RFP No 24-19, FILE No. 2022034
CONSTRUCTION NOTES:
1. Delays and interruptions to building natural and construction may be encountered due to the following: weather, power outages, and other factors beyond the contractor's control.
2. The contractor shall be responsible for any damage to private property caused by the contractor or their sub-contractors.
3. The contractor shall be responsible for all costs associated with any necessary permits.
4. The contractor shall be responsible for all costs associated with any necessary repairs.
5. The contractor shall be responsible for all costs associated with any necessary inspections.
6. The contractor shall be responsible for all costs associated with any necessary rework.
7. The contractor shall be responsible for all costs associated with any necessary cleanup.
8. The contractor shall be responsible for all costs associated with any necessary backfilling.
9. The contractor shall be responsible for all costs associated with any necessary paving.
10. The contractor shall be responsible for all costs associated with any necessary suturing.
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Know what's below. Call before you dig.
MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO ADDITIONAL COST TO THE PROJECT. ENOUGH TO CREATE A HAZARD, THE TRAFFIC CONTROL DEVICES SHALL BE DELINEATED WITH POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR CANCELLED OR BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SUSPEND AND COORDINATE WITH WORK WITH THE ENGINEER A MINIMUM OF 15 MINUTES INCLUDING WARNING & MODAL PROJECT TO BEGINNING OF WORK THAT REQUIRES A SIDEWALK CLOSURE. POST MOUNTED PMI LOCATION SIGN OR A WALKABLE CROSSBAR TO THE SIDEWALK AND NEVER USE THE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA.

THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY REQUIRE PROVIDING A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL BY THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE WORK SHALL BE ALLOWED TO BEGIN UNTIL THIS PLAN IS APPROVED BY THE ENGINEER IN WRITING.

THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL. THE CONTRACTOR OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE DIRECTED BY THE ENGINEER, OR STATED ON THE PLANS, THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
BYPASS ON ADJACENT AVAILABLE

BYPASS TYPE A

NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED SPEED OF 45 MPH OR LESS.

GENERAL NOTES

1. PROVIDE TEMPORARY WALKWAY SURFACE.
2. 4' MINIMUM 5' DESIRABLE.
3. PEDESTRIAN CHANNELIZERS.
4. TEMPORARY TRUNCATED DOWNS (REQUIRED IF CROSSING A MINOR ROAD OR COMMERCIAL DRIVEWAY).
5. MINOR ROAD OR DRIVEWAY.

SPECIFIC NOTES

1. TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
2. TEMPORARY CURB RAMPS ARE RECOMMENDED WHEN THE CLOSED AREA WAS USED AS AN INTERSECTION. TRAFFIC LAKE OR BYPASS LANE, STREET WATCHER SHALL BE PLACED FOR A 17', 10' DISTANCE IN ALONG WITH THE SIDEWALK SIGNAGE.
3. TEMPORARY TRUNCATED DOWNS (REQUIRED IF CROSSING A MINOR ROAD OR COMMERCIAL DRIVEWAY).
4. MINOR ROAD OR DRIVEWAY.

SIDEWALK BYPASS USING PARKING OR RENT借用或临时停车车道

BYPASS TYPE B

NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED SPEED OF 45 MPH OR LESS.

GENERAL NOTES

1. PROVIDE TEMPORARY WALKWAY SURFACE.
2. 4' MINIMUM 5' DESIRABLE.
3. PEDESTRIAN CHANNELIZERS.
4. TEMPORARY TRUNCATED DOWNS (REQUIRED IF CROSSING A MINOR ROAD OR COMMERCIAL DRIVEWAY).
5. MINOR ROAD OR DRIVEWAY.

SPECIFIC NOTES

1. TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
2. TEMPORARY CURB RAMPS ARE RECOMMENDED WHEN THE CLOSED AREA WAS USED AS AN INTERSECTION. TRAFFIC LAKE OR BYPASS LANE, STREET WATCHER SHALL BE PLACED FOR A 17', 10' DISTANCE IN ALONG WITH THE SIDEWALK SIGNAGE.
3. TEMPORARY TRUNCATED DOWNS (REQUIRED IF CROSSING A MINOR ROAD OR COMMERCIAL DRIVEWAY).
4. MINOR ROAD OR DRIVEWAY.

SIDEWALK BYPASS USING SHORTCUT OR PARKING LANE ON HIGH SPEED ROADWAY

BYPASS TYPE C

NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED SPEED OF 45 MPH OR LESS.

GENERAL NOTES

1. PROVIDE TEMPORARY WALKWAY SURFACE.
2. 4' MINIMUM 5' DESIRABLE.
3. PEDESTRIAN CHANNELIZERS.
4. TEMPORARY TRUNCATED DOWNS (REQUIRED IF CROSSING A MINOR ROAD OR COMMERCIAL DRIVEWAY).
5. MINOR ROAD OR DRIVEWAY.

SPECIFIC NOTES

1. TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
2. TEMPORARY CURB RAMPS ARE RECOMMENDED WHEN THE CLOSED AREA WAS USED AS AN INTERSECTION. TRAFFIC LAKE OR BYPASS LANE, STREET WATCHER SHALL BE PLACED FOR A 17', 10' DISTANCE IN ALONG WITH THE SIDEWALK SIGNAGE.
3. TEMPORARY TRUNCATED DOWNS (REQUIRED IF CROSSING A MINOR ROAD OR COMMERCIAL DRIVEWAY).
4. MINOR ROAD OR DRIVEWAY.

NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED SPEED OF 45 MPH OR LESS.
SPECIFIC NOTES

- **Curb Ramps** shall be 48" min. width with a firm, stable and slip resistant surface. Protection to edges with a 2.5" tall, height above the ramp shall be placed under all ramp edges. Curb ramps or landing platforms have a vertical drop of 6" or more per Fall Line. Curb ramps shall be constructed as a non-slip surface.

- **Protective Edging** with a 2.5" min. height above the ramp shall be placed when a curb ramp or landing platform has a vertical drop of 6" or greater or has a side apron slope steeper than 1:3. Protective edging should be considered when curb ramps or landing platforms have a vertical drop of 3" or more.

- **Detectable Edging** anytime a handrail is required, and anytime the path changes direction. This includes a turning onto the ramp from the path. Detectable edging must be utilized at an angle of 1:8 or greater. Detectable edging must begin a maximum of 2.5" above the ramp surface, and extend at least 6" above the ramp surface. Distinguish color shall be placed on all curb ramp landings wherever the ramp changes direction (turn).

- **Curb ramps** and landing ramps shall have a 2% max. cross slope.

- **Clear Space** of 48" x 48" min. shall be provided above and below the curb ramp. The curb ramp walkway edge shall be marked with a contrasting color, 2" to 4" wide marking. The marking is optional when color contrasting edging is used.

- **Water Flow** in the gutter system shall not be impeded.

- **Lateral Joints** or gaps between surfaces shall be less than 1/2" width. Changes between surface heights shall not exceed 1/2". Lateral edges shall be vertical up to 1/2" max and beveled up to 1.5" and 1/2" height.

- **Temporary Curb Ramp** parallel to curb.

- **Temporary Curb Ramp** perpendicular to curb.
TEMPORARY PEDESTRIAN ACCESS

PEDESTRIAN CHANNELIZER USING A BARRIER
(MINIMUM REQUIREMENTS)

PEDESTRIAN CHANNELIZER
(MINIMUM REQUIREMENTS)

GENERAL NOTES

- Buildings or objects may protrude a maximum of 1 foot into the walkway clear space unless located a minimum of 2 feet above the walkway surface.
- Any pedestrian devices used to provide positive protection for pedestrians or workers shall satisfy NCHRP 350 crashworthiness requirements appropriate for the barrier's application.
- Sidewalks shall be placed contiguously across the entire width of the walkway surface when closed.

SPECIFIC NOTES

- Sidewalk ending is in the walkway, there is a detectable edge. Ballast shall be located directly above the edge. Any support on the front of the device shall not extend into the 6-inch minimum walkway clear space and shall not exceed 0.5 inches in height above the walkway surface.
- Detectable edges shall be continuous and a minimum of 3 inches in height above the walkway surface.
- Surface shall not block water drainage from the walkway. A 34-inch drain opening from the walkway surface to its terminus shall be a minimum of 8 inches wide and 6 inches tall. The bottom of the drain shall have a 1:10 flare on both sides of the walkway.
- Devices (min. 3 inches wide) shall be used to channelize pedestrian flow around existing obstacles such that gaps do not allow pedestrians to enter from the interior walkway/roadway.
- Walkway surface shall be free from stone, and if present, compacted gravel, rubble, chips, or any materials that are not allowed.
- Emergency channelizing devices for pedestrians shall be 32 inches in height or greater.

TYPICAL AUDIBLE MESSAGE DEVICE LOCATION WHEN USED

NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL

WALKWAY SURFACE

SIDEWALK BARRICADE
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.

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2022034

MILLER AVENUE REHABILITATION
CONTECH CHAMBENMAXX
Know what's below. Call before you dig.
GENERAL NOTES

1. RAISED INTERSECTIONS SHALL FOLLOW THE SAME TAPER REQUIREMENT AS THE SPEED HUMPS DETAILED HEREIN.

2. PAYMENT FOR PAVEMENT MARKINGS FOR SPEED HUMPS AND RAISED INTERSECTIONS SHALL BE INCLUDED IN THE RESPECTIVE BID ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.
GENERAL NOTES

1. RAISED INTERSECTIONS SHALL FOLLOW THE SAME TAPER REQUIREMENT AS THE SPEED HUMPS DETAILED HEREIN.

2. PAINTING FOR PAVEMENT MARKINGS FOR SPEED HUMPS AND RAISED INTERSECTIONS SHALL BE INCLUDED IN THE RESPECTIVE BID ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.

CONCRETE RAISE INTERSECTION DETAIL
SCALE NOT TO SCALE
MILLER AVENUE
TYPICAL SECTION

PLAN:
1" = 4'

PROFILE:
1" = 4'

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MILLER AVENUE REHABILITATION
MILLER SECTIONS 1

HMA APPLICATION ESTIMATE

<table>
<thead>
<tr>
<th>HMA PAVEMENT</th>
<th>HIGHway</th>
<th>RATE OF APPLICATION</th>
<th>THICKNESS (INCHES)</th>
<th>AWI (MIN.)</th>
<th>BINDER</th>
<th>LOCATION/NOTES</th>
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NEWPORT RD
PINE TREE DR
MILLER AVE
NEWPORT PL
1" = 40'

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2022034 - 28
MILLER AVENUE REHABILITATION
TRAFFIC CONTROL - PHASE I STAGE III (WATER MAIN)

WORK ZONE BEGINS

25
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FOUNTAIN ST
CHAPIN ST
MILLER AVE
SPRING ST
N FIRST ST
MILLER AVE

1" = 40'

Know what's below. Call before you dig.
Know what's below. Call before you dig.
Know what's below.
Call before you dig.
WINES DR
SAUNDERS CRES
MILLER AVE
PINE TREE DR
1" = 40'

Know what's below. Call before you dig.

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MILLER AVENUE REHABILITATION
TRAFFIC CONTROL - PHASE II STAGE III (CYCLE TRACK)
STA. 30+00 - STA. 45+00
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Know what's below.
Call before you dig.
REMOVAL KEY

KEY DESCRIPTION

[] Light, Cable, and Misc. Material, MC Gauge

[ ] Arroyo/Stream Pipe

[ ] Electric, Phone and Cable, MC Gauge

[ ] Misc. Water Main, Valve

[] New Cast Iron Main

[] New Storm Sewer

[] New Cast Iron & PVC Manhole Fitting

[] New Manhole Frame

[] New Manhole Cover

[] New Manhole Cover & Frame

[] New Manhole Cover & Frame (Cast Iron)

[] New Manhole Cover & Frame (PVC)

[] New Catch Basin

[] New Storm Sewer (Cast Iron)

[] New Storm Sewer (PVC)

[] New Catch Basin (Cast Iron)

[] New Catch Basin (PVC)

[] New Manhole Cover & Frame (Concrete)

[] New Manhole Cover & Frame (Concrete 6"

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[] New Manhole Cover & Frame (Concrete 1560"

[] New Manhole Cover & Frame (Concrete 1590"

[] New Manhole Cover & Frame (Concrete 1620"

[] New Manhole Cover & Frame (Concrete 1650"

[] New Manhole Cover & Frame (Concrete 1680"

[] New Manhole Cover & Frame (Concrete 1710"

[] New Manhole Cover & Frame (Concrete 1740"

[] New Manhole Cover & Frame (Concrete 1770"

[] New Manhole Cover & Frame (Concrete 1800"

[] New Manhole Cover & Frame (Concrete 1830"

[] New Manhole Cover & Frame (Concrete 1860"

[] New Manhole Cover & Frame (Concrete 1890"

[] New Manhole Cover & Frame (Concrete 1920"

[] New Manhole Cover & Frame (Concrete 1950"

[] New Manhole Cover & Frame (Concrete 1980"

[] New Manhole Cover & Frame (Concrete 2010"

[] New Manhole Cover & Frame (Concrete 2040"

[] New Manhole Cover & Frame (Concrete 2070"

[] New Manhole Cover & Framework
Know what's below. Call before you dig.
Know what's below. Call before you dig.
WESLEY ST
POMONA RD
MILLER AVE

PR WATER - LINDA VISTA TO N SEVENTH

WATER MAIN STRUCTURES

<table>
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POMONA CONN

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WATER MAIN STRUCTURES

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RED OAK RD
RED OAK CONN
MILLER AVE

Know what's below. Call before you dig.

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ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

50 OF 130
PR WATER - N. SEVENTH TO CHAPIN

FOUNTAIN CONN

WATER MAIN STRUCTURES

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WATER MAIN STRUCTURES

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FOUNTAIN CONN

H7

H8

KNOW WHAT'S BELOW.
CALL BEFORE YOU DIG.
STORM SEWER STRUCTURE TABLE

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<tr>
<th>STRUCTURE</th>
<th>UTILITY STATION</th>
<th>TYPE</th>
<th>RM</th>
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<th>DPTH (Feet)</th>
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EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

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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.
MILLER AVE REHABILITATION
ROAD PLAN & PROFILE
STA. 66+00 - STA. 69+50

CONSTRUCTION KEY
KEY
DESCRIPTION
HMA
HMA APP
HP
CG
DOM
DOM-HE
DG-6
MGD
SW-4
SWR-6
SW6-HE
SW8
CP8
DWS
DDT
ABO
AMB
AGB
RSA
SSA
WSA

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MILLER AVE

CONSTRUCTION KEY

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PLAN:
1" = 20'

PROFILE: 1" = 4'

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.
Keep what's below.
Call before you dig.

MILLER AVENUE REHABILITATION
PAVEMENT MARKINGS
STA. 62+00 - STA. 69+00

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
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PUBLIC SERVICES
301 EAST HURON STREET
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ANN ARBOR, MI 48107-8647
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www.a2gov.org

81 OF 130
2022034

MILLER AVE
ARBORVIEW BLVD
RED OAK RD
MILLER AVE
MILLER AVE
Know what's below. Call before you dig.
Know what's below.
Call before you dig.
Know what's below. Call before you dig.
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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.
CITY OF ANN ARBOR
PROJECT MANAGEMENT
MILLER AVENUE CYCLE TRACK
MAPLE ROAD TO NEWPORT ROAD
AND CHAPIN STREET TO FIRST STREET

FINAL BID PLANS - 04/09/24
Know what's below. Call before you dig.
Know what's below.
Call before you dig.
Know what's below. Call before you dig.
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PUBLIC SERVICES
301 EAST HURON STREET
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ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

MILLER ROAD CYCLE TRACK
PROJECT DETAILS

DRAWING L60
SIZE A
SCALE 1:12
SHEET 1 OF 1

DRAWING L61
SIZE A
SCALE 1:8
SHEET 1 OF 1
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ANN ARBOR, MI 48107-8647
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NOT TO SCALE

PROJECT DETAILS

20230643-DT06
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.
CONSTRUCTION KEY

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Know what's below. Call before you dig.
MILLER ROAD CYCLE TRACK
PAVEMENT MARKING PLAN
STA. 19+00 TO STA. 27+50

Know what's below. Call before you dig.
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MILLER ROAD CYCLE TRACK
PAVEMENT MARKING PLAN
STA. 36+00 TO STA. 44+50

Know what's below. Call before you dig.

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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

SAUNDERS CRES.
MILLER AVE.

MILLER AVE.

20230643-PM04
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