ADDENDUM No. 1
RFP No. 24-08
S Seventh St. & Greenview Dr. Improvements

Due Date: February 27, 2024 by 11:00 a.m. (local time)

The information contained herein shall take precedence over the original documents and all previous addenda (if any) and is appended thereto. This Addendum includes a total of 110 pages.

The Proposer is to acknowledge receipt of this Addendum No. 1 by signing and submitting attachment B, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

The following forms provided within the RFP Document should be included in submitted proposal:

- Attachment D - Prevailing Wage Declaration of Compliance
- Attachment E - Living Wage Declaration of Compliance
- Attachment G - Vendor Conflict of Interest Disclosure Form
- Attachment H - Non-Discrimination Declaration of Compliance

Proposals that fail to provide these completed forms listed above upon proposal opening may be rejected as non-responsive and may not be considered for award.

I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the RFP documents which are outlined below are referenced to a page or Section in which they appear conspicuously. Offerors are to take note in their review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

<table>
<thead>
<tr>
<th>Section/Page(s)</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Content</td>
<td>Pre-Proposal Meeting Minutes</td>
</tr>
<tr>
<td>Add#1-6 – 8</td>
<td>Fire Hydrant Assembly – tracer wire details changed</td>
</tr>
<tr>
<td>SD_W-1</td>
<td>Precast Gate Well (Water Mains 16 Inch and Smaller) – tracer wire details changed</td>
</tr>
<tr>
<td>SD_W-3</td>
<td>Quantity updates to reflect plan changes</td>
</tr>
<tr>
<td></td>
<td>New pay items:</td>
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<tr>
<td></td>
<td>- 06050.02 - Storm Manhole, 48 In. Dia., Additional Depth</td>
</tr>
<tr>
<td></td>
<td>- 06050.04 - Storm Manhole, 60 In. Dia., Additional Depth</td>
</tr>
<tr>
<td></td>
<td>- 08010.70 – Aggregate Base, 4 In., 21AA, CIP</td>
</tr>
<tr>
<td>Replace Schedule of Prices, 15 – 17</td>
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</tbody>
</table>

RFP 24-08 - Addendum #1

Add#1-1
Removed pay item:
- 08200.71 – DS_Pavt Mrkg, Polyurea, 18 In., White
- 08131.72 – DS_Conc, Sidewalk, Drive Approach, or Ramp, 8 In

Replace Project Schedule and Payment, DS-2 – 4

Contract time and sequencing updated

Grading, DS-5 – 6

Estimated earth excavation quantities added

Replace Plan Set in its entirety Sheet 1 – 92

Sheet 4 and 5: Cross Sections updated to include 4” of aggregate base
Sheet 16: Remove sheet
Sheet 21: Additional curb and driveway approach removal
Sheet 41: R104 changed to 6’ Storm MH
Sheet 52-64: Construction Key Updated
Sheet 52: School driveway approaches changed from 8” to 6” thick
Sheet 55: Sidewalk alignment changed
Sheet 71: Bike lane white lines changed to 6” wide
II. QUESTIONS AND ANSWERS

The following question has been received by the City. The response is being provided in accordance with the terms of the RFP. Bidders are directed to take note of the following questions and City responses in their review of the RFP as they affect work or details in other areas not specifically referenced here.

**Question 1:** Can you provide a quantity for earth excavation to be included in Roadway Grading?

**Answer 1:** Yes, these have been provided in the grading detailed specification.

**Question 2:** Are water services going over or under the storm sewer?

**Answer 2:** The water services will be installed over the storm sewer. The City will perform all the service connections. They can come back out and raise a service to install the storm sewer if needed.

**Question 3:** How will the “Existing aggregate base, supplemented with additional 21AA to finish grade prior to paving or excavate to allow 4 inch HMA section” be paid for?

**Answer 3:** This has been updated on the plans. In areas where the asphalt is to be removed and replaced, 4 inches of aggregate base is now proposed. The existing HMA will be removed at any depth, additional earth excavation of the areas will be included in DS_Roadway Grading,____. The 4 inches of aggregate base will be paid for as “Aggregate Base, 4 In., 21AA, CIP”.

**Question 4:** The 21AA quantity indicates that the entire road gets 8” of aggregate base; this does not match the cross sections. Which is correct?

**Answer 4:** The cross sections are correct. That quantity has been updated.

**Question 5:** How do we find and protect the laterals?

**Answer 5:** It is the contractor's responsibility to locate leads prior to excavation, incidental to the utility.

The exact location and elevations of the laterals are unknown. The CCTV reports and GIS were used to determine where the laterals are on the main. The laterals shown on the plans are drawn from where they were found at the main at a 1% or 2% slope for a 6” or 4” pipe, respectively. They are drawn perpendicularly from the main to the ROW line.

If a lateral is encountered that needs to be lowered under the storm sewer, a 6-inch PVC service lead will be installed from the main at 1% slope until it is clear of the storm sewer. It will then be reconnected with a riser and reducer (as need) to the existing lateral. This will be paid for as “6 In., SDR 26 PVC Sanitary Service Lead, SD-TD-2”.

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Add#1-3
If a lateral is encountered in a trench that does not have to be moved to complete the work, this shall be protected. If it is damaged, the contractor shall repair at their own expense.

Question 6: Can the sanitary main CCTV reports be provided with the addendum?
Answer 6: Yes, the CCTV reports are included in this addendum.

Question 7: Can the CAD files be provided with the addendum?
Answer 7: No, but the CAD files may be provided to the awarded contractor upon request.

Question 8: Is the subbase under the new sidewalk on 7th Street paid for as part of the water main trench backfill or as “Subbase, CIP”?  
Answer 8: All new sidewalk subbase will be paid for as “Subbase, CIP”. This quantity has been updated in the Schedule of Pricing.

Question 9: Can the Lawton Elementary school parking lot and/or the Pioneer High School Nature Area (Greenview and Scio Church) be used as a staging area?
Answer 9: These areas are owned by the Ann Arbor Public Schools; an agreement must be made with them to use the property. Contact Tracy Anderson for the contact information.

Question 10: The MOT plan’s phases do not account for the storm sewer on the water main side being stubbed out and capped before the storm sewer can be completed. How is this to be constructed?
Answer 10: The intent was to maintain local traffic in one direction (southbound) on Seventh and S Greenview to minimize interruption to school traffic. The work does not have to be phased per half of the road; traffic may shift to avoid construction activities as long as one lane of traffic is maintained.

The Maintenance of Traffic plan has been updated to allow for S Seventh and S Greenview to be closed (except for local traffic) outside of the school year. The plans show maintaining one-way traffic for local traffic. Bid as proposed. Contractor may submit an alternative traffic control plan, subject to Engineer’s approval, after award.

Question 11: The quantities for traffic control devices (Plastic Drums and Type III Barricades) are the total for the project, not one road at a time. Is this correct?
Answer 11: The traffic control devices will depend on phasing. All roads may now be under construction at one time, as amended in the Project Schedule and Payment Detailed Specification. These quantities were added as “worst case scenario”.
42" Channelizer cones are included as a contingency amount. The contractor may use channelizer cones INSTEAD of the barrels for traffic control if they choose. The cones shall be placed at the same intervals as the barrels.

Only the traffic control devices used will be paid.

Question 12: How are the water main connections that show new water main in the same location as existing water main (example Lans Way intersection on sheet 28) supposed to be completed and tested?

Answer 12: In areas where the new water main is in the same location as the existing water main, test as much of the new water main as possible without taking the existing main out of service. Once the new main is ready to be connected, the existing main will be shut down and removed. The new main will be swabbed and connected and the existing main will be put back in service, ideally within one day.

The side street connections may be realigned during construction due to unforeseen conditions. The total pipe length and all fittings used will be paid.

Offerors are responsible for any conclusions that they may draw from the information contained in the Addendum.
I. Introductions
   a. Tracy Anderson – Project Manager
   b. Inspection will be by City of Ann Arbor
   c. Construction staking will be by City of Ann Arbor

II. Project Overview
   a. Work components
      i. S Seventh Street
         1. 12” Water main replacement
         2. 12-48” Storm sewer detention north of Greenview
            a. 2 outlet control structures
         3. Widened sidewalk on east side and west side block of school.
         4. Road reconfiguration/resurfacing
            a. Road narrowing 43’ to 30’
            b. East curb is being moved in 13 feet
      ii. S Greenview
          1. 8” Water main replacement
          2. Midblock bump out
          3. Storm catch basin replacements
          4. Road resurfacing
      iii. N Greenview
          1. 8” Water main replacement
          2. 12-48” Storm sewer detention
             a. Two systems (two watersheds)
             b. 3 outlet control structures.
          3. Road reconfiguration/resurfacing
             a. Road narrowing 36’ to 30’
             b. Both curbs are being brought in 3’
             c. Bump outs at every intersection to 24’ wide
   b. Engineer’s estimate - $8.5M

III. General Items
   a. Standard Specifications – NEW
      i. Tracer wire
         1. Updated details will be included in addendum
      ii. Bulkheading manholes is included in sewer removal
   b. Detailed Specifications
      i. Schedule and sequencing
         1. Cannot interrupt services, sequence work accordingly
         2. S 7th must be complete during summer
      ii. Grading
1. Earth excavation is included in grading
   a. Quantity will be provided

iii. Water main abandonment
   1. Paid for once per road to disconnect and properly abandon the water main from side streets
   2. Example: If you remove the abandoned water main to install storm sewer, you have to properly abandon the remaining water main and this will not paid for separately.

iv. Other
   1. Other detailed specs are to clarify pay items, things included in them and materials to use.

c. Misc. construction items
   i. Storm water detention
      1. 5 total Vortex valves
   ii. Curb relocation

d. Accessibility
   i. MOT – Designed for one way traffic in phases
      1. Will look into constructability
   ii. Local Traffic must be maintained
   iii. Lawton Elementary School
      1. Summer: June 13 – August 26

e. Davis Bacon Wage Decisions
   i. 10 days before proposals are due

f. Addendum
   i. Answer all questions received
   ii. Pre-bid meeting minutes
   iii. Updated bid form
      1. Updated excel file can be provided – email Tracy
   iv. Minor plan clarifications/details

IV. Project Schedule
   a. Written Questions due Monday, February 12, 2024 by 12:00PM
   b. Addendum anticipated by Friday, February 16, 2024
   c. Proposal Due, February 27, 2024 by 11:00AM
   d. Anticipated Council Award, April 15, 2024
   e. Construction Start, April 29, 2024

Important items not discussed in the pre-proposal meeting:

- Garbage day is Thursday for these neighborhoods. The contractor will be responsible for making sure that resident carts are able to be picked up weekly. This may include moving them to and from a location that the waste collection truck is able to access them. This cost is incidental to General Conditions.
- Mail service is walked door to door. Contractor shall ensure that USPS has sufficient space to pass to make their daily deliveries.
• Lawton Elementary School has high traffic for pickup and drop off during the school year. This included buses and passenger vehicles for 15-20 minutes in the morning and the afternoon. This traffic must be accommodated during the school year.

Notes by:

Tracy Anderson, PE
Tanderson@a2gov.org
NOTES:

1. ALL D.I.P. PIPE, FITTINGS, AND HYDRANT BARREL TO BE POLYWRAPPED PER AWWA C105.

2. ALL HYDRANTS SHALL HAVE ONE 5" STORZ CONNECTION AND ONE 3 3/8" THREADED PUMPER CONNECTION.
NOTES:

1. PRECAST MANHOLE PER ASTM C-478.

2. REINFORCING IN WALLS TO BE ONE LAYER OF 2" X 8" W3/W2.9 WELDED WIRE MESH. CIRCUMFERENTIAL REINFORCEMENT = 0.18 SQ. IN./VERT. FT.

3. BASE SLAB TO BE REINFORCED WITH ONE LAYER OF #4 REBAR AT 12" C-C, E.W. AREA/STEEL = .20 SQ. IN./FT E.W.
### E. Schedule of Pricing/Cost – 20 Points

**Company:**

**Project:** S Seventh and Greenview Improvements  
**File #: 2020-031**  
**RFP#: 24-08**

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### Storm and Drainage

| Code     | Description                                      | Units | Quantity | Cost  
|----------|--------------------------------------------------|-------|----------|-------
| 0600.01  | 12 In., CL IV RCP Storm Sewer, SD-TD-1           | Ft    | 1,816.00 | $       |
| 0600.02  | 18 In., CL IV RCP Storm Sewer, SD-TD-1           | Ft    | 115.00   | $       |
| 0600.03  | 24 In., CL IV RCP Storm Sewer, SD-TD-1           | Ft    | 290.00   | $       |
| 0600.04  | 36 In., CL IV RCP Storm Sewer, SD-TD-1           | Ft    | 100.00   | $       |
| 0600.05  | 48 In., CL IV RCP Storm Sewer, SD-TD-1           | Ft    | 1,200.00 | $       |
| 0605.01  | DS_Storm Manhole, 48 In. Dia. (0'‐8' deep)       | Ea    | 3.00     | $       |
| 0605.02  | Storm Manhole, 48 In. Dia., Additional Depth     | Ft    | 1.89     | $       |
| 0605.03  | Storm Manhole, 60 In. Dia. (0'‐8' deep)          | Ea    | 1.00     | $       |
| 0605.04  | Storm Manhole, 60 In. Dia., Additional Depth     | Ft    | 2.65     | $       |
| 0605.05  | Storm Manhole, 72 In. Dia. (0'‐8' deep)          | Ea    | 6.00     | $       |
| 0605.06  | Storm Manhole, 72 In. Dia., Additional Depth     | Ft    | 18.51    | $       |
| 0606.01  | DS_Storm Inlet‐Junction, 36 In. Dia., (0'‐8' deep)| Ea  | 1.00     | $       |
| 0606.02  | DS_Storm Inlet‐Junction, 48 In. Dia., (0'‐8' deep)| Ea  | 4.00     | $       |
| 0606.03  | DS_Storm Inlet‐Junction, 72 In. Dia., (0'‐8' deep)| Ea  | 7.00     | $       |
| 0606.04  | Storm Inlet‐Junction, 72 In. Dia., Additional Depth| Ft  | 16.00    | $       |
| 0607.01  | DS_Storm Single Inlet, 24 In. Dia., (0'‐8' deep) | Ea    | 30.00    | $       |
| 0607.02  | Storm Single Inlet, 24 In. Dia., Additional Depth| Ft    | 4.50     | $       |
| 0608.01  | Storm High Capacity Inlet, 48 In. Dia., (0'‐8' deep)| Ea  | 12.00    | $       |
| 0608.02  | Storm High Capacity Inlet, 48 In. Dia., Additional Depth| Ft  | 6.50     | $       |
| 0609.01  | DS_Storm Manhole with Weir, 72 In. Dia. (0'‐8' deep)| Ea  | 5.00     | $       |
| 0609.02  | Storm Manhole with Weir, 72 In. Dia., Additional Depth| Ft  | 8.70     | $       |
| 0610.01  | DS_Storm Manhole Over Existing ("Doghouse"), 48 In. Dia. | Ea  | 3.00     | $       |
| 0610.02  | DS_Storm Manhole Over Existing ("Doghouse"), 72 In. Dia. | Ea  | 2.00     | $       |
| 0612.00  | Storm Sewer Pipe, 12 In. Dia., Rem               | Ft    | 825.00   | $       |
| 0614.00  | Storm Sewer Structure, Rem                      | Ea    | 9.00     | $       |
| 0615.00  | Storm Sewer Drop Structure, Rem                 | Ea    | 20.00    | $       |
| 0616.01  | Storm Structure Cover                           | Ea    | 22.00    | $       |
| 0616.02  | Storm Structure Cover, Adjust                    | Ea    | 22.00    | $       |
| 0618.01  | Underdrain, Edge, 6 in.                         | Ft    | 1,750.00 | $       |

### Water Mains

| Code     | Description                                      | Units | Quantity | Cost  
|----------|--------------------------------------------------|-------|----------|-------
<p>| 0700.02  | 6 In., PC 350 DIP w/polywrap, SD-TD-1            | Ft    | 60.00    | $       |
| 0700.03  | 8 In., PC 350 DIP w/polywrap, SD-TD-1            | Ft    | 4,130.00 | $       |
| 0700.05  | 12 In., PC 350 DIP w/polywrap, SD-TD-1           | Ft    | 1,750.00 | $       |
| 0701.01  | 8 In. 90° DIP Bend                                | Ea    | 8.00     | $       |
| 0701.02  | 8 In. 45° DIP Bend                                | Ea    | 14.00    | $       |
| 0701.03  | 8 In. 22.5° DIP Bend                              | Ea    | 11.00    | $       |
| 0701.04  | 8 In. 11.25° DIP Bend                             | Ea    | 4.00     | $       |
| 0701.05  | 12 In. 45° DIP Bend                              | Ea    | 2.00     | $       |
| 0701.06  | 12 In. 11.25° DIP Bend                            | Ea    | 4.00     | $       |
| 0702.03  | 8 In. X 6 In. DIP Reducer                         | Ea    | 19.00    | $       |
| 0702.04  | 12 In. X 6 In. DIP Reducer                        | Ea    | 1.00     | $       |
| 0703.01  | 8 In. X 8 In. X 8 In. DIP Tee                     | Ea    | 14.00    | $       |
| 0703.10  | 12 In. X 12 In. X 8 In. DIP Tee                   | Ea    | 8.00     | $       |
| 0703.15  | 12 In. X 12 In. X 12 In. DIP Tee                  | Ea    | 3.00     | $       |
| 0705.01  | DS_Gate Valve in Box, 8 In.                       | Ea    | 5.00     | $       |
| 0705.02  | DS_Gate Valve in Box, 12 In.                      | Ea    | 4.00     | $       |
| 0706.01  | DS_Gate Valve in Well, 8 In.                      | Ea    | 7.00     | $       |
| 0706.02  | DS_Gate Valve in Well, 12 In.                     | Ea    | 5.00     | $       |
| 0708.00  | Excavate &amp; Backfill For Water Service Tap and Lead| Ft    | 1,200.00 | $       |
| 0710.00  | Fire Hydrant Assembly, Complete                   | Ea    | 13.00    | $       |</p>
<table>
<thead>
<tr>
<th>Code</th>
<th>Item Description</th>
<th>Unit</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Total Price</th>
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<tr>
<td>07102.00</td>
<td>Fire Hydrant Assembly, Rem</td>
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<td>Sacrificial Anode, 17-pound</td>
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<td>07110.02</td>
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<td>07120.00</td>
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<td>07121.00</td>
<td>Curb Box, Adjust</td>
<td>Ea</td>
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<tr>
<td>07130.01</td>
<td>Temporary Water Main Line Stop, 8 In. or less</td>
<td>Ea</td>
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<tr>
<td>07130.03</td>
<td>Temporary Water Main Line Stop, 12 In.</td>
<td>Ea</td>
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<td>07131.00</td>
<td>Temporary Water Main Line Stop, Additional Rental Day</td>
<td>Ea</td>
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<td>07141.71</td>
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<tr>
<td>07141.72</td>
<td>DS_Water Main Pipe, Abandon, Modified, S Greenview Dr</td>
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<td>07141.73</td>
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<td>07160.02</td>
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<td>07180.05</td>
<td>Gate Valve in Well, 12 In. Dia., Abandon</td>
<td>Ea</td>
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<td>08000.00</td>
<td>Streets, Driveways, &amp; Sidewalks</td>
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<tr>
<td>08000.00</td>
<td>Subbase, CIP</td>
<td>Cyd</td>
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<td>Aggregate Base, 4 In., 21AA, CIP</td>
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<td>2,745.00</td>
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<tr>
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<td>Hand Patching</td>
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<td>08070.14</td>
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<td>08110.00</td>
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<td>08120.01</td>
<td>Conc, Driveway Opening, Type M</td>
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<td>08130.01</td>
<td>Conc, Sidewalk, 4 In.</td>
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<td>08131.71</td>
<td>DS_Conc, Sidewalk, Drive Approach, or Ramp, 6 In.</td>
<td>Sft</td>
<td>17,560.00</td>
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<td>08150.00</td>
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<tr>
<td>08180.04</td>
<td>Pavt Mrkg, Ovly Cold Plastic, Sharrow Sym</td>
<td>Ea</td>
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<tr>
<td>08200.01</td>
<td>Pavt Mrkg, Polyurea, Bike, Large Sym</td>
<td>Ea</td>
<td>1.00</td>
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<tr>
<td>08200.06</td>
<td>Pavt Mrkg, Polyurea, 12 In., Cross Hatching, Yellow</td>
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<td>08200.07</td>
<td>Pavt Mrkg, Polyurea, 12 In., Crosswalk</td>
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<td>08200.09</td>
<td>Pavt Mrkg, Polyurea, 24 In., Stop Bar</td>
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<td>08200.13</td>
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<td>08200.15</td>
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<td>DS_Pavt Mrkg, Polymer Cement, Green, Bike Lane</td>
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<tr>
<td>10000.02</td>
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<tr>
<td>10050.00</td>
<td>Underground Sprinkling System, Restore</td>
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<td>10060.00</td>
<td>Turf Restoration</td>
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<td><strong>Total Estimated Cost</strong></td>
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<td>17,084.00</td>
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</tbody>
</table>
Description

Examination of Plans, Specifications, and Work Site

Bidders shall carefully examine the Bid Form, plans, specifications, and the work site until the Bidder is satisfied as to all local conditions affecting the contract and the detailed requirements of construction. The submission of the bid shall be considered prima facie evidence that the Bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and all requirements of the Contract.

The entire work under this Contract shall be completed in accordance with, and subject to, the scheduling requirements as outlined below, and all other requirements of the Contract Documents.

1. The Contractor shall begin the work of this project on or before April 29, 2024, and only upon receipt of the fully executed Contract and Notice to Proceed. Appropriate time extensions shall be granted if the Notice to Proceed is delayed beyond this date.

2. This Contract requires water main, storm sewer, sidewalk, road resurfacing and turf establishment, in three (3) locations: S Seventh Street (Delaware to Scio Church), S Greenview (S Seventh to Scio Church), and N Greenview (Scio Church to Stadium) and shall be substantially complete by November 15, 2024.

3. S Seventh Street and S Greenview Drive shall be base paved by August 26, 2024. Top course paving shall not take place on a weekday after August 26, 2024.

4. Contractor shall maintain at least one-way, southbound traffic through S Seventh and S Greenview until the last day of school (approx. June 13, 2024). After school is out for the summer, the road may be closed to through traffic, but must remain open to local traffic.

5. Contractor shall maintain access for local traffic and shall maintain a drivable surface in all proposed roadways where not actively working.

6. Contractor shall sequence the water and storm sewer installation in a way that does not interrupt service of other utilities.

7. Contractor shall provide all necessary sewer flow control to maintain flow at all existing sewer crossings, connections and lead transfers.

8. No work shall be performed during Holiday weekends as follows, unless approved by the City of Ann Arbor:
   - Memorial Day, from 3:00 p.m. Friday May 24, 2024, through 7:00 a.m. Tuesday May 28, 2024
   - Fourth of July, from 3:00 p.m. Wednesday July 3, 2024, through 7:00 a.m. Friday July 5, 2024
• Labor Day, from 3:00 p.m. Friday August 30, 2024 through 7:00 a.m. Tuesday September 3, 2024

9. No work shall be performed during University of Michigan home football games.

City Council approval is expected on or before April 15, 2023. The Contractor shall not begin the work without approval from the Project Engineer, and in no case before the receipt of the Notice to Proceed.

Contractor will be furnished with two (2) copies of the Contract, for his/her execution, before the aforementioned City Council meeting. The Contractor shall properly execute both copies of the Contract and return them, with the required Bonds and Insurance Certificate, to the City within ten (10) days.

Time is of the essence in the performance of the work of this contract. The Contractor is expected to mobilize sufficient personnel and equipment and work throughout all authorized hours to complete the project by the final completion date. Should the Contractor demonstrate that they must work on some Sundays in order to maintain the project schedule, they may do so between the hours of 9:00 a.m. and 5:00 p.m. with prior approval from the City. There will be no additional compensation due to the Contractor for work performed on Sundays.

Prior to the start of any construction, the Contractor shall submit a detailed schedule of work for the Engineer's review and approval. Work shall not be started until a schedule is approved in writing by the Engineer. The proposed schedule must fully comply with the scheduling requirements contained in this Detailed Specification. The Contractor shall update the approved work schedule upon request by the Engineer and present it to the Engineer within seven days of said request.

Liquidated Damages

Failure to complete all work as specified herein within the times specified herein, including time extensions granted thereto as determined by the Engineer, shall entitle the City to deduct from the payments due the Contractor, $2,000.00 in Liquidated Damages, and not as a penalty, for delays in the completion of the work for each and every calendar day beyond the times for each sub-phase, as required by this Detailed Specification.

Liquidated Damages will be assessed until the required work is completed in the current construction season. If, with the Engineer's approval, work is extended beyond seasonal limitations, the assessment of Liquidated Damages will be discontinued until the work is resumed in the following construction season.

Measurement and Payment

If the construction Contract is not completed by the specified dates, including any extensions of time granted thereto, at the sole discretion of the City of Ann Arbor, this Contract may be terminated with no additional compensation due to the Contractor, and the Contractor may be
forbidden to bid on future City of Ann Arbor projects for a period of at least three (3) years. If the Engineer elects to terminate the Contract, Contract items paid for on a Lump Sum basis shall be paid up to a maximum percentage equal to the percentage of the Contract work that has been completed.

Costs for the Contractor to organize, coordinate, and schedule all of the work of the project, will not be paid for separately, but shall be included in the bid price of the Contract Item “General Conditions, Max $________”.
Description

This work shall consist of furnishing all labor, tools, equipment, and material to shape and prepare all subgrade, subbase, and/or base layers to remain to grades and cross sections indicated on the Plans or as directed by the Engineer. This work shall be performed in accordance with 2024 Public Services Standard Specifications Article 10, Section III.G., except as specified herein.

Construction

Access to driveways and entrances may be permitted to be temporarily interrupted provided the Contractor provides at least 24 hours advanced notification to the property owners/tenants and schedules the work to minimize the duration of the interruption.

After all associated removals, the remaining subgrade, subbase, or aggregate base course shall be shaped and prepared to the grades and cross-sections indicated on the plans, including earth excavation, removal, and offsite disposal of any surplus material.

The remaining course shall be proof rolled. All other work (such as undercutting) shall be performed to prepare for the placement of the subsequent course and must be approved by the Engineer.

The contractor shall hone the grade of the final course of subbase or aggregate base for placement of concrete or HMA to the to the grades and cross-sections indicated on the plans.

Table 1 depicts estimated excavation volumes, outside of utility trenches, in the described locations. These volumes were calculated from the existing surface to the proposed subgrade under the proposed base. The volumes of asphalt and concrete removal (paid for separately) ARE included in these calculations.

<table>
<thead>
<tr>
<th>Location</th>
<th>Est. Excavation Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roadway Grading_S Seventh St.</td>
<td>3,490 CY</td>
</tr>
<tr>
<td>Roadway Grading_S Greenview Dr</td>
<td>1,185 CY</td>
</tr>
<tr>
<td>Roadway Grading_N Greenview Dr</td>
<td>4,270 CY</td>
</tr>
<tr>
<td>Grading_Sidewalk (S Seventh St)</td>
<td>440 CY</td>
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Measurement And Payment

The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

<table>
<thead>
<tr>
<th>Pay Item</th>
<th>Pay Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS_Sidewalk Grading</td>
<td>Square Yards</td>
</tr>
<tr>
<td>DS_Driveway Grading</td>
<td>Square Yards</td>
</tr>
<tr>
<td>DS_Roadway Grading, _____</td>
<td>Square Yards</td>
</tr>
</tbody>
</table>

**DS_Sidewalk Grading** will be measured in the unit above for the area of required subbase or aggregate base for new sidewalk and new sidewalk ramps. This item shall be paid when final grading of the subbase or aggregate base is complete.

**DS_Driveway Grading** will be measured in the unit above for the area of required aggregate base for new driveways, including new sidewalk through driveways. This item shall be paid when final grading of the aggregate base is complete.

**DS_Roadway Grading, _____** will be measured in the unit above for the area disturbed to construct the associated roadway and any new curb. Area will be measured from the edge of metal of remaining curb to 1 foot beyond the back of new curb. This item shall be paid when final grading of the base is complete.

Areas where the existing grade is to be cut to achieve the proposed subgrade elevation (cut-sections) will not be paid for separately. The removal and offsite disposal of cut-section materials required to meet specified grades and cross sections shall be included in **DS_ _____ Grading, ______.**

Removal of pavement, curb, sidewalk, driveways, and ramps; trench backfill, subgrade undercuts; placement and compaction of subbase and aggregate base; and turf establishment shall be paid as part of separate pay items.
This project includes water main replacement, storm water management improvements, road-narrowing, new sidewalk, and resurfacing within the limits of disturbance of S Seventh Street from Delaware Dr. to Scio Church Rd. (0.3 miles) and [N] Greenview Dr. from Scio Church Rd. to W Stadium Blvd. (0.5 miles). It also included water main replacement and resurfacing with the limits of disturbance of [S] Greenview Dr. from S Seventh Dr. to Scio Church Rd. (0.2 miles). Call before you dig.

www.a2gov.org

© CITY OF ANN ARBOR PUBLIC SERVICE - ENGINEERING

P.O. BOX 8647
ANN ARBOR, MI 48107-8647

TRACY ANDERSON, P.E. - MI LICENSE No. 6201065162

PROJECT MANAGER

PUBLIC SERVICES

http://www.a2gov.org

Call before you dig.

NORTH

VICINITY MAP
CONSTRUCTION NOTES:

1. South Seventh Street benchmarks:
   - BM #1: 927.02, U.S. Spring Siding Point, west side of Greenview at the northwest corner of S. Seventh Street and S. Eat Market Road.
   - BM #2: 925.06, U.S. Spring Siding Point, east side of Greenview at the northwest corner of S. Seventh Street and S. Eat Market Road.
   - BM #3: 928.12, U.S. Spring Siding Point, west side of Greenview at the northwest corner of S. Seventh Street and S. Eat Market Road.
   - BM #4: 923.43, U.S. Spring Siding Point, east side of Greenview at the northwest corner of S. Seventh Street and S. Eat Market Road.
   - BM #5: 927.61, U.S. Spring Siding Point, west side of Greenview at the northwest corner of S. Seventh Street and S. Eat Market Road.
   - BM #6: 914.35, U.S. Spring Siding Point, east side of Greenview at the northwest corner of S. Seventh Street and S. Eat Market Road.

2. Greenview Drive (South) benchmarks:
   - BM #1: 927.34, U.S. Spring Siding Point, west side of Greenview at the northwest corner of S. Seventh Street and S. Eat Market Road.
   - BM #2: 927.95, U.S. Spring Siding Point, west side of Greenview at the northwest corner of S. Seventh Street and S. Eat Market Road.
   - BM #3: 930.05, U.S. Spring Siding Point, west side of Greenview at the northwest corner of S. Seventh Street and S. Eat Market Road.
   - BM #4: 931.98, U.S. Spring Siding Point, west side of Greenview at the northwest corner of S. Seventh Street and S. Eat Market Road.
   - BM #5: 940.18, U.S. Spring Siding Point, east side of Greenview at the northwest corner of S. Seventh Street and S. Eat Market Road.
   - BM #6: 949.88, U.S. Spring Siding Point, east side of Greenview at the northwest corner of S. Seventh Street and S. Eat Market Road.
   - BM #7: 953.38, U.S. Spring Siding Point, east side of Greenview at the northwest corner of S. Seventh Street and S. Eat Market Road.

3. Permits required to be obtained by the contractor prior to the beginning of construction:
   - LM.S.CA.00.15430
   - LM.S.CA.00.15431
   - LM.S.CA.00.15432
   - LM.S.CA.00.15433

4. Contact information:
   - Public Utilities Owner: City of Ann Arbor Public Works
   - Private Utilities Owner: City of Ann Arbor

5. Construction notes:
   - All streets shall be kept open to traffic during construction.
   - The contractor shall be responsible for the temporary road and utility work.
   - The contractor shall be responsible for all work performed on the public streets.
   - The contractor shall be responsible for all work performed on the public streets.
   - The contractor shall be responsible for all work performed on the public streets.
   - The contractor shall be responsible for all work performed on the public streets.

6. Permits required to be obtained by the city of Ann Arbor prior to the beginning of construction:
   - LM.S.CA.00.15430
   - LM.S.CA.00.15431
   - LM.S.CA.00.15432
   - LM.S.CA.00.15433
GREENVIEW DRIVE (SOUTH) - MIDBLOCK
TYPICAL SECTION

GREENVIEW DRIVE (SOUTH)
TYPICAL SECTION
MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO ADDITIONAL COST TO THE PROJECT.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR.

COORDINATE THIS WORK WITH THE ENGINEER A MINIMUM OF 72 HOURS (NOT INCLUDING WEEKENDS & HOLIDAYS) PRIOR TO THE BEGINNING OF WORK THAT REQUIRES A SIDEWALK CLOSURE.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE TPAR COMPLIANT. THE SYMBOL OF TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

WHEN DIRECTED BY THE ENGINEER, OR STATED ON THE PLANS, THE CONTRACTOR SHALL SCHEDULE AND PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE.


%',"
MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING
DEVICES SHALL BE DELINEATED WITH FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO
POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM
FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT
PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR.
PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO
MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO
GENERAL NOTES
WHEN CLOSING OF OVERTAKING CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL
CONTROL DEVICE IS REDUCED ENOUGH TO CREATE A HAZARD, THE TRAFFIC CONTROL
OF TRAFFIC CONTROL DEVICES HAS CAUSED A SITUATION THAT THE VISIBILITY OF A TRAFFIC
CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.
COORDINATE THIS WORK WITH THE ENGINEER A MINIMUM OF 72 HOURS (NOT INCLUDING
OR DEACTIVATED BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SCHEDULE AND
COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED. PROVIDE A
CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.
WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL
WHEN THE ENGINEER DETERMINES THAT THE CONTRACTOR'S OPERATIONS OR PLACEMENT
OF WORK ZONES HAS BEEN DETERMINED TO BE TPAR COMPLIANT. THE SYMBOL OF
THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE DISPLAYED WHEN ANY WALKWAY
ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE
PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHALL
REPORTING HAZARDS.
INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING
AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR
REQUIRED IF CROSSING A MINOR ROAD OR COMMERCIAL DRIVEWAY.
NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED SPEED OF 45 MPH OR LESS.
CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

 Protection to edges with a 2.5" MIN. HEIGHT AROUND THE RAMPS IS PLACED WHERE
 CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 6" OR MORE FOR OUR 1:3
 SLOPE GR A S S T R E E P T E R . P R O T E C T I V E 2.5" MIN. HEIGHT ABOVE THE RAMP SURFACE
 SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

 DETECTABLE EDGING MUST BE CONSIDERED ANYTIME THE PATH CHANGES DIRECTION.
 DETECTABLE EDGING MUST BEGIN 2" ABOVE RAMP SURFACE. PROTECTIVE EDGING
 SHOULD BE CONSIDERED ANYTIME A HANDRAIL IS REQUIRED, AND ANYTIME THE PATH
 CHANGES DIRECTION. THIS INCLUDES A TURN ONTO THE RAMP FROM THE PATH. DETECTABLE
 EDGING MUST BE AT LEAST 2.5" WIDE. DETECTABLE EDGING SHOULD BE PLACED WHERE
 THE WALKWAY CHANGES DIRECTION (TURNS). DETECTABLE EDGING

 TEMPORARY CURB RAMP
 PARALLEL TO CURB

 TEMPORARY CURB RAMP
 PERPENDICULAR TO CURB

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 9 OF 92
TEMPORARY PEDESTRIAN ACCESS

5' MINIMUM
4' DESIRABLE

TEMPORARY WALKWAY SURFACE

2% MAX. CROSS SLOPE

PEDESTRIAN CHANNELIZER

LEADING EDGE

0.5 INCH MAXIMUM

0.25 INCH MAXIMUM

PEDESTRIAN CHANNELIZER USING A BARRIER

(MINIMUM REQUIREMENTS)

GENERAL NOTES

PUBLISHERS OR OTHER ENTITIES MAY PRINT OR COPY A MINIMUM OF 8 INCHES WITHIN THE WALKWAY CLEAR SPACE WHEN LOCATED A MINIMUM OF 36 INCHES ABOVE THE WALKWAY SURFACE.

ANY PEDESTRIAN DEVICES USED TO PROVIDE POSITIVE PROTECTION FOR PEDESTRIANS OR WORKERS SHALL MEET MINIMUM REQUIREMENTS APPLICABLE FOR THE BARRIER'S APPLICATION.

PEDESTRIAN CHANNELIZERS SHALL BE PLACED CONTINUOUSLY ACROSS THE ENTIRE WIDTH OF THE WALKWAY CLEAR SPACE.

SPECIFIC NOTES

1. TEMPORARY CHANNELIZERS USED TO CREATE DETECTABLE EDGES SHALL BE LOCATED A MINIMUM OF 42 INCHES FROM THE ROADWAY EDGE, ANY SUPPORT ON THE FRONT OF THE DEVICE SHALL NOT EXTEND INTO THE 2 INCH MINIMUM WALKWAY CLEAR SPACE AND SHALL NOT EXCEED 0.5 INCHES IN HEIGHT ABOVE THE WALKWAY SURFACE.

2. PEDESTRIAN DEVICES SHALL CONTINUE WITH A MINIMUM OF 6 INCHES IN HEIGHT ABOVE THE WALKWAY SURFACE.

3. DEVICES SHALL NOT Block WATER DRAINAGE FROM THE WALKWAY. A DEEP HEEL OR PLANTER FROM THE WALKWAY SURFACE AT ITS MIDDLE OF A DEVICES IS ALLOWED FOR PAVEMENT PURPOSES. VS120X AND VS120L DEVICES SHALL HAVE A TOTAL WIDTH OF MINIMUM 10 INCHES.

4. DETECTABLE EDGES SHALL BE CONTINUOUS AND A MINIMUM OF 6 INCHES IN HEIGHT ABOVE THE WALKWAY SURFACE.

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6. DETECTABLE EDGES SHALL BE CONTINUOUS AND A MINIMUM OF 6 INCHES HIGH ABOVE THE WALKWAY SURFACE.

7. PEDESTRIAN DEVICES USED TO PROVIDE POSITIVE PROTECTION FOR PEDESTRIANS SHALL BE 32 INCHES IN HEIGHT OR GREATER.

8. SIDEWALK BARRICADE

TYPICAL AUDIBLE MESSAGE DEVICE LOCATION WHEN USED

2" MIN.

34" MIN.

SIDEWALK CLOSED

2" MAX.

WALKWAY SURFACE

NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL

GENERAL NOTES

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Fluidic-Amp Vortex Valve Model FA1012
With Sleeve Attachment For 6" Opening
Fabrication Drawing

Notes:
1. All 3/4" male fittings and 2" male fitting shall be plugged per plans.
2. All Local APP shall have one 2" male fitting connection and one 3/4" male fitting.

Underground Stormwater Storage Control Structure
Section A-A View

Front View

MISC. DETAILS - SPECIAL DETAIL

R202
Underground Stormwater Storage Control Structure

R301 & R317
Underground Stormwater Storage Control Structure
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TRAFFIC CONTROL - GREENVIEW DRIVE NORTH
TRAFFIC CONTROL
GREENVIEW DR

REMOVAL KEY

KEY DESCRIPTION

- CAUTION

- HAZARDOUS OR FLAMMABLE MATERIAL

- GREENVIEW DR

- S SEVENTH ST

- CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

- CITY OF ANN ARBOR

- PUBLIC SERVICES

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- 2020031-21

- S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS

- REMOVALS - GREENVIEW DRIVE SOUTH

- STA. 3+66 - STA. 11+50

- CAUTION

- HAZARDOUS OR FLAMMABLE MATERIAL

- REMOVALS - GREENVIEW DRIVE SOUTH

- STA. 3+66 - STA. 11+50

- CAUTION

- HAZARDOUS OR FLAMMABLE MATERIAL
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CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

REMOVALS - GREENVIEW DRIVE SOUTH
STA. 11+50 - STA. 14+24
Know what's below. Call before you dig.
WATER MAIN STRUCTURES

<table>
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CAUTION: HAZARDOUS OR FLAMMABLE MATERIAL

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WATER MAIN - S SEVENTH STREET
STA. 9+25 - STA. 13+25
CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

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HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

Know what's below. Call before you dig.

PLAN: 1" = 20'  PROFILE: 1" = 2'

WATER MAIN STRUCTURES

WATER MAIN STRUCTURES

WATER MAIN - GREENVIEW DRIVE NORTH
STA. 5+00 - STA. 9+00

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2020031-34

S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS

WATER MAIN - GREENVIEW Drive North
CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL
STORM SEWER STRUCTURE TABLE

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</table>

CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

STORM SEWER PLAN & PROFILE - GREENVIEW DR NORTH

STORM SEWER STRUCTURE TABLE

PLAN: 1" = 20'
PROFILE: 1" = 2'

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<th>STATION</th>
<th>TYPE</th>
<th>RM</th>
<th>DEVS</th>
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STORM SEWER PLAN & PROFILE - GREENVIEW DR NORTH

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<td>9.11</td>
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S. SEVENTH ST AND GREENVIEW DR. IMPROVEMENTS
STORM SEWER PLAN & PROFILE - GREENVIEW DR NORTH
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<td>557.37</td>
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PLAN: 1" = 20'
PROFILE: 1" = 2'

Know what's below. Call before you dig.

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S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS
STORM SEWER PLAN & PROFILE - GREENVIEW DR NORTH

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2020031-51

STORM SEWER STRUCTURE TABLE
R300 - R308
R308 - R316
S SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS
ROAD PLAN & PROFILE - S SEVENTH STREET
STA. 11+25 - STA. 15+50

CONSTRUCTION KEY

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<tr>
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<td>MGD</td>
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PROPPOSED TREE TABLE

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<table>
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**CONSTRUCTION KEY**

**PLAN: 1" = 20'**

**PROFILE: 1" = 2'**

**Know what's below. Call before you dig.**
CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

PLAN: 1" = 20'  PROFILE: 1" = 2'

CONSTRUCTION KEY

KEY DESCRIPTION

HMA
HMA APP
HP
CG
DOM
DOM-HE
DG-6
MGD
SW-4
SWR-6
SW6-HE
DWS
ABO
AMB
AGB
RSA
SSA
WSA

COVER SHEET

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ROAD PLAN & PROFILE - GREENVIEW DRIVE NORTH
STA. 5+00 - STA. 9+50

60 OF 92

2020031-60
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BARNARD RD
NORMANDY RD
GREENVIEW DR

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S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS
INTERSECTION GRADES - GREENVIEW DRIVE NORTH
PLAN:  1" = 10'  PROFILE:  1" = 10'

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CROSS-SECTIONS - S. SEVENTH STREET
STA. 5+50 - STA. 7+25