GENERAL NOTES

UTILITIES

MISS DIG/UNDERGROUND UTILITY NOTIFICATION
For the protection of underground utilities and the avoidence of the violation of Act 174, call 1-800-448-7171 or 663-483-7171 or visit the web at www.811call.com for a free on-site挖掘前定位项。City Engineers and/or the Michigan Department of Transportation will specify the necessary underground utility disconnect with property owner(s) and resident(s) in the construction area.

STOCK PILES AND STAGING AREAS
The Engineer will approve all locations for material stock piles and or site staging areas.

LAWN SPRINKLERS SYSTEMS AND LANSCAPING
Owners of existing lawn sprinkler systems and/or landscaping shall be notified in writing with a copy sent to the Engineer by the Contractor. To avoid delays, any work to be done that will affect these systems should be scheduled to be done during the Contractor's work. The Contractor shall not use the system while the work is being performed. The Contractor shall also notify the Engineer of all changes to the existing system and/or landscaping that will be done. If the Contractor fails to notify the Engineer prior to commencing work, the Contractor shall proceed at their own risk.

SURVEY
ADJUSTING MONUMENT BOXES
Presence of government corners on this project, whether shown or not, it may be necessary to place or adjust monument boxes, as required.

STATIONING
Stationing for this project was taken from old plans and pavement stenciled existing and is not necessarily accurate.

DETAILED GRADES
SHEET 1 OF 15

SIDEWALK AND SIDEWALK RAMPS
Share all sidewalk and sidewalk ramp gradients according to Standard Plan 8-28 and as shown on the plans. Prior to constructing the sidewalk and sidewalk ramps, the Engineer will verify the grades and authorize the construction of the sidewalk and sidewalk ramps.

SANITATION

SOIL EROSION MEASURES
Place all appropriate soil erosion and sedimentation control measures prior to undertaking any earth-moving activities. Place all establishment items as soon as possible on potential erosion slopes as directed by the Engineer. Protect concrete grade guides with either sod or sawdust or mulch as directed by the Engineer.

BASES
ASSESSMENT BASE

SHEET 2 OF 15

SUBBASE
Place Subbase (as specified) to a minimum thickness of MDOT Subbase Material. MDOT Subbase Material is placed to a thickness of 65% of its maximum dry density under concrete sidwalk and ramps as shown on the plans, inclusive of the work in the contract pay items - Sidewalks, Curb.

DRAINAGE
STORM SEWER
Storm sewer work may unacceptably become damaged during construction. The Contractor or Engineer may determine that existing storm sewer needs replacing. In either case, the Engineer may direct the sewer to be removed and replaced. The Engineer will pay the cost of this work using applicable contract pay items or as new work if the contract includes no new work.

Where pipes of different sizes or materials are joined, use Femic flexible couplings with stainless steel shell rings. The pipefitter's purchase price for these devices, including piping, shall be paid as an extra. Prior to payment for this item, the Contractor shall submit a request for the Engineer's review and approval. The Contractor will be required to install the replacement of these devices shall be included in the payment for the sewer.

Where storm sewer is to be removed and replaced or added, all pipe shall be installed using the utility trench staked shown elsewhere in the plan sheets and/or as detailed in the specifications. Trench Details C-1 and V require the use of MDOT Chain Grab Material.

DRAINAGE (continued)
UNDERGROUND
Cap existing underground utilities during construction to prevent material from entering the plow. The Engineer will pay the cost of this work using applicable contract pay items or as new work if the contract includes no new work.

In cases where underground utilities cannot be installed in accordance with the details, the underground utilities shall be installed at the depth as indicated on the plans, or as directed by the Engineer prior to commencing work. Contractor shall proceed as directed by the Engineer.

ILLEGIT CONNECTORS TO STORM WATER SYSTEM
Connectors to existing storm water systems not shown on the plans must be approved and/or disconnected, prior to commencing work by the Engineer. The Contractor shall proceed at their own risk.

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

SMITH CRANES & MACHINERY LIMITED ET AL., RHETT V. ROYAL ET AL.
1909 S.FIELD ST.
ANN ARBOR, MI 48103
(734) 662-0123

CITY OF ANN ARBOR

PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.
1. The contractor shall implement and maintain the soil erosion control measures as shown on the plans and as directed by the engineer at all times during construction. Any modifications or additions to the soil erosion control measures due to construction or changed conditions shall be as directed and approved by the engineer.

2. All soil erosion and sedimentation control work shall conform to the permit requirements of the city of Ann Arbor, chapter 65 AN Arbor Unified Development Code, city of Ann Arbor standards division 1, the laws of the state of Michigan, and the requirements of the contract documents.

3. Daily, or after any storm event, inspections of erosion control measures shall be made by the contractor. Periodic inspections may be made by the engineer to determine the effectiveness of erosion and sedimentation control measures. Any necessary corrections shall be made without delay, and without additional cost to the city of Ann Arbor.

4. Erosion and sedimentation control work on the site shall be contained on the site and not be allowed to collect on any off-site areas, roadways or waterways.

5. All mudslips, tracked onto roadways from the site due to construction, shall be promptly removed by the contractor. If so ordered, the contractor shall provide and operate a vacuum typed street sweepers, at no additional cost to the city of Ann Arbor.

6. Restoration of all disturbed areas, including placement of topsoil, seed, fertilizer and mulch and or sod shall be performed within five (5) days of the completion of final grades.

7. Construction operations shall be scheduled and performed so that preventative soil erosion control measures are in place prior to excavation in critical areas and temporary stabilization measures are in place immediately following backfilling operations.

8. Special precautions will be taken in the use of construction equipment to prevent situations that promote erosion.

9. Proper dust control shall be maintained during construction by use of water trucks and/or dust palliative as required.

10. The contractor shall be responsible for maintaining all temporary soil erosion control measures and removal of some measures upon authorized completion of the project. Final completion of project will not be authorized until all site work and utility construction is complete and all soils are stabilized.

11. The contractor shall not grade into adjacent properties. Silt and protective fence shall be installed and maintained to prevent grading, erosion and sedimentation into the adjacent properties.

12. Tree protection fencing must remain intact until restoration of the site is complete.

13. Continually maintain erosion and sedimentation control measures, as required to allow drainage and sediment removal. Remove any accumulated sediment immediately.

14. Complete all fine grading.

15. Temporary seed and install erosion control blanket in all disturbed areas.

16. Refer to landscape planting plans for permanent site stabilization.

17. Clean out storm sewer systems.

18. Remedie any noted defects to the satisfaction of the city of Ann Arbor's soil erosion and sedimentation control official.

19. All TEMP. soil erosion control measures must be removed, with engineer’s approval, prior to final inspection.

Note: This sequence is for information only. It is intended to show the sequence of construction with respect to the soil erosion and sedimentation control measures. The contractor is responsible for submitting their own detailed construction schedule and sequence to the engineer for review, comment and approval.

Temporary Seeding:

1. Seed in accordance with project drawings and specifications.

2. Any disturbed area not paved, seeded, mulched, sodded or built upon by November 15th or June 15th is to be temporarily stabilized per specifications.

The estimated cost of soil erosion and sedimentation control measures, topsoil, seeding, and mulch is $5,000.00

On site soils per the USDA soil survey of Washtenaw County, Michigan:

- Sb: Sebewa loam, in depression areas, broad low lying area, and drainage ways of outwash plains, valley trains and terraces. Slope is 1% to 3%.
- Sm: Mathernesh sunny loam, in depression areas, broad low lying areas, and along drains ways, outwash plains, valley train, and terraces. Nearly level to sandy slopeing.

SILT FENCE SD-EC-3

MULCH BLANKET DETAIL
Call before you dig.

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CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
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734-794-6410
www.a2gov.org

7 OF 34
N T S R
Know what's below.
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8 OF 34
2020-024
S INDUSTRIAL HWY CONCRETE PAVEMENT REPAIRS

GENERAL NOTES:
1. A MAXIMUM OF 2 POSTS WITHIN A 1 FOOT PAVEMENT IS PERMITTED.
2. ALL SIGN POSTS SHALL COMPLY WITH HIGHWAY DEPARTMENT STANDARDS.
3. ALL POSTS SHALL BE EMBRASED A MINIMUM OF 48".
4. CENTERING OF POSTS IS NOT PERMITTED.
5. TURN SHOVELS ARE REQUIRED FOR THE SHOVEL PAVEMENT INSTALLATION.
6. EACH POST, IN THE SIGN PAVEMENT SUPPORTS DO NOT VARY FROM PLANE OF MORE THAN 3 DEGREES IN 100 FT. PROVIDE A CENTER TO CENTER DISTANCE BETWEEN POSTS WITHIN A PERCENT OF PLAN EXTENSION.
7. NO MORE THAN ONE (1) SIGN POST IS SHOWN. WILL BE PERMITTED.
8. POST TYPICAL SHOWN AS SHOWN AGAINST A TURN SUPPORT INSTALLATION.
9. NO SUPPORTS ARE PERMITTED IN SIGN. NO HORIZONTAL. SUPPORTS THROUGH SIGN LINEDI reshaped are permitted in sign.
10. REMOVE SHOVEL POSTS AFTER POST INSTALLATION IS ENSURED TO BE PERMITTED IN THE SIGN.
11. ALL LABOR, MATERIALS, AND DELAYS, INCLUDING TEMPORARY SUPPORTS REQUIRED TO INSTALL, MAINTAIN, REPLACE, OR REMOVE THE TEMPORARY LOCAL INFRASTRUCTURE SUPPORTS, ARE ENJOURNED TO BE INCLUDED IN THE COST OF THE TEMPORARY SUPPORT.
12. LAW ENFORCEMENT IS REQUIRED AT THE BOTTOM OF THE SIGN.
13. POSTS SHALL NOT EXCEED MORE THAN 30" ABOVE THE SIGN.
14. TEMPORARY WIRE SUPPORTS DO NOT REQUIRE PERMISIVE TREATMENT.

END OF SHEET
GENERAL NOTES

1. PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES

2. SPECIFIC NOTES

3. PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET

4. PEDESTRIAN DETOUR USING THE SAME SIDE OF STREET

5. OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS

(for corner sidewalk closure with optional temporary crosswalk)

PROJECT PLANS

PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE
OTHER SIDE OF STREET.

OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS

(FOC CORNER SIDEWALK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK)

PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET

PEDESTRIAN DETOUR USING THE SAME SIDE OF STREET

OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS

(for corner sidewalk closure with optional temporary crosswalk)

PROJECT PLANS

PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE
OTHER SIDE OF STREET.

OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS

(FOC CORNER SIDEWALK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK)
NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED SPEED OF 45 MPH OR LESS.

GENERAL NOTES

These notes are for the construction of the special provisions for maintaining the flow of traffic and the process of clear. The requirements are designed to be used as a guide to the general contractor.

When closing of selected crosswalks on sidewalks, the contractor shall provide temporary pedestrian flagging at signalized intersections in conformance with existing pedestrian traffic controls.

Temporary traffic control devices are shown. Other devices may be necessary to control local traffic. Street work, as necessary, to provide and maintain pedestrian route (4) at all times. For regular business with no available detours, maintain the same sidewalk as at all times.

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 permanent sidewalk, the contractor shall stage work as necessary to coordinate this work with the engineer a minimum of 5 days (not including weekends & holidays) prior to the beginning of work that requires a sidewalk closure.

Temporary truncation of sidewalks shall be delineated with flags or other Engineer-approved devices.

Temporary signs located adjacent to an intersection shall be shown as an introduction to traffic lane of a bypass lane. Street lighting shall be provided for.

An approach to a business or residence shall be provided for. Street lighting shall be provided.

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 reduced enough to create a hazard, the traffic control device shall be covered. Clearance from the bottom of the sign to the sidewalk surface.

When closing or relocating crosswalks or sidewalks to the maximum extent feasible by providing a smooth, continuous hard surface through the length of the apr.

The pedestrian traffic signals controlling closed crosswalks shall be covered. All temporary signs and temporary traffic control devices shall be covered.

Temporary traffic control devices for pedestrians are shown.

Other devices may be necessary to control local traffic. Street work, as necessary, to provide and maintain pedestrian route (4) at all times.

Provide a smooth, continuous, hard surface through the length of the apr.

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TEMPORARY CURB RAMPS

PARALLEL TO CURB

TEMPORARY CURB RAMPS

PERPENDICULAR TO CURB

SPECP. NOTES:

1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
2. PROTECTIVE EDGING DESIGNED TO BE 2 1/2" MIN. HEIGHT ABOVE THE RAMP SURFACE. THE RAMP SHALL BE PLACED WHERE A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR MORE OR HAS A SIDE APRON FLANGED HIGH ENOUGH TO CONSIDER WHETHER CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 1" OR MORE.
3. EXISTING DRAINAGE SYSTEM MUST BE ADEQUATELY Routed AND ANY UPSTREAM STRUCTURES MUST BE Routed TO PREVENT EXCESS FLOW TO THE CURB RAMP INSTALLATION.
4. THE FLOOR FINISH SHALL BE HANDLED TO ALLOW A MAXIMUM ROUGHNESS OF 0.25" IN THE CURB RAMP INSTALLATION.
5. JOINT GAP TREATMENT (IF APPLICABLE) MUST BE PLACED AT THE GUTTER AND OR DRAINAGE SYSTEM.
6. CLEAR SPACE OF 48" x 48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
7. THE CURB RAMP INSTALLATION SHALL BE HANDLED TO ALLOW A MAXIMUM ROUGHNESS OF 0.5" IN THE CURB RAMP INSTALLATION.
8. PROTECTIVE EDGING 2 1/2" MIN. HEIGHT ABOVE RAMP SURFACE.
9. EDGE TREATMENT: THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.

NOTE:

- WATER FLOW IN THE GUTTER SYSTEM SHALL NOT BE IMPAIRED.
- LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL NOT BE MORE THAN 1/2" WIDTH.
- CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHOULD BE VERTICAL UP TO 1/4" MAX. AND SLANTED AT 1:2 BETWEEN 1/4" AND 1/2" HEIGHT.
TEMPORARY PEDESTRIAN ACCESS

- 2% MAX. CROSS SLOPE
- 2" MAX.

TEMPORARY WALKWAY SURFACE

- 7" MAX.
- 6" MINIMUM

NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL

GENERAL NOTES

- Sidewalk or street objects may protrude a maximum of 4 inches into the sidewalk clear space when located a minimum of 27 inches above the sidewalk surface.
- Any pedestrian devices used to provide positive protection for pedestrians or workers shall be designed so as to eliminate any hazard to the sidewalk or street surface, and shall not exceed 0.5 inches in height above the sidewalk surface.

SPECIFIC NOTES

- Any temporary sidewalk panels used to provide a detectable edge shall be located a minimum of 27 inches above the sidewalk surface and shall not exceed 0.5 inches in height above the sidewalk surface.
- Detectable edges shall be continuous and shall be a minimum of 6 inches high and contrast with the sidewalk surface.
- Sidewalk panels shall not block water drainage from the sidewalk. A gap height of 0.25 inches is allowed for drainage purposes.
- 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 to 1.5 inches wide and configured to be a "graspable" cross-section.

SEE CONSTRUCTION SUBSECTION 2.A FOR ADDITIONAL DETAILS.

- Ensure the handrail is 1.25 to 1.5 inches wide and configured to be a "graspable" cross-section.
- 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 a 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 shall interlock such that gaps do not allow pedestrians to stray from the intended channelized path.
- A temporary sidewalk panel shall be firm, stable, and slip resistant, preferably concrete, and long enough to be placed across the entire width of the sidewalk space being closed.
- Pedestrian devices shall be placed continuously across the entire width of the sidewalk surface where closed.
- 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 to 1.5 inches wide and configured to be a "graspable" cross-section.

SEE CONSTRUCTION SUBSECTION 2.A FOR ADDITIONAL DETAILS.

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S INDUSTRIAL HWY
PHASE I CONSTRUCTION AREA
1" = 40'

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S INDUSTRIAL HWY CONCRETE PAVEMENT REPAIRS
MAINTENANCE OF TRAFFIC - PHASE I
STA. 17+00 - STA. 34+00

TEMPORARY TRAFFIC CONTROL
DEVICES (THIS SHEET)

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S INDUSTRIAL HWY CONCRETE PAVEMENT REPAIRS
REMOVAL AND CONSTRUCTION
STA. 17+00 - STA. 34+00

LEGEND

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C I M

### Diagram Description

- **S INDUSTRIAL HWY**
  - Measurements and distances are indicated in feet (ft).
  - Various symbols and markings for construction elements (e.g., joints, lanes, slope restoration).
  - Specific sections and features highlighted for detailed work.

### City Information

- **City of Ann Arbor - Public Services - Engineering**
  - Address: 301 East Huron Street, P.O. Box 8647, Ann Arbor, MI 48107-8647
  - Phone: 734-794-6410
  - Website: www.a2gov.org

### Notes

- Please call before digging.
- Know what's below.
- 1" = 40'
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