



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

JAMES H. TROGDON, III  
SECRETARY

June 11, 2018

WBS No: 50138.3.249  
County: Stanly  
Description: Grading, Drainage, Curb and Gutter, Milling, Paving, Concrete Monolithic Island, Thermoplastic Pavement Markings, and Traffic Signal on NC 24/27/73 from Spaulding St to Henson St. (SR-1783)

Addendum No. 1  
June 27, 2018 Letting

To: Prospective Bidders

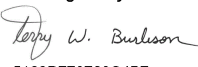
Please note the following revision to the proposal for the above referenced project.

- A line no. 95 was added for "Retrofit Existing Curb Ramp". See attached itemized proposal.
- A special provision was added for "Retrofit Existing Curb Ramp". See attached provision.

For Electronic Bid using Bid Express® please delete the EBS files you previously downloaded for DJ00299 for the June 27, 2018 letting and download the new EBS files (DJ00299.EBS and DJ00299.001) listed for DJ00299 for the June 27, 2018 letting. Bid Express will not accept your bid unless the new EBS file associated with the June 27, 2018 letting is used.

If you have any questions, please contact me at (704) 983-4400.

Sincerely,

DocuSigned by:  
  
5169D778708C4B7...  
Terry Burleson  
Contracts Engineer

cc: Kellie Crump, Project Manager  
File

## **DETECTABLE WARNINGS TO RETROFIT EXISTING CURB RAMPS:**

(10-21-03) (Rev. 8-16-11)(8-31-16 Div)

848

SP8 R125 Div10

### **Description**

Construct detectable warnings consisting of raised truncated domes to retrofit existing curb ramps in accordance with the plan details, Section 848 of the *2018 Standard Specifications*, the requirements of the *28 CFR Part 36 ADA Standards for Accessible Design* and these provisions.

### **Materials**

Detectable warning for retrofitting existing curb ramps shall consist of raised truncated domes. The description, size and spacing shall conform to Section 848 of the *2018 Standard Specifications*.

Use material for detectable warning systems as shown herein. Material and coating specifications must be stated in the Manufacturers Type 3 Certification and all Detectable Warning systems must be on the NCDOT Approved Products List.

Install detectable warnings created from one of the following materials: precast concrete blocks or bricks, clay paving brick, gray or ductile iron castings, mild steel, stainless steel, and engineered plastics, rubber or composite tile. Only one material type for detectable warning will be permitted per project, unless otherwise approved by the Engineer.

- (A) Detectable Warnings shall consist of a base with integrated raised truncated domes, and when constructed of precast concrete they shall conform to the material requirements of Article 848-2 of the *2018 Standard Specifications*.
- (B) Detectable Warnings shall consist of a base with integrated raised truncated domes, and may be comprised of other materials including, but not limited to, clay paving brick, gray iron or ductile iron castings, mild steel, stainless steel, and engineered plastics, rubber or composite tile, which are applied directly to the curb ramps by incorporating **into the concrete of the curb ramps**. The material shall have an integral color throughout the thickness of the material. The detectable warning shall include fasteners or anchors for attachment into the existing ramp and shall be furnished as a system from the manufacturer. **Surface Mounted Rubber Mats will not be accepted.**

Prior to installation, the Contractor shall submit to the Engineer assembling instructions from the manufacturer for each type of system used in accordance with Article 105-2 of the *2018 Standard Specifications*. The system shall be furnished as a kit containing all consumable materials and consumable tools, required for the application. They shall be capable of being affixed to or anchored in the concrete curb ramp, including green concrete (concrete that has set but not appreciably hardened). The system shall be solvent free and contain no volatile organic compounds (VOC). The static coefficient of friction shall be 0.8 or greater when measured on top of the truncated domes and when measured between the domes in accordance with ASTM C1028 (dry and wet). The system shall be resistant

to deterioration due to exposure to sunlight, water, salt or adverse weather conditions and impervious to degradation by motor fuels, lubricants and antifreeze.

- (C) When steel or gray iron or ductile iron casting products are provided, only products that meet the requirements of Subarticle 106-1(B) of the *2018 Standard Specifications* may be used. Submit to the Engineer a Type 6 Certification, catalog cuts and installation procedures at least 30 days prior to installation for all.

### **Construction Methods**

- (A) Prior to placing detectable warnings in existing concrete curb ramps, saw cut to the full depth of the concrete, for other material remove as necessary, and adjust the existing subgrade to the proper grade and in accordance with Article 848-3 of the *2018 Standard Specifications*.
- (B) Install all detectable warning to retrofit existing curb ramps in accordance with the manufacturer's recommendations.

### **Measurement and Payment**

*Retrofit Existing Curb Ramps* with detectable warnings constructed of any type material will be paid as the actual number of retrofitted curb ramps, completed and accepted. Such price and payment will be full compensation for excavating and backfilling; sawing, repairing and replacing portions of the existing curb ramp within the pay limits for retrofit shown on the detail; pavement repairs; furnishing and placing detectable warnings, construction joints and removing and disposing of portions of the existing curb ramp when required and for all materials, labor, equipment, tools and incidentals necessary to complete the work.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Retrofit Existing Curb Ramp	Each

WBS : 50138.3.249 F.A. # HSIP-0024(079) TIP# W-5601IN  
 Type of Work: Grading, Drainage Curb and Gutter, Paving, Profile Milling, Drainage, Concrete Monolithic Island, Thermoplastic Pavement Markings, and Traffic Signal.  
 County: Stanly  
 Location: NC 24/27 from Spaulding St. To Henson St. (SR-1783).

LINE NO.	DESC. NO.	MASTER ITEM NO.	SEC. NO.	ITEM DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE	TOTAL AMOUNT
1	1	0000100000-N	800	MOBILIZATION	1	LS		
2	33	0043000000-N	226	GRADING	1	LS		
3	35	0057000000-E	226	UNDERCUT EXCAVATION	150	CY		
4	54	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	10	SY		
5	61	0234000000-E	SP	BORROW EXCAVATION (PIPE INSTALLATION)	75	CY		
6	94	0366000000-E	310	15" RC PIPE CULVERTS, CLASS III	866	LF		
7	95	0372000000-E	310	18" RC PIPE CULVERTS, CLASS III	81	LF		
8	96	0378000000-E	310	24" RC PIPE CULVERTS, CLASS III	18	LF		
9	102	0414000000-E	310	60" RC PIPE CULVERTS, CLASS III	6	LF		
10	156	0995000000-E	340	PIPE REMOVAL	14	LF		
11	185	1220000000-E	545	INCIDENTAL STONE BASE	20	TON		
12	195	1308000000-E	607	MILLING ASPHALT PAVEMENT, 0" TO 1.5"	4500	SY		
13	196	1330000000-E	607	INCIDENTAL MILLING	1000	SY		
14	202	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	1145	TON		
15	205	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	550	TON		
16	209	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	2305	TON		
17	216	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	214	TON		
18	221	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	20	TON		
19	292	2190000000-N	828	TEMPORARY STEEL PLATE COVERS FOR MASONRY DRAINAGE STRUCTURE	10	EA		
20	295	2220000000-E	838	REINFORCED ENDWALLS	5.6	CY		
21	296	2253000000-E	840	PIPE COLLARS	3.5	CY		
22	299	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	27	EA		
23	301	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	25.9	LF		
24	303	2354000000-N	840	FRAME WITH GRATE, STD 840.22	1	EA		
25	307	2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	12	EA		
26	312	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE F	2	EA		
27	312	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE G	10	EA		
28	313	2396000000-N	840	FRAME WITH COVER, STD 840.54	6	EA		
29	318	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	12	EA		
30	321	2473000000-N	SP	CONCRETE CATCH BASIN MODIFIED TOP SLAB	1	EA		
31	321	2473000000-N	SP	CONCRETE FLUME	1	EA		
32	321	2473000000-N	SP	CONVERT EXISTING CATCH BASIN TO OFFSET CATCH BASIN	1	EA		
33	321	2473000000-N	SP	CONVERT EXISTING CATCH BASIN TO OFFSET CATCH BASIN W/ MANHOLE	3	EA		
34	321	2473000000-N	SP	CONVERT EXISTING DRAINAGE BOX TO CATCH BASIN	2	EA		
35	337	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	1590	LF		
36	343	2591000000-E	848	4" CONCRETE SIDEWALK	1123	SY		

37	345	2605000000-N	848	CONCRETE CURB RAMPS	11	EA		
38	351	2647000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	77	SY		
39	352	2655000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	1881	SY		
40	372	2830000000-N	858	ADJUSTMENT OF MANHOLES	5	EA		
41	373	2845000000-N	858	ADJUSTMENT OF METER BOXES OR VALVE BOXES	9	EA		
42	391	3030000000-E	862	STEEL BEAM GUARDRAIL	1000	LF		
43	392	3045000000-E	862	STEEL BEAM GUARDRAIL, SHOP CURVED	100	LF		
44	407	3287000000-N	SP	GUARDRAIL END UNITS, TYPE TL-3	1	EA		
45	414	3360000000-E	863	REMOVE EXISTING GUARDRAIL	1112.5	LF		
46	471	3649000000-E	876	RIP RAP, CLASS B	3	TON		
47	473	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	330	SY		
48	595	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	310	SF		
49	599	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	86	SF		
50	601	4415000000-N	1115	FLASHING ARROW BOARD	3	EA		
51	602	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	3	EA		
52	607	4430000000-N	1130	DRUMS	450	EA		
53	611	4445000000-E	1145	BARRICADES (TYPE III)	200	LF		
54	617	4480000000-N	1165	TMA	1	EA		
55	624	4510000000-N	1190	LAW ENFORCEMENT	75	HR		
56	625	4516000000-N	1180	SKINNY DRUM	65	EA		
57	646	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	2750	LF		
58	647	4697000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)	280	LF		
59	648	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	280	LF		
60	651	4710000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	230	LF		
61	653	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	45	EA		
62	674	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	12500	LF		
63	676	4820000000-E	1205	PAINT PAVEMENT MARKING LINES (8")	500	LF		
64	679	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	230	LF		
65	681	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	25	EA		
66	705	4891000000-E	1205	THERMOPLASTIC PAVEMENT MARKINGS LINES (4", 120 MIL)(HIGHLY REFLECTIVE MEDIA)	4025	LF		
67	705	4891000000-E	1205	THERMOPLASTIC PAVEMENT MARKINGS LINES (4", 90 MIL)(HIGHLY REFLECTIVE MEDIA)	5850	LF		
68	711	4905000000-N	1253	SNOWPLOWABLE PAVEMENT MARKERS	200	EA		
69	985	6000000000-E	1605	TEMPORARY SILT FENCE	2400	LF		
70	986	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	5	TON		
71	987	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	5	TON		
72	988	6012000000-E	1610	SEDIMENT CONTROL STONE	60	TON		
73	995	6036000000-E	1631	MATTING FOR EROSION CONTROL	700	SY		
74	999	6042000000-E	1632	1/4" HARDWARE CLOTH	745	LF		
75	1012	6071010000-E	SP	WATTLE	50	LF		
76	1016	6071020000-E	SP	POLYACRYLAMIDE (PAM)	1	LB		
77	1023	6084000000-E	1660	SEEDING & MULCHING	2	ACR		

78	1188	7048500000-E	1705	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION W/COUNTDOWN)	2	EA		
79	1189	7060000000-E	1705	SIGNAL CABLE	1650	LF		
80	1194	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	3	EA		
81	1195	7132000000-E	1705	VEHICLE SIGNAL HEAD (12", 4 SECTION)	3	EA		
82	1196	7144000000-E	1705	VEHICLE SIGNAL HEAD (12", 5 SECTION)	3	EA		
83	1207	7264000000-E	1710	MESSENGER CABLE (3/8")	250	LF		
84	1211	7300000000-E	1715	UNPAVED TRENCHING (1 CONDUIT, 2 INCH)	750	LF		
85	1214	7301000000-E	1715	DIRECTIONAL DRILL (1 CONDUIT, 2 INCH)	50	LF		
86	1216	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	10	EA		
87	1218	7360000000-N	1720	WOOD POLE	1	EA		
88	1219	7372000000-N	1721	GUY ASSEMBLY	4	EA		
89	1222	7408000000-E	1722	1" RISER WITH WEATHERHEAD	2	EA		
90	1223	7420000000-E	1722	2" RISER WITH WEATHERHEAD	2	EA		
91	1226	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	1800	LF		
92	1227	7456000000-E	1726	LEAD-IN CABLE (14-2)	6800	LF		
93	1274	7642100000-N	1743	TYPE I POST WITH FOUNDATION	4	EA		
94	1290	7780000000-N	1751	DETECTOR CARD (TYPE 2070L)	1	EA		
95	365	2759000000-N	SP	RETROFIT EXISTING CURB RAMP	31	EA		
Total Bid for Project								