CONSTRUCTION NOTES:

1. KNOW WHAT'S BELOW.

2. CALL BEFORE YOU DIG.

3. PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

4. PERMIT ISSUING AUTHORITY: NO COST TO CONTRACTOR

CONTACT INFORMATION

PUBLIC UTILITIES

OWNER

CONTACT

PRIVATE UTILITIES

OWNER

CONTACT

TRAVER BOULEVARD BENCHMARKS

BM # | ELEV | DESCRIPTION
2 | 908.38 | SOUTH FLANGE BOLT ON HYDRANT, WEST SIDE DRIVEWAY ENTRANCE BY CONDO #2630
2 | 908.02 | NW BOLT ON LAMP POST, EAST SIDE OF WEST ENTRANCE TO CONDO #2602-2626
3 | 912.21 | NW BOLT ON LAMP POST, 70' WEST OF ENTRANCE TO CONDO #2558
4 | 914.15 | SE BOLT ON LAMP POST, NW CORNER OF TRAVER AND LAKEHURST

BARTON DRIVE BENCHMARKS

BM # | ELEV | DESCRIPTION
2 | 830.51 | WEST BOLT ON FLANGE OF HYDRANT, ON THE SW CORNER OF BOARDWALK & OAKBROOK ± 26' WEST OF CENTERLINE OF BOARDWALK AND ± 37' SOUTH FROM CENTERLINE OF OAKBROOK.
2 | 837.53 | ARROW ON HYDRANT, EAST SIDE OF BOARDWALK, JUST NORTH OF GRANGER DRIVEWAY ENTRANCE #2915, AND SOUTH OF DRIVEWAY ENTRANCE TO THE BOARDWALK COMMERCE CENTER #2801-2875

BM # | ELEV | DESCRIPTION
2 | 835.372 | SET RR SPIKE IN S. SIDE OF U.P. ON N. SIDE OF BARTON IN FRONT OF HSE NO. 709.
3 | 830.154 | SET RR SPIKE IN N.E. SIDE OF L.P. AT THE S.W. CORNER OF BARTON AND CHANDLER.
4 | 820.265 | SET RR SPIKE IN S. SIDE OF U.P. AT THE N.W. CORNER OF BARTON AND NORTHSIDE.
5 | 815.495 | SET RR SPIKE IN S. SIDE OF L.P. ON N. SIDE OF BARTON. ACROSS FROM LONG SHORE DR.
6 | 803.694 | SET RR SPIKE IN S. SIDE OF U.P. ON N. SIDE OF BARTON. 2ND POLE WEST OF BREDE ST.

STIMSON STREET BENCHMARKS

BM # | ELEV | DESCRIPTION
1 | 839.98 | ARROW ON HYDRANT. 45± WEST OF 475 OF WHITE ST. AND 20'± NORTH OF 475 OF STIMSON ST.
2 | 843.75 | E'LY FLANGE BOLT ON HYDRANT. 25'± EAST OF 475 OF S. STATE ST. AND 40'± NORTH OF 475 OF STIMSON ST.

BM # | ELEV | DESCRIPTION
1 | 909.06 | CITY OF ANN ARBOR AAGRS #2020
1 | 908.38 | SOUTH FLANGE BOLT ON HYDRANT, WEST SIDE DRIVEWAY ENTRANCE BY CONDO #2630
1 | 908.02 | NW BOLT ON LAMP POST, EAST SIDE OF WEST ENTRANCE TO CONDO #S 2602-2626
2 | 912.21 | NW BOLT ON LAMP POST, 70' WEST OF ENTRANCE TO CONDO #2558
3 | 914.15 | SE BOLT ON LAMP POST, NW CORNER OF TRAVER AND LAKEHURST

BOARDWALK DRIVE BENCHMARKS

BM # | ELEV | DESCRIPTION
1 | 834.51 | REEFS ON 75% OF PAVING, 800 FT WEST OF SOUTH FAIRWAY RESTAURANT, 675 FT WEST OF SOUTH FAIRWAY RESTAURANT.
2 | 837.53 | SEE BOARDWALK BENCHMARKS"
PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET

SPECIFIC NOTES
- Temporary curb ramps with detectable warning shall be provided for wheelchair users.
- Temporary driveway sidewalks shall be provided for wheelchair users.
- Signs shall be used to control vehicle and pedestrian movements.
- Bicycles shall be protected as necessary.
- Pedestrian access shall be provided to all adjacent properties.

PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES
- Temporary crosswalk shall be provided.
- Temporary pavement markings for crosswalks shall be provided.
- Temporary signs shall be provided.
- Pedestrian access shall be provided to all adjacent properties.

LEGEND
- DETOUR
- PEDESTRIAN CHANNELIZATION DEVICE
- WORK AREA
- TRAFFIC CONTROL DEVICE
- ROADWAY
- PEDESTRIAN TRAFFIC SIGNALS
- PEDESTRIAN ACCESSIBLE DETOUR USING OPPOSITE SIDE OF STREET

OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS
(FOR CORNER SIDEWALK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK)

GENERAL NOTES
- When crossing or deteriorating driveways or sidewalks, the contractor shall provide temporary grades and barriers that are consistent with existing pedestrian facilities.
- Temporary traffic control devices for pedestrians shall be used when necessary.
- Other devices may be necessary to control vehicle traffic when work is necessary.
- Pedestrian indifference may occur due to construction work or vehicle traffic.
- Pedestrians should be provided with temporary access to all sides of the street.
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OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS
(FOR CORNER SIDEWALK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK)
Provide temporary sidewalk surface.

6' minimum 5' desirable

Pedestrian channelizer

Bypass on adjacent available

Right of Way

BYPASS TYPE A

Bypass using parking or shoulder on low speed roadway

BYPASS TYPE B

Sidewalk bypass using shoulder on parking lane on high speed roadway

BYPASS TYPE C

General Notes

When closing or redirecting sidewalks or streets, the contractor shall provide the following temporary traffic control devices to control pedestrian activity and to identify the right-of-way.

Temporary Traffic Control Devices Located to Pedestrians are shown. Other devices may be necessary to control vehicular traffic. Please refer, as necessary, to the City of Ann Arbor Public Services - Engineering project plans.

Provide a smooth, continuous, hard surface throughout the length of the APM. Compactable gravel, aggregate, or slag materials are not acceptable. Provide a temporary sidewalk surface to cover short segments of rough, soft, or uneven ground.

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When the engineer determines that the contractor’s operations or placement of temporary traffic control devices has caused a situation that the visibility of a traffic control device is impaired, then devices shall be delineated with flags or other engineer-approved devices at no extra cost. 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.

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.

Specific Notes

1. Temporary curb ramps with detectable warnings.

2. Temporary crosswalks to be identified with white paint or by the use of preprinted signs, temporary traffic control devices (such as channelizers), or temporary crosswalks. Provide a smooth, continuous, hard surface throughout the length of the APM. Compactable gravel, aggregate, or slag materials are not acceptable. Provide a temporary sidewalk surface to cover short segments of rough, soft, or uneven ground.

3. Sidewalk signs are recommended when the closed area was used as an intersection or the sidewalk is used to accommodate pedestrians. Provide a smooth, continuous, hard surface throughout the length of the APM. Compactable gravel, aggregate, or slag materials are not acceptable. Provide a temporary sidewalk surface to cover short segments of rough, soft, or uneven ground.

4. Temporary pedestrian detours shall be provided when the sidewalk is closed. Provide a smooth, continuous, hard surface throughout the length of the APM. Compactable gravel, aggregate, or slag materials are not acceptable. Provide a temporary sidewalk surface to cover short segments of rough, soft, or uneven ground.

5. Temporary traffic control devices located to pedestrians are shown. Other devices may be necessary to control vehicular traffic.

6. Temporary pedestrian signals controlling closed crosswalks shall be covered or deactivated by the City of Ann Arbor. The contractor shall schedule and coordinate the work with the engineer to minimize the impact to pedestrians. Provide a smooth, continuous, hard surface throughout the length of the APM. Compactable gravel, aggregate, or slag materials are not acceptable. Provide a temporary sidewalk surface to cover short segments of rough, soft, or uneven ground.

7. Street parking shall be prohibited for the length of the project.

8. Provide temporary sidewalk surface.

9. Provide temporary sidewalk surface.

10. Provide temporary sidewalk surface.

11. Provide temporary sidewalk surface.
CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

PROTECTIVE EDGING WITH A 2.5" MIN. HEIGHT ABOVE THE RAMP SHALL BE PLACED WHERE 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 GREATER.

DETECTABLE EDGING ANYTIME A HANDRAIL IS REQUIRED, AND ANYTIME THE PATH CHANGES DIRECTION. THIS INCLUDES A TURN ON THE RAMP FROM THE PATH, OR CHANGES IN PATH DIRECTION AT THE CURB RAMP OR LANDING WHERE THE WALKWAY CHANGES DIRECTION (TURN).

CURB RAMPS AND LANDING 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 WHERE 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 SHOULD BE VERTICAL UP TO 1/4" MAX, AND BEVELED AT 1:2 BETWEEN 1/4" 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

1. PEDESTRIAN CHANNELIZERS MUST BE DEPLOYED IN A MINIMUM OF 4 INCHES HIGH ABOVE THE WALKWAY SURFACE.

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

3. BARRICADES SHALL BE PLACED CONTINUOUSLY ACROSS THE ENTIRE WIDTH OF THE WALKWAY CLEAR SPACE.

4. GENERAL NOTES

   - RAILINGS OR OTHER OBJECTS MAY PROTRUDE A MAXIMUM OF 4 INCHES INTO THE WALKWAY CLEAR SPACE WHEN LOCATED A MINIMUM OF 27 INCHES ABOVE THE WALKWAY SURFACE.

   - ANY PEDESTRIAN DEVICES USED TO PROVIDE POSITIVE PROTECTION FOR PEDESTRIANS OR WORKERS SHALL MEET NCHRP 350 CRASHWORTHY REQUIREMENTS APPROPRIATE FOR THE BARRIER'S APPLICATION.

   - BARRICADES SHALL BE PLACED CONTINUOUSLY ACROSS THE ENTIRE WIDTH OF THE WALKWAY CLEAR SPACE.

5. SPECIFIC NOTES

   - ANY TRIPPING HAZARD IN THE WALKWAY NEEDS A DETECTABLE EDGE. BALLAST SHALL BE LOCATED BEHIND OR INTERNAL TO THE DEVICE. ANY SUPPORT ON THE FRONT OF THE DEVICE SHALL NOT EXTEND INTO THE WALKWAY CLEAR SPACE.

   - PEDESTRIAN DEVICES USED TO PROVIDE POSITIVE PROTECTION FOR PEDESTRIANS OR WORKERS SHALL BE PLACED CONTINUOUSLY ACROSS THE ENTIRE WIDTH OF THE WALKWAY CLEAR SPACE.

   - DEVICES SHALL NOT BLOCK WATER DRAINAGE FOR THE WALKWAY. A GAP HEIGHT OR OPENING FROM THE WALKWAY SURFACE UP TO A MAXIMUM OF 2 INCHES IS ALLOWED FOR DRAINAGE PURPOSES.

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6. HANDRAILING

   - PROVIDE A HANDRAIL ON BOTH SIDES OF THE RAMP IF THE RAMP IS NOT EXPOSED TO VEHICLE TRAFFIC AND HAS A TOTAL RISE GREATER THAN 6 INCHES, AND A LENGTH GREATER THAN 72 INCHES.

   - ENSURE THE HANDRAIL IS 1.25 AND 1.5 INCHES WIDE AND CONFIGURED TO BE A "GRASPABLE" CROSS-SECTION.

   - SEE CONSTRUCTION SUBSECTION 2.A FOR ADDITIONAL DETAILS.

7. SIDEWALK BARRICADE

   - WHEN THE RAMP IS EXPOSED TO TRAFFIC, IN LIEU OF HANDRAILS, USE A PROTECTIVE EDGE 2.5 INCHES MINIMUM HEIGHT ABOVE THE RAMP SURFACE OR 1:10 FLARE ON BOTH SIDES OF THE RAMP.

   - ALL DEVICES SHALL BE FREE OF SHARP OR ROUGH EDGES, AND FASTENERS (BOLTS) SHALL BE ROUNDED TO PREVENT HARM TO HANDS, ARMS OR CLOTHING OF PEDESTRIANS.

   - ALL DEVICES USED TO CHANNELIZE PEDESTRIAN FLOW SHOULD INTERLOCK SUCH THAT GAPS DO NOT ALLOW PEDESTRIANS TO STRAY FROM THE INTENDED CHANNELIZED PATH.

8. WALKWAY SURFACE

   - A WALKWAY SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED.

   - LONGITUDINAL CHANNELIZING DEVICES FOR PEDESTRIANS SHALL BE 32 INCHES IN HEIGHT OR GREATER.

   - 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

   - 7 OF 30
1. Unprotected open holes and protective covers within work zone to prevent open trenches and pipes on roadway.
2. Maintain pedestrian access during construction.
3. Keep construction areas as tidy as possible.
4. Construction shall not interfere with underground utility access.
5. Shall not obstruct pedestrian or vehicular access to sidewalks.
6. Shall not obstruct pedestrian entrances to properties.

Note: This is a City of Ann Arbor Public Services Engineering document for Sidewalk Gap Elimination - 2021.
Know what's below.
Call before you dig.

REMOVAL KEY

<table>
<thead>
<tr>
<th>KEY</th>
<th>DESCRIPTION</th>
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SIDEWALK GAP ELIMINATION - 2021
BARTON DRIVE - REMOVALS
STA. 8+00 - STA. 9+69

CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

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
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www.a2gov.org

10 OF 30
Know what's below.
Call before you dig.

SIDEWALK GAP ELIMINATION - 2021

WORK ZONE BEGINS
END WORK ZONE

WORK ZONE BEGINS
END WORK ZONE

1. Maintain pedestrian access during construction.
2. Other contractor signs as needed or as directed by engineer.
3. Pedestrian crossing pavement as directed by the engineer.
4. Contractor shall place temporary signage message onto a number of one (1) week prior to the start of construction as required, including message to be provided by the engineer.
Know what's below. Call before you dig.

CAUTION CRITICAL UTILITY

REMOVAL KEY

<table>
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CAUTION HAZARDOUS OR FLAMMABLE MATERIAL

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Know what's below. Call before you dig.
KNOW WHAT'S BELOW.
CALL BEFORE YOU DIG.
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CAUTION
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SIDEWALK GAP ELIMINATION - 2021
BOARDWALK DRIVE
REMOVALS AND PROPOSED SIDEWALK REMOVAL KEY

2021007-24

SIDEWALK GAP ELIMINATION - 2021
BOARDWALK DRIVE
CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

24 OF 30
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.

TRAVER BLVD

NIXON RD

REMOL KEY

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