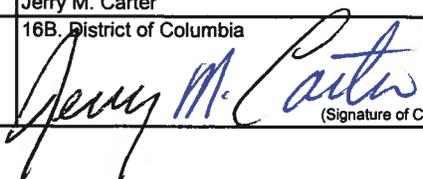


AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. Contract Number	Page of Pages 1 of 10	
2. Amendment/Modification Number Amendment No. 3		3. Effective Date See Block 16c	4. Requisition/Purchase Request No.	5. Solicitation Caption: Harvard Triangle Intersections Adams Mills Road-Kenyon/Irving to Harvard	
6. Issued By: Department of Transportation Office of Contracting and Procurement 55 M Street SE 7th Floor Washington, D.C. 20003			7. Administered By (If other than line 6) Office of Contracting and Procurement Procurement Support Branch - Bid Room 2000 14th Street, N.W. 3rd Floor Bid Room Washington, D.C. 20009		
8. Name and Address of Contractor (No. Street, city, country, state and ZIP Code)			(X)	9A. Amendment of Solicitation No. DCKA-2011-B-0178	
				9B. Dated (See Item 11) 3/8/2012	
				10A. Modification of Contract/Order No.	
				10B. Dated (See Item 13)	
Code	Facility		11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS		
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or fax which includes a reference to the solicitation and amendment number. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or fax, provided each letter or telegram makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. Accounting and Appropriation Data (If Required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14					
A. This change order is issued pursuant to: (Specify Authority) The changes set forth in Item 14 are made in the contract/order no. in item 10A.					
B. The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation date, etc.) set forth in item 14, pursuant to the authority of 27 DCMR, Chapter 36, Section 3601.2.					
C. This supplemental agreement is entered into pursuant to authority of:					
D. Other (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.					
14. Description of amendment/modification (Organized by UCF Section headings, including solicitation/contract subject matter where feasible.)					
This amendment is issued to:					
1. Extend the bid opening date: The bid opening date is extended until April 17, 2012 @ 2:00PM					
<i>Bid Forms and Proposal</i>					
2. Delete Pay Item Schedule pages 14-16, 17R and 18- REPLACE with pages 12R,14R-16R, 17RR and 18R (6 pages attached)					
<i>Construction Plans</i>					
3. Summary of Quantities- Delete Sheet 4 and Replace with Sheet 4R- (1 page attached) Traffic Signal Drawings - Delete Sheet TS-5 and Replace with TS-5R (1 page attached) Delete Sheet TS012 and Replace with TS12-R (1 page attached)					
No additional questions will be accepted per issuance of this amendment					
Except as provided herein, all terms and conditions of the document referenced in Item (9A or 10A) remain unchanged and in full force and effect					
15A. Name and Title of Signer (Type or print)			16A. Name of Contracting Officer Jerry M. Carter		
15B. Name of Contractor		15C. Date Signed	16B. District of Columbia		16C. Date Signed
(Signature of person authorized to sign)					4/9/12
			(Signature of Contracting Officer)		

SUMMARY OF QUANTITIES

NO.	DATE	PROJECT	SHEET NO.	TOTAL SHEETS
8	D.C.	BTP - 3401 0000	4R	78

ITEM NO.	DESCRIPTION	UNIT	TOTALS
000 003	EMPLOYEE TRAINING	HRS.	2880
108 002	PROGRESS PHOTOGRAPHS	LS	1
108 004	AS BUILT DRAWINGS	LS	1
202 002	COMMON EXCAVATION	C.Y.	1100
202 004	HARD SURFACE PAVEMENT EXCAVATION	C.Y.	1550
204 002	EMBANKMENT FILL	C.Y.	1500
204 004	BORROW EMBANKMENT FILL	C.Y.	1100
207 002	TRENCH EXCAVATION AND BACKFILL	C.Y.	900
207 004	TRENCH UNDERCUT EXCAVATION	C.Y.	120
207 008	GRAVEL FOR TRENCHCUT	C.Y.	80
207 991	TRENCH EXCAVATION AND BACK FILL SPECIAL ITEM - CY - (STRUCTURAL SOIL BACKFILL FOR RETAINING WALL)	C.Y.	60
209 002	AGGREGATE BASE COURSE	C.Y.	1300
212 002	TEST PIT	EACH	40
300 005	WATER AND SEWER SPECIAL ITEM (#300015 CONNECTION PIPE CLEANING)	LF	410
309 002	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIA.	VF	110
310 012	BASEIN CONNECT PCC PIPE, CLASS IV, 18 INCH	LF	381
310 992	CATCH BASIN SPECIAL ITEM ITEM #310993 WATER QUALITY SINGLE BASIN	EACH	5
310 992	CATCH BASIN SPECIAL ITEM ITEM #310994 WATER QUALITY DOUBLE BASIN	EACH	8
310 992	DOUBLE GRATE TYPE CATCH BASIN WITH SAFETY GRATE	EACH	1
311 004	RESET SEWER-WATER-UTILITY MANHOLE FRAME	EACH	22
311 028	REPLACE EXISTING BASIN WITH DOUBLE BASIN	EACH	2
311 028	REPLACE EXISTING BASIN WITH TRIPLE BASIN	EACH	4
313 002	ABANDON BASIN CONNECTING PIPE	EACH	11
313 006	ABANDON BASIN	EACH	14
314 048	PCC PIPE, CLASS IV, GASKET, 18 INCH	LF	260
402 002	SUPERPAVE BASE COURSE, 18.5MM	TON	2000
402 012	SUPERPAVE SURFACE COURSE, 12.5MM	TON	580
403 002	TACK COAT	SY	4800
407 002	TEMPORARY AC SUPERPAVE SURFACE COURSE, 12.5MM	TON	80
505 024	REPLACE DRIVEWAY-ALLEY ENTRANCE, 7 INCH	SY	160
801 002	PCC BUS STOP PAD	C.Y.	81
801 008	PCC DIRECTIONAL ISLAND	C.Y.	27
805 002	W BEAM GUIDERAIL	LF	720
805 018	GUIDERAIL, END TERMINAL	EACH	1
805 018	GUIDERAIL, APPROACH TERMINAL	EACH	1
806 002	PAVEMENT PROFILING (MILLING)	S.Y.	2300
807 004	CHAIN LINK FENCE 6FT HEIGHT	LF	350
808 004	PCC SIDEWALK 4 INCH	S.Y.	2100
808 014	PCC DRIVEWAY 7 INCH	S.Y.	180
808 016	REPAIR REPLACE PCC SIDEWALK 4 INCH	S.Y.	60
809 008	PCC CURB & GUTTER 13 TO 15 INCH DEPTH	LF	2300
809 012	PCC CIRCULAR CURB & GUTTER 13 TO 15 INCH DEPTH	LF	900
809 018	PCC CURB 13 TO 15 INCH DEPTH	LF	130
809 038	PCC GUTTER 7 TO 10 INCH DEPTH X 12-24 INCH WIDTH	SY	18

ITEM NO.	DESCRIPTION	UNIT	TOTALS
809 068	FURNISH & SET 6"x12" GRANITE STRAIGHT CURB	LF	225
809 072	FURNISH & SET 6"x12" GRANITE CIRCULAR CURB, RADIUS 10-100FT	LF	15
809 200	PCC WHEELCHAIR/BICYCLE RAMP-NEW CONSTRUCTION	EACH	12
811 008	REMOVE TREE AND STUMP 12 TO 18 INCH DIA.	EACH	8
811 008	REMOVE TREE AND STUMP 18 TO 24 INCH DIA.	EACH	2
811 010	REMOVE TREE AND STUMP 24 TO 30 INCH DIA.	EACH	2
811 100	BICYCLE LOCKERS - RELOCATION OF EXISTING BIKE RACK	EACH	1
811 998	TREE SHRUB, VINE & GROUND COVER SPECIAL ITEM ITEM # 811998 METASEQUOIA GLYPTOSTROBODES (DAWN REDWOOD) 8"-10" B. & B.	EACH	1
811 999	TREE SHRUB, VINE & GROUND COVER SPECIAL ITEM ITEM # 811999 NYSSA SYLVATICA (BLACK GLIM) 4" DBH B. & B.	EACH	3
811 999	TREE SHRUB, VINE & GROUND COVER SPECIAL ITEM ITEM # 811999 QUERCUS LYRATA (OVER CUP OAK) 4" DBH B. & B.	EACH	2
811 999	TREE SHRUB, VINE & GROUND COVER SPECIAL ITEM ITEM # 811999 QUERCUS SHUMARDII (SHUMARD OAK) 4" DBH B. & B.	EACH	1
811 999	TREE SHRUB, VINE & GROUND COVER SPECIAL ITEM ITEM # 811999 ULMUS AMERICANA (AMERICAN ELM) 4" DBH B. & B.	EACH	1
812 002	MOBILIZATION	L.S.	0.80
814 012	PORTABLE PCC TRAFFIC BARRIER	LF	790
814 992	PCC TRAFFIC BARRIERS SPECIAL ITEM REMOVE EXISTING BARRIER (#814993)	LF	250
818 004	CONSTRUCTION LANE CLOSING	LS	0.80
818 008	REMOVE LANE MARKINGS	SF	780
818 008	TEMPORARY CONSTRUCTION SIGN SUPPORTS	EACH	38
818 012	CONSTRUCTION WARNING AND DETOUR SIGNS	SF	340
818 020	SEGMENTAL ARROW BOARDS	EACH	2
818 024	TYPE II PVC BARRICADE	EACH	8
818 028	TRAFFIC ORLUMS	EACH	200
818 040	THERMOPLASTIC PAVEMENT MARKING, 4 INCH	LF	4100
818 042	THERMOPLASTIC PAVEMENT MARKING, 4 INCH DASH	LF	70
818 044	THERMOPLASTIC PAVEMENT MARKING, 6 INCH	LF	1800
818 048	THERMOPLASTIC PAVEMENT MARKING, 6 INCH DASH	LF	420
818 050	THERMOPLASTIC PAVEMENT MARKING, 12 INCH	LF	310
818 052	THERMOPLASTIC PAVEMENT LETTER	EACH	20
818 054	THERMOPLASTIC PAVEMENT ARROW	EACH	24
818 090	CONSTRUCTION ZONE ATTENUATOR	EACH	2
818 100	SAND FILLED IMPACT ATTENUATOR MODULE	EACH	3
818 110	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2
818 122	STEEL PROTECTION PLATE	EACH	8
818 992	TRAFFIC CONTROL SPECIAL ITEM ITEM # 818992 THERMOPLASTIC PAVEMENT BIKE LANE SIGN	EACH	22
818 992	TRAFFIC CONTROL SPECIAL ITEM ITEM # 818991 CRASH CUSHION SYSTEM	EACH	2
818 994	TRAFFIC CONTROL SPECIAL ITEM ITEM # 818994 THERMOPLASTIC PAVEMENT MARKING, 24 INCH	LF	890
818 992	TRAFFIC CONTROL SPECIAL ITEM ITEM # 817118 FURNISH & INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) CONTROL LIGHT	EACH	12
818 992	TRAFFIC CONTROL SPECIAL ITEM ITEM # 817121 FURNISH & INSTALL VIDEO TRAFFIC FLOW DETECTION SYSTEM	EACH	1

ITEM NO.	DESCRIPTION	UNIT	TOTALS
817 002	FURNISH AND INSTALL INDUCTIVE LOOP DETECTOR	LF	230
817 006	REMOVE ABANDONED TRAFFIC SIGNAL OR STREET LIGHT POLE FOUNDATION	EACH	10
817 008	FURNISH AND INSTALL PCC FOUNDATION FOR TRAFFIC SIGNAL POLE OR PENDANT POST STREET LIGHT POLE	EACH	8
817 014	FURNISH AND INSTALL ONE 2 INCH PVC ENCASED ELECTRICAL CONDUIT	LF	30
817 018	FURNISH AND INSTALL ONE 4 INCH PVC ENCASED ELECTRICAL CONDUIT	LF	50
817 024	FURNISH AND INSTALL GALVANIZED STEEL TRANSFORMER BASE	EACH	8
817 026	FURNISH AND INSTALL HAND BOX	EACH	1
817 030	FURNISH AND INSTALL ONE 2 INCH AND TWO 4 INCH PVC ENCASED ELECTRICAL CONDUITS	LF	20
817 032	FURNISH AND INSTALL ONE 2 INCH AND TWO 4 INCH PVC ENCASED ELECTRICAL CONDUITS	LF	335
817 038	FURNISH AND INSTALL PCC FOUNDATION FOR CONTROLLER CABINET	EACH	2
817 040	FURNISH TEMPORARY, PORTABLE, CONCRETE BASE FOR MODEL 338-S AND MODEL 338-SS TRAFFIC SIGNAL CONTROLLER CABINET	EACH	2
817 042	FURNISH TEMPORARY, PORTABLE, CONCRETE BASE FOR 20 FOOT STEEL TRAFFIC SIGNAL POLE MOUNTED ON A TRANSFORMER BASE	EACH	14
817 046	FURNISH AND INSTALL 20 FOOT TALL STEEL TRAFFIC SIGNAL POLE	EACH	8
817 048	FURNISH AND INSTALL 8 FOOT LONG MAST ARM WITH CLAMP AND REMOVABLE END CAP	EACH	1
817 050	FURNISH AND INSTALL 7 CONDUCTOR 14 AWG STRANDED ELECTRICAL TRAFFIC SIGNAL CABLE	LF	4800
817 052	FURNISH AND INSTALL 4 CONDUCTOR 18 AWG SHIELDED, STRANDED ELECTRICAL TRAFFIC SIGNAL CABLE	LF	550
817 058	FURNISH AND INSTALL 25 PAIR 19 AWG UNDERGROUND COMMUNICATIONS CABLE	LF	4000
817 088	FURNISH RED BALL LED MODULE	EACH	20
817 070	FURNISH YELLOW BALL LED MODULE	EACH	20
817 072	FURNISH GREEN BALL LED MODULE	EACH	20
817 074	FURNISH RED ARROW LED MODULE	EACH	2
817 076	FURNISH YELLOW ARROW LED MODULE	EACH	2
817 078	FURNISH GREEN ARROW LED MODULE	EACH	2
817 084	FURNISH 12 INCH OVERLAY LUMINAR WHITE WALKING PERSON AND PORTLAND ORANGE RAISED HAND LED MODULE	EACH	12
817 088	FURNISH 12 INCH PORTLAND ORANGE COUNTDOWN LED MODULE	EACH	12
817 090	FURNISH AND INSTALL 3 SECTION CONVENTIONAL TRAFFIC SIGNAL HEAD ON A POLE (ALL LENSES 12")	EACH	22
817 098	FURNISH AND INSTALL 3 SECTION CONVENTIONAL TRAFFIC SIGNAL HEAD ON A MAST ARM (ALL LENSES 12")	EACH	1
817 114	FURNISH AND INSTALL 2 SECTION CONVENTIONAL PEDESTRIAN SIGNAL HEAD ON A POLE (12")	EACH	12
817 120	FURNISH AND INSTALL MICROWAVE VEHICLE DETECTOR	EACH	2
817 124	FURNISH AND INSTALL TRAFFIC SIGNAL CONTROLLER & CABINET	EACH	2

DHA #1893-325 C-04R

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**HARVARD TRIANGLE
INTERSECTIONS IMPROVEMENT**

QUANTITY TABULATIONS

PROJECT NO. _____	DRAWN BY _____
CHECKED BY _____	PROJECT MGR. _____
DIVISION CHIEF _____	
DATE _____	FILE _____
SHEET 48 OF 78	

DHA
 DELON HAMPTON & ASSOCIATES, Chartered
 8405 COLEVILLE ROAD, SUITE 600
 SILVER SPRING, MD. 20910-5331
 PH:(301) 585-0100; FAX:(301) 585-6488

NO.	DESCRIPTION	NAME	DATE

REVISIONS

DESCRIPTION	REVISION						
	DATE	CDR.	CHK.	APP.	APP.	APP.	APP.
④ ITEM NO. 617052 - QUANTITY REVISED ITEM NO. 617118 - REMOVED	4-9-17	JLP	RA				

NO.	REV.	PROJECT	SHEET NO.	TOTAL SHEETS
3	DC	STP-2401(003)	09 R	78

TRAFFIC SIGNAL - SUMMARY OF QUANTITIES					
PAY ITEM NO.	PAY ITEM	UNIT	ADAMS MILL ROAD, HARVARD STREET AND ZOO ENTRANCE	ADAMS MILL ROAD, IRVING STREET AND KENYON STREET	TOTAL QUANTITY
617002	FURNISH AND INSTALL INDUCTIVE LOOP DETECTOR	LF	230	0	230
617006	REMOVE ABANDONED TRAFFIC SIGNAL OR STREET LIGHT POLE FOUNDATION	EACH	5	5	10
617008	FURNISH AND INSTALL PCC FOUNDATION FOR TRAFFIC SIGNAL POLE OR PENDANT POST STREET LIGHT POLE	EACH	5	3	8
617014	FURNISH AND INSTALL ONE 2 INCH PVC ENCASED ELECTRICAL CONDUIT	LF	10	20	30
617016	FURNISH AND INSTALL ONE 4 INCH PVC ENCASED ELECTRICAL CONDUIT	LF	50	0	50
617024	FURNISH AND INSTALL GALVANIZED STEEL TRANSFORMER BASE	EACH	5	3	8
617028	FURNISH AND INSTALL HAND BOX	EACH	1	0	1
617030	FURNISH AND INSTALL ONE 3 INCH AND TWO 4 INCH PVC ENCASED ELECTRICAL CONDUITS	LF	10	10	20
617032	FURNISH AND INSTALL ONE 2 INCH AND ONE 4 INCH PVC ENCASED ELECTRICAL CONDUITS	LF	75	65	140
617038	FURNISH AND INSTALL PCC FOUNDATION FOR CONTROLLER CABINET	EACH	1	1	2
617040	FURNISH TEMPORARY, PORTABLE, CONCRETE BASE FOR MODEL 336-S AND MODEL 336-SS TRAFFIC SIGNAL CONTROLLER CABINET	EACH	1	1	2
617042	FURNISH TEMPORARY, PORTABLE, CONCRETE BASE FOR 20 FOOT STEEL TRAFFIC SIGNAL POLE MOUNTED ON A TRANSFORMER BASE	EACH	7	7	14
617046	FURNISH AND INSTALL 20 FOOT TALL STEEL TRAFFIC SIGNAL POLE	EACH	5	3	8
617048	FURNISH AND INSTALL 8 FOOT LONG MAST ARM WITH CLAMP AND REMOVEABLE END CAP	EACH	0	1	1
617050	FURNISH AND INSTALL 7 CONDUCTOR 14 AWG STRANDED ELECTRICAL TRAFFIC SIGNAL CABLE	LF	2600	2300	4900
617051	FURNISH AND INSTALL 4 CONDUCTOR 18 AWG SHIELDED, STRANDED ELECTRICAL TRAFFIC SIGNAL CABLE	LF	550	0	550
617058	FURNISH AND INSTALL 25 PAIR 19 AWG UNDERGROUND COMMUNICATIONS CABLE	LF	NA	NA	4000
617068	FURNISH RED BALL LED MODULE	EACH	12	8	20
617070	FURNISH YELLOW BALL LED MODULE	EACH	12	8	20
617072	FURNISH GREEN BALL LED MODULE	EACH	12	8	20
617074	FURNISH RED ARROW LED MODULE	EACH	0	2	2
617076	FURNISH YELLOW ARROW LED MODULE	EACH	0	2	2
617078	FURNISH GREEN ARROW LED MODULE	EACH	0	2	2
617084	FURNISH 12 INCH OVERLAY LUNAR WHITE WALKING PERSON AND PORTLAND ORANGE RAISED HAND LED MODULE	EACH	8	4	12
617086	FURNISH 12 INCH PORTLAND ORANGE COUNTDOWN LED MODULE	EACH	8	4	12
617090	FURNISH AND INSTALL 3 SECTION CONVENTIONAL TRAFFIC SIGNAL HEAD ON A POLE (ALL LENSES 12")	EACH	12	10	22
617096	FURNISH AND INSTALL 3 SECTION CONVENTIONAL TRAFFIC SIGNAL HEAD ON A MAST ARM (ALL LENSES 12")	EACH	0	1	1
617114	FURNISH AND INSTALL 2 SECTION CONVENTIONAL PEDESTRIAN SIGNAL HEAD ON A POLE (12")	EACH	8	4	12
617119	FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) CONTROL UNIT	EACH	8	4	12
617120	FURNISH AND INSTALL MICROWAVE VEHICLE DETECTOR	EACH	2	0	2
617121	FURNISH AND INSTALL VIDEO TRAFFIC FLOW DETECTION SYSTEM	EACH	1	0	1
617124	FURNISH AND INSTALL TRAFFIC SIGNAL CONTROLLER AND CABINET	EACH	1	1	2
617126	REMOVE ABANDONED TRAFFIC SIGNAL CONTROLLER CABINET FOUNDATION	EACH	1	1	2
617130	REMOVE TRAFFIC SIGNAL POLE AND TRAFFIC SIGNAL EQUIPMENT	LS	1	1	1
617132	REMOVE TRAFFIC SIGNAL CONTROLLER AND CABINET	EACH	1	1	2
618160	FURNISH AND INSTALL 2-4" SCHEDULE 40 RIGID PVC CONDUIT (DUCT BANK)	LF	10	85	95
618997	FURNISH AND INSTALL CLOSED CIRCUIT TELEVISION (CCTV) CAMERA SYSTEM	EACH	1	0	1
618999	PAYMENT TO PEPCO FOR CONNECTION, DISCONNECTION AND INSPECTION	LS	1	1	1

④ ITEM 617118 1 FURNISH AND INSTALL PEDESTRIAN PUSH BUTTON - 4 EACH 1 REMOVED

TS - 12R

DAVID
VOLKERT
& ASSOC. ENG., P.C.
5028 WISCONSIN AVE., N.W., WASHINGTON, D.C. 20004

S.I.F. NO. _____
APPROVED BY _____ DATE _____

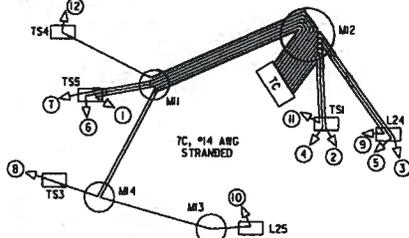
DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION TRANSPORTATION OPERATIONS ADMINISTRATION		QUANTITIES FIELD CHECKED BY RA/FGS
RECONSTRUCTION OF HARVARD TRIANGLE TRAFFIC SIGNAL MODIFICATION		DESIGNED BY RA
SUBMITTED BY PROJECT ENGINEER	DATE	DATE 08/11
RECOMMENDED BY GROUP MANAGER	DATE	SCALE 1"=20'
ITS SYSTEM SUPPORT MANAGER	DATE	SHEET 1 / 1
SAFETY, STANDARDS AND BEST PRACTICES MANAGER	DATE	DRAWING NO.
DEPUTY PROGRAM MANAGER	DATE	
APPROVED	DATE	

I:\185330 - core road - harvard triangle\ghn\harvard triangle\TS-12 Quantities.dgn
 Friday, April 05, 2014 11:10:51 AM

DESCRIPTION	REVISION					
	DATE	CDR.	CHK.	APP.	APP.	APP.
(A) PEDESTRIAN PUSH BUTTON REMOVED FROM POLES L23, L24, L25 AND TS4 REVISED INSTALLATION NOTES TO REMOVE PEDESTRIAN PUSH BUTTON NOTE REVISED CABLE SCHEMATIC AND ROUTING	1-1-12	JLP	RA			

NO.	DATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	87P-040(202)	02 R	78

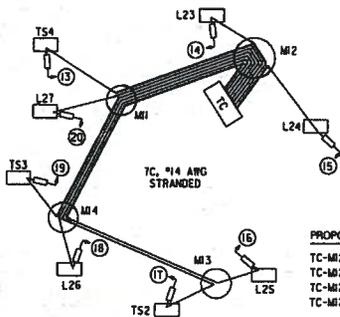
PROPOSED TRAFFIC SIGNAL HEAD CABLE SCHEMATIC



PROPOSED TRAFFIC SIGNAL HEAD CABLE ROUTING

TC-M2-M1-[55]-1	TC-M2-M1-[55]-7
TC-M2-[24]-2	TC-M2-M1-M4-[53]-8
TC-M2-[24]-3	TC-M2-[24]-9
TC-M2-[24]-4	TC-M2-M1-M4-M3-[25]-10
TC-M2-[24]-5	TC-M2-[24]-11
TC-M2-M1-[55]-6	TC-M2-M1-[54]-12

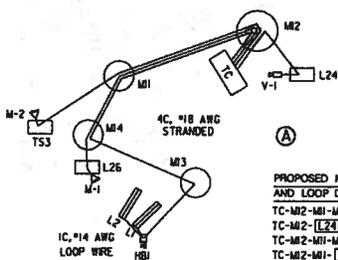
PROPOSED PEDESTRIAN SIGNAL HEAD CABLE SCHEMATIC



PROPOSED PEDESTRIAN SIGNAL HEAD CABLE ROUTING

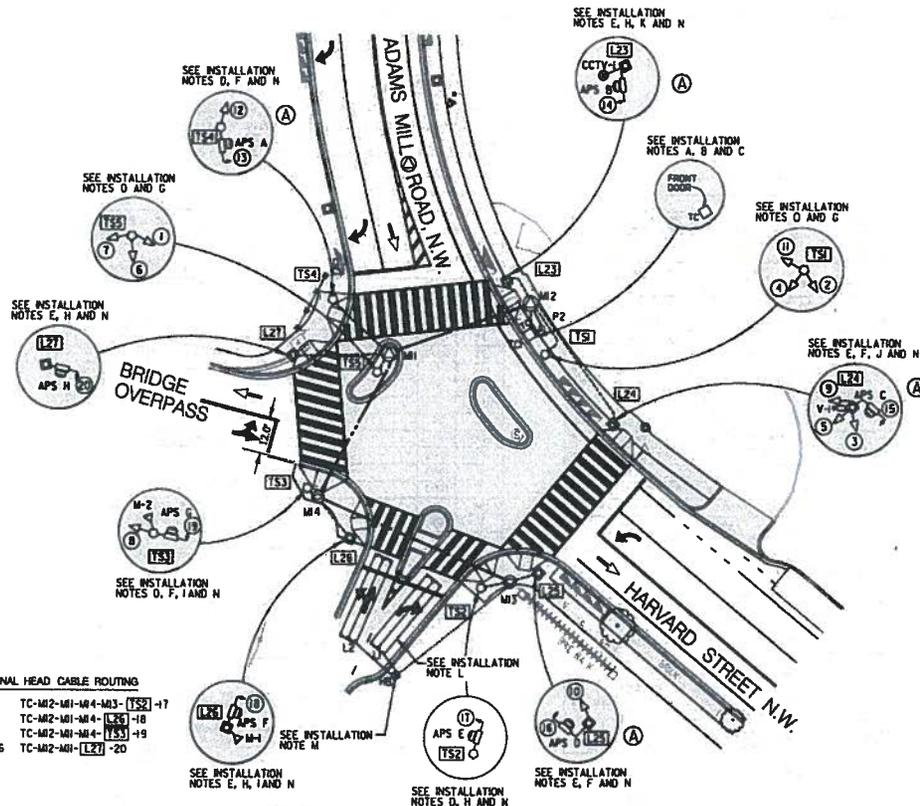
TC-M2-M1-[54]-13	TC-M2-M1-M4-M3-[25]-17
TC-M2-[24]-14	TC-M2-M1-M4-[26]-18
TC-M2-[24]-15	TC-M2-M1-M4-[25]-19
TC-M2-M1-M4-M3-[25]-16	TC-M2-M1-[27]-20

PROPOSED MICROWAVE DETECTOR, VIDEO DETECTOR AND LOOP DETECTOR SCHEMATIC



PROPOSED MICROWAVE DETECTOR, VIDEO DETECTOR AND LOOP DETECTOR CABLE ROUTING

TC-M2-M1-M4-M3-HBI
TC-M2-[24]-V-1 (VIDEO DETECTOR)
TC-M2-M1-M4-[26]-M-1 (MICROWAVE DETECTOR)
TC-M2-M1-[25]-M-2 (MICROWAVE DETECTOR)



- LEGEND:**
- TC □ PROPOSED TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET
 - PROPOSED PENDANT POLE WITH LUMINAIRE
 - PROPOSED 20 FOOT TRAFFIC SIGNAL POLE
 - PROPOSED 3 SECTION TRAFFIC SIGNAL HEAD (ALL LENSES 12")
 - PROPOSED 2 SECTION PEDESTRIAN SIGNAL HEAD (ALL LENSES 12")
 - PROPOSED MICROWAVE DETECTOR
 - PROPOSED VIDEO DETECTOR
 - PROPOSED WHEELCHAIR RAMP
 - PROPOSED SINGLE CATCH BASIN
 - PROPOSED 3'X3'X3" ELECTRICAL MANHOLE
 - PROPOSED 4'X4'X4" ELECTRICAL MANHOLE
 - EXISTING DRAINAGE MANHOLE
 - EXISTING SEWER MANHOLE
 - EXISTING ELECTRICAL MANHOLE
 - EXISTING WATER MANHOLE
 - EXISTING FIRE HYDRANT
 - PROPOSED HANDBOX
 - EXISTING TREE
 - EXISTING SIGN
 - PROPOSED CCTV CAMERA
 - PROPOSED INDUCTIVE LOOP DETECTOR 16' X 30'
 - RIGHT OF WAY LINE
 - PROPOSED 2" PVC CONDUIT
 - PROPOSED 2" & 4" PVC CONDUIT
 - PROPOSED 4-4" PVC CONDUIT

GENERAL NOTES:

- ALL WORK RELATING TO THE INSTALLATION OF THE TRAFFIC SIGNALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF THE DDOT 2009 STANDARD SPECIFICATIONS AND STANDARD DRAWINGS, 2007 SUPPLEMENTAL SPECIFICATION AND THE CONTRACT SPECIAL PROVISIONS.
- CONTRACTOR SHALL SUBMIT TO DDOT CATALOG CUTS FOR ALL MATERIALS TO BE FURNISHED AND INSTALLED. WRITTEN APPROVAL FROM DDOT SHALL BE SECURED PRIOR TO PROCUREMENT.
- CONTRACTOR SHALL FURNISH AND INSTALL TRAFFIC SIGNAL POLES, TRAFFIC AND PEDESTRIAN SIGNAL HEADS, TRANSFORMER BASES AND ALL MOUNTING HARDWARE.
- CONTRACTOR SHALL REMOVE ALL TEMPORARY, PORTABLE, CONCRETE BASES, TRAFFIC SIGNAL POLES AND SIGNAL HEADS.
- CONTRACTOR SHALL RETURN ALL REMOVED TRAFFIC SIGNAL EQUIPMENT TO THE DDOT SIGNAL SHOP, CONTACT TRAFFIC SIGNAL SHOP AT LEAST 72 HOURS IN ADVANCE AT 202-690-3654 TO ARRANGE SERVICE.
- A NEW PEPCO POWER IS REQUIRED. THE CONTRACTOR SHALL CONTACT PEPCO TO ARRANGE SERVICE AND PAY FEES.
- THE CONTRACTOR SHALL COORDINATE TRAFFIC SIGNAL WORK WITH STREETLIGHTING WORK.
- THE CONTRACTOR SHALL NOT REMOVE ANY EXISTING TRAFFIC SIGNAL EQUIPMENT UNTIL THE NEW TRAFFIC SIGNAL EQUIPMENT IS INSTALLED, OPERATIONAL AND ACCEPTED BY DDOT IPMA/TOA.
- NO ABOVE GROUND HARDWARE SHALL BE LOCATED SUCH THAT A CONTINUOUS 3' PATH FOR ADA PURPOSES IS NOT MAINTAINED.
- ALL NEW CONTROLLER CABINETS SHALL INCLUDE FULL UPS.

CABLE NOTES:

- DDOT TO MAKE ALL ELECTRICAL CONNECTIONS INSIDE CONTROLLER CABINET. CONTRACTOR TO MAKE ALL ELECTRICAL CONNECTIONS IN TRAFFIC AND PEDESTRIAN SIGNAL HEADS.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW TC, 14 AWG CABLE TO ALL TRAFFIC AND PEDESTRIAN SIGNAL HEADS (SEE CABLE SCHEMATICS).

ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM NOTES:

- CONTRACTOR SHALL SUBMIT TO DDOT CATALOG CUTS FOR THE ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM TO BE FURNISHED AND INSTALLED AS PER ADA REQUIREMENTS. WRITTEN APPROVAL FROM DDOT SHALL BE SECURED PRIOR TO APS SYSTEM PROCUREMENT.
- ALL ASSOCIATED HARDWARE AND CABLING FOR THE APS SHALL BE INCIDENTAL TO EACH APS SYSTEM. CONTRACTOR SHALL INSTALL APS PER THE SPECIFICATIONS PROVIDED BY THE VENDOR.

INSTALLATION NOTES:

- INSTALL PROPOSED TRAFFIC CONTROLLER FOUNDATION.
- INSTALL PROPOSED TRAFFIC CONTROLLER CABINET.
- INSTALL PROPOSED TRAFFIC CONTROLLER.
- INSTALL PROPOSED 20 FOOT TRAFFIC SIGNAL POLE.
- INSTALL PROPOSED PENDANT POLE WITH LUMINAIRE.
- INSTALL PROPOSED LED TRAFFIC AND PEDESTRIAN SIGNAL HEAD(S).
- INSTALL PROPOSED LED TRAFFIC SIGNAL HEAD(S).
- INSTALL PROPOSED LED PEDESTRIAN SIGNAL HEAD(S).
- INSTALL PROPOSED MICROWAVE DETECTOR.
- INSTALL PROPOSED VIDEO DETECTOR.
- INSTALL PROPOSED CCTV CAMERA.
- INSTALL PROPOSED LOOP DETECTOR 16' X 30'.
- INSTALL PROPOSED HANDBOX ADJACENT TO FACE OF CURB.
- INSTALL PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM.

DAVID VOLKERT & ASSOC. ENG. P.C.
 5028 WISCONSIN AVE., N.E., WASHINGTON, D.C. 20016

SCALE: 1" = 20'

S.L.P. NO. _____
 APPROVED BY _____ DATE _____

SEQUENCE OF OPERATIONS DRAWING NO. TS-1192-C

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION TRANSPORTATION OPERATIONS ADMINISTRATION		FWAL
ADAMS MILL ROAD, HARVARD STREET AND THE ENTRANCE TO THE NATIONAL ZOO, N.W. TRAFFIC SIGNAL MODIFICATION		REV. CHECKED BY
DESIGNED BY	DATE	08/11
RECOMMENDED BY	DATE	08/11
SCALE	DATE	1"=20'
SHEET 1 OF 2	DATE	12/18-0

11/20/08 - 08/11/12 - Harvard Street, Adams Mill Road, National Zoo, Traffic Signal Modification
 11/20/08 - 08/11/12 - JLP, RA, JLP, RA, JLP, RA

TS - 5R

SCHEDULE OF ITEMS

DATE:
REVISED:

CONTRACT ID: KA2011B0178

PROJECT(S): STP-2401 (003)

CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1070	617040 Furnish Temporary, Portable, Concrete Base For Model 336-S And Model 336-Ss Traffic Signal Controller Cabinet	2.000 EACH	.	.	.	.
1080	617042 Furnish Temporary, Portable, Concrete Base For 20 Foot Steel Traffic Signal Pole Mounted On A Transformer Base	14.000 EACH	.	.	.	.
1090	617046 Furnish And Install 20 Foot Tall Steel Traffic Signal Pole	8.000 EACH	.	.	.	.
1100	617048 Furnish And Install 8 Foot Long Mast Arm With Clamp And Removable End Cap	1.000 EACH	.	.	.	.
1110	617050 Furnish And Install 7 Conductor 14 Awg Stranded Electrical Traffic Signal Cable	4900.000 LF	.	.	.	.
1120	617052 Furnish And Install 4 Conductor 18 Awg Shielded, Stranded Electrical Traffic Signal Cable	550.000 LF	.	.	.	.
1130	617058 Furnish And Install 25 Pair 19 Awg Underground Communication s Cable	4000.000 LF	.	.	.	.
1140	617068 Furnish Red Ball Led Module	20.000 EACH	.	.	.	.

SCHEDULE OF ITEMS

DATE:
REVISED:

CONTRACT ID: KA2011B0178

PROJECT(S): STP-2401 (003)

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1240	617114 Furnish And Install 2 Section Conventional Pedestrian Signal Head On A Pole (12?)	12.000 EACH	.		.	
1250	617120 Furnish And Install Microwave Vehicle Detector	2.000 EACH	.		.	
1260	617124 Furnish And Install Traffic Signal Controller And Cabinet	2.000 EACH	.		.	
1270	617126 Remove Abandoned Traffic Signal Controller Cabinet Foundatio n	2.000 EACH	.		.	
1280	617130 REMOVE TRAFFIC SIGNAL POLE AND TRAFFIC SIGNAL EQUIPMENT	1.000 EACH	.		.	
1290	617132 Remove Traffic Signal Controller And Cabinet	2.000 EACH	.		.	
1300	618016 Furnish and Install 36" x 36" x 36" Manhole	4.000 EACH	.		.	
1310	618022 Furnish and Install 48" x 48" x 48" Manhole	10.000 EACH	.		.	
1320	618072 Furnish and Install 1-2" Schedule 40 Rigid PVC Conduit	455.000 LF	.		.	

SCHEDULE OF ITEMS

DATE:
REVISED:

CONTRACT ID: KA2011B0178

PROJECT(S): STP-2401 (003)

CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1330	618148 Furnish and Install 6-4" Schedule 40 Rigid PVC Conduits (duct bank)	355.000 LF	.		.	
1340	618150 Furnish and Install 6-4" and 1-2" Schedule 40 Rigid PVC Conduits (duct bank)	385.000 LF	.		.	
1350	618152 Furnish and Install 6-4" and 2-2" Schedule 40 Rigid PVC Conduits (duct bank)	140.000 LF	.		.	
1360	618154 Furnish and Install 4-4" Schedule 40 Rigid PVC Conduit (duct bank)	300.000 LF	.		.	
1370	618160 Furnish and Install 2-4" Schedule 40 Rigid PVC Conduit (duct bank)	170.000 LF	.		.	
1380	618190 Furnish and Install #10 Stranded Wire	5310.000 LF	.		.	
1390	618250 Furnish and Install #0000 Stranded Wire	3565.000 LF	.		.	
1400	618292 Furnish and Install #8 Stranded Ground Wire	2655.000 LF	.		.	
1410	618310 Furnish and Install #2 Stranded Ground Wire	1190.000 LF	.		.	

SCHEDULE OF ITEMS

DATE:
REVISED:

CONTRACT ID: KA2011B0178

PROJECT(S): STP-2401 (003)

CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1420	618394 Furnish and Install 15" B.C. Street Light Foundation	27.000 EACH	.		.	
1430	618400 Remove Street Light Pole Foundation	11.000 EACH	.		.	
1440	618436 Furnish and Install 15" B.C Steel Transformer Base	27.000 EACH	.		.	
1450	618542 Furnish and Install 28'-6" Steel Pendant Pole with up to 8' Arm	27.000 EACH	.		.	
1460	618566 Remove Pendant Pole 30 ft. Height or Less	11.000 EACH	.		.	
1470	618760 Furnish and Install 250 Watt HPS Tear Drop Fixture	27.000 EACH	.		.	
1480	618991 ELECTRICAL WORK SPECIAL ITEM -LS- TEMPORARY LIGHTING	LUMP		LUMP		.
1490	618992 ELECTRICAL WORK SPECIAL ITEM -EACH- ITEM # 618997 FURNISH AND INSTALL CLOSED CIRCUT TELEVISION (CCTV) CAMERA SYSTEM	1.000 EACH	.		.	
1500	618999 Payment to PEPCO for Connection, Disconnection, Inspection PEPCO CONNECTION FEES	LUMP		LUMP		20000.00

SCHEDULE OF ITEMS

DATE:
REVISED:

CONTRACT ID: KA2011B0178

PROJECT(S): STP-2401 (003)

CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1510	620014 Traffic Sign Panels	240.000 SF	.		.	
1520	620022 METAL SIGN POST	90.000 LF	.		.	
1530	620032 Remove Existing Ground Mounted Sign	80.000 SF	.		.	
1540	620040 Federal Aid Project Sign	2.000 EACH	.		.	
1550	624002 Engineer's Field Facilities	LUMP		LUMP		.
1560	625002 Field Layout	LUMP		LUMP		.
1570	628002 Erosion and Sediment Control	LUMP		LUMP		.
1580	700002 Structures Construction Special Item - CY - ITEM # 700012 CONCRETE JERSEY SHAPE MEDIUM TRAFFIC BARRIER TYPE D	900.000 CY	.		.	
1590	700004 Structures Construction Special Item - EACH - ITEM # 700013 RELOCATE BENCHES TO NEW BUS STOP	1.000 EACH	.		.	

SCHEDULE OF ITEMS

DATE:
REVISED:

CONTRACT ID: KA2011B0178

PROJECT(S): STP-2401 (003)

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1600	700005 Structures Construction Special	65.000				
	Item - LF - ITEM #	LF				
	700014 CONCRETE RETAINING WALL 6' -10' HIGH.					
	SECTION 0001 TOTAL					
	TOTAL BID					