/19/2010
DATE
[Signature]
OWNER/DEVELOPER SIGNATURE

166
CARD NO.
William Anderson, Esq., M.D.
PRINTED NAME AND TITLE



HORIZONTAL DATUM: NAD 83 / 91
VERTICAL DATUM: NAVD 88
LOCATION MAP
NOT TO SCALE
MILEAGE: 0.5 MILES
DESIGN SPEED: 60 MPH

ADDENDUM 2 - August 12, 2010
BB-972-000-006

T3 design
T3 DESIGN, P.C.
3327 OLD LEE HWY
SUITE 101-C
FAIRFAX, VA 22030
PHONE: 703-399-5861
WWW.T3DESIGN.US

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. *37187*, EXPIRATION DATE: *6-11-11*.

SABRA, YANG & ASSOCIATES, INC.
1904 JOH AVENUE
SUITE 100
BALTIMORE, MD 21227
(410) 787-8884
WWW.SABRA-YANG.COM

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. *14714*, EXPIRATION DATE: *12-11-11*.

ADVERTISEMENT
DATE

ADDENDA	MARYLAND TRANSPORTATION AUTHORITY	
	RECOMMENDED FOR APPROVAL	
	<i>[Signature]</i>	<i>6/2/10</i>
	DIRECTOR OF ENGINEERING	DATE
	APPROVED	
	<i>[Signature]</i>	<i>6/7/10</i>
	CHIEF ENGINEER, OFFICE OF ENGINEERING AND CONSTRUCTION	DATE
	APPROVED	
	<i>[Signature]</i>	<i>6/8/10</i>
	EXECUTIVE SECRETARY	DATE

INDEX OF SHEETS

SHEET	TOTAL	DWG	DESCRIPTION
1	OF 25	TITLE	TITLE SHEET
2	OF 25	INDX	INDEX OF SHEETS
3	OF 25	GEN-1	GENERAL NOTES AND LEGEND
4	OF 25	DEM-1	DMS (1) DEMOLITION DETAILS
5	OF 25	DMS-1	DMS (1) INSTALLATION DETAILS
6	OF 25	DMS-2	DMS (2) INSTALLATION DETAILS
7	OF 25	S-1	REPLACEMENT DMS (1) STRUCTURE - CROSS SECTION
8	OF 25	S-2	DMS (2) STRUCTURE - CROSS SECTION
9	OF 25	SN-8.1	OVERHEAD DMS STRUCTURE AND GENERAL NOTES
10	OF 25	SN-8.2	OVERHEAD DMS STRUCTURE - ELEVATION
11	OF 25	SN-8.3	OVERHEAD DMS STRUCTURE DETAIL - 1
12	OF 25	SN-8.4	OVERHEAD DMS STRUCTURE DETAIL - 2
13	OF 25	SN-8.5	OVERHEAD DMS STRUCTURE FOUNDATION
14	OF 25	SN-8.6	TYPICAL DMS CONDUIT ROUTING DETAIL
15	OF 25	CAB-1	TYPICAL BASE MOUNTED CABINET DETAILS
16	OF 25	CAB-2	DMS CABINET LINE DIAGRAM
17	OF 25	TC-1	MAINTENANCE OF TRAFFIC: GENERAL NOTES AND SEQUENCE OF CONSTRUCTION
18	OF 25	TC-2	DMS (1) - MOT PLAN (PHASE 1)
19	OF 25	TC-3	DMS (1) - MOT PLAN (PHASE 2)
20	OF 25	TC-4	DMS (2) - MOT PLAN (PHASE 3)
21	OF 25	TC-5	DMS (2) - MOT PLAN (PHASE 4)
22	OF 25	ESC-1	EROSION AND SEDIMENT CONTROL NOTES (SHEET 1 OF 2)
23	OF 25	ESC-2	EROSION AND SEDIMENT CONTROL NOTES (SHEET 2 OF 2)
24	OF 25	ESC-3	EROSION AND SEDIMENT CONTROL DETAILS (SHEET 1 OF 1)
△ 25	OF 25	TAB-1	QUANTITY TABULATION



T3 DESIGN, P.C.
3927 OLD LEE HWY
SUITE 101-C
FAIRFAX, VA 22030
PHONE: 703-359-5861
www.t3design.us



Maryland Transportation Authority
ENGINEERING DIVISION

ADDENDUMS & REVISIONS			
NO.	DESCRIPTION	BY	DATE
△	ADD BID ITEM	PAT	8/12/2010

ROUTE 50 DYNAMIC MESSAGE SIGNS REPLACEMENT			CONTRACT NO. 188-972-000-006
INDEX OF SHEETS			DRAWING NO. INDX
DESIGNED BY S.J.W.	DRAWN BY J.R.L.	CHECKED BY A.J.M.	SHEET NO. 2 OF 25
CONST. REVIEW BY	DATE MAY, 2010	SCALE NOT TO SCALE	

ITEM NUMBER	1006	1007	1008	6001	6002	6003	6004	6005	8001	8002	8003	8004	8005	8006	8007	8008	8009	8010	8014	
ITEM TITLE	DRUMS (SECTION 104.12)	PROTECTION VEHICLE (SECTION 104.23)	ARROW PANEL (AP) (SECTION 104.07)	REMOVE TRAFFIC BARRIER END TREATMENT	REMOVE EXISTING TRAFFIC BARRIER W-BEAM	FURNISH AND INSTALL TYPE I TRAFFIC BARRIER END TREATMENT	FURNISH AND INSTALL TYPE C TRAFFIC BARRIER END TREATMENT	FURNISH AND INSTALL TRAFFIC BARRIER W-BEAM	REMOVE EXISTING DYNAMIC MESSAGE SIGN	INSTALL TYPE I DMS WITH INTEGRATED CONTROLLERS AND FURNISH AND INSTALL CATALKAS	REMOVE EXISTING OVERHEAD STRUCTURE 870	INSTALL NEW OVERHEAD STRUCTURE S-1 (8970)	INSTALL NEW OVERHEAD STRUCTURE S-2 (8201)	FURNISH AND INSTALL BASE MOUNTED CABINET	REFURBISH EXISTING FIELD EQUIPMENT CABINET	FURNISH AND INSTALL NEW CRS CONDUIT	FURNISH AND INSTALL MINI POWER CENTER WITH 480VAC TO 240/120VAC TRANSFORMER (IF REQUIRED)	OTHER ASSEMBLIES INSTALLED WITHIN THE FIELD CABINET	CONCRETE SIGN FOUNDATION	
UNIT	EACH	DAY	DAY	EACH	LF	EACH	EACH	LF	EACH	EACH	EACH	EACH	EACH	EACH	LF	EACH	EACH	Cu. YD.		
DMS(1)-COX CREEK	96	17	7	1	50	1	-	100	1	1	1	1	-	-	1	300	-	1	120.5	
DMS(2)-MD 213	96	17	7	2	-	-	2	225	-	1	-	-	1	1	-	200	1	-	62.5	
TOTALS	192	34	14	3	50	1	2	325	1	2	1	1	1	1	500	1	1	183.0		

ROUTE 50 DMS REPLACEMENT/DESIGN QUANTITY TABULATION



T3 DESIGN, P.C.
3927 OLD LEE HWY
SUITE 104-C
FAIRFAX, VA 22030
PHONE: 703-359-5861
www.t3design.us



Maryland Transportation Authority
ENGINEERING DIVISION

ADDENDUMS & REVISIONS			
NO.	DESCRIPTION	BY	DATE
Δ	ADD BID ITEM	PAT	8/12/2010

ROUTE 50 DYNAMIC MESSAGE SIGNS REPLACEMENT			CONTRACT NO. 188-972-000-006
QUANTITY TABULATION			DRAWING NO. TAB-1
DESIGNED BY S.JW	DRAWN BY JRL	CHECKED BY A.JM	SHEET NO. 25 OF 25
CONST. REVIEW BY	DATE MAY 2010	SCALE NOT TO SCALE	