

PROJECT: Route 70 over Manasquan River

FILE: H:\1354\Engineering\Awards\FHWA-EDC\Estimate[1354-Rt70 SquareFoot Cost.xls]Bare Structural Cost (2)

DATE: 12/12/2005

SUBJECT: SQUARE FOOT COST OF BRIDGE

PAY ITEM NO.	STD ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	LOW BIDDER		SUPERSTR.	DECK	SUBSTR.
					UNIT PRICE	PRICE			
321	2F21F	COFFERDAMS	LS	1	\$50,000.00	\$50,000			
322	N2F04	PRECAST CONCRETE COFFERDAMS, HPC	U	10	\$385,700.00	\$3,857,000			\$3,857,000
323	N2F05	FOUNDATION EXCAVATION, REGULATED WASTE	CY	52	\$70.00	\$3,640			
324	N2F06	FOUNDATION EXCAVATION, RIVERBED	CY	52	\$85.00	\$4,420			
325	5A21A	CONCRETE IN STRUCTURES, FOOTINGS	CY	280	\$475.00	\$133,000			\$133,000
326	5A12B	CONCRETE IN SUBSTRUCTURES, ABUTMENT WALLS	CY	126	\$1,300.00	\$163,800			\$163,800
327	5A21D	CONCRETE SEAL IN COFFERDAMS	CY	278	\$250.00	\$69,500			\$69,500
328	5A21E	REINFORCEMENT STEEL IN STRUCTURES	LBS	136,901	\$1.00	\$136,901			\$136,901
329	5A31E	REINFORCEMENT STEEL IN STRUCTURES, EPOXY-COATED	LBS	723,373	\$1.25	\$904,216		\$722,241	\$181,966
330	5A31G	EPOXY WATERPROOFING SEAL COAT	SY	2,700	\$21.50	\$58,050			\$58,050
331	5A23J	STRIP SEAL EXPANSION DAM	LF	284	\$380.00	\$107,920		\$107,920	
332	5A21L	SAWCUT GROOVED DECK SURFACE	SF	52,600	\$0.35	\$18,410		\$18,410	
333	N5A07	CONCRETE IN STRUCTURES, FOOTINGS CLASS A HPC	CY	2,732	\$285.00	\$778,620			\$778,620
334	N5A01	CONCRETE IN SUPERSTRUCTURE, DECK SLABS, HPC	CY	2,520	\$710.00	\$1,789,200		\$1,789,200	
335	N5A02	CONCRETE IN SUPERSTRUCTURE, SIDEWALKS, HPC	CY	190	\$175.00	\$33,250		\$33,250	
336	N5A03	CONCRETE IN SUPERSTRUCTURES, PARAPET, 2'-8" HIGH, HPC	LF	724	\$185.00	\$133,940		\$133,940	
337	N5A04	CONCRETE IN SUPERSTRUCTURES, PARAPET, 3'-5" HIGH, HPC	LF	724	\$205.00	\$148,420		\$148,420	
339	N5A06	CONCRETE IN SUBSTRUCTURES, PIER COLUMNS AND CAPS, HPC	CY	104	\$1,800.00	\$187,200			\$187,200
340	N5B01	PRETENSIONED PRESTRESSED CONCRETE BEAMS, XB 71 47	LF	8,586	\$255.00	\$2,189,430	\$2,189,430		
341	N5B02	PRETENSIONING STRAND IN CAP BEAM, EPOXY COATED	LBS	10,736	\$5.60	\$60,122			\$60,122
342	5C19A	STRUCTURAL STEEL (119220 LBS)	LS	1	\$284,000.00	\$284,000	\$284,000		
343	N5C01	REINFORCED ELASTOMERIC BEARING ASSEMBLY	U	144	\$1,760.00	\$253,440	\$253,440		
345	5E19B	TEST PILES, DRIVEN	LF	3,356	\$125.00	\$419,500			\$419,500
346	5E19C	TEST PILES, FURNISHED	LF	3,356	\$80.00	\$268,480			\$268,480
347	5E28L	DYNAMIC PILE LOAD TESTS	U	28	\$2,100.00	\$58,800			
348	5E21M	FURNISHING EQUIPMENT FOR DRIVING PILES	LS	1	\$3,420,000.00	\$3,420,000			
349	N5E01	CONCRETE FILLED STEEL PIPE PILES, FURNISHED, 24" DIAMETER	LF	35,836	\$81.00	\$2,902,716			\$2,902,716
350	N5E02	CONCRETE FILLED STEEL PIPE PILES, DRIVEN, 24" DIAMETER	LF	35,836	\$75.00	\$2,687,700			\$2,687,700
351	N5E03	SPLICES, FOR STEEL PIPE PILES, 24" DIAMETER	U	364	\$250.00	\$91,000			\$91,000
357	N5E06	RESTRIKING	U	10	\$6,150.00	\$61,500			
358	5H01E	METAL RAILING (1 RAIL, ALUMINUM)	LF	1,448	\$66.00	\$95,568		\$95,568	
362	5M31C	SHEETING LEFT IN PLACE	SF	850	\$100.00	\$85,000			
	5U01D	RETAINING WALL, LOCATION NUMBER	SF	3,240	\$110.00	\$356,400			
363	N5W01	CONCRETE IN SUBSTRUCTURES, PRECAST 8000 PSI, HPC	CY	506	\$4,325.00	\$2,188,450			\$2,188,450
364	N5X01	POST TENSIONING STRAND IN SUBSTRUCTURE, EPOXY COATED	LBS	17,938	\$19.50	\$349,791			\$349,791
365	N5X02	POST TENSIONING BAR IN SUBSTRUCTURE	LBS	5,934	\$34.00	\$201,756			\$201,756
366	N5Z01	VIBRATION MONITORING AND CONTROL	LS	1	\$100,000.00	\$100,000			
367	N6E01	15" X 32" CONCRETE BARRIER CURB, BRIDGE, HPC	LF	1,448	\$45.00	\$65,160		\$65,160	
370	7A26C	1.5" RIGID METALLIC CONDUIT, TYPE CUG	LF	150	\$18.50	\$2,775			
371	7A31C	2" RIGID METALLIC CONDUIT, TYPE CUG	LF	830	\$11.25	\$9,338			
372	7A41C	3" RIGID METALLIC CONDUIT, TYPE CUG	LF	1,448	\$18.50	\$26,788			
373	7A75J	JUNCTION BOX FRAMES AND COVERS	U	30	\$950.00	\$28,500			
374	N7A01	1 1/4" RIGID METALLIC CONDUIT, TYPE CUG	LF	124	\$23.00	\$2,852			
375	N7A02	4 - 1 1/4" RIGID METALLIC CONDUIT, TYPE CUG	LF	724	\$30.00	\$21,720			

Subtotal =	\$24,808,272	\$2,726,870	\$3,114,109	\$14,735,552
0% Contingency =				
Total Cost =	\$24,808,272			
Non-Structural Items =	\$4,231,741			
Total Structural Cost =	\$20,576,531			

Square Foot Area = 68,541		<b>Total</b>	<b>Superstr.</b>	<b>Deck</b>	<b>Substr.</b>
	<b>Structural Cost/SF =</b>	<b>\$300</b>	<b>\$40</b>	<b>\$45</b>	<b>\$215</b>