

North Carolina Department of Transportation  
Preliminary Estimate

TIP No. U-5824  
Route NC 66 (Old Hollow Rd)  
From West of Harley Dr to US 158  
Typical Section 4-Ln divided with 23' raised median and c&g section

**Final**

County: **FORSYTH**

**CONSTR. COST**  
**\$0**

Prepared By: Summit Design & Engineering Services  
Requested By:

Type	Item Number	Section	Description	Quantity	Unit	Price	Amount
M	0000100000-N	800	Mobilization	1	LS		\$ -
M	0000400000-N	801	Construction Surveying	1	LS		\$ -
G	0015000000-N	205	Sealing Abandoned Wells	1	EA		\$ -
G	0043000000-N	226	Grading (Lump Sum)	1	EA		\$ -
G	0050000000-E	226	Supplemental Clearing and Grubbing	1	Acre		\$ -
G	0057000000-E	226	Undercut Excavation	2,800	CY		\$ -
D	0134000000-E	240	Drainage Ditch Excavation	10	CY		\$ -
G	0195000000-E	265	Select Granular Material	3,900	CY		\$ -
G	0196000000-E	270	Geotextile for Soil Stabilization	3,900	SY		\$ -
G	0241000000-E	505	Geotextile for Subgrade Stabilization	4,000	SY		\$ -
D	0318000000-E	300	Foundation Conditioning Material, Minor Structures	1,730	Tons		\$ -
D	0320000000-E	300	Foundation Conditioning Geotextile	5,430	SY		\$ -
D	0335200000-E	305	15" Drainage Pipe	1,860	LF		\$ -
D	0335300000-E	305	18" Drainage Pipe	136	LF		\$ -
D	0335400000-E	305	24" Drainage Pipe	392	LF		\$ -
D	0335500000-E	305	30" Drainage Pipe	92	LF		\$ -
D	0335600000-E	305	36" Drainage Pipe	352	LF		\$ -
D	0366000000-E	310	15" RC Pipe Culv, Class III	10,444	LF		\$ -
D	0372000000-E	310	18" RC Pipe Culv, Class III	1,964	LF		\$ -
D	0378000000-E	310	24" RC Pipe Culv, Class III	660	LF		\$ -
D	0390000000-E	310	36" RC Pipe Culv, Class III	144	LF		\$ -
D	0414000000-E	310	60" RC Pipe Culv, Class III	152	LF		\$ -
D	0448200000-E	310	15" RC Pipe Culv, Class IV	76	LF		\$ -
G	0995000000-N	340	Pipe Removal	4,829	LF		\$ -
G	1099500000-E	505	Shallow Undercut	900	CY		\$ -
G	1099700000-E	505	Class IV Subgrade Stabilization	2,600	Tons		\$ -
G	1220000000-E	545	Incidental Stone Base	3,000	Tons		\$ -
P	1330000000-E	607	Incidental Milling	6,300	SY		\$ -
P	1491000000-E	610	Asphalt Conc. Base Course, Type B25.0C	18,320	Tons		\$ -
E	1503000000-E	610	Asphalt Conc. Intermediate Course, Type I19.0C	17,270	Tons		\$ -
P	1519000000-E	610	Asphalt Conc. Surface Course, Type S9.5B	14,120	Tons		\$ -
P	1575000000-E	620	Asphalt Binder for Plant Mix PG 64-22	2,575	Tons		\$ -
P	1693000000-E	654	Asphalt Plant Mix Pavement Repair	1,525	Tons		\$ -
G	2000000000-N	806	Right-of-Way Markers	157	EA		\$ -
D	2022000000-E	815	Subdrain Excavation	112	CY		\$ -
D	2026000000-E	815	Geotextile for Subsurface Drains	500	SY		\$ -
D	2036000000-E	815	Subdrain Course Aggregate	84	CY		\$ -
D	2044000000-E	815	6" Perforated Subdrain Pipe	500	LF		\$ -
D	2070000000-N	815	Subdrain Pipe Outlet	1	EA		\$ -
D	2077000000-E	815	6" Outlet Pipe	6	LF		\$ -
D	2190000000-N	828	Temporary Steel Plate Covers for Masonry Drainage Structure	20	EA		\$ -
D	2209000000-E	838	Endwalls	6.2	CY		\$ -
D	2220000000-E	838	Reinforced Endwalls	5.6	CY		\$ -
D	2264000000-E	840	Pipe Plugs	0.116	CY		\$ -
D	2275000000-E	SP	Flowable Fill	16	CY		\$ -
D	2286000000-N	840	Masonry Drainage Structures	201	EA		\$ -
D	2297000000-E	840	Masonry Drainage Structures	9.21	CY		\$ -
D	2308000000-E	840	Masonry Drainage Structures	83.90	LF		\$ -

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D	2364000000-N	840	Frame w / Two Grates, Std 840.16	40	EA		\$ -
D	2366000000-N	840	Frame w/ Two Grates, Std 840.24	1	EA		\$ -
D	2367000000-N	840	Frame w/ Two Grates, Std 840.29	9	EA		\$ -
D	2374000000-N	840	Frame w/Grate and Hood 840.03 Type E	13	EA		\$ -
D	2374000000-N	840	Frame w/Grate and Hood 840.03 Type F	62	EA		\$ -
D	2374000000-N	840	Frame w/Grate and Hood 840.03 Type G	69	EA		\$ -
D	2396000000-N	840	Frame w / Two Grates, Std 840.54	9	EA		\$ -
D	2440000000-N	852	Concrete Transitional Section For Catch Basin	15	EA		\$ -
D	2451000000-N	852	Concrete Transitional Section For Drop Inlet	6	EA		\$ -
D	2473000000-N	SP	Concrete Transitional Section for Traffic Bearing 2GI	9	EA		\$ -
P	2535000000-E	846	8"x18" Concrete Curb	580	LF		\$ -
P	2538000000-E	846	2'-9" Concrete Curb and Gutter	1,390	LF		\$ -
P	2542000000-E	846	1'-6" Concrete Curb and Gutter	10,430	LF		\$ -
P	2549000000-E	846	2'-6" Concrete Curb and Gutter	18,400	LF		\$ -
P	2591000000-E	848	4" Concrete Sidewalk	9,790	SY		\$ -
P	2605000000-N	848	Concrete Curb Ramps	80	EA		\$ -
P	2612000000-E	848	6" Concrete Driveways	640	SY		\$ -
D	2619000000-E	850	4" Concrete Paved Ditch	10	SY		\$ -
P	2655000000-E	852	5" Mono. Islands (Keyed-in)	2,180	SY		\$ -
D	2815000000-N	858	Adjustment of Drop Inlet	1	EA		\$ -
D	2830000000-N	858	Adjustment of Manholes	28	EA		\$ -
D	2845000000-N	858	Adjustment of Meter and Valve Boxes	76	EA		\$ -
GR	3030000000-E	862	Steel Beam Guardrail	1,112.50	LF		\$ -
GR	3045000000-E	862	Steel Beam Guardrail, Shop Curved	75.00	LF		\$ -
GR	3150000000-N	862	Additional Guardrail Posts	10	EA		\$ -
GR	3210000000-N	862	Guardrail Anchor, Type CAT-1	7	EA		\$ -
GR	3287000000-N	SP	GRAU, Type 350 TL-3	7	EA		\$ -
G	3628000000-E	876	Plain Rip Rap, Class I	35	Ton		\$ -
G	3649000000-E	876	Plain Rip Rap, Class B	135	Ton		\$ -
D	3656000000-E	876	Geotextile For Drainage	2,445	SY		\$ -
S	4072000000-E	903	Supports, 3 LB Steel U-Channel	1,600	LF		\$ -
S	4096000000-N	904	Sign Erection, Type D	5	EA		\$ -
S	4102000000-N	904	Sign Erection, Type E	66	EA		\$ -
S	4108000000-N	904	Sign Erection, Type F	23	EA		\$ -
S	4116100000-N	904	Sign Erection, Relocate G.M. Sign	3	EA		\$ -
S	4155000000-N	907	Disposal of Sign System, U-Channel	67	EA		\$ -
S	4192000000-N	907	Disposal of Support, U-Channel	3	EA		\$ -
Y	4400000000-E	1110	Work Zone Signs (Stationary)	1160	SF		\$ -
Y	4405000000-E	1110	Work Zone Signs (Portable)	932	SF		\$ -
Y	4410000000-E	1110	Work Zone Signs (Barricade Mounted)	272	SF		\$ -
Y	4415000000-N	1115	Flashing Arrow Board	2	EA		\$ -
Y	4420000000-N	1120	Portable Changeable Message Sign	2	EA		\$ -
Y	4430000000-N	1130	Drums	522	EA		\$ -
Y	4445000000-E	1145	Barricades (Type III)	152	LF		\$ -
Y	4447000000-E	SP	Pedestrian Channelizing Devices	16	LF		\$ -
Y	4455000000-N	1150	Flagger	1,080	DAY		\$ -
Y	4465000000-N	1160	Temporary Crash Cushions	4	EA		\$ -
Y	4470000000-N	1160	Remove and Reset Temporary Crash Cushion	2	EA		\$ -
Y	4480000000-N	1165	TMA	2	EA		\$ -
Y	4485000000-E	1170	Portable Concrete Barrier	975	LF		\$ -
Y	4500000000-E	1170	Remove and Reset Portable Concrete Barrier	710	LF		\$ -
Y	4507000000-E	1170	Water Filled Barrier	30	LF		\$ -
Y	4510000000-N	1190	Law Enforcement	136	HR		\$ -
Y	4585000000-N	SP	Transfer & Transport Vehicle	225	EA		\$ -
Y	4600000000-N	SP	Generic Traffic Control Item - Audible Warning Devices	2	EA		\$ -
Y	4650000000-N	1251	Temporary Raised Pavement Markers	150	EA		\$ -
PM	4685000000-E	1205	Thermoplastic Pavement Marking Lines (4", 90 MILS)	36,270	LF		\$ -
PM	4695000000-E	1205	Thermoplastic Pavement Marking Lines (8", 90 MILS)	4,600	LF		\$ -

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PM	4700000000-E	1205	Thermoplastic Pavement Marking Lines (12", 90 MILS)	920	LF		\$	-
PM	4709000000-E	1205	Thermoplastic Pavement Marking Lines (24", 90 MILS)	575	LF		\$	-
PM	4720000000-E	1205	Thermoplastic Pavement Marking Character (90 MILS)	8	EA		\$	-
PM	4725000000-E	1205	Thermoplastic Pavement Marking Symbol (90 MILS)	136	EA		\$	-
PM	4726110000-E	1205	Heated-In-Place Thermoplastic Pavement Marking Symbol (90 MILS)	50	EA		\$	-
PM	4810000000-E	1205	Paint Pavement Marking Lines (4")	87753	LF		\$	-
PM	4820000000-E	1205	Paint Pavement Marking Lines (8")	7250	LF		\$	-
PM	4825000000-E	1205	Paint Pavement Marking Lines (12")	1,470	LF		\$	-
PM	4835000000-E	1205	Paint Pavement Marking Lines (24")	1,370	LF		\$	-
PM	4840000000-N	1205	Paint Pavement Marking Character	16	EA		\$	-
PM	4845000000-N	1205	Paint Pavement Marking Symbol	239	EA		\$	-
PM	4850000000-E	1205	Removal of Pavement Marking Lines (4")	31,665	LF		\$	-
PM	4860000000-E	1205	Removal of Pavement Marking Lines (8")	690	LF		\$	-
PM	4870000000-E	1205	Removal of Pavement Marking Lines (24")	790	LF		\$	-
PM	4875000000-N	1205	Removal of Pavement Marking Symbols & Characters	110	EA		\$	-
PM	4905500000-N	1253	Snowplowable Pavement Markers	755	EA		\$	-
L	6000000000-E	1605	Temporary Silt Fence	30,010	LF		\$	-
L	6006000000-E	1610	Erosion Control Stone, Class A	2,580	TON		\$	-
L	6009000000-E	1610	Erosion Control Stone, Class B	1,710	TON		\$	-
L	6012000000-E	1610	Sediment Control Stone	3,850	TON		\$	-
L	6015000000-E	1615	Temporary Mulching	26	ACR		\$	-
L	6018000000-E	1620	Seed For Temporary Erosion Control	1,300	LB		\$	-
L	6021000000-E	1620	Fertilizer For Temporary Seeding	7.5	TON		\$	-
L	6024000000-E	1622	Temporary Slope Drains	590	LF		\$	-
L	6029000000-E	SP	Safety Fence	800	LF		\$	-
L	6030000000-E	1630	Silt Excavation	8,140	CY		\$	-
L	6036000000-E	1631	Matting for Erosion Control	24,000	SY		\$	-
L	6037000000-E	SP	Coir Fiber Mat	100	SY		\$	-
L	6038000000-E	SP	Permanent Soil Reinforcement Mat	4,110	SY		\$	-
L	6042000000-E	1632	1/4" Hardware Cloth	9,000	LF		\$	-
L	6046000000-E	1636	Temporary Pipe for Stream Crossing	50	LF		\$	-
L	6070000000-N	1639	Special Stilling Basin	2	EA		\$	-
L	6071010000-E	SP	Wattle	320	LF		\$	-
L	6071012000-E	SP	Coir Fiber Wattle	560	LF		\$	-
L	6071020000-E	SP	Polyacrylamide (PAM)	330	LB		\$	-
L	6071030000-E	1640	Coir Fiber Baffle	1,140	LF		\$	-
L	6071050000-E	SP	1-1/2" Skimmer	3	EA		\$	-
L	6071050000-E	SP	2" Skimmer	3	EA		\$	-
L	6084000000-E	1660	Seeding and Mulching	24	ACR		\$	-
L	6087000000-E	1660	Mowing	21	ACR		\$	-
L	6090000000-E	1661	Seed for Repair Seeding	300	LB		\$	-
L	6093000000-E	1661	Fertilizer For Repair Seeding	1	TON		\$	-
L	6096000000-E	1662	Seed for Supplementary Seeding	525	LB		\$	-
L	6108000000-E	1665	Fertilizer Topdressing	15.25	TON		\$	-
L	6111000000-E	SP	Impervious Dike	65	LF		\$	-
L	6114500000-N	1667	Specialized Hand Mowing	10	MHR		\$	-
L	6114800000-N	SP	Manual Litter Removal	12	MHR		\$	-
L	6114900000-E	SP	Litter Disposal	3	TON		\$	-
L	6117000000-N	1675	Response for Erosion Control	100	EA		\$	-
L	6117500000-N	SP	Concrete Washout Structure	10	EA		\$	-
L	6132000000-E	SP	Generic Erosion Control Item - Fabric Insert Inlet Protection Cleanout	132	EA		\$	-
L	6132000000-E	SP	Generic Erosion Control Item - Fabric Insert Inlet Protection	44	EA		\$	-
Z	7048500000-E	1705	Pedestrian Signal Head (16", 1 Section w/ Countdown)	24	EA		\$	-
Z	7060000000-E	1705	Signal Cable	21,300	LF		\$	-
Z	7120000000-E	1705	Vehicle Signal Head (12", 3 Section)	73	EA		\$	-
Z	7132000000-E	1705	Vehicle Signal Head (12", 4 Section)	26	EA		\$	-
Z	7144000000-E	1705	Vehicle Signal Head (12", 5 Section)	9	EA		\$	-
Z	7264000000-E	1710	Messenger Cable (3/8")	4,750	LF		\$	-
Z	7288000000-E	1710	Paved Trenching (1, 2")	50	LF		\$	-
Z	7300000000-E	1715	Unpaved Trenching (1, 2")	3,475	LF		\$	-
Z	7300000000-E	1715	Unpaved Trenching (2, 2")	500	LF		\$	-

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Z	7300000000-E	1715	Unpaved Trenching (3, 2")	125	LF	\$	-
Z	7301000000-E	1715	Directional Drill (1, 2")	275	LF	\$	-
Z	7301000000-E	1715	Directional Drill (2, 2")	125	LF	\$	-
Z	7324000000-N	1716	Junction Box (Standard)	49	EA	\$	-
Z	7348000000-N	1716	Junction Box (Over-Sized, Heavy Duty)	4	EA	\$	-
Z	7360000000-N	1720	Wood Pole	15	EA	\$	-
Z	7372000000-N	1721	Guy Assembly	32	EA	\$	-
Z	7408000000-E	1722	1" Riser w/ Weatherhead	4	EA	\$	-
Z	7420000000-E	1722	2" Riser w/ Weatherhead	8	EA	\$	-
Z	7444000000-E	1725	Inductive Loop Sawcut	5,600	LF	\$	-
Z	7456000000-E	1726	Lead-In Cable (14-2)	25,625	LF	\$	-
Z	7481000000-N	SP	Site Survey	4	EA	\$	-
Z	7481240000-N	SP	Camera Without Internal Loop Emulator Processing Unit	24	EA	\$	-
Z	7481260000-N	SP	External Loop Emulator Processing Unit	4	EA	\$	-
Z	7575142010-N	1736	900 MHz Ethernet Spread Spectrum Radio	4	EA	\$	-
Z	7576000000-N	SP	Metal Strain Signal Pole	16	EA	\$	-
Z	7613000000-N	SP	Soil Test	16	EA	\$	-
Z	7614100000-E	SP	Drilled Pier Foundation	96	CY	\$	-
Z	7636000000-N	1745	Sign for Signals	13	EA	\$	-
Z	7642200000-N	1750	Type II Pedestal w/ Foundation (BLACK)	17	EA	\$	-
Z	7684000000-N	1751	Signal Cabinet Foundation	4	EA	\$	-
Z	7696000000-N	1751	Controller w/ Cabinet (2070LX, 332)	4	EA	\$	-
Z	7708000000-N	1753	Detector Card (Type 170)	39	EA	\$	-
Z	7901000000-N	1753	Cabinet Base Extender	4	EA	\$	-
Z	7980000000-N	SP	Generic Signal Item - Ethernet Edge Switch	4	EA	\$	-
Z	7980000000-N	SP	Generic Signal Item - Protective Coating for Strain Pole (Black)	8	EA	\$	-
Z	7980000000-N	SP	Generic Signal Item - Protective Coating for Signal Pedestal (Black)	17	EA	\$	-
W	8802040000-E	SP	Segmental Gravity Retaining Walls	4,735	SF	\$	-
W	8839000000-E	SP	Handrail for Retaining Wall	760	LF	\$	-
			Misc. & Mob (10% Str & Utilities)	1	LS		
			Misc. & Mob (25% Rdwy)	1	LS		

<b>Lgth</b>	<b>Miles</b>	<b>Contract Cost</b> .....	\$	-
		<b>E. &amp; C. 15%</b> .....		
		<b>Construction Cost</b> .....	\$	-