



## Preliminary Engineer's Cost Estimate

**City:** Huntington Beach

**Project:** Emergency-Vehicle Hybrid Beacon Improvement (Heil Ave FS8)

**Phase:** 60% Submittal

**Date:** 3/3/2023

ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
<b>Signing and Striping Improvements</b>					
1	Remove stripe	290	LF	\$ 1	\$ 290
2	Remove sign panel & post	1	EA	\$ 150	\$ 150
3	Relocate sign panel and post	1	EA	\$ 250	\$ 250
4	Install sign panel & post	4	EA	\$ 300	\$ 1,200
5	Install sign panel	1	EA	\$ 200	\$ 200
6	Install 6" thermoplastic traffic stripe	290	LF	\$ 3	\$ 870
7	Install 12" thermoplastic traffic stripe	120	LF	\$ 4	\$ 480
8	Install thermoplastic pavement marking	252	SF	\$ 8	\$ 2,016
9	Install blue pavement marker	1	EA	\$ 10	\$ 10
<b>Subtotal - Signing and Striping</b>					<b>\$ 5,466</b>
<b>Traffic Signal Improvements</b>					
10	Furnish and install Type 19 standard and foundation complete.	2	EA	\$ 26,000	\$ 52,000
11	Furnish and install momentary push button (MPB), complete with wall mount box, actuation switch, confirmation buzzer, and terminal block to provide fully connectivity and functionality with the traffic signal controller.	1	EA	\$ 3,000	\$ 3,000
12	Furnish and install 332 controller cabinet with 170E controller and foundation complete, as shown on plan.	1	EA	\$ 40,500	\$ 40,500
13	Furnish and install service meter cabinet complete.	1	EA	\$ 7,500	\$ 7,500
14	Furnish and install battery backup system and cabinet complete.	1	EA	\$ 5,000	\$ 5,000
15	Furnish and install #6 pull box.	4	EA	\$ 1,350	\$ 5,400
16	Furnish and install #6 pull box.	4	EA	\$ 1,350	\$ 5,400
17	Furnish and install 2" conduit (Sch 80 PVC).	210	LF	\$ 70	\$ 14,700
18	Furnish and install 3" conduit (Sch 80 PVC).	255	LF	\$ 90	\$ 22,950
19	Furnish and install sign on signal mast arm.	2	EA	\$ 800	\$ 1,600
20	Furnish and install LED Internally Illuminated Street Name Sign (IISNS) on signal mast arm.	2	EA	\$ 3,500	\$ 7,000
21	Intersection wiring	1	LS	\$ 10,000	\$ 10,000
22	Furnish and install single-section vehicle head with 12" green LED lens.	1	EA	\$ 3,000	\$ 3,000
23	Furnish and install emergency vehicle head beacon .	4	EA	\$ 2,000	\$ 8,000
24	Remove existing and construct 4" PCC Sidewalk over 6" AB for traffic signal and pull box installations per City Standard 207	360	SF	\$ 12	\$ 4,320
<b>Subtotal - Traffic Signal</b>					<b>\$ 190,370</b>
<b>Subtotal - All Construction Items</b>					<b>\$ 195,836</b>
-	Mobilization		10%		\$ 20,000
-	Traffic Control		2.5%		\$ 4,896
-	Construction Management		10%		\$ 19,584
<b>Subtotal - Base Bid</b>					<b>\$ 240,316</b>
-	Contingency		10%		\$ 24,032
<b>TOTAL</b>					<b>\$ 264,347</b>