

Engineers Estimate of Probable Construction Cost
Project 1 - Begin Project to Hallie Lane
LIC-Thornwood Drive

PID 78116

Safety Improvement Project

- Notes:
1. Estimates do not include possible utility relocation costs.
 2. Estimates do not include temporary right of way land costs, cost to acquire ROW or relocation cost.
 3. Estimates do not include construction engineering and inspection.
 4. Estimates are based on ODOT Office of Estimating procedures for budget estimating with unit prices adjusted as needed.

Category	Work Item	Unit	Unit \$	PID 78116		
				Stage 1 Estimate Proposed ROW = 120'	Item Cost	
Roadway	Guardrail	ft	12	1579	\$19,000	
	Excavation	cy	8	27089	\$217,000	
	Fill	cy	10	15529	\$155,000	
	Excavation of Subgrade	cy	8	2800	\$22,000	
	Embankment	cy	6	1900	\$11,000	
	Cement Stabilized Subgrade (16")	sy	3	38232	\$115,000	
	Cement	ton	1	1606	\$2,000	
	Curing Coat	sy	3	38232	\$115,000	
	Proof Rolling	hr	110	20	\$2,000	
	Granular Material Type B	cy	28	924	\$26,000	
	Geotextile Fabric, Type D	sy	2	924	\$2,000	
	Sub Total				924	\$686,000
Erosion Control	Seeding	sy	1	120867	\$121,000	
	Item 832	each	17,000	1	\$17,000	
	Erosion Control Plan	Lump	20,000	1	\$20,000	
Sub Total					\$158,000	
Pavement	Asphalt Pavement (Incl 304)	sy	41	35825	\$1,469,000	
	3" Overlay (448)	sy	10	16300	\$156,000	
	Milling	sy	1	16300	\$16,000	
	Driveway & Apron	each	1500	49	\$74,000	
	Curb	ft	10	250	\$3,000	
	Curb Ramp	each	760	0	\$0	
	Underdrain	ft	8	25869	\$207,000	
	Clearing & Grubbing	acre	1650	27	\$45,000	
	Sub Total				27	\$1,970,000
	Drainage	Storm Sewer	ft	75	219	\$16,000
		Drive Pipes	ft	75	1287	\$97,000
		Manhole (MH3)	each	3000	1	\$3,000
Catch Basin 2-2B		each	1500	2	\$3,000	
Catch Basin (CB-2-3)		each	1500	4	\$6,000	
Catch Basin (CB-2-4)		each	1500	1	\$2,000	
Catch Basin (CB-3)		each	1500	0	\$0	
Catch Basin (CB-3A)		each	1500	1	\$2,000	
Headwall (HW2.1)		each	1500	0	\$0	
Headwall (HW2.2)		each	1500	16	\$24,000	
Sub Total					16	\$153,000
Culverts		Existing Pipe Removal	ft	25	271	\$7,000
	Existing Box Removal	sqft	18	588	\$11,000	
	Existing wingwall Removal	sqft	1400	36	\$50,000	
Sub Total Removal				36	\$68,000	
Sub Total Const.	Conduit Type A: < 5'	ft	350	885	\$310,000	
	Box Culvert STA. 64+23.58	ft	2000	54	\$108,000	
Sub Total				54	\$418,000	
Traffic Control	Signs	mile	32,500	2.45	\$80,000	
	Pavement Marking	mile	12,000	2.45	\$30,000	
						\$110,000
Sub Total					\$188,000	
Waterwork	12" Water Main	ft	110	1713	\$5,000	
	Service Connections	each	1300	4	\$137,000	
	Temp. Water service	ft	80	1713	\$35,000	
	Hydrant	each	5,900	6	\$365,000	
Sub Total				6	\$365,000	
Sub-Total					\$3,932,000	
Right of Way	RW Costs	Acre	25000	24.97	\$630,000	
	Misc. Costs					
Misc. Costs	Performance Bond	Add 0.5%	0.005		\$20,000	
	Field Office, Type B	month	1,500	12	\$18,000	
	Mobilization	Lump			\$157,280	
	Lay Out Stakes	Add 0.5%	0.005		\$20,000	
	MOT	Add 2%	0.02		\$79,000	
Total (Including ROW & Misc. Costs)						
			Add 15%		\$4,860,000	
Contingency				0.15	\$729,000	
Total				2010	\$5,590,000	
Inflation			Add 16.3%		\$912,000	
				2013	\$6,502,000	
GRAND TOTAL					\$6,502,000	

Note: The costs shown in this estimate represent an estimate of probable construction costs prepared in good faith and with reasonable care. HNTB has no control over the costs of construction labor, materials, or equipment, nor over competitive bidding or negotiating methods and does not make any commitment or assume any duty to assure that bids or negotiated prices will not vary from this estimate.

Engineers Estimate of Probable Construction Cost
Project 2 - Hallie Lane to Faye Drive
LIC-Thornwood Drive

PID 78116

Safety Improvement Project

Notes:

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Category	Work Item	Unit	Unit \$	PID 78116		
				Stage 1 Estimate Proposed RW = 120'	Item Cost	
Roadway	Guardrail	ft	12	313	\$4,000	
	Excavation	cy	8	2499	\$20,000	
	Fill	cy	10	11938	\$119,000	
	Excavation of Subgrade	cy	10	490	\$5,000	
	Embankment	cy	9	294	\$3,000	
	Cement Stabilized Subgrade (16")	sy	4	12300	\$49,000	
	Cement	ton	1	527	\$1,000	
	Curing Coat	sy	1	9402	\$9,000	
	Proof Rolling	hr	122	5	\$1,000	
	Granular Material, Type B	cy	31	196	\$6,000	
Geotextile Fabric, Type D	sy	2	196	\$392		
Sub Total					\$217,392	
Erosion Control	Seeding	sy	1	25667	\$25,667	
	Item 832	each	6,000	1	\$6,000	
	Erosion Control Plan	Lump	10,000	1	\$10,000	
	Sub Total					\$41,667
Pavement	Asphalt Pavement (Incl 304)	sy	41	12300	\$504,000	
	3" Overlay (448)	sy	10	3044	\$29,000	
	Milling	sy	1	1751	\$2,000	
	Driveway & Apron	each	1500	8	\$12,000	
	Curb	ft	10	203	\$2,000	
	Curb Ramp	each	760	0	\$0	
	Underdrain	ft	8	5529	\$44,000	
	Clearing and Grubbing	acre	1650	7	\$12,000	
	Sub Total					\$44,000
	Drainage	Storm Sewer	ft	75	0	\$0
Drive Pipes		ft	75	40	\$3,000	
Manhole (MH3)		each	3000	0	\$0	
Catch Basin 2-2B		each	1500	0	\$0	
Catch Basin (CB-2-3)		each	1500	0	\$0	
Catch Basin (CB-2-4)		each	1500	0	\$0	
Catch Basin (CB-3)		each	1500	0	\$0	
Catch Basin (CB-3A)		each	1500	0	\$0	
Headwall (HW2.1)		each	1500	0	\$0	
Headwall (HW2.2)		each	1500	0	\$0	
Sub Total					\$3,000	
Traffic Control	Signs	mile	32,500	0.51	\$20,000	
	Pavement Marking	mile	12,000	0.51	\$10,000	
Sub Total					\$30,000	
Waterwork	12" Water Main	ft	110	400	\$44,000	
	Service Connections	each	1300	1	\$1,000	
	Temp. Water service	ft	80	347	\$28,000	
	Hydrant	each	5,900	2	\$12,000	
Sub Total					\$85,000	
Sub-Total					\$807,620	
Right of Way	RW Costs	Acre	25000	5.30	\$140,000	
	Sub Total					
Misc. Costs	RR Crossing	Lump			\$100,000	
	Performance Bond	Add 0.75%	0.0075		\$6,000	
	Field Office, Type B	month	1,500	12	\$18,000	
	Mobilization	Lump			\$32,305	
	Lay Out Stakes	Add 0.75%	0.0075		\$6,000	
MOT	Add 2%	0.02		\$16,000		
Total (Including ROW & Misc. Costs)						
Contingency						
			Add 15%	0.15	\$170,000	
Total			2010		\$1,300,000	
Inflation			Add 16.3%	0.163	\$212,000	
2013					\$1,512,000	

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Engineers Estimate of Probable Construction Cost

Project 3 - Faye Drive to End Project

LIC-Thornwood Drive

PID 78116

Safety Improvement Project

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Category	Work Item	Unit	Unit \$	PID 78116		
				Stage 1 Estimate Proposed ROW = 120'	Item Cost	
Roadway	Guardrail	ft	12	2894	\$35,000	
	Excavation	cy	8	5703	\$46,000	
	Fill	cy	10	22461	\$225,000	
	Excavation of subgrade	cy	10	710	\$7,000	
	Embankment	cy	8	420	\$3,000	
	Cement Stabilized Subgrade (16")	sy	3	29200	\$88,000	
	Cement	ton	1	1227	\$1,000	
	Curing Coat	sy	1	29200	\$29,000	
	Proof Rolling	hr	113	15	\$2,000	
	Granular Material, Type B	cy	30	280	\$8,000	
	Geotextile Fabric, Type D	sy	2	280	\$560	
	Sub Total					\$444,560
Erosion Control	Seeding	sy	1	45133	\$45,133	
	Item 832	each	10,000	1	\$10,000	
	Erosion Control Plan	Lump	10,000	1	\$10,000	
	Sub Total					\$65,133
Pavement	Asphalt Pavement (Incl 304)	sy	41	29200	\$1,197,000	
	3" Overlay (448)	sy	10	1212	\$12,000	
	Milling	sy	1	1212	\$1,000	
	Driveway & Apron	each	1500	27	\$41,000	
	Curb	ft	10	4352	\$44,000	
	Curb Ramp	each	760	8	\$6,000	
	Underdrain	ft	8	10502	\$84,000	
	Clearing & Grubbing	acre	1650	14	\$22,000	
	Sub Total					\$1,407,000
	Drainage	Storm Sewer	ft	75	3307	\$248,000
		Drive Pipes	ft	75	173	\$133,000
		Manhole (MH3)	each	3000	6	\$18,000
Catch Basin 2-2B		each	1500	6	\$9,000	
Culverts	Catch Basin (CB-2-3)	each	1500	1	\$2,000	
	Catch Basin (CB-2-4)	each	1500	1	\$2,000	
	Catch Basin (CB-3)	each	1500	1	\$2,000	
	Catch Basin (CB-3A)	each	1500	17	\$26,000	
	Head Wall (HW2.1)	each	1500	2	\$3,000	
	Headwall (HW2.2)	each	1500	6	\$9,000	
Sub Total					\$452,000	
Sub Total	Conduit Type A: < 5'	ft	350	177	\$61,950	
	Sub Total				\$61,950	
Traffic Control	Signs	mile	32,500	1	\$30,000	
	Pavement Marking	mile	12,000	1	\$10,000	
	Sub Total				\$40,000	
Waterwork	12" Water Main	ft	110	700	\$77,000	
	Service Connections	each	1300	2	\$3,000	
	Temp. Water service	ft	80	700	\$56,000	
	Hydrant	each	5,900	3	\$18,000	
Sub Total					\$154,000	
Sub-Total					\$2,624,643	
Right of Way	RW Costs	Acre	25000	9.32	\$240,000	
	Sub Total				\$240,000	
Misc. Costs	Performance Bond	Add 0.75%	0.0075		\$20,000	
	Field Office, Type B	month	1,500	12	\$18,000	
	Mobilization	Lump			\$104,986	
	Lay Out Stakes	Add 0.75%	0.0075		\$20,000	
MOT	Add 2%	0.02			\$52,000	
Total (Including ROW & Misc. Costs)					\$3,080,000	
Contingency		Add 15%		0.15	\$462,000	
Total		2010			\$3,550,000	
Inflation		Add 16.3%		0.163	\$579,000	
GRAND TOTAL		2013			\$4,129,000	

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