

QUANTITIES

NO.	ITEM	UNIT	ESTIMATE			FINAL		
			N.B. BRIDGE	S.B. BRIDGE	TOTAL	N.B. BRIDGE	S.B. BRIDGE	TOTAL
20216	REMOVAL OF BRIDGE PAVEMENT	S.Y.	3,978	3,912	7,890			
20235	REMOVAL OF EXISTING CONCRETE OR MASONRY	C.Y.	61	61	122			
40465	EMULSIFIED ASPHALT	CWT	18	18	36			
40625	BITUMINOUS CONCRETE PAVEMENT (TYPE IV)	TON	216	213	429			
40925	OPEN GRADED ASPHALT FRICTION COURSE	TON	162	160	322			
50119	CONCRETE, CLASS AA	C.Y.	111	109	220			
50120	CONCRETE, CLASS A	C.Y.	52	52	104			
50680	DRAIN TROUGH	LF.	63	63	126			
50693	STRUCTURAL STEEL (ASTM A36)	LBS.	219,360	216,640	436,000			
50693	STRUCTURAL STEEL (ASTM A572 OR A588)	LBS.	21,090	21,090	42,180			
50715	REINFORCING STEEL	LBS.	13,800	13,800	27,600			
50920	STEEL GRID FLOORING - GALVANIZED	S.F.	3,055	3,005	6,060			
51335	PAINTING, BLAST CLEANING (2,467 TONS)	LS.	0.5	0.5	1			
51410	WATER REPELLANT	GAL.	136	134	270			
51632	ELASTOMERIC EXPANSION DAM (2" MOVEMENT)	L.F.	36	36	72			
51821	PREPARATION OF CONCRETE SURFACE, CLASS I	S.Y.	200	195	395			
51822	PREPARATION OF CONCRETE SURFACE, CLASS II	S.Y.	795	780	1,575			
51920	SHEET MEMBRANE WATERPROOFING	S.Y.	3,972	3,905	7,877			
61530	EPOXY BONDING COMPOUND	GAL.	20	20	40			
62156	TEMPORARY BARRIER RAIL	L.F.	2,600	2,600	5,200			
63010	UNIFORMED TRAFFIC OFFICERS	HOURL	250	250	500			
63015	FLAGPERSONS	HOURL	100	100	200			
63410	EMPLOYEE TRAINEESHIP	HOURL	1,040	1,040	2,080			
63510	MOBILIZATION	LS.	0.5	0.5	1			
64110	TRAFFIC CONTROL	LS.	0.5	0.5	1			
67520	TRAFFIC SIGNS, TYPE A	S.F.	0.5	0.5	1			
67525	TRAFFIC SIGNS, TYPE B	S.F.	0.5	0.5	1			
67615	REMOVE AND REPLACE DELINEATOR UNITS (INSTALL ONLY)	EACH	90	90	180			

NOTES

- THIS PROJECT INCLUDES THE FOLLOWING:
 - CONSTRUCTION OF A TEMPORARY TRAFFIC CONTROL SYSTEM.
 - INSTALLATION OF A SECONDARY SUPPORT SYSTEM AT THE PIN HANGER CONNECTIONS.
 - REVISIONS AND REPLACEMENT OF DRAINAGE SYSTEM.
 - STABILIZATION OF CROSS FRAMES AND LATERAL BRACING.
 - REPAIR AND REPLACEMENT OF DECK JOINTS.
 - DECK REHABILITATION, INCLUDING REMOVAL OF PAVEMENT, DECK PATCHING, PLACEMENT OF NEW MEMBRANE AND PAVEMENT.
 - BLAST CLEANING AND PAINTING THE STEEL.
 - INSTALLATION OF AN INSPECTION WALKWAY.
- ALL STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED. THE UNIT BID PRICE FOR PAY ITEM 513.35, "PAINTING, BLAST CLEANING" WILL BE FULL COMPENSATION FOR CLEANING AND PAINTING THE EXISTING BRIDGES. THE UNIT BID PRICE FOR PAY ITEM 506.93, "STRUCTURAL STEEL", WILL INCLUDE THE COST OF PAINTING STEEL WHICH IS BEING ADDED TO THE BRIDGES. THE FINAL COAT OF PAINT SHALL BE GREEN.
- ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES F UNLESS OTHERWISE NOTED. BOTH NORTHBOUND AND SOUTHBOUND BRIDGES ARE ON A GRADE. NO SURVEY WAS TAKEN OF THIS PROJECT. ALL DIMENSIONS WERE TAKEN FROM THE EXISTING BRIDGE PLANS OF HARTFORD 191-2(3) (22), DATED 1963. SOME OF THE EXISTING PLAN SHEETS HAVE BEEN INCLUDED WITH THIS PROJECT FOR REFERENCE. COPIES OF OTHER SHEETS FROM THE EXISTING BRIDGE PLANS ARE AVAILABLE FROM THE STRUCTURES DIVISION UPON REQUEST.
- THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS BEFORE BEGINNING FABRICATION.
- ALL EXISTING ROD ASSEMBLIES THAT ARE BETWEEN THE TOP AND BOTTOM LATERAL BRACING SHALL BE REMOVED. THE EXISTING DRAINAGE FACILITIES AT THE HINGE JOINTS, INCLUDING HORIZONTAL TUBES TO PIERS AND DOWN THE PIERS, SHALL BE REMOVED. ANY EXISTING MATERIAL REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. PAYMENT FOR COST OF LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO REMOVE EXISTING MATERIALS SHALL BE SUBSIDIARY TO OTHER ITEMS.
- ALL NEW STRUCTURAL STEEL SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED.
- PAY ITEM 506.93, "STRUCTURAL STEEL" (A-572 OR A-588) IS HEREBY CLASSIFIED AS BEING FRACTURE CRITICAL MEMBERS. IF THE CONTRACTOR ELECTS TO SUPPLY ASTM A-572, IT SHALL MEET THE PHYSICAL PROPERTIES OF A-588. WELDING ON THIS STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE 1981 AASHTO STANDARD SPECIFICATIONS, INCLUDING THE PROVISIONS OF THE STRUCTURAL WELDING CODE, AWS D11-80, AND THE AASHTO GUIDE SPECIFICATIONS FOR FRACTURE CRITICAL NON-REDUNDANT STEEL BRIDGE MEMBERS, DATED SEPTEMBER 1978. MATERIAL AND WELDING WILL CONFORM TO TEMPERATURE ZONE 3. THE WELDED FABRICATED FRACTURE CRITICAL MEMBER SHALL BE 100% ULTRASONICALLY TESTED. THE STEEL FABRICATOR SHALL IN ADDITION TO THE ABOVE REQUIREMENTS, SUBMIT THE FOLLOWING TO THE STRUCTURES ENGINEER FOR APPROVAL:
 - QUALIFICATIONS OF WELDER;
 - WELDING PROCEDURES;
 - PREQUALIFICATION TESTS PROCEDURES AND RESULTS FOR EACH WELD.
- TRAFFIC SHALL BE MAINTAINED ON I-91, U.S. 4, VT. 14, T.H. 103, AND THE RAILROAD AT ALL TIMES. UNLESS OTHERWISE PROVIDED FOR, ALL COST ASSOCIATED WITH MAINTAINING TRAFFIC SHALL BE SUBSIDIARY TO PAY ITEM 64110, "TRAFFIC CONTROL".
- WATER REPELLENT SHALL BE APPLIED TO ALL CONCRETE CURBS, FASCIAS, AND BOTTOM OF DECK FROM THE FASCIA TO THE FASCIA STRINGER.
- THE EXISTING BRIDGE SURFACES SHALL NOT BE DISTURBED BEFORE THE TEMPORARY TRAFFIC SYSTEM IS OPEN. THE TEMPORARY TRAFFIC SYSTEM SHALL NOT BE USED UNTIL THE CONTRACTOR HAS WRITTEN APPROVAL FROM THE ENGINEER. APPROVAL WILL NOT BE GRANTED BEFORE APRIL 1, 1985.

STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town of HARTFORD		Bridge No. 44N&S	
Highway No. 191		Log. Stc.	
		Surv. Stc.	
QUANTITIES AND GENERAL NOTES			
191 OVER THE WHITE RIVER, U.S. RTE. 4, AND VT. RTE. 14			
Designed By A. ELWOOD	Drawn By D. C. WILLEY		
Checked By G. SPILAK	Date 9-84	Bridge Design Supervisor R. S. HAUPT Date 9-84	
PROJECT HARTFORD		PROJECT NO. 1R-91-2 (1)	
Log. Info. QSA1130.25182A1150UADGN			
Bridge Sheet No.		Sheet 2 of 30	