Rapid City Greenway Trails and

Pedestrian Facilities Project

City of Rapid City, SD

Project No. PR08-6017

Presented by:



1560 Concourse Drive Rapid City, SD 57703

July 13th & 14th, 2010





Project Background



- Two Project Areas
 - Site 1 (West)
 - Pedestrian bridge, natural trail, parking improvements, & restroom facility at Founder's Park
 - Bike path extension from Founders Park to Anamosa Street
 - Site 2 (East)
 - Bike path extension to SDSM&T
 - Bike path connection through Pennington County Fairgrounds

Project Team











\$ 136,000 SDDOT Enhancement Grants

\$ 1,812,278 FHA Funds (earmarked for Greenway Project)

\$ 12,000 Parks and Recreation Department CIP Match (18.05%)

\$ 340,000 2012 Match (18.05%)

\$ 2,300,278 TOTAL Project Funding

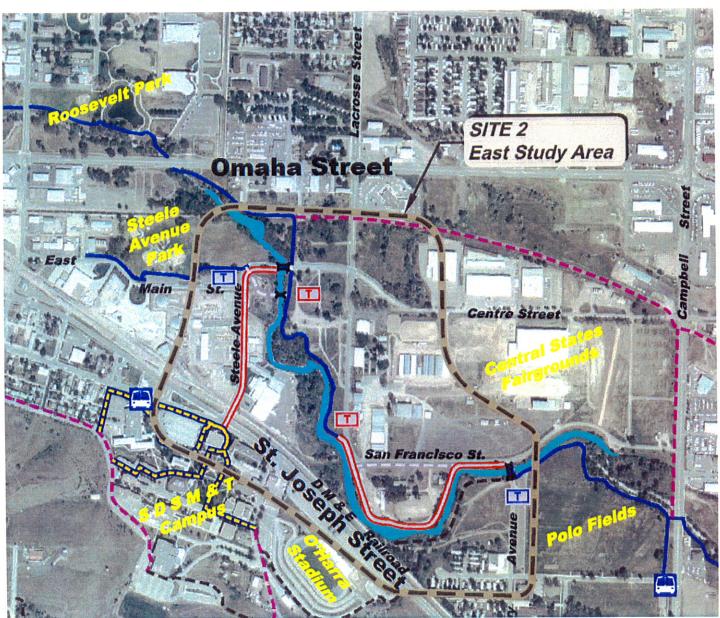












Project Progress to Date



- Data Gathering (Meetings / Research)
 - 40 meetings with over 14 City departments, private groups,
 County and other local agencies, etc.
 - Topographic Survey (CETEC)
 - Traffic Counts / Traffic Study (CETEC / Olsson Associates)
 - Omaha Street / Cross Street Intersection
 - Saint Joseph Street / Steele Avenue Intersection
 - Archeological Survey (Quality Services)
 - Geotechnical Analysis (SDDOT)
 - Preliminary Floodplain Analysis (CETEC)
- Preliminary Design 35%
- Feasibility Report Complete June 10, 2010
- Public Open House Tuesday, July 13, 2010
 (5:00 7:00) @ Community Room, City Hall







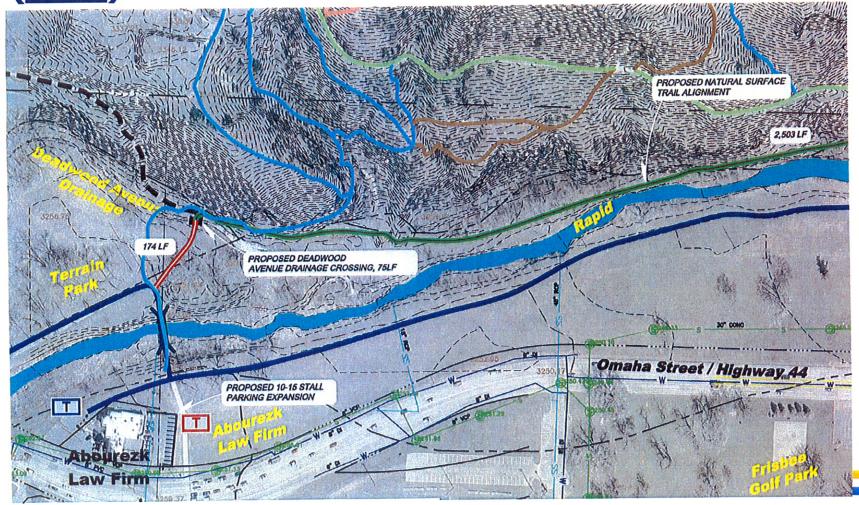






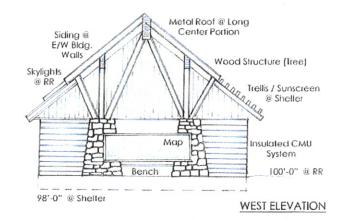
CELEC ENGINEERING SERVICES INC.

Site 1 – Founder's Park Area Overview
 (West)





- Site 1 Founder's Park Area
 - Restroom facility outside of floodway.
 - Pedestrian bridge at Founder's Park with "No-Rise" to base flood elevation.

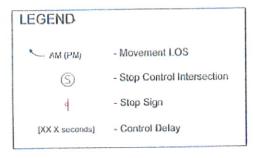


- Lighting where appropriate.
- Improved access to/from Omaha Street is needed.
 - Cross Street / Omaha Street intersection is best alternative.
 - Improved queuing and vehicle stacking.
 - Traffic study summary on next slide.





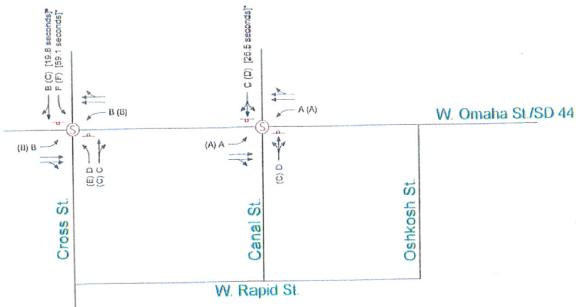
Site 1 – Founder's Park Area

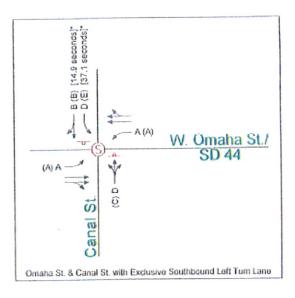


UNSIGNALIZED INTERSECTION LEVEL OF SERVICE CRITERIA

Level of Service	Average Control Delay (sec)
A	<= 10
В	> 10-15
С	> 15-25
D	> 25-35
E	> 35-50
F	> 50

Highway Capacity Manual (HCM 2000)









- Site 1 Founder's Park Area
 - Current parking
 - 90 spaces
 - Peak hourly volumes observed during:
 - Farmer's Market
 - Fat Tire Festival
 - City League Volleyball.
 - Fireworks
 - Special Events
 - Increased parking needed @ Founder's Park
 - (60 spaces)

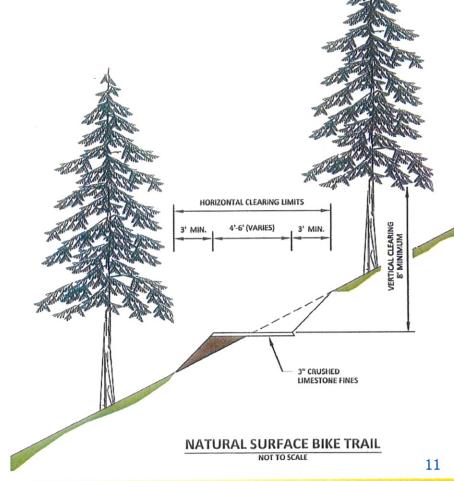
Founder's Park Parking - Summary	2012 - 2015 Vehicles	
Park Users	Peak - HR	
Farmer's Market - Vendors	25	
Farmer's Market - Customers	100	
Fat Tire Festival - Vendors	25	
Fat Tire Festival - Participants	200	
Volleyball Users (General)	12	
Volleyball Users (Leagues)	100	
Kayak Park Users	5	
Cowboy Hill Users	60	
Founder's Park - Tourists	10	
Founder's Park - General Users	30	



Site 1 - Natural Trail - North Rapid Creek

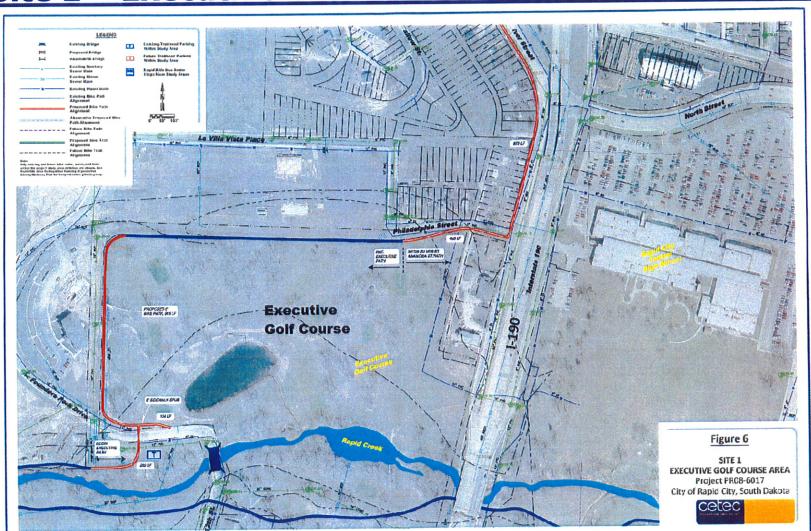
- 5' wide natural trail along north side of Rapid Creek.
- Low water crossing over Deadwood Ave Drainage.





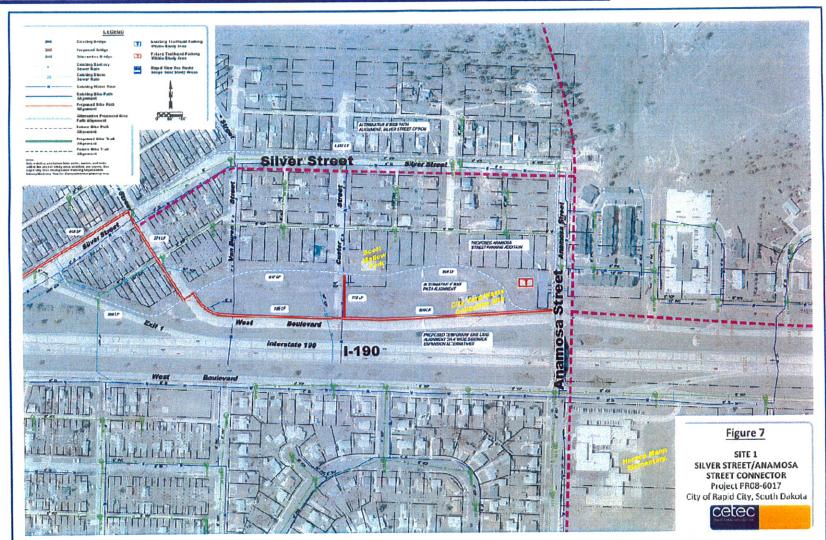


Site 1 – Executive Golf Course Connection Overview





Site 1 – Anamosa Connection Overview

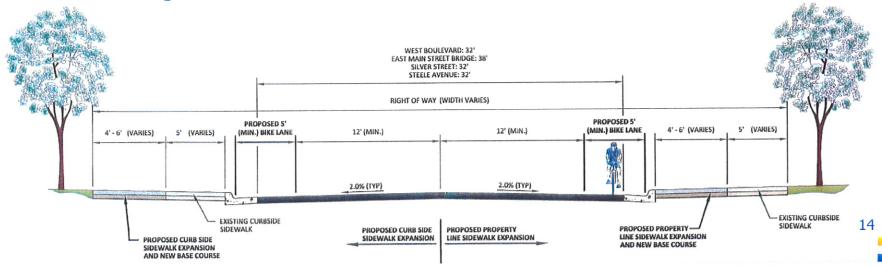




- Site 1 Executive Golf Course / Anamosa Connection
 - Founder's Park through Executive Golf Course - 8' wide concrete bike path.



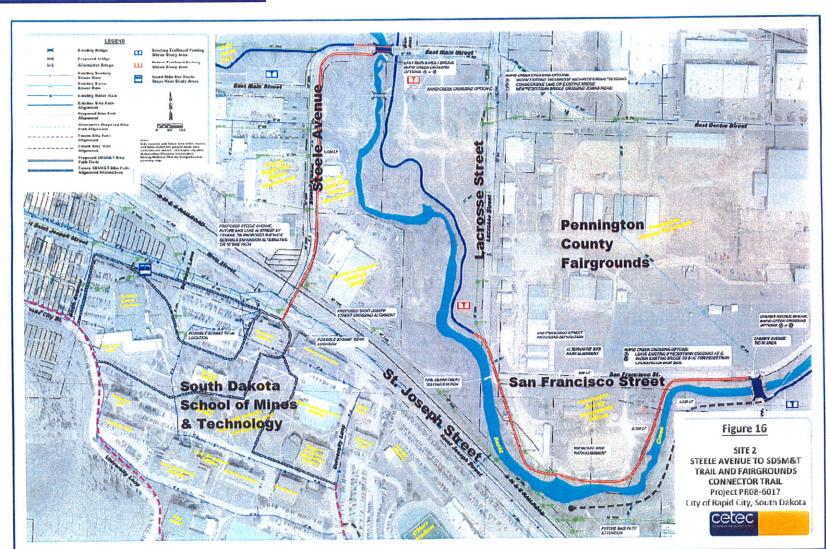
- Executive Golf Course to Anamosa Street combination of curb side sidewalk, bike lanes and an 8' wide bike path.
 - Future connection with Central High School and I-190 with future DOT interchange.







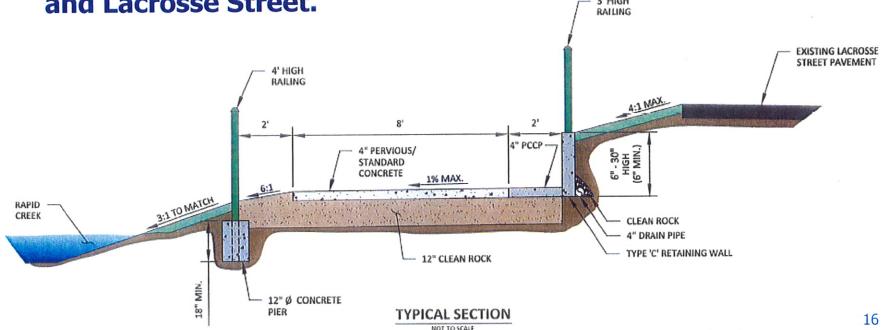
Site 2 - Overview





- Site 2 Recommendations
 - 5' wide bike path extension to SDSM&T.
 - 8' wide bike path through Fairgrounds.
 - Bike lanes or raised crossing on East Main Street Bridge.

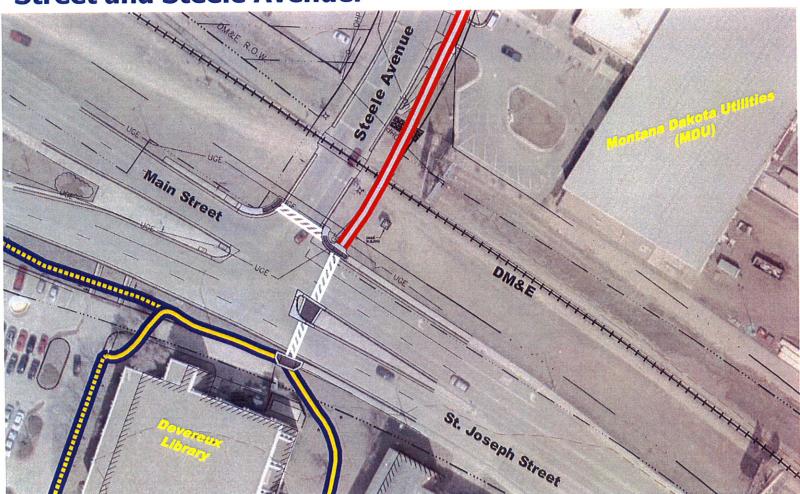
- Special typical section at intersection of San Francisco Street and Lacrosse Street.



Preliminary Design (Feasibility Analysis) Summary Site 2 - Recommendations



 Pedestrian crossing improvement needed at Saint Joseph Street and Steele Avenue.



Preliminary Cost Estimate



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*TOTAL Site 1 Cost Estimate	\$1	,894,134
Executive Golf Course Connection:	\$_	<u>98,789</u>
North Rapid Creek Bike Trail:	\$	69,690
Abourezk Parking Area:	\$	20,002
	Ψ.	
Founder's Park =	\$ 1	,630,913
Founder's Rock=	\$	74,740

Site 2

*TOTAL Site 2 Cost Estimate	\$ 404,246
SDSM&T Connection:	\$ 145 <u>,667</u>
Fairgrounds Connection:	\$ 258,579

TOTAL

TOTAL Cost Estimate	\$2,2	98,380
Project Budget	\$2,3	00,278
Budget Remaining	\$	1,898

Remaining Schedule



Feasibility Study / Preliminary Design

Preliminary Design Report (Feasibility Study)

Public Open House

Preliminary Design Report

June 10, 2010

July 13, 2010

August 2010

Final Design

Final Design Report & 95% Design Submittal

Contract Documents

October 2010

October-November 2010

Bidding

February 2011

Construction

2011 - 2012

*All scheduled tasks are subject to change pending added time for any of the following:

 Floodplain review by SDDOT, FEMA and City of Rapid City; Environmental Issues; Unforeseen Archeological Discoveries; Special Interest Group Concerns; and Weather

cetec **Thank You**