



COST ESTIMATE SUMMARY DETAILS

DATE: 8/27/2020
 PREPARED BY: J. Candler
 CHECKED BY: A. Patel

PROJECT NUMBER:
 PROJECT NAME:
 PROJECT DESIGN PHASE:
 PROJECT LOCATION:

S32D
Donaldson Run -
100%
Donladson Run

Estimated Construction Size:
 Year of Estimation Data:
 Year of Construction (Predicted):
 Escalation

1-4M Local
2020
2021
4%

Estimated Engineering Cost			
Cost Items	Funding Needs	Expenditure to Date	Budget Worksheet Line
PRIMARY CONTRACT			
PRIMARY CONTRACT:	\$2,029,864.26		
ESCALATED YEARS 1	\$81,194.57		
SUBTOTAL:	\$2,111,058.83		
CONTINGENCY 15%	\$316,658.82		
PRIMARY CONTRACT TOTAL:	\$2,427,717.65		
UTILITY WORK (BY OTHERS)			
UTILITIES:	\$0.00		
ESCALATED YEARS 1	\$0.00		
SUBTOTAL:	\$0.00		
CONTINGENCY 15%	\$0.00		
UTILITIES TOTAL:	\$0.00		
TOTAL CONSTRUCTION CONTRACT			
TOTAL:	\$2,029,864.26		
ESCALATED YEARS 1	\$81,194.57		
SUBTOTAL:	\$2,111,058.83		40.20.01
CONTINGENCY 15%	\$316,658.82		40.99.99
CONSTRUCTION CONTRACT TOTAL:	\$2,427,717.65		
SOFT COSTS			
Architecture & Engineering 15%	\$364,157.65	\$0.00	* See Following Page
Construction Management and Inspection 10%	\$242,771.77		40.10.04 & 40.15.04
CA Services 2.5%	\$60,692.94		40.10.05 & 40.15.05
Total Estimated Soft Costs:	\$667,622.35	\$0.00	
GRAND TOTAL			
	\$3,095,340.00	\$0.00	* See Following Page

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* Architecture & Engineering estimate includes the following:

Line Item	Line Item Description
10.10.02	Planning /Staff Salaries/Survey
10.10.03	Planning /Staff Salaries/15% (Conceptual) Design
10.15.02	Planning /Consultants/Survey
10.15.03	Planning /Consultants/15% (Conceptual) Design
20.10.02	Architecture & Engineering /Staff Salaries/30% Design
20.10.03	Architecture & Engineering /Staff Salaries/60% Design
20.10.04	Architecture & Engineering /Staff Salaries/90% Design
20.10.05	Architecture & Engineering /Staff Salaries/100% Design
20.10.06	Architecture & Engineering /Staff Salaries/Construction Manager Review
20.15.02	Architecture & Engineering /Consultants/30% Design
20.15.03	Architecture & Engineering /Consultants/60% Design
20.15.04	Architecture & Engineering /Consultants/90% Design
20.15.05	Architecture & Engineering /Consultants/100% Design
20.20.01	Architecture & Engineering /Utilities/Utilities
20.99.99	Architecture & Engineering /Contingency/Contingency - Architecture & Engineering
30.10.01	Land Acquisition & Right of Way/Staff Salaries/Easement/ ROW Plat Preparation
30.15.01	Land Acquisition & Right of Way/Consultants/Easement/ ROW Plat Preparation
40.10.02	Construction /Staff Salaries/As-Builts
40.10.03	Construction /Staff Salaries/Construction Stakeout
40.15.02	Construction /Contracted Services /As-Builts
40.15.03	Construction /Contracted Services /Construction Stakeout
40.25.01	Construction /Permit & Fees /Permit & Fees

CONSTRUCTION COST ESTIMATE DETAIL

PROJECT NUMBER: S32D \$44,032.00
PROJECT NAME: Donaldson Run - Trib B
DATE: 8/27/2020
PREPARED BY: J. Candler
CHECKED BY: A. Patel

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
C1 GENERAL EARTH WORK					
MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
02200-C1-00010	General Excavation, only when not included in other pay items	5780	CY	\$64.61	\$373,445.80
	Clearing & Grubbing	1.64	AC	\$13,398.00	\$21,972.72
02200-C1-00130	Aggregate, VDOT #21-A (Compacted in Place per VDOT standards & Specs)	22	CY	\$74.08	\$1,629.76
	Stone Dust (2" Thickness for path)	16	TON	\$29.00	\$464.00
02210-C1-00170	Riprap, Dry Class I	6	SY	\$75.00	\$450.00
	Imported Structural Streambed Material	1757	TON	\$110.00	\$193,270.00
	Step Pool Structure Rock	1858	TON	\$185.00	\$343,730.00
	Step Run Structure Rock	1359	TON	\$186.00	\$252,774.00
	Plunge Pool Structure Rock	125	TON	\$186.00	\$23,250.00
	Apron Rock at Storm Pipe Outfalls	56	TON	\$186.00	\$10,416.00
	Boulder Crossing	50	TON	\$186.00	\$9,300.00
	Headwall/Endwall Stacked Stone for Pipes	8	CY	\$186.00	\$1,488.00
	Stack Stone Stream BMP Wall	638	TON	\$186.00	\$118,668.00
				SUBTOTAL	\$1,350,858.28

C2 CONCRETE WORK					
MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
				SUBTOTAL	\$0.00

C3 ASPHALT WORK					
MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
02600-C3-00060	Asphalt Concrete, Surface Course (VDOT SM-9.5A) - temporary sidewalk	1	TON	\$221.84	\$221.84
				SUBTOTAL	\$221.84

C4 STORM SEWER UTILITY WORK					
MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
	8" Pipe, HDPE, In Place Up to 6' Deep	87	LF	\$49.00	\$4,263.00
02500-C4-01190	12" Pipe, HDPE, In Place Up to 6' Deep	49	LF	\$49.00	\$2,401.00
	15" Pipe, HDPE, In Place Up to 6' Deep	126	LF	\$115.00	\$14,490.00
02500-C4-01250	18" Pipe, HDPE, In Place Up to 6' Deep	10	LF	\$115.00	\$1,150.00
02550-C4-01912	48" Pipe, HDPE, In Place Up to 6' Deep	60	LF	\$189.00	\$11,340.00
02505-C4-00010	Storm Manhole MH-1 (Arlington County Detail D-3.0), In Place, DEPTH 8'	4	EA	\$9,298.88	\$37,195.52

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PROJECT NUMBER: S32D \$44,032.00
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MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
02500-C4-02510	Standard Endwall for pipe culverts 48" circular (VDOT standard EW-2)	1	EA	\$8,265.00	\$8,265.00
				SUBTOTAL	\$79,104.52

C5 GUARDRAIL

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	\$0.00

C6 WATERMAIN WORK

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	\$0.00

C7 SANITARY SEWER WORK

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	\$0.00

C8 TRAFFIC SIGNAL WORK

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	\$0.00

C9 STREET LIGHTING WORK

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	\$0.00

C10 PAVEMENT MARKING AND SIGNAGE WORK

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	\$0.00

LANDSCAPE AND HARDSCAPE

C11 RESTORATION WORK

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
	Salvaging and Placing Topsoil	7957	SY	\$7.00	\$55,699.00
02800-C11-00600	Trees, Deciduous - 0.75 to 1.0" caliper	360	EA	\$200.00	\$72,000.00
02800-C11-00602	Trees, Deciduous - 1.5 to 2.0" caliper	3	EA	\$300.00	\$900.00
02800-C11-00606	Trees, Deciduous -4'-5' in height	87	EA	\$200.00	\$17,400.00
	Seed Mix (Steep Slope - see Construction Plan)	1896	SY	\$5.00	\$9,480.00
	Seed Mix (Streamside/Floodplain - see Construction Plan)	1456	SY	\$5.00	\$7,280.00
	Seed Mix (Upland - see Construction Plan)	2106	SY	\$5.00	\$10,530.00

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MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
	Seed Mix (Turfgrass - see Construction Plan)	615	SY	\$5.00	\$3,075.00
	Seed Mix (Temporary Stabilization - see Construction Plan)	5575	SY	\$5.00	\$27,875.00
	Live Stakes (See Plan for species)	200	EA	\$15.00	\$3,000.00
	Invasive Species Control	1.64	AC	Price Not Found	
02800-C11-01000	Herbaceous plants (3" Deep plug Minimum)	2096	EA	\$3.50	\$7,336.00
02800-C11-01100	Shurb (#3 Container)- Container or B&B	188	EA	\$35.00	\$6,580.00
311300-C11-00084	Root Protection Matting	5000	SF	\$13.00	\$65,000.00
				SUBTOTAL	\$286,155.00

C12 BUS STOP SHELTER AND FURNISHINGS

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	\$0.00

C13 EROSION AND SEDIMENT CONTROL WORK

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
01500-C13-00005	Gravel construction entrance, including wash rack (per Virginia Erosion & Sediment Control Handbook Standard & Specification 3.02)	3	EA	\$4,500.00	\$13,500.00
01500-C13-00040	Storm Drain Inlet Protection, Gravel & Wire Mesh Drop Inlet Application (per Virginia Erosion & Sediment Control Handbook Standard & Specification 3.07)	2	EA	\$321.58	\$643.16
01500-C13-00140	4' Chain Link Tree Protection Fence (per Arlington County DPR Standard 02231.2)	341	LF	\$13.50	\$4,603.50
01500-C13-00150	Root Pruning (per Arlington County DPR Standard 02231.5)	1000	LF	\$7.00	\$7,000.00
01500-C13-00530	Temporary Soil stabilization mat - slope/ditch installation (VDOT standard EC-2)	4227	SY	\$7.50	\$31,702.50
	Safety Fencing	859	LF	\$10.00	\$8,590.00
	Temporary Vehicle Crossing	1	EA	\$5,000.00	\$5,000.00
	Pump Around Diversion	1	LS	\$25,000.00	\$25,000.00
				SUBTOTAL	\$96,039.16

C15 UNLISTED WORK

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	\$0.00

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MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
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C16 MOT AND RE-MOBILIZATION WORK

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
			0	SUBTOTAL	\$0.00

C17 STORMWATER WORK

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
	Stone Dust (2" Thickness for path)		SF	Price Not Found	
				SUBTOTAL	\$0.00

C18 NON COUNTY UTILITIES

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	\$0.00

CONTRACT TOTAL (EXCLUDING PERCENTAGE ITEMS)	\$1,812,378.80
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PCT PERCENTAGE LINE ITEMS

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
01000-C16-00010	Maintenance of Traffic (MOT)	NA	%	5%	\$90,618.94
01000-C16-00020	Re-Mobilization (For On-Call Contracts Only)	NA	%		\$0.00
01000-C16-00030	Mobilization and De-Mobilization	NA	%	5%	\$90,618.94
01500-SA-00200	SWPPP Administration	NA	%	2%	\$36,247.58
01000-VF-00200	VDOT Inspection Fee (Only for LAP Projects. Do not Include in the Bid Tab)	NA	%		\$0.00
	PERCENTAGE LINE ITEMS SUBTOTAL				\$217,485.46

PRIMARY CONTRACT WORK

PRIMARY CONTRACT :	\$2,029,864.26
NUMBER OF TOTAL CONSTRUCTION COST ESCALATED YEARS 1 4%	\$81,194.57
SUBTOTAL:	\$2,111,058.83
CONTINGENCY 15%	\$316,658.82
TOTAL:	\$2,427,717.65

UTILITY WORK (BY OTHERS)

DOMINION	\$0.00
VERIZON	\$0.00
WASHINGTON GAS	\$0.00
OTHER UTILITY	\$0.00

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MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
				UTILITIES:	\$0.00
	NUMBER OF TOTAL CONSTRUCTION COST ESCALATED YEARS	1		4%	\$0.00
				SUBTOTAL:	\$0.00
	CONTINGENCY			15%	\$0.00
				TOTAL:	\$0.00

TOTAL CONSTRUCTION CONTRACT					
				PRIMARY CONTRACT:	\$2,029,864.26
				UTILITY:	\$0.00
				TOTAL:	\$2,029,864.26
	NUMBER OF TOTAL CONSTRUCTION COST ESCALATED YEARS	1		4%	\$81,194.57
				SUBTOTAL	\$2,111,058.83
	CONTINGENCY			15%	\$316,658.82
				TOTAL CONSTRUCTION CONTRACT COST:	\$2,427,717.65