



Board of Public Works  
Meeting  
March 10, 2022  
5:30pm

**NOTICE**

There will be a Board of Public Works meeting on Thursday, March 10, 2022 at 5:30 in the Common Council Chambers at the St. Francis Civic Center located at 3400 E. Howard Avenue.

**BOARD OF PUBLIC WORKS AGENDA**

1. Call to Order
2. Minutes  
February 10, 2022
3. Correspondence with Possible Action  
Letter from WisDOT Re: 2022 Connecting Highway Pavement Treatment Opportunities
4. Discussion with Possible Action  
Amendment to 5 Year Capital Road Plan
5. Engineer's Report
6. Unfinished Business
7. Adjourn.

**PUBLIC NOTICE**

Upon reasonable notice, a good faith effort will be made to accommodate the needs of individuals to participate in public meetings, which have a qualifying disability under the Americans with Disabilities Act. Requests should be made as far in advance as possible, preferably a minimum of 48 hours. For additional information or to request this service, contact the St. Francis City Clerk at 481-2300.

**NOTE:** There is a potential that a quorum of the Common Council and/or any Committee, Commission or Board may be present.

**MINUTES OF THE BOARD OF PUBLIC WORKS  
MEETING HELD THURSDAY, FEBRUARY 10, 2022, 5:30PM**

Present: Alderman Shawn Feirer, Alderwoman Sarah Calderon, Alderwoman Debbie Fliss, Citizen Members Richard Adamczewski, Christine Hancock and Sandy Welvang.

Excused: Rick Grubanowitch.

Also present: City Engineer/Director of Public Works Melinda Dejewski, Gene Kroll.

**1. Call Meeting to Order**

Alderman Feirer called the meeting to order at 5:30pm.

**2. Minutes**

A motion was made by Alderwoman Fliss, seconded by Board Member Adamczewski to approve the minutes of the October 14, 2021 meeting. Motion carried.

**3. Correspondence**

**Letter dated November 30, 2021 from Residents of Sacred Heart Senior Apartments Re: Noise Barrage Along Kinnickinnic From Howard Through Oklahoma Avenues.**

A motion was made by Alderwoman Fliss, seconded by Board Member Adamczewski to place the letter on file for discussion. Motion carried.

There was general discussion regarding traffic noises and how they could be minimized. The Board directed the City Engineer to work with the Police Chief to draft a letter to the residents and bring it back to the Board at the next meeting.

**4. Discussion and Possible Action**

**A. Request to Utilize Unimproved E. Betz Avenue Right-of-way for Private Driveway**

City Engineer Dejewski stated that she and the City Attorney had drafted the agreement. She did send it to Mr. Kroll the day of the meeting. She would recommend that the Board recommend to the Common Council approval of the agreement contingent upon Mr. Kroll also approving the agreement. A motion was made by Alderwoman Fliss, seconded by Board Member Adamczewski to recommend to the Common Council to approve the Private Use and Hold Harmless Agreement to allow Mr. and Mrs. Kroll to construct a private driveway, garage apron, concrete approach and sidewalk in the unimproved right-of-way of E. Betz Avenue contingent upon Mr. and Mrs. Kroll approving the agreement. Motion carried.

**B. City Municipal Garage Site Study Request for Proposals**

City Engineer Dejewski reviewed the proposals. The RFP was sent to 6 firms – 3 engineering firms and 3 architectural firms. 2 firms responded – Keller which is an architectural firm and Graef which is an engineering firm. Both proposals are provide the requested information and both firms are very capable of completing the study. There is a large cost difference. In reading the proposals, it appears to the Engineering Department that Keller will provide the City with the study they have requested. Graef appears to be anticipating what the City will need rather than providing what has been requested due to their familiarity with the City and having done other municipal garages in the past year or 2. The Board asked if the price could be revised since there is a large benefit from working with a firm that is familiar with the City and how it operates. City Engineer Dejewski stated that since this is a quote, she could reach out to Graef and request them to review the proposal to see if they could revise the scope to be what the City requested. A motion was made by Alderwoman Fliss, seconded by Board Member Adamczewski to award to Graef contingent upon the cost of the study being reduced to \$10,000 and if not, to award to Keller for \$7900. Motion carried.

**C. Traffic Control at Intersection of E. Howard Avenue and S. Kinnickinnic Avenue**

City Engineer Dejewski stated that there are no dedicated left turn lights in this intersection. She was not with the City when the intersection was constructed so she does not know the reasons for not installing them at that time. She would speculate that the traffic volume did not warrant it at the time. Alderman Feirer stated that with the City owning 3 of the corners and actively marketing them, it would be better to wait until development is proposed for the corners so that the

additional improvements beyond the signals could be made at one time and not have to be redone in the future.

#### **4. Engineer's Report**

City Engineer Dejewski reviewed the report. A motion was made by Alderwoman Fliss, seconded by Board Member Adamczewski to accept and place on file. Motion carried.

#### **5. Unfinished Business**

##### **Vacation and Deletion Request – E. Betz Avenue**

The action was taken earlier on the agenda. This item is to be removed from unfinished business.

#### **6. Adjourn**

A motion was made by Board Member Adamczewski, seconded by Board Member Calderon to adjourn. Motion carried.  
Time 6:00p.m.

**WisDOT DTSD**  
Southeast Regional Office  
141 NW Barstow St., Suite 218  
P.O. Box 798  
Waukesha, WI 53187-0798

**Governor Tony Evers**  
**Secretary Craig Thompson**  
[wisconsindot.gov](http://wisconsindot.gov)  
Telephone: (262) 548-5903  
FAX: (262) 548-5662



February 14, 2022

Mr. Mark Johnsrud  
City of St Francis  
City Administrator  
3400 E. Howard Avenue  
St. Francis, WI 53235  
[Mark.Johnsrud@stfranwi.org](mailto:Mark.Johnsrud@stfranwi.org)

Subject: 2022 Connecting Highway Pavement Treatment Opportunities

Mr. Johnsrud,

Per WisDOT's preliminary evaluation, the following Connecting Highway(s) CH(s) qualify for a WisDOT funded improvement between 2027 and 2030.

- **32-4: WIS 32 (Howard Avenue to Morgan Avenue)**

To be scheduled in the WisDOT program, projects need to follow federal/state funding requirements and meet asset management criteria. Qualifying improvements are typically funded in the following way:

1. Design – 75%(WisDOT) / 25%(Local cost share)
2. Real Estate - Local purchase / WisDOT reimbursement\*
3. Construction:
  - a. Travel Lanes - 100% WisDOT funded
  - b. Parking or Municipal maintenance features/enhancements - 100% Local
  - c. Other items included through the scoping phase (i.e. sidewalk, lighting, etc.)\*

\*May be WisDOT/local cost share or 100% local cost depending on justification for inclusion.

If you are interested in participating **please respond by March 14, 2022** and a meeting will be scheduled to discuss further.

For reference please find attached the "Eligible Connecting Highway Limit Map" and the "Life Cycle of a Transportation Project". Additionally, a map of all CH's within your municipality can be found at this [link](#).

We look forward to collaborating with you. Please call or email with any questions or concerns.

Respectfully yours,

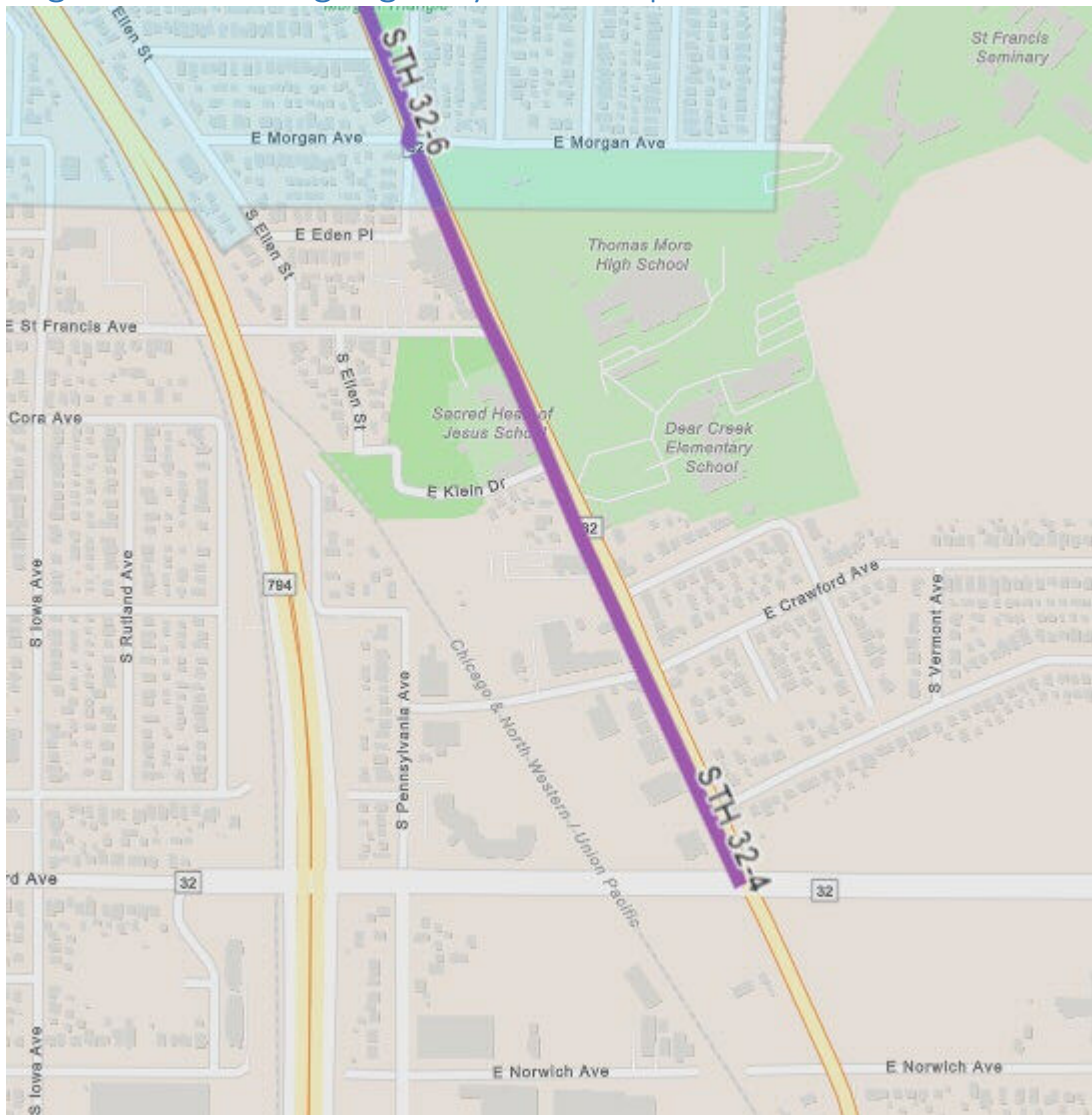


Cynthia R. Flower, P.E.  
**SE Region Program Manager**  
**Wisconsin Department of Transportation**  
141 N.W. Barstow Street  
P.O. BOX 798  
Waukesha, WI 53187-0798  
New PH: (262) 548-5949  
e-mail: [cynthia.flower@dot.wi.gov](mailto:cynthia.flower@dot.wi.gov)

Cc: Tony Barth, WisDOT SER Planning Chief  
Hans Higdon, WisDOT SER Planning Supervisor

Attachments:  
Eligible Connecting Highway Limit Map  
Life Cycle of a Transportation Project

# Eligible Connecting Highway Limit Map



# Life Cycle of a Transportation Project

## PROJECT INITIATION

*What factors initiate a project?*

- Emergencies and safety concerns
- Public & stakeholder input
- Pavement and bridge condition
- System maintenance and operations needs

## MAINTENANCE

- Crack filling and sealing
- Minor alterations
- Snow removal and seasonal maintenance
- Monitoring roadway operations & safety

## PROJECT COMPLETION

- Contract closeout
- Community celebration or ribbon-cutting
- Roadway open to regular traffic

## CONSTRUCTION

- Hire contractors (project letting)
- Pre-construction public meeting & on-going communication
- Construct improvement projects

## PLANNING

- Develop options
- Collect feedback from the public & stakeholders
- Complete planning studies & gather and analyze data

## PROJECTS ARE SUBJECT TO CHANGE:

WisDOT is constantly working to maximize the use of tax payer dollars to deliver the most safe and efficient transportation system possible. Sometimes, that means changing project timelines and scopes. Factors that can change a project's life cycle trajectory include funding constraints, unforeseen environmental circumstances and changes to other projects.

Understanding the different phases of a transportation project can help you know what to expect. It is important to stay involved as the project develops to prepare accordingly.

## DESIGN

- Refine options and develop design
- Collect and incorporate input from public meetings
- Finalize detailed project plans including staging and detours



**YEARS 2022-2026**  
**TO BE CONSTRUCTED DURING THIS TIME PERIOD IF FEDERAL/STATE FUNDING IS OBTAINED**

ROAD	RATING	TYPE OF TREATMENT	PROJECT LENGTH-FT.	CONSTRUCTION ESTIMATE	DESIGN ESTIMATE	INSPECTION ESTIMATE	TENTATIVE CONSTRUCTION YEAR
S. Kinnickinnic Ave from E. Howard Ave to E. Lunham Ave	5	resurface	3010	\$1,000,000.00	\$40,000.00	\$50,000.00	2023
E. Bolivar Ave from S. Pennsylvania Ave to S. Nicholson Ave	3	resurface	1955	\$1,000,000.00	\$30,000.00	\$50,000.00	2023
S. Pennsylvania Ave from S. Whitnall Ave to E. Norwich Ave	3/4	resurface/reconstruct	4300	\$2,500,000.00	\$85,000.00	\$100,000.00	2024
S. Nicholson Ave from E. Denton Ave to City Limits	4/5	reconstruct	3330	\$2,000,000.00	\$80,000.00	\$100,000.00	2024
E. Denton Ave from S. Nicholson Ave to S. Kinnickinnic Ave	4	reconstruct	160	\$100,000.00	\$10,000.00	\$25,000.00	2025
S. Lake Drive from point north of S. Packard Ave to City Limits	5	construct	3590	\$3,000,000.00	\$125,000.00	\$175,000.00	2026
E. Bolivar Ave from S. Pennsylvania Ave to S. Clement Ave (not bridge)	3-6	reconstruct	3500	\$2,200,000.00	\$85,000.00	\$100,000.00	2026
<b>TOTAL RECOMMENDED BUDGET ESTIMATE</b>				<b>\$11,800,000.00</b>			

**YEAR - 2022**

ROAD	RATING	TYPE OF TREATMENT	PROJECT LENGTH-FT.	CONSTRUCTION ESTIMATE	DESIGN ESTIMATE	INSPECTION ESTIMATE
St. Francis Ave from RR Tracks to Kinnickinnic - LRIP Grant Project	4	resurface/reconstruct	800	\$400,000.00	completed in 2019	in-house
Watermain Trench Repair Program	NA	repair/reimbursement	NA	\$60,000.00	in-house	in-house
<b>TOTAL RECOMMENDED BUDGET ESTIMATE</b>				<b>\$460,000.00</b>		
				<b>less reimbursement/grant</b>		
				<b>\$25,000.00</b>		
				<b>\$435,000.00</b>		

**YEAR - 2023**

ROAD	RATING	TYPE OF TREATMENT	PROJECT LENGTH	CONSTRUCTION ESTIMATE	DESIGN ESTIMATE	INSPECTION ESTIMATE
Nevada from Howard to Norwich	6	resurface	325	\$100,000.00	in-house	in-house
Kansas from end of 2009 project to Norwich	2	reconstruct	400	\$250,000.00	\$7,500.00	in-house
Brust from Norwich to dead end	4	resurface	400	\$100,000.00	in-house	in-house
Alabama from Norwich to dead end	4	resurface	370	\$100,000.00	in-house	in-house
Pennsylvania from Howard to Elizabeth	4	reconstruct	1000	\$500,000.00	\$15,000.00	\$15,000.00
Elizabeth from Pennsylvania to Bombay	3	reconstruct	300	\$300,000.00	\$6,000.00	\$7,000.00
Tripoli from Pennsylvania to dead end	4	reconstruct	200	\$125,000.00	\$6,000.00	\$7,000.00
Bombay from Elizabeth to dead end	4	reconstruct	400	\$250,000.00	\$6,000.00	\$7,000.00
Sidewalk Replacement Program	NA	repair/grant	NA	\$40,000.00	in-house	in-house
<b>TOTAL RECOMMENDED BUDGET ESTIMATE</b>				<b>\$1,765,000.00</b>		
				<b>less reimbursement/grant</b>		
				<b>\$40,000.00</b>		
				<b>\$1,725,000.00</b>		

**YEAR - 2024**

ROAD	RATING	TYPE OF TREATMENT	PROJECT LENGTH	CONSTRUCTION ESTIMATE	DESIGN ESTIMATE	INSPECTION ESTIMATE
Gravel Alley west of Willow Glen, south of Denton	NA	construct	250	\$200,000.00	\$5,000.00	\$7,000.00
Alley west of Nicholson, south of Denton	NA	construct	150	\$100,000.00	\$10,000.00	\$7,000.00
Indiana north and south of Denton	1	construct	528	\$300,000.00	\$6,000.00	\$7,000.00
Allerton from Nicholson to dead end	1	construct	300	\$175,000.00	\$6,000.00	\$7,000.00
Delaware from Bottsford to dead end (gravel)	4	construct	158	\$100,000.00	\$6,000.00	\$7,000.00
Norwich from KK to dead end	3	construct	300	\$175,000.00	\$6,000.00	\$7,000.00
Watermain Trench Repair Program	NA	repair/reimbursement	NA	\$60,000.00	in-house	in-house
Sidewalk Replacement Program	NA	repair/grant	NA	\$40,000.00	in-house	in-house
<b>TOTAL RECOMMENDED BUDGET ESTIMATE</b>				<b>\$1,150,000.00</b>		
				<b>less reimbursement/grant</b>		
				<b>\$100,000.00</b>		
				<b>\$1,050,000.00</b>		

**YEAR - 2025**

ROAD	RATING	TYPE OF TREATMENT	PROJECT LENGTH	CONSTRUCTION ESTIMATE	DESIGN ESTIMATE	INSPECTION ESTIMATE
Waterford Pl from Hately to Swift	4	reconstruct	440	\$250,000.00	\$10,000.00	in-house
Martin Lane from Lake to Kirkwood	2	construct	320	\$250,000.00	complete	\$10,000.00
Troy from Tesch to Denton	3 - 6	resurface/reconstruct	800	\$400,000.00	\$10,000.00	\$10,000.00
Kingan from Waterford to Denton	4	resurface	370	\$100,000.00	\$10,000.00	\$10,000.00
Hately from Kirkwood to Denton	3	resurface/reconstruct	1575	\$600,000.00	\$10,000.00	\$10,000.00
Swift Pl from Denton to Tesch	4	resurface/reconstruct	675	\$350,000.00	\$10,000.00	\$10,000.00
Kirkwood from Tesch south to dead end	4	resurface	525	\$300,000.00	\$10,000.00	\$10,000.00
Plainfield from Kingan to Packard	4	resurface/reconstruct	400	\$250,000.00	\$10,000.00	in-house
Watermain Trench Repair Program	NA	repair/reimbursement	NA	\$60,000.00	in-house	in-house
Sidewalk Replacement Program	NA	repair/grant	NA	\$40,000.00	in-house	in-house
<b>TOTAL RECOMMENDED BUDGET ESTIMATE</b>				<b>\$2,600,000.00</b>		
				<b>less reimbursement/grant</b>		
				<b>\$100,000.00</b>		
				<b>\$2,500,000.00</b>		

**YEAR - 2026**

ROAD	RATING	TYPE OF TREATMENT	PROJECT LENGTH	CONSTRUCTION ESTIMATE	DESIGN ESTIMATE	INSPECTION ESTIMATE
Gravel alley west of Nicholson between Allerton and Van Norman	NA	construct	440	\$200,000.00	\$10,000.00	in-house
Pennsylvania Avenue from Morgan to Eden (City of Milwaukee)	4	resurface/reconstruct	100	\$50,000.00	\$7,000.00	City of Milwaukee
Brook Place from Crawford to dead end	5	construct	130	\$100,000.00	complete	\$7,000.00
Hill Place from Koenig to dead end (gravel)	5	construct	130	\$100,000.00	\$6,000.00	\$7,000.00
Cora from Kansas to Arctic	3	reconstruct	700	\$400,000.00	\$15,000.00	\$20,000.00
Tripoli from Arctic to Kansas	3-4-5	resurface/reconstruct	1200	\$600,000.00	\$15,000.00	\$20,000.00
Tesch from Iowa to dead end	4	reconstruct	475	\$400,000.00	\$40,000.00	\$20,000.00
Ellen from St. Francis Ave to City limits	3	reconstruct	400	\$400,000.00	\$15,000.00	\$20,000.00
Eden from Ellen to Pennsylvania	5/6	resurface/reconstruct	500	\$450,000.00	\$15,000.00	\$20,000.00
Sidewalk Replacement Program	NA	repair/grant	NA	\$40,000.00	in-house	in-house
<b>TOTAL RECOMMENDED BUDGET ESTIMATE</b>				<b>\$2,740,000.00</b>		
				<b>less reimbursement/grant</b>		
				<b>\$40,000.00</b>		
				<b>\$2,700,000.00</b>		

**TO BE CONSTRUCTED AFTER DETERMINATION OF PROJECTS IN AREA IS COMPLETED**

ROAD	RATING	TYPE OF TREATMENT	PROJECT LENGTH	CONSTRUCTION ESTIMATE	DESIGN ESTIMATE	INSPECTION ESTIMATE
E. Norwich Ave from E. Pennsylvania Ave east to dead end	1	construct	1110	\$2,000,000.00	completed in 2019	\$50,000.00
Crawford Avenue Parking Lot	NA	construct	NA	\$325,000.00	\$35,000.00	in-house

# ENGINEER'S REPORT MARCH 2022

## ROAD PROJECT REPORT

ROAD	TYPE OF TREATMENT	CONSTRUCTION ESTIMATE	DESIGN ESTIMATE	INSPECTION ESTIMATE	UPDATE ON PROJECT
E. St. Francis Avenue – RR Tracks to S. KK Ave	Resurface/ Reconstruct	\$300,000	Completed in 2018	\$20,000	Finalizing plans and specifications for bidding in March. Public hearing tentative for April.
Catch Basin Repair Project	NA	\$100,000	In-house	In-house	Bids received.
E. Koenig Avenue Culvert Lining Project	NA	\$120,000	\$5000	In-house	Working with consultant on preliminary plans/specifications.
S. Pennsylvania Avenue- S. Whitnall to E. Howard	Reconstruct/ Resurface	\$2,000,000	\$50,000	\$50,000	Creating RFP to retain consultant for design services.
S. Kinnickinnic Avenue – E. Howard to E. Lunham	Resurface	\$800,000	\$25,000	\$30,000	Creating RFP to retain consultant for design services.

## 2021

ROAD	TYPE OF TREATMENT	CONSTRUCTION ESTIMATE	DESIGN ESTIMATE	INSPECTION ESTIMATE	UPDATE ON PROJECT
2021 Mill and Overlay Project- Various Streets from Bottsford to Cudahy, Nicholson to Pennsylvania	Resurface	\$1,000,000	\$35,000	In-house	Project complete. Working on quantities for special assessments. Also working on punch list.

## 2020

ROAD	TYPE OF TREATMENT	CONSTRUCTION ESTIMATE	DESIGN ESTIMATE	INSPECTION ESTIMATE	UPDATE ON PROJECT
E. Norwich Avenue – east and west of S. Pennsylvania to the dead ends	reconstruct	\$1,000,000	\$35,000	\$50,000%	Have preliminary design. Working with property owners on encroachments resolution.



# City of St. Francis

Melinda K. Dejewski, PE, City Engineer/Director of Public Works

March 8, 2022

Honorable Board of Public Works  
City of St. Francis

Subject: MMSD Green Solutions Funding Opportunity with St. Francis School District

Gentlepersons:

The Milwaukee Metropolitan Sewerage District (MMSD) has a program called Green Solutions. It is a program to assist in the funding and implementation of green infrastructure such as bio-retention ponds, pervious pavement, rain garden, etc. The funding for this program is from the taxes paid by the residents of the City and then allocated back to the City as calculated by a population based formula. The City has been accruing funds for the past few years. The current total in the fund is \$293,335.00.

The St. Francis School District is proposing to include some green infrastructure features as part of the referendum improvements. These features are to reduce and/or solve issues that have been causing problems not only for the School District, but for the City as well. These items are not required as part of the improvements but are above and beyond. Any stormwater improvement cost required by expansion impervious surfaces was included in the funding from the referendum. The School District is making a grant application to MMSD to cost share in these features but MMSD will only fund a portion of these improvements based upon what type of feature is being proposed. The School District is also participating in some of the funding of some of these features. This unfortunately still leaves a gap.

The School District reached out at the beginning of their design to see if the City would consider partnering with them and using a portion of the Green Solution funds to help the School District make these improvements. The City stormwater consultant AECOM reviewed the proposed improvements to determine if they had any impact on the City stormwater model. They do not. I then reviewed them to determine if the proposed features would add value to the City overall by solving any issues that the City receives complaints about which is mainly water and icing on the sidewalk at Willow Glen and the High School.

I have identified several features which I believe would benefit both the School District and the City in solving long term issues. In addition, while the City may not receive credit in the stormwater model, these features will provide stormwater management and reduce pollutant loads in the stormwater that goes to Lake Michigan. Attached is a spreadsheet showing the proposed features, the funding amounts requested from the City and the options available for funding.

Based upon all this information, I recommend that the City use \$117,107.02 of the MMSD Green Solutions funds in the City's allocation for stormwater improvements at Willow Glen and the St. Francis High School sites as indicated on the attached spreadsheet.

Respectfully submitted,

Melinda K. Dejewski, PE  
City Engineer/Director of Public Works

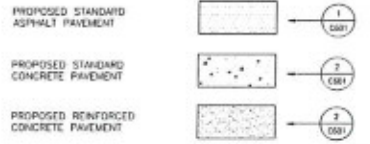
School	Stormwater Feature	District Priority	City Green Solutions Funding Request	Total
Willow Glen Site	depaving	3	\$5,203.00	\$37,563.50
	bio retention 1	1	\$0.00	
	bio retention 2	2	\$23,704.50	
	soil amendments	4	\$8,656.00	
St. Francis High School Site	bio retention 1E	3	\$13,129.50	\$113,233.87
	bio retention 1W	4	\$42,651.65	
	bio retention 2	2	\$11,428.37	
	bio retention 3	5	\$33,690.35	
	swale	1	\$12,334.00	
				\$150,797.37

Items definitely to fund	\$47,466.87
Items should fund	\$55,781.15
Willow Glen item #1 could fund	\$8,656.00
Willow Glen item #2 could fund	\$5,203.00
High School item could fund	\$33,690.35

Option 1	green only	\$47,466.87
Option 2	green and yellow	\$103,248.02
Option 3	green, yellow and pink	\$108,451.02
Option 4	green, yellow and blue	\$111,904.02
<b>Option 5</b>	<b>green, yellow, blue and pink</b>	<b>\$117,107.02</b>
Option 6	green, yellow, and purple	\$136,938.37
Option 7	green, yellow, blue and purple	\$145,594.37
Option 8	fund all stormwater options	\$150,797.37

City Green Solution Account Balance	\$293,355.00
amount left after Option 1	\$245,888.13
amount left after Option 2	\$190,106.98
amount left after Option 3	\$184,903.98
amount left after Option 4	\$181,450.98
<b>amount left after Option 5</b>	<b>\$176,247.98</b>
amount left after Option 6	\$156,416.63
amount left after Option 7	\$147,760.63
amount left after Option 8	\$142,557.63
<b>Recommendation - Option 5</b>	<b>\$117,107.02</b>

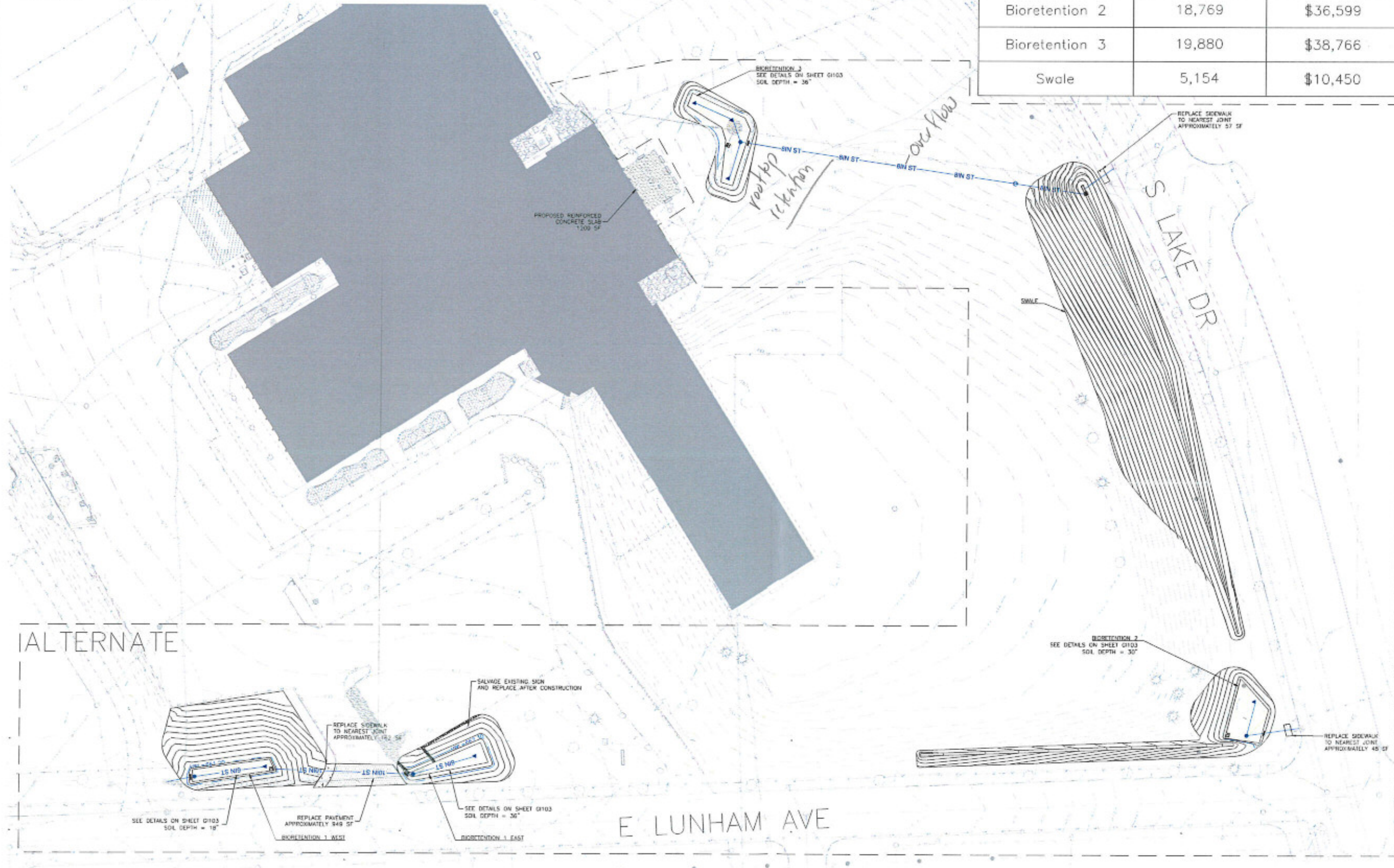
**PAVEMENT HATCH PATTERNS:**



**GSI HATCH PATTERNS:**



Feature	Gallons Managed	MMSD Reimbursement Amount
Bioretention 1	19,200	\$37,440
Bioretention 2	18,769	\$36,599
Bioretention 3	19,880	\$38,766
Swale	5,154	\$10,450



152 WEST COLLIER RD  
P.O. BOX 512  
CEDARBURG, WISCONSIN 53122  
PH: (262) 577-0301  
FX: (262) 971-8053



GREEN STORMWATER  
INFRASTRUCTURE  
ENGINEERING  
17 N. STATE STREET  
SUITE 1400, CHICAGO, IL 60602

**PROJECT**

ST. FRANCIS  
SCHOOL DISTRICT  
RENOVATION  
AND ADDITION  
TO SFHS

4225 S. LAKE DR.  
ST. FRANCIS, WI  
53235

**ISSUE**

NO. 001001 - 02/01/2012

**PROGRESS DOCUMENTS**

These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and should not be used for final bidding or construction-related purposes.

**PROJECT INFO**

Date: 01/14/2012  
Project No: 21316

**SHEET TITLE**

SITE PLAN

GI102

© Groth Design Group, Inc.

100% CONSTRUCTION DOCUMENTS





**GROTH**  
Design  
Group

185 WEST COLUMBIA RD  
PO BOX 512  
CEDAR RAPIDS, IOWA 52402  
PH (319) 377-8021  
FX (319) 377-8000



GREEN STORMWATER  
INFRASTRUCTURE  
ENGINEERING  
17 N STATE STREET  
SUITE 1400, CHICAGO, IL 60602

**PROJECT**  
  
**ST. FRANCIS  
SCHOOL DISTRICT  
RENOVATION TO  
WILLOW GLEN  
PRIMARY SCHOOL**

2400 E BOLIVAR AVE  
ST. FRANCIS, WI  
53235

**ISSUE**  
  
NO. 01/24/2022

**PROGRESS DOCUMENTS**

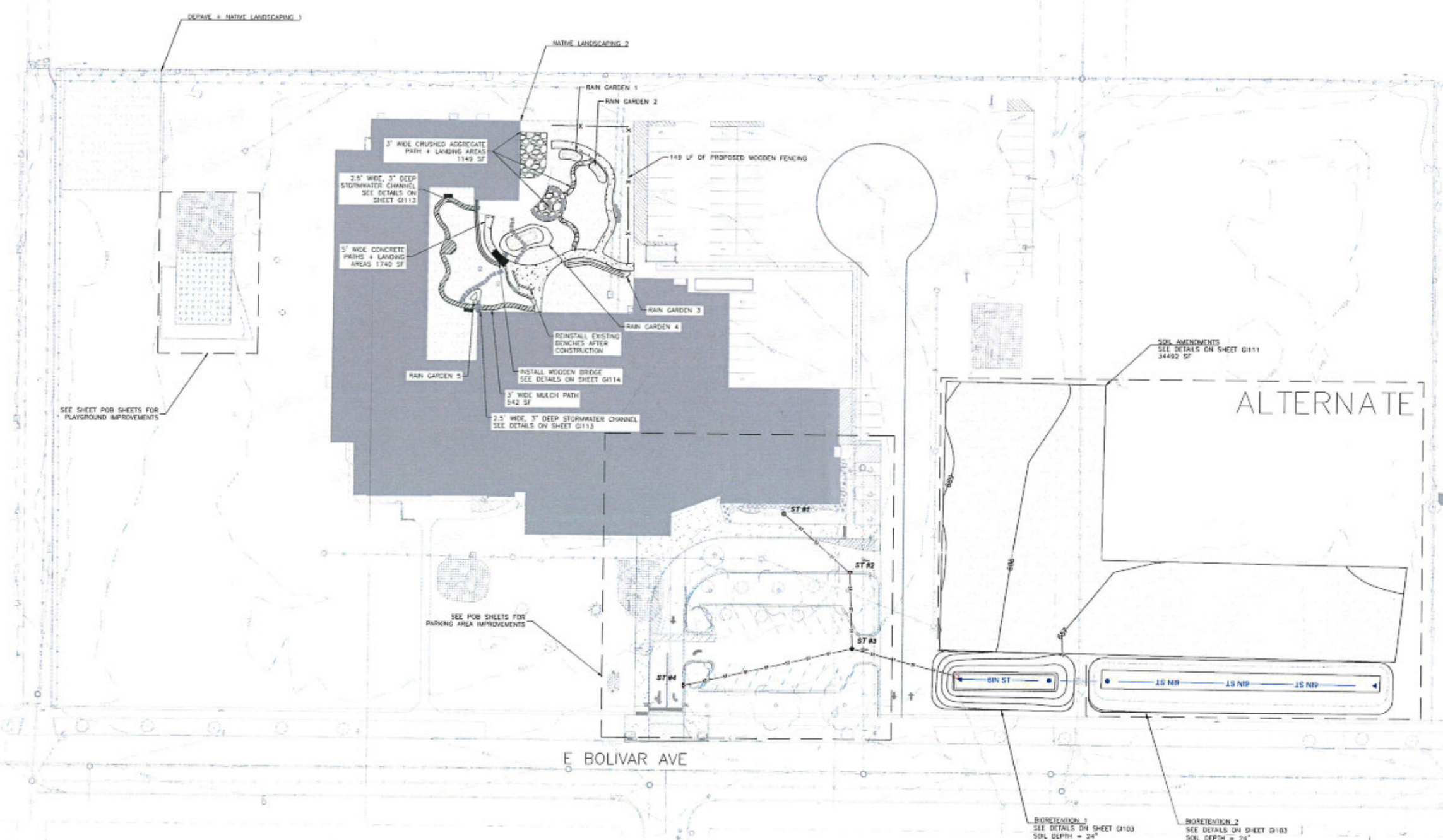
These documents reflect progress and items and may be subject to change, including without limitation, those that are not final construction documents and should not be used for final building or construction-related purposes.

**PROJECT INFO**  
Date: 01/24/2022  
Project No: 21-070

**SHEET TITLE**  
SITE PLAN

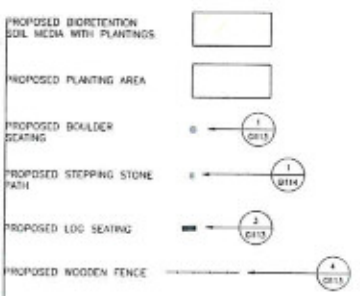
**GI102**

100% CONSTRUCTION DOCUMENTS

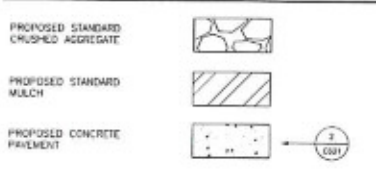


Feature	Gallons Monaged	MMSD Reimbursement Amount
Bioretention 1	13,067	\$25,480
Bioretention 2	43,690	\$85,195
Depave + Native Landscape 1	3,379	\$6,589
Native Landscaping 2	5,008	\$9,766
Rain Gardens	4,039	\$7,876
Soil Amendments	6,898	\$13,452

**GSI HATCH PATTERNS:**



**PAVEMENT HATCH PATTERNS:**



1/20/2022 8:53 AM