



# City of Greenwood

## Public Informational Meeting W. Miller Street Reconstruction

*Presented by:*

*MSA Professional Services, Inc.*

*Dan Borchardt, Project Manager, P.E.*

*Hashim Chaudhuri, Project Engineer*



# AGENDA

## Project Presentation

- I. Project Background
- II. Proposed Funding Sources
- III. Existing Conditions Review
- IV. Design
- V. Project Cost (Est.)
- VI. Project Schedule
- VII. Discussion Topics

## Questions & Comments

*After the presentation there will be time allowed for all residents to be heard.*

*Please hold all questions and comments until after the Project Presentation.*

*Thank you*

# PROJECT BACKGROUND

## **Project timeline and what steps has the City taken to get to today?**

- ❖ 2021 City identified project for Capital Improvement Project
- ❖ 2021 CDBG Survey
- ❖ 2022 MSA assisted the City with application for CDBG Grant Funds
- ❖ 2023 MSA will complete project design

## **Why reconstruct the roadway?**

- ❖ The roadway has surpassed pavement life (20 Years).
- ❖ Future maintenance costs are not warranted.

# PROPOSED FUNDING SOURCES

## **Project Funding Sources**

- ❖ The City of Greenwood has received CDBG Grants for this project in the amount of \$1M.
- ❖ City plans to apply for Safe Drinking Water (SDW) and Clean Water Funds (CWF) funding for the project in 2023. (Interim financing required to close a loan in 2024.) Amount TBD based on project ranking. Will be determined in Fall 2023.

## **Special Assessments**

- ❖ The City will not consider doing any sort of assessments for roadway improvements.

# EXISTING CONDITIONS

## PURPOSE AND NEED OF THE PROJECT

Why is the City planning the reconstruction of W. Miller Street?

- I. Safety
- II. Existing Roadway
- III. Stormwater Drainage
- IV. Pedestrian Accommodations



# EXISTING CONDITIONS - SAFETY

- ❖ Existing sewer is with clay tile with several repairs (8")
- ❖ Existing watermain is cast iron (6")
- ❖ Safety risks to hydrants should they fail to operate when fire responders need them most; like wise with non-operable water valves
- ❖ Area water main breaks are occurring once a year and are expected to increase in frequency; should this continue, could see long water service outage times
- ❖ Several manholes within the project limits exhibit excessive deterioration of the concrete block and clear water and/or debris/solids present inside the manhole structure. The older block manholes are showing signs of structural failure, excessive leaking through joints, debris are being deposited into the sanitary flow channel, and steps are in an unsafe condition and could cause injury to maintenance personnel
- ❖ Basement flooding and backups could occur if debris continues to be collected in the sanitary flow channel
- ❖ Structural deficiencies exist, providing safety issues to the road above, and flow channels exhibit excessive clear water in the system



# EXISTING CONDITIONS – ROADWAY

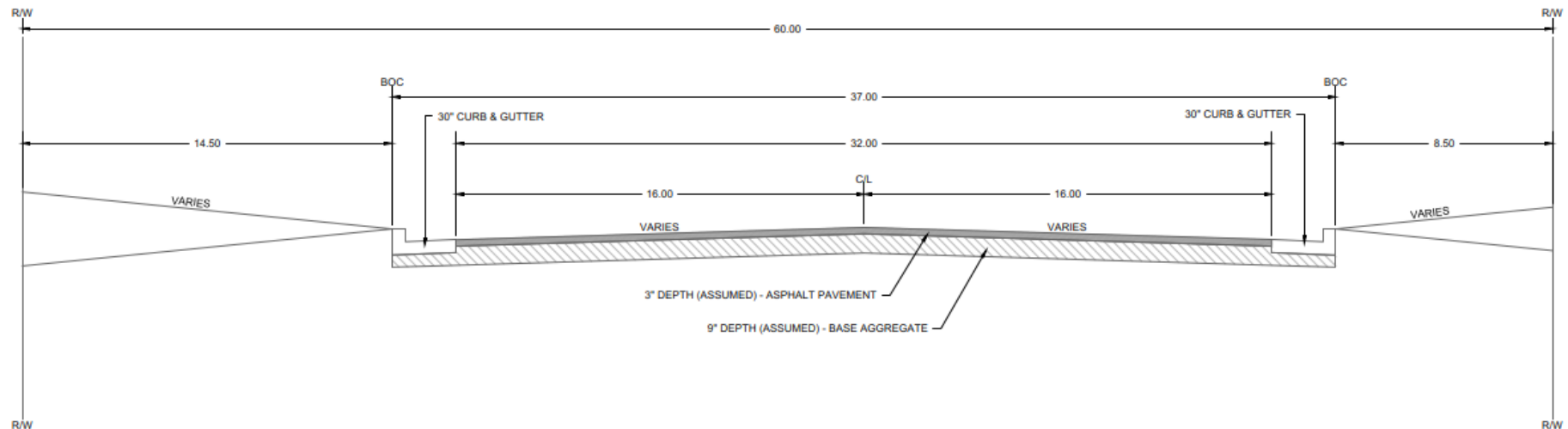
## Pavement Conditions

- Constructed in 1972, and since needed maintenance work and now at point of a full reconstruction
- Pavement (Paser Rating of 3, 1 is considered worst) has significantly deteriorated resulting in poor ride quality, drainage, and frequent maintenance needs
- Several areas of pavement that have longitudinal and transverse cracking/potholes; crack and pothole fills have been frequent
- Ponding water inhibits use of roadway and accelerates deterioration of the roadway by weakening the subgrade soils at the edge of and under the pavement structure



# EXISTING CONDITIONS – ROADWAY – W. MILLER ST, SEGMENT 1

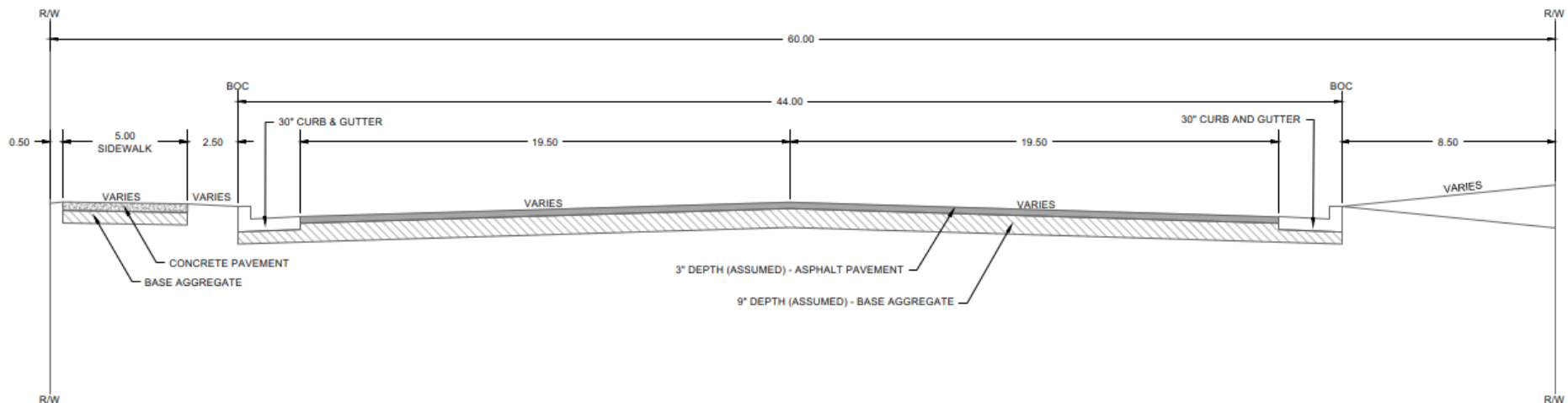
- ❖ Existing Roadway Width (Segment 1 from Reese Ave to Hendren Ave)
  - ❖ 16 Feet (ft) of Driving Lanes
  - ❖ 36 ft Back of Curb to Back of Curb
  - ❖ 3 Foot Paved Shoulders, 2.5ft Curb and Gutter
- ❖ Existing Right-of-Way Width
  - ❖ 60 Feet, centerline not centered on Right-of-Way for Segment 1





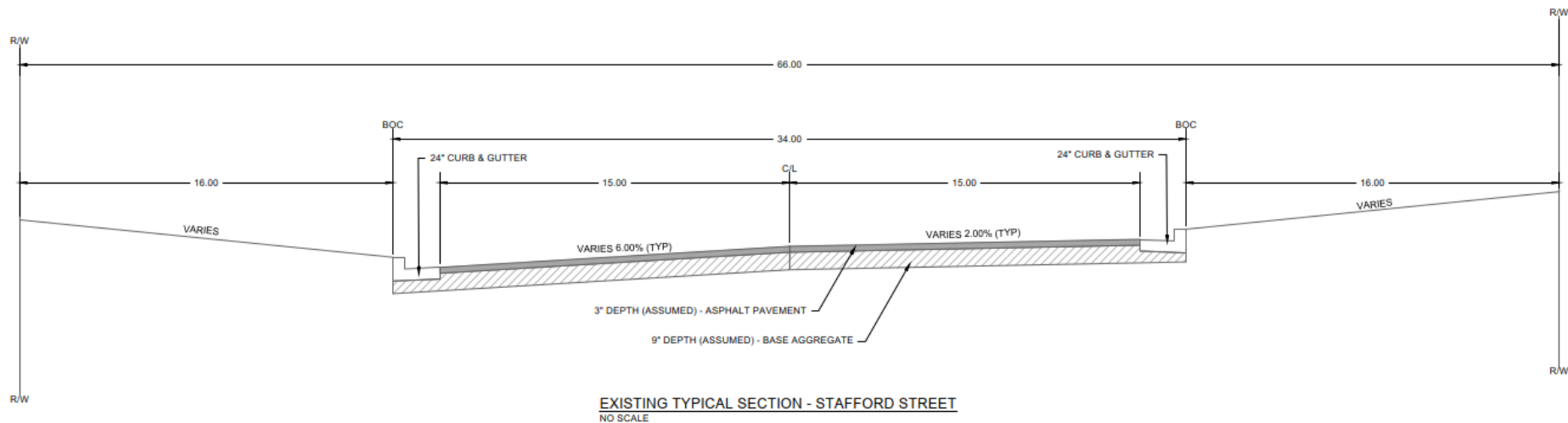
# EXISTING CONDITIONS – ROADWAY – W. MILLER ST, SEGMENT 2

- ❖ Existing Roadway Width (Segment 2 from Hendren Ave to Main St)
  - ❖ 19.5 ft of Driving Lanes with 5 ft sidewalk and 2.50 ft terrace along northern curb line
  - ❖ 44 ft Back of Curb to Back of Curb
  - ❖ 3 Foot Paved Shoulders, 2.5ft Curb and Gutter
- ❖ Existing Right-of-Way Width
  - ❖ 60 Feet, centerline not centered on Right-of-Way for Segment 2



# EXISTING CONDITIONS – ROADWAY – STAFFORD ST

- ❖ Existing Roadway Width
  - ❖ 15.0 Feet (ft) of Driving Lanes
  - ❖ 34 ft Back of Curb to Back of Curb
  - ❖ 3 Foot Paved Shoulders, 2 ft Curb and Gutter
- ❖ Existing Right-of-Way Width
  - ❖ 60 ft, centerline not centered on Right-of-Way



# EXISTING CONDITIONS – STORMWATER DRAINAGE

## Why Improve Stormwater Drainage?

- Lack of drainage accommodations will allow water to pond at the road edge, driveway areas, and pedestrian crosswalk areas. Ponding water in tire paths and along the edge of the roadway creates unsafe conditions and escalates the rate of deterioration.
- Decreases muddy runoff and erosion (south end of Stafford St and outfall to W. Miller St), helping to reduce environmental impact.
- Saturated soils freeze and break up the pavement surface.





# EXISTING CONDITIONS - PEDESTRIAN ACCOMODATIONS



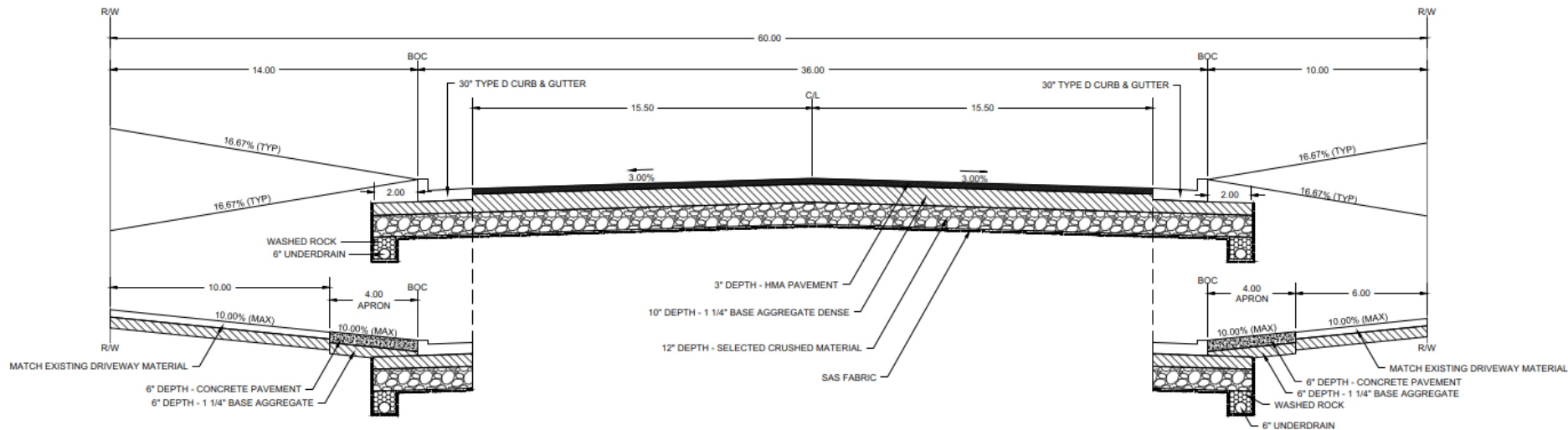


# **DESIGN**

- I. Proposed Typical Sections**
- II. Driveways and Sidewalks**
- III. Proposed Utility Improvements (Sanitary and Water)**
- IV. Proposed Storm Sewer**
- V. Sump Pumps/Roof Drain Connections & Street Underdrain  
Laterals**
- VI. Lift Station Access Road Updates**
- VII. Landscaping and Tree Removals**

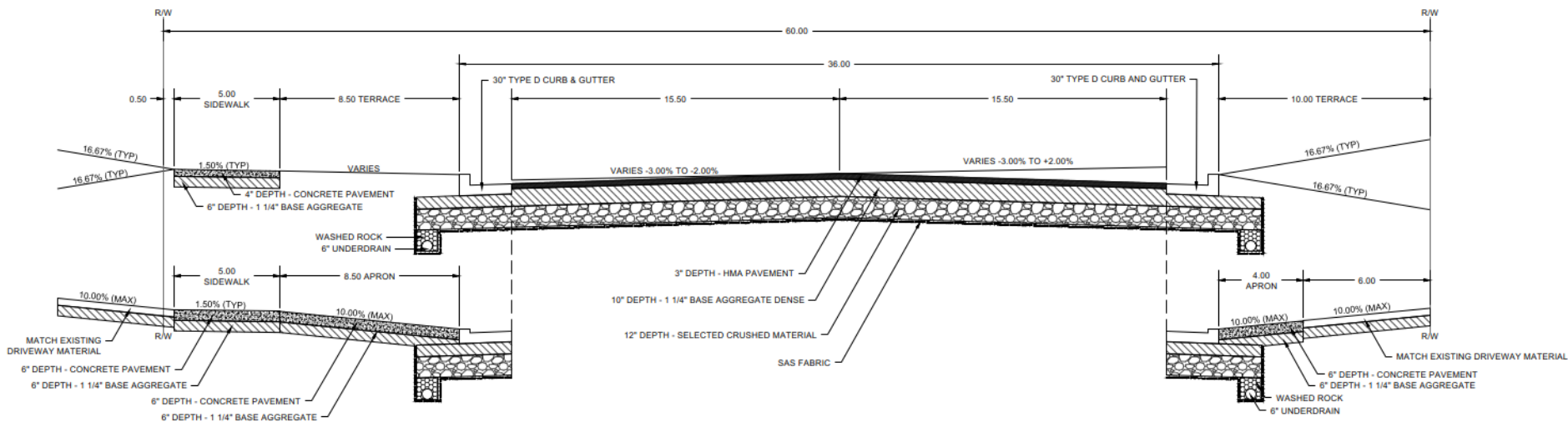
## DESIGN - PROPOSED TYPICAL SECTIONS – W. MILLER ST, REESE TO HENDREN

- Roadway will be parallel to ROW, positioned 10 ft off southern ROW line, and 14 ft off northern ROW line
- W. Miller St will have a consistent width from Reese Ave to Main St at 36 ft wide
- Sidewalk will be replaced along northern curb line from Hendren Ave to Main St
- 3" HMA, 10" Depth - 1 ¼" Base Aggregate, 12" Depth - Selected Crushed, SAS Fabric, and 6" Underdrain (will be consistent on all cross sections except for the lift station access road
- 2.5 ft curb and gutter



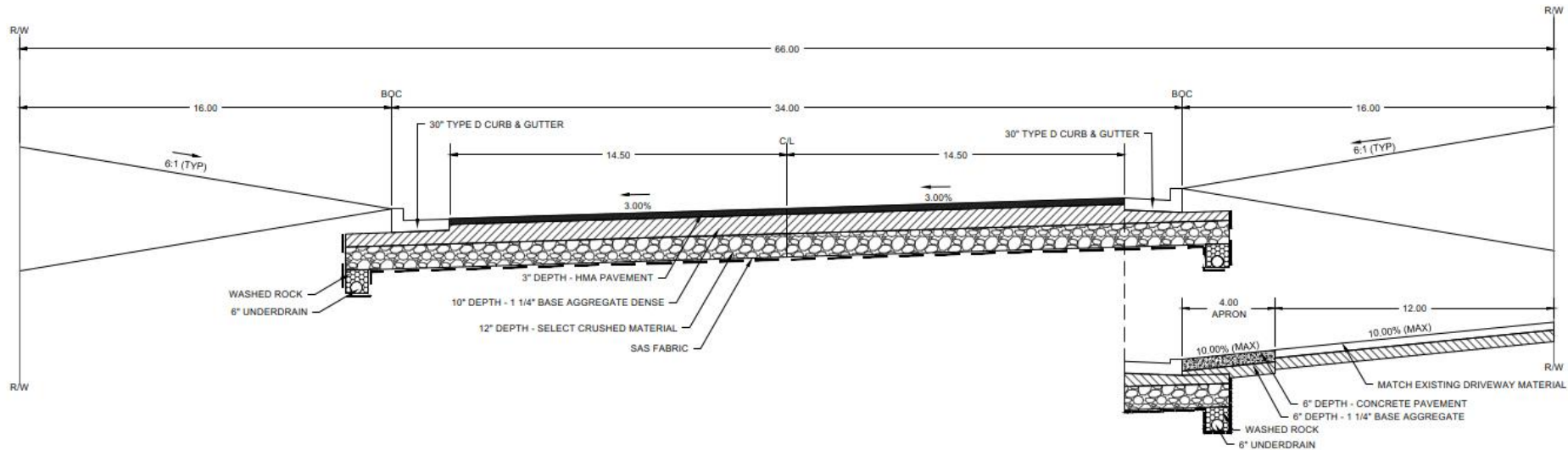
# DESIGN - PROPOSED TYPICAL SECTIONS – W. MILLER ST, HENDREN TO MAIN

- Roadway will be parallel to ROW, positioned 10 ft off southern ROW line, and 14 ft off northern ROW line
- W. Miller St will have a consistent width from Reese Ave to Main St at 36 ft wide
- Sidewalk will be replaced along northern curb line from Hendren Ave to Main St
- 3" HMA, 10" Depth - 1 1/4" Base Aggregate, 12" Depth - Selected Crushed, SAS Fabric, and 6" Underdrain (will be consistent on all cross sections except for the lift station access road)
- 2.5 ft curb and gutter



# DESIGN - PROPOSED TYPICAL SECTIONS – STAFFORD ST

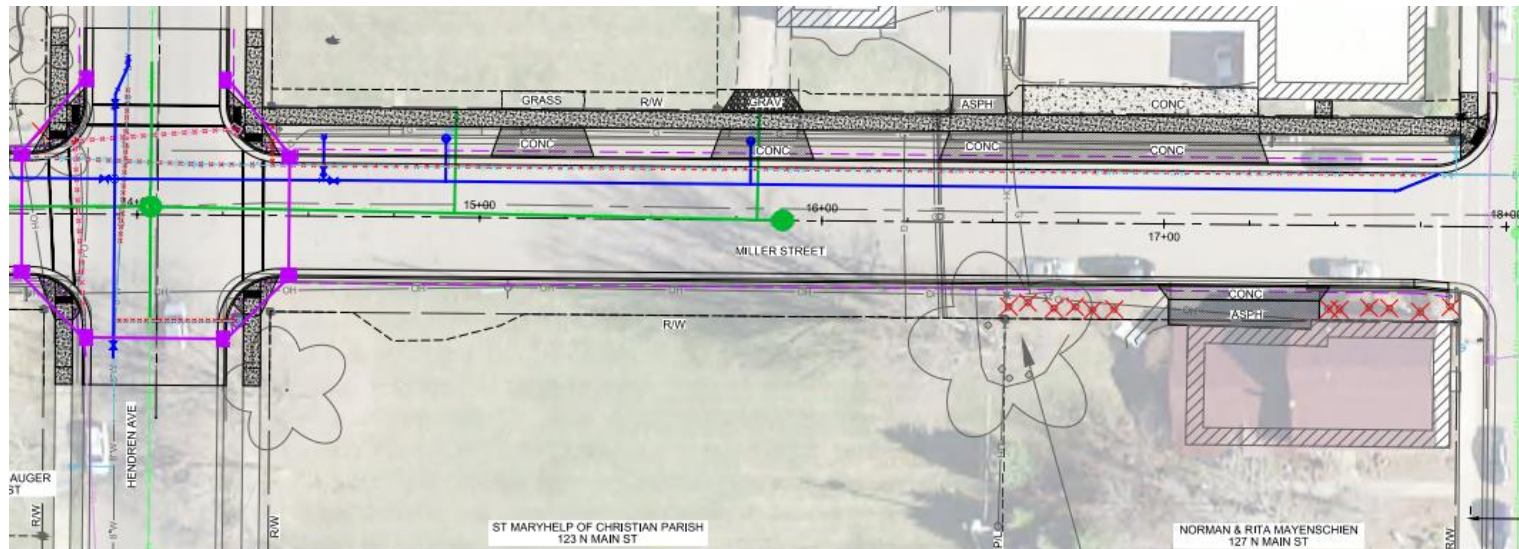
- Stafford St will remain at 34 ft wide
- 3" HMA, 10" Depth - 1 1/4" Base Aggregate, 12" Depth - Selected Crushed, SAS Fabric, and 6" Underdrain (will be consistent on all cross sections except for the lift station access road)
- 2.5 ft curb and gutter





# DESIGN - DRIVEWAYS AND SIDEWALKS

- Residential Driveways: max 24ft wide, max 15% of property frontage
- Commercial Driveways: max 35ft wide
- Property owner will need to go through the City permitting process if they desire wider driveways than currently planned/existing width
- All driveways will be restored to the Right-of-Way/match existing driveway at a max of 10% from the new roadway surface and will have 4ft aprons
- Discuss sidewalk removals; sidewalk on Miller St and Hendren intersection and along north curb line on Miller St from Hendren Ave to Main St. No other sidewalk is planned.



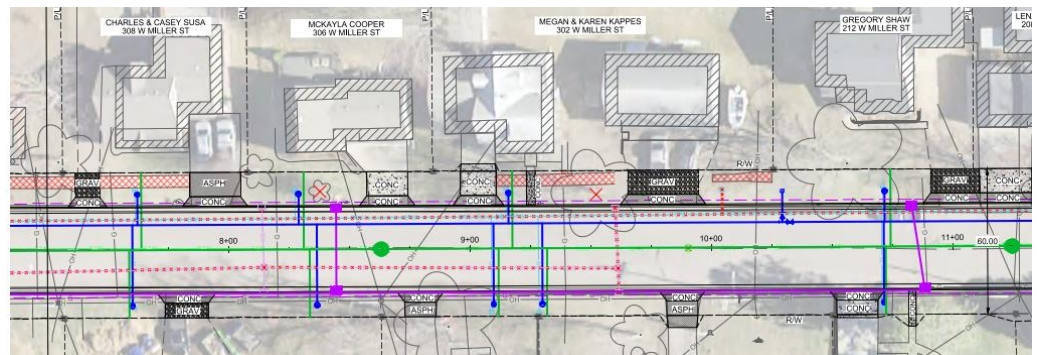
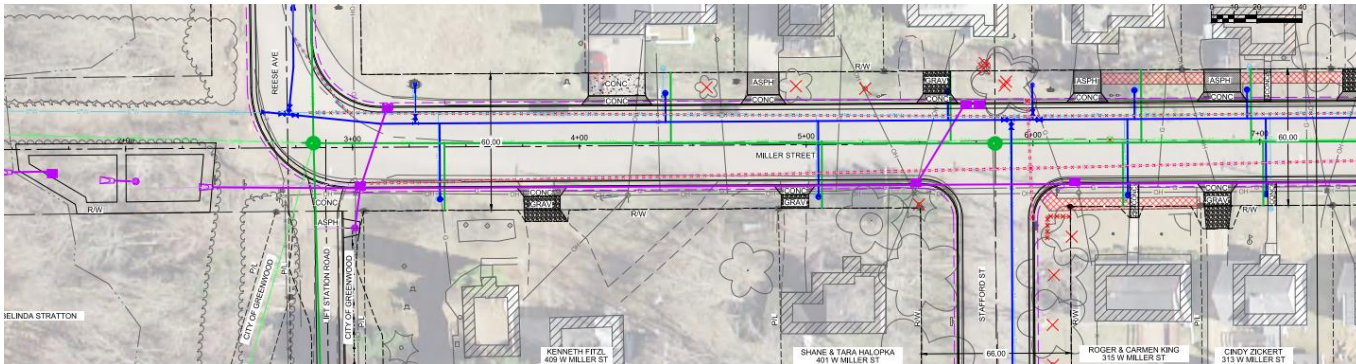
# DESIGN - PROPOSED UTILITY IMPROVEMENTS

- ❖ Sanitary Main and Water Main
  - ❖ Sanitary main and water main will both be 8" PVC
- ❖ Sanitary Sewer and Water Laterals
  - ❖ Est. cost per foot for installed copper service is \$51.00 and \$48.00 for HDPE. Thru wall or floor service connection to the house is estimated at \$750
  - ❖ Est. cost per foot for installed sewer is \$57.00. Thru wall or floor service connection to the house is estimated at \$500.
  - ❖ City will be doing accounting and will bill property owner on tax bill, or it will be a separate invoice
  - ❖ Property owner needs to provide in writing their desire to replace their home service lateral to be replaced to house
  - ❖ Curb stops will be placed 5ft from behind the new Back of Curb; Sanitary laterals will be done up till Right-of-Way



# DESIGN - PROPOSED STORM SEWER

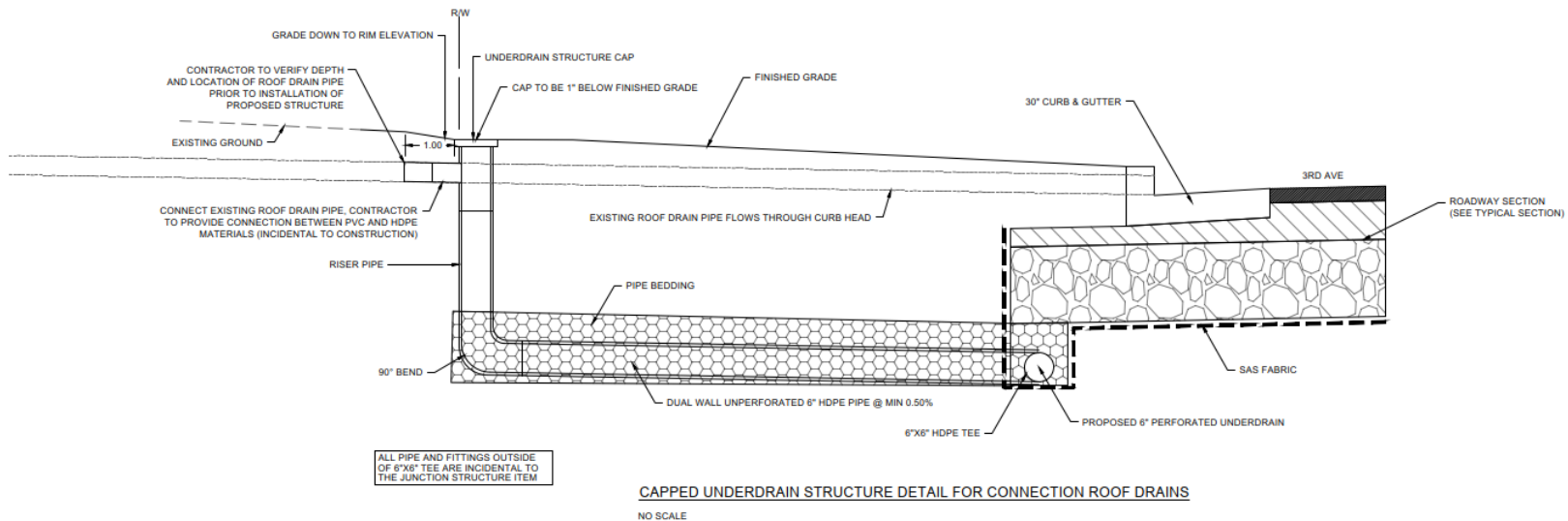
- ❖ Water will be collected in 2x3 plastic inlets and will flow west through 12" HDPE Pipe from around 212 W. Miller St down to the proposed pond at Miller St and Reese Ave
- ❖ Flume to existing ditches are proposed at Reese Ave, sending water north
- ❖ Flume to existing ditches is also proposed on Lift Station Road and Stafford St
- ❖ Storm sewer will be re-done at the Hendren Ave and Miller St intersection and will connect into existing storm sewer on south side





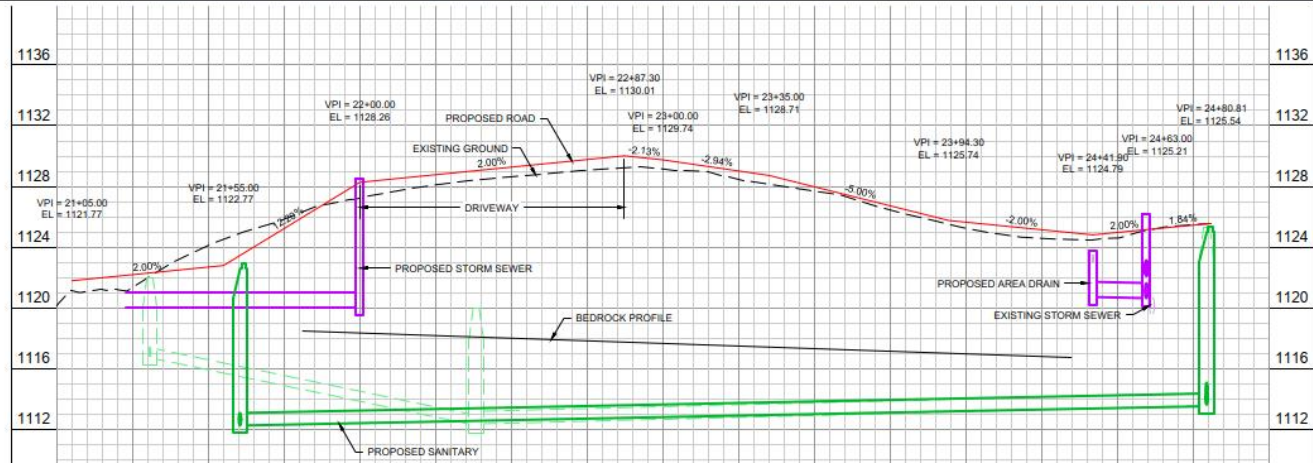
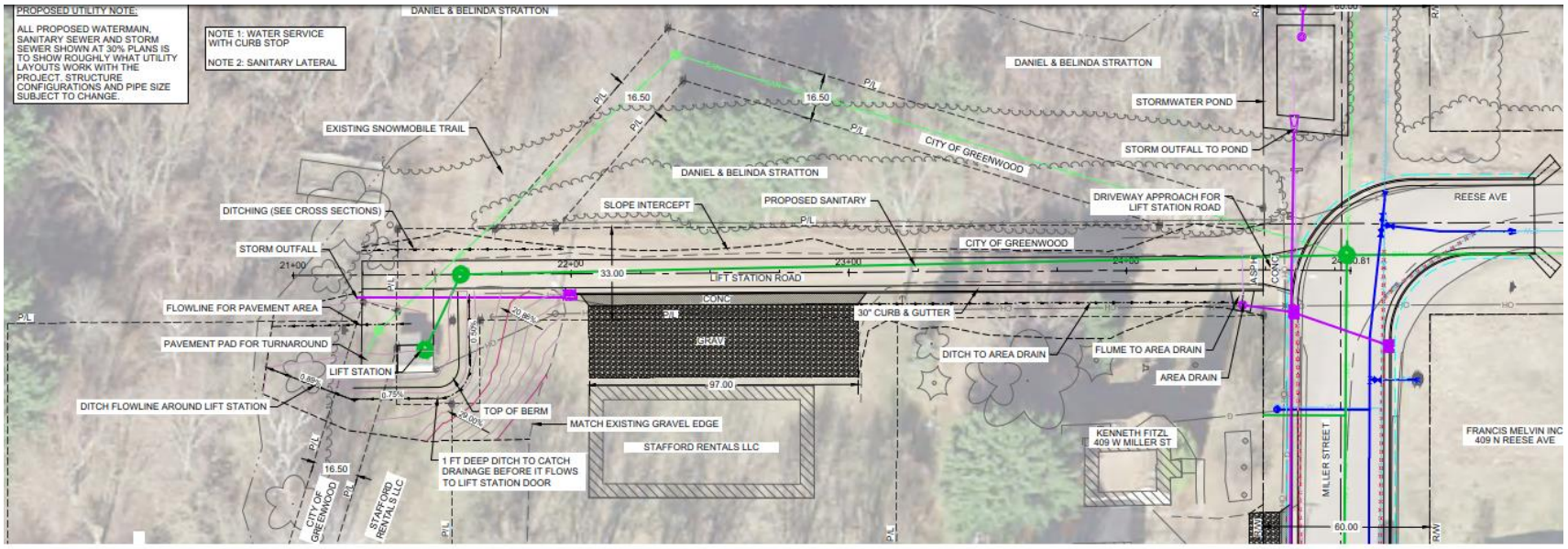
# DESIGN - SUMP PUMPS/ROOF DRAIN CONNECTIONS & STREET UNDERDRAIN LATERAL

- City does not want sump pumps connections to the sanitary sewer. If property owner has that issue now, please let MSA and the City know.
- 6" underdrain runs 2 ft from back of curb, will be placed 3ft deep. Does the property owner want one and if so, location?
- Underdrain carries water from sump pump or roof drain system





# DESIGN - LIFT STATION ACCESS ROAD UPDATES



# DESIGN - LANDSCAPING AND TREE REMOVALS

- ❑ Property owner can request to keep the wood of the tree. Contractor will not cut/split wood to any specific size.
- ❑ Roots of the tree will get damaged during construction. Some trees may be damaged more than others, however, if a property owner wishes to save a tree, there'll be liability. The property owner will need to sign a waiver acknowledging the risk of the tree dying/falling over in writing should it fall over during or after construction. Any expenses resulting from the tree falling over/dying will be paid by property owner.
- ❑ Landscaping in Right-of-Way will be removed and set aside for property. Landscaping outside of the Right-of-Way, if disturbed, will be installed in same location.
- ❑ Property with shrubs in Right-of-Way will have option to salvage the shrub for their replanting



# PROJECT COST (EST.)

<b>PROJECT A: W. MILLER ST RECONSTRUCTION, FROM REESE AVE TO MAIN ST</b>		<b>TOTAL: \$2,449,887.16</b>
1)	Water	\$476,566.21
2)	Sanitary Sewer	\$620,698.81
3)	Storm Sewer	\$360,907.36
4)	Street Reconstruction	\$991,714.78
<b>PROJECT B: LIFT STATION ROAD, REESE AVE TO LIFT STATION</b>		<b>TOTAL: \$101,837.25</b>
1)	Water	\$0.00
2)	Sanitary Sewer	\$49,462.68
3)	Storm Sewer	\$0.00
4)	Street Reconstruction	\$52,374.57

# PROJECT SCHEDULE

DATE	MILESTONE
September 2022	Owner approves Professional Services Agreement
October 2022	MSA begins Survey work
October 2022	Kickoff Meeting to review existing conditions
December 2022	Preliminary Plans
→ January 2023	Public Information Meeting January 25
February 2023	60% Design Meeting February 9-17
March 2023	90% Meeting March 6-10
March 2023	Final Plans March 20 <sup>th</sup>
March 2023	Bidding Ad for Bid 1 March 20 and Ad for Bid 2 March 27
April 2023	Owner awards and executes construction contracts
September 29, 2023	Substantial Completion
October 27, 2023	Final Completion
June 30, 2023	SDWL Application Submittal
September 30, 2023	CWF Application Submittal
December 2023	Project Closeout
January 2024	SDWL and CWF Loan Closing and transition from Interim financing to DNR loans



# DISCUSSION TOPICS

- Not covering today because will be determined upon selection of a contractor, informational letter to come prior to construction
  - Mailboxes
  - Garbage and recycling
  - Access to driveways
  - Construction progression
  - School Bus Service
- Is any property owner aware of any polystyrene insulation/rebar in their driveways? Any carriage walk that bends towards your driveway?
- Does the property owner have a desire for a wider driveway?
- Is any property owner aware of any sump pumps running into the sanitary sewer? Please bring it to MSA's and the City's attention if they are.
- Discuss driveway access during construction and disability accommodations
- Discuss private property owner laterals replacement. 1" Water Service will be \$51/ft Copper/\$48.00/ft HDPE. 6" Sanitary Lateral Service will be \$57/ft PVC.
- Does property owner want any extra work done on their home? If so, they'll need to inform us to give them the contact of the Contractor. Extra work done on homes **will not be included** as an addition to this project, it will be a separate private deal between property owner and Contractor.



QUESTIONS AND COMMENTS

PLEASE EMAIL WRITTEN  
COMMENTS TO

[HCHAUDHURI@MSA-PS.COM](mailto:HCHAUDHURI@MSA-PS.COM)

BY

FEBRUARY 9, 2023



