

# **APPENDIX C**

## **ENGINEERS ESTIMATE OF PROBABLE COSTS**

**CHEYENNE GREENWAY  
ENGINEER'S OPINION OF PROBABLE COSTS  
GREENWAY IMPROVEMENTS**



**SUMMARY OF GREENWAY SEGMENT COST IN 2009 DOLLARS**

2007 Greenway Extension Segment Description	Estimated Cost
Holliday Park Connection	
Pedestrian Overpass (Holliday Park to Dunn Avenue)	\$1,700,000.00
Holliday Park Connection (Dunn Ave. to Henderson Drive)	\$440,000.00
Sun Valley Detention Pond	\$840,000.00
South Sections:	
South Park Estates: Partoyan Avenue to Deming Drive/ Walterscheid Blvd.	\$410,000.00
Walterscheid Blvd: Fox Farm Road to Safe Routes for Schools	\$190,000.00
Cribbon Avenue: I-80 Overpass to Goins Elementary School	\$160,000.00
Alternate 1 Section (South Cribbon Ave: Goins School To Allison Road)	\$110,000.00
Alternate 2 Section (Snyder Ave: Johnson JR. High School To Allison Road)	\$110,000.00
<b>TOTAL GREENWAY ESTIMATED COSTS</b>	<b>\$ 3,960,000.00</b>

**GENERAL NOTES:**

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**Estimated By: JDP, TDC**

**Date: 23-Sep-2009**

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Item	Description	Unit	Unit Price	Quantity	Cost
<b>PEDESTRIAN OVERPASS (HOLLIDAY PARK TO DUNN)</b>					
1	Earthwork	CY	\$ 7.50	600.00	\$4,500.00
2	Removal of Curb & Gutter	LF	\$ 4.00	598.00	\$2,392.00
3	Removal of Asphalt Pavment	SY	\$ 5.00	-	\$0.00
4	Hydraulic Seeding and Mulching (Dryland)	SY	\$ 1.00	6,300.00	\$6,300.00
5	4" Crushed Base Grading "W"	CY	\$ 24.25	240.00	\$5,820.00
6	Concrete Path (4")	SY	\$ 35.00	2,200.00	\$77,000.00
7	24" Curb & Gutter Type "A"	LF	\$ 20.00	670.00	\$13,400.00
8	100' Span x 8' Overpass (Keystone Box Truss)	LS	\$ 230,000.00	1.00	\$230,000.00
9	Steel Approach Ramps and Decking	LS	\$ 720,000.00	1.00	\$720,000.00
10	Mobilization (15%)	LS	\$ 159,000.00	1.00	\$159,000.00
11	Contract Bond and Insurance	LS	\$ 10,000.00	1.00	\$10,000.00
12	Engineering Design (10%)	LS	\$ 122,900.00	1.00	\$122,900.00
13	Utility Relocates	LS	\$ 50,000.00	1.00	\$50,000.00
14	20% Contingency	LS	\$ 280,270.00	1.00	\$280,270.00
<b>TOTAL PEDESTRIAN OVERPASS (HOLLIDAY PARK TO DUNN)</b>					<b>\$1,681,582.00</b>
<b>TOTAL PEDESTRIAN OVERPASS (HOLLIDAY PARK TO DUNN) FOR ESTIMATE</b>					<b>\$ 1,700,000</b>

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Item	Description	Unit	Unit Price	Quantity	Cost
<b>HOLLIDAY PARK CONNECTION (DUNN AVE. TO HENDERSON DRIVE)</b>					
1	Earthwork	CY	\$ 7.50	911.00	\$6,832.50
2	Hydraulic Seeding and Mulching (Dryland)	SY	\$ 1.00	11,812.00	\$11,812.00
3	4" Crushed Base Grading "W"	CY	\$ 24.25	370.00	\$8,972.50
4	Concrete Path (4")	SY	\$ 35.00	3,280.00	\$114,800.00
5	Install 8' Industrial Fence	LF	\$ 30.00	1,725.00	\$51,750.00
6	Install 6' Chainlink Fence	LF	\$ 21.00	2,002.00	\$42,042.00
10	Mobilization (10%)	LS	\$ 24,000.00	1.00	\$24,000.00
11	Contract Bond and Insurance	LS	\$ 5,300.00	1.00	\$5,300.00
12	Right of Way Acquisition Costs	LS			
	Crook Avenue Parcels:				
	Union Pacific Parcel	SF	\$ 2.00	21,601.40	\$43,202.80
	Union Pacific Parcel	SF	\$ 2.00	1,481.30	\$2,962.60
	Releigh Avenue Parcel:				
	Union Pacific Parcel	SF	\$ 4.50	7,431.60	\$33,442.20
13	Engineering Design (7.5%)	LS	\$ 20,000.00	1.00	\$20,000.00
14	20% Contingency	LS	\$ 73,030.00	1.00	\$73,030.00
<b>TOTAL HOLLIDAY PARK CONNECTION (DUNN AVE. TO HENDERSON)</b>					<b>\$438,146.60</b>
<b>TOTAL HOLLIDAY PARK CONNECTION (DUNN AVE. TO HENDERSON) FOR ESTIMATE</b>					<b>\$ 440,000</b>

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Item	Description	Unit	Unit Price	Quantity	Cost
<b>SUN VALLEY DETENTION POND (EAST COLLEGE DRIVE TO TAFT AVENUE)</b>					
1	Earthwork	CY	\$ 7.50	2,340.00	\$17,550.00
2	Removal of Structures and Obstructions	LS	\$ 20,000.00	1.00	\$20,000.00
3	Removal of Curb & Gutter	LF	\$ 4.00	30.00	\$120.00
4	Removal of Asphalt Pavment	SY	\$ 5.00	-	\$0.00
5	Hydraulic Seeding and Mulching (Dryland)	SY	\$ 1.00	30,820.00	\$30,820.00
6	4" Crushed Base Grading "W"	CY	\$ 24.25	960.00	\$23,280.00
7	Concrete Pavement (6")	SY	\$ 50.00	8,400.00	\$420,000.00
8	Concrete Path (4")	SY	\$ 35.00	200.00	\$7,000.00
9	Install 8' Industrial Fence	LF	\$ 30.00	430.00	\$12,900.00
10	Install 6' Chainlink Fence	LF	\$ 21.00	30.00	\$630.00
11	Install 4' Greenway Fence	LF	\$ 15.00	700.00	\$10,500.00
12	Bridge Structures	EA	\$ 20,000.00	2.00	\$40,000.00
13	Mobilization (10%)	LS	\$ 59,000.00	1.00	\$59,000.00
14	Contract Bond and Insurance	LS	\$ 5,200.00	1.00	\$5,200.00
15	Engineering Design (7.5%)	LS	\$ 48,600.00	1.00	\$48,600.00
16	20% Contingency	LS	\$ 139,120.00	1.00	\$139,120.00
<b>TOTAL DETENTION POND SECTION</b>					<b>\$834,720.00</b>
<b>TOTAL DETENTION POND SECTION FOR ESTIMATE</b>					<b>\$ 840,000</b>

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Item	Description	Unit	Unit Price	Quantity	Cost
<b>SOUTH PARK ESTATES SECTION</b>					
1	Earthwork	LS	\$ 7.50	790.00	\$5,925.00
2	Removal of Concrete	SY	\$ 12.00	3,105.00	\$37,260.00
3	Removal of Curb & Gutter	LF	\$ 4.00	279.00	\$1,116.00
4	Removal of Asphalt Pavment	SY	\$ 5.00	-	\$0.00
5	Hydraulic Seeding and Mulching (Dryland)	SY	\$ 1.00	10,130.00	\$10,130.00
6	4" Crushed Base Grading "W"	CY	\$ 24.25	320.00	\$7,760.00
7	Concrete Path (4")	SY	\$ 35.00	2,820.00	\$98,700.00
8	4" Concrete Sidewalk	SY	\$ 32.50	60.00	\$1,950.00
9	24" Curb & Gutter Type "A"	LF	\$ 20.00	840.00	\$16,800.00
10	Install 4' Greenway Fence	LF	\$ 15.00	720.00	\$10,800.00
11	Retaining Walls	SF	\$ 35.00	2,610.00	\$91,350.00
12	Mobilization (10%)	LS	\$ 29,000.00	1.00	\$29,000.00
13	Contract Bond and Insurance	LS	\$ 6,300.00	1.00	\$6,300.00
14	Engineering Design (7.5%)	LS	\$ 23,800.00	1.00	\$23,800.00
15	20% Contingency	LS	\$ 68,180.00	1.00	\$68,180.00
<b>TOTAL SOUTH PARK SECTION</b>					<b>\$409,071.00</b>
<b>TOTAL SOUTH PARK SECTION FOR ESTIMATE</b>					<b>\$ 410,000</b>

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Item	Description	Unit	Unit Price	Quantity	Cost
<b>WALTERSCHEID BLVD. (FOX FARM ROAD TO SAFE ROUTES FOR SCHOOLS)</b>					
1	Earthwork	LS	\$ -	690.00	\$0.00
2	Removal of Concrete	SY	\$ 12.00	6,760.00	\$81,120.00
3	Hydraulic Seeding and Mulching (Dryland)	SY	\$ 1.00	8,820.00	\$8,820.00
4	4" Crushed Base Grading "W"	CY	\$ 24.25	280.00	\$6,790.00
5	Concrete Path (4")	SY	\$ 35.00	2,450.00	\$85,750.00
6	Mobilization (10%)	LS	\$ 19,000.00	1.00	\$19,000.00
7	Contract Bond and Insurance	LS	\$ 4,100.00	1.00	\$4,100.00
8	Engineering Design (7.5%)	LS	\$ 15,500.00	1.00	\$15,500.00
9	20% Contingency	LS	\$ 44,220.00	1.00	\$44,220.00
<b>TOTAL WALTERSCHEID BLVD.</b>					<b>\$182,480.00</b>
<b>TOTAL WALTERSCHEID SECTION FOR ESTIMATE</b>					<b>\$ 190,000</b>

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Item	Description	Unit	Unit Price	Quantity	Cost
<b>CRIBBON SECTION (I-80 OVERPASS TO GOINS ELEMENTARY SCHOOL)</b>					
1	Earthwork	CY	\$ 7.50	340.00	\$2,550.00
2	Removal of Concrete	SY	\$ 12.00	4,654.00	\$55,848.00
3	Removal of Curb & Gutter	LF	\$ 4.00	1,075.00	\$4,300.00
4	Removal of Asphalt Pavment	SY	\$ 5.00	250.00	\$1,250.00
5	Remove and Reset Existing Sign	EA	\$ 200.00	11.00	\$2,200.00
6	Hydraulic Seeding and Mulching (Dryland)	SY	\$ 1.00	4,300.00	\$4,300.00
7	4" Crushed Base Grading "W"	CY	\$ 24.25	140.00	\$3,395.00
8	Concrete Path (4")	SY	\$ 35.00	1,200.00	\$42,000.00
9	6" Asphalt Patching	SY	\$ 50.00	250.00	\$12,500.00
10	24" Curb & Gutter Type "A"	LF	\$ 20.00	1,130.00	\$22,600.00
11	4" Concrete Sidewalk	SY	\$ 32.50	130.00	\$4,225.00
12	Mobilization (10%)	LS	\$ 16,000.00	1.00	\$16,000.00
13	Contract Bond and Insurance	LS	\$ 3,500.00	1.00	\$3,500.00
14	Engineering Design (7.5%)	LS	\$ 13,200.00	1.00	\$13,200.00
15	20% Contingency	LS	\$ 37,580.00	1.00	\$37,580.00
<b>CRIBBON SECTION (I-80 OVERPASS TO GOINS ELEMENTARY SCHOOL)</b>					<b>\$155,168.00</b>
<b>CRIBBON SECTION (I-80 OVERPASS TO GOINS ELEMENTARY SCHOOL) FOR ESTIMATE</b>					<b>\$ 160,000</b>



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Item	Description	Unit	Unit Price	Quantity	Cost
<b>ALTERNATE 1 SECTION (SOUTH CRIBBON AVE: GOINS SCHOOL TO ALLISON ROAD)</b>					
1	Earthwork	CY	\$ 7.50	350.00	\$2,625.00
2	Removal of Concrete	SY	\$ 12.00	4,458.00	\$53,496.00
3	Remove and Reset Existing Sign	EA	\$ 200.00	-	\$0.00
4	Hydraulic Seeding and Mulching (Dryland)	SY	\$ 1.00	1,240.00	\$1,240.00
5	4" Crushed Base Grading "W"	CY	\$ 24.25	140.00	\$3,395.00
6	Concrete Path (4")	SY	\$ 35.00	1,240.00	\$43,400.00
7	Mobilization (10%)	LS	\$ 11,000.00	1.00	\$11,000.00
8	Contract Bond and Insurance	LS	\$ 2,400.00	1.00	\$2,400.00
9	Engineering Design (7.5%)	LS	\$ 8,900.00	1.00	\$8,900.00
10	20% Contingency	LS	\$ 25,300.00	1.00	\$25,300.00
<b>ALTERNATE 1 SECTION (SOUTH CRIBBON AVE: GOINS SCHOOL TO ALLISON ROAD)</b>					<b>\$104,156.00</b>
<b>ALTERNATE 1 SECTION (SOUTH CRIBBON AVE: GOINS SCHOOL TO ALLISON ROAD) FOR ESTIMATE</b>					<b>\$ 110,000</b>

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<b>ALTERNATE 2 SECTION (SNYDER AVE: JOHNSON JR. HIGH SCHOOL TO ALLISION ROAD)</b>					
1	Earthwork	CY	\$ 7.50	340.00	\$2,550.00
2	Removal of Concrete	SY	\$ 12.00	4,687.00	\$56,244.00
3	Removal of Curb & Gutter	LF	\$ 4.00	-	\$0.00
4	Hydraulic Seeding and Mulching (Dryland)	SY	\$ 1.00	1,190.00	\$1,190.00
5	4" Crushed Base Grading "W"	CY	\$ 24.25	140.00	\$3,395.00
6	Concrete Path (4")	SY	\$ 35.00	1,189.53	\$41,633.63
7	24" Curb & Gutter Type "A"	LF	\$ 20.00	147.52	\$2,950.40
8	4" Concrete Sidewalk	SY	\$ 32.50	30.00	\$975.00
8	Mobilization (10%)	LS	\$ 11,000.00	1.00	\$11,000.00
9	Contract Bond and Insurance	LS	\$ 2,400.00	1.00	\$2,400.00
10	Engineering Design (7.5%)	LS	\$ 9,200.00	1.00	\$9,200.00
11	20% Contingency	LS	\$ 26,310.00	1.00	\$26,310.00
<b>ALTERNATE 2 SECTION (SNYDER AVE: JOHNSON JR. HIGH SCHOOL TO ALLISION ROAD)</b>					<b>\$108,938.03</b>
<b>ALTERNATE 2 SECTION (SNYDER AVE: JOHNSON JR. HIGH SCHOOL TO ALLISION ROAD) FOR ESTIMATE</b>					<b>\$ 110,000</b>