CRP No. 2144
RAP Project No. 2108-01
Federal-Aid No. STPR-G211(001)
Federal Contract No. TA-5900
Highway 603 Stabilization Project
April 12, 2016

					Sterling Breen Crushing, Inc. P.O. Box 1347 Chehalis, Wa 98532 360-736-4240		Tapani, Inc. 1904 SE 6th Pl Battleground, WA 98604 (360) 687-1148				Engineer's Estimate
	TOTAL BID				**4,300,089.52**		**5,166,653.00**				**4,290,539.50**
1	MOBILIZATION	1	L.S.	229,176.00	229,176.00	435,000.00	435,000.00		0.00	201,735.00	201,735.00
2	CLEARING AND GRUBBING	14.10	ACRE	3,500.00	49,350.00	12,000.00	169,200.00		0.00	5,000.00	70,500.00
3	REMOVAL OF STRUCTURE AND OBSTRUCTION	1	L.S.	20,000.00	20,000.00	15,000.00	15,000.00		0.00	5,000.00	5,000.00
4	REMOVING GUARDRAIL	1,137	L.F.	7.70	8,754.90	4.00	4,548.00		0.00	4.00	4,548.00
5	REMOVING WIRE FENCE	606	L.F.	6.30	3,817.80	2.00	1,212.00		0.00	3.00	1,818.00
6	ROADWAY EXCAVATION INCL. HAUL	34,256	C.Y.	9.00	308,304.00	14.00	479,584.00		0.00	10.50	359,688.00
7	SELECT BORROW INCL. HAUL	37,768	TON	14.41	544,236.88	15.50	585,404.00		0.00	14.00	528,752.00
8	EMBANKMENT COMPACTION	2,925	C.Y.	2.50	7,312.50	2.00	5,850.00		0.00	5.00	14,625.00
9	ROCK FOR EROSION AND SCOUR PROTECTION CL. A	575	TON	26.10	15,007.50	55.00	31,625.00		0.00	15.00	8,625.00
10	DITCH EXCAVATION INCL. HAUL	13	C.Y.	100.00	1,300.00	50.00	650.00		0.00	15.00	195.00
11	CHANNEL EXCAVATION INCL. HAUL	1,963	C.Y.	8.50	16,685.50	22.00	43,186.00		0.00	20.00	39,260.00
12	DROP INLET TYPE 1	3	EA.	2,885.00	8,655.00	4,500.00	13,500.00		0.00	3,750.00	11,250.00
13	DROP INLET TYPE 2	1	EA.	2,600.00	2,600.00	5,800.00	5,800.00		0.00	4,000.00	4,000.00
14	COMBINATION INLET	2	EA.	860.00	1,720.00	2,500.00	5,000.00		0.00	2,300.00	4,600.00
15	QUARRY SPALLS	2,917	TON	18.50	53,964.50	27.00	78,759.00		0.00	25.00	72,925.00
16	UNDERDRAIN PIPE 4 IN. DIAM.	547	L.F.	16.40	8,970.80	8.00	4,376.00		0.00	14.00	7,658.00
17	DRAIN PIPE 4 IN. DIAM.	31	L.F.	32.90	1,019.90	25.00	775.00		0.00	14.00	434.00
18	DRAIN PIPE 8 IN. DIAM.	13	L.F.	42.65	554.45	30.00	390.00		0.00	20.00	260.00
19	SCHEDULE A CULV. PIPE 18 IN. DIAM. (FROM STOCKPILE)	749	L.F.	26.10	19,548.90	35.00	26,215.00		0.00	25.00	18,725.00
20	SCHEDULE A CULV. PIPE 24 IN. DIAM. (FROM STOCKPILE)	24	L.F.	83.50	2,004.00	65.00	1,560.00		0.00	55.00	1,320.00
21	PLAIN CONC. CULV. PIPE 18 IN. DIAM. (FROM STOCKPILE)	54	L.F.	52.15	2,816.10	65.00	3,510.00		0.00	40.00	2,160.00
22	CL. III REINF. CONC. CULV. PIPE 36 IN. DIAM.	64	L.F.	136.35	8,726.40	145.00	9,280.00		0.00	200.00	12,800.00
23	CL. IV REINF. CONC. CULV. PIPE 18 IN. DIAM. (FROM STOCKPILE)	152	L.F.	50.00	7,600.00	65.00	9,880.00		0.00	30.00	4,560.00
24	CL. V REINF. CONC. CULV. PIPE 18 IN. DIAM. (FROM STOCKPILE)	176	L.F.	50.00	8,800.00	65.00	11,440.00		0.00	35.00	6,160.00
25	CL. V REINF. CONC. CULV. PIPE 24 IN. DIAM.	61	L.F.	82.00	5,002.00	85.00	5,185.00		0.00	40.00	2,440.00
26	PLAIN ST. CULV. PIPE ARCH 0.064 IN. TH. 21 IN. SPAN	64	L.F.	85.90	5,497.60	175.00	11,200.00		0.00	65.00	4,160.00
27	PRECAST REINF. CONC. SPLIT BOX CULV. 8' SPAN x 1' RISE	1	L.S.	53,490.00	53,490.00	60,000.00	60,000.00		0.00	10,000.00	10,000.00
28	RAISED DRAINAGE GRATE	1	L.S.	10,000.00	10,000.00	1,250.00	1,250.00		0.00	2,500.00	2,500.00
29	CATCH BASIN TYPE 1L	20	EA.	762.75	15,255.00	1,400.00	28,000.00		0.00	1,500.00	30,000.00
30	CATCH BASIN TYPE 2, 48 IN. DIAM.	27	EA.	1,745.00	47,115.00	2,800.00	75,600.00		0.00	2,750.00	74,250.00
31	CATCH BASIN TYPE 2, 54 IN. DIAM. (POND OUTLET STRUCTURE)	4	EA.	5,467.50	21,870.00	6,500.00	26,000.00		0.00	6,000.00	24,000.00
32	CATCH BASIN TYPE 2, 72 IN. DIAM. (POND OUTLET STRUCTURE)	1	EA.	7,090.00	7,090.00	9,000.00	9,000.00		0.00	8,000.00	8,000.00
33	CATCH BASIN TYPE 2, 60 IN. DIAM. (2-FLOW SPLITTER)	3	EA.	6,361.00	19,083.00	6,000.00	18,000.00		0.00	7,000.00	21,000.00
34	TESTING STORM SEWER PIPE	6,901	L.F.	0.75	5,175.75	2.00	13,802.00		0.00	0.50	3,450.50
35	CL V REINF. CONC. STORM SEWER PIPE 24 IN. DIAM. (FROM STOCKPILE)	48	L.F.	74.85	3,592.80	75.00	3,600.00		0.00	50.00	2,400.00
36	CL. V REINF. CONC. STORM SEWER PIPE 12 IN. DIAM.	288	L.F.	41.00	11,808.00	60.00	17,280.00		0.00	45.00	12,960.00
37	CL. V REINF. CONC. STORM SEWER PIPE 18 IN. DIAM. (FROM STOCKPILE)	2,502	L.F.	26.50	66,303.00	50.00	125,100.00		0.00	30.00	75,060.00
38	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	83	L.F.	88.55	7,349.65	50.00	4,150.00		0.00	40.00	3,320.00
39	SCHEDULE A STORM SEWER PIPE 18 IN. DIAM. (FROM STOCKPILE)	3,980	L.F.	26.25	104,475.00	45.00	179,100.00		0.00	40.00	159,200.00
40	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM. (FROM STOCKPILE)	78	L.F.	37.50	2,925.00	65.00	5,070.00		0.00	60.00	4,680.00
41	GRATE INLET TYPE 1	4	EA.	1,657.00	6,628.00	2,400.00	9,600.00		0.00	7,500.00	30,000.00
42	BIOSWALE SPECIAL STRUCTURES	1	L.S.	50,000.00	50,000.00	10,000.00	10,000.00		0.00	4,000.00	4,000.00
43	STRUCTURAL EARTH WALL	2,242	S.F.	15.00	33,630.00	22.00	49,324.00		0.00	20.00	44,840.00
44	CRUSHED SURFACING BASE COURSE	30,997	TON	14.41	446,666.77	18.00	557,946.00		0.00	15.00	464,955.00

45	CRUSHED SURFACING TOP COURSE	8,037	TON	14.41	115,813.17	22.00	176,814.00		0.00	18.00	144,666.00
46	SHOULDER FINISHING	3.47	MILE	11,530.00	40,009.10	8,500.00	29,495.00		0.00	7,500.00	26,025.00
47	HMA CL. 1/2 IN. PG 64-22	7,485	TON	73.50	550,147.50	75.00	561,375.00		0.00	85.00	636,225.00
48	HMA FOR APPROACH CL. 1/2 IN. PG 64-22	500	TON	136.50	68,250.00	150.00	75,000.00		0.00	100.00	50,000.00
49	COMMERCIAL HMA	0	EST.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	SILT FENCE	10,245	L.F.	8.35	85,545.75	3.00	30,735.00		0.00	6.00	61,470.00
51	ESC LEAD	30	DAY	500.00	15,000.00	55.00	1,650.00		0.00	200.00	6,000.00
52	TOPSOIL TYPE A	142	C.Y.	45.00	6,390.00	44.00	6,248.00		0.00	45.00	6,390.00
53	SEEDING, FERTILIZING, AND MULCHING	14.1	ACRE	5,331.00	75,167.10	5,400.00	76,140.00		0.00	3,250.00	45,825.00
54	BIODEGRADABLE EROSION CONTROL BLANKET	8,450	S.Y.	2.50	21,125.00	3.00	25,350.00		0.00	5.00	42,250.00
55	CHECKDAM	1,140	L.F.	5.50	6,270.00	5.50	6,270.00		0.00	12.50	14,250.00
56	WATTLE	1,610	L.F.	4.00	6,440.00	3.50	5,635.00		0.00	3.00	4,830.00
57	SOD INSTALATION	255	S.Y.	5.20	1,326.00	12.00	3,060.00		0.00	30.00	7,650.00
58	EROSION CONTROL AT CULVERT ENDS	14	EA.	200.00	2,800.00	1,000.00	14,000.00		0.00	250.00	3,500.00
59	MITIGATION PLANTING	1	L.S.	41,800.00	41,800.00	30,000.00	30,000.00		0.00	30,000.00	30,000.00
60	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	575	L.F.	30.00	17,250.00	25.00	14,375.00		0.00	30.00	17,250.00
61	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	6,068.75	L.F.	33.00	200,268.75	28.00	169,925.00		0.00	30.00	182,062.50
62	BEAM GUARDRAIL TYPE 31 - 11 FT. LONG POST	275	L.F.	44.00	12,100.00	74.00	20,350.00		0.00	40.00	11,000.00
63	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL	10	EA.	3,300.00	33,000.00	3,000.00	30,000.00		0.00	2,250.00	22,500.00
64	EXTRUDED CURB	4,709	L.F.	6.80	32,021.20	7.00	32,963.00		0.00	10.00	47,090.00
65	BEAM GUARDRAIL TYPE 31	112.50	L.F.	26.50	2,981.25	23.00	2,587.50		0.00	30.00	3,375.00
66	BEAM GUARDRAIL TYPE 31 TRANSITION SECTION TYPE 21	2	EA.	4,950.00	9,900.00	4,000.00	8,000.00		0.00	3,250.00	6,500.00
67	BEAM GUARDRAIL TYPE 31 ANCHOR TYPE 10	12	EA.	1,265.00	15,180.00	1,700.00	20,400.00		0.00	800.00	9,600.00
68	PAINT LINE	23,740	L.F.	0.25	5,935.00	0.25	5,935.00		0.00	0.25	5,935.00
69	FLEXIBLE GUIDE POST (WW)	125	EA.	66.70	8,337.50	35.00	4,375.00		0.00	37.50	4,687.50
70	PLASTIC STOP LINE	95	L.F.	16.50	1,567.50	17.00	1,615.00		0.00	20.00	1,900.00
71	RECESSED PAVEMENT MARKER (2YY)	1.2	HUND.	2,420.00	2,904.00	2,600.00	3,120.00		0.00	5,000.00	6,000.00
72	PERMANENT SIGNING	1	L.S.	22,000.00	22,000.00	20,000.00	20,000.00		0.00	7,600.00	7,600.00
73	PROJECT TEMPORARY TRAFFIC CONTROL	1	L.S.	222,400.00	222,400.00	150,000.00	150,000.00		0.00	125,000.00	125,000.00
74	CONSTRUCTION SIGNS CLASS A	409	S.F.	28.00	11,452.00	18.00	7,362.00		0.00	35.00	14,315.00
75	STRUCTURE EXCAVATION CLASS A INCL. HAUL	609	C.Y.	10.00	6,090.00	20.00	12,180.00		0.00	25.00	15,225.00
76	STRUCTURE EXCAVATION CLASS B INCL. HAUL	21,513	C.Y.	9.00	193,617.00	12.50	268,912.50		0.00	10.00	215,130.00
77	SHORING OR EXTRA EXCAVATION CLASS B	19,990	S.F.	1.80	35,982.00	1.00	19,990.00		0.00	1.00	19,990.00
78	GRAVEL BACKFILL FOR DRAIN	105	C.Y.	22.50	2,362.50	30.00	3,150.00		0.00	50.00	5,250.00
79	WATER	2,400	MGAL	30.00	72,000.00	40.00	96,000.00		0.00	15.00	36,000.00
80	COMMERCIAL CONCRETE	3	C.Y.	400.00	1,200.00	1,200.00	3,600.00		0.00	200.00	600.00
81	ST. REINF. BAR	53	L.B.	105.00	5,565.00	5.00	265.00		0.00	15.00	795.00
82	WIRE FENCE TYPE 2	1,110	L.F.	9.40	10,434.00	11.00	12,210.00		0.00	8.00	8,880.00
83	DOUBLE WIRE GATE 20 FT.	1	EA.	1,517.25	1,517.25	2,200.00	2,200.00		0.00	1,200.00	1,200.00
84	ACCESS CONTROL GATE	3	EA.	3,564.75	10,694.25	2,500.00	7,500.00		0.00	1,400.00	4,200.00
85	TRIMMING AND CLEANUP	1	L.S.	10,000.00	10,000.00	5,000.00	5,000.00		0.00	10,000.00	10,000.00
86	CONSTRUCTION GEOTEXTILE FOR SEPARATION	4,130	S.Y.	2.50	10,325.00	1.50	6,195.00		0.00	2.00	8,260.00
87	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE	110	S.Y.	4.00	440.00	2.00	220.00		0.00	5.00	550.00
88	MAILBOX SUPPORT TYPE 1	15	EA.	500.00	7,500.00	400.00	6,000.00		0.00	350.00	5,250.00
89	GRAVEL BORROW FOR STRUCTURAL EARTH WALL INC.HAUL	1,000	TON	19.50	19,500.00	14.00	14,000.00		0.00	25.00	25,000.00
90	FORCE ACCOUNT UNSUITABLE SUBGRADE REMOVAL	0	EST.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	REIMBURSEMENT FOR THIRD PARTY DAMAGE	0	EST.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	MINOR CHANGE	1	CALC.	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00
93	SPCC PLAN	1	L.S.	600.00	600.00	500.00	500.00		0.00	2,500.00	2,500.00