

Cottonwood Highlands Filing No. 7, Amendment 1
 Engineer's Estimate of Probable Costs for Public Infrastructure

ROADWAY & STORM IMPROVEMENTS

Date: July 17, 2020

Item Number	Item Description	Estimated Quantity	Unit	Estimated Unit Cost	Subtotal
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I. STORM SEWER SYSTEM IMPROVEMENTS

1	Manholes	21	Each	\$3,500.00	\$73,500
2	Type-R Inlet - 5'	5	Each	\$5,000.00	\$25,000
3	Type-R Inlet - 10'	9	Each	\$6,500.00	\$58,500
4	Type-13 Inlet	5	Each	\$3,500.00	\$17,500
5	Type-C Inlet	3	Each	\$3,500.00	\$10,500
6	8" Area Drain	3	Each	\$1,000.00	\$3,000
7	8" HDPE	201	LF	\$35.00	\$7,035
8	18" RCP	2,213	LF	\$40.00	\$88,520
9	24" RCP	772	LF	\$55.00	\$42,460
10	30" RCP	210	LF	\$65.00	\$13,650
11	42" RCP	128	LF	\$85.00	\$10,880
12	48" RCP	1045	LF	\$100.00	\$104,500

STORM SEWER SYSTEM IMPROVEMENTS SUBTOTAL \$455,045

II. STREET IMPROVEMENTS

1	Roadway Subgrade Preparation (2' Behind Back of Curb)	12,619	SY	\$2.00	\$25,238
2	Roadway Asphalt Pavement (7-inch Full Depth)	11,001	SY	\$24.00	\$264,024
3	Paseo Subgrade Preparation (2' Behind EOP)	6,109	SY	\$2.00	\$12,218
4	Paseo Concrete Pavers (Holland Stone 80mm Herringbone)	5,091	SY	\$25.00	\$127,275
5	Paseo 1" Sand Bed	145	CY	\$10.00	\$1,450
6	Paseo Aggregate Base Course (6" Depth)	850	CY	\$25.00	\$21,250
7	Curb & Gutter (2' Gutter x 4" Mountable Curb)	5,956	LF	\$25.00	\$148,900
8	Curb & Gutter (2' Gutter x 6" Vertical Curb)	-	LF	\$25.00	\$0
9	Curb & Gutter (6" Median)	-	LF	\$25.00	\$0
10	Curb & Gutter (Custom at Paseos)	276	LF	\$25.00	\$6,900
11	Sidewalk Subgrade Preparation (1' each side of walk)	2,998	SY	\$1.80	\$5,396
12	6-inch thick x 5-foot Wide Detached Concrete Sidewalk	26,570	SF	\$4.40	\$116,908
13	Handicap Ramps at Intersections	7	Each	\$3,200.00	\$22,400
14	Mid-block Handicap Ramp	6	Each	\$2,280.00	\$13,680
15	Truncated Domes (2' x 4' Panels)	13	Each	\$750.00	\$9,750
16	Concrete Cross Pan	1	Each	\$750.00	\$750
17	8' Wide Concrete Trail	408	SF	\$8.00	\$3,264
16	Concrete Access Maintenance Path	16,992	SF	\$12.00	\$203,904
17	Sidewalk Chase	1	Each	\$1,500.00	\$1,500

STREET IMPROVEMENTS SUBTOTAL \$984,807

III. SIGNAGE AND STRIPING

1	Stop Signs w/Street Name (30"x30" Stop Sign) (8"x36" Street Name Sign)	17	Each	\$500.00	\$8,500
2	Street Light	4	Each	\$1,500.00	\$6,000
3	Striping	1	Each	\$5,000.00	\$5,000

SIGNAGE AND STRIPING SUBTOTAL \$19,500

PUBLIC IMPROVEMENTS SUBTOTAL \$1,459,352

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MOBILIZATION:

1	Mobilization @ 5%				\$72,968
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SURVEYING:

1	Surveying @ 3%				\$43,781
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CONSTRUCTION MANAGEMENT / TESTING:

1	Construction Management / Testing @ 12%				\$175,122
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CONTINGENCY:

1	Contingency @ 10%				\$145,935
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SUBTOTAL \$437,806

ROADWAY AND DRAINAGE IMPROVEMENTS TOTAL \$1,897,158

SIA SURETY = 110% of ROADWAY AND DRAINAGE IMPROVEMENTS TOTAL \$2,086,874

The opinion of probable construction costs for Cottonwood Highlands Filing No. 7, Amendment 1 was based on approximate quantity estimates for site Civil work based on the Final Road and Storm Drainage Construction Plans prepared by Manhard Consulting dated July 17, 2020.

Quantities were multiplied by current construction industry prices.

The opinion of probable costs shown, and any resulting conclusions on project financial or economic feasibility or funding requirements, have been prepared for guidance in project evaluation and implementation from the information available at the time the opinion was prepared. The final costs of the project and resulting feasibility will depend on actual labor and material costs, competitive market conditions, actual site conditions, final project scope, implementation schedule, continuity of personnel and engineering, and other variable factors. As a result, the project costs will vary from the opinion of the probable costs presented herein.