

APPENDIX D

COST ESTIMATES, INSTITUTIONAL CONTROLS

TABLE D-1

**APPROXIMATE COSTS FOR FENCING
PRELIMINARY SCREENING FOR ALL SECTORS
FORMER CAMP ELLIOTT (EAST ELLIOTT)**

Footage (from [Figure 2-1](#)):

Sector 1 Perimeter:	27,000 ft
Sector 2 Perimeter:	22,500 ft
Sector 3 Perimeter:	23,000 ft
Sector 4 Perimeter:	36,600 ft
Total East Elliot Perimeter:	49,300 ft

Capital/O&M Costs:

Installation:	\$25/ lf (4-person crew to advance 350 ft/ day) ^a
Brush Clearance:	\$1/ lf along fence line (5 person crew to advance 1,200 feet/day at \$1,200/ day) ^b
OE Avoidance:	\$3/ lf (2 person crew to advance 350 feet/ day at \$1,060/ day) ^b
Survey:	\$9,500 to \$15,200 per site ^c
Signs:	\$3,300 to 4,700 per site ^d
Maintenance:	Replace 5% of fence and signs each year for 30 years

Total cost for 30 years (not calculated for net present worth):

Sector 1 Perimeter:	\$1,600,000
Sector 2 Perimeter:	\$1,300,000
Sector 3 Perimeter:	\$1,300,000
Sector 4 Perimeter:	\$2,100,000
Total East Elliot Perimeter:	\$2,800,000

ft feet or foot

lf linear feet

a. Source: American Fence Company, Santee, CA. Assumes installation in steep, rough terrain

b. Source : CMS Environmental Inc., Tampa, FL.

c. Price quote from Hunter Surveying, Inc, Orangevale, CA. Assumes field progress of 2,500 feet per day and two days per sector to acquire relevant property documents, locate monuments, etc.

d. Source: Fastsigns, San Diego, CA

TABLE D-2

**APPROXIMATE COSTS FOR WARNING SIGNS
PRELIMINARY SCREENING FOR ALL SECTORS
FORMER CAMP ELLIOTT (EAST ELLIOTT)**

Number of Signs (see [Section 4.3.2](#)):

Sector 1:	15
Sector 2:	15
Sector 3:	13
Sector 4:	38
Total East Elliot:	46 (assumes all sectors receive signs)

Capital/O&M Costs:

Development/Procurement	\$1,000 ^a
Manufacture	\$30 per sign ^b
Installation:	\$113 per sign (2-person crew to advance 8 signs per day) ^c
OE Avoidance:	\$130 per sign (2-person crew to advance 8 signs per day at \$1,060 day) ^d
Maintenance:	Replace 10% of signs each year for 30 years at \$165 per sign for manufacture and installation ^e .

Total cost for 30 years (not calculated for net present worth):

Sector 1 :	\$13,000
Sector 2:	\$13,000
Sector 3:	\$12,000
Sector 4:	\$31,000
Total East Elliot:	\$37,000

- Assumes approximate 16-hour effort for professional grade employee develop and obtain approval for sign content and a 4-hour effort to procure manufacture.
- Source: Fastsigns, San Diego, CA. Assumes \$20 ea. to manufacture 18" x 24" signs, colored letters on white background. T-posts for mounting \$10 each.
- Source: Phaedrus Sign Services, San Diego, CA. Assumes 0.5 hours per sign installation, 0.25 hours travel between locations, and 0.5 hours apportioned to each sign for mobilization and general oversight. \$90/hour for two-man crew including equipment. No per diem (local crew).
- Source : CMS Environmental Inc., Tampa, FL.
- Total maintenance of signs at \$495 per sign and post over 30 years.

TABLE D-3

**APPROXIMATE COSTS FOR PRELIMINARY SCREENING FOR
DISPLAY BOARDS - ALL SECTORS
FORMER CAMP ELLIOTT (EAST ELLIOTT)**

Number of Display Boards (see [Section 4.3.2](#)):

Sector 1:	1
Sector 2:	2
Sector 3:	1
Sector 4:	9
Total East Elliot:	12 (assumes all sectors receive boards)

Capital/O&M Costs:

Development/Procurement:	\$4,400 ^a
Manufacture:	\$1,200 per board ^b
Installation:	\$540 per board (2-person crew to advance 2 boards per day) ^c
OE Avoidance:	\$530 per board (2-person crew to advance 2 boards per day at \$1,060 day) ^c
Maintenance:	Replace each board three times over 30 years at \$1,740 per display board for manufacture and installation. Replace board covers six times over 30 years at \$325 per board cover for manufacture and installation. ^e

Total cost for 30 years (not calculated for net present worth):

Sector 1 :	\$15,000
Sector 2:	\$24,000
Sector 3:	\$15,000
Sector 4:	\$90,000
Total East Elliot:	\$118,000

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- Assumes approximate 10 day effort for professional grade employee develop and obtain approval for sign content and a 1-day effort to procure manufacture.
 - Source: Fastsigns, San Diego, CA. Approximate 4x 6 foot display board with plexiglas cover.
 - Source: Phaedrus Sign Services, San Diego, CA. Assumes 3 hours per display board installation, 3 hours mobilization, travel, and oversight. \$90/hour for two-man crew including equipment. No per diem (local crew).
 - Source : CMS Environmental Inc., Tampa, FL.
 - Total maintenance of signs at \$7,170 per display board over 30 years.

TABLE D-4

**APPROXIMATE COSTS FOR AWARENESS TRAINING
PRELIMINARY SCREENING FOR ALL SECTORS
FORMER CAMP ELLIOTT (EAST ELLIOTT)**

Development of Training	\$4,000 per course ^a
Production of Visual Aids	\$250 per course ^b
Coordination and Presentation of Training	\$1,700 per training session ^c

Total cost for 30 years (assumes one training session per year; not calculated for net present worth):

\$56,000

- a. Development of awareness training for landfill employees and interested visitors. Assumes some materials available from CEHNC. Other materials developed in 80 hours (MWA professional pay grade rate of \$50/hr). Total = \$4,000.
- b. Assumes small number of overheads will be produced for course (\$250).
- c. Assumes one trip to San Diego per year for 30 years. Eight hours at senior professional grade (\$75/hr) per trip. \$400 travel costs per trip. Annual reproduction of relevant awareness training documents for period of 30 years at cost of \$200/yr.. Assumes \$500/yr. for period of 30 years for coordination of meeting venue, logistics.

TABLE D-5

**ASSUMPTIONS REGARDING COST ESTIMATES FOR INSTITUTIONAL CONTROLS
FORMER CAMP ELLIOTT (EAST ELLIOTT)**

(Page 1 of 3)

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- (a) Subtotals rounded up to the nearest \$100.
 - (b) Totals rounded up to the nearest \$1,000.
 - (c) Number of warning signs based on observations made during site visits, anecdotal information on site use, and review of orthographic maps furnished by the County of San Diego. Signs were proposed for major entrances to the sector, major trail intersections, and known areas of high site use.
 - (d) Assumes approximate 2-day effort of professional grade MWA employee to develop and get approval for sign content (16 hours x \$50/hr).
 - (e) Assumes approximate 1/2 day effort of professional grade MWA employee to procure sign manufacture (4 hours x \$50/hr).
 - (f) Assumes \$20 ea. to manufacture 18" x 24" signs, colored letters on white background. T-posts for mounting \$10 each. Source: Fastsigns, San Diego.
 - (g) Assumes 0.5 hours per sign installation, 0.25 hours travel between locations, and 0.5 hours apportioned to each sign for mobilization and general oversight. \$90/hour for two-man crew including equipment. No per diem (local crew). Source: Phaedrus Sign Services, San Diego.
 - (h) Assumes two-person OE avoidance crew working with sign installer at burdened rate of \$90/hr, or \$720/day (Doug Ralston, CMS). Assumes additional per diem, vehicle and equipment charges \$340/day. Crew advances 8 signs per day (see (f) above).
 - (i) Number of display boards based on observations made during site visits, anecdotal information on site use, and review of orthographic maps furnished by the County of San Diego. Display boards were proposed known areas of high site use.
 - (j) Assumes approximate 10-day effort of professional grade MWA employee to develop and get approval for display board content (80 hours x \$50/hr).
 - (k) Assumes approximate 1 day effort of professional grade MWA employee to procure display board manufacture (8 hours x \$50/hr).
 - (l) Assumes \$1,200 to construct 4' x 6' display board with text and graphic content. With Plexiglas cover. Source: Fastsigns, San Diego .
 - (m) Assumes 3 hours per display board installation, 3 hours mobilization, travel, and oversight. \$90/hour for two-man crew including equipment. No per diem (local crew). Source: Phaedrus Sign Services, San Diego.
 - (n) Assumes two-person OE avoidance crew working with display board installer at burdened rate of \$90/hr, or \$720/day (Doug Ralston, CMS). Assumes additional per diem, vehicle and equipment charges \$340/day.

TABLE D-5

**ASSUMPTIONS REGARDING COST ESTIMATES FOR INSTITUTIONAL CONTROLS
FORMER CAMP ELLIOTT (EAST ELLIOTT)**

(Page 2 of 3)

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- (o) Assumes 20 hours time for OE avoidance crew procurement (MWA senior professional grade rate of \$75/hr) and 10 hours coordination with OE avoidance crew (MWA professional grade rate of \$50/hr). Total = \$2,000.
 - (p) Development of awareness training for landfill employees and interested visitors. Assumes some materials available from CEHNC. Other materials developed in 80 hours (MWA professional pay grade rate of \$50/hr). Total = \$4,000.
 - (q) Assumes small number of overheads will have to be produced (\$250).
 - (r) Assumes replacing 10% of the signs and posts every year for 30 years, or 3 events per sign. Assumes installation at 1.5 hours/sign @ \$90/hr and unit costs of \$30 per sign. Total maintenance of signs at \$495 per sign and post over 30 years. No per diem (local crew).
 - (s) Assumes replacing display board Plexiglas cover 6 times (\$100 ea.) during 30 year period. Assumes replacement time of 3 hours/cover at \$90/hr. No per diem (local crew). Total maintenance of covers at \$1,950 per board over 30 years.
 - (t) Assumes replacing display board 3x (\$1,200 ea.) during 30 year period. Assumes replacement time of 6 hours/board at \$90/hr No per diem (local crew). Total maintenance of boards at \$5,220 per board over 30 years.
 - (u) Assumes annual reproduction of relevant awareness training documents for period of 30 years at cost of \$200/yr.
 - (v) Assumes coordination of meeting venue, logistics, etc. Assumes \$500/yr. for period of 30 years
 - (w) Assumes one trip to San Diego per year for 30 years. 8 hours at senior professional. grade (\$75/hr) per trip. \$400 travel costs per trip.
 - (x) Contingency allowances are added to direct costs to account for unforeseen circumstances that may result in additional costs. Examples include variable site conditions, such as degree of brush removal required, impacts of steep terrain, limited vehicle access, etc. According to the Remedial Action Costing Procedures Manual ([USEPA, 1987](#)), contingency allowances typically range from 15 to 25 percent of the total capital costs. Because site conditions at East Elliott are variable, a contingency allowance of 25 percent was assumed for the purposes of these estimates.
 - (y) Project administration includes costs for legal services, procurement, contract oversight, and administration incurred by CEHNC and/or CESPL during the implementation of each action. Based on Montgomery Watson's previous experience with remedial actions and construction projects, project administration costs are assumed to be 15 percent of the total capital costs.
 - (z) Costs for easements for display boards and warning signs are from Richard Guthrie of CESPL and are based on administrative effort to acquire easement from willing land owner, plus costs of site survey, title, assessment, etc. as required by law.
 - (aa) Assumes a \$2,000 easement fee paid to owner for 30-year life of project (Richard Guthrie of CESPL).

TABLE D-5

**ASSUMPTIONS REGARDING COST ESTIMATES FOR INSTITUTIONAL CONTROLS
FORMER CAMP ELLIOTT (EAST ELLIOTT)**

(Page 3 of 3)

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- (ab) Deed notification costs are based on 165 parcels in East Elliott: The notice will require 12 hours to prepare the notice (\$70/hr billing rate); 4 hours of legal review (\$200/hr billing rate); and 32 hours to issue letters of intent to the owners by mail, and submit the notices to the San Diego County Recorder's office and local title companies (\$50/hr billing rate). Notarizing fee for the filed documents is \$10 per notice. County filing fee is \$7 per notice.
- (ac) Assumes that a baseline for monitoring erosion control will be established upon the completion of the removal action in each sector. Includes production of a base map showing drainages, landslides, and other erosion feature; establishment of photopoints; and production of baseline photos for comparison to future monitoring events. Estimated effort is \$15,000 for initial erosion survey and preparation of materials.
- (ad) Assumes one questionnaire developed and distributed to 1,000 local residents every 5 year. 8 hours of questionnaire development (\$70/hr). 16 hours to update mailing list and distribute (\$50/hr). 24 hours to compile results (\$50/hr) (assumes 200 responses). \$1.00 for postage (forward and return) and reproduction for questionnaires.
- (ae) Assumes 1 legal notice per year for first 5 years and 1 every two years thereafter. Total of 17 submittals. Each submittal will be a 1/8 page notice in the San Diego Union-Tribune for one edition of the weekday paper and one edition of the Sunday paper. Publication costs are \$2,260 per notice (both days). Preparation of the legal notice is 10 hours of preparation (\$70/hr) and 2 hours of legal review (\$200/hr) per submittal.
- (af) Assumes 1 printing of 1,000 brochures per year for first 5 years and 1 printing of 1,000 brochures every two years thereafter. Total of 17 submittals. Each brochure consists of four-color printing of text and figures on one sheet of 8-1/2 x 11-inch glossy paper, folded in thirds. 24 hours development time for each brochure (\$70/hr). Production costs of \$1,700 per printing are from RPL Graphics of Walnut Creek, California. Assumes 8 hours to distribute to local schools, agencies, parks, etc.
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TABLE D-6

**ESTIMATED COSTS FOR SECTOR 1
ALTERNATIVE 2, INSTITUTIONAL CONTROLS
FORMER CAMP ELLIOTT (EAST ELLIOTT)
(Page 1 of 2)**

Item/Description	Unit	Unit Cost	Quantity	Subtotal (a)	Total (b)
INITIAL COSTS					
Development of Institutional Control Plan	lump	\$15,000	1	\$15,000	
<u>Warning Signs (c)</u>					
Development of Content (d)	lump	\$800	1	\$800	
Procurement (e)	lump	\$200	1	\$200	
Manufacture (f)	each	\$30	15	\$500	
Installation (g)	each	\$113	15	\$1,700	
UXO Avoidance (h)	day	\$1,060	2	\$2,200	
Warning Sign Easement (z)	each	\$13,000	15	\$195,000	
<u>Display Boards (i)</u>					
Development of Content (j)	lump	\$4,000	1	\$4,000	
Procurement (k)	lump	\$400	1	\$400	
Manufacture (l)	each	\$1,200	1	\$1,200	
Installation (m)	each	\$540	1	\$600	
UXO Avoidance (n)	day	\$1,060	1	\$1,100	
UXO Avoidance Procure. and Coord. (o)	lump	\$2,000	1	\$2,000	
Display Board Easement (z)	each	\$13,000	1	\$13,000	
TOTAL INITIAL COST					\$238,000
RECURRING COSTS					
Repl. of Warning Signs (r)	3 events/sign/30 yr	\$495	15	\$7,500	
Repl. of Display Board Covers (s)	6 events/board/30 yr	\$1,950	1	\$2,000	
Repl. of Display Boards (t)	3 events/board/30 yr	\$5,220	1	\$5,300	
Fee for Board and Sign Easements (aa)	1 fee/item/30 yrs	\$2,000	16	\$32,000	
NET PRESENT WORTH OF RECURRING COSTS (30 YEARS, 7% DISCOUNT RATE)					\$20,000

TABLE D-6

**ESTIMATED COSTS FOR SECTOR 1
ALTERNATIVE 2, INSTITUTIONAL CONTROLS
FORMER CAMP ELLIOTT (EAST ELLIOTT)
(Page 2 of 2)**

Item/Description	Unit	Unit Cost	Quantity	Subtotal (a)	Total (b)
INITIAL COSTS					\$238,000
RECURRING COST SUBTOTAL (NET PRESENT WORTH)					\$20,000
Contingency (25% of Initial and Recurring Costs) (x)					\$64,500
Project Administration (15% of Initial, Recurring, and Contingency Costs) (y)					\$48,400
Contractor's Overhead and Profit (20% of Initial and Recurring Costs)					\$51,600
TOTAL COST OF REMEDIAL ALTERNATIVE (NET PRESENT WORTH)					\$423,000

TABLE D-7

ESTIMATED COSTS FOR SECTOR 2
 ALTERNATIVE 2, INSTITUTIONAL CONTROLS
 FORMER CAMP ELLIOTT (EAST ELLIOTT)

(Page 1 of 2)

Item/Description	Unit	Unit Cost	Quantity	Subtotal (a)	Total (b)
Initial Costs					
Development of Institutional Control Plan	lump	\$15,000	1	\$15,000	
<u>Warning Signs (c)</u>					
Development of Content (d)	lump	\$800	1	\$800	
Procurement (e)	lump	\$200	1	\$200	
Manufacture (f)	each	\$30	15	\$500	
Installation (g)	each	\$113	15	\$1,700	
UXO Avoidance (h)	day	\$1,060	2	\$2,200	
Warning Sign Easement (z)	each	\$13,000	15	\$195,000	
<u>Display Boards (i)</u>					
Development of Content (j)	lump	\$4,000	1	\$4,000	
Procurement (k)	lump	\$400	1	\$400	
Manufacture (l)	each	\$1,200	2	\$2,400	
Installation (m)	each	\$540	2	\$1,100	
UXO Avoidance (n)	day	\$1,060	1	\$1,100	
UXO Avoidance Procure. and Coord. (o)	lump	\$2,000	1	\$2,000	
Display Board Easement (z)	each	\$13,000	2	\$26,000	
<u>Awareness Training</u>					
Development (p)	lump	\$4,000	1	\$4,000	
Production of Visual Aids (q)	lump	\$250	1	\$300	
TOTAL INITIAL COST					\$257,000

TABLE D-7

**ESTIMATED COSTS FOR SECTOR 2
ALTERNATIVE 2, INSTITUTIONAL CONTROLS
FORMER CAMP ELLIOTT (EAST ELLIOTT)**

(Page 2 of 2)

Item/Description	Unit	Unit Cost	Quantity	Subtotal (a)	Total (b)
RECURRING COSTS (Period of 30 Years)					
Repl. of Warning Signs (r)	3 events/sign/30 yr	\$495	15	\$7,500	
Repl. of Display Board Covers (s)	6 events/board/30 yr	\$1,950	2	\$3,900	
Repl. of Display Boards (t)	3 events/board/30 yr	\$5,220	2	\$10,500	
Publ. of Awareness Training Mtls (u)	year	\$200	30	\$6,000	
Coord. of Awareness Train. Meetings (v)	year	\$500	30	\$15,000	
Presentation of Awareness Meetings (w)	year	\$1,000	30	\$30,000	
Fee for Board and Sign Easements (aa)	1 fee/item/30 yrs	\$2,000	17	\$34,000	
NET PRESENT WORTH OF RECURRING COSTS (30 YEARS, 7% DISCOUNT RATE)					\$45,000
INITIAL COST SUBTOTAL					\$257,000
RECURRING COST SUBTOTAL (NET PRESENT WORTH)					\$45,000
Contingency (25% of Initial and Recurring Costs) (x)					\$75,500
Project Administration (15% of Initial, Recurring, and Contingency Costs) (y)					\$56,700
Contractor's Overhead and Profit (20% of Initial and Recurring Costs)					\$60,400
TOTAL COST OF REMEDIAL ALTERNATIVE (NET PRESENT WORTH)					\$495,000

TABLE D-8

**ESTIMATED COSTS FOR SECTOR 3
ALTERNATIVE 2, INSTITUTIONAL CONTROLS
FORMER CAMP ELLIOTT (EAST ELLIOTT)**

(Page 1 of 2)

Item/Description	Unit	Unit Cost	Quantity	Subtotal (a)	Total (b)
INITIAL COSTS					
Development of Institutional Control Plan	lump	\$15,000	1	\$15,000	
<u>Warning Signs (c)</u>					
Development of Content (d)	lump	\$800	1	\$800	
Procurement (e)	lump	\$200	1	\$200	
Manufacture (f)	each	\$30	13	\$400	
Installation (g)	each	\$113	13	\$1,500	
UXO Avoidance (h)	day	\$1,060	2	\$2,200	
Warning Sign Easement (z)	each	\$13,000	13	\$169,000	
<u>Display Boards (i)</u>					
Development of Content (j)	lump	\$4,000	1	\$4,000	
Procurement (k)	lump	\$400	1	\$400	
Manufacture (l)	each	\$1,200	1	\$1,200	
Installation (m)	each	\$540	1	\$600	
UXO Avoidance (n)	day	\$1,060	1	\$1,100	
UXO Avoidance Procure. and Coord. (o)	lump	\$2,000	1	\$2,000	
Display Board Easement (z)	each	\$13,000	1	\$13,000	
TOTAL INITIAL COST					\$212,000
RECURRING COSTS					
Repl. of Warning Signs (r)	3 events/sign/30 yr	\$495	13	\$6,500	
Repl. of Display Board Covers (s)	6 events/board/30 yr	\$1,950	1	\$2,000	
Repl. of Display Boards (t)	3 events/board/30 yr	\$5,220	1	\$5,300	
Fee for Board and Sign Easements (aa)	1 fee/item/30 yrs	\$2,000	14	\$28,000	
NET PRESENT WORTH OF RECURRING COSTS (30 YEARS, 7% DISCOUNT RATE)					\$18,000

TABLE D-8

**ESTIMATED COSTS FOR SECTOR 3
ALTERNATIVE 2, INSTITUTIONAL CONTROLS
FORMER CAMP ELLIOTT (EAST ELLIOTT)**

(Page 2 of 2)

Item/Description	Unit	Unit Cost	Quantity	Subtotal (a)	Total (b)
INITIAL COST SUBTOTAL					\$212,000
RECURRING COST SUBTOTAL (NET PRESENT WORTH)					\$18,000
Contingency (25% of Initial and Recurring Costs) (x)					\$57,500
Project Administration (15% of Initial, Recurring, and Contingency Costs) (y)					\$43,100
Contractor's Overhead and Profit (20% of Initial and Recurring Costs)					\$46,000
TOTAL COST OF REMEDIAL ALTERNATIVE (NET PRESENT WORTH)					\$377,000

TABLE D-9

ESTIMATED COSTS FOR SECTOR 4
 ALTERNATIVE 2, INSTITUTIONAL CONTROLS
 FORMER CAMP ELLIOTT (EAST ELLIOTT)

(Page 1 of 2)

Item/Description	Unit	Unit Cost	Quantity	Subtotal (a)	Total (b)
Initial Costs					
Development of Institutional Control Plan	lump	\$15,000	1	\$15,000	
<u>Warning Signs (c)</u>					
Development of Content (d)	lump	\$800	1	\$800	
Procurement (e)	lump	\$200	1	\$200	
Manufacture (f)	each	\$30	38	\$1,200	
Installation (g)	each	\$113	38	\$4,300	
UXO Avoidance (h)	day	\$1,060	5	\$5,300	
Warning Sign Easement (z)	each	\$13,000	38	\$494,000	
<u>Display Boards (i)</u>					
Development of Content (j)	lump	\$4,000	1	\$4,000	
Procurement (k)	lump	\$1,500	1	\$1,500	
Manufacture (l)	each	\$1,200	9	\$10,800	
Installation (m)	each	\$540	9	\$4,900	
UXO Avoidance (n)	day	\$1,060	5	\$5,300	
UXO Avoidance Procure. and Coord. (o)	lump	\$2,000	1	\$2,000	
Display Board Easement (z)	each	\$13,000	9	\$117,000	
<u>Awareness Training</u>					
Development (p)	lump	\$4,000	1	\$4,000	
Production of Visual Aids (q)	lump	\$250	1	\$300	
TOTAL INITIAL COST					\$671,000

TABLE D-9
ESTIMATED COSTS FOR SECTOR 4
ALTERNATIVE 2, INSTITUTIONAL CONTROLS
FORMER CAMP ELLIOTT (EAST ELLIOTT)
(Page 2 of 2)

Item/Description	Unit	Unit Cost	Quantity	Subtotal (a)	Total (b)
RECURRING COSTS					
Repl. of Warning Signs- 30 yrs. (r)	3 events/sign/30 yr	\$495	38	\$18,900	
Repl. of Display Board Covers- 30 yrs. (s)	6 events/board/30 yr	\$1,950	9	\$17,600	
Repl. of Display Boards-30 yrs.(t)	3 events/board/30 yr	\$5,220	9	\$47,000	
Publ. of Awareness Train. Mtls-30 yrs. (u)	year	\$200	30	\$6,000	
Coord. of Awareness Train. Mtgs-30 yrs. (v)	year	\$500	30	\$15,000	
Present. of Awareness Mtgs-30 yrs. (w)	year	\$1,000	30	\$30,000	
Fee for Board and Sign Easements (aa)	1 fee/item/30 yrs	\$2,000	47	\$94,000	
NET PRESENT WORTH OF RECURRING COSTS (30 YEARS, 7% DISCOUNT RATE)					\$95,000
INITIAL COST SUBTOTAL					\$671,000
RECURRING COST SUBTOTAL (NET PRESENT WORTH)					\$95,000
Contingency (25% of Initial and Recurring Costs) (x)					\$191,500
Project Administration (15% of Initial, Recurring, and Contingency Costs) (y)					\$143,700
Contractor's Overhead and Profit (20% of Initial and Recurring Costs)					\$153,200
TOTAL COST OF REMEDIAL ALTERNATIVE (NET PRESENT WORTH)					\$1,255,000