



City of Grand Island

Tuesday, January 25, 2011

Council Session

Item H1

**Approving Referral of the One & Six Year Street Improvement
Plan to the Regional Planning Commission**

Staff Contact: Gary R. Mader, Interim Public Works Director

Council Agenda Memo

From: Gary R. Mader, Interim Public Works Director

Meeting: January 25, 2011

Subject: Approving Referral of the One & Six Year Street Improvement Plan to the Regional Planning Commission

Item #'s: H-1

Presenter(s): Gary R. Mader, Interim Public Works Director
Terry Brown, Interim City Engineer

Background

Attached is staff's recommended One and Six Year Street Improvement Plan (SIP). Adoption of a One and Six Year Street Improvement Plan is required by State law as part of the requirements to receive approximately three million dollars of gas tax funds each year.

The attached proposed One and Six Year Street Improvement Plan will be reviewed by the Regional Planning Commission and come back to the City Council for discussion, modification, and adoption in February. Administration recommends that the draft be referred to the Regional Planning Commission.

Our recommendation for the review of the proposed plan is as follows:

- Tuesday, January 25, 2011 - City Council refers the plan to the Regional Planning Commission
- Wednesday, February 2, 2011 – Regional Planning Commission conducts a Public Hearing and forwards a recommendation to the City Council
- Tuesday, February 8, 2011 – City Council hears a presentation from staff, conducts a Public Hearing, and passes a Resolution adopting the plan
- Prepare and submit the report to the Nebraska Department of Roads by March 1, 2011

The proposed One & Six Year SIP is being presented to council for referral to the Regional Planning Commission based on a 400 Capital Improvement Plan ranking system that was presented at the 2009 city council retreat. The ranking system was updated by a city staff team consisting of the following individuals:

- Interim Public Works Director – Gary Mader
- Interim City Engineer/Manager of Engineering Services – Terry Brown
- Project Manager – Scott Griepenstroh
- Parks Department Director – Steve Paustian
- Regional Planning Director – Chad Nabity

The One & Six Year Street Improvement Plan typically starts with year one (1) for the current construction year, closely matching the projects in the current fiscal year's budget. The projects in year 1 of the plan are considered "certain", with projects in years 2 through 5 being listed for planning purposes and subject to approval by council during the budget process. Future projects for years 2 through 5 and after were scheduled based on council and public input.

Discussion

A few of the 2011 projects that should be discussed include:

Infrastructure Contingency Funds (Emergency)

City Staff believes it is good fiscal management to include funds for emergencies.

Build Drainway from Central Community College to Wood River

The 1978 drainage plan, prepared by McGaughy, Marshall and McMillan, designated a drainage outlet to the Wood River to serve the southwest portion of the City. In 1983, when Stolley Park Road was paved, a temporary connection was made to drain the Brentwood area and some surrounding land. With the large amount of precipitation in recent years, the Stolley Park system has been badly overloaded.

Currently Olsson Associates are working on a design to complete the connection to the Wood River in a similar manner as was designated by the 1978 plan. Construction of this outlet will serve to reduce the dependence on the Stolley Park drain and provide a more positive drainage alignment for the Brentwood area. The project schedule is set for bid letting the summer of 2011, as well as construction.

Moore's Creek Drain – Rogers Well to South of Old Potash

This project will extend Moore's Creek through Old Potash and is scheduled for 2011 construction.

North Front Street & Webb Road Traffic Signal

Plans have been prepared for this traffic signal to be installed in 2011. Funds were budgeted at \$80,000 for this project; however the estimate is closer to \$150,000. With the shortage of funds City staff is working to get this project done "in-house" by the Street Division as the General Contractor, with a project estimate of \$90,000.

Quiet Zone – UPRR Corridor – Oak, Pine, Elm & Walnut

The railroad preliminary engineering interfacing should be done in February 2011. It then typically takes 3-6 months for the construction/maintenance agreement to be negotiated between the City and Union Pacific Railroad Company. Construction of this project is scheduled for 2011 or 2012.

Build Pipes from US Highway 30 to Wasmer Cell

The Plans, Specifications & Estimate (PS&E) package for the project was completed by Kirkham Michael consulting engineers. Kirkham Michael is defining the basin, determining pipe sizes and the possibility of a culvert down Broadwell Avenue. A meeting has been set for February 3, 2011 with the City & Nebraska Department of Roads to discuss how to approach the Federal Highway Administration (FHWA) on their level of participation. There is some water main & environmental conflicts that will need to be resolved. Construction is expected to take place in 2012.

Independence Avenue Ditch – Design

With the Comprehensive Drainage Plan being moved to 2013 City staff is making the recommendation to move this project to 2013 as well. By having both projects in the same year more information will be available to assist in the drainage ditch design for this project.

Comprehensive Drainage Study

City staff is recommending moving this project back to 2013 for several reasons.

1. The City's storm water grant has 2 years remaining to gather storm system field information which would be critical for the study;
2. Utilizing LiDAR data to provide city-wide ½ foot contours by 2013 will greatly help in the identification of drainage within the City; and
3. Will allow City staff time to identify critical areas of concern for the study based on past studies, projects, and observations. Obtaining all the information prior to the study will help provide the City with a more relevant study.

Trail along Moores Creek Drain – State Street to Capital Avenue Connector

If Transportation Enhancement Funds are used for this project construction is scheduled to take place in 2013. City staff would design this project.

Projects that moved up

Husker Hwy (US Hwy 34) from US Hwy 281 to Locust St – 2012 (NDOR project)

Blaine Bridges over Wood River – Design & ROW – 2012

Blaine Bridge Replacement with culverts – 2012

Federal Aid Project Que

Miscellaneous Resurfacing Project (Broadwell Avenue & 1st Street) – 2012 or 2013

Faidley Avenue – North Road east to Irongate Avenue - 2013

Capital Avenue Resurfacing – Webb Road to Broadwell Avenue – 2014

Safety Enhancement Projects – Traffic Signals

Alternatives

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Move to approve
2. Refer the issue to a Committee
3. Postpone the issue to future date
4. Take no action on the issue

Recommendation

City Administration recommends that the Council refer the One and Six Year Street Improvement Plan to the Regional Planning Commission.

Sample Motion


Move to approve referral of the One and Six Year Street Improvement Plan.

1 & 6 YEAR STREET IMPROVEMENT PLAN

Presented by: Gary Mader / Terry Brown

Proposed 1 & 6 Year Street Improvement Plan

 = Railroad Transportation Safety District

 = Highway Safety Improvement Program (90/10)

2011 Construction (Year 1) = \$1,862,000

Budgeted Amount = \$2,689,081

	<u>CITY COST</u>
Construction of NW GI Flood Control Project =	\$400,000
Realign Walnut Ent. @ Custer/15 th St w/ Signal (SRTS) =	\$27,000
Build Pipes from US Hwy 30 to Wasmer Cell =	\$32,000
Build Drainway from CCC to Wood River =	\$350,000
Quiet Zone – UPRR Corridor – Oak, Pine, Elm & Walnut =	\$7,000
Signal @ N Front St & Webb Rd =	\$80,000
PVIP Drainage Project – Phase 1 =	\$127,000
Trail along Moores Creek Drain – State to Capital Connector =	\$12,000
Moores Creek Drain – Rogers Well to South of Old Potash =	\$220,000
Annual Paving Program (Assessment Districts) =	\$532,000
Annual Sidewalk Projects =	\$25,000
Concrete Lining of Drainage Ditches =	\$50,000

Proposed 1 & 6 Year Street Improvement Plan



= Railroad Transportation Safety District



= Highway Safety Improvement Program (90/10)

2012 Construction (Year 2) = \$3,121,000

	<u>CITY COST</u>
Construction of NW GI Flood Control Project =	\$400,000
Husker Hwy (US Hwy 34) from US Hwy 281 to Locust St =	\$100,000 (NDOR)
Blaine St bridges over Wood River =	\$100,000
Mormon Island Trail Bridges =	\$101,000
Realign Walnut Ent @ Custer/15 th St w/ Signal =	\$30,000
Build Pipes from US Hwy 30 to Wasmer Cell =	\$430,000(60/40?)
Quiet Zone – UPRR Corridor – Oak, Pine, Elm & Walnut =	\$450,000
Trail along Moores Creek Drain – State to Capital Connector =	\$70,000
Hwy 30 Concrete Repair (Grant to Claude Rd) =	\$600,000 (NDOR)
Third & Wheeler Downtown Historical Lighting Project =	\$15,000
Concrete Lining of Drainage Ditches =	\$50,000
Annual Sidewalk Projects =	\$25,000
Annual Paving Program (Assessment Districts) =	\$750,000

Proposed 1 & 6 Year Street Improvement Plan



= Railroad Transportation Safety District



= Highway Safety Improvement Program (90/10)

2013 Construction (Year 3) = \$3,147,250

	<u>CITY COST</u>
Construction of NW GI Flood Control Project =	\$400,000
Misc Federal Aid Resurfacing (Broadwell & 1 st St) 20% match =	\$300,000
Quiet Zone – UPRR Corridor – Lincoln, Broadwell & Blaine/Custer =	\$150,000
 Broadwell Ave/UPRR – Environmental Study/Preliminary Engineering =	\$128,000
Independence Ave Ditch – Design =	\$80,000
Trail along Veteran’s Home from Capital & Webb to Eagle Scout Park =	\$120,000
Round-A-Bout @ Capital Ave & North Rd =	\$360,000
 Faidley Ave – North Rd east to Irongate Ave (approx 2,000’) =	\$112,500
Update Moores Creek Drainage Plan =	\$39,000
Integrated Comprehensive Drainage Plan =	\$80,000
Broadwell Ave/UPRR – Final Design & ROW Appraisal =	\$128,000
Concrete Lining of Drainage Ditches =	\$50,000
 Broadwell Ave/UPRR – ROW =	\$200,000
PVIP Drainage Project – Phase 2 =	\$99,750
 Signal @ US Hwy 30 (2 nd St) & Lincoln Ave =	\$55,000
Independence – Construct Culverts & Fill in West Ditch =	\$70,000
 Annual Sidewalk Projects =	\$25,000
Annual Paving Program (Assessment Districts) =	\$750,000

Tied together as one project



Proposed 1 & 6 Year Street Improvement Plan



= Railroad Transportation Safety District



= Highway Safety Improvement Program (90/10)

2014 Construction (Year 4) = \$1,585,000

	<u>CITY COST</u>
Construction of NW GI Flood Control Project =	\$400,000
Trail along Locust from I-80 to Wood River Floodway =	\$120,000
Capital Ave – Webb Rd to Broadwell Ave =	\$240,000 (20% match)
Concrete Lining of Drainage Ditches =	\$50,000
US 30 Resurfacing – West City Limits to HWY 281 =	\$0 (NDOR Funded)
Annual Sidewalk Projects =	\$25,000
Annual Paving Program (Assessment Districts) =	\$750,000

Proposed 1 & 6 Year Street Improvement Plan




= Railroad Transportation Safety District



= Highway Safety Improvement Program (90/10)

2015 Construction (Year 5) = \$1,745,000

CITY COST

Construction of NW GI Flood Control Project =	\$400,000
Concrete Lining of Drainage Ditches =	\$50,000
Trail along I-80 from Mormon Island to Locust =	\$120,000
Annual Sidewalk Projects =	\$25,000
Lighting on US Hwy 281 from Stolley Park Rd to Old Potash =	\$250,000
 Signal @ US Hwy 34/281 and Wildwood Rd =	\$150,000
Annual Paving Program (Assessment Districts) =	\$750,000

Proposed 1 & 6 Year Street Improvement Plan



= Railroad Transportation Safety District



= Highway Safety Improvement Program (90/10)

2016 & After Construction (Year 6 & After) = \$25,416,000

CITY COST

Trail – along Locust from US Hwy 34 to Stagecoach =	\$120,000
US 30 Widening – West City Limits to Hwy 281 (2018) =	\$9,000,000 (NDOR 50/50)
Broadwell Ave/UPRR – Construction =	\$2,160,000
Concrete Lining of Drainage Ditches =	\$50,000
Annual Sidewalk Projects =	\$25,000
Stolley – Locust to Fonner/HEC/Fair Entrance =	\$1,200,000
Stolley – Fonner/HEC/Fair Entrance to Stuhr Road =	\$920,000
Husker Hwy West of US Hwy 34/281 Intersection =	\$1,200,000
Signal @ US Hwy 34/281 and Rae Road =	\$67,000
Misc Safety Projects – TBD =	\$150,000
North Rd over UPRR =	\$1,520,000
Stolley Park Rd & North Rd Intersection =	\$146,000
Left Turn Lane on 13 th @ Redwood/Mansfield =	\$62,000
State/Diers Intersection Improvements =	\$390,000
Left Turn Lane on Husker Hwy @ HLHS =	\$62,000
Shady Bend Road @ UPRR East Bypass =	\$3,200,000

Proposed 1 & 6 Year Street Improvement Plan



= Railroad Transportation Safety District



= Highway Safety Improvement Program (90/10)

2016 & After Construction (Year 6 & After) (cont.)

	<u>CITY COST</u>
Left Turn Lane – North Rd @ NWHS =	\$56,000
Misc Signals – TBD =	\$112,000
Annual Paving Program (Assessment Districts) =	\$750,000
North Rd & 13 th St =	\$300,000
North Rd & Old Potash =	\$300,000
Realign Barr Ent @ Stolley/Adams w/ Signal =	\$360,000
Stolley Park Rd - Locust St. to Webb Rd Safety Improvement	\$100,000
State Street – Webb Rd to Broadwell Ave Safety Improvement	\$150,000
Misc Major Drainage Development =	\$250,000
Swift Rd – WWTP to Stuhr Rd =	\$450,000
Resurface Wildwood Rd from US Hwy 281 to Locust St =	\$876,000
Moore's Creek – Old Potash to Edna =	\$150,000
3 rd St Widening – Adams to Eddy =	\$90,000
Blaine Street – Schimmer Dr to Wildwood Dr	\$1,000,000
Capital Ave – Broadwell Ave to St. Paul Rd =	\$200,000