

**Cottonwood Highlands Filing No. 7, Amendment 1**  
**Engineer's Estimate of Water Improvement Infrastructure**

**WATER IMPROVEMENTS**

Date: March 6, 2020

Item Number	Item Description	Estimated Quantity	Unit	Estimated Unit Cost	Subtotal
<b>WATER IMPROVEMENTS</b>					
1	18in N.P. - Bends w/Kick Block	-	Each	\$700.00	\$0
2	18in N.P. - PVC (Purple) Water Main	-	L.F.	\$50.00	\$0
3	18in N.P. - Gate Valve and Box	-	Each	\$1,600.00	\$0
4	18in N.P. - Plug w/2in Blow Off	-	Each	\$800.00	\$0
5	18in N.P. - Connect to Ex Main	-	Each	\$1,500.00	\$0
6	12in - Bends w/Kick Block	-	Each	\$600.00	\$0
7	12in - PVC Water Main	-	L.F.	\$40.00	\$0
8	12in - Gate Valve and Box	-	Each	\$1,500.00	\$0
9	12in - Plug w/2in Blow Off	-	Each	\$700.00	\$0
10	8in - Bends w/Kick Block	25	Each	\$450.00	\$11,250
11	8in - PVC Water Main	2,871	L.F.	\$36.00	\$103,360
12	8in - Gate Valve and Box	20	Each	\$1,250.00	\$25,000
13	8in - Plug w/2in Blow Off	-	Each	\$550.00	\$0
14	8in - Connect to Ex Main	1	Each	\$1,500.00	\$1,500
15	6in - Bends w/Kick Block	14	Each	\$385.00	\$5,390
16	6in - PVC Water Main	2,630	L.F.	\$34.00	\$89,425
17	6in - Gate Valve and Box	11	Each	\$385.00	\$4,235
18	16in x 12in Tee w/ Kick Block	-	Each	\$600.00	\$0
19	16in x 8in Tee w/ Kick Block	-	Each	\$550.00	\$0
20	16in x 6in Tee w/ Kick Block	-	Each	\$500.00	\$0
21	12in x 8in Tee w/ Kick Block	-	Each	\$500.00	\$0
22	12in x 6in Tee w/ Kick Block	-	Each	\$450.00	\$0
23	8in x 8in Tee w/ Kick Block	5	Each	\$425.00	\$2,125
24	8in x 6in Tee w/ Kick Block	18	Each	\$425.00	\$7,650
25	8in x 8in Cross	-	Each	\$500.00	\$0
26	Std. Fire Hydrant Assy. w/ 6in Gate Valve	13	Each	\$3,800.00	\$49,400
27	3/4in Water Service w/ Meter	132	Each	\$950.00	\$125,400
28	Irrigation Service w/ Meter and Valve	1	Each	\$2,000.00	\$2,000
29	6in x 8in Reducer	1	Each	\$300.00	\$300
30	2in Blow Off at Low Point	1	Each	\$5,500.00	\$5,500
31	Air Release Valve	1	Each	\$5,500.00	\$5,500
<b>SUBTOTAL</b>					<b>\$438,036</b>

**CWSD CONTINGENCY**

1	10% of Water Infrastructure Improvement Costs				<b>\$43,804</b>
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**WATER IMPROVEMENTS TOTAL      \$481,839**

The opinion of probable construction costs for was based on approximate quantity estimates for water main improvements based on the Water Main and Sanitary Sewer Construction Plans prepared by Manhard Consulting dated March 6, 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.