

**NC DOT - Division 12**  
 Alexander, Catawba, Cleveland, Gaston, Iredell & Lincoln Cos.  
 Installation & Modification of Traffic Signals & ITS Systems, Upon Request (Federal Funded)  
 12.1002SM, Etc.  
**Low Bid vs. Engineer's Estimate**  
 Bids Opened: Tuesday, June 13, 2023 at 2:00 p.m.

LINE	SECTION	ITEM DESCRIPTION	QUANTITY	UNIT	Traffic Control Devices, LLC		Original Engineer's Estimate		Revised Engineer's Estimate		% Diff. from Low Bid
					Unit Bid	Amount Bid	Unit Bid	Amount Bid	Unit Bid	Amount Bid	
1	1705	Vehicle Signal Head (12", 1-section)	10	EA	\$678.00	\$6,780.00	\$375.00	\$3,750.00	\$575.00	\$5,750.00	\$0.18
2	1705	Vehicle Signal Head (12", 3-section)	20	EA	\$1,286.00	\$25,720.00	\$925.00	\$18,500.00	\$1,000.00	\$20,000.00	28.80%
3	1705	Vehicle Signal Head (12", 4-section)	20	EA	\$1,590.00	\$31,800.00	\$1,050.00	\$21,000.00	\$1,200.00	\$24,000.00	32.80%
4	1705	Vehicle Signal Head (12", 5-section)	10	EA	\$2,010.00	\$20,100.00	\$1,250.00	\$12,500.00	\$1,500.00	\$15,000.00	34.00%
5	1705	Modify Existing Signal Head	10	EA	\$376.00	\$3,760.00	\$150.00	\$1,500.00	\$750.00	\$7,500.00	-49.87%
6	SP	Removal of Vehicle Signal Head / Pedestrian Signal Head	5	EA	\$187.00	\$935.00	\$125.00	\$625.00	\$1,000.00	\$5,000.00	-81.30%
7	SP	Remove and Replace Vehicle Signal Head Single LED (Red, Yellow, Green or Arrow)	5	EA	\$146.00	\$730.00	\$90.00	\$450.00	\$250.00	\$1,250.00	-41.80%
8	1705	Signal Cable	2500	LF	\$3.80	\$9,500.00	\$3.00	\$7,500.00	\$4.00	\$10,000.00	-5.00%
9	SP	Removal of Signal Cable From Messenger Wire	100	LF	\$1.70	\$170.00	\$1.00	\$100.00	\$4.00	\$400.00	-57.50%
10	1706	Backplate	25	EA	\$337.00	\$8,425.00	\$175.00	\$4,375.00	\$150.00	\$3,750.00	124.67%
11	1710	Messenger Cable (1/4")	250	LF	\$2.80	\$700.00	\$3.00	\$750.00	\$3.50	\$875.00	-20.00%
12	1710	Messenger Cable (3/8")	750	LF	\$6.50	\$4,875.00	\$3.50	\$2,625.00	\$5.00	\$3,750.00	30.00%
13	SP	Removal of Messenger Cable W/ Conductor Attached	250	LF	\$1.70	\$425.00	\$1.00	\$250.00	\$5.00	\$1,250.00	-66.00%
14	1715	Unpaved Trenching (1, 2")	300	LF	\$14.00	\$4,200.00	\$8.50	\$2,550.00	\$17.00	\$5,100.00	-17.65%
15	1715	Unpaved Trenching (2, 2")	300	LF	\$20.00	\$6,000.00	\$9.50	\$2,850.00	\$20.00	\$6,000.00	0.00%
16	1715	Paved Trenching (2, 2")	100	LF	\$23.50	\$2,350.00	\$12.00	\$1,200.00	\$50.00	\$5,000.00	-53.00%
17	1716	Junction Box (Std. Size)	15	EA	\$815.00	\$12,225.00	\$475.00	\$7,125.00	\$750.00	\$11,250.00	8.67%
18	1720	Wood Pole 35' - Class 3	5	EA	\$1,625.00	\$8,125.00	\$1,000.00	\$5,000.00	\$1,200.00	\$6,000.00	35.42%
19	1720	Wood Pole 40' - Class 3	10	EA	\$2,035.00	\$20,350.00	\$1,250.00	\$12,500.00	\$1,400.00	\$14,000.00	45.96%
20	1720	Wood Pole 45', 50', 55' - Class 3	5	EA	\$2,335.00	\$11,675.00	\$1,400.00	\$7,000.00	\$2,000.00	\$10,000.00	16.75%
21	903	Wood Supports (4' X 4")	100	LF	\$72.00	\$7,200.00	\$16.00	\$1,600.00	\$10.00	\$1,000.00	620.00%
22	903	Wood Supports (6' X 6")	50	LF	\$80.00	\$4,000.00	\$22.00	\$1,100.00	\$20.00	\$1,000.00	300.00%
23	SP	Wood Pole Removal (Including all Attachments)	5	EA	\$385.00	\$1,925.00	\$300.00	\$1,500.00	\$1,500.00	\$7,500.00	-74.33%
24	1721	Guy Assembly (Plastic Guard Required)	10	EA	\$926.00	\$9,260.00	\$400.00	\$4,000.00	\$600.00	\$6,000.00	54.33%
25	SP	Guy Anchor	10	EA	\$538.00	\$5,380.00	\$250.00	\$2,500.00	\$300.00	\$3,000.00	79.33%
26	1722	2" Riser with Weatherhead	10	EA	\$1,040.00	\$10,400.00	\$550.00	\$5,500.00	\$1,000.00	\$10,000.00	4.00%
27	1725	Inductive Loop Sawcut	2500	LF	\$13.20	\$33,000.00	\$9.00	\$22,500.00	\$15.00	\$37,500.00	-12.00%
28	1726	Lead-In Cable (14-2)	1000	LF	\$2.90	\$2,900.00	\$2.25	\$2,250.00	\$2.50	\$2,500.00	16.00%
29	1735	Cable Transfers	10	EA	\$541.00	\$5,410.00	\$350.00	\$3,500.00	\$500.00	\$5,000.00	8.20%
30	1736	900 MHz Serial Spread Spectrum Radio	2	EA	\$4,945.00	\$9,890.00	\$3,750.00	\$7,500.00	\$4,000.00	\$8,000.00	23.63%
31	1736	900 MHz Serial / Ethernet Spread Spectrum Radio	2	EA	\$5,365.00	\$10,730.00	\$3,750.00	\$7,500.00	\$5,000.00	\$10,000.00	7.30%
32	SP	Modify Radio Installation	3	EA	\$500.00	\$1,500.00	\$425.00	\$1,275.00	\$2,000.00	\$6,000.00	-75.00%
33	SP	New Electrical Service	4	EA	\$4,030.00	\$16,120.00	\$2,100.00	\$8,400.00	\$3,000.00	\$12,000.00	34.33%
34	1743	Type II Pedestal W/ Foundation	3	EA	\$585.00	\$1,755.00	\$350.00	\$1,050.00	\$500.00	\$1,500.00	17.00%
35	1745	Sign for Signals	3	EA	\$94.00	\$282.00	\$50.00	\$150.00	\$250.00	\$750.00	-62.40%
37	1750	Removal of Sign for Signals	5	EA	\$2,980.00	\$14,900.00	\$1,500.00	\$7,500.00	\$1,750.00	\$8,750.00	70.29%
38	SP	Signal Cabinet Foundation	3	EA	\$785.00	\$2,355.00	\$500.00	\$1,500.00	\$1,000.00	\$3,000.00	-21.50%
39	SP	Install Grounding Systems	3	EA	\$216.00	\$648.00	\$250.00	\$750.00	\$500.00	\$1,500.00	-56.80%
40	901	Removal of Existing Cabinet	3	EA	\$85.00	\$255.00	\$25.00	\$75.00	\$40.00	\$120.00	112.50%
41	1751	Contractor Furnished, Sign for Flashing Beacon	64	SF	\$85.00	\$5,440.00	\$25.00	\$1,600.00	\$40.00	\$2,560.00	-42.25%
42	1751	Controller W/ Cabinet - Type 2070L, Base or Pole Mounted	4	EA	\$28,450.00	\$113,800.00	\$17,500.00	\$70,000.00	\$20,000.00	\$80,000.00	42.25%
43	1752	Detector Card (2070L)	16	EA	\$317.00	\$5,072.00	\$150.00	\$2,400.00	\$225.00	\$3,600.00	-88.20%
44	1753	Modify Foundation for Controller Cabinet	2	EA	\$354.00	\$708.00	\$400.00	\$800.00	\$3,000.00	\$6,000.00	-86.00%
45	1753	Cabinet Base Adapter	4	EA	\$995.00	\$3,980.00	\$425.00	\$1,700.00	\$1,000.00	\$4,000.00	-0.50%
46	1755	Cabinet Base Extender	4	EA	\$785.00	\$3,140.00	\$425.00	\$1,700.00	\$600.00	\$2,400.00	30.83%
47	1705	Beacon Control Assembly and Cabinet (F-1 F-2 or F-3)	2	EA	\$8,070.00	\$16,140.00	\$4,250.00	\$8,500.00	\$5,000.00	\$10,000.00	61.40%
48	1715	Pedestrian Signal Head (16", 1 section)	4	EA	\$1,305.00	\$5,220.00	\$825.00	\$3,300.00	\$1,000.00	\$4,000.00	30.50%
49	1715	Tracer Wire	250	LF	\$1.20	\$300.00	\$1.00	\$250.00	\$1.25	\$312.50	-4.00%
50	1715	Unpaved Trenching (1, 1")	100	LF	\$10.00	\$1,000.00	\$7.50	\$750.00	\$20.00	\$2,000.00	-50.00%
51	1715	Unpaved Trenching (2, 1")	100	LF	\$12.00	\$1,200.00	\$9.00	\$900.00	\$25.00	\$2,500.00	-52.00%
52	1715	Paved Trenching (1, 1")	100	LF	\$20.00	\$2,000.00	\$10.00	\$1,000.00	\$50.00	\$5,000.00	-60.00%
53	1715	Paved Trenching (2, 1")	100	LF	\$22.00	\$2,200.00	\$12.00	\$1,200.00	\$75.00	\$7,500.00	-70.67%
54	1715	Paved Trenching (1, 2")	100	LF	\$22.00	\$2,200.00	\$22.00	\$2,200.00	\$60.00	\$6,000.00	-63.33%
55	1715	Directional Drilling (1, 2")	100	LF	\$25.00	\$2,500.00	\$22.00	\$2,200.00	\$30.00	\$3,000.00	-16.67%
56	1715	Directional Drilling (2, 2")	100	LF	\$28.00	\$2,800.00	\$25.00	\$2,500.00	\$30.00	\$3,000.00	-6.67%
57	1716	Bore and Jack (1, 2")	100	LF	\$30.00	\$3,000.00	\$22.00	\$2,200.00	\$100.00	\$10,000.00	-70.00%
58	SP	Junction Box (Over Sized)	3	EA	\$1,558.00	\$4,674.00	\$550.00	\$1,650.00	\$600.00	\$1,800.00	159.67%
59	1722	Guy Assembly Removal	5	EA	\$171.00	\$855.00	\$100.00	\$500.00	\$600.00	\$3,000.00	-71.50%
60	1722	1" Riser W/ Weatherhead	3	EA	\$490.00	\$1,470.00	\$350.00	\$1,050.00	\$600.00	\$1,800.00	-18.33%
61	1722	Heat Shrink Tubing Retrofit Kit	3	EA	\$181.00	\$543.00	\$125.00	\$375.00	\$300.00	\$900.00	-39.67%
62	1730	2" Riser with Tubing	3	EA	\$1,035.00	\$3,105.00	\$550.00	\$1,650.00	\$1,000.00	\$3,000.00	3.50%
63	SP	Communication Cable (24 or Less Fiber)	100	LF	\$4.85	\$485.00	\$3.00	\$900.00	\$4.00	\$400.00	21.25%
64	1730	Triplexed Cable	100	LF	\$6.05	\$605.00	\$5.00	\$500.00	\$3.00	\$300.00	101.67%
65	1731	Drop Cable	100	LF	\$4.85	\$485.00	\$3.00	\$900.00	\$3.00	\$300.00	61.67%
66	1731	Interconnect Center	2	EA	\$2,415.00	\$4,830.00	\$1,500.00	\$3,000.00	\$2,500.00	\$5,000.00	-3.40%
67	1731	Splice Enclosure	2	EA	\$3,020.00	\$6,040.00	\$1,500.00	\$3,000.00	\$2,500.00	\$5,000.00	20.80%
68	1743	Modify Splice Enclosure	1	EA	\$1,815.00	\$1,815.00	\$1,000.00	\$1,000.00	\$2,000.00	\$2,000.00	-9.25%
69	1743	Type I Post W/ Foundation	2	EA	\$2,516.00	\$5,032.00	\$1,500.00	\$3,000.00	\$2,000.00	\$4,000.00	25.80%
70	1747	Type III Pedestal W/ Foundation	2	EA	\$6,560.00	\$13,120.00	\$3,500.00	\$7,000.00	\$6,000.00	\$12,000.00	9.33%
71	1747	LED Blankout Sign	2	EA	\$6,675.00	\$13,350.00	\$3,200.00	\$6,400.00	\$5,000.00	\$10,000.00	33.50%
72	SP	Relocate Existing Blankout Sign	2	EA	\$375.00	\$750.00	\$400.00	\$800.00	\$2,500.00	\$5,000.00	-85.00%
73	SP	Removal of Existing Concrete Cabinet Foundation	5	EA	\$530.00	\$2,650.00	\$250.00	\$1,250.00	\$500.00	\$2,500.00	6.00%
74	1757	Remove and Replace Miscellaneous Concrete	5	CY	\$1,255.00	\$6,275.00	\$400.00	\$2,000.00	\$5,000.00	\$15,000.00	-58.17%
75	SP	Traffic Signal Removal	2	EA	\$6,620.00	\$13,240.00	\$1,500.00	\$3,000.00	\$5,000.00	\$10,000.00	32.40%
76	904	Install / Replace Vehicle Motion Detector Systems.	2	EA	\$3,165.00	\$6,330.00	\$1,800.00	\$3,600.00	\$7,500.00	\$15,000.00	-57.80%
77	1190	Sign Erection, Type E	4	EA	\$80.00	\$320.00	\$175.00	\$700.00	\$250.00	\$1,000.00	-68.00%
77	1190	Law Enforcement	10	HR	\$103.00	\$1,030.00	\$75.00	\$750.00	\$125.00	\$1,250.00	-17.60%
					\$582,984.00		\$342,250.00		\$539,997.50		7.96%

Compiled by:  
 Aug 6/13/23