

GROUND TO SKY PROJECT



Construction Cost Estimates (HE-0001A + B)

**MPDG FFY 2023 and 2024
GRANT APPLICATION
AUGUST 2023**



North Carolina Department of Transportation
Preliminary Estimate

TIP No. HE-0001A
Route: I-26 INTERCHANGE
From:
Typical Section:

Func

County: **Buncombe**

CONSTR. COST
\$37,300,000

Prepared By: Gannett Fleming
Requested By:
Priced By: Dan Shuller, PE

Date 1/15/2023
Date
Date 7/31/2023

Line Item	Des	Sec No.	Description	Quantity	Unit	Price	Amount
	add		Mobilization	1	LS	\$ 1,087,832.05	\$ 1,087,832.05
	add		Construction Surveying	1	LS	\$ 250,000.00	\$ 250,000.00
			Clearing and Grubbing	22.00	Acre	\$ 45,000.00	\$ 990,000.00
			Supp Clearing & Grubbing	2	Acre	\$ 10,000.00	\$ 20,000.00
			Unclassified Excavation	626,600	CY	\$ 15.00	\$ 9,399,000.00
	add		Reinforced Bridge Approach Fill	1	LS	\$ 50,000.00	\$ 45,500.00
			Double Faced Rein Conc Barrier	120	LF	\$ 400.00	\$ 48,000.00
			Single Faced Rein Conc Barrier	1,390.0	LF	\$ 150.00	\$ 208,500.00
			Single Faced Rein Conc Barrier w/ Moment Slab	460.00	LF	\$ 450.00	\$ 207,000.00
			Single Slope Double Faced Conc Barrier	1,630	LF	\$ 175.00	\$ 285,250.00
			Concrete for Island Cover	33	CY	\$ 200.00	\$ 6,600.00
			#57 Stone	125	Tons	\$ 75.00	\$ 9,375.00
			Monolithic Concrete Island	3,990	SF	\$ 90.00	\$ 359,100.00
			Shoulder Berm Gutter	6,250	SF	\$ 40.00	\$ 250,000.00
			1'-6" C&G	490	LF	\$ 40.00	\$ 19,600.00
			2'-6" C&G	3,630	LF	\$ 35.00	\$ 127,050.00
			Fine Grading	33,070	SY	\$ 4.00	\$ 132,280.00
			Asphalt Surface Course, S9.5B	15,000	Tons	\$ 90.00	\$ 1,350,000.00
			Asphalt Intermediate Course, I19.0B	15,000	Tons	\$ 90.00	\$ 1,350,000.00
			Asphalt Base Course, B25.0C	15,780	Tons	\$ 85.00	\$ 1,341,300.00
			Asphalt Plant Mix	2,436	Tons	\$ 700.00	\$ 1,705,200.00
			Erosion Control (Including Seeding & Mulching)	17.2	Acres	\$ 50,000.00	\$ 860,000.00
			Double Yellow Centerline (6")	145	LF	\$ 3.00	\$ 436.37
			Solid White Lane Line (6")	55	LF	\$ 5.00	\$ 273.52
			Solid Yellow Edge Line (6")	7,540	LF	\$ 2.50	\$ 18,849.18
			Solid White Edge Line (6")	6,935	LF	\$ 2.50	\$ 17,336.81
			Solid White Gore Line (8")	3,241	LF	\$ 3.00	\$ 9,723.44
			Min Skip 6' white (6")	1,608	LF	\$ 2.00	\$ 3,215.62
			Skip White (6")	90	LF	\$ 3.00	\$ 271.08
	add		Traffic Control	1.000	LS	\$ 200,000.00	\$ 150,000.00
			Drainage (INTERCHANGE W/ DDI)	1.72	Miles	\$ 450,000.00	\$ 774,000.00
			Structure over I-26 (100' x 50')	5,016	SF	\$ 205.00	\$ 1,028,280.00
	add		Approach Slabs (2@ 50' x 25')	2,500	SF	\$ 45.00	\$ 112,500.00
			Concrete Retaining Walls	4,520	CY	\$ 150.00	\$ 678,000.00
			Misc. (10% Strs&Util)				\$ 182,000.00
			Misc. (40% Rdy)				\$ 7,975,000.00

Lgth 0.571 Miles	Contract Cost	\$ 31,002,000.00
	E. & C. 16%	\$ 6,298,000.00
	Construction Cost	\$ 37,300,000.00
	Design Engineering	\$ 4,650,300.00
	Mitigation	\$ 600,000.00
	Right of Way	\$ -
	Total Cost	\$ 42,550,300.00

North Carolina Department of Transportation
Preliminary Estimate

TIP No. HE-0001B

Func

County: **Buncombe**

Route: EAST FREDERICK LAW OLMSTEAD WAY

From:

CONSTR. COST
\$12,900,000

Typical Section:

Prepared By: Gannett Fleming
Requested By: Angel Pridgen, PE
Priced By: Dan Shuller, PE

Date 1/15/2023
Date 1/23/2023
Date 7/31/2023

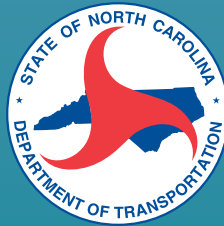
Line Item	Des	Sec No.	Description	Quantity	Unit	Price	Amount
	add		Mobilization	1	LS	\$ 370,526.92	\$ 370,526.92
	add		Construction Surveying	1	LS	\$ 100,000.00	\$ 100,000.00
			Clearing and Grubbing	11.50	Acre	\$ 50,000.00	\$ 575,000.00
			Supp Clearing & Grubbing	2	Acre	\$ 10,000.00	\$ 20,000.00
			Unclassified Excavation	233,840	CY	\$ 20.00	\$ 4,676,800.00
			Concrete Sidewalk	1,100	SY	\$ 65.00	\$ 71,500.00
			Monolithic Concrete Island	170	SF	\$ 125.00	\$ 21,250.00
			1'-6" C&G	390	LF	\$ 40.00	\$ 15,600.00
			2'-6" C&G	5,900	LF	\$ 35.00	\$ 206,500.00
			Fine Grading	21,700	SY	\$ 4.00	\$ 86,800.00
			Asphalt Surface Course, S9.5B	1,390	Tons	\$ 110.00	\$ 152,900.00
			Asphalt Intermediate Course, I19.0C	1,910	Tons	\$ 100.00	\$ 191,000.00
			Asphalt Base Course, B25.0C	2,390	Tons	\$ 90.00	\$ 215,100.00
			Asphalt Plant Mix	293	Tons	\$ 700.00	\$ 205,100.00
			Erosion Control (Including Seeding)	8.3	Acres	\$ 50,000.00	\$ 415,000.00
			Double Yellow Centerline (6")	947	LF	\$ 2.00	\$ 1,894.00
			Double Yellow Centerline (4")	1,825	LF	\$ 3.00	\$ 5,475.00
			Solid Yellow Edge Line (4")	334	LF	\$ 3.00	\$ 1,001.85
			Solid White Gore Line (8")	36	LF	\$ 5.00	\$ 177.85
			Min Skip 6' white (6")	723	LF	\$ 2.00	\$ 1,445.96
			Skip White (6")	187	LF	\$ 2.00	\$ 373.68
			15" CS Pipe	400	LF	\$ 115.00	\$ 46,000.00
			15" RC Pipe, Class III	1,932	LF	\$ 85.00	\$ 164,220.00
			24" RC Pipe, Class III	184	LF	\$ 150.00	\$ 27,600.00
			30" RC Pipe, Class III	160	LF	\$ 215.00	\$ 34,400.00
			15" CS Elbow	6	Each	\$ 600.00	\$ 3,600.00
			Masonry Drainage Structures	31	Each	\$ 3,800.00	\$ 117,800.00
			Frame, Grates & Hood, Std 840.03, Type E	3	Each	\$ 1,200.00	\$ 3,600.00
			Frame, Grates & Hood, Std 840.03, Type F	10	Each	\$ 1,200.00	\$ 12,000.00
			Frame, Grates & Hood, Std 840.03, Type G	15	Each	\$ 1,200.00	\$ 18,000.00
			Frame w/ 2 grates, Std 840.20	3	Each	\$ 1,200.00	\$ 3,600.00
			JB	1	Each	\$ 3,800.00	\$ 3,800.00
			BDO Std 850.10	2	Each	\$ 5,000.00	\$ 10,000.00
			Preformed Scour Hole	1	Each	\$ 3,000.00	\$ 3,000.00
			Misc. (10% Strs&Util)			\$	-
			Misc. (40% Rdy)			\$	2,964,000.00

Lgth 0.571 Mile:

Contract Cost	\$ 10,746,000.00
E. & C. 16%	\$ 2,154,000.00
Construction Cos	\$ 12,900,000.00
 Design Engineering	 \$ 1,611,900.00
Mitigation	\$ 600,000.00
Right of Way	\$ -
 Total Cost	 \$ 15,111,900.00

**MPDG FFY 2023 and 2024
GRANT APPLICATION
AUGUST 2023**

GROUND TO SKY PROJECT



N.C. Department of Transportation
1 South Wilmington Street
Raleigh, NC 27601

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