



## MEMORANDUM

---

**Date:** August 22, 2023

**To:** Engineering Services staff and consultants

**From:** General Services – Project Controls and Compliance Division Manager, Becky Chambers, PE

**RE:** Increased Construction Costs

---

The purpose of this memorandum is to inform Engineering Services staff and consultants of the continued increase in construction costs that General Services (and other City departments) continue to see in our bids.

While some material prices have decreased over in FY23, many material prices continue to increase and labor costs have risen higher than we have seen in the previous 4 years.

Items with the highest increase over the past FY include the following:

- Concrete C&G
- Concrete Sidewalk
- Asphalt
- Safety Rail
- Thermoplastic pavement markings

The following items are included in this file to assist in preparing Engineering Services cost estimates:

1. This memorandum
2. Unit Price Update August 2023
  - a. These are the recommended minimum unit prices based on recent bids.
  - b. If you have information (i.e., from supplier) regarding higher or lower unit prices, please share with me at [becky.chambers@charlottenc.gov](mailto:becky.chambers@charlottenc.gov) so list can be updated.
3. Public bid tabs will be available following City Council approval of the construction contracts for the following projects here: [Contract Opportunities - City of Charlotte \(charlottenc.gov\)](https://www.charlottenc.gov/contract-opportunities)
  - a. XCLT Orr to Rocky River – Council date 8/28/2023
  - b. Beatties Ford Sidewalk Phase 1 – Council date 9/11/2023
  - c. University Research Park Sidewalk – Council date 9/25/2023

General Services will continue to monitor bid prices and project cost estimates closely.

**Recommended Minimum Unit Price Update**

**August 2023**

CIC	Section	Item Description	Qty	Unit	Recommended minimum Unit Price	Much Larger quantities	Notes
80135.000	SP	Select Material	100	TN	\$ 55.00	\$ 40.00	Much larger quantity is 2000+
80136.000	SP	Rock Removal	100	CY	\$ 250.00		
10226.101	226	Undercut Excavation	350	CY	\$ 70.00	\$ 45.00	Much larger quantity is 2000+
10270.000	270	Geotextile for Soil Stabilization	500	SY	\$ 8.00	\$ 5.00	Much larger quantity is 2000+
10300.000	300	Foundation Conditioning Material, Minor Structures	50	TN	\$ 75.00	\$ 60.00	Much larger quantity is 500+
10300.100	300	Foundation Conditioning Geotextile	50	SY	\$ 12.00	\$ 10.00	Much larger quantity is 1000+
10310.003	310	15" R.C. Pipe Culverts, Class III	144	LF	\$ 120.00		
10310.004	310	15" R.C. Pipe Culverts, Class IV		LF	\$ 125.00		
10310.006	310	18" R.C. Pipe Culverts, Class III	375	LF	\$ 135.00		
10310.007	310	18" R.C. Pipe Culverts, Class IV		LF	\$ 140.00		
10310.009	310	24" R.C. Pipe Culverts, Class III	128	LF	\$ 160.00		
10310.010	310	24" R.C. Pipe Culverts, Class IV		LF	\$ 165.00		
10310.012	310	30" R.C. Pipe Culverts, Class III	93	LF	\$ 220.00		
10310.015	310	36" R.C. Pipe Culverts, Class III	201	LF	\$ 250.00		
10310.016	310	36" R.C. Pipe Culverts, Class IV	32	LF	\$ 260.00		
10310.078	310	15" R.C. Flared End Section (CLDS 20.22)	3	EA	\$ 1,700.00		
10310.091	310	36" R.C. Flared End Section (CLDS 20.22)	1	EA	\$ 3,900.00		
10520.000	520	Aggregate Base Course	185	TN	\$ 75.00	\$ 60.00	Much larger quantity is 2000+
10607.059	607	Milling Asphalt Pavement, 0.0" to 3.0"	515	SY	\$ 22.00	\$ 15.00	Much larger quantity is 2000+
10610.051	610	Asphalt Concrete Base Course, Type B 25.0C	240	TN	\$ 150.00	\$ 100.00	Much larger quantity is 2000+
10610.201	610	Asphalt Concrete Intermediate Course, Type I 19.0C	50	TN	\$ 150.00	\$ 100.00	Much larger quantity is 2000+
10610.451	610	Asphalt Concrete Surface Course, Type S 9.5C	150	TN	\$ 150.00	\$ 100.00	Much larger quantity is 2000+
10620.000	620	Asphalt Binder for Plant Mix	50	TN	\$ 900.00		
10654.000	654	Asphalt Plant Mix, Pavement Repair	100	TN	\$ 250.00	\$ 200.00	Much larger quantity is 1000+
10840.022	840	Masonry Drainage Structures	17	EA	\$ 4,000.00		
10840.101	840	Masonry Drainage Structures	45	LF	\$ 750.00		
10840.355	840	Frame with Grate (all types)	2	EA	\$ 1,800.00		
10840.053	840	Manhole Frame and Cover, NCDOT Std 840.54	2	EA	\$ 1,500.00		
10846.000	846	6"x18" Concrete Curb	53	LF	\$ 45.00		
10846.052	846	2' 6" Concrete Curb and Gutter	1,140	LF	\$ 45.00	\$ 40.00	Much larger quantity is 5000+
10848.000	848	4 " Concrete Sidewalk or pad	855	SY	\$ 60.00		
81855.000	SP	6" Concrete SUP	1,250	SY	\$ 90.00		
81840.000	SP	6" Concrete Greenway (fiber reinforced)	2,830	SY	\$ 100.00		
10848.051	848	6" Concrete Driveways	950	SY	\$ 100.00		
81062.000	SP	Pedestrian Refuge Island (Pass-Thru)	99	SY	\$ 150.00		
80218.000	SP	6" Concrete Wheelchair Ramps	221	SY	\$ 250.00		
10852.001	852	5" Monolithic Concrete Islands	230	SY	\$ 150.00		
10852.001	876	Geotextile for Drainage	2,300	SY	\$ 5.00		
10876.002	876	Riprap (Class A, Class B, Class I & Class II)	250	TN	\$ 100.00		
81006.000	SP	Wall, Precast Modular Block Retaining	100	SF	\$ 200.00	\$ 100.00	This item is very project specific and varies based on height and quantity of walls from \$100 to \$200/SF
81839.000	SP	Soldier Pile Retaining Wall	3,830	SF	\$ 260.00		
80199.001	SP	Fence, 4' chain link	50	LF	\$ 70.00	\$ 45.00	Much larger quantity is 1000+
81017.000	SP	Fence, 6' chain link	50	LF	\$ 75.00	\$ 50.00	Much larger quantity is 1000+
80010.000	SP	Safety Rail, Metal CLDS 50.04	760	LF	\$ 195.00		
10901.002	901	Contractor Furnished, Type E Sign	40	SF	\$ 50.00		
10903.001	903	Supports, 2-lb (3 kg) Steel U-Channel	100	LF	\$ 10.00		
10904.101	904	Sign Erection, Type E	5	EA	\$ 250.00		
11205.052	1205	Thermoplastic Pavement Marking Lines, 4", 90 mils	1,136	LF	\$ 6.00	\$ 2.00	Much larger quantity is 10,000+ for total LF of all Thermoplastic Pavement Marking Lines
11205.039	1205	Thermoplastic Pavement Marking Lines, 6", 90 mils	1,000	LF	\$ 8.00	\$ 4.00	
11205.026	1205	Thermoplastic Pavement Marking Lines, 8", 90 mils	700	LF	\$ 12.00	\$ 8.00	
11205.036	1205	Thermoplastic Pavement Marking Lines, 12", 90 mils	500	LF	\$ 16.00	\$ 12.00	
11205.082	1205	Thermoplastic Pavement Marking Lines, 24", 90 mils	200	LF	\$ 30.00	\$ 20.00	
11205.185	1205	Thermoplastic Pavement Marking Symbols, Left-Turn Arrow	15	EA	\$ 400.00		
11205.183	1205	Thermoplastic Pavement Marking Symbols, (Bicycle) 120 mils:	15	EA	\$ 1,200.00		

<i>CIC</i>	<i>Section</i>	<i>Item Description</i>	<i>Qty</i>	<i>Unit</i>	<i>Recommended minimum Unit Price</i>	<i>Much Larger quantities</i>	<i>Notes</i>
11205.184	1205	Thermoplastic Pavement Marking Symbols, (Bicycle Arrow), 120 mils:	12	EA	\$ 1,200.00		
81874.000	SP	Green Thermoplastic	2,700	SF	\$ 40.00		
81548.000	SP	Reflective Paddles	21	EA	\$ 450.00		
11715.004	1715	Unpaved Trenching (2-2" SCH80)	450	LF	\$ 30.00		
11716.001	1716	Junction Box (13"x24"x12" PC, TRAFFIC SIGNAL logo)	1	EA	\$ 2,000.00		
81782.000	SP	Concrete Foundation for 10 foot Metal Base/Pole/Pedestrian Signal	1	EA	\$ 2,000.00		
81785.000	SP	Concrete base for controller cabinet	1	EA	\$ 3,000.00		
20017.000	SP	Fire Hydrant	2	EA	\$ 10,000.00		
21041.000	SPU	12" DIP Restrained Joint Water Pipe, PC 350	100	LF	\$ 250.00		
21229.000	SPU	DI Restrained Joint Water Pipe Fittings	800	LB	\$ 13.00		
20154.000	SPU	Foundation Conditioning Material for Utilities	60	TN	\$ 88.00		
20006.001	SPU	Select Backfill Material for Utilities	80	TN	\$ 68.00		