

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(61)	2012	ADD. 38	137

ESTIMATED QUANTITIES (STRUCTURAL)

ITEM NO.	ITEM	QUANTITY	UNIT
202.1000	Removal of existing bridge railings, endposts and sidewalks, portion of existing deck slabs and deck drains, portion of existing abutments, wingwalls, fins, parapets and brackets, existing wood stairs and concrete stair on grade	L.S.	L.S.
202.2000	Relocate existing DOT trailer and field house	L.S.	L.S.
205.1000	Structure excavation for abutments and wingwalls	L.S.	L.S.
205.2000	Structure excavation for Piers #1, #2, and #3	L.S.	L.S.
205.3000	Shoring, bracing and/or underpinning of existing bridge foundations	L.S.	L.S.
205.4000	Structure backfill for abutments and wingwalls	L.S.	L.S.
205.5000	Structure backfill for Piers #1, #2, and #3	L.S.	L.S.
212.1000	Probing at Pier #1 and Pier #2	460	L.F.
212.2000	Grouting of Probe Holes at Pier #1 and Pier #2	4	C.Y.
212.3000	Backfilling of Grouting of Voids or Cavities at Pier #1 and Pier #2	F.A.	F.A.
501.1000	Structural steel - welded plate girders (primed and painted)	L.S.	L.S.
501.2000	Structural steel - bracing and other members (zinc hot dip galvanized and painted)	L.S.	L.S.
501.3000	Structural steel - longitudinal strut, bumper and strut/bumper (zinc hot-dip galvanized and painted)	L.S.	L.S.
503.1000	Concrete in bridge deck slab widening	L.S.	L.S.
503.2000	Concrete in pier columns and caps - Piers #1, #2, and #3	L.S.	L.S.
503.3000	Concrete in abutments and wingwalls	L.S.	L.S.
503.4000	Concrete in abutment foundations (pile caps)	L.S.	L.S.
503.5000	Concrete in pier foundations (footings and pile caps)	L.S.	L.S.
503.6000	Concrete in approach slabs behind abutments	L.S.	L.S.
503.7000	Concrete in bridge deck new and existing - joint seals	L.S.	L.S.
506.1000	Bearing and expansion plates under new and existing steel plate girders (including new anchor bolts)	L.S.	L.S.
507.1000	Concrete traffic railing and endposts	L.S.	L.S.
511.1000	Furnishing drilled shaft drilling equipment	L.S.	L.S.
511.2000	Furnishing instrumentation and collecting data	L.S.	L.S.
511.3000	Drilled shafts	330	L.F.
511.4000	Standard excavation	330	L.F.
512.1000	Furnishing micropile drilling and grouting equipment	L.S.	L.S.
512.2000	Preproduction micropile load tests	L.S.	L.S.
512.3000	Production micropiles - uncased length of micropile	720	L.F.
512.4000	Production micropiles - cased length of micropile	800	L.F.
602.1000	Reinforcing steel for bridge (except foundations)	L.S.	L.S.
602.2000	Reinforcing steel for foundations	L.S.	L.S.
604.1000	Steel frame and hatch cover in concrete pier column	L.S.	L.S.
628.1000	Shotcrete for Pier #3 ground anchors	L.S.	L.S.
648.1000	Field Posted Drawings	L.S.	L.S.
654.1000	Longitudinal cable restrainer	L.S.	L.S.
670.1000	Draped wire mesh	180	S.Y.
681.1000	Furnishing specialty equipment for ground anchors	L.S.	L.S.
681.2000	Ground anchors for Pier #3	10	Ea.
681.3000	Reinstallation of ground anchors due to grout loss and additional performance tests or proof tests	F.A.	F.A.
694.1001	Repair to structural steel members - type 1	20	Ea.
694.1002	Repair to structural steel members - type 2	500	Ea.
694.1003	Repair to structural steel members - type 3	100	Ea.

ESTIMATED QUANTITIES (STRUCTURAL)

ITEM NO.	ITEM	QUANTITY	UNIT
694.1004	Repair to structural steel members - type 4	100	Ea.
694.1005	Repair to structural steel members - type 5	1,000	L.F.
694.1006	Repair to structural steel members - type 6	1,000	L.F.
694.2000	Clean and paint existing steel towers and bents	L.S.	L.S.
694.3000	Clean and paint existing steel superstructure	L.S.	L.S.
694.4000	Repair to Structural Steel Members in Existing Superstructure	F.A.	F.A.
695.1000	Certified industrial hygienist	F.A.	F.A.
695.2000	Industrial hygienist technician	F.A.	F.A.
695.3000	Removal and Disposal of Lead-Based Paint	F.A.	F.A.
695.4000	Remediation of Lead-Impacted Soil	F.A.	F.A.
696.1000	Field office trailer (not to exceed \$100,000.00)	L.S.	L.S.
696.2000	Maintenance of trailers	F.A.	F.A.

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	

10/30/12
Revise Pay Item 212.2000

10/22/12
Added Pay Items

DATE REVISION



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ESTIMATED QUANTITIES (STRUCTURAL)

HAWAII BELT ROAD
Rehabilitation of Umauma Stream Bridge
Federal Aid Project No. BR-019-2(61)

Scale: None Date: July 25, 2012

SHEET No. S0.4 OF 4 SHEETS