



CITY of HUNTINGTON BEACH
GARFIELD AVENUE FIBER OPTIC INSTALLATION PROJECT
100% ENGINEER'S ESTIMATE



June 17, 2022

Item	Description	Quantity	Unit	Unit Price	Amount
1A	Mobilization	1	LS	\$ 12,000.00	\$ 12,000.00
1B	Caltrans Encroachment Permit Coordination and Traffic Control Plans (Beach Blvd)	1	LS	\$ 6,250.00	\$ 6,250.00
2	Traffic Control	1	LS	\$ 12,000.00	\$ 12,000.00
3	Preparation of Project Specific Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) per Caltrans Involvement	1	LS	\$ 3,200.00	\$ 3,200.00
4	Installation and Maintenance of BMP's per the approved SWPPP and WPCP (for Caltrans)	1	LS	\$ 6,800.00	\$ 6,800.00
5	Furnish and install 2" Sch. 80 PVC conduit, pull tape + tracer wire	3,555	LF	\$ 35.00	\$ 124,425.00
6	Furnish and install No. N40 Pull Box/ Splice Vault	4	EA	\$ 3,200.00	\$ 12,800.00
7	Furnish and install No. 6 Pull Box	8	EA	\$ 1,200.00	\$ 9,600.00
8	Existing pull box to be removed and become the property of the contractor	3	EA	\$ 100.00	\$ 300.00
9	Furnish and install 144 strand Single Mode Fiber Optic Cable, pull tape, and #10 tracer wire in existing/proposed conduit	6,100	LF	\$ 7.50	\$ 45,750.00
10	Furnish and install 12 strand Single Mode Fiber Optic drop cable, pull tape, and #10 tracer wire in existing/proposed conduit	400	LF	\$ 2.25	\$ 900.00
11	Remove and discard existing copper signal interconnect (SIC) cable	1,500	LF	\$ 1.00	\$ 1,500.00
12	Furnish and install underground Fiber Optic Splice Enclosure. Perform splice of fiber optic cable(s)	2	EA	\$ 3,200.00	\$ 6,400.00
13	Modify existing underground fiber optic splice enclosure. Splice existing fiber distribution cable to new fiber optic cable	2	EA	\$ 2,800.00	\$ 5,600.00
14	Furnish and install 12/24 Port Fiber Patch Panel complete. Terminate fiber optic cable	2	EA	\$ 2,400.00	\$ 4,800.00
15	Furnish and install Etherwan Rack Mount Ethernet Switch, SFP modules, power supply and patch cords complete	3	EA	\$ 6,500.00	\$ 19,500.00
16	Furnish and install 2070LX controller with 1C module	3	EA	\$ 5,100.00	\$ 15,300.00
17	Furnish and install CCTV Camera	3	EA	\$ 8,750.00	\$ 26,250.00
18	Perform Traffic Network System Integration	1	LS	\$ 2,000.00	\$ 2,000.00
19	Pothole for utilities (not shown on plans)	10	EA	\$ 1,100.00	\$ 11,000.00
20	Test Network Communications and System Documentation	1	LS	\$ 3,000.00	\$ 3,000.00
21	As-Built Plans	1	LS	\$ 500.00	\$ 500.00
Sub-total (items #1-21):					\$ 329,875.00
10% Contingencies:					\$ 33,000.00
ENGINEER'S ESTIMATE (BASE BID):					\$ 362,900