



ORIGINAL

Price Proposal

SEPTEMBER 8, 2017



City of Chesapeake, VA
**I-64 SOUTHSIDE WIDENING
AND HIGH RISE BRIDGE**
PHASE 1

STATE PROJECT NO.
0064-131-811, P101, R201,
C501, B662-B670, D637, D638

FEDERAL PROJECT NO.
NHPP-064-3(488)

CONTRACT ID NO.
C00106692DB93

LMB Constructors

LMB Constructors

14500 Avion Parkway, Suite 200
Chantilly, VA 20151
(P): 703.222.5670

September 8, 2017

Mr. Jeffrey A. Roby, P.E., DBIA
Alternative Project Delivery Division
Virginia Department of Transportation
1401 East Broad Street
Annex Building, 8th Floor
Richmond, Virginia 23219

RE: **I-64 Southside Widening and High Rise Bridge, Phase 1**
City of Chesapeake, Virginia
State Project No.: 0064-131-811, P101, R201, C501, B662-B670, D637, D638
Federal Project No.: NHPP-064-3(488)
Contract ID Number: C00106692DB93

Mr. Roby:

LMB Constructors (LMB) is pleased to submit our Price Proposal for the above referenced Design-Build project with the Virginia Department of Transportation (VDOT). Our response contains all information requested in the RFP dated December 14, 2016 and Addenda 1, 2, 3, 4, 5, 6, 7 and 8.

The LMB Team appreciates the opportunity to propose on this critically important project. We look forward to partnering with VDOT to make the I-64 Southside Widening and High Rise Bridge, Phase 1 a landmark success for the citizens of Virginia.

Should you have any additional questions, I can be contacted by phone at (412) 445-0423 or e-mail at JPHavel@laneconstruct.com.

Respectfully submitted,



John P. Havel, Jr., PE
Authorized Representative
LMB Constructors

ATTACHMENT 4.0.1.2

**DESIGN-BUILD PRICE PROPOSAL
CHECKLIST**

**Project Name: I-64 Southside Widening and High Rise Bridge, Phase 1
Contract ID Number: C00106692DB93**

➤ **Contents of Price Proposal:**

- Cost Breakdown Summary in whole numbers and the Proposal Price, in both numbers and words (Attachment 4.8.1)**
 - Schedule of Items itemized in accordance with Part 1, Section 4.8.2, including material quantities and costs of each proposed work package**
 - Proposed Monthly Payment Schedule showing the anticipated schedule on which funds will be required and associated value of work in accordance with Part 1, Section 4.8.3**
 - Price Adjustment Information and Forms for Fuel and Asphalt, including identification of pay items and associated quantities eligible for adjustment (Part 3, Section 6.3, Attachments 6.3)**
 - Proposal Guaranty (C-24) required by Section 102.07 of Part 5, Division I Amendments to the Standard Specifications**
 - Sworn Statement Forms (C-104, C-105, Attachments 4.8.6(a) and 4.8.6(b))**
 - CD-ROM containing the entire Price Proposal in a single cohesive Adobe PDF file**
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ATTACHMENT 3.7**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION**

RFP NO. C00106692DB93
PROJECT NO.: 0064-131-811, P101, R201, C501, B662-B670, D637, D638

ACKNOWLEDGEMENT OF RFP, REVISION AND/OR ADDENDA

Acknowledgement shall be made of receipt of the Request for Proposals (RFP) and/or any and all revisions and/or addenda pertaining to the above designated project which are issued by the Department prior to the Letter of Submittal submission date shown herein. Failure to include this acknowledgement in the Letter of Submittal may result in the rejection of your proposal.

By signing this Attachment 3.6, the Offeror acknowledges receipt of the RFP and/or following revisions and/or addenda to the RFP for the above designated project which were issued under cover letter(s) of the date(s) shown hereon:

1. Cover letter of **RFP – December 14, 2016**
2. Cover letter of **Jan. 10, 2017 – Addendum No. 1**
3. Cover letter of **Feb. 8, 2017 – Addendum No. 2**
4. Cover letter of **March 17, 2017 – Addendum No. 3**
5. Cover letter of **April 24, 2017 – Addendum No. 4**
6. Cover letter of **May 23, 2017 – Addendum No. 5**
7. Cover letter of **June 19, 2017 – Addendum No. 6**
8. Cover letter of **July 10, 2017 – Addendum No. 7**
8. Cover letter of **August 4, 2017 – Addendum No. 8**



 SIGNATURE

9/8/2017

 DATE

John Havel, Jr., PE

PRINTED NAME

Authorized Representative

TITLE



ATTACHMENT 4.8.1

PRICE PROPOSAL FORM

4.8.1 Offeror shall specify the pricing information for the items below, the dollars amount shall be in whole numbers:

Price Proposal Cost Breakdown Summary;

Design Services, LS	\$48,000,000.00
Construction Services (exclude QA/QC), LS	\$423,019,000.00
Quality Assurance (QA) (Construction), LS	\$8,000,000.00
Quality Control (QC) (Construction), LS	\$10,000,000.00

Proposal Price; (Specify the Total Lump Sum price in both numbers and words, this price shall equal to the total sum of the items listed above)

Lump Sum (LS): FOUR HUNDRED EIGHTY NINE MILLION
NINETEEN THOUSAND DOLLARS (\$489,019,000.00)

Signature:  Date: September 8, 2017

Design-Builder: LMB Constructors

Vendor No.: JV077



Attachment 4.8.2
State Project 0064-131-811

SCHEDULE OF ITEMS (ver. 4-15-2014)

This Schedule of Items shall identify the total material quantities and costs of each proposed pay item, using item codes and units of measure that are consistent with VDOT's list of standard and non-standard item codes. The Schedule of Items shall be used to cost-load the project schedule, which will serve as the basis for progress payments. Any pay items considered for price adjustments shall be identified. The values and quantities shall be clearly supported by the escrowed pricing documents.

Date: 9/8/2016

VDOT Item Code ¹	Item Description	Fuel (F) or Price (P) Adjustment	Approximate Quantity	Units ¹	Budgeted Cost (\$)
00100	MOBILIZATION		1	LS	\$ 24,000,000.00
00100	BOND & INSURANCE		1	LS	\$ 25,299,178.40
00101	CONSTRUCTION SURVEYING (CONSTR.)		1	LS	\$ 5,000,000.00
00104	DESIGN BUILD QA PROGRAM		1	LS	\$ 8,000,000.00
00104	DESIGN BUILD QC PROGRAM		1	LS	\$ 10,000,000.00
00104	DESIGN BUILD DESIGN SERVICES		1	LS	\$ 48,000,000.00
00104	PUBLIC RELATIONS		1	LS	\$ 1,200,000.00
00104	DESIGN BUILD ENVIRONMENTAL PERMITTING		1	LS	\$ 2,200,000.00
00104	DESIGN BUILD UTILITY RELOCATION		1	LS	\$ 2,100,000.00
00108	NS MONITORING INSTRUMENTATION AND MONITORING		1	LS	\$ 550,000.00
00111	CLEARING AND GRUBBING		55	AC	\$ 1,100,000.00
00120	REGULAR EXCAVATION	FUEL	138935	CY	\$ 3,473,375.00
00134	NS TEST EXCAVATION TEST PIT UNPAVED		32	EA	\$ 14,400.00
00134	NS TEST EXCAVATION TEST PIT, PAVED		14	EA	\$ 8,400.00
00141	NS BORROW EXCAVATION MIN CBR-10	FUEL	320069	CY	\$ 8,321,794.00
00150	EMBANKMENT	FUEL	55691	CY	\$ 1,169,511.00
00162	NS ACCESS ROAD B-662 WEST		1	LS	\$ 135,000.00
00162	NS ACCESS ROAD B-662 EAST		1	LS	\$ 325,000.00
00211	MINOR STR. EXCAV. PIPE CULVERT	FUEL	1375	CY	\$ 13,750.00
00212	MINOR STR. EXCAV. BOX CULVERT	FUEL	178	CY	\$ 3,916.00
85004*	UNDERCUT AND REPL W/ CBR-10		9889	CY	\$ 593,340.00
00355	GEOTEXTILE (SUBGRADE STAB.)		11839	SY	\$ 59,195.00
00505	BEDDING MATL.AGGR.NO. 25 OR 26	FUEL	24440	TN	\$ 733,200.00
00522	CONCRETE CLASS A4 BOX CULVERT	FUEL	64.05	CY	\$ 224,175.00
00525	CONCRETE CLASS A3 MISC.	FUEL	262	CY	\$ 235,800.00
00529	FLOWABLE BACKFILL		438	CY	\$ 135,780.00
00540	REINF. STEEL		7955	LB	\$ 9,943.75
00588	UNDERDRAIN UD-4		98298	LF	\$ 982,980.00
00595	OUTLET PIPE		4430	LF	\$ 75,310.00
00596	ENDWALL EW-12		125	EA	\$ 90,625.00
00700	POST INSTALLATION INSPECTION		156398	LF	\$ 508,293.50
01122	STORM SEWER PIPE 12"		241	LF	\$ 19,521.00
01156	STORM SEWER PIPE 15"		9585	LF	\$ 766,800.00
01186	STORM SEWER PIPE 18"		20040	LF	\$ 1,603,200.00
02142	STORM SEWER ELLIPTICAL PIPE 23"x14"		200	LF	\$ 30,000.00
01212	STORM SEWER PIPE 21"		650	LF	\$ 65,000.00
01241	JACKED & BORED 24" PIPE		1140	LF	\$ 1,482,000.00
01246	STORM SEWER PIPE 24"		10760	LF	\$ 1,022,200.00
02192	STORM SEWER ELLIPTICAL PIPE 30"x19"		110	LF	\$ 14,850.00
01301	JACKED & BORED 30" PIPE		564	LF	\$ 846,000.00
01306	STORM SEWER PIPE 30"		2686	LF	\$ 335,750.00
01361	JACKED & BORED 36" PIPE		620	LF	\$ 868,000.00
01362	STORM SEWER PIPE 36"		3296	LF	\$ 461,440.00
01363	REPAIR EXISTING STORM PIPE DIFFERENT SIZES		1073	LF	\$ 590,150.00

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State Project 0064-131-811

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Date: 9/8/2016

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01421	JACKED & BORED 42" PIPE		773	LF	\$ 1,004,900.00
01426	STORM SEWER PIPE 42"		434	LF	\$ 75,950.00
01481	JACKED & BORED 48" PIPE		502	LF	\$ 702,800.00
01486	STORM SEWER PIPE 48"		441	LF	\$ 123,480.00
45634	JACKED & BORED 54" PIPE		217	LF	\$ 325,500.00
01127	12" CMP		457	LF	\$ 29,705.00
06150	15" END SECTION ES-1 OR 2		132	EA	\$ 132,000.00
06181	18" END SECTION ES-1		1	EA	\$ 1,200.00
06500	23"X14" END SECTION ES-1A		6	EA	\$ 15,600.00
06241	24" END SECTION ES-1		61	EA	\$ 91,500.00
06301	30" END SECTION ES-1		4	EA	\$ 8,000.00
06360	36" END SECTION ES-1 OR 2		12	EA	\$ 33,600.00
06421	42" END SECTION ES-1		8	EA	\$ 27,200.00
06480	48" END SECTION ES-1 OR 2		4	EA	\$ 17,200.00
06481	54" ES-1		2	EA	\$ 11,600.00
06740	DROP INLET DI-1		1	EA	\$ 4,600.00
06749	DROP INLET DI-2B		84	EA	\$ 428,400.00
06799	DROP INLET DI-2F		1	EA	\$ 14,700.00
06815	DROP INLET DI-3A		1	EA	\$ 7,100.00
06817	DROP INLET DI-3B		9	EA	\$ 54,900.00
06835	DROP INLET DI-2C		28	EA	\$ 168,000.00
07506	DROP INLET DI-5		16	EA	\$ 73,600.00
07508	DROP INLET DI-7		16	EA	\$ 72,000.00
08185	DROP INLET DI-10G		1	EA	\$ 8,400.00
08189	DROP INLET DI-10H TY. I		37	EA	\$ 277,500.00
08198	DROP INLET DI-10H TY. II		33	EA	\$ 217,800.00
08220	DROP INLET DI-10I		32	EA	\$ 211,200.00
08252	DROP INLET DI-10K TY. I		14	EA	\$ 68,600.00
08280	DROP INLET DI-10L		76	EA	\$ 380,000.00
08906	DI-12 DBL GRATE		5	EA	\$ 23,000.00
08962	DROP INLET DI-13 TY.1		96	EA	\$ 345,600.00
08965	DROP INLET DI-13 TY.II		3	EA	\$ 14,700.00
08984	DROP INLET DI-14E		2	EA	\$ 10,200.00
09056	MANHOLE MH-1 OR 2		56	LF	\$ 42,560.00
09057	FRAME & COVER MH-1		7	EA	\$ 5,425.00
027422	BIO-RETENTION PONDS		42654	SF	\$ 1,023,696.00
027423	WATER QUALITY SWALES		740	LF	\$ 70,300.00
09150	EROS.CONTR.STONE CL. I, EC-1	FUEL	1820	TN	\$ 200,200.00
09250	SLOPE DRAIN		85	EA	\$ 110,500.00
10062	ASPH-STAB OPEN GRADED MATERIAL	FUEL	21430	TN	\$ 1,928,700.00
10100	AGGR. MATL. NO. 21B	FUEL	33973	TN	\$ 1,358,920.00
10017	CEM. STAB. AGR. BAS. MAT. TY.1 NO. 21A	FUEL	79368	TN	\$ 3,968,400.00
10417	TACK COAT	FUEL & ASPHALT	23810	GAL	\$ 357,150.00

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10598	NS ASPHALT CONCRETE BUILDUP BM-25.0D	FUEL & ASPHALT	69694	TN	\$ 5,227,050.00
10628	FLEXIBLE PAVE.PLANING 0"-2"	FUEL	300873	SY	\$ 902,619.00
10607	ASPHALT CONCRETE TY. SM-12.5A	FUEL & ASPHALT	1568	TN	\$ 180,320.00
10611	ASPHALT CONCRETE TY. IM-19.0A	FUEL & ASPHALT	2364	TN	\$ 200,940.00
10643	ASPHALT CONCRETE BASE COURSE TY. BM-25.0D	FUEL & ASPHALT	82930	TN	\$ 6,468,540.00
10653	STONE MATRIX ASP. SMA-12.5(76-22/64E)	FUEL & ASPHALT	73026	TN	\$ 8,397,990.00
10655	STONE MATRIX ASP. SMA-19.0(76-22/64E)	FUEL & ASPHALT	39665	TN	\$ 8,924,625.00
11070	NS SAW-CUT ASPH CONC FULL DEPTH		61816	LF	\$ 92,724.00
11071	NS SAW-CUT HYDR.CEM.CONC.PAVE. FULL DEPTH		10045	LF	\$ 35,157.50
12030	STD. CURB CG-3		1239	LF	\$ 30,975.00
12322	ASPHALT CONC. CURB TY. MC-3B		47747	LF	\$ 1,050,434.00
12505	ASPH.CONC.CURB BACKUP MATL.		3227	TN	\$ 726,075.00
12550*	MC-4		25611	LF	\$ 512,220.00
12600	STD. COMB. CURB & GUTTER CG-6		2738	LF	\$ 95,830.00
12700	STD. COMB. CURB & GUTTER CG-7		3676	LF	\$ 128,660.00
13212	R/W MONUMENT RM-1		50	EA	\$ 22,500.00
13220	HYDR. CEMENT CONC. SIDEWALK 4"		1598	SY	\$ 119,850.00
13280	GUARDRAIL GR-MGS1		9918	LF	\$ 178,524.00
13281	GUARDRAIL GR-MGS1A		96100	LF	\$ 2,883,000.00
13286	GUARDRAIL TERMINAL GR-MGS2		45	EA	\$ 135,000.00
13287	GUARDRAIL END ANCHORAGE GR-MGS3		42	EA	\$ 42,000.00
13288	GUARDRAIL HEIGHT TRANSITION GR-MGS4		73	EA	\$ 43,800.00
13383	FIXED OBJECT ATTACH. GR-FOA-1 TY. I		6	EA	\$ 16,200.00
13384	FIXED OBJECT ATTACH. GR-FOA-1 TY. II		10	EA	\$ 4,500.00
13392	FIXED OBJECT ATTACH. GR-FOA-2 TY. I		31	EA	\$ 83,700.00
13393	FIXED OBJECT ATTACH. GR-FOA-2 TY. II		24	EA	\$ 12,000.00
13460	MEDIAN BARRIER MB-7D		23395	LF	\$ 2,690,425.00
13461	MEDIAN BARRIER MB-7E		4752	LF	\$ 1,306,800.00
13485	MEDIAN BARRIER MB-8A TYPE I		8021	LF	\$ 2,005,250.00
13490	MEDIAN BARRIER MB-13		1059	LF	\$ 397,125.00
13495	TRAF. BARR. SER. CONC. SGL FC PAR.MB-10A		1450	LF	\$ 181,250.00
13496	TRAF. BARR. SER. CONC. DBL FC PAR.MB-11A		500	LF	\$ 45,000.00
13755	SOUND BARRIER #2		21559	SF	\$ 1,401,335.00
13755	SOUND BARRIER #4&5		99385	SF	\$ 4,969,250.00
13755	SOUND BARRIER #6		33592	SF	\$ 1,746,784.00
13755	SOUND BARRIER #7		130929	SF	\$ 6,546,450.00
13755	SOUND BARRIER #8		148980	SF	\$ 6,704,100.00
13755	SOUND BARRIER #9 (GRD MTD)		101335	SF	\$ 4,560,075.00
13752	SOUND BARRIER #9 (STR MTD)		13365	SF	\$ 534,600.00
13755	SOUND BARRIER #10		55365	SF	\$ 2,491,425.00
13755	SOUND BARRIER #11		39160	SF	\$ 1,762,200.00
13755	SOUND BARRIER #12		88450	SF	\$ 3,538,000.00
13755	SOUND BARRIER #13B		7753	SF	\$ 348,885.00

Attachment 4.8.2
State Project 0064-131-811

SCHEDULE OF ITEMS (ver. 4-15-2014)

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Date: 9/8/2016

VDOT Item Code ¹	Item Description	Fuel (F) or Price (P) Adjustment	Approximate Quantity	Units ¹	Budgeted Cost (\$)
13755	SOUND BARRIER #15		47322	SF	\$ 2,129,490.00
13815	NS RETAIN STRUCT SPEC DESIGN WALL #1 I64EB 1762+98		69173	SF	\$ 10,030,085.00
13815	NS RETAIN STRUCT SPEC DESIGN WALL ABUT. A B662		16636	SF	\$ 2,911,300.00
13815	NS RETAIN STRUCT SPEC DESIGN WALL ABUT. B B662		18689	SF	\$ 3,457,465.00
13815	NS RETAIN STRUCT SPEC DESIGN WALL ABUT. A B663		2449.5	SF	\$ 391,920.00
13815	NS RETAIN STRUCT SPEC DESIGN WALL ABUT. B B663		2448	SF	\$ 367,200.00
13815	NS RETAINING WALL B664/665		6080	SF	\$ 1,003,200.00
13815	NS RETAINING WALL B666/667		11642	SF	\$ 1,688,090.00
69400	GROUND IMPROVEMENTS DAP&RIGID INCLUSIONS		229906	SF	\$ 5,517,744.00
22501	FENCE FE-W1		8669	LF	\$ 86,690.00
22541	LINE BRACE UNIT FE-W1, FE-W2		44	EA	\$ 11,000.00
22542	CORNER BRACE UNIT FE-W1, FE-W2		22	EA	\$ 5,500.00
23560	TEMP. SAFETY FENCE 4'		20000	LF	\$ 100,000.00
24152	TYPE III 3 BARRICADE 8'		60	EA	\$ 10,500.00
24160	CONSTRUCTION TEMPORARY SIGN		8110	SF	\$ 283,850.00
24290	TRAFFIC BARRIER SER. CONC. MB-7D PC		165004	LF	\$ 3,960,096.00
13631*	IMPACT ATTEN. SERVICE		76	EA	\$ 912,000.00
24278	GROUP 2 CHANNELIZING DEVICES		1355	EA	\$ 121,950.00
24279	PORT.CHANGEABLE MESS. SIGN		8	EA	\$ 152,000.00
57062*	CCTV CAMERA		4	EA	\$ 120,000.00
24360	NS SAFETY WRECKER SERVICE ROLL BACK		19944	HR	\$ 438,768.00
24360	NS SAFETY WRECKER SERVICE LIGHT DUTY		7120	HR	\$ 35,600.00
80040	RAILROAD FLAGGING		8800	HR	\$ 396,000.00
80030	TEMP. RAILROAD CROSSING		2	EA	\$ 60,000.00
24370*	MOT CREW		1	LS	\$ 10,750,000.00
24201*	TEMP MOT PAVING		20345	SY	\$ 915,525.00
24420	DEMO. OF PAVEMENT (RIGID)	FUEL	48874	SY	\$ 781,984.00
24430	DEMO. OF PAVEMENT (FLEXIBLE)	FUEL	68975	SY	\$ 620,775.00
24600	DEMO GUARDRAIL		70460	LF	\$ 211,380.00
24502	NS REMOVE EXIST. / SALVAGE DMS		12	EA	\$ 72,000.00
24502	NS REMOVE EXIST. AND DISPOSE EXIST. ELEC SERVICE		1	EA	\$ 1,200.00
24502	NS REMOVE EXIST. AND SALVAGE EXISTING CABINET		1	EA	\$ 900.00
24502	NS REMOVE AND DISPOSE EXIST CABINET		1	EA	\$ 900.00
24503	NS REMOVE EXIST. SIGNAL GR. BR. BLVD/I-64		1	LS	\$ 11,000.00
55140*	REMOVE EXISTING OH & CANTILEVER SIGN STRUCTURE		29	EA	\$ 406,000.00
24704	NS REMOVE EXIST OH DBTMS STRUCT EXHRB		1	EA	\$ 35,000.00
24704	NS REMOVE EXIST DBTMS GATES/SUPPORT STRUCT EXHRB		4	EA	\$ 22,400.00
24703	NS REMOVE EXIST AND DISPOSE OF SOUND BARRIER		1023	LF	\$ 127,875.00
24703	NS REMOVE AND DISPOSE OF EXIST CONC BARRIER		10331	LF	\$ 464,895.00
24825	NS MODIFY EX BOX CULVERT/TIDE GATE @ GILMERTON CAN		1	LS	\$ 340,000.00
27508	NS COFFERDAM CULVERT/TIDE GATE @ GILMERTON CANAL		1	LS	\$ 95,000.00
25505	CJV PROJECT OFFICE		40	MO	\$ 1,920,000.00
25508	FIELD OFFICE TYPE 1		40	MO	\$ 140,000.00

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25565	PROGRESS SCHEDULE BASELINE		1	LS	\$ 75,000.00
25567	PROGRESS SCHEDULE UPDATES		39	EA	\$ 36,075.00
26127	DRY RIPRAP CL.I 26*	FUEL	4680	TN	\$ 444,600.00
27023	TOPSOIL CLASS B		28671	CY	\$ 1,003,485.00
27102	REGULAR SEED		16500	LB	\$ 198,000.00
27102*	TEMPORARY SEED		781929	SY	\$ 390,964.50
27103	OVERSEEDING		16500	LB	\$ 165,000.00
27215	FERTILIZER(15-30-15)		8	TN	\$ 17,600.00
27250	LIME		107	TN	\$ 21,400.00
27270*	EROSION CONTROL CREW		1	LS	\$ 1,750,000.00
27505	TEMP SILT FENCE TYPE A		57203	LF	\$ 85,804.50
27504	TEMP SILT FENCE TYPE B		3000	LF	\$ 7,500.00
27327	ROLLED EROSION CTRL PRODUCT EC-3 TYPE 3		67402	SY	\$ 235,907.00
27415	CHECK DAM(ROCK) TY. II		136	EA	\$ 51,000.00
27422	DEWATERING BASIN EC-8		6	EA	\$ 870.00
27430	SILTATION CONTROL EXCAVATION	FUEL	494	CY	\$ 41,990.00
27451	INLET PROTECTION , TYPE A		144	EA	\$ 46,800.00
27461	INLET PROTECTION , TYPE B		418	EA	\$ 94,050.00
27525	TURBIDITY CURTAIN, PERVIOUS		1584	LF	\$ 134,640.00
27550	STORM WATER MAN.DRAIN.STR.SWM		94	LF	\$ 122,200.00
38953	NS LANDSCAPE		1	LS	\$ 1,350,000.00
39004	NS SEED MIXTURE SWM BASINS		585	LB	\$ 84,825.00
50108	SIGN PANEL OH SIGNS ONLY		20049	SF	\$ 761,862.00
50108	SIGN PANEL (GROUND MTD)		4898	SF	\$ 244,900.00
50432	SIGN POST STP-1, 2 3/16", 10 GAGE		700	LF	\$ 11,900.00
50404	VA SIGN POST, W4X13		900	LF	\$ 76,500.00
50485	CONC.FOUND.STP-1 TYPE A		70	EA	\$ 56,000.00
50502	CONC.FOUND.SSP-V A 1'9" DIA.X 4'6" D		70	EA	\$ 91,000.00
50974	REMOVE & DISPOSE EXIST GROUND MTD SIGN STR		172	EA	\$ 94,600.00
50974	REMOVE EXIST FTR SIGN STRUCTURE 4' DIA 2' BELOW GR		87	EA	\$ 200,100.00
50974	REMOVE EXIST/DISPOSE OH SIGN PANEL		13059	SF	\$ 91,413.00
50974	REMOVE EXIST SIGNAL MTD SIGN/DMS		1	EA	\$ 6,000.00
50974	NS OH SIGN STRUCTURE MTD TO BRG		2	EA	\$ 24,000.00
50974	NS OH SIGN FOUND. DRILLED SHAFT (4' DIA X 20' DEEP		1780	CY	\$ 4,450,000.00
50974	NS OH SIGN SPAN 45'-80' DUAL POST		13	EA	\$ 1,040,000.00
50974	NS OH SIGN SPAN 80'-100' DUAL POST		12	EA	\$ 1,320,000.00
50974	NS OH SIGN SPAN 100'-110' DUAL POST		4	EA	\$ 520,000.00
50974	NS OH SIGN SPAN 110'-130' DUAL POST		1	EA	\$ 150,000.00
50974	NS OH SIGN SPAN 160'-180' DUAL POST		4	EA	\$ 920,000.00
50974	NS CANTILEVER SIGN SPAN 40'-60' DUAL POST		9	EA	\$ 576,000.00
56205	Test Bore OH signs		86	EA	\$ 258,000.00
51243	NS CONCRETE FOUNDATION CAMERA POLE		59	EA	\$ 236,000.00
57060	CCTV CAMERA (DIGITAL)		83	EA	\$ 996,000.00

Attachment 4.8.2
State Project 0064-131-811

SCHEDULE OF ITEMS (ver. 4-15-2014)

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Date: 9/8/2016

VDOT Item Code ¹	Item Description	Fuel (F) or Price (P) Adjustment	Approximate Quantity	Units ¹	Budgeted Cost (\$)
57060*	REMOVE CCTV		41	EA	\$ 82,000.00
57091	CCTV CAMERA POLE (40')		59	EA	\$ 944,000.00
54075	TY.B CL.VI PAVE. LINE MARK. 4"		42500	LF	\$ 127,500.00
54076	TY.B CL.VI PAVE. LINE MARK. 6"		244062	LF	\$ 732,186.00
54077	TY.B CL.VI PAVE. LINE MARK. 8"		221000	LF	\$ 1,215,500.00
54078	TY.B CL.VI PAVE. LINE MARK.12"		2800	LF	\$ 22,400.00
54100	NS PAVT MRKG TY.B CL.VI PAVE. LINE MARK 24"		291	LF	\$ 2,619.00
54105	ERAD. OF EXIST.LINEAR PAVE.MARKING		470324	LF	\$ 235,162.00
54217	SNOW PLOW.RAISED PAVE.MARK.ASPH.CONC		2576	EA	\$ 77,280.00
54402	NS PAVE. MESS MRKG HOT LANE		5	EA	\$ 3,250.00
54079	TYPE B CLASS VI CONTRAST PVMT MRKG 4"		730	LF	\$ 4,015.00
54080	TYPE B CLASS VI CONTRAST PVMT MRKG 6"		74779	LF	\$ 448,674.00
54100	NS TYPE B CLASS VI CONTRAST PVMT MRKG 12"		9649	LF	\$ 67,543.00
54614	PVMT. SYMB. MRKG. (HOV DIAMOND, ASPH SURF) TY B, C		52	EA	\$ 10,400.00
54300	PREFORMED PAVEMENT ARROW		2	EA	\$ 500.00
54250	PREFORMED BICYCLE LANE ARROW		14	EA	\$ 1,820.00
54254	PREFORMED BICYCLE LANE SYMBOL		14	EA	\$ 1,400.00
54400	PREFORMED PAVEMENT MARKING LETTER "ONLY"		1	EA	\$ 500.00
54107*	SHOULDER LANE PREFORMED MARKING		16	EA	\$ 20,800.00
54107*	I-64 PREFORMED SHIELD MARKING		5	EA	\$ 17,500.00
50036	FLEXIBLE POST DELINEATOR, SURFACEMOUNT		9649	EA	\$ 820,165.00
54107*	HIGH FRICTION SURFACE TREATMENT		48080	SY	\$ 1,202,000.00
54512	TYPE D, CLASS II TEMP. PVMT MRKG 4"		459499	LF	\$ 689,248.50
54240	TEMP. PAVE. MARKER 1 WAY		2394	EA	\$ 21,546.00
55140	CONCRETE FOUNDATION LF-1 TY. A		233	EA	\$ 396,100.00
55140*	NS LIGHTING BRIDGE FOUNDATION		48	EA	\$ 264,000.00
55140*	NS CONCRETE FOUNDATION LIGHT POLE BARRIER MOUNT		55	EA	\$ 412,500.00
55192	LIGHTING POLE LP-2 TYPE G		163	EA	\$ 358,600.00
55190	LIGHTING POLE LP-1 30'-6"		2	EA	\$ 5,200.00
55190	LIGHTING POLE LP-1 40'		46	EA	\$ 161,000.00
55190	LIGHTING POLE LP-2 TYPE F		76	EA	\$ 304,000.00
55190	NS LIGHT POLE LP-2 TYPE G (TWIN LUMINAIRE) ATC2		40	EA	\$ 164,000.00
55175*	TEMP. WOOD LIGHTING POLE		180	EA	\$ 288,000.00
55190*	NS LIGHTING POLE LP-2 TYPE G (TWIN LUMINAIRES)		40	EA	\$ 200,000.00
51614	#0 CONDUCTOR CABLE		162000	LF	\$ 972,000.00
55190*	RELOCATE COPPERHEAD POLE/FIXTURE		107	EA	\$ 171,200.00
55348	ELECT. SERVICE SE-9 TYPE A		5	EA	\$ 70,000.00
55353	CONTROL CENTER CCW-1 TYPE D		6	EA	\$ 156,000.00
55581	JUNCTION BOX JB-R1		98	EA	\$ 343,000.00
55586	JUNCTION BOX JB-S1		308	EA	\$ 554,400.00
56032	2" RIGID STEEL CONDUIT		7350	LF	\$ 249,900.00
56040	4" RIGID STEEL CONDUIT		8450	LF	\$ 549,250.00
57361	2" HDPE CONDUIT		120625	LF	\$ 603,125.00

Attachment 4.8.2
State Project 0064-131-811

SCHEDULE OF ITEMS (ver. 4-15-2014)

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Date: 9/8/2016

VDOT Item Code ¹	Item Description	Fuel (F) or Price (P) Adjustment	Approximate Quantity	Units ¹	Budgeted Cost (\$)
57361*	4" HDPE CONDUIT		81150	LF	\$ 730,350.00
45532	6" STEEL ENCASMENT PIPE		2300	LF	\$ 517,500.00
45542	8" STEEL ENCASMENT PIPE		200	LF	\$ 59,000.00
45552	12" STEEL ENCASMENT PIPE		550	LF	\$ 192,500.00
45562	16" STEEL ENCASMENT PIPE		100	LF	\$ 50,000.00
55587	JUNCTION BOX JB-S2		33	EA	\$ 49,500.00
56053	2" PVC CONDUIT		68836	LF	\$ 619,524.00
55020	#2 CONDUCTOR CABLE		323376	LF	\$ 1,131,816.00
55126	#8 EGC CONDUCTOR CABLE		16176	LF	\$ 32,352.00
56050	2" BORED CONDUIT		570	LF	\$ 11,970.00
56032	2" METAL CONDUIT		2800	LF	\$ 58,800.00
56055	4" PVC CONDUIT		1000	LF	\$ 9,000.00
56200	TRENCH EXCAVATION ECI-1		51110	LF	\$ 664,430.00
56205	TEST BORE LIGHTING		20	EA	\$ 32,000.00
59000	NS LUMINAIRES 100 WATT LED UNDERBRIDGE		6	EA	\$ 5,100.00
59000	NS LUMINAIRES 168 WATT LED		109	EA	\$ 87,200.00
59000	NS LTG LUMIN. 269 WATT LED OFFSET		263	EA	\$ 315,600.00
59000	NS LTG LUMIN. 400 WATT LED OFFSET		141	EA	\$ 225,600.00
56050	NS PHOTOCCELL & NODE		404	EA	\$ 70,700.00
59000	NS LTG SALVAGE EXISTING LIGHT POLE		20	EA	\$ 40,000.00
59000	INSTALL/RELOCATE NS LUMINAIRE 269W LED		182	EA	\$ 291,200.00
59000	NS LTG TEMPORARY ELECTRICAL SERVICE		3	EA	\$ 120,000.00
59003	NS LTG TEMPORARY ROADWAY LIGHTING		1	LS	\$ 150,000.00
59101*	PROPANE TANK WITH PAD		18	EA	\$ 720,000.00
59101*	PAVED DRIVEWAY GENERATOR PAD		1900	SY	\$ 161,500.00
59101*	BOLLARDS		72	EA	\$ 32,400.00
67088	FENCE GATES		36	EA	\$ 57,600.00
67088	FENCE		3600	LF	\$ 126,000.00
59101*	POWER SERVICE DROPS DOMINION POWER		6	EA	\$ 180,000.00
59060	NS COMM EQUIP. OH TOLL GANTRYS 30' BOX CANTILEVER		4	EA	\$ 300,000.00
59060	NS COMM EQUIP. TOLL GANTRY TECHNICAL SHELTERS		2	EA	\$ 250,000.00
59060	NS COMM EQUIP. ITS COMMUNICATION CABINETS		81	EA	\$ 891,000.00
59050	REMOVE CABINET		65	EA	\$ 45,500.00
59050	POLE MOUNTED JUNCTION BOX		9	EA	\$ 108,000.00
57160	VDS DETECTOR		90	EA	\$ 900,000.00
59050	LANE CONTROL SIGNAL		18	EA	\$ 270,000.00
52000*	ITS SIGNAL 16' MAST ARM		7	EA	\$ 112,000.00
50902	CANTILEVER 16' BOX SIGN STR MTD EXIST HRB		2	EA	\$ 80,000.00
51912	LOOP SAW CUT 3/8"		250	LF	\$ 11,250.00
57257	LAYER 3 SWITCH (TOLLING POINTS)		2	EA	\$ 20,000.00
57221	LAYER 2 SWITCH (FIELD DEVICE)		87	EA	\$ 261,000.00
57105	DMS CONTROLLER		16	EA	\$ 96,000.00
57215*	FIBER SPLICE TRAY		83	EA	\$ 207,500.00

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SCHEDULE OF ITEMS (ver. 4-15-2014)

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57204	FIBER PATCH PANEL		83	EA	\$ 166,000.00
57204*	COPPER PATCH PANEL		83	EA	\$ 20,750.00
57060	CCTV INTERFACE PANEL		73	EA	\$ 146,000.00
57060*	MEDIA CONVERTER		7	EA	\$ 245,000.00
57060*	SURGE SUPPRESSOR		83	EA	\$ 581,000.00
57070	ENCODER		73	EA	\$ 182,500.00
57070*	MVDS CONTROL EQUIPMENT		45	EA	\$ 450,000.00
57070*	HVAC CABINET HEAT AND COOL UNIT		39	EA	\$ 253,500.00
57070*	SERVICE DISCONNECT		81	EA	\$ 324,000.00
59101*	GENERATOR 40 KW ASSEMBLY WITH PAD		8	EA	\$ 400,000.00
59101*	GENERATOR 75 KW ASSEMBLY WITH PAD		3	EA	\$ 195,000.00
59101*	GENERATOR 100 KW ASSEMBLY WITH PAD		5	EA	\$ 575,000.00
59101*	GENERATOR 150 KW ASSEMBLY WITH PAD		2	EA	\$ 400,000.00
59101*	NEW 250 AMP SERVICE PANEL		18	EA	\$ 450,000.00
59101*	NEW 480 AMP SERVICE 3-PHASE PANEL		10	EA	\$ 350,000.00
57210	UNDERGROUND SPLICE ENCLOSURE		10	EA	\$ 100,000.00
51540	LOOP DETECTOR AMPLIFIER		3	EA	\$ 42,000.00
57050*	SINGLE PHASE TRANSFORMER		81	EA	\$ 486,000.00
57050	UPS		83	EA	\$ 996,000.00
51176	ELECTRICAL SERVICE SE-11 TYPE B		9	EA	\$ 31,500.00
55385	ELECTRICAL SERVICE WORK PAD		9	EA	\$ 13,500.00
51137	ELECTRICAL SERVICE GROUNDING ELECTRODE		9	EA	\$ 2,250.00
59060	INSTALL NEW DMS SIGN TY1		5	EA	\$ 800,000.00
59060	INSTALL NEW DMS SIGN TY2		3	EA	\$ 450,000.00
59060	REMOVE AND RELOCATE EXISTING DMS SIGN		11	EA	\$ 165,000.00
59060	NS COMM EQUIP. UNINTERRUPTABLE POWER SUPPLY DMS		1	LS	\$ 310,000.00
57200	FIBER OPTIC CABLE (24 STRAND)		16200	LF	\$ 81,000.00
57200*	FIBER OPTIC CABLE (30 STRAND)		9000	LF	\$ 47,250.00
57200*	FIBER OPTIC CABLE (36 STRAND)		12900	LF	\$ 64,500.00
57201	FIBER OPTIC CABLE (48 STRAND)		10250	LF	\$ 61,500.00
57202	FIBER OPTIC CABLE (96 STRAND)		48250	LF	\$ 337,750.00
57202*	FIBER OPTIC CABLE (18 STRAND)		4900	LF	\$ 24,500.00
57203	FIBER OPTIC CABLE (12 STRAND)		6300	LF	\$ 25,200.00
59071*	FIBER OPTIC CABLE (6 STRAND)		15000	LF	\$ 60,000.00
57203	FIBER OPTIC DROP CABLE (12 STRAND)		4050	LF	\$ 24,300.00
59071	NS COMM EQUIP. ITS CONDUIT, 2" METAL		7350	LF	\$ 44,100.00
59071	NS COMM EQUIP. ITS CONDUIT, 4" METAL		8450	LF	\$ 549,250.00
55080	8 CONDUCTOR CABLE		6550	LF	\$ 19,650.00
55060	6 CONDUCTOR CABLE		7600	LF	\$ 22,800.00
55020	2 CONDUCTOR CABLE		57800	LF	\$ 289,000.00
55000	00 CONDUCTOR CABLE		53775	LF	\$ 430,200.00
51720	CAT 5 OUTDOOR CABLE		86	EA	\$ 18,060.00
57165	VDS COMPOSITE CABLE		4500	LF	\$ 58,500.00

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State Project 0064-131-811

SCHEDULE OF ITEMS (ver. 4-15-2014)

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57140	DMS COMMUNICATION CABLE		2000	LF	\$ 22,000.00
57140*	LANE CONTROL COM CABLE		1800	LF	\$ 10,800.00
55001*	12/2 CABLE		100	LF	\$ 1,000.00
55001*	24/4 PAIR CABLE		1100	LF	\$ 6,600.00
59071	NS COMM EQUIP. RELOCATE EXISTING FIBER OPTIC CABLE		20200	LF	\$ 181,800.00
56200	TRENCH EXCAVATION ECI-1 ITS		44975	LF	\$ 899,500.00
56040*	BRIDGE UNDER-MOUNTED CONDUITS 2 WAY 4"		10800	LF	\$ 702,000.00
56098	JACK AND BORE ITS 2 WAY 4"		21625	LF	\$ 1,730,000.00
51030	CONTROLLER, TY. A		1	EA	\$ 40,000.00
51137	INSTALL CONTROLLER		1	EA	\$ 1,000.00
51184	TRAF. SIG. HEAD SEC 12" LED		18	EA	\$ 14,400.00
51198	PEDESTRIAN ACTUATION PA-2		4	EA	\$ 1,400.00
51210	PEDESTAL POLE PF-2 10'		3	EA	\$ 6,000.00
51238	CONC. FOUND. SIGNAL POLE PF-8		40	CY	\$ 64,000.00
51245	CONCRETE FOUND. CF-1		1	EA	\$ 1,500.00
51480	SIGNAL POLE MP-3, TYPE E		1	EA	\$ 16,000.00
51482	SIGNAL POLE MP-3, TYPE F		1	EA	\$ 20,000.00
51485	MAST ARM 30'		1	EA	\$ 5,500.00
51486	MAST ARM 40'		1	EA	\$ 5,500.00
51487	MAST ARM 49'		1	EA	\$ 8,300.00
51507	VIDEO DETECTION CAMERA		3	EA	\$ 36,000.00
51508	VIDEO DETECTION CABLE		420	LF	\$ 1,260.00
51521	EVP DETECTION SYSTEM 1-WAY		3	EA	\$ 7,500.00
51525	EVP DETECTOR CABLE		420	LF	\$ 1,260.00
51601	14/3 CONDUCTOR CABLE		610	LF	\$ 1,830.00
51602	14/4 CONDUCTOR CABLE		610	LF	\$ 1,830.00
51607	14/7 CONDUCTOR CABLE		420	LF	\$ 1,260.00
51933	REMOVE EXISTING POLE SIGNAL		4	EA	\$ 8,000.00
51936	REMOVE EXISTING CONTROLLER SIGNAL		1	EA	\$ 2,400.00
51945	INSTALL SIGN SIGNAL		4	EA	\$ 5,600.00
51955	TEMPORARY TRAFFIC CONTROL SIGNAL		1	LS	\$ 45,000.00
52403	PEDESTRIAN SIGNAL HEAD SP-8		4	EA	\$ 4,800.00
55126	CONDUCTOR CABLE, NO. 8 EGC		275	LF	\$ 1,375.00
55343	ELECT. SERVICE SE-6		1	EA	\$ 5,000.00
55587	JUNCTION BOX JB-S2 SIGNAL		4	EA	\$ 6,000.00
56051	BORED CONDUIT 3" SIGNAL		155	LF	\$ 7,750.00
56054	3" PVC CONDUIT		275	LF	\$ 2,475.00
56200	TRENCH EXCAVATION ECI-1 SIGNAL		125	LF	\$ 1,875.00
56205	TEST BORE SIGNAL		2	EA	\$ 2,400.00
59000	NS 10/3 CONDUCTOR CABLE		300	LF	\$ 1,800.00
60125	NS BRIDGE PIER PROTECTION, BPPS-1 B664/665		1	LS	\$ 420,000.00
60125	NS BRIDGE PIER PROTECTION, BPPS-1 B666/667		1	LS	\$ 250,000.00
60125	NS BRIDGE PIER PROTECTION, BPPS-1 B668/669		1	LS	\$ 100,000.00

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SCHEDULE OF ITEMS (ver. 4-15-2014)

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60125	NS BRIDGE PIER PROTECTION, BPPS-3 I-64/RTE 17		1	LS	\$ 85,000.00
60125	NS BRIDGE PIER PROTECTION, BPPS-1 I-64/RTE 17		1	LS	\$ 85,000.00
60125	NS BRIDGE PIER PROTECTION, B662 @ LIBERTYVILLE		1	LS	\$ 500,000.00
60125	NS BRIDGE PIER PROTECTION, BPPS-1 B663		1	LS	\$ 85,000.00
60125	NS BRIDGE PIER PROTECTION, BPPS-1 I-464/I-64 BRIDG		1	LS	\$ 935,000.00
60420	NS CONCRETE CONC. CL. A4 BR. APPR. SLAB B662		217	CY	\$ 110,670.00
60420	NS CONCRETE CONC. CL. A4 BR. APPR. SLAB B663		114	CY	\$ 116,850.00
60420	NS CONCRETE CONC. CL. A4 BR. APPR. SLAB B664/665		131	CY	\$ 78,600.00
60420	NS CONCRETE CONC. CL. A4 BR. APPR. SLAB B666/667		128	CY	\$ 107,520.00
60420	NS CONCRETE CONC. CL. A4 BR. APPR. SLAB B668/669		147	CY	\$ 116,130.00
60452	REINF. STEEL BRIDGE APPR. SLAB B662		32101	LB	\$ 48,151.50
60452	REINF. STEEL BRIDGE APPR. SLAB B663		22843	LB	\$ 34,264.50
60452	REINF. STEEL BRIDGE APPR. SLAB B664/665		23711	LB	\$ 35,566.50
60452	REINF. STEEL BRIDGE APPR. SLAB B666/667		23040	LB	\$ 34,560.00
60452	REINF. STEEL BRIDGE APPR. SLAB B668/669		26607	LB	\$ 39,910.50
60490	BRIDGE DECK GROOVING B662		59756	SY	\$ 179,268.00
60490	BRIDGE DECK GROOVING B663		1384	SY	\$ 8,304.00
60490	BRIDGE DECK GROOVING B664/665		873	SY	\$ 6,111.00
60490	NS BRIDGE DECK GROOVING B666/667		908	SY	\$ 6,356.00
60490	BRIDGE DECK GROOVING B668/669		1728	SY	\$ 9,504.00
60495	COVER DEPTH SURVEY B663		1384	SY	\$ 2,076.00
60495	COVER DEPTH SURVEY B662		59756	SY	\$ 89,634.00
60495	COVER DEPTH SURVEY B664/665		873	SY	\$ 1,309.50
60495	COVER DEPTH SURVEY B666/667		908	SY	\$ 1,362.00
60495	COVER DEPTH SURVEY B668/669		682	SY	\$ 1,023.00
68131	NS PRESTR CONC BM BULB-T 153' 4" SPAN B662		8	EA	\$ 520,000.00
68131	NS PRESTR CONC BM BULB-T 180' 0" SPAN B662		104	EA	\$ 6,760,000.00
68131	NS PRESTR CONC BM BULB-T 178'-4" SPAN B662		8	EA	\$ 560,000.00
68131	NS PRESTR CONC BM BULB-T 177' 6" SPAN B662		96	EA	\$ 7,680,000.00
68131	NS PRESTR CONC BM BULB-T 155' 0" SPAN B662		24	EA	\$ 1,320,000.00
68131	NS PRESTR CONC BM BULB-T 145' 0" SPAN B662		16	EA	\$ 880,000.00
68131	NS PRESTR CONC BM BULB-T 151' 0" SPAN B663		10	EA	\$ 620,000.00
68131	NS PRESTR CONC BM BULB-T 39' 0" SPAN B668/669		16	EA	\$ 336,000.00
68131	NS PRESTR CONC BM BULB-T 43' 6" SPAN B668/669		8	EA	\$ 160,000.00
61800	NS STRUCT. STEEL B664/665		1	LS	\$ 1,500,000.00
61800	NS STRUCTURAL STEEL B666/667		1	LS	\$ 1,350,000.00
61800	NS STRUCT. STEEL B662		1	LS	\$ 6,500,000.00
62000	NS PARAPET B662		12768	LF	\$ 3,626,112.00
62021	NS RAILING BR27D-10AT W PED FC TY B B663		394	LF	\$ 226,550.00
62021	NS RAILING BR27D-10AT W PED FC TY C B663		394	LF	\$ 226,550.00
62000	NS PARAPET B664/665		496	LF	\$ 178,560.00
62000	NS MEDIAN BARRIER CAST-IN-PLACE CONC F-SHAPE B664/		205	LF	\$ 33,825.00
62000	NS PARAPET B666/667		634	LF	\$ 221,900.00

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62000	NS MEDIAN BARRIER CAST-IN-PLACE CONC F-SHAPE B666/		205	LF	\$ 33,825.00
62000	NS PARAPET B668/669		272	LF	\$ 88,400.00
62406	TOOTH EXPANSION JOINT ASSEMBLY 2"		342	LF	\$ 649,800.00
62406	TOOTH EXPANSION JOINT ASSEMBLY 2.5"		171	LF	\$ 324,900.00
68158	NS BRIDGE INCIDENTALS B663 DECK DRAINAGE SYSTEM		1	LS	\$ 40,000.00
62495	NS ELASTOMERIC EXPANSION DAM B668/669		216	LF	\$ 66,960.00
64011	STRUCTURE EXCAVATION B662	FUEL	5165	CY	\$ 1,730,275.00
64011	STRUCTURE EXCAVATION B663	FUEL	104	CY	\$ 6,760.00
64011	STRUCTURE EXCAVATION B664/665	FUEL	872	CY	\$ 12,208.00
64011	STRUCTURE EXCAVATION B666/667	FUEL	1386	CY	\$ 19,404.00
64011	STRUCTURE EXCAVATION B668/669	FUEL	417	CY	\$ 39,615.00
64032	GEOCOMPOSITE WALL DRAIN		195	SY	\$ 12,675.00
64036	PIPE UNDERDRAIN 6"		456	LF	\$ 9,120.00
64045	TEMPORARY SHEET PILING B663		2100	SF	\$ 273,000.00
64045	TEMPORARY SHEET PILING B664/665		555	SF	\$ 80,475.00
64045	TEMPORARY SHEET PILING B666/667		753	SF	\$ 128,010.00
64045	TEMPORARY SHEET PILING B668/669		864	SF	\$ 99,360.00
64876	24" PIPE PILE B662		2564	LF	\$ 576,900.00
64875	NS PILE PRESTR CONC PILE 36" B662 LAND		7924	LF	\$ 3,962,000.00
64875	NS PILE PRESTR CONC PILE 36" B662 MARINE		19976	LF	\$ 9,988,000.00
64875	NS PILE PRESTR CONC PILE 30" B662		2930	LF	\$ 966,900.00
64876	24" PIPE PILE DRIVING TEST B662		2	EA	\$ 40,000.00
64876	NS PILE RESTRIKE TEST PILE 24" PIPE PILE B662		1	EA	\$ 18,000.00
64876	NS PILE DYNAMIC PILE TEST 24" PIPE PILE B662		5	EA	\$ 17,500.00
64876	NS PILE RESTRIKE 24" PIPE PILE B662		1	EA	\$ 5,600.00
64875	NS PILE PRESTR CONC PILE 18" B662		2462	LF	\$ 258,510.00
64876	NS PILE DRIVING TEST 30" CONC PILE B662		4	EA	\$ 80,000.00
64876	NS PILE RESTRIKE TEST PILE 30" CONC PILE B662		1	EA	\$ 23,000.00
64876	NS PILE DYNAMIC PILE TEST 30" CONC PILE B662		7	EA	\$ 24,500.00
64876	NS PILE RESTRIKE 30" PIPE PILE B662		1	EA	\$ 15,000.00
64876	NS PILE DRIVING TEST 36" CONC PILE B662		28	EA	\$ 560,000.00
64876	NS PILE RESTRIKE TEST PILE 36" CONC PILE B662		3	EA	\$ 45,000.00
64876	NS PILE DYNAMIC PILE TEST 36" CONC PILE B662		40	EA	\$ 140,000.00
64876	NS PILE RESTRIKE 36" PIPE PILE B662		2	EA	\$ 18,000.00
64876	NS PILE RESTRIKE 36" PIPE PILE B662 MARINE		1	EA	\$ 5,800.00
64876	NS PILE DRIVING TEST 18" CONC PILE B662		2	EA	\$ 12,000.00
64876	NS PILE RESTRIKE TEST PILE 18" CONC PILE B662		2	EA	\$ 12,000.00
64876	NS PILE DYNAMIC PILE TEST 18" CONC PILE B662		8	EA	\$ 28,000.00
64876	NS PILE RESTRIKE 18" CONC PILE B662		44	EA	\$ 66,000.00
64875	NS PILE STEEL PILE 12" B663		5240	LF	\$ 393,000.00
64876	NS PILE DRIVING TEST 12" STEEL PILE B663		3	EA	\$ 30,300.00
64876	NS PILE RESTRIKE TEST PILE 12" STEEL PILE B663		3	EA	\$ 3,300.00
64876	NS PILE DYNAMIC PILE TEST 12" STEEL PILE B663		2	EA	\$ 6,000.00

Attachment 4.8.2
State Project 0064-131-811

SCHEDULE OF ITEMS (ver. 4-15-2014)

This Schedule of Items shall identify the total material quantities and costs of each proposed pay item, using item codes and units of measure that are consistent with VDOT's list of standard and non-standard item codes. The Schedule of Items shall be used to cost-load the project schedule, which will serve as the basis for progress payments. Any pay items considered for price adjustments shall be identified. The values and quantities shall be clearly supported by the escrowed pricing documents.

Date: 9/8/2016

VDOT Item Code ¹	Item Description	Fuel (F) or Price (P) Adjustment	Approximate Quantity	Units ¹	Budgeted Cost (\$)
64876	NS PILE RESTRIKE PILE 12" STEEL PILE B663		20	EA	\$ 24,000.00
64875	NS PILE HP12X53 STEEL PILE B664/665		2720	LF	\$ 231,200.00
64876	NS PILE DRIVING TEST FOR 12" STEEL PILE B664/665		2	EA	\$ 20,000.00
64876	NS PILE DYNAMIC PILE TEST FOR 12" STEEL PILE B664/		2	EA	\$ 6,600.00
64876	NS PILE RE-STRIKE 12" STEEL PILE B664/665		36	EA	\$ 39,600.00
64875	NS PILE HP 12X53 STEEL PILE B666/667		1530	LF	\$ 153,000.00
64876	NS PILE DRIVING TEST HP12X53 STEEL PILE B666/667		2	EA	\$ 21,000.00
64876	NS PILE DYNAMIC PILE TEST FOR 12" STEEL PILE B666/		2	EA	\$ 6,000.00
64876	NS PILE RE-STRIKE 12" STEEL PILE B666/667		18	EA	\$ 19,800.00
64875	NS PILE PRESTR CONC PILE 12" B668/669		1540	LF	\$ 77,000.00
64876	NS PILE DRIVING TEST 12" CONC PILE B668/669		2	EA	\$ 12,000.00
64876	36" PIPE PILE B668 (ATC 5)		330	LF	\$ 115,500.00
64876	36" PIPE PILE COATINGS		330	LF	\$ 11,550.00
65200	REINF. STEEL - MINOR BRIDGES		48620	LB	\$ 72,930.00
65211	CORROSION RESISTANT REINF. STEEL CL. I - MINOR BRID		39060	LB	\$ 156,240.00
65213	CORROSION RESISTANT REINF. STEEL CL. III - MINOR BR		286796	LB	\$ 1,147,184.00
66740	CONC. SLAB SLOPE PROTECTION 4"		478	SY	\$ 62,140.00
69401	WICK DRAINS		723040	LF	\$ 1,229,168.00
66920	NS BRIDGE SUBSTRUCTURE B662 LAND	FUEL	10707	CY	\$ 8,030,250.00
66920	NS BRIDGE SUBSTRUCTURE B662 MARINE	FUEL	17600	CY	\$ 14,960,000.00
65200	REINF. STEEL - B662		3850412	LB	\$ 4,813,015.00
65211	CORROSION RESISTANT REINF STEEL CL. I - B662		1779821	LB	\$ 4,627,534.60
65213	CORROSION RESISTANT REINF STEEL CL. III - B662		4609336	LB	\$ 17,285,010.00
66920	NS BRIDGE SUBSTRUCTURE B663	FUEL	180	CY	\$ 162,000.00
66920	NS BRIDGE SUBSTRUCTURE B664/665	FUEL	200	CY	\$ 300,000.00
66920	NS BRIDGE SUBSTRUCTURE B666/667	FUEL	32	CY	\$ 80,000.00
66920	NS BRIDGE SUBSTRUCTURE B668/669	FUEL	160	CY	\$ 208,000.00
66920	NS RECONSTRUCT BACKWALL B668/669		1	LS	\$ 51,000.00
62531	NS BRIDGE SUPERSTRUCTURE B662 LAND	FUEL	9929.67	CY	\$ 8,440,219.50
62531	NS BRIDGE SUPERSTRUCTURE B662 MARINE	FUEL	8099.69	CY	\$ 7,087,228.75
62531	NS BRIDGE SUPERSTRUCTURE B663	FUEL	515	CY	\$ 566,500.00
62531	NS BRIDGE SUPERSTRUCTURE B664/665	FUEL	240	CY	\$ 264,000.00
62531	NS BRIDGE SUPERSTRUCTURE B666/667	FUEL	322	CY	\$ 483,000.00
62531	NS BRIDGE SUPERSTRUCTURE B668/669	FUEL	190	CY	\$ 380,000.00
67904	NS BRIDGE INCIDENTALS EXHRB DBTMS GATES		4	EA	\$ 840,000.00
67904	NS BRIDGE INCIDENTALS EXHRB DBTMS OH DDMS/SIGNALS		3	EA	\$ 21,000.00
67904	NS BRIDGE INCIDENTALS B662 DECK DRAINAGE SYSTEM		1	LS	\$ 650,000.00
67904	NS BRIDGE INCIDENTALS B662 STANDPIPE SYSTEM		1	LS	\$ 1,200,000.00
67904	NS BRIDGE INCIDENTALS B662/EXHRB FENDER SYSTEM		1	LS	\$ 3,500,000.00
67904	NS BRIDGE INCIDENTALS B662 NAVIGATION LIGHTS		14	EA	\$ 98,000.00
68315	NS MILLING EXISTING BRIDGE DECK B668/669		1047	SY	\$ 13,611.00
68620*	NS OVERLAY EXISTING BRIDGE DECK B668/669		1047	SY	\$ 41,880.00
68190	CONC SURFACE COLOR COAT B663		683	SY	\$ 10,245.00

Attachment 4.8.2
State Project 0064-131-811

SCHEDULE OF ITEMS (ver. 4-15-2014)

This Schedule of Items shall identify the total material quantities and costs of each proposed pay item, using item codes and units of measure that are consistent with VDOT's list of standard and non-standard item codes. The Schedule of Items shall be used to cost-load the project schedule, which will serve as the basis for progress payments. Any pay items considered for price adjustments shall be identified. The values and quantities shall be clearly supported by the escrowed pricing documents.

Date: 9/8/2016

VDOT Item Code ¹	Item Description	Fuel (F) or Price (P) Adjustment	Approximate Quantity	Units ¹	Budgeted Cost (\$)
67900	NS DISM & REM EXISTING STR. 2544		1	LS	\$ 350,000.00
68900	NS REM. PORT.OF EX.STR. NO. 2513/2514		1	LS	\$ 95,000.00
68904	NS BR.SUPERSTR. WID./REPAIR BEARING REPLACE B668/6		72	EA	\$ 288,000.00
68571	NS EXPANSION JOINT RECONSTRUCTION B668/669		325	LF	\$ 113,750.00
11120	NS TRESTLE/BULKHEAD B-662 WEST		1	LS	\$ 600,000.00
11120	NS TRESTLE/BULKHEAD B-662 EAST		1	LS	\$ 525,000.00
66121	NS COFFERDAM B662 PIER 5		1	EA	\$ 190,000.00
24703	NS REMOVE EXIST BARRIER - B670		4850	LF	\$ 315,250.00
68315	TYPE A MILLING, 1.5" - B670		3064	SY	\$ 30,640.00
68620*	LATEX HYDR CEM CONCRETE OVERLAY - B670		3064	SY	\$ 91,920.00
68906	NS STEEL DECKING - B670		531	SF	\$ 106,200.00
68902	TOOTH EXPANSION JOINT, 2.5" - B670		23	LF	\$ 46,000.00
68907	NS BASCULE SPAN MODIFICATIONS - B670		11850	LB	\$ 165,900.00

¹ Use five-digit work item codes and units of measure that are consistent with VDOT's list of standard and non-standard item codes (i.e. 00100-Mobilization; 00120-Regular Excavation, etc...).



The Lane Construction Corporation		I-64 Southside Widening and High Rise Bridge, Phas	
90 Fieldstone Court		Contract ID Number: C00106692DB93	
Cheshire, CT 06410		Proposed Monthly Payment Schedule	
		Bid Date: September 8, 2017	
Month	Year	Monthly Draw	Cumulative Draw
November	2017	\$ 11,162,000	\$ 11,162,000
December	2017	\$ 8,646,000	\$ 19,808,000
January	2018	\$ 8,516,000	\$ 28,324,000
February	2018	\$ 6,642,000	\$ 34,966,000
March	2018	\$ 6,835,000	\$ 41,801,000
April	2018	\$ 18,760,000	\$ 60,561,000
May	2018	\$ 18,823,000	\$ 79,384,000
June	2018	\$ 6,911,000	\$ 86,295,000
July	2018	\$ 6,520,000	\$ 92,815,000
August	2018	\$ 4,801,000	\$ 97,616,000
September	2018	\$ 5,809,000	\$ 103,425,000
October	2018	\$ 6,487,000	\$ 109,912,000
November	2018	\$ 7,993,000	\$ 117,905,000
December	2018	\$ 5,766,000	\$ 123,671,000
January	2019	\$ 9,398,000	\$ 133,069,000
February	2019	\$ 13,421,000	\$ 146,490,000
March	2019	\$ 13,775,000	\$ 160,265,000
April	2019	\$ 14,144,000	\$ 174,409,000
May	2019	\$ 14,291,000	\$ 188,700,000
June	2019	\$ 14,443,000	\$ 203,143,000
July	2019	\$ 14,580,000	\$ 217,723,000
August	2019	\$ 14,245,000	\$ 231,968,000
September	2019	\$ 16,141,000	\$ 248,109,000
October	2019	\$ 16,130,000	\$ 264,239,000
November	2019	\$ 15,877,000	\$ 280,116,000
December	2019	\$ 14,272,000	\$ 294,388,000
January	2020	\$ 12,595,000	\$ 306,983,000
February	2020	\$ 10,531,000	\$ 317,514,000
March	2020	\$ 11,010,000	\$ 328,524,000
April	2020	\$ 13,518,000	\$ 342,042,000
May	2020	\$ 12,749,000	\$ 354,791,000
June	2020	\$ 12,965,000	\$ 367,756,000
July	2020	\$ 13,065,000	\$ 380,821,000
August	2020	\$ 12,752,000	\$ 393,573,000
September	2020	\$ 11,907,000	\$ 405,480,000
October	2020	\$ 12,022,000	\$ 417,502,000
November	2020	\$ 10,521,000	\$ 428,023,000
December	2020	\$ 6,570,000	\$ 434,593,000
January	2021	\$ 6,596,000	\$ 441,189,000
February	2021	\$ 7,582,000	\$ 448,771,000
March	2021	\$ 7,725,000	\$ 456,496,000
April	2021	\$ 8,824,000	\$ 465,320,000
May	2021	\$ 8,555,000	\$ 473,875,000

The Lane Construction Corporation		I-64 Southside Widening and High Rise Bridge, Phas	
90 Fieldstone Court		Contract ID Number: C00106692DB93	
Cheshire, CT 06410		Proposed Monthly Payment Schedule	
		Bid Date: September 8, 2017	
Month	Year	Monthly Draw	Cumulative Draw
June	2021	\$ 8,286,000	\$ 482,161,000
July	2021	\$ 6,858,000	\$ 489,019,000
August	2021	\$ -	\$ 489,019,000



EXHIBIT 6.3(a)
ADJUSTMENT FOR ASPHALT

SPECIAL PROVISION FOR
ASPHALT MATERIAL PRICE ADJUSTMENT for DESIGN-BUILD PROJECTS

December 14, 2016

All asphalt material listed in the attached "Master Listing of Asphalt Material Items Eligible for Price Adjustment" will be adjusted in accordance with the provisions as set forth herein. Other items will not be adjusted, except as otherwise specified in the contract. Any item added through a Work Order which contains Asphalt Material will not be subject to Price Adjustment unless specifically designated in the Work Order to be subject to Price Adjustment.

Each month, the Department will publish an average state-wide PG 64S-22 f.o.b. price per ton and an average PG 64E-22 f.o.b. price per ton developed from the average terminal prices provided to the Department from suppliers of asphalt cement to contractors doing work in Virginia. The Department will collect terminal prices from approximately 12 terminals each month. These prices will be received once each month from suppliers on or about the last weekday of the month. The high and low prices will be eliminated and the remaining values averaged to establish the average statewide price for the following month. That monthly state-wide average price will be posted on the Scheduling and Contracts Division website on or about the first weekday of the following month. In the event the average prices were to change 10 percent or more of the Base Index during the middle of the month, the Design Builder can submit a letter to the Department and the supplier that provides evidence of the difference in price. Upon receipt of the letter consideration will be given to extend additional adjustments as deemed necessary.

This monthly statewide average price will be the Base Index for all contracts on which Price Proposals are received during the calendar month of its posting and will be the Current Index for all asphalt placed during the calendar month of its posting. In the event an index changes radically from the apparent trend, as determined by the Engineer, the Department may establish an index which is determined to best reflect the trend.

The amount of adjustment applied will be based on the difference between the Price Proposal\Contract Base Index and the Current Index for the applicable calendar month during which the work is performed. Calculations must be done for each type of Asphalt Material put in place each month, whether the Current Index is higher or lower than the Base Index. The calculation for the adjustment shall be shown as follows:

$$A = Q \times \%AC \times IC$$

Where: A = Asphalt Adjustment Dollar Amount

Q = Quantity of Asphalt Material put in place during the month

%AC = % of Asphalt Cement in the Asphalt Material as specified in the Job Mix Formula

IC = Numeric Dollar Difference, either positive or negative, between the Base Index and Current Index

Example Calculation for Negative Price Adjustment (Credit back to VDOT):

7,500 Tons of SM-12.5A put in place during the month (Q), Job Mix is 6.1% Asphalt Cement for SM-12.5A (%AC), Base Index for the Contract is \$515/Ton, Current Index is \$500/Ton, Difference of - \$15.00/Ton (IC)

$$7,500 \text{ Tons SM-12.5A} \times 6.1\% \times -\$15.00/\text{Ton} = -\$6,862.50 \text{ Adjustment Amount}$$

Example Calculation for Positive Price Adjustment (Paid to the Design-Builder):

10,000 Tons of BM-25.0A put in place during the month (Q), Job Mix is 5.2% Asphalt Cement for BM-25.0A (%AC), Base Index for the Contract is \$515/Ton, Current Index is \$560/Ton, Difference of + \$45.00/Ton (IC)

$$10,000 \text{ Tons BM-25.0A} \times 5.2\% \times \$45.00/\text{Ton} = +\$23,400.00 \text{ Adjustment Amount}$$

Adjustment of any asphalt material item designated as a price adjustment item which does not contain PG 64-22, except PG 76-22 or PG 70-28, will be based on the indexes for PG 64-22. The quantity of asphalt cement for asphalt concrete pavement to which adjustment will be applied will be the quantity based on the percent of asphalt cement shown on the appropriate approved job mix formula.

The quantity of asphalt emulsion for surface treatments to which adjustment will be applied will be the quantity based on 65 percent residual asphalt.

Price adjustment will be shown as a separate entry on the monthly application of payment for work packages completed; however, such adjustment will not be included in the total cost of the work for progress determination or for extension of contract time. Items the Design-Builder claims in its application of payment for asphalt adjustments must include supporting calculations certified by the Quality Assurance Manager (QAM). These calculations must be completed relative to the calendar month under which the work was performed and shall be submitted for either positive or negative adjustment.

Any apparent attempt to unbalance bids in favor of items subject to price adjustment or failure to submit required cost and price data as noted hereinbefore may result in rejection of items for asphalt adjustment.

**VIRGINIA DEPARTMENT OF TRANSPORTATION
MASTER LISTING OF
ASPHALT MATERIAL ITEMS ELIGIBLE FOR PRICE ADJUSTMENT
(10-27-09)**

ITEM	DESCRIPTION	UNITS	SPECIFICATION
10062	Asphalt-Stab. Open-Graded Material	Ton	313
10416	Liquid Asphalt	Gal	311 312
10420	Blotted Seal Coat Ty. B	Sy	ATTD
10422	Blotted Seal Coat Ty. C	Sy	ATTD
10423	Blotted Seal Coat Ty. C-1	Sy	ATTD
10424	Blotted Seal Coat Ty. D	Sy	ATTD
10598	Ns Asphalt Concrete	Ton	315
10606	Asphalt Concrete Ty. SM-9.5	Ton	315
10607	Asphalt Concrete Ty. SM-12.5A	Ton	315
10608	Asphalt Concrete Ty. SM-12.5D	Ton	315
10609	Asphalt Concrete Ty. SM-12.5E (76-22)	Ton	315
10610	Asphalt Concrete Ty. IM-19.0A	Ton	315
10611	Asphalt Concrete Ty. IM-19.0D	Ton	315
10612	Asphalt Conc. Base Cr. Ty. BM-25.0	Ton	315
10613	Asphalt Concrete Ty. BM-37.5	Ton	315
10635	Asphalt Concrete Ty. SM-9.5A	Ton	315
10636	Asphalt Concrete Ty. SM-9.5D	Ton	315
10637	Asphalt Concrete Ty. SM-9.5E (76-22)	Ton	315
10639	Asphalt Concrete Ty. SM-19.0	Ton	315
10642	Asphalt Concrete Ty. BM-25.0A	Ton	315
10643	Asphalt Concrete Ty. BM-25.0D	Ton	315
10650	Stone Matrix Asphalt SMA-9.5(70-22)	Ton	317
10651	Stone Matrix Asphalt SMA-9.5(76-22)	Ton	317
10652	Stone Matrix Asphalt SMA-12.5(70-22)	Ton	317
10653	Stone Matrix Asphalt SMA-12.5(76-22)	Ton	317
10654	Stone Matrix Asphalt SMA-19.0(70-22)	Ton	317
10655	Stone Matrix Asphalt SMA-19.0(76-22)	Ton	317
10701	Liquid Asphalt Coating	Sy	ATTD
12505	Asphalt Concrete Curb Backup Material	Ton	315
13240	Asphalt Concrete Sidewalk	Ton	504
16110	Emul. Asph. Slurry Seal Type A	Sy	ATTD
16120	Emul. Asph. Slurry Seal Type B	Sy	ATTD
16130	Emul. Asph. Slurry Seal Type C	Sy	ATTD
16144	Latex Mod. Emul. Treat. Type B	Ton	ATTD
16145	Latex Mod. Emul. Treat. Type C	Ton	ATTD
16146	Latex Mod. Emul. Treat. Rutfilling	Ton	ATTD
16161	Modified Single Seal	Sy	ATTD
16162	Modified Double Seal	Sy	ATTD
16249	Nontracking Tack Coat	Gal.	ATTD

16250	Liquid Asphalt Matl. CMS-2 (Mod)	Gal	ATTD
16251	Liquid Asphalt Matl. CMS-2	Gal	ATTD
16252	Liquid Asphalt Matl. CRS-2	Gal	ATTD
16253	Liquid Asphalt Matl. CRS-2H	Gal.	ATTD.
16254	Liquid Asphalt Matl. RC-250	Gal	ATTD
16256	Liquid Asphalt Matl. RC-800	Gal	ATTD
16257	Ns Liquid Asphalt Matl.	Gal	ATTD
16260	Liquid Asphalt Matl. CRS-2L	Gal	ATTD
16325	NS Asphalt Concrete	Ton	N/A
16330	Asphalt Concrete Ty. SM-9.0A	Ton	315
16335	Asphalt Concrete Ty. SM-9.5A	Ton	315
16337	Asph. Conc. Ty. SM-9.5ASL (Spot Level)	Ton	315
16340	Asphalt Concrete Ty. SM-9.5D	Ton	315
16342	Asph. Conc. Ty. SM-9.5DSL (Spot Level)	Ton	315
16345	Asphalt Concrete Ty. SM-9.5E (76-22)	Ton	315
16350	Asphalt Concrete Ty. SM-12.5A	Ton	315
16352	Asph. Con. Ty. SM-12.5ASL (Spot Level)	Ton	315
16355	Asphalt Concrete Ty. SM-12.5D	Ton	315
16357	Asph. Con. Ty. SM-12.5DSL (Spot Level)	Ton	315
16360	Asphalt Concrete Ty. SM-12.5E (76-22)	Ton	315
16365	Asphalt Concrete Ty. IM-19.0A	Ton	315
16370	Asphalt Concrete Ty. IM-19.0D	Ton	315
16373	Asphalt Concrete Ty. IM-19.0A (T)	Ton	315
16374	Asphalt Concrete Ty. IM-19.0D (T)	Ton	315
16377	Asphalt Concrete Ty. BM-37.5	Ton	315
16379	Asphalt Concrete Ty. IM-19.0T	Ton	315
16390	Asphalt Concrete Ty. BM-25.0A	Ton	315
16392	Asphalt Concrete Ty. BM-25.0D	Ton	315
16395	Asphalt Concrete Ty. BM-25.0A (T)	Ton	315
16397	Asphalt Concrete Ty. BM-25.0D (T)	Ton	315
16400	Stone Matrix Asphalt SMA-9.5(70-22)	Ton	ATTD
16401	Stone Matrix Asphalt SMA-9.5(76-22)	Ton	ATTD
16402	Stone Matrix Asphalt SMA-12.5(70-22)	Ton	ATTD
16403	Stone Matrix Asphalt SMA-12.5(76-22)	Ton	ATTD
16404	Stone Matrix Asphalt SMA-19.0(70-22)	Ton	ATTD
16405	Stone Matrix Asphalt SMA-19.0(76-22)	Ton	ATTD
16490	Hot Mix Asphalt Treatment	Ton	ATTD
16500	Surf.Preparation & Restoration Type I	Ton	ATTD
16502	Surf.Preparation & Restoration Type li	Ton	ATTD
16504	Surf.Preparation & Restoration Type lii	Ton	ATTD
67201	NS Asphalt Concrete Overlay	Ton	315
67210	NS Asphalt Concrete	Ton	315
68240	NS Asphalt Concrete	Ton	315

Exhibit 6.3(b)

Form C-16a
August 9, 2013

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
ASPHALT PRICE ADJUSTMENT (PG76-22 or PG 70-28)
DESIGN-BUILD PROJECTS**

INSTRUCTIONS - This form is to be completed and returned ONLY when asphalt concrete items containing PG 76-22 or PG 70-28 is being utilized on the project.

PROJECT NUMBER: 0064-131-811, P101, R201, C501, B662-B670, D637, D638

DISTRICT:

Bid Prices in this contract for items containing PG 76-22 or PG 70-28 asphalt cement were developed using an f.o.b.

price of \$ 522 ⁸⁶/₁₀₀ per IMPERIAL ton for PG 76-22 or PG 70-28. This quote is project specific.

Price quotes signed by each supplier from which the Design-Builder proposes to obtain PG 76-22 or PG 70-28 shall be maintained by the Design-Builder. These quotes shall be retained on site during the life of the Contract for review by the Engineer upon request.

DATE: September 8, 2017

SIGNATURE: 

LMB Constructors

(Firm or Corporation)

JV077

(Vendor No.)

**EXHIBIT 6.3 (c)
ADJUSTMENT FOR FUEL**

**VIRGINIA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION FOR
OPTIONAL ADJUSTMENT FOR FUEL
DESIGN-BUILD PROJECTS**

June 30, 2011
(Revised) November 5, 2012

In the event the Design-Builder elects to seek adjustment for fuel items designated in the Price Proposal/Contract as Price Adjustment Items such items will be subject to price adjustment as set forth herein. Other items will not be adjusted, except as otherwise specified in the contract.

The Design-Builder will submit their monthly application for payment associated with eligible work packages with an adjustment up or down as appropriate for cost changes in fuel used on specific items of work identified in this provision. A master listing of standard items eligible for fuel adjustment is provided by the Department on its website at the following link <http://www.virginiadot.org/business/resources/masteroptionalfuelitems.pdf>. The listing on the web site also includes the corresponding fuel factor for each item. The fuel usage factor for each item is considered inclusive of all fuel usage.

The amount of adjustment will be computed from the change in the indexes and the on-site fuel use as shown in the Department's master listing of eligible items.

In order to be eligible for fuel adjustment under this provision, the Design-Builder shall clearly identify in within the Schedule of Values those pay items and the associated quantities it chooses to have fuel adjustment applied to in its work packages. Items the Design-Builder claims in its application of payment for fuel adjustments must be properly designated in order to be considered for adjustment. Items not properly designated or left out of the Design-Builder's Schedule of Values will automatically not be considered for adjustment.

The monthly index price to be used in the administration of this provision will be calculated by the Department from the Diesel fuel prices published by the U. S. Department of Energy, Energy Information Administration on highway diesel prices, for the Lower Atlantic region. The monthly index price will be the price for diesel fuel calculated by averaging each of the weekly posted prices for that particular month.

For the purposes of this provision, the base index price will be calculated using the data from the month preceding the receipt of bids. The base index price will be posted by the Department at the beginning of the month for all bids received during that month.

The current index price will be posted by the Department and will be calculated using the data from the month preceding the particular estimate being vouchered for payment.

The current monthly quantity for eligible items of work selected by the Design-Builder for fuel adjustment in its work packages will be multiplied by the appropriate fuel factor to determine the gallons of fuel to be cost adjusted. The amount of adjustment per gallon will be the net difference between the current index price and the base index price. Computation for adjustment will be made as follows:

$$S = (E - B) QF$$

Where; S = Monetary amount of the adjustment (plus or minus)
B = Base index price

E = Current index price
Q = Quantity of individual units of work
F = Appropriate fuel factor

Adjustments will not be made for work performed beyond the original contract time limit unless the original time limit has been changed by an executed Work Order.

If new pay items are added to this contract by Work Order and they are listed in the Department's master listing of eligible items, the Work Order must indicate which of these individual items will be fuel adjusted; otherwise, those items will not be fuel adjusted. If applicable, designating which new pay items will be added for fuel adjustment must be determined during development of the Work Order and clearly shown on the Work Order form. The Base Index price on any new eligible pay items added by Work Order will be the Base Index price posted for the month in which bids were received for that particular project. The Current Index price for any new eligible pay items added by Work Order will be the Index price posted for the month preceding the estimate on which the Work Order is paid.

When quantities differ between the last monthly application of payment prepared upon final acceptance and the final application of payment, adjustment will be made using the appropriate current index for the period in which that specific item of work was last performed.

In the event any of the base fuel prices in this contract increase more than 100 percent (i.e. fuel prices double), the Department will review each affected item of work and give the Design-Builder written notice if work is to stop on any affected item of work. The Department reserves the right to reduce, eliminate or renegotiate the price for remaining portions of affected items of work.

Any amounts resulting from fuel adjustment will not be included in the total cost of work for determination of progress or for extension of contract time.

I elect to use this provision

I elect not to use this provision

Date: September 8, 2017

Signature: 

Design-builder: LMB Constructors

Vendor No.: JV077



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
PROPOSAL GUARANTY

KNOW ALL MEN BY THESE PRESENTS, THAT WE LMB Constructors As principal, and Liberty Mutual Insurance Company Surety, are held and firmly bound unto the Commonwealth of Virginia as obligee, in the amount of FIVE PERCENT OF THE DOLLAR VALUE OF THE BID, lawful money of the United States of America, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally and firmly by these presents.

SIGNED, sealed and dated this 29th Day of August, 20 17

WHEREAS, the above said principal is herewith submitting its proposal for:

PROJECT NUMBER: 0064-131-811,P101,R201,C501,B662-B670,D637,D638
I-64 High Rise Bridge (a.k.a. I-64 Southside Widening) Phase I (UPC 106692)

NOW, THEREFORE, the condition of the above obligee is such, that if the aforesaid principal shall be awarded the contract upon said proposal and shall within the time specified in the Specifications after the notice of such award enter into a contract and give bond for the faithful performance of the contract, then this obligation shall be null and void; otherwise to remain in full force and effect and the principal and surety will pay unto the obligee the difference in money between the amount of the bid of the said principal and the amount for which the obligee may legally contract with another party to perform the said work if the latter amount be in excess of the former; but in no event shall the liability exceed the penal sum hereof.

LMB Constructors

(Principal*)
By: [Signature]
(Officer, Partner or Owner) (Seal)

Liberty Mutual Insurance Company

(Surety Company)
By: [Signature]
Sandra Diaz, (Attorney-in-Fact**) (Seal)

Kirk D. Junco
(Principal*)
By: _____
(Officer, Partner or Owner) (Seal)

175 Berkeley Street, Boston, MA 02116
(Address)
By: _____
(Surety Company)

(Principal*)
By: _____
(Officer, Partner or Owner) (Seal)

(Attorney-in-Fact**) (Seal)
By: _____
(Address)

*Note: If the principal is a *joint venture*, each party thereof must be named and execution made by same hereon. If there is more than one surety to the bid bond, each surety must be named and execution shall be made by same hereon.

Electronic Bid Only: In lieu of completing the above section of the Contract Performance Bond, the Principal shall file an Electronic Bid Bond when bidding electronically. By signing below the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the Commonwealth of Virginia under the same conditions of the bid bond as shown above.

Electronic Bid Bond ID# _____ Company/Bidder Name _____ Signature and Title _____

**Attach copy of Power of Attorney

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 7820058

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company West American Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Aklima Noorhassan; Cynthia Farrell; Debra A. Deming; Edward Reilly; Frances Rodriguez; Francesca Kazmierczak; Jennifer L. Jakaitis; Nancy Schnee; Peter Healy; Sandra Diaz; Susan A. Welsh; Valorie Spates; Vivian Carti

all of the city of New York, state of NY each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 28th day of June, 2017.



The Ohio Casualty Insurance Company
Liberty Mutual Insurance Company
West American Insurance Company

By: David M. Carey
David M. Carey, Assistant Secretary

STATE OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 28th day of June, 2017, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2021
Member, Pennsylvania Association of Notaries

By: Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS – Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 29th day of August, 2017.



By: Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantee.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.



90 Fieldstone Court
 Cheshire, CT 06410-1212
 203-235-3351
 203-237-4280 Fax
 www.laneconstruct.com

Resolution unanimously approved by the Board of Directors of The Lane Construction Corporation effective January 1, 2017:

VOTED: That effective January 1, 2017, rescinding all previous authorizations, the following be and hereby are authorized to sign proposals and bid bonds on behalf of this Corporation:

- Robert E. Alger, President & Chief Executive Officer*
- Donald P. Dobbs, Executive Vice President Administration & Secretary*
- Mark J. Tomkalski, Executive Vice President & Chief Financial Officer*
- Kirk D Junco, Chief Operating Officer & Executive Vice President*
- David F. Benton, Executive Vice President Operational Services*
- Michael M. Cote, Executive Vice President & Chief Development Officer*
- Jay S. Cruickshank, Executive Vice President & General Counsel*
- Giuseppe Quarta, Executive Vice President*
- Dan A. Haynes, Vice President, Legal*
- Farid K. Hamad, Senior Vice President & Assistant Secretary*
- Joseph P. Lark, Senior Vice President & Assistant Secretary*
- David J. Rankin, Senior Vice President & Assistant Secretary*
- Mark A. Schiller, Senior Vice President & Assistant Secretary*
- Vincent J. Caiola, Vice President, Treasurer & Assistant Secretary*
- Thomas R. Larson, Vice President Engineering*
- Richard A. Bean, Senior District Manager*
- D. Kent Burris, Senior District Manager*
- Michael C. Cuilik, Senior District Manager*
- George A. Hassfurter, Senior District Manager*
- Michael P. Holt, Senior District Manager*
- James O. Hughes, Senior District Manager*
- Rodney P. Lane, Senior District Manager*
- Dennis A. Luzier, Senior District Manager*
- Richard A. McDonough, Senior District Manager*
- Dennis B. O'Connor, Senior District Manager*
- Dyelan J. Phillips, Senior District Manager*
- Brian West, Senior District Manager*
- Louis S. D'Amico, General Manager NY Region*
- Dennis P. Bahls, District Manager*
- Paul K. Barry, District Manager*
- Kenneth P. Cates, District Manager*
- Chad M. Curran, District Manager*
- Christopher E. DuBois, District Manager*
- Gary F. Jerabek, District Manager*
- Kerry D. Kennedy, District Manager*
- Thomas C. Meador, District Manager*
- Jason P. McLearn, District Manager*
- Kenneth K. Prince, District Manager*
- Brad A. Regner, District Manager*
- John F. Roddy, District Manager*
- James S. Seybert, District Manager*
- Jan A. Sherman, District Manager*
- Jeffrey P. Siddens, District Manager*
- David M. Horton, Assistant District Manager*
- Eric G. Ritchie, Assistant District Manager*
- Ryan C. Terry, Assistant District Manager*
- Matthew W. Wright, Assistant District Manager*
- David W. Grey, Senior National Pursuit Manager*
- Scott A. Leach, Director, Quality*
- Timothy R. Kessler, Chief Estimator*
- John F. Rauer, Jr., Senior Plant Manager*
- Thomas L. Barrack, Jr., Plant Manager*
- Timothy C. Gaddy, Plant Manager*
- Lonnie C. Minson, Operations Manager - Plants*
- Joseph J. Spring, Plant Manager*

I hereby certify that the above is a true copy of the Resolution unanimously approved by the Board of Directors of The Lane Construction Corporation effective January 1, 2017, and that the above vote has not been rescinded and stands in full force and effect as of this date.

August 29, 2017
 Date


 Secretary, THE LANE CONSTRUCTION CORPORATION

State of Connecticut
 County of New Haven

August 29, 2017
 Date

Personally appeared before me, Donald P. Dobbs, Secretary, and made oath that the above is a true copy of the December 20, 2016 meeting minutes of the Board of Directors of The Lane Construction Corporation.


 Patricia A. Delekta, Notary Public
 My Commission Expires July 31, 2019



**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION**

PROJECT: I-64 Southside Widening and High Rise Bridge, Phase I

FHWA:

This form must be completed, signed and returned with bid; and failure to do so may result in the rejection of your bid. **THE CONTRACTOR SHALL AFFIRM THE FOLLOWING STATEMENT EITHER BY SIGNING THE AFFIDAVIT AND HAVING IT NOTARIZED OR BY SIGNING THE UNSWORN DECLARATION UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE UNITED STATES. A SEPARATE FORM MUST BE SUBMITTED BY EACH PRINCIPAL OF A JOINT VENTURE BID.**

STATEMENT. In preparation and submission of this bid, I, the firm, corporation or officers, agents or employees thereof did not, either directly or indirectly, enter into any combination or arrangement with any persons, firm or corporation or enter into any agreement, participate in any collusion, or otherwise take any action in the restraint of free, competitive bidding in violation of the Sherman Act (15 U.S.C. Section 1) or Article 1.1 or Chapter 12 of Title 18.2 (Virginia Governmental Frauds Act), Sections 59.1-9.1 through 59.1-9.17 or Sections 59.1-68.6 through 59.1-68.8 of the Code of Virginia.

AFFIDAVIT

The undersigned is duly authorized by the bidder to make the foregoing statement to be filed with bids submitted on behalf of the bidder for contracts to be let by the Commonwealth Transportation Board.

Signed at Fairfax County, VA, this 8th day of September, 20 17
County (City), STATE

LMB Constructors (Name of Firm) By: [Signature] Senior District Manager
(Signature) Title (print)

STATE of Virginia COUNTY (CITY) of Fairfax

To-wit:

I Mary Shoemaker, a Notary Public in and for the State and County(City) aforesaid, hereby certify that this day Richard McDonough

personally appeared before me and made oath that he is duly authorized to make the above statements and that such statements are true and correct.

Subscribed and sworn to before me this 8th day of September, 20 17

[Signature] My Commission expires 4/30/2020
Notary Public

**OR
UNSWORN DECLARATION**

The undersigned is duly authorized by the bidder to make the foregoing statement to be filed with bids submitted on behalf of the bidder for contracts to be let by the Commonwealth Transportation Board.

Signed at _____, this _____ day of _____, 20 _____
County (City), STATE

By: _____
(Signature) Title (print)



**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
AFFIDAVIT**

PROJECT: I-64 Southside Widening and High Rise Bridge, Phase I

FHWA:

This form must be completed, signed, notarized and returned with bid; and failure to do so, may result in the rejection of your bid. A separate form must be submitted by each principal of a joint venture bid.

1. I, the firm, corporation or officers, agents or employees thereof have neither directly nor indirectly entered into any combination or arrangement with any person, firm or corporation or entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with such contract, the effect of which is to prevent competition or increase the cost of construction or maintenance of roads or bridges.

During the preceding twelve months, I (we) have been a member of the following Highway Contractor's Associations, as defined in Section 33.1-336 of the Code of Virginia (1970). (If none, so state).

NAME	Location of Principal Office
<u>VTCA</u>	<u>Richmond, VA</u>
<u>ARTBA</u>	<u>Washington, DC</u>
<u>AGC of American</u>	<u>Washington, DC</u>

2. I (we) have , have not , participated in a previous contract or subcontract subject to the equal opportunity clause, as required by Executive Orders 10925, 11114, or 11246, and that I/We have , have not , filed with the joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

Note: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor [41 CFR 60-1.7(b)(1)], and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally only contract or subcontracts of \$10,000 or under are exempt.)

Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note that 41 CFR 60-1.7(b) (1) prevents the award of contract and subcontract unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

(Continued)

ORDER NO.:
CONTRACT ID. NO.:

Form C-105
page 2

3. The bidder certifies to the best of its knowledge and belief, that it and its principals:
- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency;
 - (b) Have not within a three year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offence in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated above; and
 - (d) Where the bidders is unable to certify to any of the statements in this certification, the bidder shall show an explanation below.

Explanations will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any explanation noted, indicate below to whom it applies, initiating agency, and dates of action. Providing false information may result in federal criminal prosecution or administration sanctions. The bidder shall provide immediate written notice to the Department if at any time the bidder learns that its certification was erroneous when submitted or has become erroneous by reason of change circumstances.

The undersigned is duly authorized by the bidder to make the foregoing statements to be filed with bids submitted on behalf of the bidder for contracts to be let by the Commonwealth Transportation Board.

Signed at Fairfax, Virginia , this 8th day of September , 20 17
County (City), STATE

LMB Constructors By: [Signature] Senior District Manager
(Name of Firm) (Signature) Title (print)

STATE of Virginia COUNTY (CITY) of Fairfax

To-wit:

I Mary Shoemaker , a Notary Public in and for the State and County(City) aforesaid, hereby certify that this day Richard McDonough

personally appeared before me and made oath that he is duly authorized to make the above statements and that such statements are true and correct.

Subscribed and sworn to before me this 8th day of September , 20 17

[Signature] My Commission expires 4/30/2020
Notary Public

