



**CVL Consultants of Colorado, Inc.**  
 10333 E. Dry Creek Rd  
 Suite 240  
 Englewood, Colorado 80112  
 720.482.9526 Fax 720.482.9546

**PROJECT: TRAILS AT CROWFOOT**  
**CLIENT: E5X**  
**FILING 5 COST ESTIMATE**

**JOB NUMBER: 8.13.0283701**  
**DATE: 4/14/2017**  
**PREPARED BY: BPW**

**SUMMARY - ONSITE**

Item	Description	Total Cost
	DEMOLITION	\$0
	EARTHWORK	\$22,568
	WET UTILITIES	\$558,118
	WATER	\$272,178
	SANITARY SEWER	\$221,350
	STORM SEWER	\$64,590
	STORMWATER (PONDS, CHANNELS)	\$0
	ROADWAYS	\$692,549
	DRY UTILITIES	\$0
	LANDSCAPING/MONUMENTATION	\$0
	SITE AMENITIES (PARKS/REC CENTERS/ETC)	\$0
	CONTINGENCY (10%)	\$127,324
	<b>TOTAL ONSITE</b>	<b>\$1,400,559</b>

**SUMMARY - OFFSITE**

Item	Description	Total Cost
	PERMANENT OFF-SITE POWER-FEEDER	\$0
	PERMANENT OFF-SITE GAS-FEEDER	\$0
	CONTINGENCY (10%)	\$0
	<b>TOTAL OFFSITE</b>	<b>\$0</b>

**SUBMITTAL/PERMIT FEES**

Item	Description	Total Cost
	PLANNING APP. FEES - PRELIMINARY PLANS(PRELIM DRAINAGE REPORT)	\$0
	ENGINEERING FEES - FINAL PLANS	\$0
	WATER/SEWER/STORM (DEVELOPMENT FEES)	\$0
	GENERAL MAINTENANCE - EROSION CONTROL (ON-GOING)	\$0
	GENERAL MAINTENANCE - OTHER	\$0
	EROSION CONTROL	\$0
	CONTINGENCY (10%)	\$0
	<b>TOTAL SUBMITTAL/PERMIT FEES</b>	<b>\$0</b>

**PROFESSIONAL FEES**

Item	Description	Total Cost
	ARCHITECT/ENGINEERING DESIGN FEES (5%)	\$0
	GEOTECHNICAL TESTING/OBSERVATION FEES (2%)	\$0
	CONSTRUCTION MANAGEMENT FEES (3%)	\$0
	CONTINGENCY (10%)	\$0
	<b>TOTAL PROFESSIONAL FEES</b>	<b>\$0</b>

**TOTAL DEVELOPMENT COSTS**

**\$1,400,559**

**NOTES:**

1. All costs are furnished and in-place costs.
2. Reference Town of Parker and Parker Water and Sanitary standards unless noted otherwise.
3. Final subgrade treatments/roadway pavement design to be provided by geotechnical engineer.
4. No power or gas feeder costs have been included in this estimate.
5. No design or submittal fees have been included in this estimate.
6. No erosion control maintenance has been included in this estimate.
7. Costs do not include JDA streets or utilities.



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**STREET SUMMARY**

**DEMOLITION**

Item	Description	Quantity	Unit
	REMOVE EXISTING ASPHALT(8" THICK)	0	S.Y.
	REMOVE EXISTING CONCRETE(6" THICK)	0	S.Y.
	REMOVE EXISTING PIPE	0	L.F.
	REMOVE EXISTING LIGHT	0	EA.
	REMOVE EXISTING MANHOLE/INLET	0	EA.

**STREET SUMMARY**

**EARTHWORK**

Item	Description	Quantity	Unit
	SUBGRADE PREPARATION(clearing & grubbing, 3" topsoil removal/stockpile)	11,284	S.Y.
	SUBGRADE PREPARATION TAPER(clearing & grubbing, 3" topsoil removal/stockpile)	0	S.Y.
	STREET GRADING (3'xWxL)	0	C.Y.
	STREET OVEREXCAVATION (3' deep & moisture treatment per geotech report)	0	C.Y.

**STREET SUMMARY**

**WATER**

Item	Description	Quantity	Unit
	24" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.
	16" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.
	12" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.
	8" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	2,671	L.F.
	6" WATERPIPE (DIP-FIRE HYDRANT LINE)	124	L.F.
	24" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.
	16" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.
	12" GATE VALVE W/ BOX (1 at 400 ft spacing)	0	EA.
	8" GATE VALVE W/ BOX (1 at 400 ft spacing)	9	EA.
	6" GATE VALVE W/ BOX	5	EA.
	FIRE HYDRANT ASSEMBLY (1 at 400 ft spacing)	5	EA.
	AIR/VAC VALVE W/ VAULT	0	EA.
	8" BLOWOFF (2" END OF PIPE)	0	EA.
	12" BLOWOFF (2" END OF PIPE)	0	EA.
	16" BLOWOFF (2" END OF PIPE)	0	EA.
	24" BLOWOFF (2" END OF PIPE)	0	EA.
	8" BEND	1	EA.
	12" BEND	0	EA.
	8" CROSS	0	EA.
	12" CROSS	0	EA.
	8" TEE	7	EA.
	12" TEE	0	EA.
	16" STEEL CASING PIPE	0	L.F.
	20" STEEL CASING PIPE	0	L.F.
	22" STEEL CASING PIPE	0	L.F.
	WATER MAIN CONNECTION	0	EA.
	WATER SERVICE LATERAL W/ WATER METER AND PIT	69	EA.



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**STREET SUMMARY**

**SANITARY SEWER**

Item	Description	Quantity	Unit
	24" SEWER (SDR-35 PVC)	0	31
	18" SEWER (SDR-35 PVC)	0	31
	15" SEWER (SDR-35 PVC)	0	31
	12" SEWER (SDR-35 PVC)	0	31
	8" SEWER (SDR-35 PVC)	2,510	31
	4' DIA. MANHOLE (1 at 400 ft spacing)	10	31
	5' DIA. MANHOLE (1 at 400 ft spacing)	0	31
	INTERMEDIATE PLATFORM	0	31
	SEWER MAIN CONNECTION	0	31
	SEWER SERVICE LATERAL W/ WYE TAP	69	31

**STREET SUMMARY**

**STORM SEWER**

Item	Description	Quantity	Unit
	15" STORM SEWER (Class III RCP)	0	L.F.
	18" STORM SEWER (Class III RCP)	1,142	L.F.
	24" STORM SEWER (Class III RCP)	0	L.F.
	30" STORM SEWER (Class III RCP)	0	L.F.
	36" STORM SEWER (Class III RCP)	0	L.F.
	42" STORM SEWER (Class III RCP)	0	L.F.
	48" STORM SEWER (Class III RCP)	0	L.F.
	54" STORM SEWER (Class III RCP)	0	L.F.
	60" STORM SEWER (Class III RCP)	0	L.F.
	6'x4' BOX CULVERT (Class III RCBC)	0	L.F.
	10'x6' BOX CULVERT (Class III RCBC)	0	L.F.
	HEADWALL (PER COA/CDOT STANDARD) (includes handrails)	0	EA.
	4' DIA. MANHOLE	3	EA.
	5' DIA. MANHOLE	0	EA.
	TYPE R INLET (5')	0	EA.
	TYPE R INLET (10')	1	EA.
	TYPE R INLET (15')	0	EA.
	18" FES	0	EA.
	24" FES	0	EA.
	30" FES	0	EA.
	36" FES	0	EA.
	48" FES	0	EA.



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**STREET SUMMARY**

**ROADWAYS**

Item	Description	Quantity	Unit
	FULL DEPTH ASPHALT PAVEMENT (9" THICK)	9,403	S.Y.
	TEMPORARY ASPHALT TRANSITION (9" THICK)	0	S.Y.
	CONCRETE PAVEMENT (10" THICK)	0	S.Y.
	6" CONCRETE CURB & GUTTER WITH 2' PAN	5,642	L.F.
	6" CONCRETE CURB & GUTTER WITH 1' PAN	0	L.F.
	4" TRENCH DRAIN (PVC) W/ CLEANOUTS, FILTER FABRIC, AND FILTER MATERIAL	0	L.F.
	6"X10' CONCRETE SIDEWALK W/ FIBER MESH	5,642	L.F.
	CONCRETE CROSSSPAN (6" THICK)	1	EA.
	HANDICAP RAMPS	9	EA.
	STRIPING 1/2 width (2 solid edge lines and 2 dashed lane lines - typ)	0	L.F.
	STRIPING taper (centerline - typ)	0	L.F.
	SIGNAGE (1 Sign every 300 feet)	14	EA.

**STREET SUMMARY**

**DRY UTILITIES**

Item	Description	Quantity	Unit
	ON-SITE STREET GAS LINES	5,196	L.F.
	ON-SITE STREET ELECTRIC LINES	5,196	L.F.
	LOT GAS SERVICE	69	EA.
	LOT ELECTRIC SERVICE	69	EA.
	STREET LIGHTS (ONE SIDE AT 180' SPACING)	10	EA.

**STREET SUMMARY**

**LANDSCAPING/MONUMENTION**

Item	Description	Quantity	Unit
	STREETSCAPE LANDSCAPING (MEDIANS/SIDEWALK STRIP)	0	L.F.
	FENCING	0	L.F.
	IRRIGATION AND SLEEVING	0	L.F.
	MONUMENTATION	0	LS



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Length (ft) Taper (ft) Total Lots  
 410 0 18

**BIRDS FOOT AVENUE DEMOLITION**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	REMOVE EXISTING ASPHALT(8" THICK)	0	S.Y.	\$8.00	\$0.00
	REMOVE EXISTING CONCRETE(6" THICK)	0	S.Y.	\$6.00	\$0.00
	REMOVE EXISTING PIPE	0	L.F.	\$5.00	\$0.00
	REMOVE EXISTING LIGHT	0	EA.	\$200.00	\$0.00
	REMOVE EXISTING MANHOLE/INLET	0	EA.	\$500.00	\$0.00
Total Cost					<b>\$0.00</b>

**BIRDS FOOT AVENUE EARTHWORK**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	SUBGRADE PREPARATION(clearing & grubbing, 3" topsoil removal/stockpile)	1,640	S.Y.	\$2.00	\$3,280.00
	SUBGRADE PREPARATION TAPER(clearing & grubbing, 3" topsoil removal/stockpile)	0	S.Y.	\$2.00	\$0.00
	STREET GRADING (3xWxL)	0	C.Y.	\$3.00	\$0.00
	STREET OVEREXCAVATION (5' deep & moisture treatment per geotech report)	0	C.Y.	\$6.00	\$0.00
Total Cost					<b>\$3,280.00</b>

**BIRDS FOOT AVENUE WATER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	24" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$110.00	\$0.00
	16" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$80.00	\$0.00
	12" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$43.00	\$0.00
	8" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	388	L.F.	\$38.00	\$14,744.00
	6" WATERPIPE (DIP-FIRE HYDRANT LINE)	12	L.F.	\$20.00	\$240.00
	24" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.	\$18,500.00	\$0.00
	16" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.	\$16,000.00	\$0.00
	12" GATE VALVE W/ BOX (1 at 400 ft spacing)	0	EA.	\$3,000.00	\$0.00
	8" GATE VALVE W/ BOX (1 at 400 ft spacing)	1	EA.	\$2,000.00	\$2,000.00
	6" GATE VALVE W/ BOX	1	EA.	\$1,000.00	\$1,000.00
	FIRE HYDRANT ASSEMBLY (1 at 400 ft spacing)	1	EA.	\$4,400.00	\$4,400.00
	AIR/VAC VALVE W/ VAULT	0	EA.	\$6,500.00	\$0.00
	8" BLOWOFF (2" END OF PIPE)	0	EA.	\$1,500.00	\$0.00
	12" BLOWOFF (2" END OF PIPE)	0	EA.	\$2,500.00	\$0.00
	16" BLOWOFF (2" END OF PIPE)	0	EA.	\$3,700.00	\$0.00
	24" BLOWOFF (2" END OF PIPE)	0	EA.	\$4,700.00	\$0.00
	8" BEND	0	EA.	\$650.00	\$0.00
	12" BEND	0	EA.	\$1,200.00	\$0.00
	8" CROSS	0	EA.	\$1,300.00	\$0.00
	12" CROSS	0	EA.	\$1,300.00	\$0.00
	8" TEE	1	EA.	\$750.00	\$750.00
	12" TEE	0	EA.	\$1,050.00	\$0.00
	16" STEEL CASING PIPE	0	L.F.	\$120.00	\$0.00
	20" STEEL CASING PIPE	0	L.F.	\$150.00	\$0.00
	22" STEEL CASING PIPE	0	L.F.	\$165.00	\$0.00
	WATER MAIN CONNECTION	0	EA.	\$2,500.00	\$0.00
	WATER SERVICE LATERAL W/ WATER METER AND PIT	18	EA.	\$1,700.00	\$30,600.00
Total Cost					<b>\$53,734.00</b>

**BIRDS FOOT AVENUE SANITARY SEWER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	24" SEWER (SDR-35 PVC)	0	L.F.	\$72.00	\$0.00
	18" SEWER (SDR-35 PVC)	0	L.F.	\$67.00	\$0.00
	15" SEWER (SDR-35 PVC)	0	pl	\$65.00	\$0.00
	12" SEWER (SDR-35 PVC)	0	pl	\$60.00	\$0.00
	8" SEWER (SDR-35 PVC)	388	L.F.	\$35.00	\$13,580.00
	4' DIA. MANHOLE (1 at 400 ft spacing)	1	EA.	\$3,000.00	\$3,000.00
	5' DIA. MANHOLE (1 at 400 ft spacing)	0	EA.	\$4,200.00	\$0.00
	INTERMEDIATE PLATFORM	0	EA.	\$500.00	\$0.00
	SEWER MAIN CONNECTION	0	EA.	\$2,000.00	\$0.00
	SEWER SERVICE LATERAL W/ WYE TAP	18	EA.	\$1,500.00	\$27,000.00
Total Cost					<b>\$43,580.00</b>





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JOB NUMBER: 8.13.0283701  
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 PREPARED BY: BPW

Length (ft) Taper (ft) Total Lots  
 780 0 13

**ROSE MALLOW TRAIL DEMOLITION**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	REMOVE EXISTING ASPHALT(8" THICK)	0	S.Y.	\$8.00	\$0.00
	REMOVE EXISTING CONCRETE(6" THICK)	0	S.Y.	\$6.00	\$0.00
	REMOVE EXISTING PIPE	0	L.F.	\$5.00	\$0.00
	REMOVE EXISTING LIGHT	0	EA.	\$200.00	\$0.00
	REMOVE EXISTING MANHOLE/INLET	0	EA.	\$500.00	\$0.00
Total Cost					<b>\$0.00</b>

**ROSE MALLOW TRAIL EARTHWORK**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	SUBGRADE PREPARATION(clearing & grubbing, 3" topsoil removal/stockpile)	3,120	S.Y.	\$2.00	\$6,240.00
	SUBGRADE PREPARATION TAPER(clearing & grubbing, 3" topsoil removal/stockpile)	0	S.Y.	\$2.00	\$0.00
	STREET GRADING (3xWxL)	0	C.Y.	\$3.00	\$0.00
	STREET OVEREXCAVATION (5' deep & moisture treatment per geotech report)	0	C.Y.	\$6.00	\$0.00
Total Cost					<b>\$6,240.00</b>

**ROSE MALLOW TRAIL WATER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	24" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$110.00	\$0.00
	16" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$80.00	\$0.00
	12" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$43.00	\$0.00
	8" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	822	L.F.	\$38.00	\$31,236.00
	6" WATERPIPE (DIP-FIRE HYDRANT LINE)	36	L.F.	\$20.00	\$720.00
	24" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.	\$18,500.00	\$0.00
	16" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.	\$16,000.00	\$0.00
	12" GATE VALVE W/ BOX (1 at 400 ft spacing)	0	EA.	\$3,000.00	\$0.00
	8" GATE VALVE W/ BOX (1 at 400 ft spacing)	3	EA.	\$2,000.00	\$6,000.00
	6" GATE VALVE W/ BOX	1	EA.	\$1,000.00	\$1,000.00
	FIRE HYDRANT ASSEMBLY (1 at 400 ft spacing)	1	EA.	\$4,400.00	\$4,400.00
	AIR/VAC VALVE W/ VAULT	0	EA.	\$6,500.00	\$0.00
	8" BLOWOFF (2" END OF PIPE)	0	EA.	\$1,500.00	\$0.00
	12" BLOWOFF (2" END OF PIPE)	0	EA.	\$2,500.00	\$0.00
	16" BLOWOFF (2" END OF PIPE)	0	EA.	\$3,700.00	\$0.00
	24" BLOWOFF (2" END OF PIPE)	0	EA.	\$4,700.00	\$0.00
	8" BEND	1	EA.	\$650.00	\$650.00
	12" BEND	0	EA.	\$1,200.00	\$0.00
	8" CROSS	0	EA.	\$1,300.00	\$0.00
	12" CROSS	0	EA.	\$1,300.00	\$0.00
	8" TEE	2	EA.	\$750.00	\$1,500.00
	12" TEE	0	EA.	\$1,050.00	\$0.00
	16" STEEL CASING PIPE	0	L.F.	\$120.00	\$0.00
	20" STEEL CASING PIPE	0	L.F.	\$150.00	\$0.00
	22" STEEL CASING PIPE	0	L.F.	\$165.00	\$0.00
	WATER MAIN CONNECTION	0	EA.	\$2,500.00	\$0.00
	WATER SERVICE LATERAL W/ WATER METER AND PIT	13	EA.	\$1,700.00	\$22,100.00
Total Cost					<b>\$67,606.00</b>

**ROSE MALLOW TRAIL SANITARY SEWER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	24" SEWER (SDR-35 PVC)	0	L.F.	\$72.00	\$0.00
	18" SEWER (SDR-35 PVC)	0	L.F.	\$67.00	\$0.00
	15" SEWER (SDR-35 PVC)	0	pl	\$65.00	\$0.00
	12" SEWER (SDR-35 PVC)	0	pl	\$60.00	\$0.00
	8" SEWER (SDR-35 PVC)	734	L.F.	\$35.00	\$25,690.00
	4' DIA. MANHOLE (1 at 400 ft spacing)	4	EA.	\$3,000.00	\$12,000.00
	5' DIA. MANHOLE (1 at 400 ft spacing)	0	EA.	\$4,200.00	\$0.00
	INTERMEDIATE PLATFORM	0	EA.	\$500.00	\$0.00
	SEWER MAIN CONNECTION	0	EA.	\$2,000.00	\$0.00
	SEWER SERVICE LATERAL W/ WYE TAP	13	EA.	\$1,500.00	\$19,500.00
Total Cost					<b>\$57,190.00</b>





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 PREPARED BY: BPW

Length (ft) Taper (ft) Total Lots  
 1408 0 38

**DAMES ROCKET AVENUE DEMOLITION**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	REMOVE EXISTING ASPHALT(8" THICK)	0	S.Y.	\$8.00	\$0.00
	REMOVE EXISTING CONCRETE(6" THICK)	0	S.Y.	\$6.00	\$0.00
	REMOVE EXISTING PIPE	0	L.F.	\$5.00	\$0.00
	REMOVE EXISTING LIGHT	0	EA.	\$200.00	\$0.00
	REMOVE EXISTING MANHOLE/INLET	0	EA.	\$500.00	\$0.00
Total Cost					<b>\$0.00</b>

**DAMES ROCKET AVENUE EARTHWORK**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	SUBGRADE PREPARATION(clearing & grubbing, 3" topsoil removal/stockpile)	5,632	S.Y.	\$2.00	\$11,264.00
	SUBGRADE PREPARATION TAPER(clearing & grubbing, 3" topsoil removal/stockpile)	0	S.Y.	\$2.00	\$0.00
	STREET GRADING (3xWxL)	0	C.Y.	\$3.00	\$0.00
	STREET OVEREXCAVATION (5' deep & moisture treatment per geotech report)	0	C.Y.	\$6.00	\$0.00
Total Cost					<b>\$11,264.00</b>

**DAMES ROCKET AVENUE WATER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	24" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$110.00	\$0.00
	16" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$80.00	\$0.00
	12" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$43.00	\$0.00
	8" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	1,461	L.F.	\$38.00	\$55,518.00
	6" WATERPIPE (DIP-FIRE HYDRANT LINE)	76	L.F.	\$20.00	\$1,520.00
	24" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.	\$18,500.00	\$0.00
	16" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.	\$16,000.00	\$0.00
	12" GATE VALVE W/ BOX (1 at 400 ft spacing)	0	EA.	\$3,000.00	\$0.00
	8" GATE VALVE W/ BOX (1 at 400 ft spacing)	5	EA.	\$2,000.00	\$10,000.00
	6" GATE VALVE W/ BOX	3	EA.	\$1,000.00	\$3,000.00
	FIRE HYDRANT ASSEMBLY (1 at 400 ft spacing)	3	EA.	\$4,400.00	\$13,200.00
	AIR/VAC VALVE W/ VAULT	0	EA.	\$6,500.00	\$0.00
	8" BLOWOFF (2" END OF PIPE)	0	EA.	\$1,500.00	\$0.00
	12" BLOWOFF (2" END OF PIPE)	0	EA.	\$2,500.00	\$0.00
	16" BLOWOFF (2" END OF PIPE)	0	EA.	\$3,700.00	\$0.00
	24" BLOWOFF (2" END OF PIPE)	0	EA.	\$4,700.00	\$0.00
	8" BEND	0	EA.	\$650.00	\$0.00
	12" BEND	0	EA.	\$1,200.00	\$0.00
	8" CROSS	0	EA.	\$1,300.00	\$0.00
	12" CROSS	0	EA.	\$1,300.00	\$0.00
	8" TEE	4	EA.	\$750.00	\$3,000.00
	12" TEE	0	EA.	\$1,050.00	\$0.00
	16" STEEL CASING PIPE	0	L.F.	\$120.00	\$0.00
	20" STEEL CASING PIPE	0	L.F.	\$150.00	\$0.00
	22" STEEL CASING PIPE	0	L.F.	\$165.00	\$0.00
	WATER MAIN CONNECTION	0	EA.	\$2,500.00	\$0.00
	WATER SERVICE LATERAL W/ WATER METER AND PIT	38	EA.	\$1,700.00	\$64,600.00
Total Cost					<b>\$150,838.00</b>

**DAMES ROCKET AVENUE SANITARY SEWER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	24" SEWER (SDR-35 PVC)	0	L.F.	\$72.00	\$0.00
	18" SEWER (SDR-35 PVC)	0	L.F.	\$67.00	\$0.00
	15" SEWER (SDR-35 PVC)	0	L.F.	\$65.00	\$0.00
	12" SEWER (SDR-35 PVC)	0	L.F.	\$60.00	\$0.00
	8" SEWER (SDR-35 PVC)	1,388	L.F.	\$35.00	\$48,580.00
	4' DIA. MANHOLE (1 at 400 ft spacing)	5	EA.	\$3,000.00	\$15,000.00
	5' DIA. MANHOLE (1 at 400 ft spacing)	0	EA.	\$4,200.00	\$0.00
	INTERMEDIATE PLATFORM	0	EA.	\$500.00	\$0.00
	SEWER MAIN CONNECTION	0	EA.	\$2,000.00	\$0.00
	SEWER SERVICE LATERAL W/ WYE TAP	38	EA.	\$1,500.00	\$57,000.00
Total Cost					<b>\$120,580.00</b>





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 Englewood, Colorado 80112  
 720.482.9526 Fax 720.482.9546

PROJECT: TRAILS AT CROWFOOT  
 CLIENT: E5X  
 FILING 5 COST ESTIMATE

JOB NUMBER: 8.13.0283701  
 DATE: 4/14/2017  
 PREPARED BY: BPW

Length (ft) Taper (ft) Total Lots  
 223 0 0

**BIRDS FOOT LANE**

**DEMOLITION**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	REMOVE EXISTING ASPHALT(8" THICK)	0	S.Y.	\$8.00	\$0.00
	REMOVE EXISTING CONCRETE(6" THICK)	0	S.Y.	\$6.00	\$0.00
	REMOVE EXISTING PIPE	0	L.F.	\$5.00	\$0.00
	REMOVE EXISTING LIGHT	0	EA.	\$200.00	\$0.00
	REMOVE EXISTING MANHOLE/INLET	0	EA.	\$500.00	\$0.00
Total Cost					<b>\$0.00</b>

**BIRDS FOOT LANE**

**EARTHWORK**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	SUBGRADE PREPARATION(clearing & grubbing, 3" topsoil removal/stockpile)	892	S.Y.	\$2.00	\$1,784.00
	SUBGRADE PREPARATION TAPER(clearing & grubbing, 3" topsoil removal/stockpile)	0	S.Y.	\$2.00	\$0.00
	STREET GRADING (3xWxL)	0	C.Y.	\$3.00	\$0.00
	STREET OVEREXCAVATION (5' deep & moisture treatment per geotech report)	0	C.Y.	\$6.00	\$0.00
Total Cost					<b>\$1,784.00</b>

**BIRDS FOOT LANE**

**WATER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	24" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$110.00	\$0.00
	16" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$80.00	\$0.00
	12" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$43.00	\$0.00
	8" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$38.00	\$0.00
	6" WATERPIPE (DIP-FIRE HYDRANT LINE)	0	L.F.	\$20.00	\$0.00
	24" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.	\$18,500.00	\$0.00
	16" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.	\$16,000.00	\$0.00
	12" GATE VALVE W/ BOX (1 at 400 ft spacing)	0	EA.	\$3,000.00	\$0.00
	8" GATE VALVE W/ BOX (1 at 400 ft spacing)	0	EA.	\$2,000.00	\$0.00
	6" GATE VALVE W/ BOX	0	EA.	\$1,000.00	\$0.00
	FIRE HYDRANT ASSEMBLY (1 at 400 ft spacing)	0	EA.	\$4,400.00	\$0.00
	AIR/VAC VALVE W/ VAULT	0	EA.	\$6,500.00	\$0.00
	8" BLOWOFF (2" END OF PIPE)	0	EA.	\$1,500.00	\$0.00
	12" BLOWOFF (2" END OF PIPE)	0	EA.	\$2,500.00	\$0.00
	16" BLOWOFF (2" END OF PIPE)	0	EA.	\$3,700.00	\$0.00
	24" BLOWOFF (2" END OF PIPE)	0	EA.	\$4,700.00	\$0.00
	8" BEND	0	EA.	\$650.00	\$0.00
	12" BEND	0	EA.	\$1,200.00	\$0.00
	8" CROSS	0	EA.	\$1,300.00	\$0.00
	12" CROSS	0	EA.	\$1,300.00	\$0.00
	8" TEE	0	EA.	\$750.00	\$0.00
	12" TEE	0	EA.	\$1,050.00	\$0.00
	16" STEEL CASING PIPE	0	L.F.	\$120.00	\$0.00
	20" STEEL CASING PIPE	0	L.F.	\$150.00	\$0.00
	22" STEEL CASING PIPE	0	L.F.	\$165.00	\$0.00
	WATER MAIN CONNECTION	0	EA.	\$2,500.00	\$0.00
	WATER SERVICE LATERAL W/ WATER METER AND PIT	0	EA.	\$1,700.00	\$0.00
Total Cost					<b>\$0.00</b>

**BIRDS FOOT LANE**

**SANITARY SEWER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	24" SEWER (SDR-35 PVC)	0	L.F.	\$72.00	\$0.00
	18" SEWER (SDR-35 PVC)	0	L.F.	\$67.00	\$0.00
	15" SEWER (SDR-35 PVC)	0	L.F.	\$65.00	\$0.00
	12" SEWER (SDR-35 PVC)	0	L.F.	\$60.00	\$0.00
	8" SEWER (SDR-35 PVC)	0	L.F.	\$35.00	\$0.00
	4' DIA. MANHOLE (1 at 400 ft spacing)	0	EA.	\$3,000.00	\$0.00
	5' DIA. MANHOLE (1 at 400 ft spacing)	0	EA.	\$4,200.00	\$0.00
	INTERMEDIATE PLATFORM	0	EA.	\$500.00	\$0.00
	SEWER MAIN CONNECTION	0	EA.	\$2,000.00	\$0.00
	SEWER SERVICE LATERAL W/ WYE TAP	0	EA.	\$1,500.00	\$0.00
Total Cost					<b>\$0.00</b>



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BIRDS FOOT LANE		STORM SEWER			
Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	15" STORM SEWER (Class III RCP)	0	L.F.	\$40.00	\$0.00
	18" STORM SEWER (Class III RCP)	0	L.F.	\$45.00	\$0.00
	24" STORM SEWER (Class III RCP)	0	L.F.	\$60.00	\$0.00
	30" STORM SEWER (Class III RCP)	0	L.F.	\$90.00	\$0.00
	36" STORM SEWER (Class III RCP)	0	L.F.	\$120.00	\$0.00
	42" STORM SEWER (Class III RCP)	0	L.F.	\$150.00	\$0.00
	48" STORM SEWER (Class III RCP)	0	L.F.	\$190.00	\$0.00
	54" STORM SEWER (Class III RCP)	0	L.F.	\$220.00	\$0.00
	60" STORM SEWER (Class III RCP)	0	L.F.	\$250.00	\$0.00
	4x6' BOX CULVERT (Class III RCBC)	0	L.F.	\$600.00	\$0.00
	6'X10' BOX CULVERT (Class III RCBC)	0	L.F.	\$875.00	\$0.00
	HEADWALL (PER CDOT STANDARD) (includes handrails) WITH WINGWALLS	0	EA.	\$50,000.00	\$0.00
	4' DIA. MANHOLE	0	EA.	\$2,400.00	\$0.00
	5' DIA. MANHOLE	0	EA.	\$3,000.00	\$0.00
	TYPE R INLET (5')	0	EA.	\$4,500.00	\$0.00
	TYPE R INLET (10')	0	EA.	\$6,000.00	\$0.00
	TYPE R INLET (15')	0	EA.	\$8,500.00	\$0.00
	18" FES	0	EA.	\$550.00	\$0.00
	24" FES	0	EA.	\$700.00	\$0.00
	30" FES	0	EA.	\$1,100.00	\$0.00
	36" FES	0	EA.	\$1,700.00	\$0.00
	48" FES	0	EA.	\$2,400.00	\$0.00
Total Cost					\$0.00

BIRDS FOOT LANE		ROADWAYS			
Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	FULL DEPTH ASPHALT PAVEMENT (9" THICK)	743	S.Y.	\$40.00	\$29,733.00
	TEMPORARY ASPHALT TRANSITION (9" THICK)	0	S.Y.	\$40.00	\$0.00
	CONCRETE PAVEMENT (10" THICK)	0	S.Y.	\$80.00	\$0.00
	6" CONCRETE CURB & GUTTER WITH 2' PAN	446	L.F.	\$12.50	\$5,575.00
	6" CONCRETE CURB & GUTTER WITH 1' PAN	0	L.F.	\$12.50	\$0.00
	4" TRENCH DRAIN (PVC) W/ CLEANOUTS, FILTER FABRIC, AND FILTER MATERIAL	0	L.F.	\$10.00	\$0.00
	6'X10' CONCRETE SIDEWALK W/ FIBER MESH	446	L.F.	\$40.00	\$17,840.00
	CONCRETE CROSSPAN (6" THICK)	0	EA.	\$2,500.00	\$0.00
	HANDICAP RAMPS	0	EA.	\$1,500.00	\$0.00
	STRIPING 1/2 width (2 solid edge lines and 2 dashed lane lines - typ)	0	L.F.	\$0.35	\$0.00
	STRIPING taper (centerline - typ)	0	L.F.	\$0.35	\$0.00
	SIGNAGE (1 Sign every 300 feet)	2	EA.	\$300.00	\$523.00
Total Cost					\$53,671.00

BIRDS FOOT LANE		DRY UTILITIES			
Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	ON-SITE STREET GAS LINES	0	L.F.	\$1.00	\$0.00
	ON-SITE STREET ELECTRIC LINES	0	L.F.	\$1.00	\$0.00
	LOT GAS SERVICE	0	EA.	\$1.00	\$0.00
	LOT ELECTRIC SERVICE	0	EA.	\$1.00	\$0.00
	STREET LIGHTS (ONE SIDE AT 180' SPACING)	0	EA.	\$1.00	\$0.00
Total Cost					\$0.00

BIRDS FOOT LANE		LANDSCAPING/MONUMENTATION			
Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	STREETSCAPE LANDSCAPING (MEDIANS/SIDEWALK STRIP)	0	L.F.	\$1.00	\$0.00
	FENCING	0	L.F.	\$1.00	\$0.00
	IRRIGATION AND SLEEVEING	0	L.F.	\$1.00	\$0.00
	MONUMENTATION	0	LS	\$1.00	\$0.00
Total Cost					\$0.00