



# **City of Grand Island**

**Tuesday, July 12, 2022**

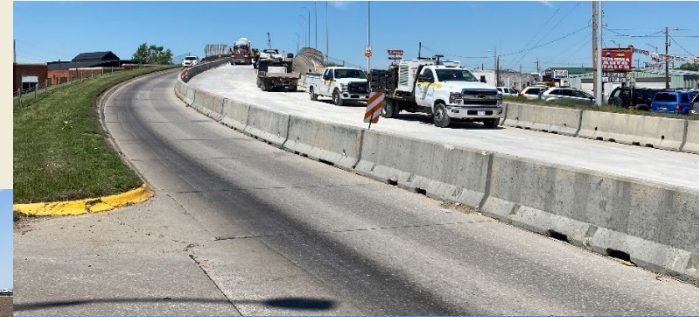
**Study Session**

## **Item C5**

### **One & Six Year Street Improvement Plan**

**Staff Contact: Keith Kurz PE, Interim Public Works Director**

### Capital Projects 2022/2023



Keith Kurz, PE  
Interim City Engineer/Public Works Director

# 2022 Projects

- Annual Curb Ramp Project No. 2022-CR-1
- Webb Rd Paving Assessments
- Pavement Condition Assessment
- Five Points Intersection Improvements
- Old Potash Hwy; North Rd to Webb Rd
- Highway 30 Realignment
- Broadwell/UPRR Grade Separation
- North Rd; 13<sup>th</sup> St to Hwy 2
- North Rd; Old Potash Hwy to 13<sup>th</sup> St
- North Rd; Hwy 30 to Old Potash Hwy
- US Hwy 30 Bridges
- Custer Ave Rehabilitation
- Eddy St Underpass Rehabilitation
- Capital Ave; Moores Creek to North Rd
- Hwy 2: Cairo to Grand Island
- Locust St; 2<sup>nd</sup> St to Fonner Park Rd
- Claude Rd Extension
- GI North; Hwy 281 (NDOT)
- Bond Payment
- NW Flood Control Project
- Moores Creek Drain Ext- Water Tower Culverts
- Moores Creek Detention Cell- OPH/North
- N 80 Wetland Delineation
- Sidewalk Cost Share Program
- PVIP Drainage Dist No. 2020-1
- JBS Trail Culvert
- Brookline Drainage/Henry St Drainage

# 2022 Capital Improvement Projects

## Funded by Gas Tax

<i>Project</i>	<i>2022 Budget</i>	<i>2022 Forecast</i>
Annual Curb Ramp Project (2021-CR-1)	\$ 165,000	\$ 150,000
Webb Rd Paving Assessments	\$ 120,000	\$ 80,500
Pavement Condition	\$ 165,000	\$ 145,000
Five Pts Intersection Improvements	\$ 50,000	\$ 45,000
Old Potash Hwy; North Rd to Webb Rd	\$ 2,350,000	\$ 2,800,000
US 30 Realignment	\$ -	\$ 1,000
Broadwell /UPRR Grade Separation	\$ 70,000	\$ 47,000
North Rd; 13th St to Hwy 2	\$ 2,000,000	\$ 1,721,000
North Rd; Old Potash Hwy to 13th St	\$ 3,525,000	\$ 3,012,000
US Hwy 30 Bridges	\$ 230,000	\$ 215,000
North Rd; Old Potash to Hwy 30	\$ 25,000	\$ 1,400
Custer Ave Rehabilitation	\$ 3,005,000	\$ 2,580,000
Eddy St Underpass Rehabilitation	\$ 1,300,000	\$ 1,265,000
Capital Ave; Moores Creek to North Rd	\$ 2,235,000	\$ 1,733,308
Hwy 2; Cairo to Grand Island	\$ 1,100,000	\$ 1,800,000
Locust St; 2nd St to Fonner Park Rd	\$ 450,000	\$ 311,000
Claude Rd ROW	\$ 750,000	\$ 750,000
GI North- 281	\$ -	\$ 124,000
Bond Payment	\$ 1,708,850	\$ 1,710,000
Unassigned	\$ 100,000	\$ -
	<b>\$ 19,348,850</b>	<b>\$ 18,491,208</b>

## 2022 Capital Improvement Projects Funded by General Fund

<i>Project</i>	<i>2022 Budget</i>	<i>2022 Forecast</i>
NW Flood Control Project	\$ 35,000	\$ 35,000
Moore's Creek Drain Ext- Water Tower Culverts	\$ 325,000	\$ 378,300
Moore's Creek Detention Cell- OPH/North Rd	\$ 325,000	\$ 254,000
N 80 Wetland Delineation	\$ 200,000	\$ 6,700
Moore's Creek Drainway	\$ -	\$ 150
Sidewalk Cost Share Program	\$ 25,000	\$ 25,000
PVIP Drainage Dist No. 2020-1	\$ 250,000	\$ 35,000
JBS Trail Culvert	\$ -	\$ 232,700
Brookline/Henry St Drainage	\$ 450,000	\$ 415,400
	<b>\$ 1,610,000</b>	<b>\$ 1,382,250</b>

## Summary of Capital Improvement Projects

<i><b>Project</b></i>	<i><b>2022 Budget</b></i>	<i><b>2022 Forecast</b></i>
Funded by Gas Tax	\$ 19,348,850	\$ 18,491,208
Funded by General Fund	\$ 1,610,000	\$ 1,382,250
	<b>\$ 20,958,850</b>	<b>\$ 19,873,458</b>

# Proposed Capital Projects for 2022/2023

- Annual Curb Ramp Project No. 2023-CR-1
- Webb Rd Paving Assessments
- Five Points Intersection Improvements
- Broadwell/ UPRR Grade Separation
- North Rd; Old Potash Hwy to 13<sup>th</sup> St
- North Rd; US Hwy 30 to Old Potash Hwy
- Custer Ave; Old Potash Hwy to Forrest St
- Eddy St Underpass Rehabilitation
- Locust St; 2<sup>nd</sup> St to Fonner Park Rd
- Veterans Legacy
- Claude Road Extension
- Bond Payment
- Northwest Flood Control
- N 80 Wetland Delineation
- Sidewalk Cost Share Program
- PVIP Drainage District No. 2020-1
- Citywide Drainage
- Street/Fleet New Facility
- Brookline/Henry Drainage Improvements



# Annual Curb Ramp Project No. 2023-CR-1

## \$165,000

Required by the Federal American Disabilities Act (ADA) Regulations –installation program follows the previous year’s asphalt program and other priority corridors. Additional locations are added as funds allow.





# Five Points Intersection Improvements

## \$586,900 / \$3,420,000



- Public right-of-way has been acquired
- Finishing design
- Letting scheduled Fall 2022/Construction Spring 2023 (subject to change)

# **Broadwell/UPRR Grade Separation**

## **\$100,000/ \$28,350,000**



- 🌊 Address solutions to vehicle traffic conflicts with railroad crossing
- 🌊 Anticipate 10 year process to acquire funds (began FY 2019)
- 🌊 Finish PEL- Planning and Environmental Linkages Study Fall 2022
- 🌊 Seeking funding through NDOT
  - 🌊 Aiming to get a Program Agreement to begin Environmental & Engineering in FY 23 (80/20 match)
- 🌊 Possible grants available- Infrastructure for Rebuilding America (INFRA) and Rebuilding American Infrastructure with Sustainability and Equity (RAISE)



UNION PACIFIC RAILROAD & BRODWELL AVENUE GRADE SEPARATION FEASIBILITY STUDY

2018 - 2019 CAPITAL IMPROVEMENT PROJECTS



# **North Road; Old Potash Hwy to 13<sup>th</sup> Street**

## **\$500,000/ \$4,595,296**

- Improvements from the intersection of 13<sup>th</sup> Street and North Road to the intersection of Old Potash Highway and North Road
- Concrete curb and gutter section with sidewalk, traffic control, drainage and other associated improvements
- Open to traffic Fall 2022/ Final Completion Spring 2023



# North Road; US Hwy 30 to Old Potash Hwy

## \$2,650,000/ \$3,014,768

- Improvements from the intersection of Old Potash Highway and North Road to the intersection of Highway 30 and North Road
- Concrete curb and gutter section with sidewalk, traffic control, drainage and other associated improvements
- Last section of North Road; Highway 2 to US Highway 30



# Custer Avenue; Old Potash Hwy to Forrest St

## \$1,700,000/ \$4,280,000

- 🌊 Full depth removal of the driving lanes
- 🌊 Project will be constructed in 3 phases
  - 🌊 Phase I- Old Potash Hwy to Faidley Ave
  - 🌊 Phase II- Faidley Ave to 13<sup>th</sup> St
  - 🌊 Phase III- 13<sup>th</sup> St to Forrest St (design started)
  - 🌊 Construction 2023





# Eddy Street Underpass Rehabilitation

## \$300,000/ \$1,500,000

- Preventative concrete patching, wall surface treatments, bird spikes and other items will be addressed
- Construction 2022 into 2023
  - Final work and restoration FY2023



# **Locust St; 2<sup>nd</sup> St to Fonner Park Rd**

## **\$450,000 / \$10,761,000**

- 🌊 Full depth replacement of roadway with concrete curb and gutter
- 🌊 Remedy alignment issues at intersections along corridor
- 🌊 Drainage improvements
- 🌊 Final Engineering/ROW FY 2023
- 🌊 Construction FY 2024/2025



# Veterans Legacy







## \$150,000/ \$1,350,000

- 🌐 Paving and drainage development north of Capital Avenue, East of Webb Road
- 🌐 Design work to take place FY2023
- 🌐 Dependent upon funding from other sources
- 🌐 Construction TBD



# **Claude Road Extension**

## **\$2,400,000/ \$2,400,000**

-  North of Faidley Avenue to State Street
  -  Control access points
  -  Improve traffic performance and safety
-  Relieve congestion along Diers Avenue
-  Finish design
-  Construction of roadway between Diers Avenue and Claude Road (south of State St) FY 2023

# **Northwest Flood Control**

## **\$20,000/ \$7,800,000**

-  Completion anticipated December 2022
-  Yearly maintenance costs upon project completion



# N 80 Wetland Delineation

## \$210,000/ \$2,000,000

- City owned wetland bank
- Anticipated this will double as a detention cell to allow additional water storage on the north end of town
- Improve drainage depths in Moores Creek within the City
- Continue Engineering/Permitting
- Currently in USACE public notice period





# Sidewalk Cost Share Program

## \$25,000

- Per Ordinance No. 9764
- Repair displaced, broken, and/or ADA deficient sidewalks in the public ROW
- Construct segments of sidewalk to fill in the network along streets within City limits
- 7 applications received in FY22, with \$12,375.66 paid out (including engineering services)



# **PVIP Drainage District No. 2020-1**

## **\$250,000/ \$600,000**

- Design and construction of drainage outlet in the Platte Valley Industrial Park area
- City portion of a partnership with Hall County, CPNRD & GIAEDC
- City cost will be recouped by assessment district



## **Citywide Drainage**

### **\$250,000**

- Use data collected over past years to improve drainage in various areas of the City
- Develop hydraulic computer models to analyze performance of storm sewers
- Identify weaknesses or improvements that will increase storm sewer capacity and plan future work
- Pilot model area that could lead to overall City model
- Small projects may be built if budget allows

# Street/Fleet Facility Study

## \$150,000

- Investigate current facility use and study feasibility of new facility
- Current facility owned by UPRR
  - Lease expires October 2023, with yearly renewal thereafter





# **Brookline Drive Drainage Improvements**

## **South Street/Henry Street Drainage Improvements**

### **\$50,000 / \$465,400**

- 🌊 Brookline Drive- improve drainage along Brookline Drive, east of South Locust St
- 🌊 South Street/Henry Street- Improve intersection drainage to stop roadway washout
- 🌊 Completion of project from FY 2022



# 2023 Capital Improvement Projects Funded with Gas Tax Money

Annual Curb Ramp Project (2023-CR-1)	\$ 165,000
Webb Rd Paving Assessments	\$ 80,500
Five Points Intersection Improvements	\$ 586,900
Broadwell /UPRR Grade Separation	\$ 100,000
North Rd; Old Potash Hwy to 13th St	\$ 500,000
North Rd; US Hwy 30 to Old Potash Hwy	\$ 2,650,000
Custer Ave; Old Potash Hwy to Forrest St	\$ 1,700,000
Eddy St Underpass Rehab	\$ 300,000
Locust St; 2nd St to Fonner Park Rd	\$ 450,000
Veterans Legacy (contingent on other funding)	\$ 150,000
Claude Road Extension	\$ 2,400,000
Bond Payment	\$ 1,708,850
	\$ 10,791,250



## 2023 Capital Improvement Projects Funded by General Fund

NW Flood Control Project	\$	20,000
N Moores Creek 80 Wetland Delineation	\$	210,000
Sidewalk Cost Share Program	\$	25,000
PVIP Drainage District No. 2020-1	\$	250,000
Citywide Drainage	\$	250,000
Street/Fleet Facility Study	\$	150,000
Brookline/Henry St Drainage	\$	50,000
	\$	955,000

## 2023 Capital Improvement Budget Summary

<i><b>Project</b></i>	<i><b>2023 Budget</b></i>
Funded by Gas Tax & Sales Tax	\$ 10,791,250
Funded by Sales Tax	\$ 955,000
	<b>\$ 11,746,250</b>

- *\$165,000 of capital dollars is mandated (ADA Curb Ramps)*
- *\$100,000 of capital dollars is funding Federal Aid projects*
- *\$586,900 of capital dollars is funding NDOT Safety projects*

## 2023 Funding Sources- 210 Fund

Projected 2022 Ending Cash Balance	\$ 3,771,411
State Gas Tax Fund	\$ 6,630,227
NDOT Buy Backs	\$ 1,040,000
1/2 Cent Sales Tax	\$ 6,825,550
Other Funding Sources (Veterans Legacy)	\$ 150,000
Other Revenue	\$ 2,622,244
Bond	\$ -
Total Available Funding	\$ 21,039,432
210 Fund Capital Projects	\$ 11,416,250
210 Streets Expenses	\$ 5,727,767
210 Streets Non-Capital Projects	\$ 1,819,800
Total Expenses	\$ 18,963,817
<b>Ending Cash Balance in 210 Fund</b>	<b>\$ 2,075,615</b>

# 2023 Future Project Expenses

<i>Project</i>	<i>2023</i>	<i>2024</i>	<i>2025</i>	<i>2026</i>	<i>2027</i>	<i>2028</i>
Annual Handicap Ramp	\$ 165,000	\$ 169,950	\$ 175,000	\$ 180,000	\$ 185,700	\$ 191,400
Webb Rd Paving Assessments	\$ 80,500	\$ 80,500	\$ 80,500	\$ -	\$ -	\$ -
Five Points Intersection Improvements	\$ 586,900	\$ -	\$ -	\$ -	\$ -	\$ -
Hwy 30 Realignment	\$ -	\$ -	\$ 892,566	\$ -	\$ -	\$ -
Broadwell /UPRR Grade Separation	\$ 100,000	\$ 720,000	\$ 420,000	\$ 933,000	\$ 467,000	\$ 18,720,000
North Rd; Old Potash Hwy to 13th St	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -
North Rd; Old Potash Hwy to Hwy 30	\$ 2,650,000	\$ -	\$ -	\$ -	\$ -	\$ -
Custer Ave; Old Potash Hwy to Forrest St	\$ 1,700,000	\$ -	\$ -	\$ -	\$ -	\$ -
Eddy St Underpass Rehab	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -
Locust St; 2nd St to Fonner Park R	\$ 450,000	\$ 5,000,000	\$ 5,000,000	\$ -	\$ -	\$ -
Veterans Legacy (contingent on other funding)	\$ 150,000	\$ 1,200,000	\$ -	\$ -	\$ -	\$ -
Claude Rd; State St/Diers Ave to Claude Rd	\$ 2,400,000	\$ -	\$ -	\$ -	\$ -	\$ -
Bond Payment	\$ 1,708,850	\$ 1,763,150	\$ 1,759,350	\$ 1,758,450	\$ 1,760,250	\$ 1,762,450
NW Flood Control Project	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ -
N Moores Creek 80 Wetland Detention	\$ 210,000	\$ 1,400,000	\$ 350,000	\$ -	\$ -	\$ -
Sidewalk Cost Share Program	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
PVIP Drainage District No. 2020-1	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -
Citywide Drainage	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Street/Fleet Facility Study	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -
Brookline/Henry Drainage Improvements	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -
	<b>\$ 11,746,250</b>	<b>\$ 10,608,600</b>	<b>\$ 8,952,416</b>	<b>\$ 3,146,450</b>	<b>\$ 2,687,950</b>	<b>\$ 20,948,850</b>