

APPENDIX B: PLANNING LEVEL COST ESTIMATES

US 31 South PEL Study

Level 3 Screening

Miami Central

Package 1

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	22313	CYS	\$ 36	\$ 803,000
303-01180	Compacted Aggregate No. 53	9672	TON	\$ 81	\$ 783,000
203-02070	Borrow	17721	CYS	\$ 35	\$ 620,000
207-12635	Subgrade Treatment Type IBC	39607	SYS	\$ 35	\$ 1,386,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	6615	TON	\$ 144	\$ 953,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	5447	TON	\$ 166	\$ 904,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	26142	TON	\$ 113	\$ 2,954,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	5942	TON	\$ 110	\$ 654,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	18264	SF	\$ 175	\$ 3,196,000
Unquantified Items (as percentage of items above)		52%			\$ 6,372,000
Sub-Total					\$ 18,625,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total			\$	18,625,000	to \$ 25,144,000
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Construction Cost					\$ 21,233,000 to \$ 28,664,000
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design:		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Cost in 2024 Dollars					\$ 26,103,000 to \$ 35,239,000

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US 31 South PEL Study

Level 3 Screening

Miami Central

Package 2

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	19435	CYS	\$ 36	\$ 700,000
303-01180	Compacted Aggregate No. 53	7593	TON	\$ 81	\$ 615,000
203-02070	Borrow	29719	CYS	\$ 35	\$ 1,040,000
207-12635	Subgrade Treatment Type IBC	45949	SYS	\$ 35	\$ 1,608,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	5368	TON	\$ 144	\$ 773,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	6320	TON	\$ 166	\$ 1,049,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	30328	TON	\$ 113	\$ 3,427,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	6895	TON	\$ 110	\$ 758,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	15026	SF	\$ 175	\$ 2,630,000
Unquantified Items (as percentage of items above)		52%			\$ 6,552,000
Sub-Total					\$ 19,152,000
Contingency					0% to 35%
Expected Range of Construction Cost Sub-Total					\$ 19,152,000 to \$ 25,855,000
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:					
Qty	Unit	Unit Cost	Construction Cost		
				\$	-
				\$	-
				\$	-
Opinion of Probable Construction Cost					\$ 21,834,000 to \$ 29,475,000
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design:					
Qty	Unit	Unit Cost	Construction Cost		
				\$	-
				\$	-
				\$	-
				\$	-
Opinion of Probable Cost in 2024 Dollars					\$ 27,195,000 to \$ 36,712,000

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Level 3 Screening

Miami Central

Package 3

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	19425	CYS	\$ 36	\$ 699,000
303-01180	Compacted Aggregate No. 53	6455	TON	\$ 81	\$ 523,000
203-02070	Borrow	11619	CYS	\$ 35	\$ 407,000
207-12635	Subgrade Treatment Type IBC	33516	SYS	\$ 35	\$ 1,173,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	5289	TON	\$ 144	\$ 762,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	4610	TON	\$ 166	\$ 765,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	22122	TON	\$ 113	\$ 2,500,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	5029	TON	\$ 110	\$ 553,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	0	SF	\$ 175	\$ -
Unquantified Items (as percentage of items above)		52%		\$	\$ 3,839,000
Sub-Total					\$ 11,221,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total					\$ 11,221,000 to \$ 15,148,000
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:					
Opinion of Probable Construction Cost					\$ 12,791,000 to \$ 17,268,000
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design:					
Opinion of Probable Cost in 2024 Dollars					\$ 15,826,000 to \$ 21,365,000

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US 31 South PEL Study

Level 3 Screening

Miami Central

Package 4

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	2412	CYS	\$ 36	\$ 87,000
303-01180	Compacted Aggregate No. 53	3891	TON	\$ 81	\$ 315,000
203-02070	Borrow	27081	CYS	\$ 35	\$ 948,000
207-12635	Subgrade Treatment Type IBC	29844	SYS	\$ 35	\$ 1,045,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	2463	TON	\$ 144	\$ 355,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	4036	TON	\$ 166	\$ 670,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	19038	TON	\$ 113	\$ 2,151,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	5124	TON	\$ 110	\$ 564,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	15026	SF	\$ 175	\$ 2,630,000
Unquantified Items (as percentage of items above)		52%			\$ 4,558,000
Sub-Total					\$ 13,323,000
Contingency					0% to 35%
Expected Range of Construction Cost Sub-Total					\$ 13,323,000 to \$ 17,986,000
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:		Qty	Unit	Unit Cost	Construction Cost
					\$ -
					\$ -
					\$ -
Opinion of Probable Construction Cost					\$ 15,187,000 to \$ 20,504,000
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design:		Qty	Unit	Unit Cost	Construction Cost
					\$ -
					\$ -
					\$ -
					\$ -
Opinion of Probable Cost in 2024 Dollars					\$ 18,804,000 to \$ 25,388,000

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US 31 South PEL Study

Level 3 Screening

Peru

Package 1

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	11476	CYS	\$ 36	\$ 413,000
303-01180	Compacted Aggregate No. 53	9983	TON	\$ 81	\$ 809,000
203-02070	Borrow	151229	CYS	\$ 35	\$ 5,293,000
207-12635	Subgrade Treatment Type IBC	52404	SYS	\$ 35	\$ 1,834,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	9233	TON	\$ 144	\$ 1,330,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	7209	TON	\$ 166	\$ 1,197,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	34590	TON	\$ 113	\$ 3,909,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	7864	TON	\$ 110	\$ 865,000
618-06192	Wall	3157	LFT	\$ 793	\$ 2,504,000
n/a	BRIDGES	14571	SF	\$ 175	\$ 2,550,000
Unquantified Items (as percentage of items above)		52%		\$	\$ 10,766,000
Sub-Total					\$ 31,470,000
Contingency					0% to 35%
Expected Range of Construction Cost Sub-Total			\$	\$ 31,470,000 to \$ 42,485,000	
Construction Engineering		2%	\$	629,000	to \$ 850,000
Mob/Demob		5%	\$	1,574,000	to \$ 2,124,000
Clearing Right of Way		2%	\$	629,000	to \$ 850,000
MOT		5%	\$	1,574,000	to \$ 2,124,000
Additional construction costs not accounted for above:					
		Qty	Unit	Unit Cost	Construction Cost
				\$	-
				\$	-
Opinion of Probable Construction Cost			\$	\$ 35,876,000 to \$ 48,433,000	
UT Cost		7.0%	\$	2,511,000	to \$ 3,390,000
Preliminary Engineering		15%	\$	5,381,000	to \$ 7,265,000
RW Cost		\$		1,051,000	to \$ 1,419,000
Additional items not accounted for at this stage in design:					
		Qty	Unit	Unit Cost	Construction Cost
				\$	-
				\$	-
				\$	-
Opinion of Probable Cost in 2024 Dollars			\$	\$ 44,819,000 to \$ 60,507,000	

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US 31 South PEL Study

Level 3 Screening

Peru

Package 2

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	10122	CYS	\$ 36	\$ 364,000
303-01180	Compacted Aggregate No. 53	10381	TON	\$ 81	\$ 841,000
203-02070	Borrow	154238	CYS	\$ 35	\$ 5,398,000
207-12635	Subgrade Treatment Type IBC	54644	SYS	\$ 35	\$ 1,913,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	9383	TON	\$ 144	\$ 1,351,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	7518	TON	\$ 166	\$ 1,248,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	36068	TON	\$ 113	\$ 4,076,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	8199	TON	\$ 110	\$ 902,000
618-06192	Wall	3157	LFT	\$ 793	\$ 2,504,000
n/a	BRIDGES	76281	SF	\$ 175	\$ 13,349,000
Unquantified Items (as percentage of items above)		52%		\$	\$ 16,612,000
Sub-Total					\$ 48,558,000
Contingency					0% to 35%
Expected Range of Construction Cost Sub-Total			\$	48,558,000	to \$ 65,553,000
Construction Engineering		2%	\$	971,000	to \$ 1,311,000
Mob/Demob		5%	\$	2,428,000	to \$ 3,278,000
Clearing Right of Way		2%	\$	971,000	to \$ 1,311,000
MOT		5%	\$	2,428,000	to \$ 3,278,000
Additional construction costs not accounted for above:					
		Qty	Unit	Unit Cost	Construction Cost
				\$	-
				\$	-
Opinion of Probable Construction Cost			\$	55,356,000	to \$ 74,731,000
UT Cost		7.0%	\$	3,875,000	to \$ 5,231,000
Preliminary Engineering		15%	\$	8,303,000	to \$ 11,210,000
RW Cost		\$		1,051,000	to \$ 1,419,000
Additional items not accounted for at this stage in design:					
		Qty	Unit	Unit Cost	Construction Cost
				\$	-
				\$	-
				\$	-
Opinion of Probable Cost in 2024 Dollars			\$	68,585,000	to \$ 92,591,000

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US 31 South PEL Study

Level 3 Screening

Peru

Package 3

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	18599	CYS	\$ 36	\$ 670,000
303-01180	Compacted Aggregate No. 53	11725	TON	\$ 81	\$ 950,000
203-02070	Borrow	1030928	CYS	\$ 35	\$ 36,082,000
207-12635	Subgrade Treatment Type IBC	87632	SYS	\$ 35	\$ 3,067,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	11947	TON	\$ 144	\$ 1,720,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	12052	TON	\$ 166	\$ 2,001,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	57840	TON	\$ 113	\$ 6,536,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	13149	TON	\$ 110	\$ 1,446,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	147200	SF	\$ 175	\$ 25,760,000
Unquantified Items (as percentage of items above)		52%		\$	\$ 40,681,000
Sub-Total					\$ 118,913,000
Contingency					0%
Expected Range of Construction Cost Sub-Total					\$ 118,913,000 to \$ 160,533,000
Construction Engineering		2%	\$	2,378,000	to \$ 3,211,000
Mob/Demob		5%	\$	5,946,000	to \$ 8,027,000
Clearing Right of Way		2%	\$	2,378,000	to \$ 3,211,000
MOT		5%	\$	5,946,000	to \$ 8,027,000
Additional construction costs not accounted for above:					
		Qty	Unit	Unit Cost	Construction Cost
				\$	-
				\$	-
Opinion of Probable Construction Cost					\$ 135,561,000 to \$ 183,009,000
UT Cost		7.0%	\$	9,489,000	to \$ 12,811,000
Preliminary Engineering		15%	\$	20,334,000	to \$ 27,451,000
RW Cost		\$	4,223,000	to \$ 5,700,000	
Additional items not accounted for at this stage in design:					
		Qty	Unit	Unit Cost	Construction Cost
				\$	-
				\$	-
				\$	-
Opinion of Probable Cost in 2024 Dollars					\$ 169,607,000 to \$ 228,971,000

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US 31 South PEL Study

Level 3 Screening

Peru

Package 4

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	18916	CYS	\$ 36	\$ 681,000
303-01180	Compacted Aggregate No. 53	9873	TON	\$ 81	\$ 800,000
203-02070	Borrow	1037276	CYS	\$ 35	\$ 36,305,000
207-12635	Subgrade Treatment Type IBC	83789	SYS	\$ 35	\$ 2,933,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	10194	TON	\$ 144	\$ 1,468,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	11524	TON	\$ 166	\$ 1,913,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	55304	TON	\$ 113	\$ 6,249,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	12572	TON	\$ 110	\$ 1,383,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	134702	SF	\$ 175	\$ 23,573,000
Unquantified Items (as percentage of items above)		52%		\$	\$ 39,159,000
Sub-Total					\$ 114,464,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total			\$	\$ 114,464,000 to \$ 154,526,000	
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:		Qty	Unit	Unit Cost	Construction Cost
				\$	\$ -
				\$	\$ -
Opinion of Probable Construction Cost			\$	\$ 130,488,000 to \$ 176,160,000	
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design:		Qty	Unit	Unit Cost	Construction Cost
				\$	\$ -
				\$	\$ -
				\$	\$ -
Opinion of Probable Cost in 2024 Dollars			\$	\$ 166,592,000 to \$ 224,905,000	

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US 31 South PEL Study

Level 3 Screening

Peru

Package 5

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	18916	CYS	\$ 36	\$ 681,000
303-01180	Compacted Aggregate No. 53	9873	TON	\$ 81	\$ 800,000
203-02070	Borrow	1037276	CYS	\$ 35	\$ 36,305,000
207-12635	Subgrade Treatment Type IBC	83789	SYS	\$ 35	\$ 2,933,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	10194	TON	\$ 144	\$ 1,468,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	11524	TON	\$ 166	\$ 1,913,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	55304	TON	\$ 113	\$ 6,249,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	12572	TON	\$ 110	\$ 1,383,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	134702	SF	\$ 175	\$ 23,573,000
Unquantified Items (as percentage of items above)		52%		\$	\$ 39,159,000
Sub-Total					\$ 114,464,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total			\$	\$ 114,464,000 to \$ 154,526,000	
Construction Engineering		2%	\$	2,289,000	to \$ 3,091,000
Mob/Demob		5%	\$	5,723,000	to \$ 7,726,000
Clearing Right of Way		2%	\$	2,289,000	to \$ 3,091,000
MOT		5%	\$	5,723,000	to \$ 7,726,000
Additional construction costs not accounted for above:					
		Qty	Unit	Unit Cost	Construction Cost
				\$	-
				\$	-
Opinion of Probable Construction Cost			\$	\$ 130,488,000 to \$ 176,160,000	
UT Cost		7.0%	\$	9,134,000	to \$ 12,331,000
Preliminary Engineering		15%	\$	19,573,000	to \$ 26,424,000
RW Cost		\$	15,161,000	to \$ 20,470,000	
Additional items not accounted for at this stage in design:					
		Qty	Unit	Unit Cost	Construction Cost
				\$	-
				\$	-
				\$	-
Opinion of Probable Cost in 2024 Dollars			\$	\$ 174,356,000 to \$ 235,385,000	

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US 31 South PEL Study

Level 3 Screening

Grissom Package 1

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-02000	Excavation Common	30,169	CYS	\$ 36	\$ 1,086,000
303-01180	Compacted Aggregate No. 53	15,575	TON	\$ 81	\$ 1,262,000
203-02070	Borrow	14,086	CYS	\$ 35	\$ 493,000
207-12635	Subgrade Treatment Type IBC	59,958	SYS	\$ 35	\$ 2,099,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	11,757	TON	\$ 144	\$ 1,693,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	8,249	TON	\$ 166	\$ 1,369,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	39,577	TON	\$ 113	\$ 4,472,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	9,000	TON	\$ 110	\$ 990,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	27,734	SF	\$ 175	\$ 4,853,000
Unquantified Items (as percentage of items above)		52%		\$	\$ 9,525,000

Sub-Total			\$	27,842,000
Contingency			0%	35%
Expected Range of Construction Cost Sub-Total			\$	27,842,000 to \$ 37,587,000

Construction Engineering	2%	\$	557,000	to	\$	752,000
Mob/Demob	5%	\$	1,392,000	to	\$	1,879,000
Clearing Right of Way	2%	\$	557,000	to	\$	752,000
MOT	5%	\$	1,392,000	to	\$	1,879,000

Additional construction costs not accounted for above:	Qty	Unit	Unit Cost	Construction Cost
				\$ -
				\$ -
				\$ -
Opinion of Probable Construction Cost			\$	31,740,000 to \$ 42,849,000

UT Cost	7.0%	\$	2,222,000	to	\$	2,999,000
Preliminary Engineering	15%	\$	4,761,000	to	\$	6,427,000
RW Cost		\$	376,000	to	\$	508,000

Additional items not accounted for at this stage in design:	Qty	Unit	Unit Cost	Construction Cost
				\$ -
				\$ -
				\$ -

Opinion of Probable Cost in 2024 Dollars	to \$	39,099,000	to \$	52,783,000
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US 31 South PEL Study

Level 3 Screening

Grissom Package 2

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-02000	Excavation Common	29,260	CYS	\$ 36	\$ 1,053,000
303-01180	Compacted Aggregate No. 53	16,267	TON	\$ 81	\$ 1,318,000
211-02070	Borrow	12,868	CYS	\$ 35	\$ 450,000
207-12635	Subgrade Treatment Type IBC	73,752	SYS	\$ 35	\$ 2,581,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	13,095	TON	\$ 144	\$ 1,886,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	10,146	TON	\$ 166	\$ 1,684,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	48,681	TON	\$ 113	\$ 5,501,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	11,069	TON	\$ 110	\$ 1,218,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	27,734	SF	\$ 175	\$ 4,853,000
Unquantified Items (as percentage of items above)		52%			\$ 10,683,000

Sub-Total \$ 31,227,000

Contingency 0% 35%

Expected Range of Construction Cost Sub-Total \$ 31,227,000 to \$ 42,156,000

Construction Engineering 2% \$ 625,000 to \$ 843,000

Mob/Demob 5% \$ 1,561,000 to \$ 2,108,000

Clearing Right of Way 2% \$ 625,000 to \$ 843,000

MOT 5% \$ 1,561,000 to \$ 2,108,000

Additional construction costs not accounted for above: **Qty** **Unit** **Unit Cost** **Construction Cost**

				\$ -
				\$ -
				\$ -

Opinion of Probable Construction Cost \$ 35,599,000 to \$ 48,058,000

UT Cost 7.0% \$ 2,492,000 to \$ 3,364,000

Preliminary Engineering 15% \$ 5,340,000 to \$ 7,209,000

RW Cost \$ 364,000 to \$ 491,000

Additional items not accounted for at this stage in design: **Qty** **Unit** **Unit Cost** **Construction Cost**

				\$ -
				\$ -
				\$ -

Opinion of Probable Cost in 2024 Dollars \$ 43,795,000 to \$ 59,122,000

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US 31 South PEL Study

Level 3 Screening

Grissom Package 3

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-02000	Excavation Common	34,558	CYS	\$ 36	\$ 1,244,000
303-01180	Compacted Aggregate No. 53	15,822	TON	\$ 81	\$ 1,282,000
211-020570	Borrow	15,120	CYS	\$ 35	\$ 529,000
207-12635	Subgrade Treatment Type IBC	62,318	SYS	\$ 35	\$ 2,181,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	12,145	TON	\$ 144	\$ 1,749,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	8,574	TON	\$ 166	\$ 1,423,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	41,136	TON	\$ 113	\$ 4,648,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	9,353	TON	\$ 110	\$ 1,029,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	33,550	SF	\$ 175	\$ 5,871,000
Unquantified Items (as percentage of items above)		52%			\$ 10,377,000
Sub-Total					\$ 30,333,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total					\$ 30,333,000 to \$ 40,950,000
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Construction Cost					\$ 34,581,000 to \$ 46,684,000
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Cost in 2023 Dollars					\$ 42,623,000 to \$ 57,541,000

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US 31 South PEL Study

Level 3 Screening

Grissom Package 4

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-02000	Excavation Common	117,058	CYS	\$ 36	\$ 4,214,000
303-01180	Compacted Aggregate No. 53	11,349	TON	\$ 81	\$ 919,000
211-02070	Borrow	502,599	CYS	\$ 35	\$ 17,591,000
207-12635	Subgrade Treatment Type IBC	156,491	SYS	\$ 35	\$ 5,477,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	15,727	TON	\$ 144	\$ 2,265,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	21,521	TON	\$ 166	\$ 3,572,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	103,287	TON	\$ 113	\$ 11,671,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	23,478	TON	\$ 110	\$ 2,583,000
618-06192	Wall	1,362	LFT	\$ 793	\$ 1,080,000
n/a	BRIDGES	47,028	SF	\$ 175	\$ 8,230,000
Unquantified Items (as percentage of items above)		52%			\$ 29,953,000
Sub-Total					\$ 87,555,000
Contingency					0% to 35%
Expected Range of Construction Cost Sub-Total					\$ 87,555,000 to \$ 118,199,000
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:					
Qty					
Opinion of Probable Construction Cost					
\$ 99,813,000 to \$ 134,747,000					
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design					
Qty					
Opinion of Probable Cost in 202 Dollars					
\$ 124,206,000 to \$ 167,677,000					

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US 31 South PEL Study

Level 3 Screening

Grissom Package 5 Summary

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-02000	Excavation Common	35,535	CYS	\$ 36	\$ 1,279,000
303-01180	Compacted Aggregate No. 53	10,274	TON	\$ 81	\$ 832,000
211-02070	Borrow	380,024	CYS	\$ 35	\$ 13,301,000
207-12635	Subgrade Treatment Type IBC	140,127	SYS	\$ 35	\$ 4,904,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	13,776	TON	\$ 144	\$ 1,984,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	19,272	TON	\$ 166	\$ 3,199,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	92,486	TON	\$ 113	\$ 10,451,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	21,023	TON	\$ 110	\$ 2,313,000
618-06192	Wall	1,362	LFT	\$ 793	\$ 1,080,000
n/a	BRIDGES	45,776	SF	\$ 175	\$ 8,011,000
Unquantified Items (as percentage of items above)		52%			\$ 24,624,000

Sub-Total				\$ 71,978,000
Contingency			0%	35%
Expected Range of Construction Cost Sub-Total			\$ 71,978,000 to \$ 97,170,000	

Construction Engineering	2%	\$ 1,440,000	to \$ 1,943,000
Mob/Demob	5%	\$ 3,599,000	to \$ 4,859,000
Clearing Right of Way	2%	\$ 1,440,000	to \$ 1,943,000
MOT	5%	\$ 3,599,000	to \$ 4,859,000

Additional construction costs not accounted for above:	Qty	Unit	Unit Cost	Construction Cost
				\$ -
				\$ -
				\$ -
Opinion of Probable Construction Cost			\$ 82,056,000 to \$ 110,774,000	

UT Cost	7.0%	\$ 5,744,000	to \$ 7,754,000
Preliminary Engineering	15%	\$ 12,308,000	to \$ 16,616,000
RW Cost		\$ 6,367,000	to \$ 8,595,000

Additional items not accounted for at this stage in design	Qty	Unit	Unit Cost	Construction Cost
				\$ -
				\$ -
				\$ -

Opinion of Probable Cost in 2024 Dollars		\$ 106,475,000 to \$ 143,739,000
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US 31 South PEL Study

Level 3 Screening

Package 6 Summary

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-02000	Excavation Common	161,417	CYS	\$ 36	\$ 5,811,000
303-01180	Compacted Aggregate No. 53	17,900	TON	\$ 81	\$ 1,450,000
211-02070	Borrow	899,088	CYS	\$ 35	\$ 31,468,000
207-12635	Subgrade Treatment Type IBC	185,159	SYS	\$ 35	\$ 6,481,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	16,238	TON	\$ 144	\$ 2,338,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	25,462	TON	\$ 166	\$ 4,227,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	122,210	TON	\$ 113	\$ 13,810,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	27,777	TON	\$ 110	\$ 3,055,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	74,509	SF	\$ 175	\$ 13,039,000
Unquantified Items (as percentage of items above)		52%			\$ 42,473,000
Sub-Total					\$ 124,152,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total			\$	\$ 124,152,000	to \$ 167,605,000
Construction Engineering 2% \$ 2,483,000 to \$ 3,352,000					
Mob/Demob 5% \$ 6,208,000 to \$ 8,380,000					
Clearing Right of Way 2% \$ 2,483,000 to \$ 3,352,000					
MOT 5% \$ 6,208,000 to \$ 8,380,000					
Additional construction costs not accounted for above:		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Construction Cost			\$	\$ 141,534,000	to \$ 191,069,000
UT Cost 7.0% \$ 9,907,000 to \$ 13,375,000					
Preliminary Engineering 15% \$ 21,230,000 to \$ 28,660,000					
RW Cost \$ 13,805,000 to \$ 18,637,000					
Additional items not accounted for at this stage in design		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Cost in 2024 Dollars			\$	\$ 186,476,000	to \$ 251,741,000

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US 31 South PEL Study

Level 3 Screening

Miami South Package 1

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	12989	CYS	\$ 36	\$ 468,000
303-01180	Compacted Aggregate No. 53	12143	TON	\$ 81	\$ 984,000
203-02070	Borrow	2111	CYS	\$ 35	\$ 74,000
207-12635	Subgrade Treatment Type IBC	44586	SYS	\$ 35	\$ 1,560,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	9645	TON	\$ 144	\$ 1,389,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	6137	TON	\$ 166	\$ 1,019,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	29433	TON	\$ 113	\$ 3,326,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	6693	TON	\$ 110	\$ 736,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	0	SF	\$ 175	\$ -
Unquantified Items (as percentage of items above)		52%		\$	\$ 4,969,000
Sub-Total					\$ 14,525,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total					\$ 14,525,000 to \$ 19,609,000
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Construction Cost					\$ 16,559,000 to \$ 22,353,000
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Cost in 2024 Dollars					\$ 20,319,000 to \$ 27,429,000

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US 31 South PEL Study

Level 3 Screening

Miami South Package 2

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	17228	CYS	\$ 36	\$ 620,000
303-01180	Compacted Aggregate No. 53	14164	TON	\$ 81	\$ 1,147,000
203-02070	Borrow	5099	CYS	\$ 35	\$ 178,000
207-12635	Subgrade Treatment Type IBC	42227	SYS	\$ 35	\$ 1,478,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	10426	TON	\$ 144	\$ 1,501,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	6406	TON	\$ 166	\$ 1,063,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	27875	TON	\$ 113	\$ 3,150,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	6339	TON	\$ 110	\$ 697,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	0	SF	\$ 175	\$ -
Unquantified Items (as percentage of items above)		52%		\$	\$ 5,114,000
Sub-Total					\$ 14,948,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total					\$ 14,948,000 to \$ 20,180,000
Construction Engineering					2% \$ 299,000 to \$ 404,000
Mob/Demob					5% \$ 747,000 to \$ 1,009,000
Clearing Right of Way					2% \$ 299,000 to \$ 404,000
MOT					5% \$ 747,000 to \$ 1,009,000
Additional construction costs not accounted for above:		Qty	Unit	Unit Cost	Construction Cost
					\$ -
					\$ -
					\$ -
Opinion of Probable Construction Cost					\$ 17,040,000 to \$ 23,006,000
UT Cost					7.0% \$ 1,193,000 to \$ 1,610,000
Preliminary Engineering					15% \$ 2,556,000 to \$ 3,451,000
RW Cost					\$ 143,000 to \$ 193,000
Additional items not accounted for at this stage in design:		Qty	Unit	Unit Cost	Construction Cost
					\$ -
					\$ -
					\$ -
Opinion of Probable Cost in 2024 Dollars					\$ 20,932,000 to \$ 28,260,000

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US 31 South PEL Study

Level 3 Screening

Miami South Package 3

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	26548	CYS	\$ 36	\$ 956,000
303-01180	Compacted Aggregate No. 53	11682	TON	\$ 81	\$ 946,000
203-02070	Borrow	485301	CYS	\$ 35	\$ 16,986,000
207-12635	Subgrade Treatment Type IBC	110310	SYS	\$ 35	\$ 3,861,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	11499	TON	\$ 144	\$ 1,656,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	15173	TON	\$ 166	\$ 2,519,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	72811	TON	\$ 113	\$ 8,228,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	16551	TON	\$ 110	\$ 1,821,000
618-06192	Wall	1151	LFT	\$ 793	\$ 913,000
n/a	BRIDGES	36194	SF	\$ 175	\$ 6,334,000
Unquantified Items (as percentage of items above)		52%		\$	\$ 22,994,000
Sub-Total					\$ 67,214,000
Contingency					0% to 35%
Expected Range of Construction Cost Sub-Total					\$ 67,214,000 to \$ 90,739,000
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:					
Qty	Unit	Unit Cost	Construction Cost		
				\$	-
				\$	-
				\$	-
				\$	-
Opinion of Probable Construction Cost					\$ 76,624,000 to \$ 103,443,000
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design:					
Qty	Unit	Unit Cost	Construction Cost		
				\$	-
				\$	-
				\$	-
				\$	-
Opinion of Probable Cost in 2024 Dollars					\$ 94,486,000 to \$ 127,555,000

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US 31 South PEL Study

Level 3 Screening

Miami South Package 4

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	26548	CYS	\$ 36	\$ 956,000
303-01180	Compacted Aggregate No. 53	11682	TON	\$ 81	\$ 946,000
203-02070	Borrow	485301	CYS	\$ 35	\$ 16,986,000
207-12635	Subgrade Treatment Type IBC	110310	SYS	\$ 35	\$ 3,861,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	11499	TON	\$ 144	\$ 1,656,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	15173	TON	\$ 166	\$ 2,519,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	72811	TON	\$ 113	\$ 8,228,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	16551	TON	\$ 110	\$ 1,821,000
618-06192	Wall	1151	LFT	\$ 793	\$ 913,000
n/a	BRIDGES	36194	SF	\$ 175	\$ 6,334,000
Unquantified Items (as percentage of items above)		52%			\$ 22,994,000
Sub-Total					\$ 67,214,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total					\$ 67,214,000 to \$ 90,739,000
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:		Qty	Unit	Unit Cost	Construction Cost
					\$ -
					\$ -
					\$ -
					\$ -
Opinion of Probable Construction Cost					\$ 76,624,000 to \$ 103,443,000
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design		Qty	Unit	Unit Cost	Construction Cost
					\$ -
					\$ -
					\$ -
					\$ -
Opinion of Probable Cost in 2024 Dollars					\$ 100,937,000 to \$ 136,264,000

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US 31 South PEL Study

Level 3 Screening

Miami South Package 5

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	30702	CYS	\$ 36	\$ 1,105,000
303-01180	Compacted Aggregate No. 53	9830	TON	\$ 81	\$ 796,000
203-02070	Borrow	492902	CYS	\$ 35	\$ 17,252,000
207-12635	Subgrade Treatment Type IBC	116705	SYS	\$ 35	\$ 4,085,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	10010	TON	\$ 144	\$ 1,441,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	14518	TON	\$ 166	\$ 2,410,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	69674	TON	\$ 113	\$ 7,873,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	15838	TON	\$ 110	\$ 1,742,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	36194	SF	\$ 175	\$ 6,334,000
Unquantified Items (as percentage of items above)		52%			\$ 22,380,000
Sub-Total					\$ 65,418,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total					\$ 65,418,000 to \$ 88,314,000
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Construction Cost					\$ 74,576,000 to \$ 100,678,000
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Cost in 2024 Dollars					\$ 103,262,000 to \$ 139,405,000

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US 31 South PEL Study

Level 3 Screening

Sharpsville Package 1

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	7529	CYS	\$ 36	\$ 271,000
303-01180	Compacted Aggregate No. 53	11498.67	TON	\$ 81	\$ 931,000
203-02070	Borrow	37025	CYS	\$ 35	\$ 1,296,000
207-12635	Subgrade Treatment Type IBC	48783.44	SYS	\$ 35	\$ 1,707,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	6584	TON	\$ 144	\$ 948,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	6711	TON	\$ 166	\$ 1,114,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	32200	TON	\$ 113	\$ 3,639,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	7319	TON	\$ 110	\$ 805,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	12183	SF	\$ 175	\$ 2,132,000
Unquantified Items (as percentage of items above)		52%		\$	\$ 6,678,000
Sub-Total					\$ 19,521,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total					\$ 19,521,000 to \$ 26,353,000
Construction Engineering					\$ 390,000 to \$ 527,000
Mob/Demob					\$ 976,000 to \$ 1,318,000
Clearing Right of Way					\$ 390,000 to \$ 527,000
MOT					\$ 976,000 to \$ 1,318,000
Additional construction costs not accounted for above:					Construction Cost
					\$ -
					\$ -
					\$ -
					\$ -
Opinion of Probable Construction Cost					\$ 22,253,000 to \$ 30,043,000
UT Cost					\$ 1,558,000 to \$ 2,103,000
Preliminary Engineering					\$ 3,338,000 to \$ 4,506,000
RW Cost					\$ 178,000 to \$ 240,000
Additional items not accounted for at this stage in design:					Construction Cost
					\$ -
					\$ -
					\$ -
					\$ -
Opinion of Probable Cost in 2024 Dollars					\$ 27,327,000 to \$ 36,892,000

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US 31 South PEL Study

Level 3 Screening

Sharpsville Package 2

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	7529	CYS	\$ 36	\$ 271,000
303-01180	Compacted Aggregate No. 53	11498.67	TON	\$ 81	\$ 931,000
203-02070	Borrow	37025	CYS	\$ 35	\$ 1,296,000
207-12635	Subgrade Treatment Type IBC	48783.44	SYS	\$ 35	\$ 1,707,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	6584	TON	\$ 144	\$ 948,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	6711	TON	\$ 166	\$ 1,114,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	32200	TON	\$ 113	\$ 3,639,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	7319	TON	\$ 110	\$ 805,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	12183	SF	\$ 175	\$ 2,132,000
Unquantified Items (as percentage of items above)		52%		\$	\$ 6,678,000
Sub-Total					\$ 19,521,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total					\$ 19,521,000 to \$ 26,353,000
Construction Engineering					\$ 390,000 to \$ 527,000
Mob/Demob					\$ 976,000 to \$ 1,318,000
Clearing Right of Way					\$ 390,000 to \$ 527,000
MOT					\$ 976,000 to \$ 1,318,000
Additional construction costs not accounted for above:		Qty	Unit	Unit Cost	Construction Cost
					\$ -
					\$ -
					\$ -
					\$ -
Opinion of Probable Construction Cost					\$ 22,253,000 to \$ 30,043,000
UT Cost					\$ 1,558,000 to \$ 2,103,000
Preliminary Engineering					\$ 3,338,000 to \$ 4,506,000
RW Cost					\$ 1,929,000 to \$ 2,604,000
Additional items not accounted for at this stage in design:		Qty	Unit	Unit Cost	Construction Cost
					\$ -
					\$ -
					\$ -
					\$ -
Opinion of Probable Cost in 2024 Dollars					\$ 29,078,000 to \$ 39,256,000

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US 31 South PEL Study

Level 3 Screening

Sharpsville Package 3

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	3424	CYS	\$ 36	\$ 123,000
303-01180	Compacted Aggregate No. 53	8427	TON	\$ 81	\$ 683,000
203-02070	Borrow	40100	CYS	\$ 35	\$ 1,404,000
207-12635	Subgrade Treatment Type IBC	35631	SYS	\$ 35	\$ 1,247,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	6125	TON	\$ 144	\$ 882,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	4901	TON	\$ 166	\$ 814,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	23519	TON	\$ 113	\$ 2,658,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	5347	TON	\$ 110	\$ 588,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	12183	SF	\$ 175	\$ 2,132,000
Unquantified Items (as percentage of items above)		52%		\$	\$ 5,476,000
Sub-Total					\$ 16,007,000
Contingency					0%
Expected Range of Construction Cost Sub-Total					\$ 16,007,000 to \$ 21,609,000
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Construction Cost					\$ 18,247,000 to \$ 24,633,000
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design:		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Cost in 2024 Dollars					\$ 24,190,000 to \$ 32,656,000

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US 31 South PEL Study

Level 3 Screening

Sharpsville Package 4

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	5843	CYS	\$ 36	\$ 210,000
303-01180	Compacted Aggregate No. 53	6655	TON	\$ 81	\$ 539,000
203-02070	Borrow	36804	CYS	\$ 35	\$ 1,288,000
207-12635	Subgrade Treatment Type IBC	38864	SYS	\$ 35	\$ 1,360,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	4694	TON	\$ 144	\$ 676,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	5346	TON	\$ 166	\$ 887,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	25653	TON	\$ 113	\$ 2,899,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	5832	TON	\$ 110	\$ 642,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	12183	SF	\$ 175	\$ 2,132,000
Unquantified Items (as percentage of items above)		52%		\$	\$ 5,529,000
Sub-Total					\$ 16,162,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total			\$	16,162,000	to \$ 21,819,000
Construction Engineering 2% \$ 323,000 to \$ 436,000					
Mob/Demob 5% \$ 808,000 to \$ 1,091,000					
Clearing Right of Way 2% \$ 323,000 to \$ 436,000					
MOT 5% \$ 808,000 to \$ 1,091,000					
Additional construction costs not accounted for above:					
Qty Unit Unit Cost Construction Cost					
Opinion of Probable Construction Cost					\$ 18,424,000 to \$ 24,873,000
UT Cost 7.0% \$ 1,290,000 to \$ 1,741,000					
Preliminary Engineering 15% \$ 2,764,000 to \$ 3,731,000					
RW Cost \$ 4,069,000 to \$ 5,493,000					
Additional items not accounted for at this stage in design:					
Qty Unit Unit Cost Construction Cost					
Opinion of Probable Cost in 2024 Dollars					\$ 26,547,000 to \$ 35,838,000

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US 31 South PEL Study

Level 3 Screening

Sharpsville Package 5

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	4508	CYS	\$ 36	\$ 162,000
303-01180	Compacted Aggregate No. 53	3368	TON	\$ 81	\$ 273,000
203-02070	Borrow	37349	CYS	\$ 35	\$ 1,307,000
207-12635	Subgrade Treatment Type IBC	27041	SYS	\$ 35	\$ 946,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	2233	TON	\$ 144	\$ 322,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	3721	TON	\$ 166	\$ 618,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	17851	TON	\$ 113	\$ 2,017,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	4058	TON	\$ 110	\$ 446,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	12183	SF	\$ 175	\$ 2,132,000
Unquantified Items (as percentage of items above)		52%		\$	\$ 4,276,000
Sub-Total					\$ 12,499,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total					\$ 12,499,000 to \$ 16,874,000
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:					
Qty	Unit	Unit Cost	Construction Cost		
				\$	-
				\$	-
				\$	-
				\$	-
Opinion of Probable Construction Cost					\$ 14,249,000 to \$ 19,236,000
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design:					
Qty	Unit	Unit Cost	Construction Cost		
				\$	-
				\$	-
				\$	-
				\$	-
Opinion of Probable Cost in 2024 Dollars					\$ 21,553,000 to \$ 29,098,000

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US 31 South PEL Study

Level 3 Screening

Tipton Package 1

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-02000	Excavation Common	7055	CYS	\$ 36	\$ 254,000
303-01180	Compacted Aggregate No. 53	4957.784	TON	\$ 81	\$ 402,000
203-02070	Borrow	975	CYS	\$ 35	\$ 34,000
207-12635	Subgrade Treatment Type IBC	20281.22	SYS	\$ 35	\$ 710,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	3642	TON	\$ 144	\$ 524,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	2791	TON	\$ 166	\$ 463,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	13387	TON	\$ 113	\$ 1,513,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	3043	TON	\$ 110	\$ 335,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	0	SF	\$ 175	\$ -
Unquantified Items (as percentage of items above)		52%		\$	\$ 2,202,000
Sub-Total					\$ 6,437,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total					\$ 6,437,000 to \$ 8,690,000
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Construction Cost					\$ 7,339,000 to \$ 9,908,000
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Cost in 2024 Dollars					\$ 9,269,000 to \$ 12,513,000

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US 31 South PEL Study

Level 3 Screening

Tipton Package 2

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-02000	Excavation Common	7055	CYS	\$ 36	\$ 254,000
303-01180	Compacted Aggregate No. 53	4958	TON	\$ 81	\$ 402,000
203-02070	Borrow	975	CYS	\$ 35	\$ 34,000
207-12635	Subgrade Treatment Type IBC	20281	SYS	\$ 35	\$ 710,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	3642	TON	\$ 144	\$ 524,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	2791	TON	\$ 166	\$ 463,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	13387	TON	\$ 113	\$ 1,513,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	3043	TON	\$ 110	\$ 335,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	0	SF	\$ 175	\$ -
Unquantified Items (as percentage of items above)		52%		\$	\$ 2,202,000

Sub-Total		\$	6,437,000
Contingency		0%	35%
Expected Range of Construction Cost Sub-Total		\$ 6,437,000	to \$ 8,690,000

Construction Engineering	2%	\$ 129,000	to \$ 174,000
Mob/Demob	5%	\$ 322,000	to \$ 435,000
Clearing Right of Way	2%	\$ 129,000	to \$ 174,000
MOT	5%	\$ 322,000	to \$ 435,000

Additional construction costs not accounted for above:	Qty	Unit	Unit Cost	Construction Cost
			\$	-
			\$	-
			\$	-
			\$	-
Opinion of Probable Construction Cost			\$ 7,339,000	to \$ 9,908,000

UT Cost	7.0%	\$ 514,000	to \$ 694,000
Preliminary Engineering	15%	\$ 1,101,000	to \$ 1,486,000
RW Cost		\$ 225,000	to \$ 304,000

Additional items not accounted for at this stage in design:	Qty	Unit	Unit Cost	Construction Cost
			\$	-
			\$	-
			\$	-
			\$	-

Opinion of Probable Cost in 2024 Dollars	\$ 9,179,000	to \$ 12,392,000
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US 31 South PEL Study

Level 3 Screening

Tipton Package 3

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-02000	Excavation Common	7100	CYS	\$ 36	\$ 256,000
303-01180	Compacted Aggregate No. 53	5735	TON	\$ 81	\$ 465,000
203-02070	Borrow	975	CYS	\$ 35	\$ 34,000
207-12635	Subgrade Treatment Type IBC	19225	SYS	\$ 35	\$ 673,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	3613	TON	\$ 144	\$ 520,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	2646	TON	\$ 166	\$ 439,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	12690	TON	\$ 113	\$ 1,434,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	2885	TON	\$ 110	\$ 317,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	0	SF	\$ 175	\$ -
Unquantified Items (as percentage of items above)		52%		\$	\$ 2,152,000
Sub-Total					\$ 6,290,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total					\$ 6,290,000 to \$ 8,492,000
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Construction Cost					\$ 7,172,000 to \$ 9,682,000
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Cost in 2024 Dollars					\$ 8,970,000 to \$ 12,109,000

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US 31 South PEL Study

Level 3 Screening

Tipton Package 4

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-02000	Excavation Common	17765	CYS	\$ 36	\$ 640,000
303-01180	Compacted Aggregate No. 53	4016	TON	\$ 81	\$ 325,000
203-02070	Borrow	128678	CYS	\$ 35	\$ 4,504,000
207-12635	Subgrade Treatment Type IBC	47197	SYS	\$ 35	\$ 1,652,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	5405	TON	\$ 144	\$ 778,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	6491	TON	\$ 166	\$ 1,078,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	31151	TON	\$ 113	\$ 3,520,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	7081	TON	\$ 110	\$ 779,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	15532	SF	\$ 175	\$ 2,718,000
Unquantified Items (as percentage of items above)		52%		\$	\$ 8,317,000
Sub-Total					\$ 24,311,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total					\$ 24,311,000 to \$ 32,820,000
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:					
Qty	Unit	Unit Cost	Construction Cost		
				\$	-
				\$	-
				\$	-
				\$	-
Opinion of Probable Construction Cost					\$ 27,715,000 to \$ 37,414,000
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design:					
Qty	Unit	Unit Cost	Construction Cost		
				\$	-
				\$	-
				\$	-
				\$	-
Opinion of Probable Cost in 2024 Dollars					\$ 36,396,000 to \$ 49,133,000

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US 31 South PEL Study

Level 3 Screening

Tipton Package 5

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-02000	Excavation Common	17765	CYS	\$ 36	\$ 640,000
303-01180	Compacted Aggregate No. 53	4016	TON	\$ 81	\$ 325,000
203-02070	Borrow	128678	CYS	\$ 35	\$ 4,504,000
207-12635	Subgrade Treatment Type IBC	47197	SYS	\$ 35	\$ 1,652,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	5405	TON	\$ 144	\$ 778,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	6491	TON	\$ 166	\$ 1,078,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	31151	TON	\$ 113	\$ 3,520,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	7081	TON	\$ 110	\$ 779,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	15532	SF	\$ 175	\$ 2,718,000
Unquantified Items (as percentage of items above)		52%		\$	\$ 8,317,000

Sub-Total				\$	24,311,000
Contingency			0%		35%
Expected Range of Construction Cost Sub-Total		\$	24,311,000	to \$	32,820,000

Construction Engineering	2%	\$	486,000	to \$	656,000
Mob/Demob	5%	\$	1,216,000	to \$	1,641,000
Clearing Right of Way	2%	\$	486,000	to \$	656,000
MOT	5%	\$	1,216,000	to \$	1,641,000

Additional construction costs not accounted for above:	Qty	Unit	Unit Cost	Construction Cost	
			\$	-	
			\$	-	
			\$	-	
			\$	-	
Opinion of Probable Construction Cost		\$	27,715,000	to \$	37,414,000

UT Cost	7.0%	\$	1,940,000	to \$	2,619,000
Preliminary Engineering	15%	\$	4,157,000	to \$	5,612,000
RW Cost		\$	7,504,000	to \$	10,130,000

Additional items not accounted for at this stage in design:	Qty	Unit	Unit Cost	Construction Cost
			\$	-
			\$	-
			\$	-
			\$	-

Opinion of Probable Cost in 2024 Dollars	\$	41,316,000	to \$	55,775,000
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US 31 South PEL Study

Level 3 Screening

Tipton Package 6

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-02000	Excavation Common	18849	CYS	\$ 36	\$ 679,000
303-01180	Compacted Aggregate No. 53	3742	TON	\$ 81	\$ 303,000
203-02070	Borrow	128644	CYS	\$ 35	\$ 4,503,000
207-12635	Subgrade Treatment Type IBC	54223	SYS	\$ 35	\$ 1,898,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	5185	TON	\$ 144	\$ 747,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	6406	TON	\$ 166	\$ 1,063,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	30744	TON	\$ 113	\$ 3,474,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	6989	TON	\$ 110	\$ 769,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	15532	SF	\$ 175	\$ 2,718,000
Unquantified Items (as percentage of items above)		52%		\$	\$ 8,400,000

Sub-Total	\$	24,554,000
Contingency	0%	35%
Expected Range of Construction Cost Sub-Total	\$	24,554,000 to \$ 33,148,000

Construction Engineering	2%	\$ 491,000	to	\$ 663,000
Mob/Demob	5%	\$ 1,228,000	to	\$ 1,657,000
Clearing Right of Way	2%	\$ 491,000	to	\$ 663,000
MOT	5%	\$ 1,228,000	to	\$ 1,657,000

Additional construction costs not accounted for above:	Qty	Unit	Unit Cost	Construction Cost
				\$ -
				\$ -
				\$ -
				\$ -

Opinion of Probable Construction Cost	\$	27,992,000 to \$ 37,788,000
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UT Cost	7.0%	\$ 1,959,000	to	\$ 2,645,000
Preliminary Engineering	15%	\$ 4,199,000	to	\$ 5,668,000
RW Cost		\$ 7,516,000	to	\$ 10,147,000

Additional items not accounted for at this stage in design:	Qty	Unit	Unit Cost	Construction Cost
				\$ -
				\$ -
				\$ -
				\$ -

Opinion of Probable Cost in 2024 Dollars	\$	41,666,000 to \$ 56,248,000
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US 31 South PEL Study

Level 3 Screening

East Union

Package 1

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	3904	CYS	\$ 36	\$ 141,000
303-01180	Compacted Aggregate No. 53	7535	TON	\$ 81	\$ 610,000
203-02070	Borrow	875	CYS	\$ 35	\$ 31,000
207-12635	Subgrade Treatment Type IBC	23469	SYS	\$ 35	\$ 821,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	4194	TON	\$ 144	\$ 604,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	3230	TON	\$ 166	\$ 536,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	15492	TON	\$ 113	\$ 1,751,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	3525	TON	\$ 110	\$ 388,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	12364	SF	\$ 175	\$ 2,164,000
Unquantified Items (as percentage of items above)		52%			\$ 3,664,000
Sub-Total					\$ 10,710,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total					\$ 10,710,000 to \$ 14,459,000
Construction Engineering					
2%					
\$ 214,000 to \$ 289,000					
Mob/Demob					
5%					
\$ 536,000 to \$ 723,000					
Clearing Right of Way					
2%					
\$ 214,000 to \$ 289,000					
MOT					
5%					
\$ 536,000 to \$ 723,000					
Additional construction costs not accounted for above:					
Qty					
Unit					
Unit Cost					
Construction Cost					
Opinion of Probable Construction Cost					
\$ 12,210,000 to \$ 16,483,000					
UT Cost					
7.0%					
\$ 855,000 to \$ 1,154,000					
Preliminary Engineering					
15%					
\$ 367,000 to \$ 2,472,000					
RW Cost					
\$ 367,000 to \$ 495,000					
Additional items not accounted for at this stage in design					
Qty					
Unit					
Unit Cost					
Construction Cost					
Opinion of Probable Cost in 2024 Dollars					
\$ 13,799,000 to \$ 20,604,000					

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US 31 South PEL Study

Level 3 Screening

Package 2

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	2783	CYS	\$ 36	\$ 100,000
303-01180	Compacted Aggregate No. 53	8285	TON	\$ 81	\$ 671,000
203-02070	Borrow	37971	CYS	\$ 35	\$ 1,329,000
207-12635	Subgrade Treatment Type IBC	24488	SYS	\$ 35	\$ 857,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	3871	TON	\$ 144	\$ 557,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	3371	TON	\$ 166	\$ 560,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	16166	TON	\$ 113	\$ 1,827,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	3677	TON	\$ 110	\$ 404,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	19508	SF	\$ 175	\$ 3,414,000
Unquantified Items (as percentage of items above)		52%			\$ 5,054,000
Sub-Total					\$ 14,773,000
Contingency					0% 135%
Expected Range of Construction Cost Sub-Total					\$ 14,773,000 to \$ 19,944,000
Construction Engineering					
Mob/Demob					
Clearing Right of Way					
MOT					
Additional construction costs not accounted for above:		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Construction Cost					\$ 16,841,000 to \$ 22,736,000
UT Cost					
Preliminary Engineering					
RW Cost					
Additional items not accounted for at this stage in design		Qty	Unit	Unit Cost	Construction Cost
Opinion of Probable Cost in 2023 Dollars					\$ 21,527,000 to \$ 29,062,000

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US 31 South PEL Study

Level 3 Screening

East Union

Package 3

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	1768	CYS	\$ 36	\$ 64,000
303-01180	Compacted Aggregate No. 53	8023	TON	\$ 81	\$ 650,000
203-02070	Borrow	37925	CYS	\$ 35	\$ 1,327,000
207-12635	Subgrade Treatment Type IBC	18957	SYS	\$ 35	\$ 664,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	3762	TON	\$ 144	\$ 542,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	2610	TON	\$ 166	\$ 433,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	12515	TON	\$ 113	\$ 1,414,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	2846	TON	\$ 110	\$ 313,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	7144	SF	\$ 175	\$ 1,250,000
Unquantified Items (as percentage of items above)		52%			\$ 3,462,000
Sub-Total					\$ 10,119,000
Contingency					0% 35%
Expected Range of Construction Cost Sub-Total					\$ 10,119,000 to \$ 13,661,000
Construction Engineering					
2% \$ 202,000 to \$ 273,000					
Mob/Demob					
5% \$ 506,000 to \$ 683,000					
Clearing Right of Way					
2% \$ 202,000 to \$ 273,000					
MOT					
5% \$ 506,000 to \$ 683,000					
Additional construction costs not accounted for above:					
Qty					
Unit					
Unit Cost					
Construction Cost					
Opinion of Probable Construction Cost					
\$ 11,535,000 to \$ 15,573,000					
UT Cost					
7.0% \$ 807,000 to \$ 1,090,000					
Preliminary Engineering					
15% \$ 1,730,000 to \$ 2,336,000					
RW Cost					
\$ 945,000 to \$ 1,276,000					
Additional items not accounted for at this stage in design					
Qty					
Unit					
Unit Cost					
Construction Cost					
Opinion of Probable Cost in 2024 Dollars					
\$ 15,017,000 to \$ 20,275,000					

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US 31 South PEL Study

Level 3 Screening

East Union

Package 4

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	2124	CYS	\$ 36	\$ 76,000
303-01180	Compacted Aggregate No. 53	4603	TON	\$ 81	\$ 373,000
203-02070	Borrow	703	CYS	\$ 35	\$ 25,000
207-12635	Subgrade Treatment Type IBC	13483	SYS	\$ 35	\$ 472,000
401-000009	QC/QA-HMA, 4 58E, Surface, 9.5 mm	2256	TON	\$ 144	\$ 325,000
401-000045	QC/QA-HMA, 4 58E, Intermediate, 19.0 mm	1858	TON	\$ 166	\$ 308,000
401-000048	QC/QA-HMA, 4 58S, Base, 25.0 mm	8902	TON	\$ 113	\$ 1,006,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	2025	TON	\$ 110	\$ 223,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	0	SF	\$ 175	\$ -
Unquantified Items (as percentage of items above)		52%		\$	\$ 1,460,000

Sub-Total \$ 4,268,000

Compacted Aggregate No. 53 0% 35%

Expected Range of Construction Cost Sub-Total \$ 4,268,000 to \$ 5,762,000

Construction Engineering	2%	\$ 85,000	to	\$ 115,000
Mob/Demob	5%	\$ 213,000	to	\$ 288,000
Clearing Right of Way	2%	\$ 85,000	to	\$ 115,000
MOT	5%	\$ 213,000	to	\$ 288,000
Additional construction costs not accounted for above:	Qty	Unit	Unit Cost	Construction Cost
				\$ -
				\$ -
				\$ -
				\$ -

Opinion of Probable Cost 3 \$ 4,864,000 to \$ 6,568,000

UT Cost 7.0% \$ 340,000 to \$ 460,000

Preliminary Engineering 15% \$ 730,000 to \$ 985,000

RW Cost \$ 5,295,000 to \$ 7,148,000

Additional items not accounted for at this stage in design	Qty	Unit	Unit Cost	Construction Cost
				\$ -
				\$ -
				\$ -
				\$ -

Opinion of Probable Cost in 2024 Dollars \$ 11,229,000 to \$ 15,161,000

* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.

US 31 South PEL Study

Level 3 Screening

East Union

Package 5

Item No	Description	Qty	Unit	Unit Cost	Construction Cost
203-0200	Excavation Common	5360	CYS	\$ 36	\$ 193,000
303-01180	Compacted Aggregate No. 53	4917	TON	\$ 81	\$ 398,000
203-02070	Borrow	37774	CYS	\$ 35	\$ 1,322,000
207-12635	Subgrade Treatment Type 2	13690	SYS	\$ 35	\$ 479,000
401-000009	QC/QA HMA 3 76 Surface 9.5 mm	1134	TON	\$ 144	\$ 163,000
401-000045	QC/QA HMA 3 76 Intermediate 19.0 mm	1887	TON	\$ 166	\$ 313,000
401-000048	QC/QA HMA 3 76 Base 25.0 mm	9039	TON	\$ 113	\$ 1,021,000
401-000067	QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm	2057	TON	\$ 110	\$ 226,000
618-06192	Wall	0	LFT	\$ 793	\$ -
n/a	BRIDGES	0	SF	\$ 175	\$ -
Unquantified Items (as percentage of items above)		52%		\$	\$ 2,140,000

Sub-Total		\$	6,255,000
Contingency		0%	35%
Expected Range of Construction Cost Sub-Total		\$	6,255,000 to \$ 8,444,000

Construction Engineering	2%	\$	125,000	to	\$	169,000
Mob/Demob	5%	\$	313,000	to	\$	422,000
Clearing Right of Way	2%	\$	125,000	to	\$	169,000
MOT	5%	\$	313,000	to	\$	422,000

Additional construction costs not accounted for above:	Qty	Unit	Unit Cost	Construction Cost
				\$ -
				\$ -
				\$ -
				\$ -
Opinion of Probable Construction Cost		\$	7,131,000	to \$ 9,626,000

UT Cost	7.0%	\$	499,000	to	\$	674,000
Preliminary Engineering	15%	\$	1,070,000	to	\$	1,444,000
RW Cost		\$	6,068,000	to	\$	8,192,000

Additional items not accounted for at this stage in design	Qty	Unit	Unit Cost	Construction Cost
				\$ -
				\$ -
				\$ -
				\$ -

Opinion of Probable Cost in 2024 Dollars	\$	14,768,000	to	\$	19,936,000
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