PLAN:
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CITY OF ANN ARBOR
PUBLIC SERVICES -
ENGINEERING

IN COOPERATION WITH THE
UNIVERSITY OF MICHIGAN

NICHOLS ARBORETUM
SANITARY SEWER LINING

ITB No. 4686, FILE No. 2021-015
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CITY OF ANN ARBOR
PUBLIC SERVICE
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

NOTES:
1. SEE SPECIFICATION FOR CONSTRUCTION NOTIFICATION SIGN REQUIREMENTS.
NOTES:
1. CONTRACTOR PARKING IN ARBORETUM MUST BE APPROVED BY ARBORETUM PERSONNEL.
2. ACCESS INTO THE ARBORETUM IS LIMITED TO THE LOCATIONS SHOWN. PERMITTED ACTIVITIES OTHER THAN CONSTRUCTION ARE RESTRICTED TO THE LOCATIONS SHOWN. ALL QUESTIONS REGARDING SITE ACCESS SHALL BE SUBMITTED TO THE ENGINEER IN WRITING PRIOR TO THE CONTRACTOR TAKING ANY ACTION CONTRARY TO THESE PLANS.
3. THE PRE-PROPOSAL MEETING AND WALK-THROUGH FOR THIS PROJECT IS MANDATORY.
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NICHOLS ARBORETUM SANITARY SEWER LINING
2021-015
ISSUED FOR BID
07-06-2021

SEGMENT 1-PLAN VIEW
PLANNING:

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NICHOLS ARBORETUM SANITARY SEWER LINING
2021-015

SEGMENT 1 PHASE-1
CIPP LINING & BYPASS PUMPING PLAN

SEGMENT 1 PHASE-2
CIPP LINING & BYPASS PUMPING PLAN

SEGMENT 1-BYPASS PUMPING PLAN
C-6
PLAN:
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NOTES
SEGMENT 1 PHASE-1
MAINTENANCE OF TRAFFIC PLAN

SEGMENT 1 PHASE-2
MAINTENANCE OF TRAFFIC PLAN

SEGMENT 1-MAINTENANCE OF TRAFFIC
C7

NICHOLS ARBORETUM SANITARY SEWER LINING
2021-015
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MAINTENANCE OF TRAFFIC PLAN

NOTES
PLAN:

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NICHOLS ARBORETUM SANITARY SEWER LINING
2021-015
07-06-2021

SEGMENT 3-PLAN VIEW

- PLAN VIEW
- WM SUNKET SHUT DUE TO SLOPE
- RM: 880.00
- INVERT ELE: 880.66
- NOT ACCESSIBLE WITH A VEHICLE
- PHOTO LOOKING SOUTHWEST

- PLAN VIEW
- WM SUNKET OFFICE
- RM: 880.00
- INVERT ELE: 880.66
- NOT ACCESSIBLE WITH A VEHICLE
- PHOTO LOOKING SOUTHWEST

- PLAN VIEW
- WM ON A HILL
- SMALL VENT 16"C
- RM: 893.12
- INVERT ELE: 893.53
- NOT ACCESSIBLE WITH A VEHICLE
- PHOTO LOOKING EAST

- PLAN VIEW
- WM ON A HILL
- RM: 880.00
- INVERT ELE: 884.20
- NOT ACCESSIBLE WITH A VEHICLE
- PHOTO LOOKING SOUTHWEST

- PLAN VIEW
- WM SUNKET OFFICE
- RM: 880.00
- INVERT ELE: 884.20
- NOT ACCESSIBLE WITH A VEHICLE
- PHOTO LOOKING SOUTH

- PLAN VIEW
- WM SUNKET OFFICE
- RM: 880.00
- INVERT ELE: 884.20
- NOT ACCESSIBLE WITH A VEHICLE
- PHOTO LOOKING SOUTHEAST
PLAN:

Know what's below.
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NOTES

1. "NOTE: Read the plans before going into the field and be sure to follow all safety procedures as outlined in the plans."
2. "NOTE: Use the plans only as a guide. Always consult with the appropriate engineers and safety personnel before proceeding with any work in the field."
3. "NOTE: All plans should be read in conjunction with the Code of Federal Regulations (CFR)."
4. "NOTE: Always wear appropriate safety gear (e.g., hard hat, safety glasses, and steel-toed boots) when working in the field."
5. "NOTE: The plans are subject to change without notice. Always consult with the appropriate engineering personnel before proceeding with any work in the field."

C-10
SEGMENT 2 PART-1 & SEGMENT 3
CIPP LINING & FLOW MANAGEMENT PLAN
SEGMENT 2(1) & 3- CIPP LINING & FLOW MANAGEMENT PLAN - C10
PLAN:
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SEGMENT 2 (2)- CIPP LINING & FLOW MANAGEMENT PLAN
NOTES-

07-06-2021
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CIPP LINING & FLOW MANAGEMENT PLAN
SEGMENT 3 PART-2
Nichols Arboretum Sanitary Sewer Lining - (CIP) Pipe Repair, Lake St Bridge, 02-06-21 - Mapped 

NOTES:
1. THIS DRAWING IS NOT TO SCALE
2. MEASUREMENTS SHOULD BE MADE FROM THE DRAWING AND NOT FROM THE FIELD
3. CONSTRUCTION LIMITS, ESSENTIAL, AND PERMITTED PUBLIC WORKS DEPARTMENT LIMITS ARE SHOWN IN RED
4. ALL ELEVATIONS ARE SHOWN AS FIELD ELEVATIONS

SCALE 1/2" = 1'0"
MAINTENANCE OF TRAFFIC & ACCESS PLAN

OVERALL MAINTENANCE OF TRAFFIC FOR SEGMENT 2 & 3
(SHOWING RIDGeway ST WEST-MAINTENANCE OF TRAFFIC-SEE NOTE 1)

RIDGEWAY ST EAST-MAINTENANCE OF TRAFFIC-SEE NOTE 1

SEGMENT 2 PART 2 MAINTENANCE OF TRAFFIC

NOTES

1. CONTACT THE PUBLIC SERVICES ENGINEERING AND CITY OF ANN ARBOR FOR MORE INFORMATION.

PRIVATE PROPERTY ACCESS PERMITTED TO LOCAL RESIDENTS ONLY.
SEGMENT 4-PLAN VIEW

NORTH

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NICHOLS ARBORETUM SANITARY SEWER LINING
2021-015
07-06-2021

KEY PLAN

SEGMENT 4-PLAN VIEW

- Plan View
- Key Plan
- Segment Details
- Construction Notes
- Environmental Considerations
- Safety Protocols
- Material Specifications
- Project Timeline

C-13

PUBLIC SERVICES-ENGINEERING - CITY OF ANN ARBOR
NICHOLS ARBORETUM SANITARY SEWER LINING
SEGMENT 4-PLAN VIEW

- Plan View
- Key Plan
- Segment Details
- Construction Notes
- Environmental Considerations
- Safety Protocols
- Material Specifications
- Project Timeline

C-13
PLAN:
- Know what's below.
- Call before you dig.

NOTES:
- SWY 460.02
- RM 786.75
- Private Eel. 787.75
- Photo looking south East

- SWY 462.68
- RM 807.31
- Private Eel. 807.31
- Photo looking north

- SWY 461.34
- RM 807.34
- Private Eel. 807.34
- Photo looking north

- SWY 460.02
- RM 807.24
- Private Eel. 807.24
- Photo looking south East

- SWY 460.02
- RM 807.24
- Private Eel. 807.24
- Photo looking north

- SWY 460.02
- RM 807.24
- Private Eel. 807.24
- Photo looking south East

- SWY 460.02
- RM 807.24
- Private Eel. 807.24
- Photo looking north

- SWY 460.02
- RM 807.24
- Private Eel. 807.24
- Photo looking south East

- SWY 460.02
- RM 807.24
- Private Eel. 807.24
- Photo looking north

- SWY 460.02
- RM 807.24
- Private Eel. 807.24
- Photo looking south East

- SWY 460.02
- RM 807.24
- Private Eel. 807.24
- Photo looking north
SEGMENT 4 & 6 PLAN VIEW

NOTES

1. All easements and encroachments located within the right-of-way are to be reviewed and approved by the City of Ann Arbor prior to construction.

2. All lighting and signage shall be in accordance with the City of Ann Arbor's Standards. Lighting fixtures shall be located at a minimum distance of 10 feet from any overhead or underground utility lines or poles.

3. The Contractor shall be responsible for ensuring that all work is performed in accordance with the City of Ann Arbor's Standards and specifications.

4. All equipment and temporary materials shall be removed from the site at the completion of the project.

5. The Contractor shall be responsible for ensuring the safety of all workers and the public during the course of the project.

6. The Contractor shall be responsible for the construction of all necessary access roads and staging areas.

7. The Contractor shall be responsible for the creation of all necessary construction documents and plans.

8. The Contractor shall be responsible for the installation of all necessary stormwater management systems.

9. The Contractor shall be responsible for the installation of all necessary traffic control measures.

10. The Contractor shall be responsible for the installation of all necessary utility protection and relocation services.

11. The Contractor shall be responsible for the installation of all necessary landscaping and erosion control measures.

12. The Contractor shall be responsible for the installation of all necessary signage and markings.

13. The Contractor shall be responsible for the installation of all necessary lighting and illumination systems.

14. The Contractor shall be responsible for the installation of all necessary maintenance and inspection systems.

15. The Contractor shall be responsible for the installation of all necessary communication systems.

16. The Contractor shall be responsible for the installation of all necessary training and emergency response systems.

17. The Contractor shall be responsible for the installation of all necessary quality control and assurance systems.

18. The Contractor shall be responsible for the installation of all necessary safety and health systems.

19. The Contractor shall be responsible for the installation of all necessary environmental and sustainability systems.

20. The Contractor shall be responsible for the installation of all necessary legal and regulatory systems.
NOTES

PLACE 5X7 REMINDERS OF PLANE AROUND
MIDNIGHT TO AVOID THE CROWDS.

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NICHOLS ARBORETUM SANITARY SEWER LINING
2021-015
07-06-2021

SEGMENT 4(1)-BYPASS PUMPING PLAN
PHASE-2
C17
PLAN:

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NICHOLS ARBORETUM SANITARY SEWER LINING

2021-015

ISSUED FOR BID

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SEGMENT 4 PART-2, 5 PART-2 & 6 PART-1

CIPP LINING & BYPASS PUMPING PLAN

NOTES

SEGMENT 4 PART-2, 5 PART-2 & 6 PART-1

CIPP LINING & BYPASS PUMPING PLAN

NORTH

Scale: 1" = 100'
PLAN:
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NOTES
SEGMENT 6(2)-BYPASS PUMPING PLAN
C20

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07-06-2021
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NICHOLS ARBORETUM SANITARY SEWER LINING
2021-015

MAINTENANCE OF TRAFFIC PLAN

SEGMENT 4 PART 1

MAINTENANCE OF TRAFFIC PLAN

SEGMENT 4(1)-MAINTENANCE OF TRAFFIC - C21
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SEGMENT 5(1)-MAINTENANCE OF TRAFFIC
- C22

MAINTENANCE OF TRAFFIC PLAN

PUBLIC SERVICES-ENGINEERING - CITY OF ANN ARBOR
NICHOLS ARBORETUM SANITARY SEWER LINING
SEGMENT 5(1)-MAINTENANCE OF TRAFFIC
2021-015
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SEGMENT 5 PART-1
MAINTENANCE OF TRAFFIC PLAN
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SEGMENT 6(2)-MAINTENANCE OF TRAFFIC - C24

MAINTENANCE OF TRAFFIC PLAN
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MISC. DETAILS
C25

Temporary Access For Services Puff
Service Puff

Temporary Access For Services Puff With Services Puff Tracks