

CME Project Number: 63703CT.1

Date : 5/3/17

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**STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
COST ESTIMATE  
SEMI-FINAL DESIGN SUBMISSION**

Project Title: Relocation of I-91 NB Interchange 29 and Widening of I-91 and Route 15 NB to I-84 EB  
I-91/US 5/Route 5 in City of Hartford/Town of East Hartford

Federal Aid Project Number: (CN)1063(143)

State Project Number: 0063-0703

Project Limits: Station 102+00 to 264+50

City / Town: Hartford/  
East Harford

	Estimated Cost Summary	Amount
	STRUCTURE TOTAL	\$ 83,532,000
	ROADWAY TOTAL	\$ 22,186,655
	DRAINAGE	\$ 2,899,340
	CONSTRUCTION STAGING/PHASING	\$ 4,135,465
	MAINTENANCE AND PROTECTION OF TRAFFIC (MPT)	\$ 5,764,627
	SIGNING AND PAVEMENT MARKING (SPM)	\$ 1,406,454
	(NOT INCLUDING CTDOT IMS PLAN ITEMS) IMS TOTAL	\$ 127,936
	ENVIRONMENTAL TOTAL	\$ 1,400,000
	<b>TOTAL ITEMS =</b>	<b>\$ 121,452,478</b>

Item No.	Item Description	Unit	%	Total Items Cost	Amount
0201001	CLEARING AND GRUBBING (% OF TOTAL ITEMS)	L.S.	1.0%	\$ 121,452,477.96	\$1,214,525
0971001	M & P OF TRAFFIC (% OF TOTAL ITEMS)	L.S.	3%	\$ 121,452,477.96	\$3,643,574
0975002	MOBILIZATION AND PROJECT CLOSEOUT (% OF TOTAL ITEMS)	L.S.	10%	\$ 121,452,477.96	\$12,145,248
0980001A	CONSTRUCTION STAKING (% OF TOTAL ITEMS)	L.S.	1%	\$ 121,452,477.96	\$1,214,525

**LUMP SUM ITEMS = \$18,217,872**

MINOR ITEMS (BASED ON % OF TOTAL ITEMS + LUMP SUM ITEMS)	10%	\$13,967,040
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BASE ESTIMATE = TOTAL ITEMS + LUMP SUM ITEMS + MINOR ITEMS

**BASE ESTIMATE = \$153,637,390**

INCIDENTALS (% OF BASE ESTIMATE)	10%	\$15,363,739
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CONTINGENCIES (% OF BASE ESTIMATE)	15%	\$23,045,608
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**INCIDENTALS & CONTINGENCIES = 38,409,347**

UTILITY (CONSTRUCTION) 5% BASE ESTIMATE	\$	7,690,000
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CSOR RAILROAD FORCE ACCOUNT	\$	5,150,000
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3.5% INFLATION FOR 3.25 YEARS (from est. date to midpoint of construction=Subtotal\*0.035\*3.25)      **INFLATION = \$22,738,000**

**TOTAL SEMI FINAL DESIGN PROJECT COST = \$227,624,737**

<b>SAY :</b>	<b>\$228,000,000</b>
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By: CLR      Date: 5/3/2017

Checked By: RPT      Date: 5/3/2017

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**STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
COST ESTIMATE  
ROADWAY ITEMS**

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Project Title: Relocation of I-91 NB Interchange 29 and Widening of I-91 and Route 15 NB to I-84 EB  
I-91/US 5/Route 5 in City of Hartford/Town of East Hartford

Federal Aid Project Number: (CN)1063(143)

State Project Number: 0063-0703

Project Limits: Station 102+00 to 264+50

City / Town: Hartford/  
East Harford

Item No.	Item Description	Unit	Quantity			Unit Price	Amount
			Hwy	Bridge	Total		
0202000	EARTH EXCAVATION	C.Y.	48500		48500	\$ 15.00	\$ 727,500
0202452A	TEST PIT	EA.	50		50	\$ 680.00	\$ 34,000
0202501	CUT CONCRETE PAVEMENT	L.F.	1100		1100	\$ 6.00	\$ 6,600
0202502	REMOVAL OF CONCRETE PAVEMENT	S.Y.	8900		8900	\$ 12.00	\$ 106,800
0202522	REMOVAL OF BITUMINOUS TYPE PAVEMENT	S.Y.	12000		12000	\$ 5.00	\$ 60,000
0202529	CUT BITUMINOUS CONCRETE PAVEMENT	L.F.	36000		36000	\$ 1.50	\$ 54,000
0209001	FORMATION OF SUBGRADE	S.Y.	99000		99000	\$ 1.10	\$ 108,900
0212000	SUBBASE	C.Y.	31000		31000	\$ 26.00	\$ 806,000
0213100	GRANULAR FILL	C.Y.	20000		20000	\$ 35.00	\$ 700,000
0304002	PROCESSED AGGREGATE BASE	C.Y.	850		850	\$ 48.00	\$ 40,800
0401000	CONCRETE FOR PAVEMENT	C.Y.	2450		2450	\$ 500.00	\$ 1,225,000
0401101	MAT REINFORCEMENT FOR CONCRETE PAVEMENT	S.Y.	9700		9700	\$ 5.00	\$ 48,500
0401153	CONCRETE PAVEMENT REPAIR (FULL DEPTH)	C.Y.	250		250	\$ 1,100.00	\$ 275,000
0401201	TRANSVERSE CONTRACTION JOINT	L.F.	2300		2300	\$ 38.00	\$ 87,400
0401202	TRANSVERSE EXPANSION JOINT	L.F.	260		260	\$ 35.00	\$ 9,100
0401301	LONGITUDINAL JOINT SUPPORT	EA.	1750		1750	\$ 50.00	\$ 87,500
0401441	1/2" PREFORMED EXPANSION JOINT FILLER	S.F.	100		100	\$ 4.00	\$ 400
0401442	3/4" PREFORMED EXPANSION JOINT FILLER	S.F.	17		17	\$ 10.00	\$ 170
0406159	PMA S0.5	TON	41000		41000	\$ 95.00	\$ 3,895,000
0406160	PMA S1	TON	31000		31000	\$ 140.00	\$ 4,340,000
0406170	HMA S1	TON	1400		1400	\$ 110.00	\$ 154,000
0406171	HMA S0.5	TON	1000		1000	\$ 130.00	\$ 130,000
0406173	HMA S0.25	TON	4900		4900	\$ 110.00	\$ 539,000
0406236	MATERIAL FOR TACK COAT	GAL.	75000		75000	\$ 3.00	\$ 225,000
0406268	MILLING OF HMA (OVER 4" - 8")	S.Y.	45200		45200	\$ 5.00	\$ 226,000
0406275A	FINE MILLING OF BITUMINOUS CONCRETE (0"-4")	S.Y.	38000		38000	\$ 2.50	\$ 95,000
0406287A	RUMBLE STRIPS - AUTOMATED	L.F.	41000		41000	\$ 0.25	\$ 10,250
0406288A	RUMBLE STRIPS - MANUAL	L.F.	320		320	\$ 4.00	\$ 1,280
0406600	MATERIAL TRANSFER VEHICLE	TON	18000		18000	\$ 1.60	\$ 28,800
0406999A	ASPHALT ADJUSTMENT COST (ESTIMATED COST)	EST.	1		1	\$ 20,000.00	\$ 20,000
0504009	RAILROAD PROTECTION	EST.	1		1	\$ 250,000.00	\$ 250,000
0504010	RAILROAD TRACK WORK	EST.	1		1	\$ 250,000.00	\$ 250,000
0707200A	GEOGRID	S.Y.	12500		12500	\$ 3.50	\$ 43,750
0813012	5" X 18" GRANITE STONE CURBING	L.F.	340		340	\$ 33.00	\$ 11,220
0813013	5" X 18" CURVED GRANITE STONE CURBING	L.F.	120		120	\$ 52.00	\$ 6,240
0814002	RESET GRANITE STONE CURBING	L.F.	980		980	\$ 40.00	\$ 39,200
0815200	BITUMINOUS CONCRETE PARK CURBING	L.F.	15000		15000	\$ 3.40	\$ 51,000
0821163	CONCRETE CAP	C.Y.	550		550	\$ 810.00	\$ 445,500
0821502	F- SHAPE PRECAST CONCRETE BARRIER CURB (21"X45")	L.F.	26000		26000	\$ 120.00	\$ 3,120,000
0821513	VERTICAL FACE PRECAST CONCRETE BARRIER (21" X 54")	L.F.	3500		3500	\$ 220.00	\$ 770,000
0824052	REMOVE EXISTING CONCRETE BARRIER CURB	L.F.	29000		29000	\$ 30.00	\$ 870,000
0910170	METAL BEAM RAIL (TYPE R-B 350)	L.F.	13155		13155	\$ 20.00	\$ 263,100
0910187	R-B 350 BRIDGE ATTACHMENT TRAILING END 10 GA.	EA.	10		10	\$ 650.00	\$ 6,500
0910188	R-B 350 BRIDGE ATTACHMENT-VERTICAL SHAPED PARAPET 10 GA	EA.	4		4	\$ 2,800.00	\$ 11,200
0910190	CONVERT METAL BEAM RAIL (TYPE R-I) TO (TYPE R-B 350)	L.F.	75		75	\$ 23.00	\$ 1,725
0910891	R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET 10 GA.	EA.	9		9	\$ 3,250.00	\$ 29,250
0911925	R-B END ANCHORAGE (TYPE I - 10 GA)	EA.	8		8	\$ 1,200.00	\$ 9,600

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ROADWAY ITEMS**

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Project Title: Relocation of I-91 NB Interchange 29 and Widening of I-91 and Route 15 NB to I-84 EB  
I-91/US 5/Route 5 in City of Hartford/Town of East Hartford

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Item No.	Item Description	Unit	Quantity			Unit Price	Amount
			Hwy	Bridge	Total		
0912503	REMOVE METAL BEAM RAIL	L.F.	13780		13780	\$ 4.00	\$ 55,120
0912518	REMOVE AND RESET METAL BEAM RAIL	L.F.	230		230	\$ 30.00	\$ 6,900
0916126	NOISE BARRIER WALL	S.F.	12600		12600	\$ 60.00	\$ 756,000
0921001	CONCRETE SIDEWALK	S.F.	3300		3300	\$ 14.00	\$ 46,200
0939001	SWEEPING FOR DUST CONTROL	HR.	2000		2000	\$ 14.00	\$ 28,000
0942001	CALCIUM CHLORIDE FOR DUST CONTROL	TON	75		75	\$ 450.00	\$ 33,750
0943001	WATER FOR DUST CONTROL	MGAL.	80		80	\$ 15.00	\$ 1,200
0944000	FURNISHING AND PLACING TOPSOIL	S.Y.	22000		22000	\$ 6.00	\$ 132,000
0950005	TURF ESTABLISHMENT	S.Y.	22000		22000	\$ 1.00	\$ 22,000
0969066A	CONSTRUCTION FIELD OFFICE, EXTRA LARGE	MO.	52		52	\$ 7,100.00	\$ 369,200
0971999	WRECKER SERVICE	HR.	5500		5500	\$ 60.00	\$ 330,000
1803066A	TYPE B IMPACT ATTENUATION SYSTEM (HIGH INCIDENT) - NON GATING	EA.	6		6	\$ 31,000.00	\$ 186,000
<b>ROADWAY ITEMS =</b>						<b>\$</b>	<b>22,186,655</b>

CME Project Number: 63703CT.1

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**STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
COST ESTIMATE  
STRUCTURE ITEMS**

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Project Title: Relocation of I-91 NB Interchange 29 and Widening of I-91 and Route 15 NB to I-84 EB  
I-91/US 5/Route 5 in City of Hartford/Town of East Hartford

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Item No.	Item Description	Unit	Quantity			Unit Price	Amount
			Hwy	Bridge	Total		
0503890	REMOVAL OF EXISTING BRIDGE (BRIDGE NO. 06000C)	L.S.		1	1	\$ 3,051,000.00	\$ 3,051,000
	REHABILITATION OF BRIDGE (BRIDGE NO. 02555)	L.S.		1	1	\$ 224,000.00	\$ 224,000
	REHABILITATION OF BRIDGE (BRIDGE NO. 03244)	L.S.		1	1	\$ 119,000.00	\$ 119,000
	REHABILITATION OF BRIIDGE (BRIDGE NO. 00813)	L.S.		1	1	\$ 8,110,000.00	\$ 8,110,000
	REHABILITATION OF BRIDGE (BRIDGE NO. 03613)	L.S.		1	1	\$ 17,000.00	\$ 17,000
	REHABILITATION OF BRIDGE (BRIDGE NO. 01466)	L.S.		1	1	\$ 3,977,000.00	\$ 3,977,000
	REHABILITATION OF BRIDGE (BRIDGE NO. 00480)	L.S.		1	1	\$ 3,513,000.00	\$ 3,513,000
	REHABILITATION OF BRIDGE (BRIDGE NO. 06654)	L.S.		1	1	\$ 50,000.00	\$ 50,000
	REHABILITATION OF BRIDGE (BRIDGE NO. 05922)	L.S.		1	1	\$ 71,000.00	\$ 71,000
	REHABILITATION OF BRIDGE (BRIDGE NO. 06000A)	L.S.		1	1	\$ 18,820,000.00	\$ 18,820,000
	REHABILITATION OF BRIDGE (BRIDGE NO. 06000B)	L.S.		1	1	\$ 3,991,000.00	\$ 3,991,000
	REHABILITATION OF BRIDGE (BRIDGE NO. 06043A&B)	L.S.		1	1	\$ 3,003,000.00	\$ 3,003,000
	REHABILITATION OF BRIDGE (BRIDGE NO. 05796)	L.S.		1	1	\$ 1,993,000.00	\$ 1,993,000
					0		\$ -
	PROPOSED BRIDGE (BRIDGE NO. #####)	L.S.		1	1	\$ 23,993,000.00	\$ 23,993,000
					0		\$ -
0601651	RETAINING WALL ( SITE NO. 101)	L.S.		1	1	\$ 1,400,000.00	\$ 1,400,000
0601653	RETAINING WALL ( SITE NO. 103)	L.S.		1	1	\$ 4,005,000.00	\$ 4,005,000
0601654	RETAINING WALL ( SITE NO. 104)	L.S.		1	1	\$ 2,500,000.00	\$ 2,500,000
0601655	RETAINING WALL ( SITE NO. 105)	L.S.		1	1	\$ 401,000.00	\$ 401,000
0601656	RETAINING WALL ( SITE NO. 106)	L.S.		1	1	\$ 2,444,000.00	\$ 2,444,000
0601657	RETAINING WALL ( SITE NO. 107)	L.S.		1	1	\$ 1,850,000.00	\$ 1,850,000
					0		\$ -
	MODIFICATION TO EXISTING RETAINING WALL 103	L.S.		1	1	\$ 117,000.00	\$ 117,000
					0		\$ -
					0		\$ -
					0		\$ -
					0		\$ -
					0		\$ -

**STRUCTURE ITEMS = \$ 83,649,000**

CME Project Number: 63703CT.1

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**STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
COST ESTIMATE  
DRAINAGE ITEMS**

Project Title: Relocation of I-91 NB Interchange 29 and Widening of I-91 and Route 15 NB to I-84 EB  
I-91/US 5/Route 5 in City of Hartford/Town of East Hartford

Federal Aid Project Number: (CN)1063(143)

State Project Number: 0063-0703

Project Limits: Station 102+00 to 264+50

City / Town: Hartford/  
East Harford

Item No.	Item Description	Unit	Quantity			Unit Price	Amount
			Hwy	Bridge	Total		
0202000	EARTH EXCAVATION	C.Y.	3571		3571	\$ 20.00	\$ 71,420
0202501	CUT CONCRETE PAVEMENT	L.F.	691		691	\$ 7.00	\$ 4,837
0205001	TRENCH EXCAVATION 0'-4' DEEP	C.Y.	923		923	\$ 9.00	\$ 8,307
0205003	TRENCH EXCAVATION 0'-10' DEEP	C.Y.	12060		12060	\$ 10.00	\$ 120,600
0205005	TRENCH EXCAVATION 0'-15' DEEP	C.Y.	4078		4078	\$ 33.00	\$ 134,574
0205007	TRENCH EXCAVATION 0'- 20' DEEP	C.Y.	1170		1170	\$ 13.00	\$ 15,210
0207000	BORROW	C.Y.	2166		2166	\$ 21.00	\$ 45,486
0209001	FORMATION OF SUBGRADE	S.Y.	6428		6428	\$ 3.00	\$ 19,284
0210116A	STONE CHECK DAM	EA.	13		13	\$ 470.00	\$ 6,110
0211000	ANTI-TRACKING PAD	S.Y.	450		450	\$ 22.00	\$ 9,900
0213100	GRANULAR FILL	C.Y.	1552		1552	\$ 41.00	\$ 63,632
0219001	SEDIMENTATION CONTROL SYSTEM	L.F.	21600		21600	\$ 4.00	\$ 86,400
0219011	SEDIMENT CONTROL SYSTEM AT CATCH BASIN	EA.	2		2	\$ 145.00	\$ 290
0305001	PROCESSED AGGREGATE	C.Y.	2		2	\$ 85.00	\$ 170
0406010-2	BITUMINOUS CONCRETE, CLASS 2	TON	4		4	\$ 184.00	\$ 736
0507001	TYPE "C" CATCH BASIN	EA.	42		42	\$ 3,500.00	\$ 147,000
0507006	TYPE "C" CATCH BASIN TOP	EA.	1		1	\$ 1,300.00	\$ 1,300
0507021	TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE I	EA.	4		4	\$ 5,000.00	\$ 20,000
0507022	TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II	EA.	4		4	\$ 5,000.00	\$ 20,000
0507051	TYPE "C" CATCH BASIN OVER 10' DEEP	EA.	15		15	\$ 5,000.00	\$ 75,000
0507060	TYPE "C-M" CATCH BASIN DOUBLE GRATE TYPE II	EA.	5		5	\$ 5,000.00	\$ 25,000
0507071	TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE I OVER 10' DEEP	EA.	4		4	\$ 5,100.00	\$ 20,400
0507072	TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II OVER 10' DEEP	EA.	1		1	\$ 5,100.00	\$ 5,100
0507105	CONNECTION TO EXISTING MANHOLE AND/OR CATCH BASIN	EA.	5		5	\$ 2,000.00	\$ 10,000
0507167	TYPE "C-M" CATCH BASIN TOP	EA.	5		5	\$ 650.00	\$ 3,250
0507171A	HYDRODYNAMIC SEPARATOR (SITE NO. 1)	EA.	1		1	\$ 40,000.00	\$ 40,000
0507172A	HYDRODYNAMIC SEPARATOR (SITE NO. 2)	EA.	1		1	\$ 25,000.00	\$ 25,000
0507173A	HYDRODYNAMIC SEPARATOR (SITE NO. 3)	EA.	1		1	\$ 25,000.00	\$ 25,000
0507174A	HYDRODYNAMIC SEPARATOR (SITE NO. 4)	EA.	1		1	\$ 32,000.00	\$ 32,000
0507175A	HYDRODYNAMIC SEPARATOR (SITE NO. 5)	EA.	1		1	\$ 25,000.00	\$ 25,000
0507201	TYPE "C-L" CATCH BASIN	EA.	14		14	\$ 3,400.00	\$ 47,600
0507224	TYPE "C-L" CATCH BASIN TOP	EA.	1		1	\$ 800.00	\$ 800
0507251	TYPE "C-L" CATCH BASIN OVER 10' DEEP	EA.	1		1	\$ 5,200.00	\$ 5,200
0507425A	RAISE MANHOLE	EA.	1		1	\$ 1,000.00	\$ 1,000
0507449	TYPE "C-M" CATCH BASIN	EA.	61		61	\$ 4,600.00	\$ 280,600
0507450	TYPE "C-M" CATCH BASIN DOUBLE GRATE -TYPE I	EA.	3		3	\$ 5,200.00	\$ 15,600
0507452	TYPE "C-M " CATCH BASIN OVER 10' DEEP	EA.	29		29	\$ 9,400.00	\$ 272,600
0507462	TYPE "C-M" CATCH BASIN DOUBLE GRATE TYPE I OVER 10' DEEP	EA.	6		6	\$ 6,000.00	\$ 36,000
0507463	TYPE "C-M" CATCH BASIN DOUBLE GRATE TYPE II OVER 10' DEEP	EA.	1		1	\$ 6,000.00	\$ 6,000
0507601	MANHOLE	EA.	4		4	\$ 3,520.00	\$ 14,080
0507651	MANHOLE OVER 10' DEEP	EA.	1		1	\$ 6,525.00	\$ 6,525
0507652A	SPECIAL MANHOLE OVER 10' DEEP	EA.	3		3	\$ 10,000.00	\$ 30,000
0507685	MANHOLE - 6' DIAMETER	EA.	3		3	\$ 6,250.00	\$ 18,750
0507686	MANHOLE - 6' DIAMETER OVER 10' DEEP	EA.	3		3	\$ 8,000.00	\$ 24,000
0507793	REMOVE, STORE AND RESET CATCH BASIN TOP	EA.	7		7	\$ 500.00	\$ 3,500
0507999A	JUNCTION CHAMBER	EA.	1		1	\$ 25,500.00	\$ 25,500
0601000	CLASS "A" CONCRETE	C.Y.	50		50	\$ 1,000.00	\$ 50,000
0601994	PRECAST CONCRETE BLOCK	EA.	174		174	\$ 58.50	\$ 10,179

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Item No.	Item Description	Unit	Quantity			Unit Price	Amount
			Hwy	Bridge	Total		
0651001	BEDDING MATERIAL	C.Y.	748		748	\$ 44.00	\$ 32,912
0651011	12" R.C. PIPE	L.F.	917		917	\$ 65.00	\$ 59,605
0651012	15" R.C. PIPE	L.F.	5931		5931	\$ 63.00	\$ 373,653
0651013	18" R.C. PIPE	L.F.	2600		2600	\$ 60.00	\$ 156,000
0651015	24" R.C. PIPE	L.F.	432		432	\$ 130.00	\$ 56,222
0651017	30" R.C. PIPE	L.F.	637		637	\$ 65.00	\$ 41,376
0651017	36" R.C. PIPE	L.F.	164		164	\$ 65.00	\$ 10,660
0651052A	15" R.C. PIPE CLASS V	L.F.	92		92	\$ 85.00	\$ 7,820
0651053A	18" R.C. PIPE CLASS V	L.F.	96		96	\$ 85.00	\$ 8,160
0651270	CONCRETE PIPE CONNECTION	EA.	45		45	\$ 900.00	\$ 40,500
0651513A	15" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE	L.F.	126		126	\$ 65.00	\$ 8,190
0651514	24" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE	L.F.	145		145	\$ 120.00	\$ 17,407
0651650	12" PE PIPE	L.F.	232		232	\$ 40.00	\$ 9,280
0651652	18" PE PIPE	L.F.	164		164	\$ 45.00	\$ 7,380
0651686	12" POLYETHYLENE CULVERT END	EA.	1		1	\$ 500.00	\$ 500
0651687	18" POLYETHYLENE CULVERT END	EA.	1		1	\$ 800.00	\$ 800
0651694	24" POLYETHYLENE CULVERT END	EA.	1		1	\$ 1,000.00	\$ 1,000
0652016	24" R.C. CULVERT END	EA.	1		1	\$ 1,200.00	\$ 1,200
0703011	INTERMEDIATE RIPRAP	C.Y.	27		27	\$ 85.00	\$ 2,295
0703012	MODIFIED RIPRAP	C.Y.	240		240	\$ 66.00	\$ 15,840
0728030	NO.3 CRUSHED STONE	C.F.	19750		19750	\$ 2.00	\$ 39,500
0755010	GEOTEXTILE (SEPARATION - MEDIUM SURVIVABILITY)	S.Y.	553		553	\$ 3.00	\$ 1,659
0950039	EROSION CONTROL MATTING TYPE D	S.Y.	24610		24610	\$ 4.00	\$ 98,440
<b>DRAINAGE ITEMS =</b>						<b>\$</b>	<b>2,899,340</b>

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**STATE OF CONNECTICUT  
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CONSTRUCTION STAGING/PHASING ITEMS**

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City / Town: Hartford/  
East Hartford

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			Hwy	Bridge	Total		
0202000	EARTH EXCAVATION	C.Y.	1940		1940	\$21.89	\$ 42,467
0202529	CUT BITUMINOUS CONCRETE PAVEMENT	L.F.	5750		5750	\$1.83	\$ 10,523
0209001	FORMATION OF SUBGRADE	S.Y.	6200		6200	\$2.45	\$ 15,190
0210100	ANTI-TRACKING PAD	S.Y.	575		575	\$30.67	\$ 17,635
0304002	PROCESSED AGGREGATE BASE	C.Y.	1800		1800	\$45.11	\$ 81,198
0406170	HMA S1.0	TON	2200		2200	\$118.10	\$ 259,820
0406171	HMA S0.5	TON	1480		1480	\$122.86	\$ 181,833
0406173	HMA S0.25	TON	4200		4200	\$119.16	\$ 500,472
0406236	MATERIAL FOR TACK COAT	GAL.	4700		4700	\$5.75	\$ 27,025
0406286	MILLING FOR PAVEMENT TRANSITIONS	S.Y.	700		700	\$28.00	\$ 19,600
0406289A	REMOVAL OF RUMBLE STRIPS	L.F.	32250		32250	\$3.90	\$ 125,775
0507069	HEAVY DUTY TYPE C-L CB TOP	EA	9		9	\$1,065.00	\$ 9,585
0507099	HEAVY DUTY TYPE C CATCH BASIN TOP	EA	8		8	\$52.00	\$ 416
0507771	RESET CATCH BASIN	EA	25		25	\$931.09	\$ 23,277
0507801	CONVERT CATCH BASIN TO TYPE C CATCH BASIN	EA	3		3	\$1,450.00	\$ 4,350
0507821	CONVERT CATCH BASIN TO TYPE C-L CATCH BASIN	EA	7		7	\$1,503.13	\$ 10,522
0714050	TEMPORARY EARTH RETAINING SYSTEM	S.F.	34800		34800	\$11.21	\$ 390,108
0822001	TEMPORARY PRECAST CONCRETE BARRIER CURB	L.F.	22820		22820	\$26.37	\$ 601,763
0822002	RELOCATED TEMPORARY PRECAST CONCRETE BARRIER CURB	L.F.	82140		82140	\$4.77	\$ 391,808
0822005	TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)	L.F.	8400		8400	\$67.25	\$ 564,900
0822006	RELOCATED TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)	L.F.	15080		15080	\$16.67	\$ 251,384
0922001	BITUMINOUS CONCRETE SIDEWALK	S.Y.	350		350	\$56.93	\$ 19,926
942001	CALCIUM CHLORIDE FOR DUST CONTROL	TON	3		3	\$636.42	\$ 1,909
943001	WATER FOR DUST CONTROL	MGAL.	450		450	\$3.67	\$ 1,652
1205207	TYPE DE-7 DELINEATORS	EA	300		300	\$18.61	\$ 5,583
1205214	TYPE DE-7A DELINEATORS	EA	340		340	\$20.56	\$ 6,990
1807010	TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A MODULE 200LB.	EA	25		25	\$434.32	\$ 10,858
1807011	TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A MODULE 400LB.	EA	15		15	\$378.91	\$ 5,684
1807012	TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A MODULE 700LB.	EA	40		40	\$375.87	\$ 15,035
1807013	TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A MODULE 1400LB.	EA	70		70	\$378.91	\$ 26,524
1807014	TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A MODULE 2100LB.	EA	35		35	\$417.74	\$ 14,621
1807104	RELOCATION OF TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A MODULE 700 LB	EA	155		155	\$128.84	\$ 19,970
1807105	RELOCATION OF TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A MODULE 1400 LB	EA	264		264	\$112.80	\$ 29,779
1807106	RELOCATION OF TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A MODULE 2100 LB	EA	132		132	\$154.32	\$ 20,370
1807107	RELOCATION OF TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A MODULE 200 LB	EA	100		100	\$132.38	\$ 13,238
1807108	RELOCATION OF TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A MODULE 400 LB	EA	54		54	\$115.59	\$ 6,242
1806201A	TYPE D PORTABLE IMPACT ATTENUATION SYSTEM	HR	4252		4252	\$93.47	\$ 397,434
1807202	REPAIR OF TEMPORARY IMPACT ATTENUATION SYSTEM	EST	1		1	\$ 10,000.00	\$ 10,000
<b>CONSTRUCTION STAGING/PHASING ITEMS =</b>						<b>\$</b>	<b>4,135,465</b>

CME Project Number: 63703CT.1

Date : 5/3/17

**STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
COST ESTIMATE  
MPT ITEMS**

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Project Title: Relocation of I-91 NB Interchange 29 and Widening of I-91 and Route 15 NB to I-84 EB  
I-91/US 5/Route 5 in City of Hartford/Town of East Hartford

Federal Aid Project Number: (CN)1063(143)

State Project Number: 0063-0703

Project Limits: Station 102+00 to 264+50

City / Town: Hartford/  
East Harford

Item No.	Item Description	Unit	Quantity			Unit Price	Amount
			Hwy	Bridge	Total		
0970006	TRAFFICPERSON (MUNICIPAL POLICE OFFICER) (ESTIMATED COST)	EST.	1		1	\$2,277,600.00	\$ 2,277,600
0976002	BARRICADE WARNING LIGHTS - HIGH INTENSITY	DAY	50768		50768	\$1.00	\$ 50,768
0977001	TRAFFIC CONE	EA.	544		544	\$19.20	\$ 10,445
0978002	TRAFFIC DRUM	EA.	1188		1188	\$65.80	\$ 78,170
0979003	CONSTRUCTION BARRICADE TYPE III	EA.	26		26	\$137.00	\$ 3,562
0981100	42" TRAFFIC CONE	EA.	88		88	\$31.80	\$ 2,798
1130000	HIGH MOUNTED INTERNALLY ILLU- MINATED FLASHING ARROW	DAY	95		95	\$24.20	\$ 2,299
1131002A	REMOTE CONTROL CHANGEABLE MESSAGE SIGN	DAY	1849		1849	\$39.80	\$ 73,590
1206011	REMOVAL OF EXISTING OVERHEAD SIGNING	LS	1		1	\$50,000.00	\$ 50,000
1206023	REMOVAL AND RELOCATION OF EXISTING SIGNS	LS	1		1	\$10,000.00	\$ 10,000
1206025	REMOVAL AND RELOCATION OF EXISTING OVERHEAD SIGNS	LS	1		1	\$100,000.00	\$ 100,000
1209114	HOT-APPLIED PAINTED PAVEMENT MARKINGS 4" YELLOW	L.F.	172311		172311	\$0.20	\$ 34,462
1209124	HOT-APPLIED PAINTED PAVEMENT MARKINGS 4" WHITE	L.F.	259652		259652	\$0.20	\$ 51,930
1209126	HOT-APPLIED PAINTED PAVEMENT MARKINGS 6" WHITE	L.F.	53694		53694	\$0.20	\$ 10,739
1209128	HOT-APPLIED PAINTED PAVEMENT MARKINGS 8" WHITE	L.F.	61856		61856	\$0.20	\$ 12,371
1209129	HOT-APPLIED PAINTED PAVEMENT MARKINGS 12" WHITE	L.F.	11006		11006	\$1.20	\$ 13,207
1209131	HOT-APPLIED PAINTED LEGEND, ARROWS AND MARKINGS	S.F.	400		400	\$1.00	\$ 400
1216020	6" BLACK AGGREGATE COVER-UP RESIN PAVEMENT MARKINGS	L.F.	93725		93725	\$1.00	\$ 93,725
1216021	8" BLACK AGGREGATE COVER-UP RESIN PAVEMENT MARKINGS	L.F.	30675		30675	\$1.50	\$ 46,013
1216022	10" BLACK AGGREGATE COVER-UP RESIN PAVEMENT MARKINGS	L.F.	33968		33968	\$2.00	\$ 67,936
1216023	14" BLACK AGGREGATE COVER-UP RESIN PAVEMENT MARKINGS	L.F.	7549		7549	\$2.50	\$ 18,873
1220027	CONSTRUCTION SIGNS	S.F.	10138		10138	\$12.60	\$ 127,739
3000101	TRAFFICMEN (STATE POLICE OFFICERS)	LS	1		1	\$2,628,000.00	\$ 2,628,000
<b>MPT ITEMS = \$</b>							<b>5,764,627</b>



CME Project Number: 63703CT.1Date : 5/3/17

**STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
COST ESTIMATE  
SPM ITEMS**

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Project Title: Relocation of I-91 NB Interchange 29 and Widening of I-91 and Route 15 NB to I-84 EB  
I-91/US 5/Route 5 in City of Hartford/Town of East Hartford

Federal Aid Project Number: (CN)1063(143)

State Project Number: 0063-0703

Project Limits: Station 102+00 to 264+50City / Town: Hartford/  
East Harford

Item No.	Item Description	Unit	Quantity			Unit Price	Amount
			Hwy	Bridge	Total		
0406314A	80 MIL PAVEMENT MARKING GROOVE 5" WIDE	L.F.	61971		61971	\$0.40	\$ 24,788
0406315A	80 MIL PAVEMENT MARKING GROOVE 7" WIDE	L.F.	15015		15015	\$0.60	\$ 9,009
0406316A	80 MIL PAVEMENT MARKING GROOVE 9" WIDE	L.F.	14879		14879	\$0.80	\$ 11,903
0406317A	80 MIL PAVEMENT MARKING GROOVE 13" WIDE	L.F.	7487		7487	\$1.00	\$ 7,487
0952001A	SELECTIVE CLEARING AND THINNING	LS	1		1	\$8,118.80	\$ 8,119
1201804	4 CHORD TRUSS CANTILEVER SIGN STRUCTURE	EA.	2		2	\$52,472.00	\$ 104,944
1202239	OVERHEAD TRUSS SIGN SUPPORT FOUNDATION	EA.	12		12	\$59,517.00	\$ 714,204
1203109	SIDE MOUNTED SIGN FOUNDATION	EA.	15		15	\$3,324.00	\$ 49,860
1206011	REMOVAL OF EXISTING OVERHEAD SIGNING	LS	1		1	\$37,855.60	\$ 37,856
1206013	REMOVAL OF EXISTING SIGNING	LS	1		1	\$5,352.00	\$ 5,352
1206023A	REMOVAL AND RELOCATION OF EXISTING SIGNS	LS	1		1	\$7,072.40	\$ 7,072
1206025A	REMOVAL AND RELOCATION OF EXISTING OVERHEAD SIGNS	LS	1		1	\$65,341.00	\$ 65,341
1207034A	SIGN FACE - EXTRUDED ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING)	S.F.	7900		7900	\$25.00	\$ 197,500
1208931	SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING)	S.F.	6		6	\$36.60	\$ 220
1208932	SIGN FACE - SHEET ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING)	S.F.	1268		1268	\$35.00	\$ 44,380
1210101	4" WHITE EPOXY RESIN PAVEMENT MARKINGS	L.F.	34640		34640	\$0.20	\$ 6,928
1210102	4" YELLOW EPOXY RESIN PAVEMENT MARKINGS	L.F.	32267		32267	\$0.20	\$ 6,453
1210103	6" WHITE EPOXY RESIN PAVEMENT MARKINGS	L.F.	15015		15015	\$0.40	\$ 6,006
1210104	8" WHITE EPOXY RESIN PAVEMENT MARKINGS	L.F.	14879		14879	\$0.60	\$ 8,927
1210105	EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS AND LEGENDS	S.F.	1949		1949	\$2.80	\$ 5,457
1210106	12" WHITE EPOXY RESIN PAVEMENT MARKINGS	L.F.	7487		7487	\$1.20	\$ 8,984
1211001	REMOVAL OF PAVEMENT MARKINGS	S.F.	75663		75663	\$1.00	\$ 75,663
<b>SPM ITEMS =</b>						<b>\$</b>	<b>1,406,454</b>

