



Engineer's Cost Estimate

ENGINEER'S COST ESTIMATE TOTAL SUMMARY

(Insert information only in shaded cells)

SITE ADDRESS:

OTAY RANCH ~ MU-1
0 SANTA CAROLINA RD.
CHULA VISTA, CA 91913

Grading Work Order No.	GR230016
Improvement Work Order No.	
Map Work Order No.	
DWG No.	23046
Company Job No.	77222.2
Original Date:	10/16/2023
Revised Date:	
Revised Date:	
Revised Date:	
Current Date:	10/16/2023

ENGINEERING COMPANY:

SB&O, INC.
3990 RUFFIN ROAD, STE 120
SAN DIEGO, CA 92123
(858) 560-1141

ITEM	TOTAL	% OF COST TO BE BONDED	TOTAL
Earthwork	\$ 79,617.98	25%	\$ 19,904.50
Storm Drain	\$ 8,184.16	100%	\$ 8,184.16
BMPs	\$ -	100%	\$ -
SUBTOTAL			\$ 28,088.66
10% CONTINGENCY			\$ 2,808.87
TOTAL GRADING BOND			\$ 30,897.52

ITEM	TOTAL	% OF COST TO BE BONDED	TOTAL
Landscape	\$ -	100%	\$ -
Surface Improvements	\$ -	100%	\$ -
Traffic	\$ -	100%	\$ -
Utilities	\$ -	100%	\$ -
SUBTOTAL			\$ -
10% CONTINGENCY			\$ -
TOTAL AMOUNT TO BE BONDED			\$ -
FAITHFUL PERFORMANCE BOND			
LABOR & MATERIAL BOND			

ITEM	TOTAL	% OF COST TO BE BONDED	TOTAL
Miscellaneous	\$ -	100%	\$ -
SUBTOTAL			\$ -
10% CONTINGENCY			\$ -
TOTAL MISCELLANEOUS BOND			\$ -

RCE SEAL	ENGINEER OF WORK SIGNATURE
	PRINT NAME: AARON PARKER
	TITLE: PRESIDENT
	RCE EXPIRATION: 9/30/23

STAFF USE ONLY	
BONDS IN THE AMOUNT OF: _____	for GRADING
(Rounded to the nearest 100s) _____	for FAITHFUL PERFORMANCE
_____	for LABOR & MATERIAL
_____	for SURVEY MONUMENTATION
WILL SATISFY THE PROVISIONS OF ARTICLE (18.16.230) OF THE CITY OF CHULAVISTA MUNICIPAL CODE FOR IMPROVEMENT OF:	
DATE: _____	BY: _____ TITLE: _____

NOTE: UNIT PRICES ARE BASED ON AVAILABLE COUNTY OF SAN DIEGO LAND DEVELOPMENT DIVISION UNIT PRICE LIST, JULY 2017



Engineer's Cost Estimate

ENGINEER'S COST ESTIMATE EARTHWORK SECTION

(Insert information only in shaded cells)

SITE ADDRESS:

OTAY RANCH ~ MU-1
0 SANTA CAROLINA RD.
CHULA VISTA, CA 91913

Grading Work Order No. GR230016

Improvement Work Order No. 0

Map Work Order No. 0

DWG No. 23046

Company Job No. 77222.2

ENGINEERING COMPANY:

SB&O, INC.
3990 RUFFIN ROAD, STE 120
SAN DIEGO, CA 92123
(858) 560-1141

Original Date: 45215

Revised Date: 0

Revised Date: 0

Revised Date: 0

Current Date: 45215

ITEM NO.	ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
1	Grading Embankment/Excavation	0-1,000		C.Y.	\$ 23.97	\$ -
2		1,001-20,000	1750	C.Y.	\$ 13.07	\$ 22,872.50
3		> 20,000		C.Y.	\$ 7.79	\$ -
4	Grading Export or Import	0-1,000		C.Y.	\$ 30.50	\$ -
5		1,001-20,000		C.Y.	\$ 23.97	\$ -
6		> 20,000		C.Y.	\$ 13.07	\$ -
7	Clearing and Grubbing		78462	S.F.	\$ 0.49	\$ 38,446.38
8	Erosion Control	Sand/Gravel Bag	100	EA.	\$ 3.27	\$ 327.00
9		Jute Mat (not as independent BMP)		S.F.	\$ 0.44	\$ -
10		Straw Mat		S.F.	\$ 0.30	\$ -
11		Straw Bales		EA.	\$ 5.45	\$ -
12		Silt Fence	1350	L.F.	\$ 1.74	\$ 2,349.00
13		Fiber Rolls	1600	L.F.	\$ 3.27	\$ 5,232.00
14		Wood Fiber Mat		S.F.	\$ 0.27	\$ -
15		Coconut Fiber Mat		S.F.	\$ 0.44	\$ -
16		Hydro-Seed	2400	S.F.	\$ 0.35	\$ 840.00
17		Bonded Fiber Matrix		S.F.	\$ 0.09	\$ -
18	Guar Binder		S.F.	\$ 0.03	\$ -	
19	Sub Drain	4-6"		L.F.	\$ 32.68	\$ -
20		8"		L.F.	\$ 38.13	\$ -
21	Sub Drain Headwall			EA.	\$ 2,723.29	\$ -
22	Wall, Retaining	Masonry		S.F.	\$ 49.03	\$ -
23		Cast-in-place		C.Y.	\$ 735.29	\$ -
24		Gravity		S.F.	\$ 32.68	\$ -
25		Crib		S.F.	\$ 0.44	\$ -
	OTHER					
26	STABILIZED CONST. ENTRANCE		960	S.F.	\$ 8.66	\$ 8,313.60
27	INLET PROTECTION		5	EA.	\$ 247.50	\$ 1,237.50
28						\$ -
29						\$ -
30						\$ -
31						\$ -
32						\$ -
33						\$ -
TOTAL EARTHWORK COSTS						\$ 79,617.98



Engineer's Cost Estimate

ENGINEER'S COST ESTIMATE STORM DRAIN SECTION

(Insert information only in shaded cells)

SITE ADDRESS:

OTAY RANCH ~ MU-1
0 SANTA CAROLINA RD.
CHULA VISTA, CA 91913

Grading Work Order No. GR230016
Improvement Work Order No. 0
Map Work Order No. 0
DWG No. 23046
Company Job No. 77222.2

ENGINEERING COMPANY:

SB&O, INC.
3990 RUFFIN ROAD, STE 120
SAN DIEGO, CA 92123
(858) 560-1141

Original Date: 45215
Revised Date: 0
Revised Date: 0
Revised Date: 0
Current Date: 45215

ITEM NO.	ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
1	AC Spillway	D-22		EA.	\$ 348.58	\$ -
2	Box Culvert	P.C.C.		C.Y.	\$ 1,198.25	\$ -
3	Catch Basin	Type G (D-8)		EA.	\$ 5,228.72	\$ -
4		Type F (D-7)		EA.	\$ 4,901.92	\$ -
5		Type I (D-29)		EA.	\$ 5,228.72	\$ -
6	Catch Basin 18"x18"	Brooks Box (PVT)		EA.	\$ 272.33	\$ -
7	Catch Basin 24"x24"	Brooks (PVT)		EA.	\$ 435.72	\$ -
8	Cleanouts	Type A (D-9)		EA.	\$ 4,901.92	\$ -
9	(Storm Drain)	Type B (D-10)		EA.	\$ 5,446.58	\$ -
10	Concrete	Structural		C.Y.	\$ 708.05	\$ -
11	Concrete Energy Dissipater	D-41		EA.	\$ 8,932.39	\$ -
12	Concrete Lug	D-63		EA.	\$ 1,198.25	\$ -
13	Concrete Pipe Collar	D-62		EA.	\$ 2,723.29	\$ -
14	Culvert (Reinforced Concrete Pipe, PCP)	12"		L.F.	\$ 59.92	\$ -
15		18"		L.F.	\$ 103.49	\$ -
16		24"		L.F.	\$ 119.82	\$ -
17		30"		L.F.	\$ 130.72	\$ -
18		36"		L.F.	\$ 157.96	\$ -
19		42"		L.F.	\$ 179.75	\$ -
20		48"		L.F.	\$ 190.63	\$ -
21		54"		L.F.	\$ 217.86	\$ -
22		60"		L.F.	\$ 277.78	\$ -
23		72"		L.F.	\$ 315.90	\$ -
24	Culvert (PVC Pipe)	4"-6"		L.F.	\$ 21.79	\$ -
25		8"-12"		L.F.	\$ 38.13	\$ -
26		18"		L.F.	\$ 70.81	\$ -
27		24"		L.F.	\$ 87.14	\$ -
28		30"		L.F.	\$ 98.04	\$ -
29		36"		L.F.	\$ 152.51	\$ -
30	42"		L.F.	\$ 174.29	\$ -	
31	Culvert (HDPE Pipe)	12"		L.F.	\$ 21.79	\$ -
32		18"	31	L.F.	\$ 70.81	\$ 2,195.11
33		24"		L.F.	\$ 87.14	\$ -
34		30"		L.F.	\$ 98.04	\$ -
35		36"		L.F.	\$ 152.51	\$ -
36		42"		L.F.	\$ 174.29	\$ -
37	48"		L.F.	\$ 196.07	\$ -	
38	Culvert (CMP Pipe)	12"		L.F.	\$ 21.79	\$ -
39		18"		L.F.	\$ 38.13	\$ -
40		24"		L.F.	\$ 70.81	\$ -
41		30"		L.F.	\$ 87.14	\$ -
42		36"		L.F.	\$ 98.04	\$ -
43		42"		L.F.	\$ 108.93	\$ -
44	48"		L.F.	\$ 130.72	\$ -	
45	Curb Inlet	Type A (D-1)		EA.	\$ 5,989.05	\$ -

46		Type B (D-2)	1	EA.	\$ 5,989.05	\$ 5,989.05
47		Type C (D-3)		EA.	\$ 6,588.18	\$ -
48	Curb Outlet	Type A (D-25)		EA.	\$ 2,723.29	\$ -
49	Underdrain Pipe	D-27		EA.	\$ 544.65	\$ -
50	Curtain Wall	D-38		EA.	\$ 653.59	\$ -
51		D-72		EA.	\$ 707.37	\$ -
52	Drainage Channel	P.C.C. (D-70 & D-71)		L.F.	\$ 1,116.56	\$ -
53	Drainage Ditch	D-75		L.F.	\$ 27.24	\$ -
54	HEC-2 Study and FEMA Revision			L.S.	\$ 32,679.48	\$ -
55	Headwalls	Gravity Type (<60")		EA.	\$ 4,084.93	\$ -
56		Gravity Type (>60")		EA.	\$ 7,788.61	\$ -
57		Wing Type (<60")		EA.	\$ 5,882.30	\$ -
58		Wing Type (>60")		EA.	\$ 8,714.53	\$ -
59	Inlet Apron	D-39		EA.	\$ 2,124.16	\$ -
60	Pipe Collar	D-62		EA.	\$ 2,723.29	\$ -
61	Rip Rap (Energy Dissipater)	D-40 (.25 Ton)		C.Y.	\$ 163.40	\$ -
62		D-40 (.50 Ton)		C.Y.	\$ 174.29	\$ -
63		D-40 (1.0 Ton)		C.Y.	\$ 185.18	\$ -
64		D-40 (2.0 Ton)		C.Y.	\$ 196.07	\$ -
65		D-40 (4.0 Ton)		C.Y.	\$ 217.86	\$ -
	OTHER					
66						\$ -
67						\$ -
68						\$ -
69						\$ -
70						\$ -
71						\$ -
72						\$ -
73						\$ -
TOTAL STORM DRAIN COSTS						\$ 8,184.16