

APPENDIX D

Cost Estimates



Project #: 3987.16
 Project Name: WHITNEY ROAD CORRIDOR PLAN

WHITNEY ROAD (STOREY BLVD TO DELL RANGE) OPINION OF COST

Item No.	Item	Total	Unit	Engineers Estimate	
				Unit Price	Total
1020.01	BONDS AND INSURANCE	1	LS	\$ 24,000.00	\$ 24,000.00
1020.02	CONTRACTOR TESTING	1	LS	\$ 20,000.00	\$ 20,000.00
1020.03	POTHOLING UTILITIES (NON-DESTRUCTIVE)	1	LS	\$ 5,000.00	\$ 5,000.00
1030.01	MOBILIZATION	1	LS	\$ 166,925.00	\$ 166,925.00
1050.01	TRAFFIC CONTROL	1	LS	\$ 25,000.00	\$ 25,000.00
1563.01	STORMWATER MANAGEMENT & EROSION CONTROL	1	LS	\$ 15,000.00	\$ 15,000.00
2050.01	REMOVAL OF EXISTING ASPHALT	16,320	SY	\$ 8.60	\$ 140,352.00
2210.01	UNCLASSIFIED EXCAVATION - 12" Deep	10,250	CY	\$ 34.00	\$ 348,500.00
2231.01	CRUSHED BASE - 6"	11,120	Ton	\$ 24.55	\$ 272,996.00
2231.02	CRUSHED BASE - 4"	1,450	Ton	\$ 24.55	\$ 35,597.50
2500.00	CEMENT STABILIZATION FULL DEPTH RECLAMATION	34,810	SY	\$ 11.50	\$ 400,315.00
2512.01	PLANT MIX BITUMINOUS PAVEMENT (TYPE II) GRADING 'A' - 2"	34,810	SY	\$ 17.50	\$ 609,175.00
2512.02	PLANT MIX BITUMINOUS PAVEMENT (TYPE II) GRADING 'D' - 3"	34,810	SY	\$ 20.00	\$ 696,200.00
2900.02	LANDSCAPING (RESTORE AND RECLAIM)	4.0	AC	\$ 2,500.00	\$ 10,000.00
3330.01	CURB AND GUTTER - TYPE A	11,630	LF	\$ 19.50	\$ 226,785.00
3340.03	CONCRETE SIDEWALK - 6' WIDE	3,925	SY	\$ 46.50	\$ 182,512.50
3340.02	CONCRETE DRIVEWAY APPROACH - 8 INCH	50	SY	\$ 83.85	\$ 4,192.50
3340.03	12' VALLEY PAN	150	SY	\$ 83.85	\$ 12,577.50
4000.01	PAVEMENT MARKINGS (EXPOXY PAINT LINE 4 INCH)	22,650	LF	\$ 0.30	\$ 6,795.00
7023.03	SIGN POST, SQ TUBULAR STL	8	EA	\$ 147.50	\$ 1,180.00
7023.05	SIGN PANELS, ALUMINUM	32	SF	\$ 23.15	\$ 740.80
7000.01	ROADWAY LIGHTING	1	LS	\$ 110,000.00	\$ 110,000.00
SUB-TOTAL					\$ 3,313,843.80
	CONTINGENCY (20%)	1	LS	\$ 662,769.00	\$ 662,769.00
SUB-TOTAL CONSTRUCTION COST					\$ 3,976,612.80
	ENGINEER DESIGN (10%)	1	LS	\$ 331,384.00	\$ 331,384.00
SUB-TOTAL ENGINEERING					\$ 331,384.00
TOTAL PROJECT					\$ 4,307,996.80
FOR ESTIMATE					\$ 4,310,000.00

Footnotes:

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- (2) Right-of-way costs are based on previous projects in 2015 for City of Cheyenne, City of Laramie, at 2.5% Inflation Rate (AVI, pc) (i.e. Vacant, Commercial Level 2)
- (3) Please note totals and unit prices are calculated based on present worth or present value dollars. Adjustments should be made for years beyond the present year to better estimate required capital dollars for future improvements plan(s).
- (4) Landscaping (Restore and Reclaim) for areas adjacent to right-of-way.
- (5) Estimated values of Contract Bond and Insurance and Mobilization were estimated at 0.8% and 5.5% of total construction cost, respectively.
- (6) Right-of-way estimated for Whitney Road and Dell Range Only based on GIS and available plat data.



Project #: 3987.16
 Project Name: WHITNEY ROAD CORRIDOR PLAN

WHITNEY ROAD (DELL RANGE INTERSECTION (RAB; SLIP LANE)) OPINION OF COST

Item No.	Item	Total	Unit	Engineers Estimate	
				Unit Price	Total
1020.01	BONDS AND INSURANCE	1	LS	\$ 9,000.00	\$ 9,000.00
1020.02	CONTRACTOR TESTING	1	LS	\$ 5,000.00	\$ 5,000.00
1020.03	POTHOLING UTILITIES (NON-DESTRUCTIVE)	1	LS	\$ 2,000.00	\$ 2,000.00
1030.01	MOBILIZATION	1	LS	\$ 62,069.00	\$ 62,069.00
1050.01	TRAFFIC CONTROL	1	LS	\$ 25,000.00	\$ 25,000.00
1563.01	STORMWATER MANAGEMENT & EROSION CONTROL	1	LS	\$ 5,000.00	\$ 5,000.00
2050.01	REMOVAL OF EXISTING ASPHALT	5,800	SY	\$ 8.60	\$ 49,880.00
2210.01	UNCLASSIFIED EXCAVATION - 12" Deep	1,940	CY	\$ 34.00	\$ 65,960.00
2231.01	CRUSHED BASE - 6"	540	Ton	\$ 24.55	\$ 13,257.00
2231.02	CRUSHED BASE - 4"	1,660	Ton	\$ 24.55	\$ 40,753.00
2500.00	CEMENT STABILIZATION FULL DEPTH RECLAMATION	5,110	SY	\$ 11.50	\$ 58,765.00
2514.08	COLORED CONCRETE PAVEMENT	965	SY	\$ 50.00	\$ 48,250.00
2512.01	PLANT MIX BITUMINOUS PAVEMENT (TYPE II) GRADING 'A' - 2"	1,590	SY	\$ 17.50	\$ 27,825.00
2512.02	PLANT MIX BITUMINOUS PAVEMENT (TYPE II) GRADING 'D' - 3"	1,590	SY	\$ 20.00	\$ 31,800.00
2514.08	CONCRETE PAVEMENT (8 IN)	4,590	SY	\$ 111.00	\$ 509,490.00
2900.02	LANDSCAPING (RESTORE AND RECLAIM)	2.0	AC	\$ 2,500.00	\$ 5,000.00
2900.03	LANDSCAPING (RAB)	1	LS	\$ 55,000.00	\$ 55,000.00
3330.01	CURB AND GUTTER - TYPE A	2,225	LF	\$ 19.50	\$ 43,387.50
3340.03	CONCRETE SIDEWALK - 6' WIDE	1,450	SY	\$ 46.50	\$ 67,425.00
4000.01	PAVEMENT MARKINGS	1	LS	\$ 10,000.00	\$ 10,000.00
7023.03	SIGN POST, SQ TUBULAR STL	20	EA	\$ 147.50	\$ 2,950.00
7023.05	SIGN PANELS, ALUMINUM	120	SF	\$ 23.15	\$ 2,778.00
7000.01	ROADWAY LIGHTING	1	LS	\$ 50,000.00	\$ 50,000.00
SUB-TOTAL					\$ 1,190,589.50
	CONTINGENCY (15%)	1	LS	\$ 178,588.00	\$ 178,588.00
SUB-TOTAL CONSTRUCTION COST					\$ 1,369,177.50
	ENGINEER DESIGN (10%)	1	LS	\$ 119,059.00	\$ 119,059.00
SUB-TOTAL ENGINEERING					\$ 119,059.00
	RIGHT OF WAY ACQUISITION (LEVEL 2 COMMERCIAL)	9,500	SF	\$ 12.60	\$ 119,700.00
SUB-TOTAL RIGHT-OF-WAY					\$ 119,700.00
TOTAL PROJECT					\$ 1,488,236.50
FOR ESTIMATE					\$ 1,490,000.00

Footnotes:

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- (3) Please note totals and unit prices are calculated based on present worth or present value dollars. Adjustments should be made for years beyond the present year to better estimate required capital dollars for future improvements plan(s).
- (4) Landscaping (Restore and Reclaim) for areas adjacent to right-of-way.
- (5) Estimated values of Contract Bond and Insurance and Mobilization were estimated at 0.8% and 5.5% of total construction cost, respectively.
- (6) Right-of-way estimated for Whitney Road and Dell Range Only based on GIS and available plat data.



Project #: 3987.16
 Project Name: WHITNEY ROAD CORRIDOR PLAN

WHITNEY ROAD (DELL RANGE INTERSECTION (SIGNALIZED)) OPINION OF COST

Item No.	Item	Total	Unit	Engineers Estimate	
				Unit Price	Total
1020.01	BONDS AND INSURANCE	1	LS	\$ 9,000.00	\$ 9,000.00
1020.02	CONTRACTOR TESTING	1	LS	\$ 5,000.00	\$ 5,000.00
1020.03	POTHOLING UTILITIES (NON-DESTRUCTIVE)	1	LS	\$ 2,000.00	\$ 2,000.00
1030.01	MOBILIZATION	1	LS	\$ 57,748.00	\$ 57,748.00
1050.01	TRAFFIC CONTROL	1	LS	\$ 25,000.00	\$ 25,000.00
1563.01	STORMWATER MANAGEMENT & EROSION CONTROL	1	LS	\$ 5,000.00	\$ 5,000.00
2050.01	REMOVAL OF EXISTING ASPHALT	5,800	SY	\$ 8.60	\$ 49,880.00
2210.01	UNCLASSIFIED EXCAVATION - 12" Deep	1,940	CY	\$ 34.00	\$ 65,960.00
2231.01	CRUSHED BASE - 6"	1,710	Ton	\$ 24.55	\$ 41,980.50
2231.02	CRUSHED BASE - 4"	650	Ton	\$ 24.55	\$ 15,958.00
2500.00	CEMENT STABILIZATION FULL DEPTH RECLAMATION	5,110	SY	\$ 11.50	\$ 58,765.00
2514.08	COLORED CONCRETE PAVEMENT	965	SY	\$ 50.00	\$ 48,250.00
2512.01	PLANT MIX BITUMINOUS PAVEMENT (TYPE II) GRADING 'A' - 2"	5,110	SY	\$ 17.50	\$ 89,425.00
2512.02	PLANT MIX BITUMINOUS PAVEMENT (TYPE II) GRADING 'D' - 3"	5,110	SY	\$ 20.00	\$ 102,200.00
2900.02	LANDSCAPING (RESTORE AND RECLAIM)	2.0	AC	\$ 2,500.00	\$ 5,000.00
3330.01	CURB AND GUTTER - TYPE A	2,225	LF	\$ 19.50	\$ 43,387.50
3340.03	CONCRETE SIDEWALK - 6' WIDE	1,450	SY	\$ 46.50	\$ 67,425.00
4000.01	PAVEMENT MARKINGS	1	LS	\$ 10,000.00	\$ 10,000.00
7023.03	SIGN POST, SQ TUBULAR STL	20	EA	\$ 147.50	\$ 2,950.00
7023.05	SIGN PANELS, ALUMINUM	120	SF	\$ 23.15	\$ 2,778.00
7000.01	ROADWAY LIGHTING AND SIGNALIZATION	1	LS	\$ 400,000.00	\$ 400,000.00
SUB-TOTAL					\$ 1,107,707.00
	CONTINGENCY (15%)	1	LS	\$ 166,156.00	\$ 166,156.00
SUB-TOTAL CONSTRUCTION COST					\$ 1,273,863.00
	ENGINEER DESIGN (10%)	1	LS	\$ 110,771.00	\$ 110,771.00
SUB-TOTAL ENGINEERING					\$ 110,771.00
	RIGHT OF WAY ACQUISITION (LEVEL 2 COMMERCIAL)	0	SF	\$ 12.60	\$ -
SUB-TOTAL RIGHT-OF-WAY					\$ -
TOTAL PROJECT					\$ 1,384,634.00
FOR ESTIMATE					\$ 1,390,000.00

Footnotes:

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- (4) Landscaping (Restore and Reclaim) for areas adjacent to right-of-way.
- (5) Estimated values of Contract Bond and Insurance and Mobilization were estimated at 0.8% and 5.5% of total construction cost, respectively.
- (6) Right-of-way estimated for Whitney Road and Dell Range Only based on GIS and available plat data.



Project #: **3987.16**
 Project Name: **WHITNEY ROAD CORRIDOR PLAN**

WHITNEY ROAD (DELL RANGE BLVD. TO US 30) OPINION OF COST

Item No.	Item	Total	Unit	Engineers Estimate	
				Unit Price	Total
1020.01	BONDS AND INSURANCE	1	LS	\$ 16,000.00	\$ 16,000.00
1020.02	CONTRACTOR TESTING	1	LS	\$ 20,000.00	\$ 20,000.00
1020.03	POTHOLING UTILITIES (NON-DESTRUCTIVE)	1	LS	\$ 5,000.00	\$ 5,000.00
1030.01	MOBILIZATION	1	LS	\$ 112,740.00	\$ 112,740.00
1050.01	TRAFFIC CONTROL	1	LS	\$ 25,000.00	\$ 25,000.00
1563.01	STORMWATER MANAGEMENT & EROSION CONTROL	1	LS	\$ 15,000.00	\$ 15,000.00
2050.01	REMOVAL OF EXISTING ASPHALT	5,280	SY	\$ 8.60	\$ 45,408.00
2210.01	UNCLASSIFIED EXCAVATION - 12" Deep	1,800	CY	\$ 34.00	\$ 61,200.00
2231.01	CRUSHED BASE - 6"	4,180	Ton	\$ 24.55	\$ 102,619.00
2231.02	CRUSHED BASE - 4"	800	Ton	\$ 24.55	\$ 19,640.00
2500.00	CEMENT STABILIZATION FULL DEPTH RECLAMATION	12,625	SY	\$ 11.50	\$ 145,188.00
2512.01	PLANT MIX BITUMINOUS PAVEMENT (TYPE II) GRADING 'A' - 2"	12,625	SY	\$ 17.50	\$ 220,937.50
2512.02	PLANT MIX BITUMINOUS PAVEMENT (TYPE II) GRADING 'D' - 3"	12,625	SY	\$ 20.00	\$ 252,500.00
2645.00	FIRE HYDRANT ASSEMBLY	5	EA	\$ 7,500.00	\$ 37,500.00
2665.01	WATER MAIN PVC (C-900) 12"	2,100	LF	\$ 75.00	\$ 157,500.00
2665.02	GATE VALVE (AND BOX) - 12"	17	EA	\$ 3,415.00	\$ 58,055.00
2665.03	12" FITTING	10	EA	\$ 1,200.00	\$ 12,000.00
2700.01	SANITARY SEWER MANHOLE - 48" DIA	6	EA	\$ 7,500.00	\$ 45,000.00
2700.02	SANITARY SEWER MAIN PVC SDR 35 - 8"	1,475	LF	\$ 65.00	\$ 95,875.00
2725.01	STORM SEWER MAIN - 36"	1,800	LF	\$ 125.00	\$ 225,000.00
2725.02	STORM SEWER MAIN - 18"	615	LF	\$ 65.00	\$ 39,975.00
2725.03	36" FLARED END SECTION	3	EA	\$ 5,000.00	\$ 15,000.00
2725.04	INLET	7	EA	\$ 6,800.00	\$ 47,600.00
2725.05	STORM SEWER MANHOLE	6	EA	\$ 6,500.00	\$ 39,000.00
2900.02	LANDSCAPING (RESTORE AND RECLAIM)	2.0	ACRE	\$ 2,500.00	\$ 5,000.00
3330.01	CURB AND GUTTER - TYPE A	5,395	LF	\$ 19.50	\$ 105,202.50
3340.02	CONCRETE SIDEWALK - 6' WIDE	2,290	SY	\$ 46.50	\$ 106,485.00
3340.03	CONCRETE DRIVEWAY APPROACH - 8 INCH	115	SY	\$ 83.85	\$ 9,642.75
3340.04	CONCRETE VALLEYPAN	45	SY	\$ 83.85	\$ 3,773.25
4000.01	PAVEMENT MARKINGS (EXPOXY PAINT LINE 4 INCH)	22,650	LF	\$ 0.30	\$ 6,795.00
7023.03	SIGN POST, SQ TUBULAR STL	8	EA	\$ 147.50	\$ 1,180.00
7023.05	SIGN PANELS, ALUMINUM	32	SF	\$ 23.15	\$ 740.80
7000.01	ROADWAY LIGHTING	1	LS	\$ 110,000.00	\$ 110,000.00
SUB-TOTAL					\$ 2,162,556.80
	CONTINGENCY (20%)	1	LS	\$ 432,511.00	\$ 432,511.00
SUB-TOTAL CONSTRUCTION COST					\$ 2,595,067.80
	ENGINEER DESIGN (10%)	1	LS	\$ 216,256.00	\$ 216,256.00
SUB-TOTAL ENGINEERING					\$ 216,256.00
	RIGHT OF WAY ACQUISITION (LEVEL 2 COMMERCIAL)	8,577	SF	\$ 12.60	\$ 108,070.20
SUB-TOTAL RIGHT-OF-WAY					\$ 108,070.20
TOTAL PROJECT					\$ 2,811,323.80
FOR ESTIMATE					\$ 2,820,000.00

Footnotes:

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- (6) Right-of-way estimated for Whitney Road and Dell Range Only based on GIS and available plat data.

Project #: **3987.16**
 Project Name: **WHITNEY ROAD CORRIDOR PLAN - SUMMARY OF RECOMMEDATION COST**



Description of Area	Estimated Costs					For Estimate
	Construction	Right-of-way	Engineering	Contingency	Total	
Whitney Road at Dell Range Blvd. Intersection (RAB W\Slib Lane)	\$ 1,142,609	\$ 119,700	\$ 114,261	\$ 171,391	\$ 1,547,961	\$ 1,550,000
Dell Range Blvd. to U.S. 30	\$ 1,245,878	\$ 108,070	\$ 124,588	\$ 249,176	\$ 1,727,712	\$ 1,730,000
Sub-total Phase I	\$ 2,388,487	\$ 227,770	\$ 238,849	\$ 420,567	\$ 3,275,673	\$ 3,280,000
Storey Blvd. to Dell Range Blvd.	\$ 2,446,254	\$ -	\$ 244,625	\$ 489,251	\$ 3,180,130	\$ 3,190,000
Whitney Road Totals						\$ 6,470,000