CITY OF ANN ARBOR
ENGINEERING

BROADWAY STREET WATER MAIN
REPLACEMENT AND RESURFACING PROJECT

RFP #23-04, FILE No. 2020030

NOTES

1. Full implementation of underground lines shall be in accordance with the Minimum Standard of the Michigan Municipal League. All underground lines shall be located in separate trenches and shall have a minimum of three feet fill separation. All underground lines shall have a minimum of three feet fill separation from all other underground lines. The location of underground services, other than water lines, may be different from the specifications.

2. The underground locations shown for materials other than electrical service lines and other underground structures shall be considered as approximate. The City of Ann Arbor reserves the right of alteration in the underground structures to be installed upon notification to the Engineer.

3. The completion of the work on these plans shall be in accordance with the provisions of the Michigan Municipal League Standards and Specifications. The Engineer shall make such alterations and additions, in the plans or specifications, as may be necessary to conform with these regulations.
CONSTRUCTION NOTES:

1. The Contractor shall construct the work in such a manner as will be consistent with the standards and specifications of the City of Ann Arbor and shall comply with all applicable codes and regulations of the City of Ann Arbor and the State of Michigan.

2. The Contractor shall provide all necessary labor, materials, equipment, and tools necessary to perform the work in accordance with the plans and specifications.

3. The Contractor shall be responsible for the care and safety of the work and for the protection of the public and the property owner during the course of the work.

4. The Contractor shall ensure that all work is performed in a manner that will not create a hazard to the public or the property owner.

5. The Contractor shall be responsible for the protection of the work from damage due to weather or other events beyond the control of the Contractor.

6. The Contractor shall be responsible for the payment of all necessary taxes and fees associated with the work.

7. The Contractor shall be responsible for the disposal of all waste materials in an environmentally friendly manner.

8. The Contractor shall be responsible for the maintenance of the work for a period of one year after completion.

9. The Contractor shall be responsible for the issuance of all necessary permits required by the City of Ann Arbor.

10. The Contractor shall be responsible for the payment of all necessary insurance required by the City of Ann Arbor.

11. The Contractor shall be responsible for the payment of all necessary fees required by the City of Ann Arbor.

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50. The Contractor shall be responsible for the payment of all necessary taxes required by the City of Ann Arbor.
Knock what’s below.
Call before you dig.
Know what's below.
Call before you dig.
Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

2020-03-08

BROADWAY STREET EXISTING TYPICAL SECTION
NO SCALE

BROADWAY STREET EXISTING TYPICAL SECTION
NO SCALE
Know what's below. Call before you dig.
Know what's below. Call before you dig.
EIGHT 7" BROADWAY STREET WATER MAIN DETAILS

GENERAL NOTES

1. PAYMENT FOR PAVEMENT MARKINGS FOR SPEED HUMPS AND RAISED INTERSECTIONS SHALL BE INCLUDED IN THE RESPECTIVE SUB ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.
PLAN: 1" = 20'

Know what's below. Call before you dig.
PROPOSED REMOVALS
STA. 133+00 TO STA. 143+00

REMOVAL KEY

<table>
<thead>
<tr>
<th>KEY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>REMOVE CONCRETE CURB OR CURB &amp; GUTTER - ANY TYPE, MODIFIED</td>
</tr>
<tr>
<td>2</td>
<td>REMOVE CONCRETE SIDEWALK, RAMP, &amp; DRIVES - ANY THICKNESS, MODIFIED</td>
</tr>
<tr>
<td>3</td>
<td>NOT USED</td>
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<tr>
<td>4</td>
<td>NOT USED</td>
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<td>5</td>
<td>PROTECTIVE FENCING</td>
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<tr>
<td>6</td>
<td>EROSION CONTROL, INLET FILTER DRAINAGE STRUCTURE, ANY SIZE OR DEPTH, REMOVE</td>
</tr>
<tr>
<td>7</td>
<td>SEWER, ANY SIZE OR DEPTH, REMOVE</td>
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<tr>
<td>8</td>
<td>NOT USED</td>
</tr>
<tr>
<td>9</td>
<td>HMA PAVEMENT SURFACE REMOVAL, ANY DEPTH</td>
</tr>
<tr>
<td>10</td>
<td>MACHINE GRADING, MODIFIED</td>
</tr>
</tbody>
</table>

BROADWAY ST. (66' R.O.W.)

SYMBOL LEGEND

- [ ] REMOVE CONCRETE CURB OR CURB & GUTTER - ANY TYPE, MODIFIED
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- [ ] HMA PAVEMENT SURFACE REMOVAL, ANY DEPTH
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
CITY OF ANN ARBOR
PUBLIC SERVICES
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P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org
**PLAN:**

1" = 20'

**REMOVAL KEY**

**DESCRIPTION**

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- REMOVE CONCRETE SIDEWALK, RAMP, & DRIVES - ANY THICKNESS, MODIFIED
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- SEWER, ANY SIZE OR DEPTH, REMOVE
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Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

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301 EAST HURON STREET
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ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

2020030

BROADWAY STREET WATER MAIN
PROPOSED WATER MAIN
STA. 0+00 TO STA. 4+50
CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

WATER MAIN STRUCTURE TABLE

| STRUCTURE | TYPE          | LOCATION | CENTERLINE ELEV |
|-----------|---------------|----------|-----------------|----------------|
| H - 3     | HYDRANT ASSEMBLY | PR WATER | 9+99           | 806.44         |
| V - 3     | 12" GATE VALVE-IN-WELL | PR WATER | 11+96          | 813.25         |
| H - 4     | HYDRANT ASSEMBLY | PR WATER | 13+17          | 827.45         |

PLAN: 1" = 20'
PROFILE: 1" = 4'

Know what's below.
Call before you dig.
Know what's below.
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Know what's below. Call before you dig.
Know what's below. Call before you dig.
Know what's below. Call before you dig.
KNOW WHAT'S BELOW.
CALL BEFORE YOU DIG.
Know what's below. Call before you dig.
PLANNING:

1" = 20'

Know what's below. Call before you dig.

BROADWAY ST.

INTERSECTION GRADES

DETAIL GRADING

CEDAR BEND DR.

(50' R.O.W.)

LEAIRD DR.

(66' R.O.W.)

JONES DR

(49.5' R.O.W.)

BAITS DR

(90' R.O.W.)

BAITS DR

(90' R.O.W.)

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BAITS DR
PLAN:
1" = 20'

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www.a2gov.org

2020030 - 43

BROADWAY STREET WATER MAIN
PAVEMENT MARKINGS
STA. 115+00 TO STA. 124+00
BROADWAY ST. (66’ R.O.W.)
Know what's below. Call before you dig.
Plan:

1" = 20'

Know what's below.
Call before you dig.

BROADWAY ST. (66' R.O.W.)

BROADVIEW (PRIVATE)

BROADVIEW LN. (PRIVATE)

BROADWAY ST. (66' R.O.W.)

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

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PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

202003046 OF 50
## Soil Classification

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td></td>
<td>Soil Surface Material</td>
</tr>
<tr>
<td>4.0</td>
<td></td>
<td>Loose R&amp;B Brown Clay with Gravel Fines (A)</td>
</tr>
<tr>
<td>9.0</td>
<td></td>
<td>Loose R&amp;B Brown Clay with Gravel Fines (B)</td>
</tr>
<tr>
<td>9.5</td>
<td></td>
<td>Soil in Contact with Water Main</td>
</tr>
<tr>
<td>7.7</td>
<td></td>
<td>Bottom of Being</td>
</tr>
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</table>

### Notes
- The soil classification table above provides information on the soil type, material, and depth for the Broadway Street Water Main project. This information is crucial for understanding the conditions under which the water main is being installed.

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### Notes
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Know what's below. Call before you dig.
### Project: Broadway Street - Turpin Road

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**Location:** Ann Arbor, Michigan

**Drilling Method:** Soil Borings

### Soil Classification

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<tr>
<td>0.0 - 1.0</td>
<td>CLAY</td>
<td>Lightly compacted Mummert Clay with sandy gravel and coarse sand.</td>
</tr>
<tr>
<td>1.0 - 2.0</td>
<td>CLAY</td>
<td>Medium compacted Mummert Clay with sandy gravel and coarse sand.</td>
</tr>
<tr>
<td>2.0 - 3.0</td>
<td>CLAY</td>
<td>Moderately compacted Mummert Clay with sandy gravel and coarse sand.</td>
</tr>
<tr>
<td>3.0 - 4.0</td>
<td>CLAY</td>
<td>Moderately compacted Mummert Clay with sandy gravel and coarse sand.</td>
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**Note:** Soil borings were taken at a distance of 50 ft from the proposed location.

### Additional Information

**Contact:**

- Phone: 734-794-6410
- Website: www.a2gov.org

**Date:** 20200304

**City of Ann Arbor - Public Services - Engineering**

**Broadway Street - Turpin Road**

**Soil Borings**
### Broadway Street Water Main - Soil Borings

#### Job No.: 30779

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Water Main</th>
<th>Soil Classification</th>
<th>n</th>
<th>f</th>
<th>wc</th>
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<tbody>
<tr>
<td>0.5</td>
<td>2.0</td>
<td>Sandy Clay with Some Gravel</td>
<td>5</td>
<td>58</td>
<td>0.0</td>
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<td>Sand with Some Gravel</td>
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#### Job No.: 30777

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<td>5</td>
<td>58</td>
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**Project:** Broadway Street Foundation

**Location:** Ann Arbor

**Drilling Method:** Soil Borings

**Date Completed:** 4/2020

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**City of Ann Arbor - Public Services - Engineering**

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**301 EAST HURON STREET**

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**734-794-6410**

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