

DOWNTOWN NODE REPLACEMENT

PROJECT NUMBER: IDP00-984

The downtown sidewalk replacement plan as proposed consists of colored concrete (2 different colors) in a patterned design that provides definition for the corners. The improvement project will include installation of rebar in the new sidewalks. The inclusion of rehab should alleviate heaving and settling of the sidewalk areas due to freeze/thaw conditions.

My proposal would be to complete this project over a 6-8 month timeframe. During fiscal year 2000 the reinstallation of the sidewalks would be completed, and then installation of the plant materials in the spring of 2001. During the construction of the sidewalks the necessary conduit for electrical and irrigation systems would be installed for that phase of the project. The entire project would be awarded this year with the project completed in two phases.

The City could bid alternates on colored concrete versus plain concrete while still using the designed pattern to give definition to the corners. Staff also talked about only replacing identified sections of the concrete ribbon located on the perimeter of the sidewalks. Problems identified are breakage that may occur when the sidewalks are demolished and since there is NOT any rebar in this concrete ribbon, the contractor would be required to drill to install rebar to attach the concrete ribbon to the sidewalk section. The thickness of this concrete ribbon may not be adequate for rebar installation.

Electrical needs at the corners for the tree lighting requires further investigation as to the adequacy of the power at the corners, and the costs to bring additional power to those locations. Until this is researched further the electrical upgrade is only an estimate.

BUDGET FOR COMPLETE PROJECT USING COLORED CONCRETE:

Mobilization, bonds, insurance, traffic control remove and replace concrete including concrete ribbon, remove and replace landscape materials, irrigation system, electrical upgrades.	\$ 280,033
8% contingency	22,400
Total Project	\$ 298,433
Professional Services funded	32,752
Total Project-design and construction	\$ 335,185

+ \$40,000 for lights
for trees

BUDGET FOR COMPLETE PROJECT USING PLAIN CONCRETE:

Mobilization, bonds, insurance, traffic control, remove and replace concrete including concrete ribbon, remove and replace landscape materials, irrigation system, electrical upgrades:	\$ 236,408
8% Contingency	18,900
Total Construction Project	\$ 255,308
Professional Services funded	32,752
Total Project-design and construction	\$ 288,060



**Wyss
Associates, Inc.**

**Fax
Transmittal**

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To:	Bonnie Hughes	Date:	July 19, 2000
Firm:	Rapid City Community Development	From:	Michael A. Bender, ASLA
Fax No.:	394-6636	Project:	Rapid City Downtown Streetscape
Re:	Revised Opinion of Probable Cost	Project No.:	00102

Total pages sent including cover page: 3

Bonnie,

The following is revised Opinion of Probable Cost for Rapid City Downtown Node Replacement as requested.

Please call if you have any questions.

Mike

Rapid City Downtown Node Replacement
 Rapid City, South Dakota

Opinion of Probable Cost

Item Description	Qty.	Unit	Unit Price	Extended Cost	Description of Work Involved
Preferred Concept					
Mobilization	1	Lump Sum	\$4,500.00	\$4,500.00	
Bonds and Insurance	1	Lump Sum	\$2,000.00	\$2,000.00	
Traffic Control	1	Lump Sum	\$2,500.00	\$2,500.00	
Clearing and Grubbing of Planting Beds	1	Lump Sum	\$5,100.00	\$5,100.00	Selective clearing of plant material, mulch, and other debris. (4 days for Crew B-63 which includes 4 laborers, 1 light equip. oper, and a skid steer loader)
Demolition of Existing Concrete	16300	SF	\$1.25	\$20,375.00	Includes the removal of existing unreinforced concrete pavement and disposal of rubble off-site.
Base Material	16300	SF	\$0.41 <i>53/88</i>	\$6,683.00	Compact subgrade, place and compact base material (3/4" minus crushed stone - 3" depth)
Colored Concrete Pavement (5" thick)	16300	SF	\$5.00 <i>(48,900)</i>	\$81,500.00	Integral color, includes steel reinforcement, hand-tooled joints, and expansion material.
Sandblast Finish for Conc. Strips	6300	SF	\$1.75	\$11,025.00	Heavy sandblasted finish for slip resistance.
Landscape Plantings	11000	SF	\$2.80	\$30,800.00	Includes site preparation, new plantings, and mulch material (shredded bark).
Irrigation System	11000	SF	\$2.25	\$24,750.00	Complete irrigation system.
			Sub-total Base Bid	\$189,233.00	
			Contingency (12%)	\$22,707.96	Amount set aside for unexpected circumstances which may arrive during construction.
			Total Base Bid	\$211,940.96	

Prepared by:
 Wyss Associates, Inc.
 Rapid City, South Dakota

Rapid City Downtown Node Replacement
Rapid City, South Dakota

Opinion of Probable Cost

Add Alternate

Remove & Replace Concrete Banding 9600 SF \$4.25 \$40,800.00

Includes demolition and replacement of standard flat concrete with steel bar reinf.

Total Add \$40,800.00

Subtotal with Add Alternate \$230,033.00

Contingency (12%) \$27,603.96

Amount set aside for unexpected circumstances which may arrive during construction.

Total Add Alternate Bid \$257,636.96

Electrical Work

Renovation of Electrical Work to Accommodate Lighting Needs 1 Lump Sum \$50,000.00 \$50,000.00

Add to total. Carrying this as an allowance at this point until more investigation is completed.