

**PROJECT'S COST ESTIMATE  
TITLE SHEET**

FILE NO: \_\_\_\_\_

PROJECT NAME: \_\_\_\_\_

OWNER'S NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE #: (      ) \_\_\_\_\_

FAX #: (      ) \_\_\_\_\_

E-MAIL ADDRESS: \_\_\_\_\_

ENGINEERING FIRM: \_\_\_\_\_

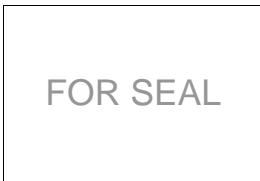
ADDRESS: \_\_\_\_\_

CONTACT PERSON: \_\_\_\_\_

PHONE #: (      ) \_\_\_\_\_

FAX #: (      ) \_\_\_\_\_

E-MAIL ADDRESS: \_\_\_\_\_



ENGINEER'S SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

PRINT NAME \_\_\_\_\_ RCE \_\_\_\_\_ EXP. \_\_\_\_\_

Grading Plan Number: \_\_\_\_\_

No. of Sheets: \_\_\_\_\_ \$0.00

Grading Plan Total Estimate w/ 15% Contingency

Erosion Control Plan Number: \_\_\_\_\_

No. of Sheets: \_\_\_\_\_ \$0.00

Erosion Control Estimate w/ 15% Contingency

Improvement Plan Number: \_\_\_\_\_

No. of Sheets: \_\_\_\_\_ \$0.00

Improvement Plan Estimate w/ 15% Contingency

Earthwork and Drainage \_\_\_\_\_ \$0.00

(From Grading Plan Cost Estimate ) Total From Sections 1 & 2

APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

# PROJECT COST ESTIMATE PROCESS

PROJECT NAME: Enter the approved project name per the conditions of approval for the project or the project title listed on the title block of the plans if no conditions exist

FILE NO: Enter the associated project numbers as it is shown on the conditions of approval for the project or as assigned by the engineering front counter if no conditions

OWNER'S NAME: Properties legal Owner/Developer name

ADDRESS: Owner's/Developer's mailing address

PHONE #: Owner's/Developer's phone number

FAX #: Owner's/Developer's fax number

E-MAIL ADDRESS: Owner's/Developer's e-mail address

ENGINEERING FIRM: Name of the engineering firm processing the plans

ADDRESS: Firm's mailing address

CONTACT PERSON: Name of the engineer of work or the contact person within the firm

PHONE #: Contact person's phone number

FAX #: Contact person's fax number

E-MAIL ADDRESS: Contact person's e-mail address

Engineer's Signature: Engineer of work must stamp, sign, date, print name, and add his/her RCE no. and expiration date

Plan Drawing Number: Enter the plan number for each type of plan associated with the cost estimate. Plan numbers are assigned by the front desk staff during the first submittal

No. of Sheets: Total number of sheets included in each type of plan submitted

Estimate w/ 15% Contingency: Total the cost of all items of work for a plan, including 15% contingency

A project cost estimate shall include; a title sheet, separate cost estimate for grading plan, improvement plan and erosion control plan. Attached is the City standard Format for submitting project cost estimate. The attached form may not include all the items in proposed plans.

On rare occasions there are Public Improvements included in the grading plan and there is no separate Improvement Plan for the project. The Public Improvement items should be shown separately on the Improvement Plan cost estimate. This total should be shown on the Public Improvement item on Title Sheet.

The engineer of work is responsible for including all items of work on the associated plans, including those not shown on the estimate. In the case where items are not shown, the engineer of work shall estimate the cost.

When the project estimate has been approved the front counter staff will send a bond and fee letter to the Owner/Developer listing all fees and securities that are required to be paid and posted prior to approval and signing of the plans.

# COST ESTIMATE EROSION CONTROL

ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
GRAVEL BAG		EA	\$1.10	\$0.00
JUTE BAG		SF	\$0.40	\$0.00
STRAW MAT		SF	\$0.28	\$0.00
STRAW BALES		EA	\$5.00	\$0.00
SILT FENCE		LF	\$1.60	\$0.00
FIBER ROLLS		LF	\$2.25	\$0.00
FIBER MATT		SF	\$0.40	\$0.00
HYDRO-SEED		SF	\$0.20	\$0.00
HYDRAULIC MULCH		SF	\$0.30	\$0.00
STABILIZED CONSTRUCTION ENTRANCE		SF	\$5.25	\$0.00
CONCRETE WASHOUT		EA	\$500.00	\$0.00
INLET PROTECTION (SEDIMENT)		EA	\$150.00	\$0.00
<b>SUBTOTAL:</b>				<b>\$0.00</b>
<b>Contingencies - 15%:</b>				<b>\$0.00</b>
<b>TOTAL COST ESTIMATE EROSION CONTROL:</b>				<b>\$0.00</b>

# COST ESTIMATE GRADING PLAN

ALL STANDARD DRAWINGS ARE PER SAN DIEGO REGIONAL STANDARD DRAWING (SDRSD) UNLESS OTHERWISE NOTED AS CITY (CITY OF OCEANSIDE STANDARD DRAWING)

ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
<b>SECTION 1 - EARTHWORK</b>				
CLEAR AND GRUB		SF	\$0.45	\$0.00
CONTAMINATED SOIL REMOVAL EXCAVATE AND EXPORT		CY	\$105.00	\$0.00
0-1,000		CY	\$27.50	\$0.00
1,001-20,000		CY	\$22.00	\$0.00
20,001-100,000		CY	\$16.50	\$0.00
100,001-350,000		CY	\$11.00	\$0.00
>350,000		CY	\$7.15	\$0.00
EXCAVATE AND FILL				
0-1000		CY	\$20.00	\$0.00
1,001-20,000		CY	\$11.50	\$0.00
>20,000		CY	\$6.50	\$0.00
IMPORT AND FILL				
0-1000		CY	\$28.00	\$0.00
1,001-20,000		CY	\$22.00	\$0.00
>20,000		CY	\$12.00	\$0.00
SUB DRAIN (4" DIAMETER)		LF	\$28.00	\$0.00
SUB DRAIN (6" DIAMETER)		LF	\$30.00	\$0.00
SUB DRAIN (8" DIAMETER)		LF	\$35.00	\$0.00
SUBDRAIN HEADWALL		EA	\$2,500.00	\$0.00
<b>SECTION 2 - PRIVATE DRAINAGE</b>				
<b>PRIVATE STORM DRAIN</b>				
4"-6" PVC STORM DRAIN		LF	\$20.00	\$0.00
8"-12" PVC STORM DRAIN		LF	\$30.00	\$0.00
15" PVC STORM DRAIN		LF	\$35.00	\$0.00
18" PVC STORM DRAIN		LF	\$71.00	\$0.00
24" PVC STORM DRAIN		LF	\$80.00	\$0.00
30" PVC STORM DRAIN		LF	\$91.00	\$0.00
36" PVC STORM DRAIN		LF	\$105.00	\$0.00
42" PVC STORM DRAIN		LF	\$120.00	\$0.00
48" PVC STORM DRAIN		LF	\$135.00	\$0.00
12" RCP STORM DRAIN		LF	\$60.00	\$0.00
18" RCP STORM DRAIN		LF	\$95.00	\$0.00
24" RCP STORM DRAIN		LF	\$110.00	\$0.00
30" RCP STORM DRAIN		LF	\$120.00	\$0.00
36" RCP STORM DRAIN		LF	\$145.00	\$0.00
42" RCP STORM DRAIN		LF	\$165.00	\$0.00
48" RCP STORM DRAIN		LF	\$175.00	\$0.00
54" RCP STORM DRAIN		LF	\$200.00	\$0.00
60" RCP STORM DRAIN		LF	\$255.00	\$0.00
72" RCP STORM DRAIN		LF	\$285.00	\$0.00
<b>MISCELLANEOUS PRIVATE DRAINAGE</b>				
AC SPILLWAY (D-22)		EA	\$320.00	\$0.00
PCC BOX CULVERT		CY	\$1,100.00	\$0.00
CATCH BASIN, PER D-7 (TYPE F)		EA	\$3,550.00	\$0.00
CATCH BASIN, PER D-8 (TYPE G)		EA	\$3,900.00	\$0.00
CLEAN OUT, PER D-9 (TYPE A)		EA	\$3,980.00	\$0.00
CLEAN OUT, PER D-10 (TYPE B)		EA	\$4,500.00	\$0.00
CATCH BASIN, PER D-29 (TYPE I)		EA	\$3,850.00	\$0.00
CONCRETE (STRUCTURAL)		CY	\$550.00	\$0.00
CONCRETE ENERGY DISSIPATER, PER D-41		EA	\$8,200.00	\$0.00
CONCRETE LUG, PER D-63		EA	\$1,200.00	\$0.00

**MISCELLANEOUS PRIVATE DRAINAGE (CONTINUE):**

CONCRETE PIPE COLLAR, PER D-62		EA	\$2,500.00	\$0.00
CURB INLET, PER D-1 (TYPE A)		EA	\$3,850.00	\$0.00
CURB INLET, PER D-2 (TYPE B)		EA	\$3,850.00	\$0.00
CURB INLET, PER D-3 (TYPE C)		EA	\$4,500.00	\$0.00
CURB INLET, PER D-4 (TYPE D)		EA	\$3,550.00	\$0.00
CURB INLET, PER D-45 (TYPE J)		EA	\$3,550.00	\$0.00
CURB OUTLET, PER D-25 (TYPE A)		EA	\$2,500.00	\$0.00
CURB OUTLET-SIDEWALK UNDER DRAIN, PER D-27		EA	\$500.00	\$0.00
CURTAIN WALL, PER D-38		EA	\$600.00	\$0.00
CUTOFF WALL, PER D-72		EA	\$475.00	\$0.00
PCC DRAINAGE CHANNEL, PER D-70 & 71		LF	\$650.00	\$0.00
DRAINAGE DITCH, PER D-75		LF	\$15.00	\$0.00
STRAIGHT HEAD WALL PER D-30&31 (TYPE A)		EA	\$3,000.00	\$0.00
STRAIGHT HEAD WALL PER D-32&33 (TYPE A-GRAVITY)		EA	\$2,700.00	\$0.00
WING/U TYPE HEAD WALL PER D-34/35A&B (18" TO 36"/36" TO 60")		EA	\$4,300.00	\$0.00
WING/U TYPE HEAD WALL PER D-35A&B (60" TO 84")		EA	\$4,600.00	\$0.00
L TYPE HEADWALL PER D-36 & 37		EA	\$4,100.00	\$0.00
INLET APRON, PER D-39		EA	\$1,600.00	\$0.00
RIP RAP, PER D-40 (2 TON)		EA	\$2,500.00	\$0.00
RIP RAP, PER D-40 (0.25 - 1.00 TON)		EA	\$2,100.00	\$0.00
RIP RAP, PER D-40 (NO. 2 BACKING)		EA	\$1,750.00	\$0.00
RIP RAP, PER D-40 (2.0 TON)		CY	\$180.00	\$0.00
RIP RAP, PER D-40 (4.0 TON)		CY	\$200.00	\$0.00
CONNECT TO EXISTING S.D.		EA	\$1,000.00	\$0.00
CDS UNIT (SMALL)		EA	\$20,000.00	\$0.00
CDS UNIT (MEDIUM)		EA	\$35,000.00	\$0.00
CDS UNIT (LARGE)		EA	\$70,000.00	\$0.00
BIO-SWALE		LF	\$5.50	\$0.00
12"X12" BOX INLET (PVT)		EA	\$1,500.00	\$0.00
18"X18" BOX INLET (PVT)		EA	\$2,500.00	\$0.00
24"X24" BOX INLET (PVT)		EA	\$2,750.00	\$0.00
FILTER INSERT		EA	\$2,500.00	\$0.00
3' RIBBON GUTTER		LF	\$10.00	\$0.00
<b>SUBTOTAL:</b>				<b>\$0.00</b>
<b>15% Contingencies:</b>				<b>\$0.00</b>
<b>TOTAL OF SECTIONS 1 &amp; 2:</b>				<b>\$0.00</b>
<b>SECTION 3 - PRIVATE CURB AND GUTTER, SIDEWALK AND CURB RAMP</b>				
MEDIAN CURB & GUTTER, PER G-6 (TYPE B-1)		LF	\$12.00	\$0.00
MEDIAN CURB & GUTTER, PER G-6 (TYPE B-2)		LF	\$20.00	\$0.00
6" CURB & GUTTER, PER G-2 (TYPE G)		LF	\$20.00	\$0.00
8" CURB & GUTTER, PER G-2 (TYPE G)		LF	\$24.00	\$0.00
6" CURB & GUTTER, PER G-2 (TYPE H)		LF	\$25.00	\$0.00
8" CURB & GUTTER, PER G-2 (TYPE H)		LF	\$30.00	\$0.00
ROLLED CURB, PER G-4		LF	\$26.00	\$0.00
4" AC BERM, PER G-5		LF	\$8.00	\$0.00
6" AC BERM, PER G-5		LF	\$9.50	\$0.00
8" AC BERM, PER G-5		LF	\$11.00	\$0.00
6" OR 8" CURB PER G-1 (CURB ONLY)		LF	\$12.00	\$0.00
6" OR 8" CURB PER G-1 (CURB & GUTTER)		LF	\$22.00	\$0.00
CURB RAMPS, PER G-27 (TYPE A & B NEW CONSTRUCTION)		EA	\$1,400.00	\$0.00
CURB RAMPS, PER G-28, G-29 (TYPE A-1 & B-1 & C, EXISTING SIDEWALK)		EA	\$2,200.00	\$0.00
4' PCC SIDEWALK, PER G-7				
	0-5,000	SF	\$5.00	\$0.00
	>5,000	SF	\$4.00	\$0.00

<b><u>PRIVATE PAVEMENT</u></b>				
AC PAVING (1" SURFACE)		SF	\$0.75	\$0.00
AC PAVING (2" SURFACE)		SF	\$1.00	\$0.00
AC PAVING (3" SURFACE)		SF	\$1.30	\$0.00
AC PAVING (4" SURFACE)		SF	\$1.75	\$0.00
AC PAVING (5" SURFACE)		SF	\$2.15	\$0.00
CLASS II AGGREGATE BASE PAVING (6" SURFACE)		SF	\$1.05	\$0.00
CLASS II AGGREGATE BASE PAVING (8" SURFACE)		SF	\$1.25	\$0.00
CLASS II AGGREGATE BASE PAVING (12" SURFACE)		SF	\$1.60	\$0.00
CLASS II AGGREGATE BASE PAVING (14" SURFACE)		SF	\$1.65	\$0.00
CLASS II AGGREGATE BASE PAVING (16" SURFACE)		SF	\$1.75	\$0.00
CLASS II AGGREGATE BASE PAVING (18+" SURFACE)		SF	\$1.85	\$0.00
PCC PAVING (5" THICK)		SF	\$5.00	\$0.00
PCC PAVING (5.5" THICK)		SF	\$5.50	\$0.00
PCC PAVING (6" THICK)		SF	\$6.00	\$0.00
PCC PAVING (8" THICK)		SF	\$6.50	\$0.00
PCC PAVING (9" THICK)		SF	\$7.50	\$0.00
PAVING SUBGRADE PREPARATION		SF	\$0.50	\$0.00
AC PAVEMENT REMOVAL		SF	\$2.00	\$0.00
<b><u>SECTION 4 - MISCELLANEOUS PRIVATE ITEMS</u></b>				
MASONRY RETAINING WALL (ALL WALLS OVER 4' IN HEIGHT)		SF	\$29.65	\$0.00
SHORING (FOR SYSTEMS UTILIZED TO EXCAVATE GROUND AND ARE NOT PART OF THE PERMANENT FOUNDATION)		SF	\$25.00	\$0.00
<b><u>SECTION 5 - PRIVATE WASTEWATER UTILITIES</u></b>				
CONCRETE ANCHOR, PER S-9		LF	\$1,262.00	\$0.00
SEWER MANHOLE, PER CITY S-6 (3'X5')		EA	\$3,585.00	\$0.00
SEWER MANHOLE, PER CITY S-6 (3'X5' W/LOCKING COVER)		EA	\$4,407.00	\$0.00
SEWER MANHOLE, PER CITY S-6 (3'X5' W/LINER)		EA	\$5,525.00	\$0.00
SEWER MANHOLE, PER CITY S-6 (3'X5' W/LINER & LOCKING COVER)		EA	\$6,347.00	\$0.00
SEWER MANHOLE, PER CITY S-5 (3'X4')		EA	\$3,175.00	\$0.00
SEWER MANHOLE, PER CITY S-5 (3'X4' W/LOCKING COVER)		EA	\$4,500.00	\$0.00
SEWER MANHOLE, PER CITY S-5 (3'X4' W/LINER)		EA	\$3,997.00	\$0.00
SEWER MANHOLE, PER CITY S-5 (3'X4' W/LINER & LOCKING COVER)		EA	\$5,322.00	\$0.00
SEWER LOCKING COVER, PER M-4		EA	\$822.15	\$0.00
4" PRESSURE PVC SEWER		EA	\$52.70	\$0.00
6" PRESSURE PVC SEWER		EA	\$71.75	\$0.00
STREET SEWER LATERAL, PER CITY S-3 (4")		EA	\$1,335.00	\$0.00
STREET SEWER LATERAL, PER CITY S-3 (6")		EA	\$2,510.00	\$0.00
STREET SEWER LATERAL, PER CITY S-3 (8")		EA	\$3,685.00	\$0.00
ALLEY SEWER LATERAL, PER CITY S-3 (4")		EA	\$1,117.00	\$0.00
ALLEY SEWER LATERAL, PER CITY S-3 (6")		EA	\$1,700.00	\$0.00
4" PVC SEWER MAIN, PER City S-2		LF	\$51.50	\$0.00
6" PVC SEWER MAIN, PER City S-2		LF	\$61.85	\$0.00
8" PVC SEWER MAIN, PER City S-2		LF	\$72.20	\$0.00
10" PVC SEWER MAIN, PER City S-2		LF	\$80.43	\$0.00
12" PVC SEWER MAIN, PER City S-2		LF	\$88.65	\$0.00
15" PVC SEWER MAIN, PER City S-2		LF	\$97.90	\$0.00
18" PVC SEWER MAIN, PER City S-2		LF	\$108.05	\$0.00
21" PVC SEWER MAIN, PER City S-2		LF	\$117.25	\$0.00
24" PVC SEWER MAIN, PER City S-2		LF	\$124.90	\$0.00
27" PVC SEWER MAIN, PER City S-2		LF	\$133.10	\$0.00

**PRIVATE WASTEWATER CONTINUE**

30" PVC SEWER MAIN, PER City S-2		LF	\$140.75	\$0.00
36" PVC SEWER MAIN, PER City S-2		LF	\$156.00	\$0.00
16" STEEL CASING PER CITY S-8		LF	\$97.50	\$0.00
19" STEEL CASING PER CITY S-8		LF	\$125.00	\$0.00
21" STEEL CASING PER CITY S-8		LF	\$142.00	\$0.00
24" STEEL CASING PER CITY S-8		LF	\$161.00	\$0.00
30" STEEL CASING PER CITY S-8		LF	\$187.00	\$0.00
42" STEEL CASING PER CITY S-8		LF	\$259.00	\$0.00
48" STEEL CASING CITY PER S-8		LF	\$286.00	\$0.00
SEWER PUMP STATION (MULTIPLE UNITS)		EA	\$250,000.00	\$0.00
39" STEEL CASING CITY PER S-8		LF	\$225.00	\$0.00
33" STEEL CASING PER CITY S-8		LF	\$198.00	\$0.00
36" STEEL CASING CITY PER S-8		LF	\$212.00	\$0.00

**SECTION 6 - PRIVATE WATER UTILITIES**

**PRIVATE WATER VALVES**

4" GATE VALVE		EA	\$550.00	\$0.00
6" GATE VALVE		EA	\$1,000.00	\$0.00
8" GATE VALVE		EA	\$1,800.00	\$0.00
10" GATE VALVE		EA	\$2,850.00	\$0.00
12" GATE VALVE		EA	\$3,700.00	\$0.00
16" GATE VALVE		EA	\$4,650.00	\$0.00
20" GATE VALVE		EA	\$5,900.00	\$0.00
8" PRESSURE REDUCER W/BOX		EA	\$9,820.00	\$0.00
AIR RELEASE VALVE, (1") PER CITY W-3		EA	\$1,550.00	\$0.00
AIR RELEASE VALVE, (2") PER CITY W-3		EA	\$2,200.00	\$0.00
BLOW-OFF ASSEMBLY, PER CITY W-2		EA	\$1,875.00	\$0.00
RELOCATE FIRE HYDRANT		EA	\$2,200.00	\$0.00
FIRE HYDRANT ASSY PER CITY W-1( 2-WAY)		EA	\$3,500.00	\$0.00
FIRE HYDRANT ASSY PER CITY W-1( 3-WAY)		EA	\$4,000.00	\$0.00
THRUST BLOCK, PER CITY W-27		SF	\$175.00	\$0.00

**PRIVATE PVC WATER MAINS**

4" PVC WATER MAIN PER WP-2		LF	\$38.00	\$0.00
6" PVC WATER MAIN PER WP-2		LF	\$50.00	\$0.00
8" PVC WATER MAIN PER WP-2		LF	\$58.00	\$0.00
10" PVC WATER MAIN PER WP-2		LF	\$63.00	\$0.00
12" PVC WATER MAIN PER WP-2		LF	\$70.00	\$0.00
16" PVC WATER MAIN PER WP-2		LF	\$89.00	\$0.00
20: PVC WATER MAIN PER WP-2		LF	\$100.00	\$0.00

**PRIVATE WATER SERVICE**

1" WTR SERV. PER CITY W-4		EA	\$2,267.00	\$0.00
2" WTR SERV. PER CITY W-5		EA	\$2,453.00	\$0.00

**SUBTOTAL: \$0.00**

**Contingencies - 15%: \$0.00**

**TOTAL OF SECTIONS 3-6: \$0.00**

**TOTAL COST OF GRADING PLAN: \$0.00**

# COST ESTIMATE IMPROVEMENT PLAN

ALL STANDARD DRAWINGS ARE PER SAN DIEGO REGIONAL STANDARD DRAWING (SDRSD) UNLESS OTHERWISE NOTED AS CITY (CITY OF OCEANSIDE STANDARD DRAWING)

ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
<b><u>SECTION 1 - EARTHWORK</u></b>				
EXCAVATE AND EXPORT				
0-1,000		CY	\$27.50	\$0.00
1,001-20,000		CY	\$22.00	\$0.00
20,001-100,000		CY	\$16.50	\$0.00
100,001-350,000		CY	\$11.00	\$0.00
>350,000		CY	\$7.15	\$0.00
EXCAVATE AND FILL				
0-1000		CY	\$20.00	\$0.00
1,001-20,000		CY	\$11.50	\$0.00
>20,000		CY	\$6.50	\$0.00
IMPORT AND FILL				
0-1000		CY	\$28.00	\$0.00
1,001-20,000		CY	\$22.00	\$0.00
>20,000		CY	\$12.00	\$0.00
<b><u>SECTION 2 - PUBLIC DRAINAGE</u></b>				
<b><u>PUBLIC STORM DRAIN</u></b>				
18" RCP STORM DRAIN		LF	\$95.00	\$0.00
24" RCP STORM DRAIN		LF	\$110.00	\$0.00
30" RCP STORM DRAIN		LF	\$120.00	\$0.00
36" RCP STORM DRAIN		LF	\$145.00	\$0.00
42" RCP STORM DRAIN		LF	\$165.00	\$0.00
48" RCP STORM DRAIN		LF	\$175.00	\$0.00
54" RCP STORM DRAIN		LF	\$200.00	\$0.00
60" RCP STORM DRAIN		LF	\$255.00	\$0.00
72" RCP STORM DRAIN		LF	\$285.00	\$0.00
18" RCP STORM DRAIN (WATER TIGHT JOINTS)		LF	\$99.75	\$0.00



**SECTION 2 - PUBLIC DRAINAGE (CONTINUE):**

24" RCP STORM DRAIN (WATER TIGHT JOINTS)		LF	\$115.50	\$0.00
36" RCP STORM DRAIN (WATER TIGHT JOINTS)		LF	\$152.25	\$0.00
42" RCP STORM DRAIN (WATER TIGHT JOINTS)		LF	\$173.25	\$0.00
48" RCP STORM DRAIN (WATER TIGHT JOINTS)		LF	\$183.75	\$0.00
54" RCP STORM DRAIN (WATER TIGHT JOINTS)		LF	\$210.00	\$0.00
60" RCP STORM DRAIN (WATER TIGHT JOINTS)		LF	\$267.75	\$0.00
72" RCP STORM DRAIN (WATER TIGHT JOINTS)		LF	\$299.25	\$0.00

**MISCELLANEOUS PUBLIC DRAINAGE**

AC SPILLWAY (D-22)		EA	\$320.00	\$0.00
PCC BOX CULVERT		CY	\$1,100.00	\$0.00
CATCH BASIN, PER D-7 (TYPE F)		EA	\$3,550.00	\$0.00
CATCH BASIN, PER D-8 (TYPE G)		EA	\$3,900.00	\$0.00
CLEAN OUT, PER D-9 (TYPE A)		EA	\$3,980.00	\$0.00
CLEAN OUT, PER D-10 (TYPE B)		EA	\$4,500.00	\$0.00
CATCH BASIN, PER D-29 (TYPE I)		EA	\$3,850.00	\$0.00
CONCRETE (STRUCTURAL)		CY	\$550.00	\$0.00
CONCRETE ENERGY DISSIPATER, PER D-41		EA	\$8,200.00	\$0.00
CONCRETE LUG, PER D-63		EA	\$1,200.00	\$0.00
CONCRETE PIPE COLLAR, PER D-62		EA	\$2,500.00	\$0.00
CURB INLET, PER D-1 (TYPE A)		EA	\$3,850.00	\$0.00
CURB INLET, PER D-2 (TYPE B)		EA	\$3,850.00	\$0.00
CURB INLET, PER D-3 (TYPE C)		EA	\$4,500.00	\$0.00
CURB INLET, PER D-45 (TYPE J)		EA	\$3,550.00	\$0.00
CURB OUTLET, PER D-25 (TYPE A)		EA	\$2,500.00	\$0.00
CURB OUTLET-SIDEWALK UNDER DRAIN, PER D-27		EA	\$500.00	\$0.00
CURTAIN WALL, PER D-38		EA	\$600.00	\$0.00
CUTOFF WALL, PER D-72		EA	\$475.00	\$0.00
PCC DRAINAGE CHANNEL, PER D-70 & 71		LF	\$650.00	\$0.00
DRAINAGE DITCH, PER D-75		LF	\$15.00	\$0.00
STRAIGHT HEAD WALL PER D-30 & 31 (TYPE A)		EA	\$3,000.00	\$0.00
STRAIGHT HEAD WALL PER D-32 & 33 (TYPE A-GRAVITY)		EA	\$2,700.00	\$0.00
WING/U TYPE HEAD WALL PER D-34/35 A & B (18" TO 36"/36" TO 60")		EA	\$4,300.00	\$0.00
WING/U TYPE HEAD WALL PER D-35 A & B (60" TO 84")		EA	\$4,600.00	\$0.00
L TYPE HEADWALL PER D-36 & 37		EA	\$4,100.00	\$0.00
INLET APRON, PER D-39		EA	\$1,600.00	\$0.00
CONCRETE ENERGY DISSIPATER, PER D-41		EA	\$8,200.00	\$0.00
RIP RAP, PER D-40 (2 TON)		EA	\$2,500.00	\$0.00

**MISCELLANEOUS PUBLIC DRAINAGE (CONTINUE):**

RIP RAP, PER D-40 (0.25 - 1.0 TON)		EA	\$2,100.00	\$0.00
RIP RAP, PER D-40 (NO. 2 BACKING)		EA	\$1,750.00	\$0.00
CONCRETE LUG D-63		EA	\$200.00	\$0.00

**SECTION 3 - PUBLIC SURFACE IMPROVEMENTS****PUBLIC CURB AND GUTTER**

CURB & GUTTER REMOVAL		LF	\$3.00	\$0.00
MEDIAN CURB & GUTTER, PER G-6 (TYPE B-1)		LF	\$12.00	\$0.00
MEDIAN CURB & GUTTER, PER G-6 (TYPE B-2)		LF	\$20.00	\$0.00
6" CURB & GUTTER PER G-2 (TYPE G)		LF	\$20.00	\$0.00
8" CURB & GUTTER PER G-2 (TYPE G)		LF	\$24.00	\$0.00
6" CURB & GUTTER PER G-2 (TYPE H)		LF	\$25.00	\$0.00
8" CURB & GUTTER PER G-2 (TYPE H)		LF	\$30.00	\$0.00
ROLLED CURB, PER G-4		LF	\$26.00	\$0.00
4" AC BERM, PER G-5		LF	\$8.00	\$0.00
6" AC BERM, PER G-5		LF	\$9.50	\$0.00
8" AC BERM, PER G-5		LF	\$11.00	\$0.00

**PUBLIC PAVEMENT**

AC PAVING (1" SURFACE)		SF	\$0.75	\$0.00
AC PAVING (2" SURFACE)		SF	\$1.00	\$0.00
AC PAVING (3" SURFACE)		SF	\$1.30	\$0.00
AC PAVING (4" SURFACE)		SF	\$1.75	\$0.00
AC PAVING (5" SURFACE)		SF	\$2.15	\$0.00
CLASS II AGGREGATE BASE PAVING (6" SURFACE)		SF	\$1.05	\$0.00
CLASS II AGGREGATE BASE PAVING (8" SURFACE)		SF	\$1.25	\$0.00
CLASS II AGGREGATE BASE PAVING (12" SURFACE)		SF	\$1.60	\$0.00
CLASS II AGGREGATE BASE PAVING (14" SURFACE)		SF	\$1.65	\$0.00
CLASS II AGGREGATE BASE PAVING (16" SURFACE)		SF	\$1.75	\$0.00
CLASS II AGGREGATE BASE PAVING (18+" SURFACE)		SF	\$1.85	\$0.00
PCC PAVING (5" THICK)		SF	\$5.00	\$0.00
PCC PAVING (5.5" THICK)		SF	\$5.50	\$0.00
PCC PAVING (6" THICK)		SF	\$6.00	\$0.00
PCC PAVING (8" THICK)		SF	\$6.50	\$0.00
PCC PAVING (9" THICK)		SF	\$7.50	\$0.00
PAVING SUBGRADE PREPARATION		SF	\$0.50	\$0.00
AC PAVEMENT REMOVAL		SF	\$2.00	\$0.00

**PUBLIC CURB RAMPS & SIDEWALK**

CURB RAMPS, PER G27 (TYPE A & B, NEW CONSTRUCTION)		EA	\$1,400.00	\$0.00
CURB RAMPS, PER G-28, G-29 (TYPE A-1, B-1 & C, EXIST SIDEWALK)		EA	\$2,200.00	\$0.00
CURB RAMPS, ALLEY, PER G-31 (TYPE D)		EA	\$1,600.00	\$0.00
SIDEWALK REMOVAL		SF	\$1.50	\$0.00
4" PCC SIDEWALK, PER G-7				
	0-5,000	SF	\$5.00	\$0.00
	>5,000	SF	\$4.00	\$0.00

**MISCELLANEOUS PUBLIC SURFACE IMPROVEMENTS**

CUT-OFF WALL @ END OF PAVEMENT, PER G-22 & 23		EA	\$1,000.00	\$0.00
CROSS-GUTTER, PER G-12 & 13, CITY M-8		SF	\$8.00	\$0.00
DRIVEWAY, PER G-14A,B,C & G-26		SF	\$7.00	\$0.00
TRENCH RESURFACING, PER CITY M-2, M-3, A,B,C		LF	\$25.00	\$0.00
NARROW TRENCHING, CITY M-2, M-3, A,B,C		LF	\$11.50	\$0.00
AC OVERLAY (1"-2")		SF	\$0.45	\$0.00
AC SLURRY SEAL		SF	\$0.60	\$0.00
ALLEY APRON, PER G-17		SF	\$7.00	\$0.00
ADJUST TO GRADE		EA	\$1,000.00	\$0.00
AGGREGATE BASE (AB)		SF	\$1.00	\$0.00
MEDIAN PCC, (DECORATIVE)		SF	\$11.00	\$0.00
MEDIAN PCC, (STAMPED CONCRETE)		SF	\$8.00	\$0.00
MEDIAN PCC, (INTERLOCKING PAVERS)		SF	\$12.00	\$0.00
GRIND & OVERLAY		SF	\$2.50	\$0.00

**SECTION 4- MISCELLANEOUS PUBLIC IMPROVEMENTS****MISCELLANEOUS PUBLIC ITEMS**

VEHICULAR BRIDGE		SF	\$275.00	\$0.00
PEDESTRIAN BRIDGE		SF	\$250.00	\$0.00
CRASH CUSHION (G.R.E.A.T.)		EA	\$36,800.00	\$0.00
EXCAVATION (FOR STRUCTURES)		CY	\$31.00	\$0.00
FENCE, PER M-6 (4' HIGH CHAIN LINK)		LF	\$12.50	\$0.00
FENCE, PER M-6 (5' HIGH CHAIN LINK)		LF	\$14.00	\$0.00
FENCE, PER M-6 (6' HIGH CHAIN LINK)		LF	\$16.00	\$0.00
GUARD RAIL METAL BEAM, PER M-3-38		LF	\$30.00	\$0.00
GUARD RAIL POST, PER M-9		EA	\$240.00	\$0.00
GUARD BARRICADE, PER M-9		EA	\$450.00	\$0.00
PCC MEDIAN BARRIER (TYPE 50)		EA	\$55.00	\$0.00
SAW CUT EXISTING (AC/PCC)		LF	\$4.00	\$0.00

TRENCH SHORING (5'-10' DEEP)		LF	\$11.20	\$0.00
<b><u>SECTION 4- MISCELLANEOUS PUBLIC IMPROVEMENTS (CONTINUE):</u></b>				
TRENCH SHORING (11'-15' DEEP)		LF	\$17.40	\$0.00
TRENCH SHORING (16'-20' DEEP)		LF	\$25.00	\$0.00
SURVEY MONUMENT, PER M-10		EA	\$800.00	\$0.00
RETAINING WALL (ALL WALLS OVER 4' IN HEIGHT)		SF	\$29.65	\$0.00
PEDESTRIAN BARRICADE		EA	\$150.00	\$0.00
<b><u>SECTION 5 - PUBLIC TRAFFIC</u></b>				
<b><u>TRAFFIC CONTROLS</u></b>				
DETECTOR LOOPS		EA	\$450.00	\$0.00
PULL BOX, PER (ALL TYPES)		EA	\$260.00	\$0.00
PULL BOX, RELOCATION		EA	\$400.00	\$0.00
REMOVE STRIPING		LF	\$3.00	\$0.00
STREET LIGHT, E-2 L.P. SODIUM- PER CITY STANDARDS		EA	\$6,000.00	\$0.00
STANDARDS		EA	\$6,000.00	\$0.00
STREET NAME SIGN, CITY T-3		EA	\$400.00	\$0.00
STREET STRIPING				
	0-4000'	LF	\$0.65	\$0.00
	>4,000'	LF	\$0.50	\$0.00
TRAFFIC SIGNAL (2X2 INTERSECTION)		LS	\$105,000.00	\$0.00
TRAFFIC SIGNAL (4X2 INTERSECTION)		LS	\$115,000.00	\$0.00
TRAFFIC SIGNAL (4X4 INTERSECTION)		LS	\$120,000.00	\$0.00
TRAFFIC SIGNAL (4X6 INTERSECTION)		LS	\$130,000.00	\$0.00
TRAFFIC SIGNAL (6X6 INTERSECTION)		LS	\$140,000.00	\$0.00
TRAFFIC SIGNAL (8X6 INTERSECTION)		LS	\$230,000.00	\$0.00
TRAFFIC SIGNAL INTERCONNECTION		LF	\$15.00	\$0.00
BIKE LANE SIGNING AND STRIPING		MI	\$2,000.00	\$0.00
<b><u>SECTION 6- PUBLIC WASTEWATER UTILITIES</u></b>				
<b><u>PUBLIC WASTEWATER</u></b>				
CONCRETE ANCHOR		LF	\$1,262.00	\$0.00
SEWER MANHOLE, PER CITY S-6 (3'X5')		EA	\$3,585.00	\$0.00
SEWER MANHOLE, PER CITY S-6 (3'X5' W/LOCKING COVER)		EA	\$4,407.00	\$0.00
SEWER MANHOLE, PER CITY S-6 (3'X5' W/LINER)		EA	\$5,525.00	\$0.00
SEWER MANHOLE, PER CITY S-6 (3'X5' W/LINER & LOCKING COVER)		EA	\$6,347.00	\$0.00
SEWER MANHOLE, PER CITY S-5 (3'X4')		EA	\$3,175.00	\$0.00
SEWER MANHOLE, PER CITY S-5 (3'X4' W/LOCKING COVER)		EA	\$4,500.00	\$0.00
SEWER MANHOLE, PER CITY S-5 (3'X4' W/LINER)		EA	\$3,997.00	\$0.00

**PUBLIC WASTEWATER (CONTINUE):**

SEWER MANHOLE, PER CITY S-5 (3'X4' W/LINER & LOCKING COVER)		EA	\$5,322.00	\$0.00
SEWER LOCKING COVER, PER M-4		EA	\$822.15	\$0.00
4" PRESSURE PVC SEWER		EA	\$52.70	\$0.00
6" PRESSURE PVC SEWER		EA	\$71.75	\$0.00
STREET SEWER LATERAL, PER CITY S-3 (4")		EA	\$1,335.00	\$0.00
STREET SEWER LATERAL, PER CITY S-3 (6")		EA	\$2,510.00	\$0.00
STREET SEWER LATERAL, PER CITY S-3 (8")		EA	\$3,685.00	\$0.00
ALLEY SEWER LATERAL, PER CITY S-3 (4")		EA	\$1,117.00	\$0.00
ALLEY SEWER LATERAL, PER CITY S-3 (6")		EA	\$1,700.00	\$0.00
8" PVC SEWER MAIN, PER City S-2		LF	\$72.20	\$0.00
10" PVC SEWER MAIN, PER City S-2		LF	\$79.90	\$0.00
12" PVC SEWER MAIN, PER City S-2		LF	\$88.65	\$0.00
15" PVC SEWER MAIN, PER City S-2		LF	\$97.90	\$0.00
18" PVC SEWER MAIN, PER City S-2		LF	\$108.05	\$0.00
21" PVC SEWER MAIN, PER City S-2		LF	\$117.25	\$0.00
24" PVC SEWER MAIN, PER City S-2		LF	\$124.90	\$0.00
27" PVC SEWER MAIN, PER City S-2		LF	\$133.10	\$0.00
16" STEEL CASING CITY S-8		LF	\$97.50	\$0.00
19" STEEL CASING CITY S-8		LF	\$125.00	\$0.00
21" STEEL CASING CITY S-8		LF	\$142.00	\$0.00
24" STEEL CASING CITY S-8		LF	\$161.00	\$0.00
30" STEEL CASING CITY S-8		LF	\$187.00	\$0.00
33" STEEL CASING CITY S-8		LF	\$198.00	\$0.00
36" STEEL CASING CITY S-8		LF	\$212.00	\$0.00
39" STEEL CASING CITY S-8		LF	\$225.00	\$0.00
42" STEEL CASING CITY S-8		LF	\$259.00	\$0.00
48" STEEL CASING CITY S-8		LF	\$286.00	\$0.00
52" STEEL CASING		LF	\$313.00	\$0.00
60" STEEL CASING		LF	\$360.00	\$0.00
SEWER PUMP STATION		EA	\$250,000.00	\$0.00

**SECTION 7- PUBLIC WATER UTILITIES****PUBLIC WATER**

AIR RELEASE VALVE, (2") PER CITY W-3		EA	\$2,200.00	\$0.00
BLOW-OFF ASSEMBLY, PER CITY W-2		EA	\$1,875.00	\$0.00
RELOCATE FIRE HYDRANT		EA	\$2,200.00	\$0.00
FIRE HYDRANT ASSY PER CITY W-1( 2-WAY)		EA	\$3,500.00	\$0.00
FIRE HYDRANT ASSY PER CITY W-1( 3-WAY)		EA	\$4,000.00	\$0.00
THRUST BLOCK, PER CITY W-27		SF	\$175.00	\$0.00

**PUBLIC WATER VALVES**

4" GATE VALVE		EA	\$550.00	\$0.00
6" GATE VALVE		EA	\$1,000.00	\$0.00
8" GATE VALVE		EA	\$1,800.00	\$0.00
10" GATE VALVE		EA	\$2,850.00	\$0.00
12" GATE VALVE		EA	\$3,700.00	\$0.00
16" GATE VALVE		EA	\$4,650.00	\$0.00
20" GATE VALVE		EA	\$5,900.00	\$0.00
8" PRESSURE REDUCER W/BOX		EA	\$9,820.00	\$0.00

**PUBLIC PVC WATER MAINS**

8" PVC WATER MAIN PER WP-2		LF	\$58.00	\$0.00
10" PVC WATER MAIN PER WP-2		LF	\$63.00	\$0.00
12" PVC WATER MAIN PER WP-2		LF	\$70.00	\$0.00
16" PVC WATER MAIN PER WP-2		LF	\$89.00	\$0.00
20" PVC WATER MAIN PER WP-2		LF	\$100.00	\$0.00

**PUBLIC WATER SERVICE**

1" WTR SERV. PER CITY W-4		EA	\$2,267.00	\$0.00
2" WTR SERV. PER CITY W-5		EA	\$3,183.00	\$0.00

**SUBTOTAL: \$0.00**

**Contingencies - 15%: \$0.00**

**TOTAL COST ESTIMATE FOR IMPROVEMENT PLAN: \$0.00**