

Knutson Drive Reconstruction

Public Information Meeting
City of Madison Engineering Division
November 29, 2023

Thank you for attending. We will begin shortly...



Rules and Housekeeping Items for this Meeting

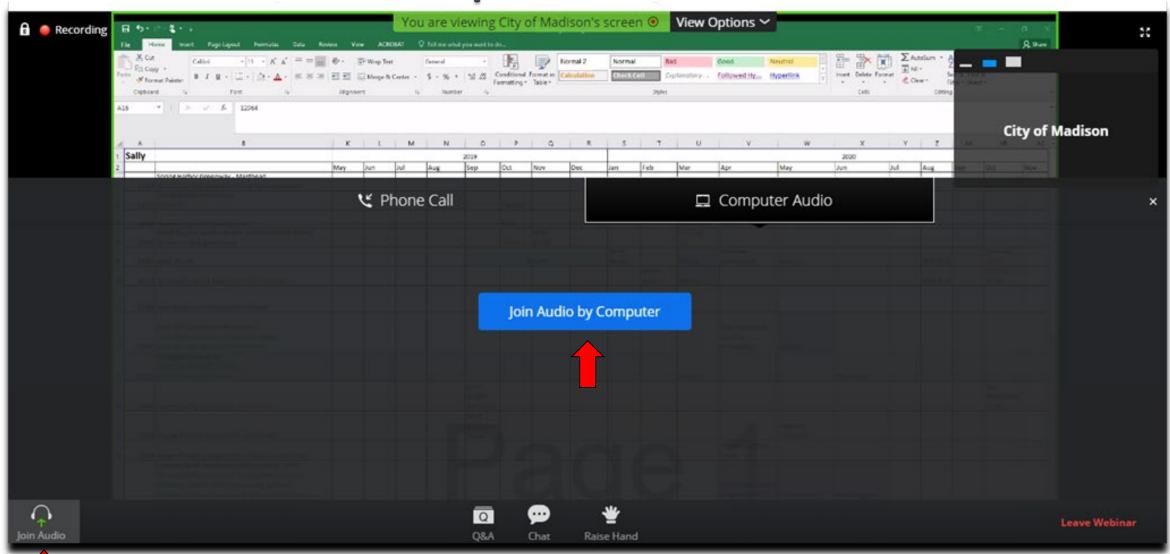
- This meeting will be <u>recorded</u> and posted to the City's project page.
- All attendees will be <u>muted</u> during the presentation.
- Use <u>"chat"</u> option if you are having technical issues and a staff person can try to assist.
 - Chat will be disabled once presentation starts.
- After the presentation, participants may ask questions via the "Q&A" option, verbally, or by email.
 - Please use the "Q&A" option at the bottom of the screen to type a question.
 - To ask a question verbally, click the <u>"raise hand"</u> option at the bottom of your screen and the host will unmute you.
 - Email a question to <u>Ngutierrez@cityofmadison.com</u>



This meeting is being recorded. It is a public record subject to disclosure.

By continuing to be in the meeting, you are consenting to being recorded and consenting to this record being released to public record requestors.

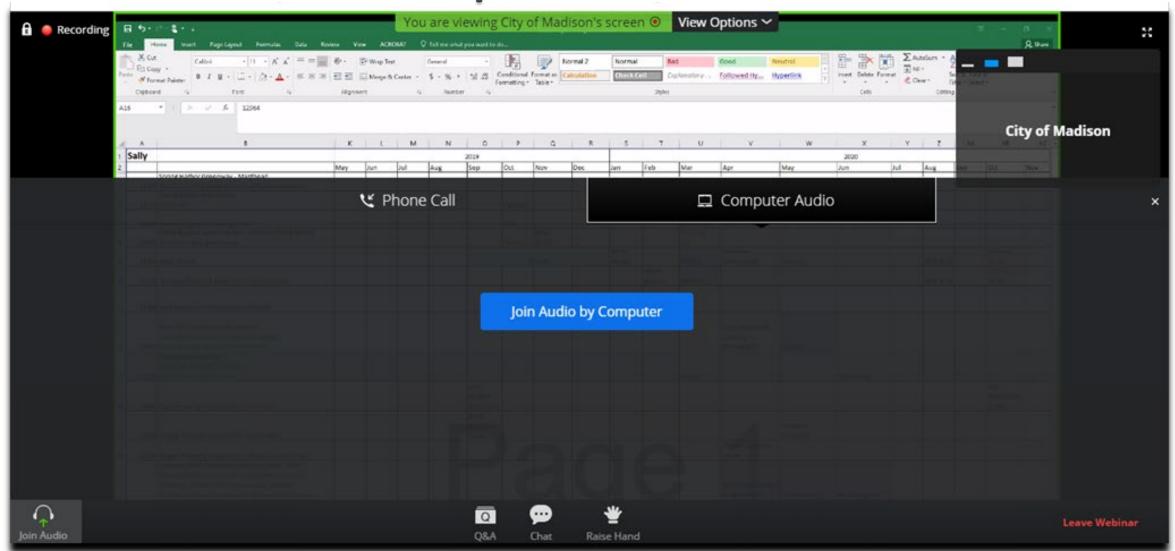






Join audio to ensure you will be able to hear the speaker

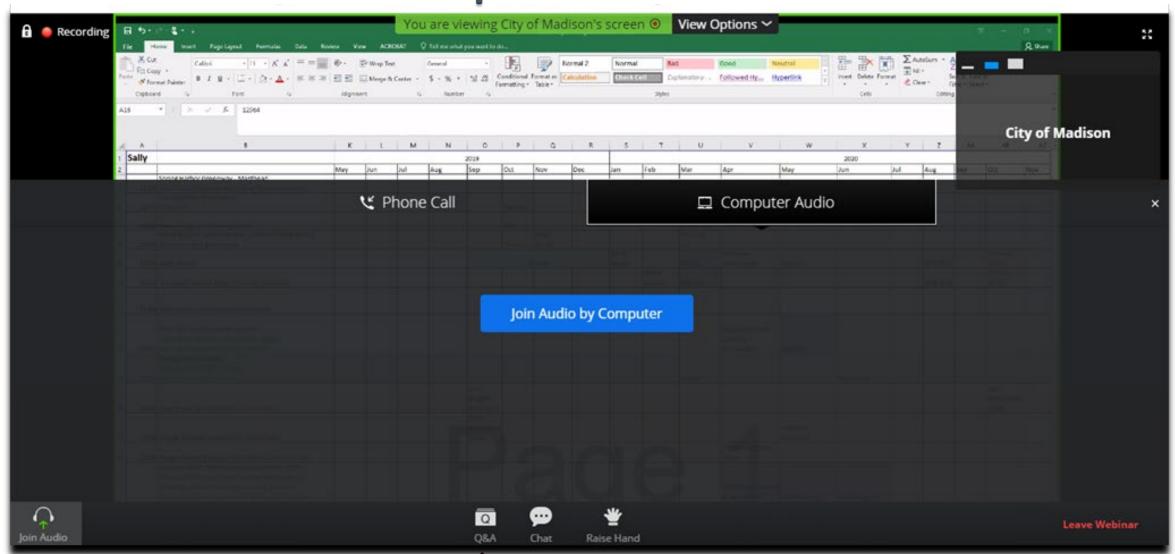




Raise your hand to be unmuted and ask questions after the meeting

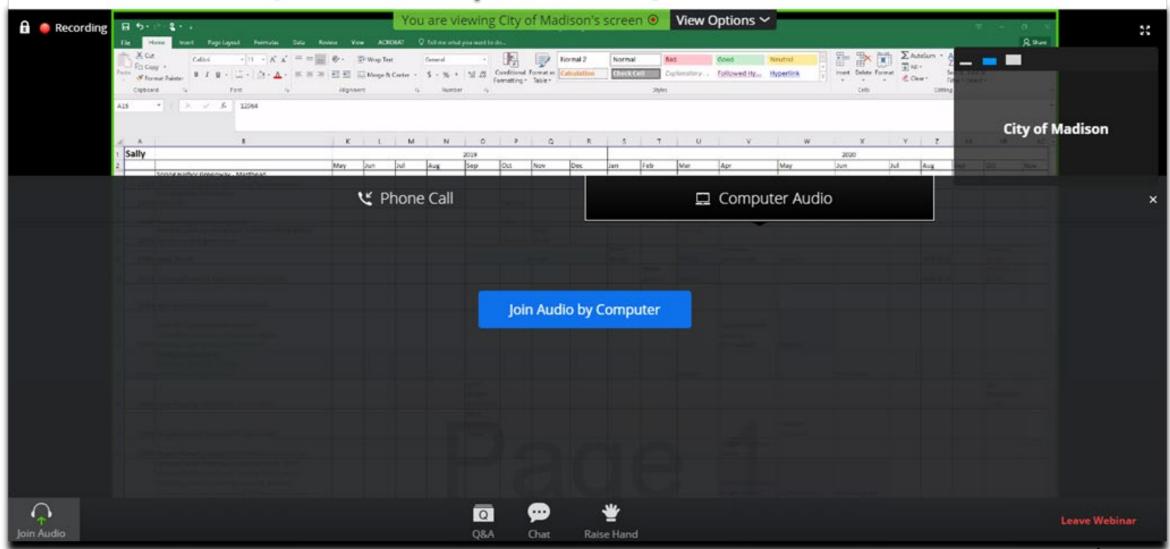






Use Q/A if you have questions T We will answer after the presentation





Closed Captioning

- If you'd like to enable closed captioning, click "show closed captions" button on the bottom of the screen.
- This may already be enabled. If this is not enabled, click the button to allow closed captioning.



Thank You for participating!

- Welcome (Hannah Mohelnitzky, Public Information Officer, City of Madison)
- Introduction (Alder Charles Myadze, District 18)
- Presentation (Nashaly Gutierrez Vazquez & Andrew Zwieg, P.E. City of Madison)
- Q&A (facilitated by Hannah Mohelnitzky)
 - Assisted by:
 - Renee Callaway, Pedestrian Bicycle Administrator, City of Madison
 - Ali Heinritz, Traffic Engineer, City of Madison
 - Todd Chojnowski, Sewer Engineer, City of Madison
- o Presentation available on the website:
 - www.cityofmadison.com/engineering/projects/knutson-drive-reconstruction

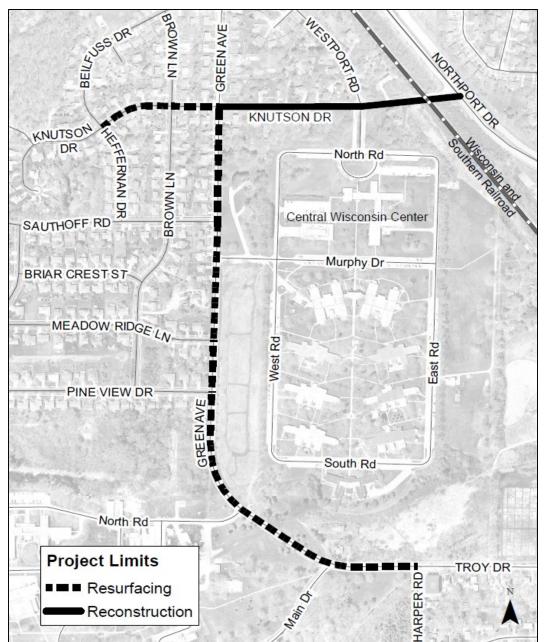


- Project Location
- Meeting Purpose
- Vision Zero
- Complete Green Streets
- Proposed Street Design
- Proposed Street Design Options
- Proposed Utility Design
- Proposed Stormwater Management

- Terrace Rain Gardens
- Questionnaire Results
- Forestry Information
- Assessments Policy & Costs
- Project Approve Schedule
- Construction & Access
- Next Steps
- Contact Information, Resources,
 Q&A



Project Location





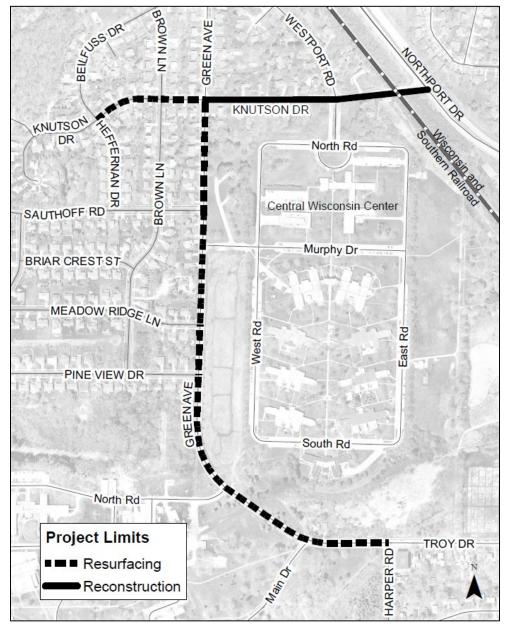
- Project Location
- Meeting Purpose
- Vision Zero
- Complete Green Streets
- Proposed Street Design
- Proposed Street Design Options
- Proposed Utility Design
- Proposed Stormwater Management

- Terrace Rain Gardens
- Questionnaire Results
- Forestry Information
- Assessments Policy & Costs
- Project Approve Schedule
- Construction & Access
- Next Steps
- Contact Information, Resources,
 Q&A



Meeting Purpose

- To gain public feedback for the street layout options for the reconstruction portion
- Communicate residents on the assessments
- To inform the public on the approval schedule and construction access
- Remind the public to fill-out the online questionnaire

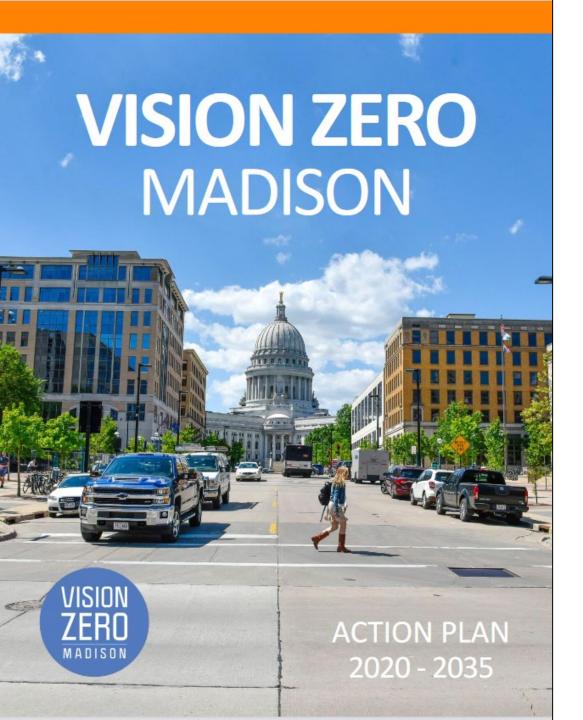




- Project Location
- Meeting Purpose
- Vision Zero
- Complete Green Streets
- Proposed Street Design
- Proposed Street Design Options
- Proposed Utility Design
- Proposed Stormwater Management

- Terrace Rain Gardens
- Questionnaire Results
- Forestry Information
- Assessments Policy & Costs
- Project Approve Schedule
- Construction & Access
- Next Steps
- Contact Information, Resources,
 Q&A





- Initiative to eliminate traffic deaths and severe injuries on City streets by 2035
- Increase safe, healthy, equitable mobility for all ages and abilities

Crash History

- Since 2017, 2 reported injury crashes on Knutson Drive
 - 1 bike (failure to yield to bike) and 1 motor vehicle (reckless/distracted driving)
- Since 2017, no reported injury crashes on Green Avenue
- Current Walking and Biking Facilities
- No sidewalk on this section of Knutson Drive & sidewalk on one side on Green Avenue
- Bikes share travel lane with motor vehicles on both Knutson Drive & Green Avenue



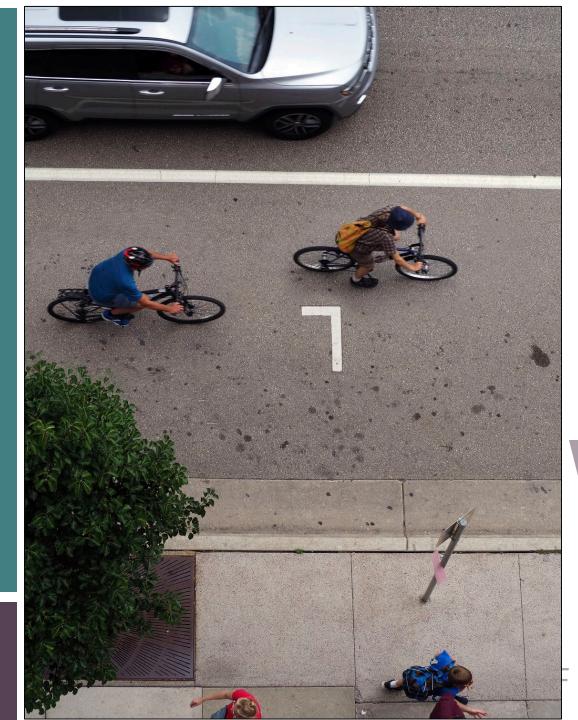
- Project Location
- Meeting Purpose
- Vision Zero
- Complete Green Streets
- Proposed Street Design
- Proposed Street Design Options
- Proposed Utility Design
- Proposed Stormwater Management

- Terrace Rain Gardens
- Questionnaire Results
- Forestry Information
- Assessments Policy & Costs
- Project Approve Schedule
- Construction & Access
- Next Steps
- Contact Information, Resources,
 Q&A

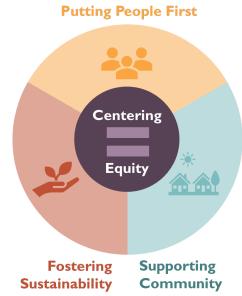


City of Madison

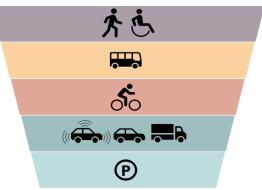
Complete Green Streets Guide



STREET VALUES



MODAL HIERARCHY







Principles of Complete Green Streets

- Streets are for everyone, no matter who they are or how they travel.
- There is no one design but instead each design considers the specific context of the neighborhood and street.
- Streets are designed and operated to prioritize safety, comfort and access for all users.
- Green infrastructure integrates sustainability in the right of way to help our City be more resilient and helps provide a welcoming public place.

COMPLETE GREEN STREETS — STREET TYPE

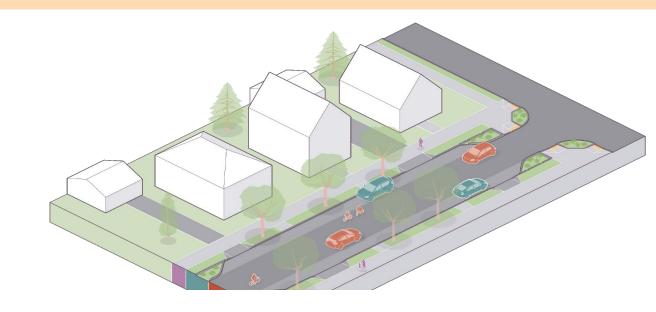
Neighborhood Street

Context: Residential neighborhood

Description: Wider neighborhood streets.

Includes some higher-traffic streets and transit routes that should be designed to prioritize neighborhood quality of life. Allows two drivers to pass each other without stopping.

Target Speed: 20 mph or less



Zone Priorities and Preferred Elements for Each Zone

Walkway	Flex Zone	Travelway	Additional Considerations
High Priority	Medium Priority	Low Priority'	
Standard sidewalks, with landscaping between the sidewalk and homes or buildings. May shift closer to or farther from the street to avoid impacting canopy trees.	Landscaped terrace with street trees. May straddle the walkway when the walkway is close to the street to avoid impacting existing canopy trees. Onstreet parking on one or both sides common.	Two-way travel without lane markings. No dedicated bikeway unless traffic volumes are above 3,000 ADT.	Speed management, parking demand to determine type and amount of on-street parking.

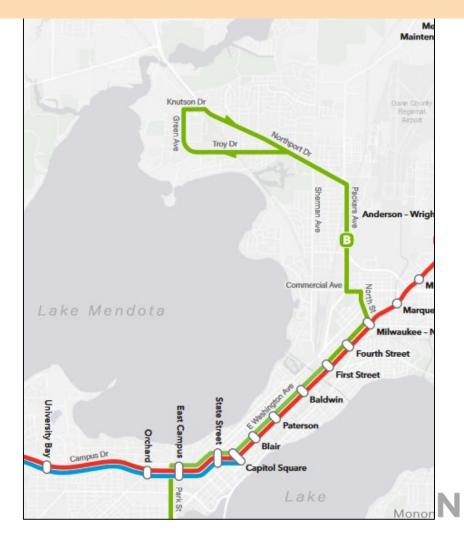


Knutson Drive and Green Avenue

Transit Priority Street

- Future planned North-South BRT Transit Route
- More information online at <u>madisonbrt.com</u>







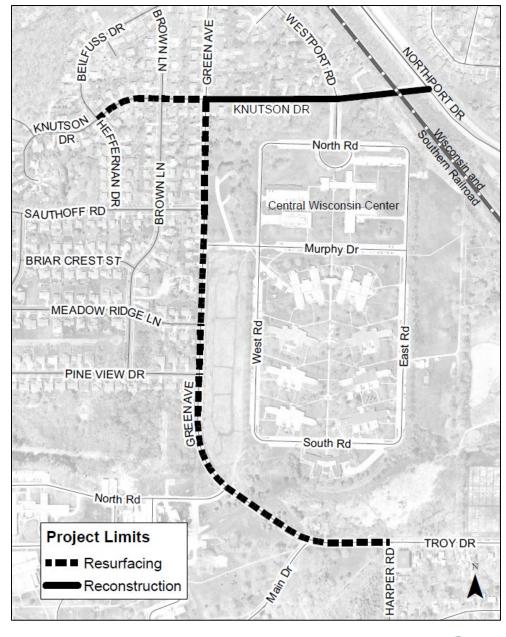
- Project Location
- Meeting Purpose
- Vision Zero
- Complete Green Streets
- Proposed Street Design
- Proposed Street Design Options
- Proposed Utility Design
- Proposed Stormwater Management

- Terrace Rain Gardens
- Questionnaire Results
- Forestry Information
- Assessments Policy & Costs
- Project Approve Schedule
- Construction & Access
- Next Steps
- Contact Information, Resources,
 Q&A



Proposed Street Design

- Street reconstruction
 - Knutson Drive (Green Avenue to Northport Drive)
 - Replacement of asphalt pavement, gravel base, and driveway aprons
 - Street design & construction will include new: curb & gutter and sidewalk
- Street resurfacing
 - Knutson Drive (Heffernan Drive/Beilfuss Drive to Green Avenue)
 - Full replacement of asphalt pavement only
 - Gravel base to remain
 - Existing curb and gutter and sidewalk to remain
 - Green Avenue (Knutson Drive to Harper Road)
 - Partial replacement of asphalt pavement only
 - Remove/replace 2-inches



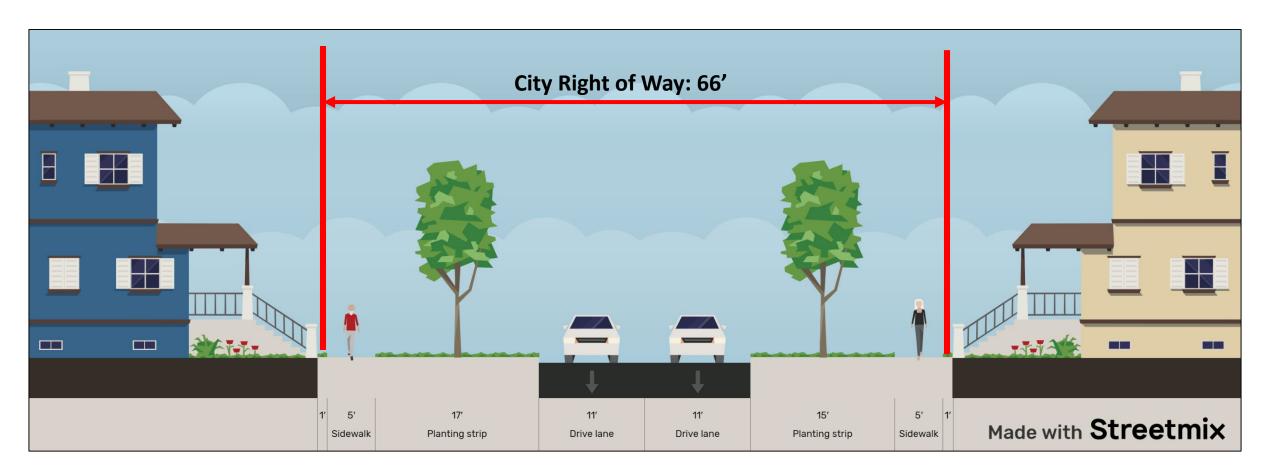


- Project Location
- Meeting Purpose
- Vision Zero
- Complete Green Streets
- Proposed Street Design
- Proposed Street Design Options
- Proposed Utility Design
- Proposed Stormwater Management

- Terrace Rain Gardens
- Questionnaire Results
- Forestry Information
- Assessments Policy & Costs
- Project Approve Schedule
- Construction & Access
- Next Steps
- Contact Information, Resources,
 Q&A



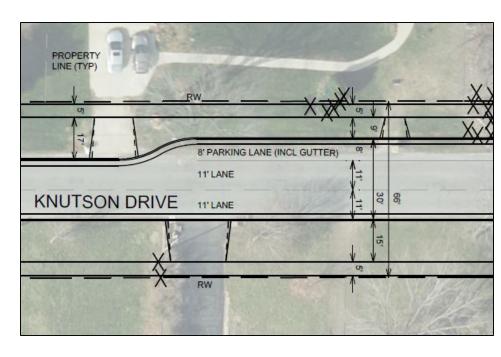
Option 1A – Knutson Drive, Green Avenue to Northport Drive





- Option 1A Knutson Drive, Green Avenue to Northport Drive
 - 11' vehicles lanes
 - Add curb & gutter
 - Replace driveway aprons
 - 5' sidewalks on both sides
 - Narrow street to lower speeding
 - Maintain majority of trees in the right of way
 - City staff recommendation

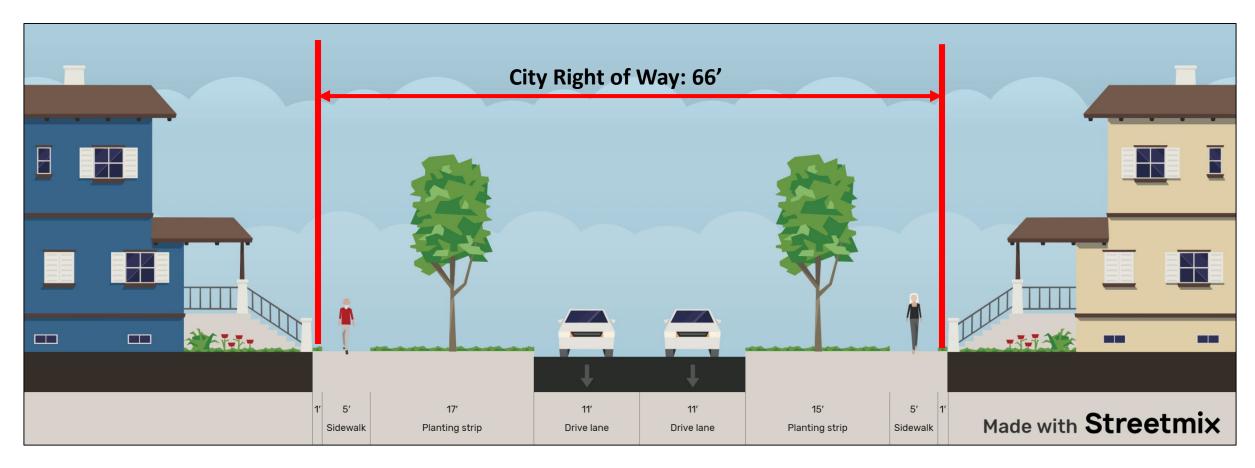
- 8' parking pockets
 - First pocket: 160', fitting 10 cars
 - Second pocket: 140', fitting 9 cars
 - Third pocket: 130', fitting 8 cars





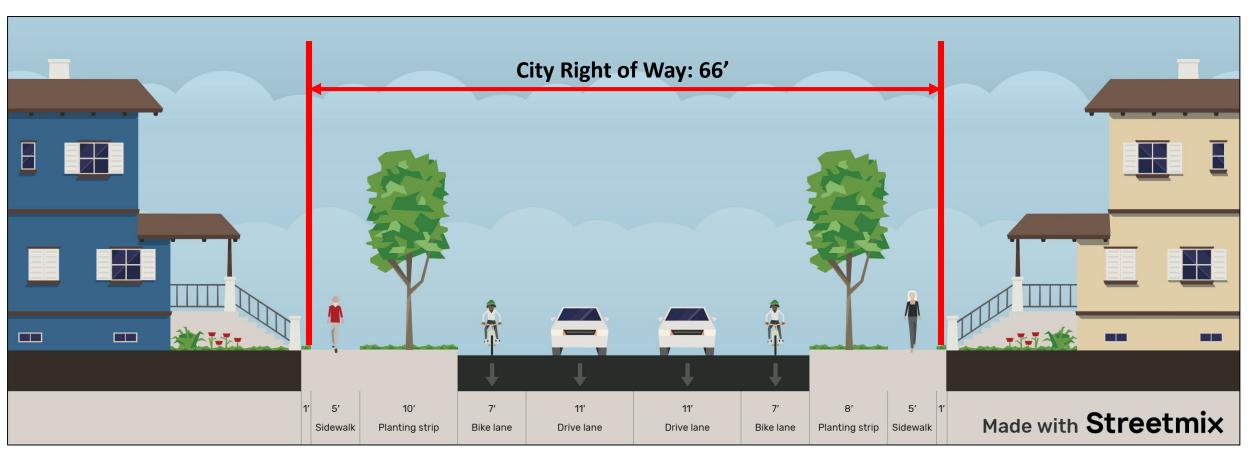


Option 1B – Knutson Drive, Green Avenue to Westport Drive

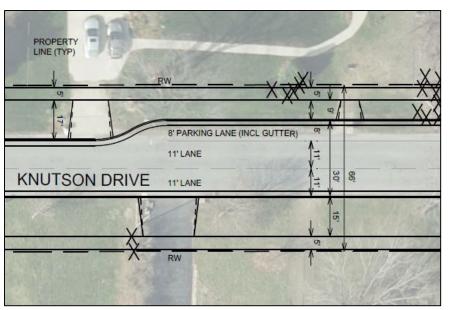


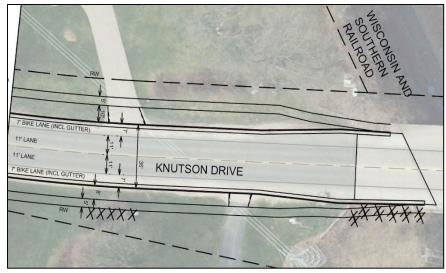


Option 1B – Knutson Drive, Westport Drive to Northport Drive



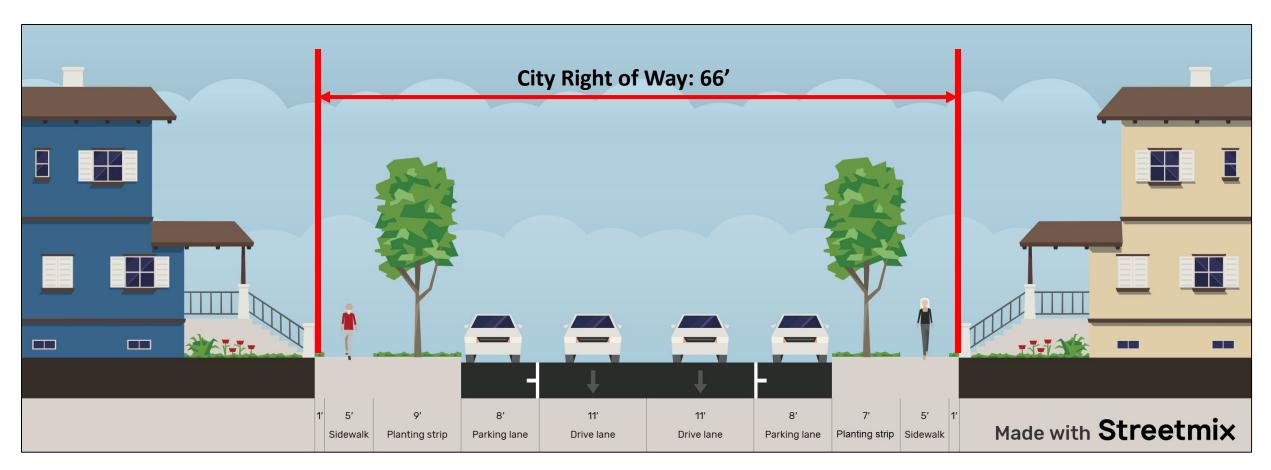
- Option 1B:
 - 11' vehicle lanes
 - Add curb & gutter
 - Replace driveway aprons
 - 5' sidewalk on both sides
- Knutson Drive, Green Avenue to Westport Drive
 - 8' parking pockets (similar as option 1A)
 - First pocket: 160', fitting 10 cars
 - Second pocket: 140', fitting 9 cars
- Knutson Drive, Westport Drive to Northport Drive
 - 7' bicycle lanes for higher traffic volumes
 - 3,000 vehicles per day
 - Wider pavement likely to result in higher speeds





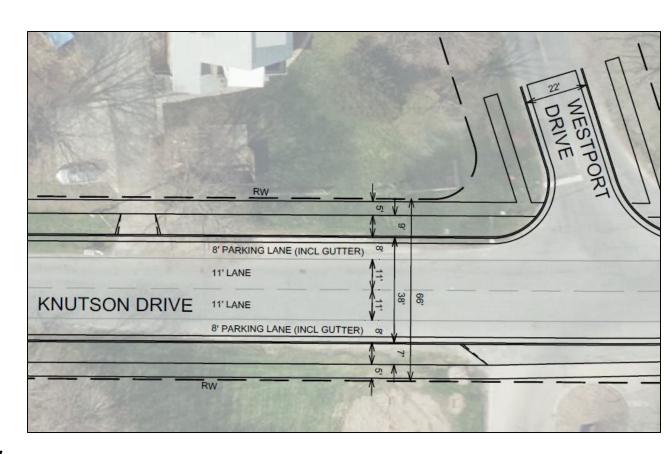


Option 2A – Knutson Drive, Green Avenue to Northport Drive



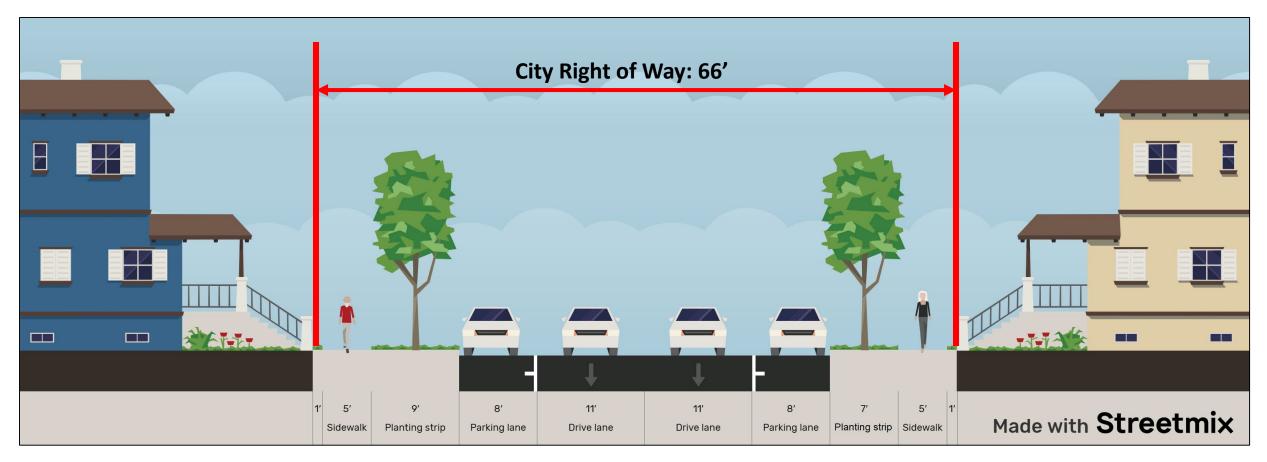


- Option 2A Knutson Drive, Green Avenue to Northport Drive
 - 11' vehicles lanes
 - Add curb & gutter
 - 5' sidewalk on both sides
 - Replace driveway aprons
 - 8' parking lanes fitting 70 cars on each side of the street
 - Wider pavement likely to result in higher speeds
 - Removes all trees within the right-of-way

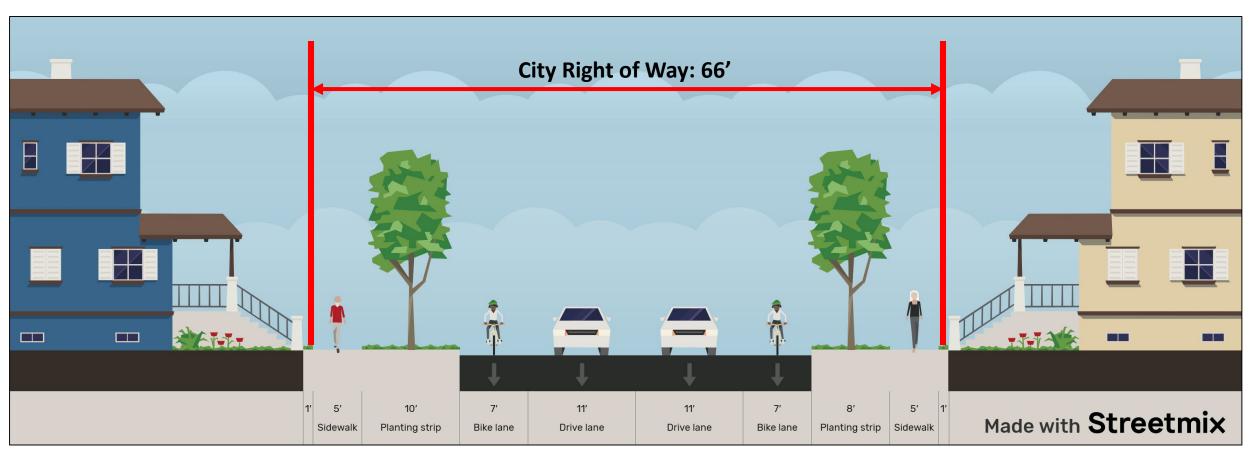




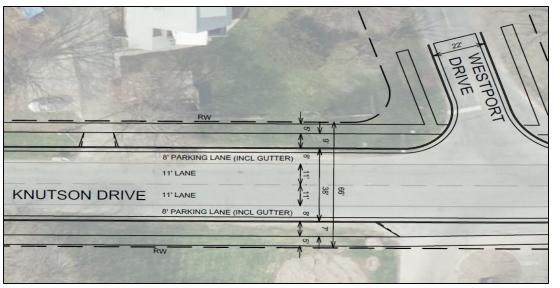
Option 2B – Knutson Drive, Green Avenue to Westport Drive

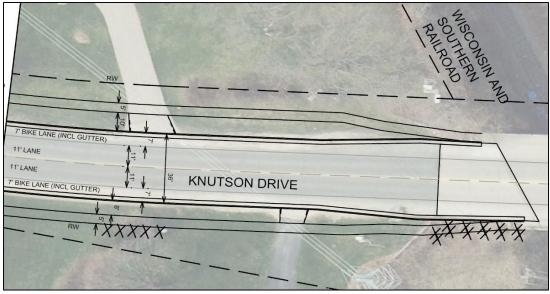


Option 2B – Knutson Drive, Westport Drive to Northport Drive



- Option 2B:
 - 11' vehicle lanes
 - Add curb & gutter
 - Replace driveway aprons
 - 5' sidewalk on both sides
- Knutson Drive, Green Avenue to Westport Drive
 - 8' parking lanes fitting 50 cars on each side of the street
- Knutson Drive, Westport Drive to Northport Drive
 - 7' bicycle lanes for higher traffic volumes
 - 3,000 vehicles per day
 - Wider pavement likely to result in higher speeds







- Project Location
- Meeting Purpose
- Vision Zero
- Complete Green Streets
- Proposed Street Design
- Proposed Street Design Options
- Proposed Utility Design
- Proposed Stormwater Management

- Terrace Rain Gardens
- Questionnaire Results
- Forestry Information
- Assessments Policy & Costs
- Project Approve Schedule
- Construction & Access
- Next Steps
- Contact Information, Resources,
 Q&A



Proposed Utility Design

- Knutson Drive and Green Avenue
 - Existing sanitary sewer & laterals to remain (1985)
 - Existing water main to remain (1961)
 - Relocate hydrants as needed
 - Existing storm sewer to main (Green Ave, 1990s)
 - Installation of storm sewer
 - Heffernan Drive/Beilfuss Drive through Green Avenue to reconstruction portion
 - Bioretention and/or rain gardens (reconstruction portion)
 - Existing street lighting to remain

- Project Location
- Meeting Purpose
- Vision Zero
- Complete Green Streets
- Proposed Street Design
- Proposed Street Design Options
- Proposed Utility Design
- Proposed Stormwater Management

- Terrace Rain Gardens
- Questionnaire Results
- Forestry Information
- Assessments Policy & Costs
- Project Approve Schedule
- Construction & Access
- Next Steps
- Contact Information, Resources,
 Q&A



Proposed Stormwater Management

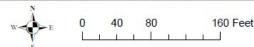
- What is Stormwater?
 - Rain and melting snow that flows off street, house rooftops, driveways, and lawns
- Treating stormwater is a requirement for the reconstruction project
 - WDNR requires treatment for rural to urban street changes
 - Possible installation of terrace bioretention basins
 - Maintained by City
 - Underdrain installed
 - Connected to storm sewer
 - Capture sediment and pollutants coming from the street
 - WDNR goal for the project is 40% reduction in sediment
 - Possible installation of terrace rain gardens
 - Maintained by property owner
 - No underdrain installed
 - No WDNR goal



Proposed Stormwater Management



Potential Location and Size of Required Bioretention Knutson Dr.



- The north side of the street is required to achieve 40% Total Suspended Solids (TSS) reduction per WDNR statute
- Bioretention with a 400 sf area and 6" of ponding depth can reach this treatment level.

- Project Location
- Meeting Purpose
- Vision Zero
- Complete Green Streets
- Proposed Street Design
- Proposed Street Design Options
- Proposed Utility Design
- Proposed Stormwater Management

- Terrace Rain Gardens
- Questionnaire Results
- Forestry Information
- Assessments Policy & Costs
- Project Approve Schedule
- Construction & Access
- Next Steps
- Contact Information, Resources,
 Q&A



Terrace Rain Gardens



- Collect the stormwater runoff from the road
- 1 foot deep (from top of the curb)
- Constructed and planted by the city
 - Use native vegetation
- Maintenance is done by the residents
 - Guides are available
- \$100 cost to residents
 - City pays \$3,000 for construction and planting
- Residents receive \$5 off Municipal services bill each month.

Terrace Rain Garden

- Interested?
- City will determine whether or not your terrace is suitable
- Contact Phil Gaebler directly
 - Email: PGaebler@cityofmadison.com
 - Phone: 608-266-4059



terrace rain garden

You can learn more at: www.cityofmadison.com/TerraceRainGardens



Terrace Rain Garden

Parcels that expressed interest in a rain garden (reconstruction portion)



- Parcels on Knutson Drive are eligible provided the terrace is 10' wide or wider
- Street cross section options
 - 1A, 1B rain gardens all of Knutson Drive
 - 2A no rain gardens
 - 2B rain gardens only east of Westport



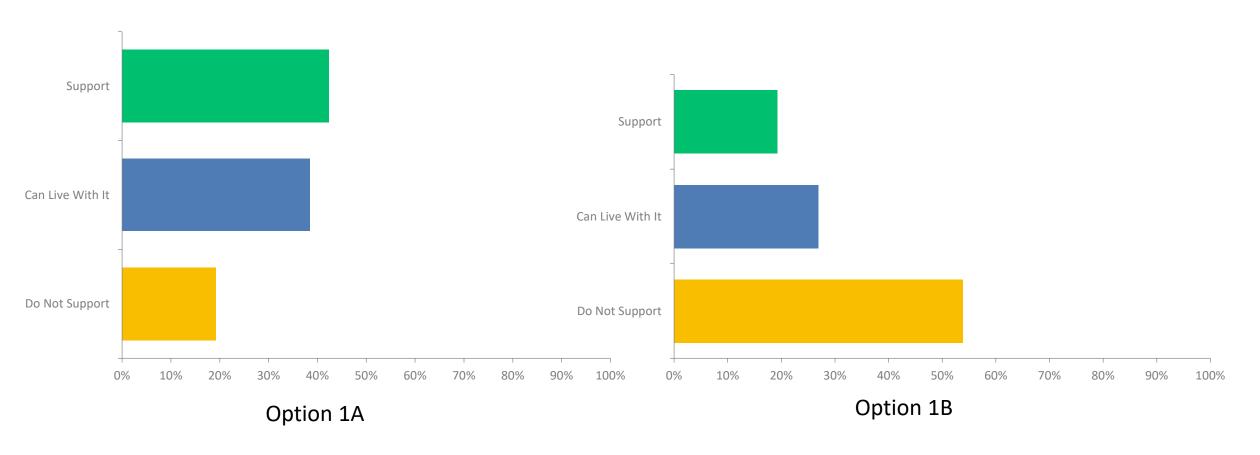
- Project Location
- Meeting Purpose
- Vision Zero
- Complete Green Streets
- Proposed Street Design
- Proposed Street Design Options
- Proposed Utility Design
- Proposed Stormwater Management

- Terrace Rain Gardens
- Questionnaire Results
- Forestry Information
- Assessments Policy & Costs
- Project Approve Schedule
- Construction & Access
- Next Steps
- Contact Information, Resources,
 Q&A



Questionnaire Results

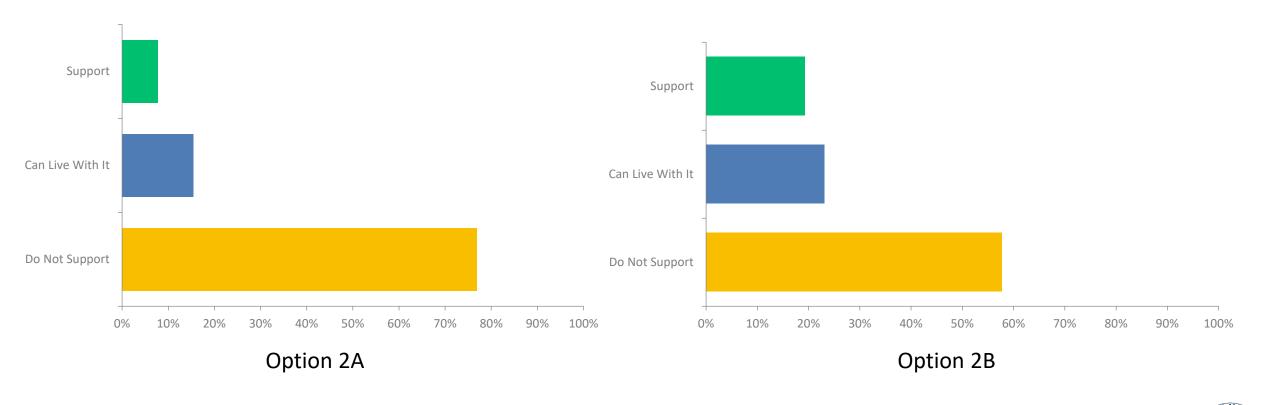
- Design options preliminary results
 - 26 responses





Questionnaire Results

- Design options preliminary results
 - 26 responses





- Project Location
- Meeting Purpose
- Vision Zero
- Complete Green Streets
- Proposed Street Design
- Proposed Street Design Options
- Proposed Utility Design
- Proposed Stormwater Management

- Terrace Rain Gardens
- Questionnaire Results
- Forestry Information
- Assessments Policy & Costs
- Project Approve Schedule
- Construction & Access
- Next Steps
- Contact Information, Resources,
 Q&A



Forestry Information

- City Engineering has reviewed the project with City Forestry & a Forestry representative will work with the City design team, City Construction Inspector, and Contractor during construction
- Trees will be pruned prior to construction to provide required clearance above street
- Location of known tree removals
 - None, if any determined once a street layout option is approved and design is completed,
 adjacent property owners will be notified
- Methods of tree protection include:
 - Adjusting curb and sidewalk construction methods and vertical elevation of the street
- Shrubs within right-of-way likely removed during construction
- Property owners will be notified if a tree needs to be removed during construction
- After project completion, Forestry will evaluate terrace for potential tree planting locations



- Project Location
- Meeting Purpose
- Vision Zero
- Complete Green Streets
- Proposed Street Design
- Proposed Street Design Options
- Proposed Utility Design
- Proposed Stormwater Management

- Terrace Rain Gardens
- Questionnaire Results
- Forestry Information
- Assessments Policy & Costs
- Project Approve Schedule
- Construction & Access
- Next Steps
- Contact Information, Resources,
 Q&A



Assessment Policy & Costs

- Special charge for work being done that has a direct benefit to the property
- Preliminary assessments mailed during design phase
 - Based on estimated quantities
 - Unit prices for driveways, pavement reconstruction, terrace walks, and storm sewer items based on 2024 street improvements rates
 - Rates are an average of last 3 years of construction costs
 - Unit prices for sanitary laterals and private storm sewer connections based on estimated prices
- Assessment can be paid in lump sum or typical over 8 years with a 4% interest
- Final assessments are billed after project completion
 - Based measure quantities
 - Unit prices for driveways, pavement reconstruction, terrace walks will not change from preliminary
 - Unit prices for sanitary laterals and private sewer connections based on bid prices
 - Mailed in 2025



Assessment Policy & Costs

Knutson Drive and Green Avenue

Item	Property Owner Share	City Share
10' Pavement Replacement*	100%	0%
10' Pavement Resurfacing*	100%	0%
Driveway Apron	50%	50%
Terrace Walk Replacement (between sidewalk & curb)	50%	50%
Sidewalk New/Replacement	0%	100%
Curb & Gutter New/Replacement	0%	100%
Intersection Curb & Pavement	0%	100%
Sanitary Sewer Main	0%	100%
Sanitary Sewer Lateral	25%	75%
Storm Sewer Main	0%	100%
Private Storm Connections (if any)	100%	0%

^{*}Assessed per linear feet of frontage



Assessment Policy & Costs

- Approximate Knutson Drive and Green Ave property owner costs for items
 - Street Reconstruction
 - Approx. driveway apron replacement: \$1,200
 - Approx. 10' pavement replacement: \$40.95 per ft.
 - 50% discount for corner lots
 - Approx. Sewer lateral replacement: \$3,000.00
 - Estimate for 100 feet of lot frontage: \$7,000-\$8,000
 - Street Resurfacing
 - Approx. 10' pavement resurfacing: \$10.88 per ft.
 - Estimate for 100 feet of lot frontage: \$1,000
 - Sidewalk not assessed
 - Curb & gutter not assessed



- Project Location
- Meeting Purpose
- Vision Zero
- Complete Green Streets
- Proposed Street Design
- Proposed Street Design Options
- Proposed Utility Design
- Proposed Stormwater Management

- Terrace Rain Gardens
- Questionnaire Results
- Forestry Information
- Assessments Policy & Costs
- Project Approve Schedule
- Construction & Access
- Next Steps
- Contact Information, Resources,
 Q&A



Project Approval Schedule

- December 13, 2024: Transportation Commission
 - Engineering staff will present street layout options for approval and seek a recommendation
- March 8, 2024: Mail Estimated Assessment
- March 20, 2024: Approving Plans, Specifications, and Assessments; Board of Public Works Hearing
 - Engineering staff will recommend a street layout option for approval
- April 16, 2024: Approving Plans, Specifications, and Assessments; Common Council Public Hearing



Construction & Access

- Knutson Drive & Green Avenue (resurfacing portion)
 - Area between curb and gutter will be disturbed during construction for the installation of storm sewer
 - Terrace may be disturbed to store construction materials
- Knutson Drive (reconstruction portion)
 - Full right-of-way area will be disturbed during construction for the installation of sidewalk, storage of materials, and moving equipment around
 - If you wish to save any landscaping or stone/brick pavers, please remove prior to the start of work in Spring of 2024
 - Contractor will remove existing mailbox, store, install temporary, & reinstall after the project is complete
- All disturbed grass areas will be restored with topsoil, seed, and erosion matting



Construction & Access

- Knutson Drive & Green Avenue (resurfacing & reconstruction portion)
 - Closed to through traffic, local traffic only
 - Residential driveways access will maintained during most of construction but closed up to a cumulative total of 20 days, residents are notified before
 - Not accessible when contractor is working directly in front
 - Closed when curb, sidewalk, and driveway apron installed
- Allowed working hours are 7:00 am to 7:00 pm Monday-Saturday, & 10:00 am to 7:00 pm Sundays
- Approximately 4-5 months to complete all work
- Construction: Late Spring/Early Summer Fall 2024



- Project Location
- Meeting Purpose
- Vision Zero
- Complete Green Streets
- Proposed Street Design
- Proposed Street Design Options
- Proposed Utility Design
- Proposed Stormwater Management

- Terrace Rain Gardens
- Questionnaire Results
- Forestry Information
- Assessments Policy & Costs
- Project Approve Schedule
- Construction & Access
- Next Steps
- Contact Information, Resources,
 Q&A



Next Steps

- Up coming opportunities for public involvement
 - Fill out the questionnaire #2
 - Sign-up for project email updates on the website
 - Transportation Commission meeting
 - Board of Public Works meeting
 - Common Council meeting
- Public notified via website updates and/or mailing
- www.cityofmadison.com/engineering/projects/knutson-drive-reconstruction



- Project Location
- Meeting Purpose
- Vision Zero
- Complete Green Streets
- Proposed Street Design
- Proposed Street Design Options
- Proposed Utility Design
- Proposed Stormwater Management

- Terrace Rain Gardens
- Questionnaire Results
- Forestry Information
- Assessments Policy & Costs
- Project Approve Schedule
- Construction & Access
- Next Steps
- Contact Information, Resources,Q&A



Thank You for Attending!

Questions

- Please use the <u>"Q&A"</u> option at the bottom of the screen to type a question.
- To ask a question verbally, click the <u>"raise hand"</u> option at the bottom of your screen and the host will unmute you.

Engineering

- Nashaly Gutierrez Vazquez, Project Engineer, 266-4414, Ngutierrez@cityofmadison.com
- Andrew Zwieg P.E., Project Manager, 266-9219, <u>azwieg@cityofmadison.com</u>
- Todd Chojnowski, Sewer Engineer, 266-4094, <u>TChojnowski@cityofmadison.com</u>
- Phil Gaebler, Rain Garden Contact, 266-4059, PGaebler@cityofmadison.com
- o Hannah Mohelnitzky, Public Information Officer, 669-3560, hmohelnitzky@cityofmadison.com

Traffic Engineering

- o Renee Callaway, Pedestrian Bicycle Administrator, 266-6225, ReCallaway@cityofmadison.com
- Ali Heinritz, Traffic Engineer, 267-1102, <u>aheinritz@cityofmadison.com</u>
- Project Website: <u>www.cityofmadison.com/engineering/projects/knutson-drive-reconstruction</u>
 - Questionnaire will remain open until 12/07/2023
 - Sign-up for project email updates on the website
 - Updates on the design process and construction progress will be posted to the project websiteTY OF MADISON
 - Recording for this meeting will be posted on project webpage