

ADDENDUM No. 3

ITB No. 4667

Street Resurfacing Project - 2021

Bids Due: March 30, 2021 at 2:00 P.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 one hundred forty (140) pages.**

Bidder is to acknowledge receipt of this Addendum No. 3, including all attachments (if any) in its Bid by so indicating on page ITB-1 of the Invitation to Bid Form. Bids submitted without acknowledgment of receipt of this addendum may be considered nonconforming.

The following forms provided within the ITB document should be included in submitted bids:

- City of Ann Arbor Prevailing Wage Declaration of Compliance
- City of Ann Arbor Living Wage Ordinance Declaration of Compliance
- Vendor Conflict of Interest Disclosure Form
- City of Ann Arbor Non-Discrimination Ordinance Declaration of Compliance

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

I. CORRECTIONS/ADDITIONS/DELETIONS

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

Section/Page(s)

Change

Bid Forms/BF-1 to 8

Base Bid Forms; replace with pages Addendum-3-8 to 15. Revised to add line numbers to all pay items; added pay items _HMA Curb, Rem, HMA, 4E3, Shared use Path, Aggregate, Rem Curing Compound, for Spec Mrkg, Rem Raised Pavt Marker, and _Pavt Mrkg, Thermopl, Yield Triangle Sym, respective new line items 40, 300, 460, 515, 520 and 540; revised item number and units for _Trenching, Modified pay item; removed pay item _Pavt Mrkg, Ovly Cold Plastic, Speed Hump Chevron, White; and revised estimated quantities to pay items with new line item numbers 20, 25, 30, 35, 40, 50, 60, 65, 70, 75, 80, 95, 120, 150, 165,

Bid Forms/BF-1 to 8 (continued)	170, 175, 185, 205, 225, 230, 235, 255, 265, 270, 275, 285, 290, 295, 305, 310, 315, 325, 330, 345, 355, 360, 370, 375, 380, 385, 390, 400, 405, 415, 420, 440, 445, 450, 485, 490, 495, 500, 545, 550, 555, 560, 570, 575, 580, 600, 605, 610, 615, 625, 635, 650, 690 and 700 due the elimination of several streets from the project.
Detailed Specifications/DS-3 and 4	Detailed Specification for General Conditions; replace with pages Addendum-3-16 and 17. Revised the "Measurement and Payment" section to address placement and removal of maintenance gravel.
Detailed Specifications/DS-11 to 16	Detailed Specification for Project Schedule; replace with pages Addendum-3-18 to 22. Revised limitations related to Contractor's work operations. Revised the milestone dates including that for the completion of work. Revised "Schedule of Streets" to include South Industrial Highway; eliminate streets from Phase 1; consolidate Phases 2A and 2B into Phase 2 and eliminate several streets; eliminate streets from Phase 3; revised Open to Traffic or Completion of Work, Date Restrictions and Project Coordination, Maximum Calendar Days, and Liquidated Damages for various project locations; revised Date Restrictions and Project Coordination section to include the South Industrial Highway Concrete Pavement Repair Project, and Manchester Rd and Yost Blvd/Eli Rd sidewalk work.
Detailed Specifications/DS-18 and 19	Detailed Specification for Removing Concrete Items; replace with pages Addendum-3-23 and 24. Revised to correct various minor grammatical errors and inconsistencies.
Detailed Specifications	Insert new Detailed Specification for Hot Mix Asphalt (HMA) Curb Removal pages Addendum-3-25 and 26.
Detailed Specifications/DS-20 and 21	Detailed Specification for Vertical Exploratory Excavation; replace with pages Addendum-3-27 and 28. Revised to correct various minor grammatical errors and inconsistencies.
Detailed Specifications/DS-32	Detailed Specification for Soil Erosion and Sedimentation Control – Inlet Filter; replace with page Addendum-3-29. Revised all sections.
Detailed Specifications	Insert new Detailed Specification for Shared use Path, HMA Base Crushing and Shaping page Addendum-3-30.

Detailed Specifications	Insert new Detailed Specification for Trenching, Modified page Addendum-3-31.
Detailed Specifications/DS-38 to 40	Detailed Specification for Adjusting Structure Covers; replace with pages Addendum-3-38 to 40. Revised to clarify requirements for salvaging structure covers.
Detailed Specifications/DS-46 to 50	Detailed Specification for Structure Covers; replace with pages Addendum-3-32 to 37. Revised table to include ADA cover and revised the “Measurement and Payment” section to show relevant pay items. Added detail for new water manhole cover.
Detailed Specifications	Insert new Detailed Specification for Yard Drain Outlet Pipe and Endings pages Addendum-3-41 and 42.
Detailed Specifications/DS-54 and 55	Detailed Specification for Hot Mix Asphalt (HMA) Application Estimate; replace with pages Addendum-3-43 and 44. Revised to include South Huron Parkway and South Industrial Highway project locations. Revised performance graded binder for Shared use Path, HMA, Wedging pay item related to the Packard Street shared use path.
Detailed Specifications/DS-60 and 61	Detailed Specification for HMA Traffic Calming Measures; replace with pages Addendum-3-45 and 46. Revised the “Construction” section to address cold milling work. Revised the “Measurement and Payment” section to address cold milling and slope restoration work.
Detailed Specifications	Insert new Detailed Specification for Concrete Traffic Calming Measures pages Addendum-3-47 and 48.
Detailed Specifications/DS-68 and 69	Detailed Specification for Concrete Curb and Gutter, and Driveway Openings; replace with pages Addendum-3-49 and 50. Revised the “Construction” section to address use of the slip form method to place concrete curb and gutter. Revised the “Measurement and Payment” section to add pay item Curb and Gutter, Conc, Barrier or Mountable, Slip Form.
Detailed Specifications/DS-86	Detailed Specification for Permanent Pavement Markings; replace with page Addendum-3-51. Revised the “Measurement and Payment” section to include relevant pay items.
Detailed Specifications/DS-131	Remove Detailed Specification for Temporary Pavement Markings.

APPENDIX	Notice to Bidders - Project Coordination; replace with page Addendum-3-52.
APPENDIX	Remove Michigan Department of Transportation (MDOT) Special Provision for Vertical Exploratory Investigation.
APPENDIX	Remove Michigan Department of Transportation (MDOT) Special Provision for Erosion Control, Inlet Protection, Fabric Drop.
APPENDIX	Remove Michigan Department of Transportation (MDOT) Special Provision for Cold Milling Concrete Pavement.
APPENDIX	Remove Michigan Department of Transportation (MDOT) Special Provision for Pavement Acceptance for Jointed Plain Concrete Pavement.
APPENDIX	Remove Michigan Department of Transportation (MDOT) Special Provision for Curing Concrete Pavement Surfaces.
APPENDIX	Remove Michigan Department of Transportation (MDOT) Special Provision for Recessed Pavement Markings.
APPENDIX	Remove Michigan Department of Transportation (MDOT) Special Provision for Work Zone Signing on Local Agency Projects.
APPENDIX	General Decision Number: MI20210001 01/01/2021; replace with pages General Decision Number: MI20210001 03/12/2021 pages Addendum-3-53 to 87.
ATTACHMENTS	City of Ann Arbor Living Wage Forms; replace with pages Addendum-3-88 and 89.
Plans	Plans; replace originally issued Bid Set dated 02/20/2021 with that issued for "Addendum 3" dated 03/25/2021. Revisions are as follows.
Sheet 1	Revised sheet index and vicinity maps to address streets added to and removed from project.
Sheet 2	Revised General Notes.
Sheet 3	Added Tree Protection detail.
Sheet 4	Added Asphalt Curb Removal & Replace and Trenching Modified detail and Shared Use Path Trenching detail.
Sheets 13 and 14	Revised map to reflect removal of several streets

from project. Revised construction notes.

Sheet 15	Revised Quantities table and Construction Scope and Sequencing notes.
Sheet 23	Revised Construction Scope and Sequencing notes.
Sheet 26	Revised Quantities table and Construction Scope and Sequencing Notes.
Sheets 31 and 32	Replaced with new South Industrial Highway plan sheets
Sheet 33	Replaced with Phase 1 cover sheet.
Sheet 34	Replaced with Baldwin Avenue cover sheet. Revised Construction Scope and Sequencing notes.
Sheet 35	Replaced with Brockman Boulevard cover sheet. Revised Construction Scope and Sequencing notes.
Sheet 36	Replaced with Crestland Street cover sheet. Revised Construction Scope and Sequencing notes.
Sheet 37	Replaced with Eastover Place cover sheet. Revised Construction Scope and Sequencing notes.
Sheet 38	Revised Construction Scope and Sequencing notes.
Sheet 39	Replaced with Phase 2 cover sheet.
Sheet 40	Revised Quantities table and Construction Scope and Sequencing notes.
Sheet 41	Replaced with Chesterfield Street cover sheet. Revised Construction Scope and Sequencing notes.
Sheet 42	Replaced with Cranbrook Road cover sheet. Revised Construction Scope and Sequencing notes.
Sheet 43	Replaced with Dorchester Road cover sheet. Revised Quantities table and Construction Scope and Sequencing notes.
Sheet 44	Replaced with Manchester Road cover sheet. Revised Quantities table and Construction Scope and Sequencing notes.

Sheet 45	Replaced with Towner Boulevard cover sheet. Revised Construction Scope and Sequencing notes.
Sheet 46	Replaced with Phase 3 cover sheet.
Sheet 47	Replaced with Eddy Street cover sheet. Revised and Construction Scope and Sequencing notes.
Sheet 48	Replaced with Marshall Street cover sheet. Revised Construction Scope and Sequencing notes.
Sheet 49	Replaced with Saint Aubin Avenue cover sheet. Revised Construction Scope and Sequencing notes.
Sheet 50	Replaced with Verle Avenue cover sheet. Revised Construction Scope and Sequencing notes.
Sheet 51	Replaced with Yost Boulevard and Eli Road Sidewalk cover sheet.
Sheets 52 to 58	Removed due to various streets being eliminated from project.

II. QUESTIONS AND ANSWERS

The following Questions have been received by the City. Responses are being provided in accordance with the terms of the ITB. Offerors are directed to take note in their review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here.

Question 1: The specifications include recessing of markings, but there are not pay items associated with this work. Are the markings to be recessed or is that just a rogue specification that got inserted into the project?

Answer 1: The Michigan Department of Transportation (MDOT) Special Provision for Recessed Pavement Markings was included in the ITB No. 4667 document erroneously. Addendum No.3 directs that it be removed as there are no plans to recess any of the proposed pavement markings planned for the project.

Question 2: There appears to be some concrete work on this project for the raised crosswalk areas. These areas include pavement markings but there isn't any cure removal set up for the pavement markings. Are we to assume this was missed or is this incidental to the marking installation?

Answer 2: Failure to include the curing compound removal work in the ITB No. 4667 document was an oversight. The pay item "Rem Curing Compound, for Spec Mrkg" together with estimated quantities has been to the revised Bid Forms

being issued as part of Addendum No.3.

Question 3: Is there Engineer's Estimate for this year's project?

Answer 3: Yes, the estimated construction cost for the project is \$6,575,000.

Question 4: Is the HMA mix (5E1) and the binder performance grade (PG 64-28) for the Shared use Path, HMA, Wedging pay item shown in Detailed Specification for Hot Mix Asphalt (HMA) Application Estimate correct?

Answer 4: Yes, the HMA mix is correct; however, the binder performance grade is incorrect. It should be PG 58-28. The revised Detailed Specification for Hot Mix Asphalt (HMA) Application Estimate being issued as part of Addendum No.3 addresses this error.

Respondents are responsible for any conclusions that they may draw from the information contained in the Addendum.

BID FORM

Section 1 - Schedule of Prices

City of Ann Arbor Street Resurfacing Project - 2021
File No. 2021-004
Bid No. 4667

<u>Line No.</u>	<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
5	1047051	_Certified Payroll Compliance and Reporting	LS	1.00	\$ _____	\$ _____
10	1047051	_General Conditions, Max \$275,000.00	LS	1.00	\$ _____	\$ _____
15	1047051	_Project Supervision, Max \$50,000.00	LS	1.00	\$ _____	\$ _____
20	2030011	Dr Structure, Rem	Ea	87.00	\$ _____	\$ _____
25	2030015	Sewer, Rem, Less than 24 inch	Ft	870.00	\$ _____	\$ _____
30	2040005	Pavt, Rem	Syd	26.00	\$ _____	\$ _____
35	2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	13,691.00	\$ _____	\$ _____
40	2047001	_HMA Curb, Rem	Ft	5,281.00	\$ _____	\$ _____
45	2047001	_Exploratory Excavation, Vertical	Ft	5.00	\$ _____	\$ _____
50	2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	4,500.00	\$ _____	\$ _____
55	2050023	Granular Material, CI II	Cyd	50.00	\$ _____	\$ _____
60	2057011	_Grading, Driveway Approach	Syd	2,650.00	\$ _____	\$ _____
65	2057011	_Grading, Sidewalk	Syd	789.00	\$ _____	\$ _____
70	2057011	_Grading, Sidewalk Ramp	Syd	401.00	\$ _____	\$ _____
75	2057011	_Machine Grading, Special	Syd	61,493.00	\$ _____	\$ _____
80	2057021	_Undercutting, Type IIA	Cyd	2,117.00	\$ _____	\$ _____
85	2057021	_Undercutting, Type IIB	Cyd	50.00	\$ _____	\$ _____
90	2057021	_Undercutting, Type IIC	Cyd	150.00	\$ _____	\$ _____
TOTAL THIS PAGE						\$ _____

BID FORM

Section 1 - Schedule of Prices

<u>Line No.</u>	<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
95	2087050	Erosion Control, Inlet Protection, Fabric Drop	Ea	228.00	\$ _____	\$ _____
100	2080036	Erosion Control, Silt Fence	Ft	794.00	\$ _____	\$ _____
105	2090001	Project Cleanup	LS	1.00	\$ _____	\$ _____
110	3010002	Subbase, CIP	Cyd	50.00	\$ _____	\$ _____
115	3027011	_Aggregate Base, 6 inch, Modified	Syd	250.00	\$ _____	\$ _____
120	3027011	_Aggregate Base, 8 inch, Modified	Syd	3,280.00	\$ _____	\$ _____
125	3027031	_Aggregate Base, Modified	Ton	250.00	\$ _____	\$ _____
130	3050010	Material, Surplus and Unsuitable, Rem, LM	Cyd	15.00	\$ _____	\$ _____
135	3050015	Salv Crushed Material, LM	Cyd	25.00	\$ _____	\$ _____
140	3057011	_Shared use Path, HMA Base Crushing and Shaping	Syd	2,630.00	\$ _____	\$ _____
145	3060020	Maintenance Gravel	Ton	150.00	\$ _____	\$ _____
150	3077021	_Trenching, Modified	Cyd	1,093.00	\$ _____	\$ _____
155	3080010	Geotextile, Stabilization	Syd	100.00	\$ _____	\$ _____
160	3087011	_Structural Geogrid (Base)	Syd	250.00	\$ _____	\$ _____
165	4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	870.00	\$ _____	\$ _____
170	4021260	Trench Undercut and Backfill	Cyd	258.00	\$ _____	\$ _____
175	4030200	Dr Structure, 24 inch dia	Ea	87.00	\$ _____	\$ _____
180	4030210	Dr Structure, 48 inch dia	Ea	1.00	\$ _____	\$ _____
185	4030280	Dr Structure, Adj, Add Depth	Ft	2.00	\$ _____	\$ _____
					TOTAL THIS PAGE	\$ _____

BID FORM

Section 1 - Schedule of Prices

<u>Line No.</u>	<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
190	4030306	Dr Structure, Tap, 6 inch	Ea	5.00	\$ _____	\$ _____
195	4030312	Dr Structure, Tap, 12 inch	Ea	2.00	\$ _____	\$ _____
200	4037050	_Dr Structure Cover, Special	Ea	2.00	\$ _____	\$ _____
205	4037050	_Dr Structure Cover, Type B, Modified	Ea	110.00	\$ _____	\$ _____
210	4037050	_Dr Structure Cover, Type C, Modified	Ea	2.00	\$ _____	\$ _____
215	4037050	_Dr Structure Cover, Type D, Modified	Ea	2.00	\$ _____	\$ _____
220	4037050	_Dr Structure Cover, Type D, Modified (ADA Cover/Grate)	Ea	1.00	\$ _____	\$ _____
225	4037050	_Dr Structure Cover, Type K, Modified	Ea	106.00	\$ _____	\$ _____
230	4037050	_Dr Structure, Adj, Case 1, Modified	Ea	189.00	\$ _____	\$ _____
235	4037050	_Dr Structure, Adj, Case 2, Modified	Ea	2.00	\$ _____	\$ _____
240	4037050	_Dr Structure, Cleaning, Modified	Ea	27.00	\$ _____	\$ _____
245	4037050	_Dr Structure, Double Inlet	Ea	2.00	\$ _____	\$ _____
250	4037050	_Dr Structure, Point	Ea	15.00	\$ _____	\$ _____
255	4037050	_Dr Structure, Temp Lowering, Modified	Ea	171.00	\$ _____	\$ _____
260	4037050	_Structure, Reconstruct	Ea	2.00	\$ _____	\$ _____
265	4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	880.00	\$ _____	\$ _____
270	4047001	_Yard Drain, Outlet Ending, Plastic Pipe	Ft	7.00	\$ _____	\$ _____
275	4047050	_Yard Drain, Outlet Ending, Pop-up Apparatus	Ea	3.00	\$ _____	\$ _____
280	5010001	Pavt, Cleaning	LS	1.00	\$ _____	\$ _____
					TOTAL THIS PAGE	\$ _____

BID FORM

Section 1 - Schedule of Prices

<u>Line No.</u>	<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
285	5010002	Cold Milling HMA Surface	Syd	71,751.00	\$ _____	\$ _____
290	5010005	HMA Surface, Rem	Syd	2,571.00	\$ _____	\$ _____
295	5010025	Hand Patching	Ton	275.00	\$ _____	\$ _____
300	5010051	HMA, 4E3	Ton	592.00	\$ _____	\$ _____
305	5010061	HMA Approach	Ton	363.00	\$ _____	\$ _____
310	5010703	HMA, LVSP	Ton	13,535.00	\$ _____	\$ _____
315	5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	1,408.00	\$ _____	\$ _____
320	5017011	_Raised Crosswalk, HMA	Syd	61.00	\$ _____	\$ _____
325	5017011	_Raised Intersection, HMA	Syd	1,317.00	\$ _____	\$ _____
330	5017011	_Speed Hump, HMA	Syd	250.00	\$ _____	\$ _____
335	5017011	_Speed Table, HMA	Syd	35.00	\$ _____	\$ _____
340	5017031	_Hand Patching, Modified	Ton	100.00	\$ _____	\$ _____
345	5017031	_HMA, Wedging, 36A	Ton	12.00	\$ _____	\$ _____
350	6027011	_Raised Crosswalk, Conc	Syd	61.00	\$ _____	\$ _____
355	6027011	_Raised Intersection, Conc	Syd	1,317.00	\$ _____	\$ _____
360	6027011	_Speed Hump, Conc	Syd	250.00	\$ _____	\$ _____
365	6027011	_Speed Table, Conc	Syd	35.00	\$ _____	\$ _____
370	6027021	_Flowable Fill	Cyd	310.00	\$ _____	\$ _____
375	6030005	Cement	Ton	54.00	\$ _____	\$ _____
					TOTAL THIS PAGE	\$ _____

BID FORM

Section 1 - Schedule of Prices

<u>Line No.</u>	<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
380	8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	2,461.00	\$ _____	\$ _____
385	8017011	_Driveway, Nonreinf Conc, 8 inch, Modified	Syd	163.00	\$ _____	\$ _____
390	8027001	_Curb and Gutter, Conc, Barrier	Ft	6,290.00	\$ _____	\$ _____
395	8027001	_Curb and Gutter, Conc, Barrier or Mountable, Slip Form	Ft	5,767.00	\$ _____	\$ _____
400	8027001	_Curb and Gutter, Conc, Mountable	Ft	214.00	\$ _____	\$ _____
405	8027001	_Driveway Opening, Conc, Det M, Modified	Ft	6,484.00	\$ _____	\$ _____
410	8030030	Curb Ramp Opening, Conc	Ft	439.00	\$ _____	\$ _____
415	8037001	_Detectable Warning Surface, Modified	Ft	335.00	\$ _____	\$ _____
420	8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	3,614.00	\$ _____	\$ _____
425	8037010	_Sidewalk Ramp, Conc, 8 inch, Modified	Sft	50.00	\$ _____	\$ _____
430	8037010	_Sidewalk Retaining Wall, Integral, 6 inch to 18 inch Height	Sft	350.00	\$ _____	\$ _____
435	8037010	_Sidewalk Retaining Wall, Integral, 18 inch to 30 inch Height	Sft	150.00	\$ _____	\$ _____
440	8037010	_Sidewalk, Conc or Clay Brick Pavers, Rem and Reinstall	Sft	36.00	\$ _____	\$ _____
445	8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	4,358.00	\$ _____	\$ _____
450	8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	877.00	\$ _____	\$ _____
455	8037010	_Sidewalk, Conc, 8 inch, Modified	Sft	310.00	\$ _____	\$ _____
460	8060010	Shared use Path, Aggregate	Ton	25.00	\$ _____	\$ _____
465	8060040	Shared use Path, HMA	Ton	1,138.00	\$ _____	\$ _____
470	8067011	_Shared use Path, Grading, Modified	Syd	26.00	\$ _____	\$ _____
					TOTAL THIS PAGE	\$ _____

BID FORM

Section 1 - Schedule of Prices

<u>Line No.</u>	<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
475	8067031	_Shared use Path, HMA, Wedging	Ton	50.00	\$ _____	\$ _____
480	8087001	_Fence, Protective, Modified	Ft	1,500.00	\$ _____	\$ _____
485	8110092	Pavt Mrkg, Polyurea, 4 inch, Yellow	Ft	1,406.00	\$ _____	\$ _____
490	8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	2,455.00	\$ _____	\$ _____
495	8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	728.00	\$ _____	\$ _____
500	8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	453.00	\$ _____	\$ _____
505	8110293	Pavt Mrkg, Waterborne, for Rest Areas, Parks, & Lots, 4 inch, Blue	Ft	140.00	\$ _____	\$ _____
510	8110294	Pavt Mrkg, Waterborne, for Rest Areas, Parks, & Lots, 4 inch, White	Ft	1,764.00	\$ _____	\$ _____
515	8110321	Rem Curing Compound, for Spec Mrkg	Sft	2,860.00	\$ _____	\$ _____
520	8110332	Rem Raised Pavt Marker	Ea	4.00	\$ _____	\$ _____
525	8117050	_Pavt Mrkg, Polyurea, Speed Hump Chevron, White	Ea	66.00	\$ _____	\$ _____
530	8117050	_Pavt Mrkg, Thermopl, School	Ea	4.00	\$ _____	\$ _____
535	8117050	_Pavt Mrkg, Thermopl, Speed Hump Chevron, White	Ea	66.00	\$ _____	\$ _____
540	8117050	_Pavt Mrkg, Thermopl, Yield Triangle Sym	Ea	12.00	\$ _____	\$ _____
545	8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	75.00	\$ _____	\$ _____
550	8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	75.00	\$ _____	\$ _____
555	8120035	Channelizing Device, 42 inch, Fluorescent, Furn	Ea	233.00	\$ _____	\$ _____
560	8120036	Channelizing Device, 42 inch, Fluorescent, Oper	Ea	233.00	\$ _____	\$ _____
565	8120140	Lighted Arrow, Type C, Furn	Ea	3.00	\$ _____	\$ _____
					TOTAL THIS PAGE	\$ _____

BID FORM

Section 1 - Schedule of Prices

<u>Line No.</u>	<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
570	8120141	Lighted Arrow, Type C, Oper	Ea	12.00	\$ _____	\$ _____
575	8120252	Plastic Drum, Fluorescent, Furn	Ea	993.00	\$ _____	\$ _____
580	8120253	Plastic Drum, Fluorescent, Oper	Ea	993.00	\$ _____	\$ _____
585	8120310	Sign Cover	Ea	2.00	\$ _____	\$ _____
590	8120330	Sign, Portable, Changeable Message, Furn	Ea	8.00	\$ _____	\$ _____
595	8120331	Sign, Portable, Changeable Message, Oper	Ea	10.00	\$ _____	\$ _____
600	8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	2,828.00	\$ _____	\$ _____
605	8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	2,828.00	\$ _____	\$ _____
610	8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	364.00	\$ _____	\$ _____
615	8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	364.00	\$ _____	\$ _____
620	8120370	Traf Regulator Control	LS	1.00	\$ _____	\$ _____
625	8127050	_Pedestrian Type II Barricade, Temp	Ea	57.00	\$ _____	\$ _____
630	8127050	_Pedestrian Type II Channelizer, Temp	Ea	8.00	\$ _____	\$ _____
635	8127050	_Temporary No Parking Sign	Ea	616.00	\$ _____	\$ _____
640	8127051	_Minor Traffic Control, Max \$100,000.00	LS	1.00	\$ _____	\$ _____
645	8157060	_Irrigation System, Protection and Maintenance	Dir	2,500.00	\$ _____	\$ _____
650	8167011	_Slope Restoration	Syd	6,700.00	\$ _____	\$ _____
655	8190159	Conduit, Schedule 80 PVC, 3 inch	Ft	50.00	\$ _____	\$ _____
660	8190244	Hh, Adj	Ea	2.00	\$ _____	\$ _____
TOTAL THIS PAGE						\$ _____

BID FORM

Section 1 - Schedule of Prices

<u>Line No.</u>	<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
665	8197050	_Handhole Assembly, 12 Inch x 18 Inch	Ea	1.00	\$ _____	\$ _____
670	8197050	_Handhole Assembly, 17 Inch x 30 Inch	Ea	1.00	\$ _____	\$ _____
675	8197050	_Handhole Assembly, 24 inch x 36 inch	Ea	1.00	\$ _____	\$ _____
680	8217050	_Monument Box, Adj	Ea	5.00	\$ _____	\$ _____
685	8230421	Water Shutoff, Adj, Case 1	Ea	5.00	\$ _____	\$ _____
690	8230431	Gate Box, Adj, Case 1	Ea	30.00	\$ _____	\$ _____
695	8230432	Gate Box, Adj, Case 2	Ea	5.00	\$ _____	\$ _____
700	8507050	_HMA Surface, Around Structure Cover, Rem	Ea	78.00	\$ _____	\$ _____
TOTAL THIS PAGE						\$ _____
TOTAL FROM PAGE Addendum-3-8						\$ _____
TOTAL FROM PAGE Addendum-3-9						\$ _____
TOTAL FROM PAGE Addendum-3-10						\$ _____
TOTAL FROM PAGE Addendum-3-11						\$ _____
TOTAL FROM PAGE Addendum-3-12						\$ _____
TOTAL FROM PAGE Addendum-3-13						\$ _____
TOTAL FROM PAGE Addendum-3-14						\$ _____
TOTAL BASE BID						\$ _____

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
GENERAL CONDITIONS

AA:DAD

1 of 2

03/09/21

a. Description. This item comprises all work described and required by the plans and specifications at each project location for which the contract contains no item(s) of work, including but not limited to the following:

- Scheduling, coordination, and organization of all work, subcontractors, suppliers, quality control testing, inspection, surveying, and staking.
- Coordination of, and cooperation with, other contractors, agencies, departments, and utilities.
- Protection and maintenance of utilities.
- Maintaining drainage.
- Furnishing, placement, and grading of maintenance gravel to construct any temporary driveways, sidewalks and/or sidewalk ramps necessary for construction of the proposed work.
- Maintaining driveways and driveway openings, sidewalks, bike paths, mail deliveries, and solid waste/recycle/compost pick-ups. This includes maintenance of temporary gravel as required and directed by the Engineer.
- Storing all materials and equipment off lawn areas.
- Temporary relocation and final replacement/re-setting of mailboxes.
- Coordination efforts to furnish various HMA mixtures as directed by the Engineer
- Coordination efforts to furnish and operate various-size vehicles/equipment as directed by the Engineer
- Furnishing and operating vacuum-type street cleaning equipment a minimum of once per week or more frequently as directed by the Engineer
- Protecting all sewers, and drainage and utility structures including manholes, gate wells, valve boxes, inlet structures, roadside ditches, and culverts from damage and contamination by debris and construction materials. Keeping structures and culverts clean of construction debris and properly covered/protected at all times during the construction. Immediately cleaning any structures, sewers, culverts and/or roadside ditches contaminated with construction debris resulting from Contractor operations and/or work activities.
- Disposing of excavated materials and debris - The Contractor shall dispose of, at the Contractor's expense, all excavated material. The Engineer will not pay for any costs associated with this work separately.
- Furnishing and operating vacuum-type utility structure cleaning equipment
- Furnishing and operating both vibratory plate and pneumatic-type ("pogo-stick") compactors
- Furnishing and operating a backhoe during all work activities

- Furnishing and operating a jackhammer and air compressor during all work activities
- Noise and dust control
- Mobilization(s) and demobilization(s).
- Furnishing submittals and certifications for materials and supplies.
- All miscellaneous and incidental items such as overhead, insurance, and permit fees.
- Meeting all requirements relating to Debarment Certification, Davis Bacon Act, and Disadvantaged Business Enterprise, and providing the necessary documentation.

The Appendix of the contract documents provides data pertaining to existing soil borings to assist the Engineer and Contractor with determining the soil conditions within the construction area. The City in no way guarantees existing conditions to be the same as shown in the data. The Contractor is solely responsible for any/all conclusions it may draw from the data.

Quantities as given are approximate and are estimates for bidding purposes. The City does not guarantee their totals and they may vary by any amount. While it is the City's intent to complete the project substantially as drawn and specified herein, quantities may be changed or reduced to zero for cost savings or other reasons. **The City reserves the right to change the quantities; however, the City will not allow the Contractor to adjust unit price(s) due to such change.**

b. Materials. None Specified.

c. Construction. Not specified.

d. Measurement and Payment. Measure and pay for the completed work, as described, at the contract unit price using the following pay item:

<u>Pay Item</u>	<u>Pay Unit</u>
General Conditions, Max \$_____	Lump Sum

Measure **General Conditions, Max \$_____** by the unit lump sum and pay for it at the contract unit price, which price includes costs for all labor, equipment and materials necessary to complete the work.

The Contractor is fully responsible for all direct and/or indirect damages to property caused by unclean or damaged sewers or structures resulting from its operations and/or work activities including any/all cost associated with such damages.

Measurement will be on a pro rata basis at the time of each progress payment and based on the ratio of work completed during the payment period and the total contract amount. When all of the work of this Contract is complete, the measurement of this item shall be 1.0 Lump Sum, less any deductions incurred for inadequate performance as described herein. This amount will not increase for any reason, including extensions of time, extras, and/or additional work.

Placement and removal of temporary gravel necessary to maintain driveways and driveway openings, sidewalks, bike paths, mail deliveries, and solid waste/recycle/compost pick-ups will be paid separately at the contract unit price for **Maintenance Gravel**.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PROJECT SCHEDULE

AA:DAD

1 of 3

03/23/21

Complete the entirety of work under this Contract in accordance with, and subject to, the scheduling requirements as outlined below, and all other requirements of the Contract Documents.

Organize, coordinate and diligently execute the work at the locations shown on the Schedule of Streets included herein. This schedule details the requirements, if any, for the Start of Work (on or after dates specified), the Completion of Work (on or before dates specified), Restricted Dates, the Maximum Calendar Days for Open to Traffic, and the Liquidated Damages per Calendar Day for each street or phase of work. For the purpose of this Contract, the "Start of Work" definition is the date when the temporary "No-Parking" signs become effective and all required temporary traffic control and SESC measures are in place and ready for use. The City will consider individual major street locations and local street phases to be open to traffic once they have met the "Approved for Traffic" requirements defined in subsection 107.21 of the Michigan Department of Transportation 2012 Standard Specifications for Construction. Within 10 days of opening to traffic an individual major street location or local street phase the Contractor shall complete all work, which includes, but is not limited to, placement of permanent pavement markings, minor slope restoration, clean-up, street cleaning, underground utility and utility structure cleaning (minor street phases), the removal of all temporary traffic control and SESC devices and temporary "No Parking" signs, and other necessary work and as directed by the Engineer. Failure to complete work in a timely manner may result in the suspension of active project work or a delay in starting subsequently planned project work.

The Engineer shall limit the Contractor's work operations to the number of streets that, in its opinion, is reasonable to allow for proper and thorough inspection, and to limit traffic control and/or safety concerns. The Contractor shall not have more than one (1) major street or shared use path locations and one (1) local phase "active" simultaneously at any given time throughout the project unless otherwise noted in the Schedule of Streets or approved by the Engineer. In addition, no more than four (4) operations shall occur simultaneously at all locations during any work day. A location is "active" if work has begun and it has not yet been completed.

Conduct the local street phased work as shown on the Schedule of Streets beginning with one phase and opening it to traffic before progressing to the next and continue in this manner until all phases are complete. Begin work on Phase 1 and continue in order through Phase 3 unless otherwise directed or approved by the Engineer. The Engineer will allow preparation of subsequent project phase work up to five (5) days in advance of the planned open to traffic date for the phase on which the Contractor is currently working. This work includes placement/installation of temporary "No-Parking" signs and temporary traffic control and SESC devices. In no case will work be allowed to progress on a subsequent project phase beyond that considered preparational until the current phase is open to traffic or the Engineer directs otherwise. During this five (5) day period the Contractor will cover all temporary "No-Parking" and temporary traffic control signs by methods approved by the Engineer until such time they become effective and are needed for use.

The City expects to furnish the Contractor with two (2) copies of the Contract, for its execution, on or before **April 2, 2021**. The Contractor shall properly execute both copies of the Contract and return them, with the required Bonds and Insurance documentation, to the City by **April 30, 2021**. The Contractor shall not begin the work before the applicable date(s) as described herein without approval from the Project Engineer, and in no case before the receipt of the fully executed Contract and Notice to Proceed.

By no later than **May 3, 2021**, the Contractor shall submit a detailed schedule of work (progress schedule) for the Engineer's review and approval. The progress schedule must fully comply with the scheduling requirements contained on the Schedule of Streets. The schedule shall clearly indicate, in detail, the start and the finish date of each work task on each street. The Contractor shall update the approved progress schedule each week and present it to the Engineer at the weekly progress meeting and must consult with the Engineer for review and approval of any proposed deviations from the most current, approved, schedule.

The Contractor shall begin the work of this project on or after **May 10, 2021**, and only upon receipt of the fully executed Contract, Notice to Proceed and approved Progress Schedule. The City will consider granting appropriate time extensions should delays prevent the Contractor from starting work on this date.

Complete the entire project on or before **November 8, 2021**. Completion of the project means all locations shown on the Schedule of Streets are complete and ready for use in accordance with the "Completion of Work" as defined above.

Failure to open to traffic or complete all work as specified within the times specified, including time extensions granted thereto as determined by the Engineer, shall entitle the City to deduct dollar amounts specified in the Schedule of Streets as "Liquidated Damages" from the payments due the Contractor. The City will assess "Liquidated Damages" for delays in the opening to traffic and/or the completion of work for each street or phase, for each calendar day the street or phase remains unopen and/or the work remains incomplete beyond the required contract completion date or timeframe.

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 intermediate (location specific) and final completion dates. 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.

The Engineer may delay or stop the work due to threatening weather conditions. No compensation shall be due the Contractor for unused materials or downtime due to rain, or the threat of rain. The Contractor is solely responsible for repairing all damages to the work and to the site, including any City infrastructure, and any adjacent properties resulting from its decision to work in the rain.

The Contractor shall not work in the dark except as approved by the Engineer and shall provide lighting for night work as detailed elsewhere in this contract. The Engineer may stop the work or may require the Contractor to defer certain work to another day, if, in the Engineer's opinion, the Contractor cannot be complete the work within the remaining daylight hours, or if inadequate daylight is present to properly perform or inspect the work. No compensation shall be due to the Contractor for unused materials or downtime, when the Engineer directs work stoppage for reasons due to darkness and/or inadequate remaining daylight. The Contractor is solely responsible for repairing all damages to the work and to the site, including any City infrastructure, and any adjacent properties, which result from working in the dark.

Assessment of Liquidated Damages will occur until the required work is complete in the current construction season. If, with the Engineer's approval, work extends beyond seasonal limitations, the assessment of Liquidated Damages will discontinue until the work resumes in the following construction season.

If the construction contract is not complete within the specified period(s) including any extensions of time granted thereto, at the sole discretion of the City of Ann Arbor it may terminate the Contract. Should this occur no additional compensation will be 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, payment for contract items with a Lump Sum unit price will be up to a maximum amount equal to the percentage of the contract work that is complete at the time of termination.

The City's decision to delete streets or phases, add streets, change the construction limits on streets, or, the City's contribution to a delay of the construction on any one street shall not entitle the Contractor to receive additional compensation for work on any other street(s) or phase(s), nor shall it relieve the Contractor of any responsibilities for completion of work on any other street(s) or phase(s).

Include any/all efforts to organize, coordinate, and schedule the project work in the contract unit price bid for the pay item **General Conditions, Max \$_____**.

Street Resurfacing Project – 2021
Schedule of Streets

Location (Street)	Limits of Work	Start of Work	Open to Traffic or *Completion of Work	Date Restrictions and Project Coordination	**Maximum Calendar Days	Liquidated Damages per Calendar Day
MAJOR STREETS						
Packard Street Shared Use Path	Independence Blvd to Platt Rd			AAATA, INDP, MMRL, UMFB	28	\$750
Huron Parkway approach to Lindsay Lane	Deceleration/right turn lane approach to Lindsay Ln		05/28/2021	AAATA	10	\$200
South Industrial Highway	HMA pavement north of E Eisenhower Pkwy and south of E Stadium Blvd		07/31/2021	AAATA, INDP, INDST, MMRL	7	\$500
MINOR (LOCAL) STREETS						
Phase 1						
Baldwin Avenue	Packard St to E Stadium Blvd			AAPS1, MMRL	49	\$750
Brockman Boulevard	Packard St to E Stadium Blvd					
Crestland Street	Packard St to Amelia Pl					
Eastover Place/ Ferdon Road	Packard St to Crestland St					
Saint Francis Drive	Amelia Pl to Nature Cove Ct					
Phase 2						
Canterbury Road	Towner Blvd to Platt Rd			AAPS1, AAPS2, INDP, LABR, SDWLK	87	\$750
Chesterfield Street	Packard St to Cranbrook Rd/ Hampshire Rd					
Cranbrook Road	Chesterfield St/Hampshire Rd to Towner Blvd					
Dorchester Road	Manchester Rd to Towner Blvd					
***Manchester Road	End of Concrete Pavement to Washtenaw Ave					
Towner Boulevard	Dorchester Rd to Hampshire Rd					

Street Resurfacing Project – 2021

Schedule of Streets

Location (Street)	Limits of Work	Start of Work	Open to Traffic or *Completion of Work	Date Restrictions and Project Coordination	**Maximum Calendar Days	Liquidated Damages per Calendar Day
MINOR (LOCAL) STREETS - CONTINUED						
Phase 3						
Eddy Street	Verle Ave to Southerly End			SDWLK	49	\$750
Marshall Street	Verle Ave to Verle Ave					
Saint Aubin Avenue	La Salle St to Creek Dr					
Verle Avenue	Westerly End to Platt Rd					
***Yost Boulevard & Eli Road Sidewalk	East and north sides fronting Forestbrooke Athletic Club					
Traffic Calming						
Glenwood Road	Washtenaw Ave to Override Dr	07/01/2021		INDP, LABR	28	\$250

*Complete all work required for this project location by the date shown.

**Maximum calendar days allowed to open project location or phase to traffic, or to complete all required work if so designated in the above table.

Date Restrictions and Project Coordination

AAATA - Coordinate work and maintenance of traffic with that of the Ann Arbor Area Transportation Authority for bus route service.

AAPS1 - No work permitted when Ann Arbor Public Schools are in session (before June 14, 2021 or after August 28, 2021).

AAPS2 - Coordinate work and maintenance of traffic with City of Ann Arbor Public Schools Allen Elementary School site work.

INDP - No work during the Independence Day holiday period from 3:00 p.m. July 2 to 7:00 a.m. July 6, 2021.

INDST - Coordinate work and maintenance of traffic with South Industrial Highway Concrete Pavement Repair Project.

MMRL - No work during the Memorial Day holiday period from 3:00 p.m. May 28 to 7:00 a.m. June 1, 2021.

LABR - No work during the Labor Day holiday period from 3:00 p.m. September 3 to 7:00 a.m. September 7, 2021.

SDWLK - Manchester Road & Yost Boulevard/Eli Road sidewalk work to start on or after July 1, 2021.

UMFB - No work permitted during scheduled home game dates (TBD) for University of Michigan Football.

Notes

1. Date Restrictions shown above are based on a preliminary project construction schedule developed by the City for planning purposes. These may change for project locations with no specific required start and/or open to traffic or completion of work dates.
2. Work operations on the Huron Parkway and Glenwood Avenue locations are not included in the limitations specified in the Project Schedule and may occur in conjunction with one (1) major street or shared use path location and one (1) local phase; however, the Contractor will not be permitted to work on any of these locations simultaneously unless approved by the Engineer.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
REMOVING CONCRETE ITEMS

AA:DAD

1 of 2

03/17/21

a. Description. This work consists of removing concrete items including curb, gutter, curb and gutter, integral curb, sidewalk, sidewalk ramps, driveway openings, and driveway approach pavements as shown on the plans, in accordance with section 204 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, except as specified herein, and as directed by the Engineer.

b. Materials. Provide materials in accordance with those specified in section 204 of the MDOT Standard Specifications for Construction.

c. Construction. Complete this work, as applicable, according to in section 204 of the MDOT 2012 Standard Specifications for Construction, as described below, and as directed by the Engineer.

Replace concrete curb, gutter, curb and gutter, sidewalk, sidewalk ramps, drive openings, and driveway approaches within 24 hours of their removal.

Prior to the start of work, the Engineer and Contractor together will identify, and field measure all concrete removal items. The Engineer will approve of all removal limits prior to the Contractor performing any concrete removal work.

Perform full-depth saw cutting at removal limits, including those necessary to construct 2-foot wide "Det M" driveway openings, and including those necessary to provide for the partial removal of existing drive approaches as shown on the plans, as directed by the Engineer, and as marked for removal. The Contractor shall cut steel reinforcement bars as directed by the Engineer at all areas of removal. Perform any/all saw cutting under wet conditions to prevent excessive airborne dust. Clean up any/all resulting slurry and debris to the satisfaction of the Engineer immediately after performing saw cutting work.

The work includes excavation of any/all concrete designated for removal; stump and brush removal, as required; disposal of removed materials; and backfilling and compaction, as required.

The Contractor will coordinate with the City Forester prior to the removal of any tree roots.

At various times throughout the work, the Engineer may direct the Contractor to use smaller and/or lighter equipment, and to defer certain work tasks, in order to protect the grade and/or adjacent areas. The Contractor shall not be entitled to any additional compensation for the use of smaller equipment, lighter equipment, or work task deferral.

Use blade graders, maintainers, vibratory rollers, and/or other equipment as necessary, and as directed by the Engineer. The use of each specific piece of equipment is subject to the approval of the Engineer.

Where replacing existing concrete curb or curb and gutter on a street with a concrete (or brick) base, the Engineer may direct the Contractor to remove a one (1) foot wide, full-depth section of pavement and pavement base immediately in front of the curb and gutter. As part of this pavement/base removal, the Contractor will perform additional (double) full-depth saw-cutting along the entire removal limits and take sufficient care so as not to damage and/or disturb any adjacent pavement, pavement base, and/or any other site feature, all as directed by the Engineer. The removals will be to a sufficient width and depth to allow for the placement and removal of the curb and gutter formwork. After the removal of the formwork, the Contractor will replace the concrete base to its original thickness and elevation(s).

At all times protect all excavated/removal areas with barricades and/or fencing.

Removed or excavated materials not incorporated into the work will become the property of the Contractor and be immediately removed and properly disposed of off-site. DO NOT stockpile overnight on site, or adjacent to it, any removed or excavated materials.

Replace and compact any/all base, subbase, or subgrade materials removed without authorization with materials specified by the Engineer. The Contractor will perform this work at its expense.

d. Measurement and Payment. Measure and pay for the completed work, as described, at the respective contract unit prices using the following respective pay items:

<u>Pay Item</u>	<u>Pay Unit</u>
Curb, Gutter, and Curb and Gutter, Any Type, Rem	Foot
Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Square Yard

Measure **Curb, Gutter, and Curb and Gutter, Any Type, Rem** lengths in place by the unit foot and pay for it at the contract unit price, which price includes the costs for all labor, equipment and materials necessary to complete the work.

Measure **Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem** areas in place by the square yard and pay for it at the contract unit price, which price includes the costs for all labor, equipment and materials to complete the work.

Saw cutting is not a separate contract pay item. Include payment for this work in the appropriate item of work for which it applies. The Contractor shall include any/all costs for saw cutting to remove concrete items including curb, gutter, curb and gutter, integral curb, sidewalk, sidewalk ramps, driveway openings, and driveway approach pavements in the respective contract unit prices bid for **Curb, Gutter, and Curb and Gutter, Any Type, Rem** and **Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem**.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
HOT MIX ASHALT (HMA) CURB REMOVAL

AA:DAD

1 of 2

03/25/21

a. Description. This work consists of removing hot mix asphalt (HMA) curb as shown on the plans, in accordance with section 204 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, as specified herein, and as directed by the Engineer.

b. Materials. Provide materials in accordance with those specified in section 204 of the MDOT Standard Specifications for Construction.

c. Construction. Complete this work, as applicable, according to in section 204 of the MDOT 2012 Standard Specifications for Construction, as described below, and as directed by the Engineer.

Prior to the start of work, the Engineer and Contractor together will identify, and field measure the HMA curb removal work. The Engineer will approve of all removal limits prior to the Contractor performing any work.

The Contractor will coordinate with the City Forester prior to the removal of any tree roots.

At various times throughout the work, the Engineer may direct the Contractor to use smaller and/or lighter equipment, and to defer certain work tasks, in order to protect the grade and/or adjacent areas. The Contractor shall not be entitled to any additional compensation for the use of smaller equipment, lighter equipment, or work task deferral.

Use blade graders, maintainers, vibratory rollers, and/or other equipment as necessary, and as directed by the Engineer. The use of each specific piece of equipment is subject to the approval of the Engineer.

Excavated/removal areas shall be adequately protected with barricades and/or fencing at all times.

Removed or excavated materials not incorporated into the work will become the property of the Contractor and be immediately removed and properly disposed of off-site. DO NOT stockpile overnight on site, or adjacent to it, any removed or excavated materials.

Replace and compact any/all base, subbase, or subgrade materials removed without authorization with materials specified by the Engineer. The Contractor will perform this work at its expense.

d. Measurement and Payment. Measure and pay for the completed work, as described, at the respective contract unit prices using the following pay item:

<u>Pay Item</u>	<u>Pay Unit</u>
HMA Curb, Rem	Foot

Measure **HMA Curb, Rem** length in place by the unit foot and pay for it at the contract unit price, which price includes the costs for all labor, equipment and materials necessary to complete the work.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
VERTICAL EXPLORATORY EXCAVATION

AA:DAD

1 of 2

03/17/21

a. Description. The use of this detailed specification is to compensate the Contractor to locate underground infrastructure, such as culverts, sewers, utilities, and/or to expose the existing pavement section. Use must only be as directed and approved by the Engineer. This detailed specification is not to compensate the Contractor for the responsibilities in subsection 107.12 of the Standard Specifications for Construction.

This work consists of conducting a vertical exploratory investigation to expose an existing culvert, sewer, utility/utility service, or the existing pavement section in order to verify the location, condition, size, material, alignment and/or composition; allowing the Engineer to document the necessary information; and backfilling the excavation. It includes providing necessary lane, shoulder and/or sidewalk closures required to perform the work.

The intent of "Exploratory Excavation" is not to provide a means for the Contractor to locate each existing utility throughout the project, but for those that appear to be in conflict with the proposed work and their location is unclear or unknown. The Contractor is responsible for "using reasonable care to establish the precise location of the underground facilities in advance of construction" (Public Act 174 of 2013 - Miss Dig Law) as a part of the overall project contract.

b. Materials. Use Granular Material Class III in accordance with section 902 of the Standard Specifications for Construction for backfill. Use material removed during exploratory investigation for backfill only if approved by of the Engineer.

c. Construction. The owner of any sewer or utility to be exposed will not take the facilities out of service during the exploratory investigation. Contact utility owners in accordance with subsection 107.12 of the Standard Specifications for Construction.

Establish necessary lane, shoulder and/or sidewalk closures required to perform work.

Advance the exploratory excavation using vacuum excavation, hand digging, conventional machine excavation, or a combination thereof subject to approval of the Engineer. Allow the Engineer access to document the necessary information. If the technique used to advance the excavation causes any damage to the existing facilities, immediately contact the utility owner and cease all work until Engineer approves of an alternate method.

Take care to protect the exposed culvert, sewer or utility from damage during construction. Repair or replace culvert, sewer or utility, damaged during exploratory excavation, in accordance with the standard specifications and as approved by the Engineer.

Obtain the Engineer's approval before backfilling the excavation. Complete backfilling no later than 24 hours after approval. Backfill in accordance with subsection 204.03.C of the Standard Specifications for Construction. Dispose of excess material in accordance with the standard specifications.

The Contractor is responsible for all costs associated with the repair work and out of service time of all broken or damaged existing culverts, sewers or utilities resulting from any action by the Contractor. If the exploratory investigation results in damage to utilities, contact the owner of such utility to coordinate the repair.

d. Measurement and Payment. Measure and pay for the completed work, as described, at the contract unit price for the following pay item:

<u>Pay Item</u>	<u>Pay Unit</u>
Exploratory Excavation, Vertical	Foot

Measure **Exploratory Investigation, Vertical** by the foot from top of existing grade vertically to the bottom of the excavation for a 4-foot maximum diameter hole, or as approved by the Engineer. Measure and pay for the excavated depth of each 4-foot maximum diameter hole separately. One paid excavation may include multiple utility verifications if the utilities are close in proximity.

Exploratory Investigation, Vertical includes all cost for labor, equipment and materials necessary to complete the work, including all costs associated with repair or replacement resulting from the Contractor's activities.

CITY OF ANN ARBOR
 DETAILED SPECIFICATION
 FOR
SOIL EROSION AND SEDIMENTATION CONTROL – INLET FILTER

AA:DAD

1 of 1

03/24/21

a. Description. This work consists of furnishing, installing, maintaining and removing inlet filters at the locations shown on the plans or as directed by the Engineer in accordance with section 208 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction.

b. Materials. The following devices are approved for use as acceptable alternatives:

1. Siltsack Type B, Regular Flow, by ACF Environmental, Inc.
2. Inlet Pro Sediment Bag, Standard Flow, with optional foam deflector by Hanes GeoComponents.
3. Dandy Curb Bag, Dandy Bag, Dandy Curb Sack, Dandy Sack, or Dandy Pop by Dandy Products, Inc.
4. Basin Bag, Regular Flow by CSI Geoturf.
5. Flexstorm Catch-It and Flexstorm Pure used with filter bag types FX, FX+, FXO, PC, PC+ or IL.

Ensure provided devices are sized appropriately for the drainage structures/inlets in which they will be installed. Submit product data sheets for device(s) proposed for use to the Engineer for approval prior to ordering materials.

c. Construction. Install, maintain and remove the devices according with the manufacturer's guidelines. Remove material collected by the devices according to the manufacturer's guidelines or as directed by the Engineer.

Install filters in existing and proposed drainage structures/inlets to restrict and minimize amounts of sediment entering into the storm sewer system and water courses. Maintain devices for the duration of the project as required and directed by the Engineer. Remove accumulated sediment, clean and reinstall devices to provide for properly working devices and a well-drained site. Dispose of collected material in accordance with subsection 205.03.P of the MDOT 2012 Standard Specifications for Construction. Replace damaged devices if required or directed by the Engineer.

Those devices that are no longer needed and have been removed may be reused elsewhere on the project as approved by the Engineer.

d. Measurement and Payment. Measure and pay for the completed work, as described, at the contract unit price for the following pay item:

<u>Pay Item</u>	<u>Pay Unit</u>
Erosion Control, Inlet Filter	Each

Measure **Erosion Control, Inlet Filter** individually in place by unit each and pay for it at the contract unit price, which price includes all costs for labor, equipment and materials necessary to furnish, install, maintain, dispose of collected material, replace and remove the inlet filter.

CITY OF ANN ARBOR
 DETAILED SPECIFICATION
 FOR
SHARED USE PATH, HMA BASE CRUSHING AND SHAPING

AA:DADCAE

1 of 1

03/25/2021

a. Description. This work consists of constructing new aggregate base from an existing shared use path flexible pavement in accordance with section 305 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, as specified herein, and as directed by the Engineer.

b. Materials. Use materials meeting the requirements specified in subsection 305.02 of the MDOT 2012 Standard Specifications for Construction.

c. Construction. Use construction methods meeting the requirements specified in subsection 305.03 of the MDOT 2012 Standard Specifications for Construction.

Coordinate any/all trimming and pruning of trees, shrubs, or other vegetation necessary to complete this work with the City of Ann Arbor Public Works or an authorized subcontractor. Schedule trimming and pruning work to be complete in advance of performing any other work on site.

d. Measurement and Payment. Measure and pay for the completed work, as described, at the contract unit price using the following pay item:

<u>Pay Item</u>	<u>Pay Unit</u>
Shared use Path, HMA Base Crushing and Shaping.....	Square Yard

Measure **Shared use Path, HMA Base Crushing and Shaping** area by the unit square yard and pay for it at the contract unit price, which price includes costs for all labor, equipment and materials necessary to complete the work.

Measure and pay for separately **Material, Surplus and Unsuitable, Rem, LM** at the contract unit price.

Measure and pay for separately **Salv Crushed Material, LM** at the contract unit price.

The Contractor, at its sole expense, will remedy, as directed by the Engineer, any damage to the foundation, pathway, or roadway embankment or subgrade caused by traffic or its operations.

The Engineer will not pay additional compensation or allow extensions of contract time for additional measures required to protect the grade as specified.

The Engineer will not pay additional compensation or allow extensions of contract time for tree trimming measures and coordination of this work with City forces.

The Engineer will pay for the trimming and pruning of trees by an authorized subcontractor, if necessary, as extra work.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
TRENCHING, MODIFIED

AA:DAD

1 of 1

03/25/21

a. Description. This work consists of excavation necessary to construct concrete curb and gutter on streets with HMA curb and to widen the base grade to construct a uniform width shared use path in accordance with the plans as described herein and as directed by the Engineer. It includes providing all materials, labor and equipment necessary to remove the existing hot mix asphalt (HMA) or topsoil surface and excavating the underlying base or subgrade material to the grade, shape, width and depth specified on the plans.

b. Materials. None specified.

c. Construction. Complete this work according to sections 307 and 501 of the Standard Specifications for Construction, as shown on the plans and as specified herein.

1. Use a cold milling machine or other Engineer approved method for all removal and excavation.
2. Perform full-depth saw cutting at the limits marked for removal on streets with HMA curb unless using cold milling method to remove the existing pavement. Perform any/all saw cutting under wet conditions to prevent excessive airborne dust. Clean up any/all resulting slurry and debris to the satisfaction of the Engineer immediately after performing saw cutting work.
3. Remove the existing HMA surface and excavate underlying base or subgrade material.
4. Shape, grade and compact trench to the width and depth required as directed by the Engineer or as shown in the plans.
5. Remove trenched material from the project immediately.

d. Measurement and Payment. Measure and pay for the completed work, as described, at the respective contract unit prices using the following pay item:

Pay Item	Pay Unit
Trenching, Modified.....	Cubic Yard

Measure **Trenching, Modified** in place by length, width and depth to calculate the unit cubic yard volume and pay for it at the contract unit price, which price includes the costs for all labor, equipment and materials necessary to complete the work.

Removal of the existing HMA surface will not be paid for separately, but will be included in the payment for **Trenching, Modified**.

Saw cutting required to remove the existing pavement is not a separate contract pay item. The Contractor shall include any/all costs for it in the unit price for **Trenching, Modified**.

CITY OF ANN ARBOR
 DETAILED SPECIFICATION
 FOR
STRUCTURE COVERS

AA:DAD

1 of 2

03/25/21

a. Description. This work shall consist of replacing and furnishing frames and covers for utility (storm, sanitary, and water) structures as shown on the plans and as directed by the Engineer, in accordance with section 403 of the edition of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, except as specified herein.

b. Materials. Provide materials meeting the requirements of subsection 403.02 and section 908 of the MDOT 2012 Standard Specifications. Provide frames and covers conforming to the model(s) shown in the table below, or equivalent approved by the Engineer.

Type of Casting	Associated Pay Item (MDOT Designation)	EJ No.	NEENAH No.
Manhole Frame and Cover (sanitary sewer)	Dr Structure Cover, Special	1040AGS	
Manhole Frame and Cover (storm sewer and water)	Dr Structure Cover, Type B, Modified (Cover B)	1040 w/ Type A Cover Type M1	
Curb Inlet/Catch Basin Frame and Cover (mountable curb & gutter)	Dr Structure Cover, Type C, Modified (Cover C)	7045Z w/ 7045M1 Sinusoidal Grate	R-3249F
Flat Inlet Frame and Cover	Dr Structure Cover, Type D, Modified (Cover D)	5000 w/ Type M2 Sinusoidal Grate	
Flat Inlet Frame and Cover	Dr Structure Cover, Type D, Modified (ADA Cover/Grate) (Cover D)	5000 w/ Type M3 ADA Grate	
Curb Inlet/Catch Basin Frame and Cover (barrier curb & gutter)	Dr Structure Cover, Type K, Modified (Cover K)	7045Z w/ 7045M1 Sinusoidal Grate	R-3249F

Provide frames and covers with machined bearing surfaces.

Provide manhole covers labeled with "CITY OF ANN ARBOR" and "WATER", "STORM", or "SANITARY" whichever is applicable. Use the City's custom logo in use at the time of the project (see drawings attached).

Use Dr Structure Cover, Special for all sanitary sewer manhole covers unless otherwise directed by the Engineer.

Frames and covers for monument and gate (water-valve) boxes will be provided by the City of Ann Arbor. The Contractor shall transport these to the site from the City's W.R. Wheeler Service Center located at 4251 Stone School Road.

c. Construction. The Contractor shall store materials on site and/or at locations arranged by the Contractor, subject to the approval of the Engineer. The Contractor shall not store materials or equipment, including metal castings and steel plates, on any lawn areas.

The Contractor shall deliver all salvaged city owned utility structure covers and castings to the W.R. Wheeler Service Center within two days of their removal.

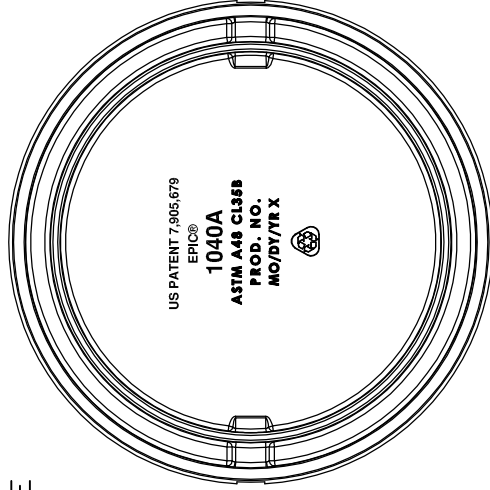
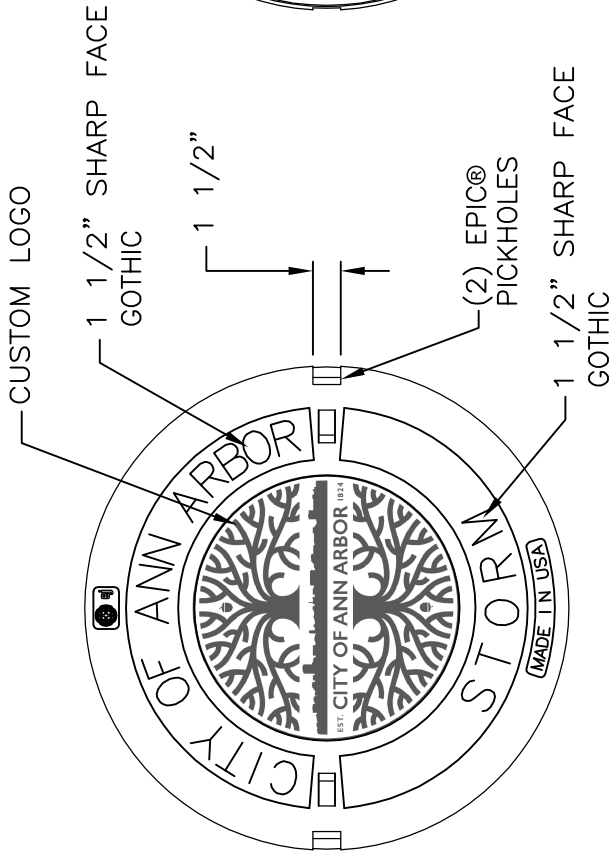
d. Measurement and Payment. Measure and pay for the completed work, as described, at the respective contract unit prices using the following respective pay items:

<u>Pay Item</u>	<u>Pay Unit</u>
Dr Structure Cover, Special	Each
Dr Structure Cover, Type B, Modified	Each
Dr Structure Cover, Type D, Modified	Each
Dr Structure Cover, Type D, Modified (ADA Cover/Grate).....	Each
Dr Structure Cover, Type K, Modified	Each

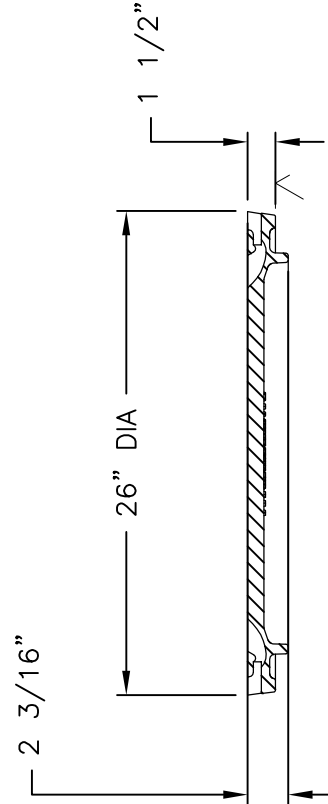
Measure **Dr Structure Cover, Type __, Modified; Dr Structure Cover, Type __, Modified (ADA Cover/Grate);** and **Dr Structure Cover, Special** individually in place by their respective units each and pay for them at their respective contract unit prices, which prices include all cost for labor, equipment and materials necessary to complete the work.

Payment for transporting new covers to the project site from the W.R. Wheeler Center is included in the unit prices bid for the above drainage structure cover items of work.

1040A Cover



BOTTOM VIEW



SECTION



EPICOR® DETAIL

Product Number

001040325

Design Features

- Materials Gray Iron (CL35B)
- Design Load Heavy Duty
- Open Area n/a
- Coating Dipped
- Designates Machined Surface

Certification

- ASTM A48
- Country of Origin: USA

Drawing Revision

5/4/2018 Designer: DAE
8/29/2018 Revised By: DAE

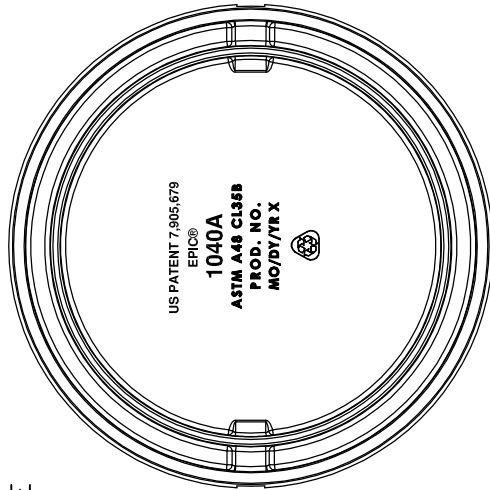
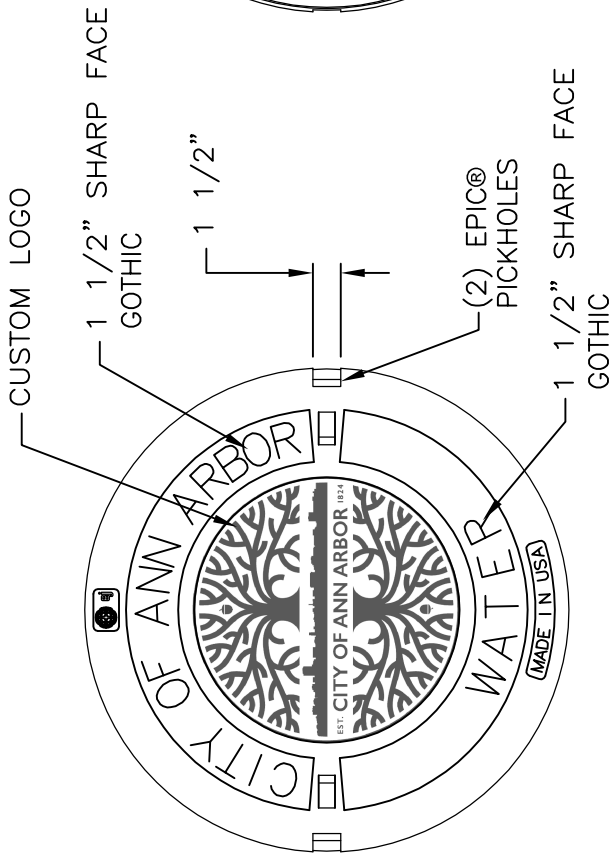
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Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.
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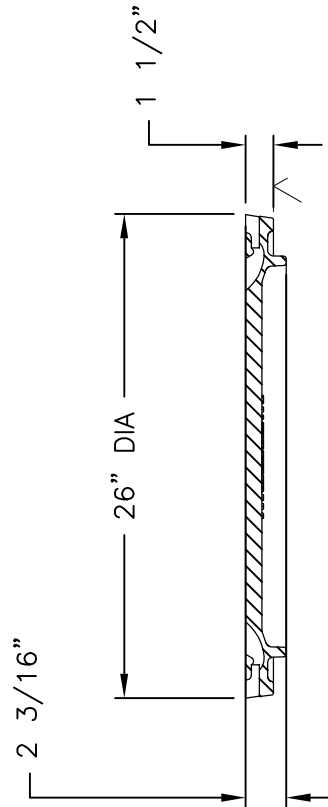
Contact

800 626 4653
ejco.com

1040A Cover



BOTTOM VIEW



SECTION



EPICOR® DETAIL

Product Number

001040324

Design Features

- Materials Gray Iron (CL35B)
- Design Load Heavy Duty
- Open Area n/a
- Coating Dipped
- Designates Machined Surface

Certification

- ASTM A48
- Country of Origin: USA

Drawing Revision

5/4/2018 Designer: DAE
8/29/2018 Revised By: DAE

Disclaimer

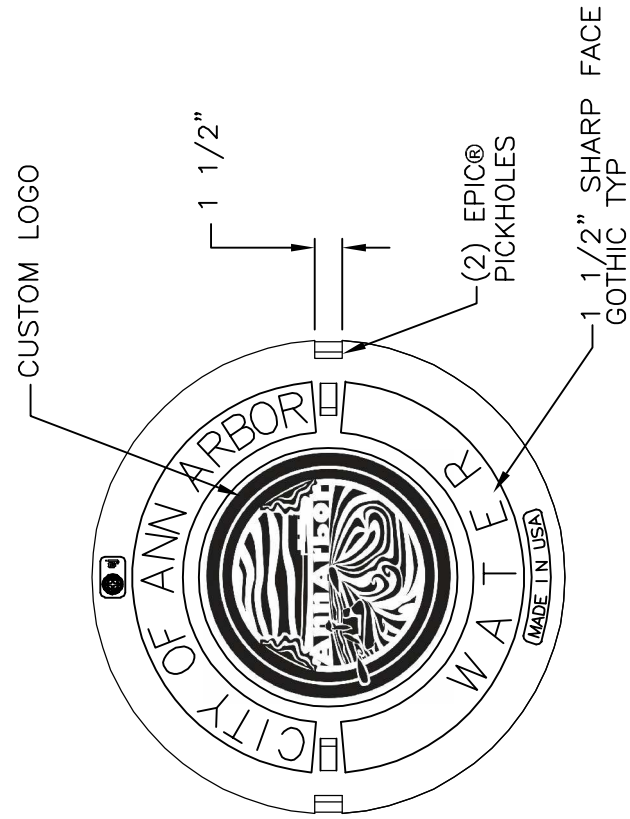
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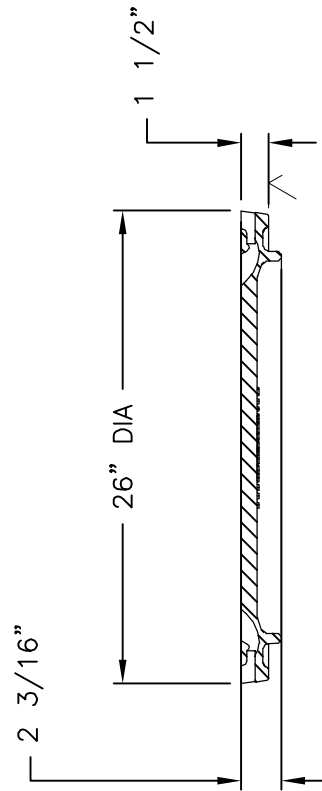
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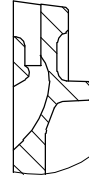
1040A Cover



BOTTOM VIEW



SECTION



EPIC® DETAIL

Product Number
001040570

Design Features

- Materials
Gray Iron (CL35B)
- Design Load
Heavy Duty
- Open Area
n/a
- Coating
Undipped
- Designates Machined Surface

Certification

- ASTM A48
- Country of Origin: USA

Drawing Revision

3/15/2018 Designer: MAH
1/8/2021 Revised By: MAH

Disclaimer

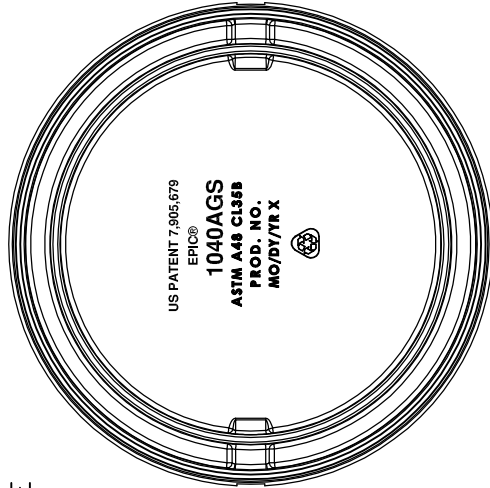
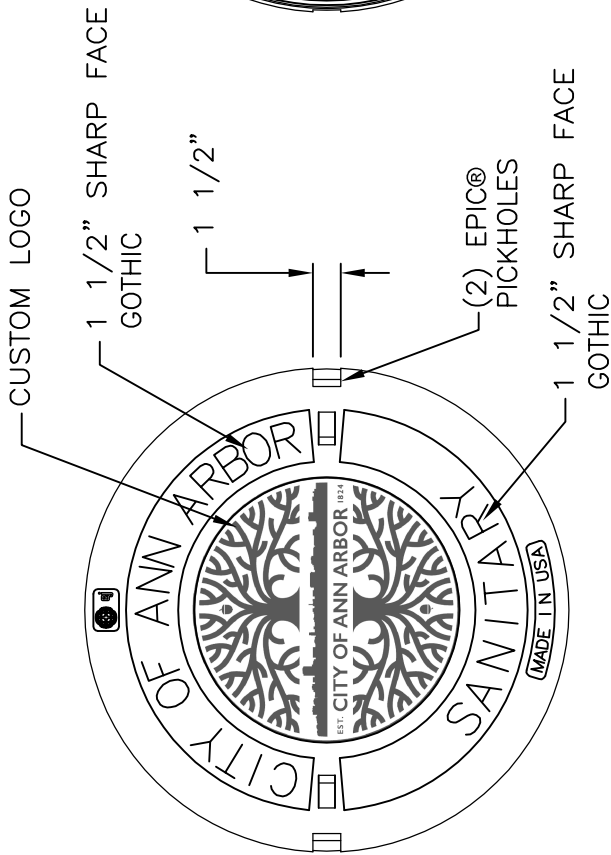
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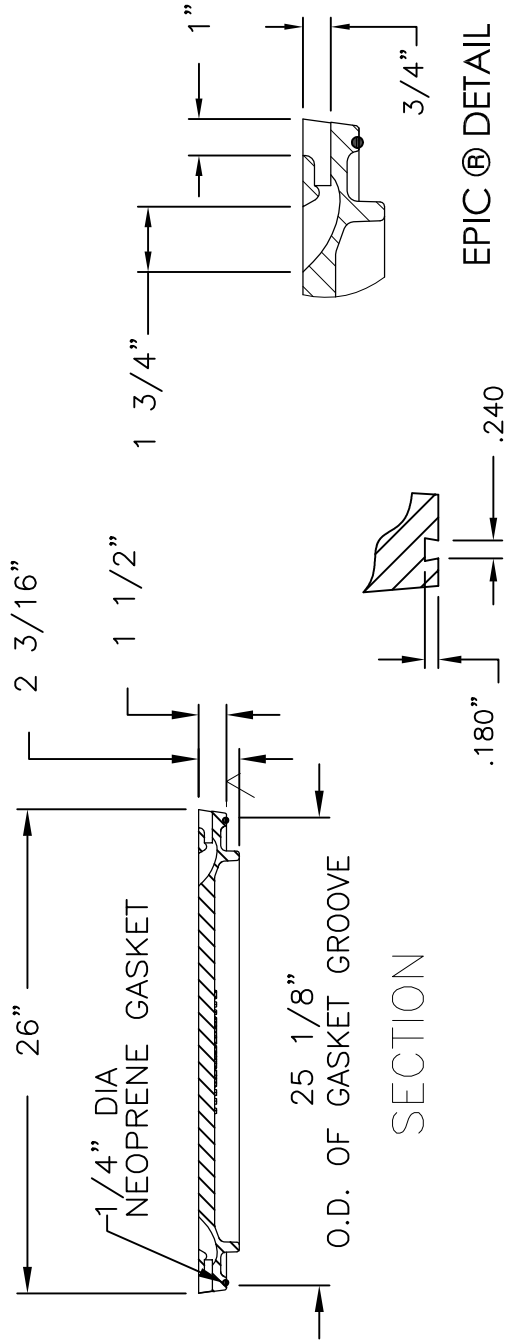
Contact

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1040AGS Cover



BOTTOM VIEW



SECTION

GROOVE DETAIL

EPIC® DETAIL

Product Number

001040326

Design Features

- Materials Gray Iron (CL35B)
- Design Load Heavy Duty
- Open Area n/a
- Coating Dipped
- Designates Machined Surface

Certification

- ASTM A48
- Country of Origin: USA

Drawing Revision

5/11/2018 Designer: DAE
8/29/2018 Revised By: DAE

Disclaimer

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CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
ADJUSTING STRUCTURE COVERS

AA:DAD

1 of 3

03/24/21

a. Description. This work includes the final adjustment of all drainage and utility structure covers whether shown or not on the plans in accordance with section 403 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, applicable standard or special details, and as specified herein. Utility structures comprise gate valve wells/manholes, sanitary sewer manholes, gate valve boxes, monument boxes, and electrical/traffic signal handholes.

The Contractor will also coordinate with the private utility(s) any required adjustment(s) of structure covers to ensure performance of proper adjustments prior to placing any final paving materials.

b. Materials. Provide materials in accordance with those specified in subsection 403.02 of the MDOT Standard Specifications for Construction.

In hot mix asphalt (HMA) pavement areas, make adjustments using MDOT P-NC concrete (658 lbs/cyd) as specified in subsection 601.02 of the MDOT 2012 Standard Specifications for Construction. In areas of concrete (PCC) pavement, adjust structures at the time of paving and encase them with the grade of concrete used for the roadway.

c. Construction. Complete this work, as applicable, according to subsection 403.03 of the MDOT 2012 Standard Specifications for Construction, as described below, and as directed by the Engineer.

Adjust any/all structure covers, monument boxes, water valve boxes and other public utility underground access or control point covers to conform to the finished surface section and elevation. Perform the structure cover adjustments in lawn areas and those using a one-step process. Perform structure cover adjustments in HMA pavement areas in two steps: step one is the lowering of the structure cover to below the subgrade elevation and plating of the structure; step two is the final adjustment to finish grade made prior to placing the HMA top course. In areas of concrete pavement, make the final adjustment of structure covers to finish grade at the time of concrete pavement forming. The Engineer shall approve of all structure cover adjustments prior to the placement of any HMA and/or concrete pavement.

Any/all final structures cover adjustments are to be to the elevation that results in their top surface being flush with the finished grade. Accomplish and check this work using a 10-foot straight edge placed parallel, and then perpendicular to, the pavement centerline. Failure to meet these conditions will result in the readjustment of the structure and finish patching of the area, as directed by the Engineer, at the Contractor's expense.

All private utility (Electric, Gas, Telecommunications, etc.) structure and valve covers will be adjusted during this project by the Utility. It is the responsibility of the Contractor to coordinate with these private utilities by giving adequate notice and arranging for any adjustment of structures or valves by these utilities. The Contractor is solely responsible for ensuring completion of this work in a timely manner.

The Contractor shall replace existing structures covers, top portions of valve boxes and monument boxes as shown on the plans and as directed by the Engineer.

The Contractor shall remove and stockpile on site at a location mutually agreed upon by the Contractor and Engineer any/all existing city owned structure covers designated for salvage, and within two days of their removal deliverer them to the W.R. Wheeler Service Center (4251 Stone School Rd, Ann Arbor, MI). Any structure covers not designated for salvage shall become the property of the Contractor and disposed of, as required, by the Contractor.

Any/all adjustments in areas of HMA pavement include backfilling with Grade P-NC concrete from the depth of excavation necessary for adjustment to an elevation flush with the HMA leveling course.

Adjust structure covers to be flush with or ¼ inch below final pavement surface.

d. Measurement and Payment. Measure and pay for the completed work, as described, at the respective contract unit prices using the following respective pay items:

<u>Pay Item</u>	<u>Pay Unit</u>
Dr Structure Cover, Adj, Case 1, Modified	Each
Dr Structure Cover, Adj, Case 2, Modified	Each
Monument Box, Adj.....	Each

Measure **Dr Structure Cover, Adj, Case 1, Modified** and **Dr Structure Cover, Adj, Case 2, Modified** and **Monument Box, Adj** individually in place by the unit each and pay for them at their respective contract unit prices, which prices include costs for all labor, equipment and materials necessary to complete the work.

Backfilling with Grade P-NC concrete is not a separate contract item, and payment for **Dr Structure Cover, Adj, Case 1, Modified** includes furnishing and placing this material.

Payment for transporting salvaged frames and covers from the project site to the W.R. Wheeler Center is included in the unit prices bid for the above structure cover adjustment items of work.

Where the required adjustment of a structure is more than 6 inches above/below the proposed finished grade of the structure, measure and pay for it as **Dr Structure Cover, Adj, Add Depth**. This also includes the repair of manholes and structures requiring less than the substantial rebuilding of the structure, as determined by the Engineer.

There is a possibility that the Contractor may find hidden utility structures during the work. It is the Contractor's responsibility to inform the respective utility owner(s) of the findings. In such instances, the City may direct the Contractor to adjust the structure(s) to grade. The Engineer will pay this work as either **Dr Structure Cover, Adj, Case 1, Modified** or **Dr Structure Cover, Adj, Case 2, Modified** depending on the location of the hidden structure(s).

The Engineer will pay for adjusting covers on new drainage or utility structures, monuments boxes, valve boxes, etc. in their respective items of work and not pay for them under these items of work. Perform this work in accordance with this detailed specification.

The Engineer will pay for the adjustment of gate valve boxes and electrical/traffic signal handholes as **Dr Structure Cover, Adj, Case ___, Modified** unless there are separate pay items in the contract to address this work.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
YARD DRAIN, OUTLET PIPE AND ENDINGS

AA:DAD

1 of 2

03/25/21

a. Description. This work includes removing existing yard drain piping and outlet endings and furnishing and installing new yard drain outlet piping and endings as directed by the Engineer.

b. Materials. Provide 4 inch underdrain outlet pipe in accordance with ASTM D1785, Schedule 80 polyvinyl chloride (PVC). Ensure all fittings, couplings, joints, cement and other associated appurtenances are compatible with Schedule 80 PVC pipe. Use Fernco™ Flexible coupling with stainless steel shear rings; Indiana Seal Flexible Couplings; or an Engineer approved equal when connecting pipes of dissimilar materials. Submit product data sheet for pop-up ending apparatus proposed for use to the Engineer for approval prior to ordering materials. Use Granular Material Class II for backfill meeting the requirements of section 902 of the Michigan Department of Transportation 2012 Standard Specifications for Construction.

c. Construction. Remove and replace existing yard drains and outlet endings encountered during construction as required and in accordance with the manufacturer's guidelines and as directed by the Engineer.

For existing installations through the concrete curb head, excavate and remove existing yard drain pipe to a sufficient distance behind the curb and place new 4 inch PVC piping and connect it to the existing drain pipe. Use PVC fittings when connecting existing and new PVC pipes and Fernco™ Flexible couplings when connecting pipes of different materials or diameters. Run pipe through new curb head to allow for drainage into the flow line of the gutter and sufficient concrete cover above the pipe. Place and compact 3 inches of bedding and backfill beneath and around pipe using Granular Material Class II. Restore disturbed areas resulting from this work in accordance with the Detailed Specification for Slope Restoration.

For existing installations through the concrete curb head where similar replacement is not feasible or desired, excavate and remove existing yard drain pipe to a sufficient distance behind the curb and place an approved yard drain pop-up apparatus. Use PVC fittings when connecting existing and new PVC pipes and Fernco couplings when connecting pipes of different materials or diameters. Install pop-up apparatus after curb installation to ensure positive drainage over top of curb. Place and compact 3 inches of bedding and backfill beneath and around apparatus using Granular Material Class II. Restore disturbed areas resulting from this work in accordance with the Detailed Specification for Slope Restoration.

Properly dispose of any/all excess excavated material off-site.

d. Measurement and Payment. Measure and pay for the completed work, as described, at the respective contract unit prices using the following respective pay items:

<u>Pay Item</u>	<u>Pay Unit</u>
Yard Drain, Outlet Ending, Plastic Pipe	Foot
Yard Drain, Outlet Ending, Pop-up Apparatus	Each

Measure **Yard Drain, Outlet Ending, Plastic Pipe**; and **Yard Drain, Outlet Ending, Pop-up Apparatus** in place by their respective units of foot and each, and pay for them at their respective contract unit prices, which prices include the costs for all labor, equipment and materials to complete the work.

Work required to restore disturbed areas will be measured and paid for separately at the contract unit price for **Slope Restoration**.

CITY OF ANN ARBOR
 DETAILED SPECIFICATION
 FOR
HOT MIX ASPHALT (HMA) APPLICATION ESTIMATE

AA:DAD

1 of 2

03/24/21

a. Description. Perform this work in accordance with the requirements of section 501 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, and as herein specified.

b. Materials.

PAY ITEM	HMA MIX	APPLICATION RATE	ESTIMATED THICKNESS	BINDER PERFORMANCE GRADE	AWI (min)
Packard Street Shared Use Path					
Shared use Path, HMA	LVSP	385 lb/syd	3.5 inches	PG 58-28	220
Shared use Path, HMA, Wedging	5E1	Varies between 55 and 250 lb/syd	Varies between 0.5 and 2.25 inches	PG 58-28	N/A
South Huron Parkway					
(1) HMA, LVSP	LVSP (top)	220 lb/syd	2.0 inches	PG 58-28	220
	LVSP (leveling)	220 lb/syd	2.0 inches	PG 58-28	N/A
South Industrial Highway					
HMA, 4E3	4E3 (top)	220 lb/syd	2.0 inches	PG 64-28	220
	4E3 (leveling)	220 lb/syd	2.0 inches	PG 64-28	N/A
Minor (Local) Streets					
(1) HMA, LVSP	LVSP (top)	220 lb/syd	2.0 inches	PG 58-28	220
	LVSP (leveling)	220 lb/syd	2.0 inches	PG 58-28	N/A
(2) HMA, LVSP	LVSP (top)	165 lb/syd or 220 lb/syd	1.5 inches or 2.0 inches	PG 58-28	220
(3) Hand Patching	LVSP	Varies maximum = 330 lb/syd	Varies - maximum = 3.0 inches	PG 58-28	N/A
(4) HMA Approach	LVSP	Place in two courses/lifts at 220 lb/syd	Varies maximum = 2.0 inches/lift	PG 58-28	220
HMA, Wedging, 36A	36A	Varies between 110 and 330 lb/syd	Varies between 1.0 and 3.0 inches	PG 58-28	220

- (1) Applies to streets where asphalt pavement removal and replacement is full depth.
 (2) Applies to streets where asphalt pavement removal and replacement is only partial depth. See construction scope and sequencing notes on subset cover sheets for removal and replacement depth/thickness on these streets.

- (3) The Contractor may use alternative top course E mixes for Hand Patching with approval by the Engineer. LVSP is approved for use only on minor (local) streets.
- (4) HMA Approach mix shall match that used for mainline paving (top course) on the street for which the adjacent side street approaches are being paved unless otherwise approved or directed by the Engineer.

Use the respective mixes indicated above on Major and Local streets unless the plans note otherwise or directed otherwise by the Engineer. Submit mix designs and obtain approval from the Engineer for all HMA mixtures proposed for use. For approach and hand patching work on Major Streets, use the same HMA mixture respectively as specified for the top course unless otherwise approved by the Engineer.

Use 3.5% as target air void content of for leveling courses, top courses and shoulders paved in the same operation as the leveling and top courses. Use 3% as a target air void content of for base courses and shoulders not paved in the same operation as the leveling and top courses. Use 3% as a target air void content of for shared use paths.

The Performance Grade asphalt binder range for the HMA mixture shall be as noted above. Apply Bond Coat material accordance with the requirements of the Detailed Specification for HMA Paving.

Apply bond coat at a uniform rate between 0.05 and 0.10 gallons per square yard as directed and approved by the Engineer. Bond Coat is not a separate pay item; the HMA items of work for which it applies include payment for furnishing and placing bond coat.

c. Measurement and Payment. Measure and pay for this work as provided elsewhere in the contract documents.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
HMA TRAFFIC CALMING MEASURES

AA:DAD

1 of 2

03/25/21

a. Description. This work consists of constructing hot mix asphalt (HMA) traffic calming devices at locations directed by the Engineer, in accordance with the special details shown on the plans, and as described herein.

b. Materials. Provide materials in accordance with section 501 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction. Use MDOT mixture HMA, LVSP for this work, or an acceptable substitute approved by the Engineer.

c. Construction. Perform work in accordance with section 501 of the MDOT 2012 Standard Specifications for Construction, and as directed by the Engineer.

Furnish and operate all temporary traffic control devices and provide traffic regulator control necessary to complete traffic calming device construction.

Submit a temporary traffic control plan to the Engineer for approval a minimum of 48 hours in advance of this work.

Cold mill existing pavement to depth and dimensions as shown on the plans.

Clean the existing surface with compressed air and/or vacuum type street cleaning equipment to remove dirt and debris prior to placement of HMA material. Provide compressed air from a source capable of supplying air at a minimum pressure of 90 psi and at a rate 150 cubic feet per minute of at the nozzle.

Apply MDOT SS-1h bond coat on all asphalt and concrete surfaces within the area where installing the traffic calming measure. Apply at a rate between 0.05 and 0.10 gallons/square yard using a power distributor hand sprayer. Do not place bond coat material on pavement and concrete curb and gutter surfaces adjacent to the traffic calming measures being placed that are not approved for paving.

Placing traffic calming devices using an asphalt paving machine or, where approved by the Engineer, place HMA material directly by hand. Do not place HMA materials on pavement and concrete curb and gutter surfaces adjacent to the traffic calming measures being placed that are not approved for paving.

Use City of Ann Arbor provided template when constructing traffic calming devices unless otherwise directed by the Engineer.

Construct traffic calming devices using one (1) lifts/layers of HMA material. Compact HMA mixture to between 92 and 96 percent (or as determined acceptable by the Engineer) of the theoretical maximum density, as listed on the approved Job Mix Formula.

Provide a 10-foot long straight-edge and a 10-foot long level during all paving operations.

Place temporary pavement markings to delineate and differentiate the traffic calming devices for traffic as directed by the Engineer.

Place permanent pavement markings as required and in accordance with the special details on the plans and as directed by the Engineer.

d. Measurement and Payment. Measure and pay for the completed work, as described, at the contract unit price using the following pay items:

<u>Pay Item</u>	<u>Pay Unit</u>
Raised Crosswalk, HMA	Square Yard
Raised Intersection, HMA	Square Yard
Speed Hump, HMA	Square Yard
Speed Table, HMA.....	Square Yard

Measure **Raised Crosswalk, HMA; Raised Intersection, HMA; Speed Hump, HMA; and Speed Table, HMA** areas in place by the unit square yard and pay for them at their respective contract unit prices, which prices include the costs for all labor, equipment and materials necessary to complete the work including providing, placing and compacting the HMA mixture.

Measure and pay for separately temporary traffic control devices and traffic regulator control.

Measure and pay for separately temporary and permanent pavement markings.

Measure and pay for separately **Cold Milling**.

Measure and pay for separately any necessary restoration work as **Slope Restoration**.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
CONCRETE TRAFFIC CALMING MEASURES

AA:DAD

1 of 2

03/25/21

a. Description. This work consists of constructing concrete traffic calming devices at locations directed by the Engineer, in accordance with the special details shown on the plans, and as described herein.

b. Materials. Provide materials in accordance with section 602.02 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction except as herein modified.

Use concrete mixture Grade P1 or an acceptable substitute approved by the Engineer.

c. Construction. Perform work in accordance with section 602.03 of the MDOT 2012 Standard Specifications for Construction, and as directed by the Engineer.

Submit a temporary traffic control plan to the Engineer for approval a minimum of 48 hours in advance of this work.

Furnish and operate all temporary traffic control devices and provide traffic regulator control necessary to complete traffic calming device construction.

Maintain access to/from properties at all times during construction.

Perform full-depth saw cutting at removal limits, including those necessary to provide for the partial removal of existing pavement to complete part width construction as directed by the Engineer. Perform any/all saw cutting under wet conditions to prevent excessive airborne dust. Clean up any/all resulting slurry and debris to the satisfaction of the Engineer immediately after performing saw cutting work. Take sufficient care so as not to damage and/or disturb any adjacent pavement, pavement base, and/or any other site feature, all as directed by the Engineer.

Remove existing pavement and base material as required to a depth 6 inches below the existing road surface.

At all times protect excavated/removal areas with barricades and/or fencing.

Construct the concrete traffic calming devices using clean, straight uniformed forms to the grade, shape and thickness of the devices as called out in the plans or as directed by the Engineer. Do not place concrete materials on pavement and concrete curb and gutter surfaces adjacent to the traffic calming measures being placed that are not approved for removal and replacement.

Use City of Ann Arbor provided template when constructing traffic calming devices unless otherwise directed by the Engineer.

Provide a 10-foot long straight-edge and a 10-foot long level during all operations.

At various times throughout the work, the Engineer may direct the Contractor to use smaller and/or lighter equipment, and to defer certain work tasks, in order to protect the grade and/or adjacent areas. The Contractor shall not be entitled to any additional compensation for the use of smaller equipment, lighter equipment, or work task deferral.

Place temporary pavement markings to delineate and differentiate the traffic calming devices for traffic as directed by the Engineer.

Place permanent pavement markings as required and in accordance with the special details on the plans and as directed by the Engineer.

d. Measurement and Payment. Measure and pay for the completed work, as described, at the contract unit price using the following pay items:

<u>Pay Item</u>	<u>Pay Unit</u>
Raised Crosswalk, Conc	Square Yard
Raised Intersection, Conc	Square Yard
Speed Hump, Conc	Square Yard
Speed Table, Conc	Square Yard

Measure **Raised Crosswalk, Conc; Raised Intersection, Conc; Speed Hump, Conc; and Speed Table, Conc** areas in place by the unit square yard and pay for them at their respective contract unit prices, which prices include the costs for all labor, equipment and materials necessary to complete the work including providing, placing and finishing the Concrete mixture.

Saw cutting required to concrete construct traffic calming devices is not a separate contract pay item. The Contractor shall include any/all costs for it in the unit price for traffic calming device being constructed.

Measure and pay for separately temporary traffic control devices and traffic regulator control.

Measure and pay for separately temporary and permanent pavement markings.

Measure and pay for separately removal of the existing pavement as **Pavt, Rem** or **HMA Surface, Rem** depending on thickness.

Measure and pay for separately removal of any base course material as **Trenching, Modified**.

Measure and pay for separately any necessary restoration work as **Slope Restoration**.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
CONCRETE CURB AND GUTTER, AND DRIVEWAY OPENINGS

AA:DAD:CAE

1 of 2

03/25/21

a. Description. This work consists of constructing concrete curb and gutter, furnishing and placing Slipform Concrete Curb and gutter and concrete driveway openings as directed by the Engineer or at the locations shown on the plans in accordance with section 802 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, applicable standard or special details, as directed by the Engineer, and as specified herein.

b. Materials. Provide materials meeting the requirements specified in subsection 802.02 of the MDOT 2012 Standard Specifications for Construction and as specified herein.

Use concrete mixture Grade P-NC (658 pounds/cubic yard cement content) for Driveway Opening, Conc, Det M, Modified as specified in subsection 601.02 of the MDOT 2012 Standard Specifications.

Use either Grade P1 or S2 concrete for all other concrete curb and gutter specified herein. The Contractor may elect to add GGBFS to P1 mixtures in accordance with the requirements of the contract documents. The Engineer will not pay any additional amount for concrete mixtures containing GGBFS.

Provide concrete mixtures containing 6AA coarse aggregates that are either natural or limestone and meet the requirements of section 902 the MDOT 2012 Standard Specifications for Construction.

The Contractor is solely responsibility for providing specific concrete mix designs that meet the requirements of this detailed specification.

c. Construction. Use construction methods in accordance with subsection 802.03 of the MDOT 2012 Standard Specifications for Construction.

If using slip forming methods, match the dimensions of the form to the dimensions of the curb and gutter shown on the plans. Place concrete with an approved slip form machine that produces a finished product according to the plans. Place curb and gutter on a firm, uniform bearing surface, that conforms to the section profile specified in the plans and matches the appropriate grade. Place expansion joints at ends of curve radii, and at intervals no greater than 300' spacing. Place contraction joints at 10 foot intervals. Construct joints perpendicular to the subgrade and match other joints in roadways, sidewalks or other structures when applicable.

Adequately protect concrete curb and gutter after placement and allow the concrete to cure for at least 72 hours. During cold weather conditions, provide protection using concrete blankets or a combination of plastic sheeting and straw. After any placement, regardless of weather conditions, adequately protect concrete curb and gutter using traffic control devices as necessary. The Contractor will remove and replace any/all damaged curb and gutter at its expense.

Place expansion joints of the thickness shown on the details or as directed by the Engineer.

d. Measurement and Payment. Measure and pay for the completed work, as described, at the respective contract unit prices using the following respective pay items:

<u>Pay Item</u>	<u>Pay Unit</u>
Curb and Gutter, Conc, Barrier.....	Foot
Curb and Gutter, Conc, Mountable	Foot
Curb and Gutter, Conc, Barrier or Mountable, Slip Form.....	Foot
Driveway Opening, Conc, Det M, Modified	Foot

Measure **Curb and Gutter, Conc, Barrier; Curb and Gutter, Conc, Mountable; Curb and Gutter, Conc, Barrier or Mountable, Slip Form; and Driveway Opening, Conc, Det M, Modified** lengths in place by the unit foot and pay for them at their respective contract unit prices, which prices include the costs for all labor, equipment and materials to complete the work.

Measurement in place by the unit foot and payment for concrete curb and gutter (without the curb face) at curb openings for sidewalk ramps will be at the contact unit price for **Curb Ramp Opening, Conc.**

Where the Engineer directs the use of high early strength concrete for pay items not specifically designated to use Grade P-NC concrete, it will pay separately for the additional cement. The Engineer will not pay for cement separately for pay items that designated to use Grade P-NC concrete.

CITY OF ANN ARBOR
 DETAILED SPECIFICATION
 FOR
PERMANENT PAVEMENT MARKINGS

AA:DAD:CAE

1 of 1

03/25/21

a. Description. This work consists of providing and placing permanent pavement markings in accordance with the Michigan Manual on Uniform Traffic Control Devices (MMUTCD). Provide pavement markings that conform to the plans, section 811 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, MDOT Pavement Marking Standard Plans, City of Ann Arbor Special Details, as directed by the Engineer, and as specified herein.

b. Materials. Provide materials in accordance with sections 811 and 920 of the MDOT 2012 Standard Specifications for Construction. Provide the Material Safety Data Sheets to the Engineer for required materials and supplies. Dispose of unused material and containers in accordance with the Federal Resource Conservation Recovery Act (RCRA) of 1976 as amended, and 1994 PA 451, Part 111 Hazardous Waste Management. Provide samples of permanent pavement marking materials upon request.

c. Construction Methods. The preparation and placement of permanent pavement markings shall conform to section 811 of the MDOT 2012 Standard Specifications, the plans, and as specified herein.

d. Measurement and Payment. Measure and pay for the completed work, as described, at the respective contract unit prices using the following respective pay items:

<u>Pay Item</u>	<u>Pay Unit</u>
Pavt Mrkg, Polyurea, Speed Hump Chevron, White	Each
Pavt Mrkg, Thermopl, School	Each
Pavt Mrkg, Thermopl, Speed Hump Chevron, White	Each
Pavt Mrkg, Thermopl, Yield Triangle Sym.....	Each

Measure **Pavt Mrkg, Polyurea, Speed Hump Chevron, White, Pavt Mrkg; Thermopl, School; Pavt Mrkg, Thermopl, Speed Hump Chevron, White;** and **Pavt Mrkg, Thermopl, Yield Triangle Sym** individually in place by the unit each and pay for them at their respective contract unit prices, which prices include the costs for all labor, equipment and materials to complete the work.

CITY OF ANN ARBOR

NOTICE TO BIDDERS

PROJECT COORDINATION

AA:DAD

1 of 1

03/25/21

The City of Ann Arbor hereby notifies the Contractor of several independent construction projects within the local vicinity of, or directly adjacent to, the Construction Influence Area (CIA) of the project locations listed below. These projects may affect various work activities, maintenance of traffic (MOT), and/or trucking operations involved with these locations. The City anticipates construction of these independent projects during the same timeframe as this project.

- South Industrial Highway CIA & MOT: Coordinate with City of Ann Arbor South Industrial Highway Concrete Pavement Repair Project.
- Towner Boulevard CIA & MOT: Coordinate with Ann Arbor Public Schools Allen Elementary School site work.

The above is not necessarily a complete listing of all area projects that could potentially impact this one. Prior to commencing with any construction, the Contractor shall verify with the City the presence of any other concurrent public or permitted projects within the vicinity.

The Contractor shall coordinate its work on this project with that by Contractor(s) on all other projects within the local vicinity, as directed by the Engineer. The Engineer will make no additional compensation or adjustments to contract unit prices for costs incurred by the Contractor due to coordinating with or delays caused by other projects.

"General Decision Number: MI20210001 03/12/2021

Superseded General Decision Number: MI20200001

State: Michigan

Construction Types: Highway (Highway, Airport & Bridge xxxxx and Sewer/Incid. to Hwy.)

Counties: Michigan Statewide.

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/01/2021
1	03/12/2021

CARP0004-004 06/01/2019

REMAINDER OF STATE

	Rates	Fringes
CARPENTER (Piledriver).....	\$ 27.62	20.59

CARP0004-005 06/01/2018

LIVINGSTON (Townships of Brighton, Deerfield, Genoa, Hartland, Oceola & Tyrone), MACOMB, MONROE, OAKLAND, SANILAC, ST. CLAIR AND WAYNE COUNTIES

	Rates	Fringes
CARPENTER (Piledriver).....	\$ 30.50	27.28

ELEC0017-005 06/01/2020

STATEWIDE

	Rates	Fringes
Line Construction		
Groundman/Driver.....	\$ 28.84	16.03
Journeyman Signal Tech, Communications Tech, Tower		
Tech & Fiber Optic Splicers..	\$ 41.44	20.00
Journeyman Specialist.....	\$ 47.66	21.96
Operator A.....	\$ 35.02	17.99
Operator B.....	\$ 32.69	17.25

Classifications

Journeyman Specialist: Refers to a crew of only one person working alone.

Operator A: Shall be proficient in operating all power equipment including: Backhoe, Excavator, Directional Bore and Boom/Digger truck.

Operator B: Shall be proficient in operating any 2 of the above mentioned pieces of equipment listed under Operator A.

ENGI0324-003 06/01/2020

ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWEE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:

Rates Fringes

OPERATOR: Power Equipment
(Steel Erection)

GROUP 1.....	\$ 47.02	24.85
GROUP 2.....	\$ 48.02	24.85
GROUP 3.....	\$ 45.52	24.85
GROUP 4.....	\$ 46.52	24.85
GROUP 5.....	\$ 44.02	24.85
GROUP 6.....	\$ 45.02	24.85
GROUP 7.....	\$ 43.75	24.85
GROUP 8.....	\$ 44.75	24.85
GROUP 9.....	\$ 43.30	24.85
GROUP 10.....	\$ 44.30	24.85
GROUP 11.....	\$ 42.57	24.85
GROUP 12.....	\$ 43.57	24.85
GROUP 13.....	\$ 42.21	24.85
GROUP 14.....	\$ 43.21	24.85
GROUP 15.....	\$ 41.57	24.85
GROUP 16.....	\$ 38.62	24.85
GROUP 17.....	\$ 24.14	12.00
GROUP 18.....	\$ 27.63	12.00

FOOTNOTE:

Paid Holidays: New Year's Day, Memorial Day, Fourth of July,
Labor Day, Thanksgiving Day and Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Engineer when operating combination of boom and jib
400' or longer

GROUP 2: Engineer when operating combination of boom and jib
400' or longer on a crane that requires an oiler

GROUP 3: Engineer when operating combination of boom and jib
300' or longer

GROUP 4: Engineer when operating combination of boom and jib
300' or longer on a crane that requires an oiler

GROUP 5: Engineer when operating combination of boom and jib
220' or longer

GROUP 6: Engineer when operating combination of boom and jib
220' or longer on a crane that requires an oiler

GROUP 7: Engineer when operating combination of boom and jib
140' or longer

GROUP 8: Engineer when operating combination of boom and jib

140' or longer on a crane that requires an oiler

GROUP 9: Tower crane & derrick operator (where operator's work station is 50 ft. or more above first sub-level)

GROUP 10: Tower crane & derrick operator (where operator's work station is 50 ft. or more above first sub-level) on a crane that requires an oiler

GROUP 11: Engineer when operating combination of boom and jib 120' or longer

GROUP 12: Engineer when operating combination of boom and jib 120' or longer on a crane that requires an oiler

GROUP 13: Crane operator; job mechanic and 3 drum hoist and excavator

GROUP 14: Crane operator on a crane that requires an oiler

GROUP 15: Hoisting operator; 2 drum hoist and rubber tired backhoe

GROUP 16: Forklift and 1 drum hoist

GROUP 17: Compressor or welder operator

GROUP 18: Oiler

ENGI0324-004 06/01/2020

AREA 1: ALLEGAN, BARRY, BERRIEN, BRANCH, CALHOUN, CASS, EATON, HILLSDALE, IONIA, KALAMAZOO, KENT, LAKE, MANISTEE, MASON, MECOSTA, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH, VAN BUREN

AREA 2: ANTRIM, BENZIE, CHARLEVOIX, EMMET, GRAND TRAVERSE, KALKASKA, LEELANAU, MISSAUKEE AND WEXFORD COUNTIES:

	Rates	Fringes
OPERATOR: Power Equipment (Steel Erection)		
AREA 1		
GROUP 1.....	\$ 47.02	24.85
GROUP 2.....	\$ 43.75	24.85
GROUP 3.....	\$ 42.21	24.85
GROUP 4.....	\$ 38.62	24.85

GROUP 5.....	\$ 24.14	12.00
GROUP 6.....	\$ 27.63	12.00
AREA 2		
GROUP 1.....	\$ 47.02	24.85
GROUP 2.....	\$ 43.75	24.85
GROUP 3.....	\$ 42.21	24.85
GROUP 4.....	\$ 38.62	24.85
GROUP 5.....	\$ 24.14	12.00
GROUP 6.....	\$ 27.63	12.00

FOOTNOTES:

Crane operator with main boom and jib 300' or longer: \$1.50 additional to the group 1 rate. Crane operator with main boom and jib 400' or longer: \$3.00 additional to the group 1 rate.

PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS:

GROUP 1: Crane Operator with main boom & jib 400', 300', or 220' or longer.

GROUP 2: Crane Operator with main boom & jib 140' or longer, Tower Crane; Gantry Crane; Whirley Derrick.

GROUP 3: Regular Equipment Operator, Crane, Dozer, Loader, Hoist, Straddle Wagon, Mechanic, Grader and Hydro Excavator.

GROUP 4: Air Tugger (single drum), Material Hoist Pump 6" or over, Elevators, Brokk Concrete Breaker.

GROUP 5: Air Compressor, Welder, Generators, Conveyors

GROUP 6: Oiler and fire tender

 ENGI0324-005 09/01/2020

AREA 1: GENESEE, LAPEER, LIVINGSTON, MACOMB, MONROE, OAKLAND, ST. CLAIR, WASHTENAW AND WAYNE COUNTIES

AREA 2: ALCONA, ALLEGAN, ALGER, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KWEENAW, LAKE, LEELANAU, LENAWE, LUCE, MACKINAC, MANISTEE,

MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

	Rates	Fringes
OPERATOR: Power Equipment (Underground construction (including sewer))		
AREA 1:		
GROUP 1.....	\$ 35.88	24.85
GROUP 2.....	\$ 31.15	24.85
GROUP 3.....	\$ 30.42	24.85
GROUP 4.....	\$ 29.85	24.85
GROUP 5.....	\$ 21.40	12.05
AREA 2:		
GROUP 1.....	\$ 34.17	24.85
GROUP 2.....	\$ 29.28	24.85
GROUP 3.....	\$ 28.78	24.85
GROUP 4.....	\$ 28.50	24.85
GROUP 5.....	\$ 21.40	12.05

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Backfiller tamper; Backhoe; Batch plant operator (concrete); Clamshell; Concrete paver (2 drums or larger); Conveyor loader (Euclid type); Crane (crawler, truck type or pile driving); Dozer; Dragline; Elevating grader; Endloader; Gradall (and similar type machine); Grader; Mechanic; Power shovel; Roller (asphalt); Scraper (self-propelled or tractor drawn); Side boom tractor (type D-4 or equivalent and larger); Slip form paver; Slope paver; Trencher (over 8 ft. digging capacity); Well drilling rig; Concrete pump with boom operator; Hydro Excavator

GROUP 2: Boom truck (power swing type boom); Crusher; Hoist; Pump (1 or more - 6-in. discharge or larger - gas or diesel- powered or powered by generator of 300 amperes or more - inclusive of generator); Side boom tractor (smaller than type D-4 or equivalent); Tractor (pneu-tired, other than backhoe or front end loader); Trencher (8-ft. digging capacity and smaller); Vac Truck and End dump operator;

GROUP 3: Air compressors (600 cfm or larger); Air compressors (2 or more-less than 600 cfm); Boom truck (non-swinging, non- powered type boom); Concrete breaker (self-propelled

or truck mounted - includes compressor); Concrete paver (1 drum-1/2 yd. or larger); Elevator (other than passenger); Maintenance person; Pump (2 or more-4-in. up to 6-in. discharge-gas or diesel powered - excluding submersible pumps); Pumpcrete machine (and similar equipment); Wagon drill (multiple); Welding machine or generator (2 or more-300 amp. or larger - gas or diesel powered)

GROUP 4: Boiler; Concrete saw (40 hp or over); Curing machine (self-propelled); Farm tractor (with attachment); Finishing machine (concrete); Hydraulic pipe pushing machine; Mulching equipment; Pumps (2 or more up to 4-in. discharge, if used 3 hours or more a day, gas or diesel powered - excluding submersible pumps); Roller (other than asphalt); Stump remover; Trencher (service); Vibrating compaction equipment, self-propelled (6 ft. wide or over); Sweeper (Wayne type); Water wagon and Extend-a boom forklift

Group 5: Fire Person, Oiler

 * ENGI0324-006 06/01/2020

GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW, WAYNE, ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

	Rates	Fringes
Power equipment operators: (AIRPORT, BRIDGE & HIGHWAY CONSTRUCTION)		
GROUP 1.....	\$ 34.91	24.85
GROUP 2.....	\$ 28.18	24.85
GROUP 3.....	\$ 27.62	24.85
GROUP 4.....	\$ 27.45	24.85

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Asphalt plant operator; Crane operator (does not include work on bridge construction projects when the crane operator is erecting structural components); Dragline operator; Shovel operator; Locomotive operator; Paver operator (5 bags or more); Elevating grader operator; Pile driving operator; Roller operator (asphalt); Blade grader operator; Trenching machine operator (ladder or wheel type); Auto-grader; Slip form paver; Self-propelled or tractor-drawn scraper; Conveyor loader operator (Euclid type); Endloader operator (1 yd. capacity and over); Bulldozer; Hoisting engineer; Tractor operator; Finishing machine operator (asphalt); Mechanic; Pump operator (6-in. discharge or over, gas, diesel powered or generator of 300 amp. or larger); Shouldering or gravel distributing machine operator (self-propelled); Backhoe (with over 3/8 yd. bucket); Side boom tractor (type D-4 or equivalent or larger); Tube finisher (slip form paving); Gradall (and similar type machine); Asphalt paver (self-propelled); Asphalt planer (self-propelled); Batch plant (concrete-central mix); Slurry machine (asphalt); Concrete pump (3 in. and over); Roto-mill; Swinging boom truck (over 12 ton capacity); Hydro demolisher (water blaster); Farm-type tractor with attached pan; Vacuum truck operator; Batch Plant (concrete dry batch); Concrete Saw Operator (40h.p. or over; Tractor Operator (farm type); Finishing Machine Operator (concrete); Grader Operator (self-propelled fine grade or form (concrete)).

GROUP 2: Screening plant operator; Washing plant operator; Crusher operator; Backhoe (with 3/8 yd. bucket or less); Side boom tractor (smaller than D-4 type or equivalent); Sweeper (Wayne type and similar equipment); Grease Truck; Air Compressor Operator (600 cu.ft. per min or more); Air Compressor Operator (two or more, less than 600 cfm);

GROUP 3: Boiler fire tender; Tractor operator (farm type with attachment); Concrete Breaker; Wagon Drill Operator;

GROUP 4: Oiler; Fire tender; Trencher (service); Flexplane operator; Cleftplane operator; Boom or winch hoist truck operator; Endloader operator (*under 1 yd. capacity); Roller Operator (other than asphalt); Curing equipment operator (self-propelled); Power bin operator; Plant drier (6 ft. wide or over); Guard post driver operator (power driven); All mulching equipment; Stump remover; Concrete pump (under 3-in.); Mesh installer (self-propelled); End dump; Skid Steer.

ENGI0324-007 05/01/2020

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON,
 IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON
 AND SCHOOLCRAFT COUNTIES:

	Rates	Fringes
OPERATOR: Power Equipment (Steel Erection)		
Compressor, welder and forklift.....	\$ 33.90	24.60
Crane operator, main boom & jib 120' or longer.....	\$ 40.37	24.60
Crane operator, main boom & jib 140' or longer.....	\$ 40.67	24.60
Crane operator, main boom & jib 220' or longer.....	\$ 41.26	24.60
Mechanic with truck and tools.....	\$ 39.50	24.60
Oiler and fireman.....	\$ 32.36	24.60
Regular operator.....	\$ 37.72	24.60

 * ENGI0324-008 10/01/2020

ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY,
 BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX,
 CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA,
 DICKINSON, EATON, EMMET, GENESEE, GLADWIN, GOGEBIC, GRAND
 TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA,
 IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT,
 KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE,
 MACKINAC, MACOMB, MANISTEE, MARQUETTE, MASON, MECOSTA,
 MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MONROE,
 MUSKOGON, NEWAYGO, OAKLAND, OCEANA, OGEMAW, ONTONAGON, OSCEOLA,
 OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST.
 CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA,
 VAN BUREN, WASHTENAW, WAYNE AND WEXFORD COUNTIES

	Rates	Fringes
OPERATOR: Power Equipment (Sewer Relining)		
GROUP 1.....	\$ 34.62	13.92
GROUP 2.....	\$ 32.83	13.92

SEWER RELINING CLASSIFICATIONS

GROUP 1: Operation of audio-visual closed circuit TV system,

including remote in-ground cutter and other equipment used in connection with the CCTV system

GROUP 2: Operation of hot water heaters and circulation systems, water jetters and vacuum and mechanical debris removal systems

ENGI0325-012 05/01/2020

	Rates	Fringes
Power equipment operators - gas distribution and duct installation work:		
GROUP 1.....	\$ 32.18	24.85
GROUP 2.....	\$ 32.06	24.85
GROUP 3.....	\$ 30.35	24.85

SCOPE OF WORK: The construction, installation, treating and reconditioning of pipelines transporting gas vapors within cities, towns, subdivisions, suburban areas, or within private property boundaries, up to and including private meter settings of private industrial, governmental or other premises, more commonly referred to as ""distribution work,"" starting from the first metering station, connection, similar or related facility, of the main or cross country pipeline and including duct installation.

Group 1: Backhoe, crane, grader, mechanic, dozer (D-6 equivalent or larger), side boom (D-4 equivalent or larger), trencher(except service), endloader (2 yd. capacity or greater).

GROUP 2: Dozer (less than D-6 equivalent), endloader (under 2 yd. capacity), side boom (under D-4 capacity), backfiller, pumps (1 or 2 of 6-inch discharge or greater), boom truck (with powered boom), tractor (wheel type other than backhoe or front endloader). Tamper (self-propelled), boom truck (with non-powered boom), concrete saw (20 hp or larger), pumps (2 to 4 under 6-inch discharge), compressor (2 or more or when one is used continuously into the second day) and trencher(service).

GROUP 3: Oiler, hydraulic pipe pushing machine, grease person and hydrostatic testing operator.

IRON0008-007 06/01/2020

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON,
 IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON
 AND SCHOOLCRAFT COUNTIES:

	Rates	Fringes
Ironworker - pre-engineered metal building erector.....	\$ 23.70	6.95
IRONWORKER		
General contracts \$10,000,000 or greater.....	\$ 34.99	27.12
General contracts less than \$10,000,000.....	\$ 34.99	27.12

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor
 Day, Thanksgiving Day & Christmas Day.

 IRON0025-002 06/01/2019

ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON,
 CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO,
 ISABELLA, JACKSON, LAPEER, LIVINGSTON, MACOMB, MIDLAND,
 MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE,
 ROSCOMMON, SAGINAW, SANILAC, SHIAWASSEE, ST. CLAIR, TUSCOLA,
 WASHTENAW AND WAYNE COUNTIES:

	Rates	Fringes
Ironworker - pre-engineered metal building erector Alcona, Alpena, Arenac, Cheboygan, Clare, Clinton, Crawford, Gladwin, Gratiot, Huron, Ingham, Iosco, Isabella, Jackson, Lapeer, Livingston (west of Burkhardt Road), Montmorency, Ogemaw, Oscoda, Otsego, Presque Isle, Roscommon, Sanilac, Shiawassee, Tuscola & Washtenaw (west of U.S. 23).	\$ 24.26	22.11
Bay, Genesee, Lapeer, Livingston (east of Burkhardt Road), Macomb, Midland, Oakland, Saginaw, St. Clair, The University		

of Michigan, Washtenaw (east of U.S. 23) & Wayne...	\$ 25.48	23.11
IRONWORKER		
Ornamental and Structural...	\$ 36.77	29.03
Reinforcing.....	\$ 30.98	27.99

IRON0055-005 07/01/2020

LENAWEE AND MONROE COUNTIES:

	Rates	Fringes
IRONWORKER		
Pre-engineered metal buildings.....	\$ 23.59	19.35
All other work.....	\$ 31.00	25.60

IRON0292-003 06/01/2020

BERRIEN AND CASS COUNTIES:

	Rates	Fringes
IRONWORKER (Including pre-engineered metal building erector).....	\$ 31.75	22.84

IRON0340-001 06/19/2017

ALLEGAN, ANTRIM, BARRY, BENZIE, BRANCH, CALHOUN, CHARLEVOIX,
EATON, EMMET, GRAND TRAVERSE, HILLSDALE, IONIA, KALAMAZOO,
KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA,
MISSAUKEE, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA,
OTTAWA, ST. JOSEPH, VAN BUREN AND WEXFORD COUNTIES:

	Rates	Fringes
IRONWORKER (Including pre-engineered metal building erector).....	\$ 24.43	24.67

LAB00005-006 10/01/2020

	Rates	Fringes
Laborers - hazardous waste abatement: (ALCONA, ALPENA, ANTRIM, BENZIE, CHARLEVOIX, CHEBOYGAN, CRAWFORD, EMMET,		

GRAND TRAVERSE, IOSCO,
 KALKASKA, LEELANAU,
 MISSAUKEE, MONTMORENCY,
 OSCODA, OTSEGO, PRESQUE ISLE
 AND WEXFORD COUNTIES - Zone
 10)

Levels A, B or C.....	\$ 17.45	12.75
class b.....	\$ 18.64	12.90
Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....	\$ 16.45	12.75
class a.....	\$ 17.64	12.90

Zone 10

Laborers - hazardous waste
 abatement: (ALGER, BARAGA,
 CHIPPEWA, DELTA, DICKINSON,
 GOGEBIC, HOUGHTON, IRON,
 KEWEENAW, LUCE, MACKINAC,
 MARQUETTE, MENOMINEE,
 ONTONAGON AND SCHOOLCRAFT
 COUNTIES - Zone 11)

Levels A, B or C.....	\$ 23.58	12.90
Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....	\$ 22.58	12.90

Laborers - hazardous waste
 abatement: (ALLEGAN, BARRY,
 BERRIEN, BRANCH, CALHOUN,
 CASS, IONIA COUNTY (except
 the city of Portland);
 KALAMAZOO, KENT, LAKE,
 MANISTEE, MASON, MECOSTA,
 MONTCALM, MUSKEGON, NEWAYGO,
 OCEANA, OSCEOLA, OTTAWA, ST.
 JOSEPH AND VAN BUREN COUNTIES
 - Zone 9)

Levels A, B or C.....	\$ 21.80	12.90
Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....	\$ 20.80	12.90

Laborers - hazardous waste

abatement: (ARENAC, BAY, CLARE, GLADWIN, GRATIOT, HURON, ISABELLA, MIDLAND, OGEMAW, ROSCOMMON, SAGINAW AND TUSCOLA COUNTIES - Zone 8)		
Levels A, B or C.....	\$ 21.39	12.90
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		
Also, Level D.....	\$ 20.80	12.90
Laborers - hazardous waste abatement: (CLINTON, EATON AND INGHAM COUNTIES; IONIA COUNTY (City of Portland); LIVINGSTON COUNTY (west of Oak Grove Rd., including the City of Howell) - Zone 6)		
Levels A, B or C.....	\$ 25.64	12.90
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		
Also, Level D.....	\$ 24.64	12.90
Laborers - hazardous waste abatement: (GENESEE, LAPEER AND SHIAWASSEE COUNTIES - Zone 7)		
Levels A, B or C.....	\$ 24.20	13.80
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		
Also, Level D.....	\$ 23.20	13.80
Laborers - hazardous waste abatement: (HILLSDALE, JACKSON AND LENAWEЕ COUNTIES - Zone 4)		
Levels A, B or C.....	\$ 25.17	12.90
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		
Also, Level D.....	\$ 24.17	12.90
Laborers - hazardous waste abatement: (LIVINGSTON COUNTY		

(east of Oak Grove Rd. and south of M-59, excluding the city of Howell); AND

WASHTENAW COUNTY - Zone 3)

Levels A, B or C.....\$ 29.93	14.20
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;	
Also, Level D.....\$ 28.93	14.20

Laborers - hazardous waste abatement: (MACOMB AND WAYNE COUNTIES - Zone 1)

Levels A, B or C.....\$ 29.93	16.90
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;	
Also, Level D.....\$ 28.93	16.90

Laborers - hazardous waste abatement: (MONROE COUNTY - Zone 4)

Levels A, B or C.....\$ 31.75	14.90
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;	
Also, Level D.....\$ 31.75	14.90

Laborers - hazardous waste abatement: (OAKLAND COUNTY and the Northeast portion of LIVINGSTON COUNTY bordered by Oak Grove Road on the West and M-59 on the South - Zone 2)

Level A, B, C.....\$ 29.93	16.90
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;	
Also, Level D.....\$ 28.93	16.90

Laborers - hazardous waste abatement: (SANILAC AND ST. CLAIR COUNTIES - Zone 5)

Levels A, B or C.....\$ 25.75	16.35
Work performed in	

conjunction with site
 preparation not requiring
 the use of personal
 protective equipment;
 Also, Level D.....\$ 24.75 16.35

 LAB00259-001 09/01/2018

AREA 1: MACOMB, OAKLAND AND WAYNE COUNTIES
 AREA 2: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA,
 BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX,
 CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA,
 DICKINSON, EATON, EMMET, GENESEE, GLADWIN, GOGEBIC, GRAND
 TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA,
 IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT,
 KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE,
 MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE,
 MIDLAND, MISSAUKEE, MONROE, MONTCALM, MONTMORENCY, MUSKEGON,
 NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO,
 OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST.
 JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN,
 WASHTENAW AND WEXFORD COUNTIES

	Rates	Fringes
Laborers - tunnel, shaft and caisson:		
AREA 1		
GROUP 1.....	\$ 22.57	16.80
GROUP 2.....	\$ 22.68	16.80
GROUP 3.....	\$ 22.74	16.80
GROUP 4.....	\$ 22.92	16.80
GROUP 5.....	\$ 23.17	16.80
GROUP 6.....	\$ 23.50	16.80
GROUP 7.....	\$ 16.78	16.80
AREA 2		
GROUP 1.....	\$ 24.10	12.85
GROUP 2.....	\$ 24.19	12.85
GROUP 3.....	\$ 24.29	12.85
GROUP 4.....	\$ 24.45	12.85
GROUP 5.....	\$ 24.71	12.85
GROUP 6.....	\$ 25.02	12.85
GROUP 7.....	\$ 17.29	12.85

SCOPE OF WORK: Tunnel, shaft and caisson work of every type and description and all operations incidental thereto, including, but not limited to, shafts and tunnels for sewers, water, subways, transportation, diversion, sewerage, caverns, shelters, aquafers, reservoirs, missile

silos and steel sheeting for underground construction.

TUNNEL LABORER CLASSIFICATIONS

GROUP 1: Tunnel, shaft and caisson laborer, dump, shanty, hog house tender, testing (on gas) and watchman

GROUP 2: Manhole, headwall, catch basin builder, bricklayer tender, mortar machine and material mixer

GROUP 3: Air tool operator (jackhammer, bush hammer and grinder), first bottom, second bottom, cage tender, car pusher, carrier, concrete, concrete form, concrete repair, cement invert laborer, cement finisher, concrete shoveler, conveyor, floor, gasoline and electric tool operator, gunite, grout operator, welder, heading dinky person, inside lock tender, pea gravel operator, pump, outside lock tender, scaffold, top signal person, switch person, track, tugger, utility person, vibrator, winch operator, pipe jacking, wagon drill and air track operator and concrete saw operator (under 40 h.p.)

GROUP 4: Tunnel, shaft and caisson mucker, bracer, liner plate, long haul dinky driver and well point

GROUP 5: Tunnel, shaft and caisson miner, drill runner, key board operator, power knife operator, reinforced steel or mesh (e.g. wire mesh, steel mats, dowel bars, etc.)

GROUP 6: Dynamite and powder

GROUP 7: Restoration laborer, seeding, sodding, planting, cutting, mulching and top soil grading; and the restoration of property such as replacing mailboxes, wood chips, planter boxes, flagstones, etc.

LAB00334-001 09/01/2018

	Rates	Fringes
Laborers - open cut:		
ZONE 1 - MACOMB, OAKLAND		
AND WAYNE COUNTIES:		
GROUP 1.....	\$ 22.42	16.80
GROUP 2.....	\$ 22.53	16.80
GROUP 3.....	\$ 22.58	16.80
GROUP 4.....	\$ 22.66	16.80
GROUP 5.....	\$ 22.72	16.80
GROUP 6.....	\$ 20.17	16.80

GROUP 7.....	\$ 16.79	16.80
ZONE 2 - LIVINGSTON COUNTY (east of M-151 (Oak Grove Rd.)); MONROE AND WASHTENAW COUNTIES:		
GROUP 1.....	\$ 23.75	12.85
GROUP 2.....	\$ 23.86	12.85
GROUP 3.....	\$ 23.98	12.85
GROUP 4.....	\$ 24.05	12.85
GROUP 5.....	\$ 24.20	12.85
GROUP 6.....	\$ 21.50	12.85
GROUP 7.....	\$ 18.14	12.85
ZONE 3 - CLINTON, EATON, GENESEE, HILLSDALE AND INGHAM COUNTIES; IONIA COUNTY (City of Portland); JACKSON, LAPEER AND LENAWEЕ COUNTIES; LIVINGSTON COUNTY (west of M-151 Oak Grove Rd.); SANILAC, ST. CLAIR AND SHIAWASSEE COUNTIES:		
GROUP 1.....	\$ 21.94	12.85
GROUP 2.....	\$ 22.08	12.85
GROUP 3.....	\$ 22.20	12.85
GROUP 4.....	\$ 22.25	12.85
GROUP 5.....	\$ 22.39	12.85
GROUP 6.....	\$ 19.69	12.85
GROUP 7.....	\$ 16.84	12.85
ZONE 4 - ALCONA, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, GRATIOT AND HURON COUNTIES; IONIA COUNTY (EXCEPT THE CITY OF PORTLAND); IOSCO, ISABELLA, KALAMAZOO, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE,		

ROSCOMMON, SAGINAW, ST.
 JOSEPH, TUSCOLA, VAN BUREN
 AND WEXFORD COUNTIES:

GROUP 1.....	\$ 20.97	12.85
GROUP 2.....	\$ 21.10	12.85
GROUP 3.....	\$ 21.21	12.85
GROUP 4.....	\$ 21.28	12.85
GROUP 5.....	\$ 21.40	12.85
GROUP 6.....	\$ 18.62	12.85
GROUP 7.....	\$ 16.96	12.85

ZONE 5 - ALGER, BARAGA,
 CHIPPEWA, DELTA,
 DICKINSON, GOGEBIC,
 HOUGHTON, IRON,
 KEWEENAW, LUCE, MACKINAC,
 MARQUETTE, MENOMINEE,
 ONTONAGON AND SCHOOLCRAFT
 COUNTIES:

GROUP 1.....	\$ 21.19	12.85
GROUP 2.....	\$ 21.33	12.85
GROUP 3.....	\$ 21.46	12.85
GROUP 4.....	\$ 21.51	12.85
GROUP 5.....	\$ 21.56	12.85
GROUP 6.....	\$ 18.94	12.85
GROUP 7.....	\$ 17.05	12.85

SCOPE OF WORK:

Open cut construction work shall be construed to mean work which requires the excavation of earth including industrial, commercial and residential building site excavation and preparation, land balancing, demolition and removal of concrete and underground appurtenances, grading, paving, sewers, utilities and improvements; retention, oxidation, flocculation and irrigation facilities, and also including but not limited to underground piping, conduits, steel sheeting for underground construction, and all work incidental thereto, and general excavation. For all areas except the Upper Peninsula, open cut construction work shall also be construed to mean waterfront work, piers, docks, seawalls, breakwalls, marinas and all incidental work. Open cut construction work shall not include any structural modifications, alterations, additions and repairs to buildings, or highway work, including roads, streets, bridge construction and parking lots or steel erection work and excavation for the building itself and back filling inside of and within 5 ft. of the building and foundations, footings and piers for the building. Open cut construction work shall not include any work covered under Tunnel, Shaft and Caisson work.

OPEN CUT LABORER CLASSIFICATIONS

GROUP 1: Construction laborer

GROUP 2: Mortar and material mixer, concrete form person, signal person, well point person, manhole, headwall and catch basin builder, headwall, seawall, breakwall and dock builder

GROUP 3: Air, gasoline and electric tool operator, vibrator operator, driller, pump person, tar kettle operator, bracer, rodder, reinforced steel or mesh person (e.g., wire mesh, steel mats, dowel bars, etc.), welder, pipe jacking and boring person, wagon drill and air track operator and concrete saw operator (under 40 h.p.), windlass and tugger person and directional boring person

GROUP 4: Trench or excavating grade person

GROUP 5: Pipe layer (including crock, metal pipe, multi-plate or other conduits)

GROUP 6: Grouting man, audio-visual television operations and all other operations in connection with closed circuit television inspection, pipe cleaning and pipe relining work and the installation and repair of water service pipe and appurtenances

GROUP 7: Restoration laborer, seeding, sodding, planting, cutting, mulching and top soil grading; and the restoration of property such as replacing mailboxes, wood chips, planter boxes, flagstones, etc.

LAB00465-001 06/01/2020

LABORER: Highway, Bridge and Airport Construction

AREA 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES

AREA 2: ALLEGAN, BARRY, BAY, BERRIEN, BRANCH, CALHOUN, CASS, CLINTON, EATON, GRATIOT, HILLSDALE, HURON, INGHAM, JACKSON, KALAMAZOO, LAPEER, LENAWEE, LIVINGSTON, MIDLAND, MUSKEGON, SAGINAW, SANILAC, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA AND VAN BUREN COUNTIES

AREA 3: ALCONA, ALPENA, ANTRIM, ARENAC, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE,

IONIA, IOSCO, ISABELLA, KALKASKA, KENT, LAKE, LEELANAU,
 MANISTEE, MASON, MECOSTA, MISSAUKEE, MONTCALM, MONTMORENCY,
 NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA,
 PRESQUE ISLE, ROSCOMMON AND WEXFORD COUNTIES

AREA 4: ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC,
 HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE,
 ONTONAGON AND SCHOOLCRAFT COUNTIES

	Rates	Fringes
LABORER (AREA 1)		
GROUP 1.....	\$ 26.22	12.90
GROUP 2.....	\$ 26.43	12.90
GROUP 3.....	\$ 26.72	12.90
GROUP 4.....	\$ 27.16	12.90
GROUP 5.....	\$ 26.78	12.90
GROUP 6.....	\$ 27.21	12.90
LABORER (AREA 2)		
GROUP 1.....	\$ 26.92	12.90
GROUP 2.....	\$ 27.12	12.90
GROUP 3.....	\$ 27.36	12.90
GROUP 4.....	\$ 27.71	12.90
GROUP 5.....	\$ 27.58	12.90
GROUP 6.....	\$ 27.92	12.90
LABORER (AREA 3)		
GROUP 1.....	\$ 26.22	12.90
GROUP 2.....	\$ 26.43	12.90
GROUP 3.....	\$ 26.72	12.90
GROUP 4.....	\$ 27.16	12.90
GROUP 5.....	\$ 26.78	12.90
GROUP 6.....	\$ 27.21	12.90
LABORER (AREA 4)		
GROUP 1.....	\$ 26.22	12.90
GROUP 2.....	\$ 26.43	12.90
GROUP 3.....	\$ 26.72	12.90
GROUP 4.....	\$ 27.16	12.90
GROUP 5.....	\$ 26.78	12.90
GROUP 6.....	\$ 27.21	12.90

LABORER CLASSIFICATIONS

GROUP 1: Asphalt shoveler or loader; asphalt plant misc.;
 burlap person; yard person; dumper (wagon, truck, etc.);
 joint filling laborer; miscellaneous laborer; unskilled
 laborer; sprinkler laborer; form setting laborer; form
 stripper; pavement reinforcing; handling and placing (e.g.,
 wire mesh, steel mats, dowel bars); mason's tender or
 bricklayer's tender on manholes; manhole builder;

headwalls, etc.; waterproofing, (other than buildings) seal coating and slurry mix, shoring, underpinning; pressure grouting; bridge pin and hanger removal; material recycling laborer; horizontal paver laborer (brick, concrete, clay, stone and asphalt); ground stabilization and modification laborer; grouting; waterblasting; top person; railroad track and trestle laborer; carpenters' tender; guard rail builders' tender; earth retention barrier and wall and M.S.E. wall installer's tender; highway and median installer's tender (including sound, retaining, and crash barriers); fence erector's tender; asphalt raker tender; sign installer; remote control operated equipment.

GROUP 2: Mixer operator (less than 5 sacks); air or electric tool operator (jackhammer, etc.); spreader; boxperson (asphalt, stone, gravel); concrete paddler; power chain saw operator; paving batch truck dumper; tunnel mucker (highway work only); concrete saw (under 40 h.p.) and dry pack machine; roto-mill grounds person.

GROUP 3: Tunnel miner (highway work only); finishers tenders; guard rail builders; highway and median barrier installer; earth retention barrier and wall and M.S.E. wall installer's (including sound, retaining and crash barriers); fence erector; bottom person; powder person; wagon drill and air track operator; diamond and core drills; grade checker; certified welders; curb and side rail setter's tender.

GROUP 4: Asphalt raker

GROUP 5: Pipe layers, oxy-gun

GROUP 6: Line-form setter for curb or pavement; asphalt screed checker/screw man on asphalt paving machines.

LAB01076-005 04/01/2019

MICHIGAN STATEWIDE

	Rates	Fringes
LABORER (DISTRIBUTION WORK)		
Zone 1.....	\$ 21.47	12.90
Zone 2.....	\$ 19.77	12.90
Zone 3.....	\$ 17.95	12.90
Zone 4.....	\$ 17.32	12.90
Zone 5.....	\$ 17.30	12.90

DISTRIBUTION WORK - The construction, installation, treating and reconditioning of distribution pipelines transporting coal, oil, gas or other similar materials, vapors or liquids, including pipelines within private property boundaries, up to and including the meter settings on residential, commercial, industrial, institutional, private and public structures. All work covering pumping stations and tank farms not covered by the Building Trades Agreement. Other distribution lines with the exception of sewer, water and cable television are included.

Underground Duct Layer Pay: \$.40 per hour above the base pay rate.

Zone 1 - Macomb, Oakland and Wayne

Zone 2 - Monroe and Washtenaw

Zone 3 - Bay, Genesee, Lapeer, Midland, Saginaw, Sanilac, Shiawassee and St. Clair

Zone 4 - Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac, Marquette, Menominee, Ontonagon and Schoolcraft

Zone 5 - Remaining Counties in Michigan

 PAIN0022-002 07/01/2008

HILLSDALE, JACKSON AND LENAWEE COUNTIES; LIVINGSTON COUNTY (east of the eastern city limits of Howell, not including the city of Howell, north to the Genesee County line and south to the Washtenaw County line); MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES:

	Rates	Fringes
PAINTER.....	\$ 25.06	14.75

FOOTNOTES: For all spray work and journeyman rigging for spray work, also blowing off, \$0.80 per hour additional (applies only to workers doing rigging for spray work on off the floor work. Does not include setting up or moving rigging on floor surfaces, nor does it apply to workers engaged in covering up or tending spray equipment. For all sandblasting and spray work performed on highway bridges, overpasses, tanks or steel, \$0.80 per hour additional. For all brushing, cleaning and other preparatory work (other than spraying or steeplejack work) at scaffold heights of fifty (50) feet from the ground or higher, \$0.50 per hour additional. For all preparatorial work and painting performed on open steel under forty (40) feet when no

scaffolding is involved, \$0.50 per hour additional. For all swing stage work-window jacks and window belts-exterior and interior, \$0.50 per hour additional. For all spray work and sandblaster work to a scaffold height of forty (40) feet above the floor level, \$0.80 per hour additional. For all preparatorial work and painting on all highway bridges or overpasses up to forty (40) feet in height, \$0.50 per hour additional. For all steeplejack work performed where the elevation is forty (40) feet or more, \$1.25 per hour additional.

 PAIN0312-001 06/01/2018

EXCLUDES: ALLEGAN COUNTY (Townships of Dorr, Fillmore, Heath, Hopkins, Laketown, Leighton, Manlius, Monterey, Overisel, Salem, Saugatuck and Wayland); INCLUDES: Barry, Berrien, Branch, Calhoun, Cass, Hillsdale, Kalamazoo, St. Joseph, Van Buren

	Rates	Fringes
PAINTER		
Brush and roller.....	\$ 23.74	13.35
Spray, Sandblast, Sign		
Painting.....	\$ 24.94	13.35

 PAIN0845-003 05/10/2018

CLINTON COUNTY; EATON COUNTY (does not include the townships of Bellevue and Olivet); INGHAM COUNTY; IONIA COUNTY (east of Hwy. M 66); LIVINGSTON COUNTY (west of the eastern city limits of Howell, including the city of Howell, north to the Genesee County line and south to the Washtenaw County line); AND SHIAWASSEE COUNTY (Townships of Bennington, Laingsbury and Perry):

	Rates	Fringes
PAINTER.....	\$ 25.49	13.74

 PAIN0845-015 05/10/2018

MUSKEGON COUNTY; NEWAYGO COUNTY (except the Townships of Barton, Big Prairie, Brooks, Croton, Ensley, Everett, Goodwell, Grant, Home, Monroe, Norwich and Wilcox); OCEANA COUNTY; OTTAWA COUNTY (except the townships of Allendale, Blendone, Chester, Georgetown, Holland, Jamestown, Olive, Park, Polkton, Port

Sheldon, Tallmadge, Wright and Zeeland):

	Rates	Fringes
PAINTER.....	\$ 25.49	13.74

PAIN0845-018 05/10/2018		

ALLEGAN COUNTY (Townships of Dorr, Fillmore, Heath, Hopkins, Laketown, Leighton, Manlius, Monterey, Overisel, Salem, Saugatuck and Wayland); IONIA COUNTY (west of Hwy. M-66); KENT, MECOSTA AND MONTCALM COUNTIES; NEWAYGO COUNTY (Townships of Barton, Big Prairie, Brooks, Croton, Ensley, Everett, Goodwell, Grant, Home, Monroe, Norwich and Wilcox); OSCEOLA COUNTY (south of Hwy. #10); OTTAWA COUNTY (Townships of Allendale, Blendone, Chester, Georgetown, Holland, Jamestown, Olive, Park, Polkton, Port Sheldon, Tallmadge, Wright and Zeeland):

	Rates	Fringes
PAINTER.....	\$ 25.49	13.74

PAIN1011-003 06/02/2019		

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:

	Rates	Fringes
PAINTER.....	\$ 25.76	13.33

FOOTNOTES: High pay (bridges, overpasses, watertower): 30 to 80 ft.: \$.65 per hour additional. 80 ft. and over: \$1.30 per hour additional.		

PAIN1474-002 06/01/2010		
HURON COUNTY; LAPEER COUNTY (east of Hwy. M-53); ST. CLAIR, SANILAC AND TUSCOLA COUNTIES:		

Rates	Fringes
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PAINTER.....\$ 23.79 12.02

FOOTNOTES: Lead abatement work: \$1.00 per hour additional.
 Work with any hazardous material: \$1.00 per hour additional.
 Sandblasting, steam cleaning and acid cleaning: \$1.00 per hour additional.
 Ladder work at or above 40 ft., scaffold work at or above 40 ft., swing stage, boatswain chair, window jacks and all work performed over a falling height of 40 ft.: \$1.00 per hour additional.
 Spray gun work, pick pullers and those handling needles, blowing off by air pressure, and any person rigging (setting up and moving off the ground): \$1.00 per hour additional.
 Steeplejack, tanks, gas holders, stacks, flag poles, radio towers and beacons, power line towers, bridges, etc.: \$1.00 per hour additional, paid from the ground up.

 PAIN1803-003 06/01/2019

ALCONA, ALPENA, ANTRIM, ARENAC, BAY, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, GRATIOT, IOSCO, ISABELLA, KALKASKA, LAKE, LEELANAU, MANISTEE, MASON, MIDLAND, MISSAUKEE, MONTMORENCY AND OGEMAW COUNTIES; OSCEOLA COUNTY (north of Hwy. #10); OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW AND WEXFORD COUNTIES:

Rates Fringes

PAINTER

Work performed on water, bridges over water or moving traffic, radio and powerline towers, elevated tanks, steeples, smoke stacks over 40 ft. of falling heights, recovery of lead-based paints and any work associated with industrial plants, except maintenance of industrial

plants.....\$ 25.39	14.68
All other work, including maintenance of industrial plant.....\$ 25.39	14.68

FOOTNOTES: Spray painting, sandblasting, blowdown associated with spraying and blasting, water blasting and work involving a swing stage, boatswain chair or spider: \$1.00

per hour additional. All work performed inside tanks, vessels, tank trailers, railroad cars, sewers, smoke stacks, boilers or other spaces having limited egress not including buildings, opentop tanks, pits, etc.: \$1.25 per hour additional.

 PLAS0514-001 06/01/2018

ZONE 1: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, SAGINAW, WASHTENAW AND WAYNE COUNTIES

ZONE 2: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
ZONE 1.....	\$ 31.47	13.81
ZONE 2.....	\$ 29.97	13.81

 PLUM0190-003 05/01/2015

ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GENESEE, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE, MACKINAC, MACOMB, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MONROE, MUSKEGON, NEWAYGO, OAKLAND, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN, WASHTENAW, WAYNE AND WEXFORD COUNTIES

	Rates	Fringes
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Plumber/Pipefitter - gas
distribution pipeline:
Welding in conjunction
with gas distribution
pipeline work.....\$ 33.03 20.19
All other work:.....\$ 24.19 12.28

TEAM0007-004 06/01/2020

AREA 1: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA,
BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX,
CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA,
DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE,
GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO,
IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW,
LAKE, LAPEER, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE,
MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE,
MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW,
ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE,
ROSCOMMON, SAGINAW, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST.
CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW
AND WAYNE COUNTIES

	Rates	Fringes
TRUCK DRIVER		
AREA 1		
Euclids, double bottoms and lowboys.....	\$ 28.05	.50 + a+b
Trucks under 8 cu. yds.....	\$ 27.80	.50 + a+b
Trucks, 8 cu. yds. and over.....	\$ 27.90	.50 + a+b
AREA 2		
Euclids, double bottomms and lowboys.....	\$ 24.895	.50 + a+b
Euclids, double bottoms and lowboys.....	\$ 28.15	.50 + a+b
Trucks under 8 cu. yds.....	\$ 27.90	.50 + a+b
Trucks, 8 cu. yds. and over.....	\$ 28.00	.50 + a+b

Footnote:
a. \$47.70 per week
b. \$68.70 daily

TEAM0247-004 04/01/2013

AREA 1: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SANILAC, SCHOOLCRAFT, SHIAWASSEE, SAGINAW, ST. CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES

	Rates	Fringes
Sign Installer		
AREA 1		
GROUP 1.....	\$ 21.78	11.83
GROUP 2.....	\$ 25.27	11.8375
AREA 2		
GROUP 1.....	\$ 22.03	11.83
GROUP 2.....	\$ 25.02	11.8375

FOOTNOTE:

a. \$132.70 per week, plus \$17.80 per day.

SIGN INSTALLER CLASSIFICATIONS:

GROUP 1: performs all necessary labor and uses all tools required to construct and set concrete forms required in the installation of highway and street signs

GROUP 2: performs all miscellaneous labor, uses all hand and power tools, and operates all other equipment, mobile or otherwise, required for the installation of highway and street signs

TEAM0247-010 04/01/2018

AREA 1: LAPEER AND SHIAWASSEE COUNTIES

AREA 2: GENESEE, MACOMB, MONROE, OAKLAND, ST. CLAIR, WASHTENAW

AND WAYNE COUNTIES

	Rates	Fringes
TRUCK DRIVER (Underground construction)		
AREA 1		
GROUP 1.....	\$ 23.82	19.04
GROUP 2.....	\$ 23.91	19.04
GROUP 3.....	\$ 24.12	19.04
AREA 2		
GROUP 1.....	\$ 24.12	19.04
GROUP 2.....	\$ 24.26	19.04
GROUP 3.....	\$ 24.45	19.04

PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

SCOPE OF WORK: Excavation, site preparation, land balancing, grading, sewers, utilities and improvements; also including but not limited to, tunnels, underground piping, retention, oxidation, flocculation facilities, conduits, general excavation and steel sheeting for underground construction. Underground construction work shall not include any structural modifications, alterations, additions and repairs to buildings or highway work, including roads, streets, bridge construction and parking lots or steel erection.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Truck driver on all trucks (EXCEPT dump trucks of 8 cubic yards capacity or over, pole trailers, semis, low boys, Euclid, double bottom and fuel trucks)

GROUP 2: Truck driver on dump trucks of 8 cubic yards capacity or over, pole trailers, semis and fuel trucks

GROUP 3: Truck driver on low boy, Euclid and double bottom

SUMI2002-001 05/01/2002

	Rates	Fringes
Flag Person.....	\$ 10.10	0.00

LINE PROTECTOR (ZONE 1:
GENESEE, MACOMB, MONROE,

OAKLAND, WASHTENAW AND WAYNE)....\$ 20.30	12.90
LINE PROTECTOR (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE).....\$ 18.02	12.90
Pavement Marking Machine (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES) Group 1.....\$ 27.07	12.90
Pavement Marking Machine (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE) Group 2.....\$ 24.36	12.90
Pavement Marking Machine (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES) Group 1.....\$ 24.02	12.90
Pavement Marking Machine (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE) Group 2.....\$ 21.62	12.90

WORK CLASSIFICATIONS:

PAVEMENT MARKER GROUP 1: Drives or operates a truck mounted striper, grinder, blaster, groover, or thermoplastic melter for the placement or removal of temporary or permanent pavement markings or markers.

PAVEMENT MARKER GROUP 2: Performs all functions involved for the placement or removal of temporary or permanent pavement markings or markers not covered by the classification of Pavement Marker Group 1 or Line Protector.

LINE PROTECTOR: Performs all operations for the protection or removal of temporary or permanent pavement markings or markers in a moving convoy operation not performed by the classification of Pavement Marker Group 1. A moving convoy operation is comprised of only Pavement Markers Group 1 and Line Protectors.

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.
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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example:

PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an

interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

**CITY OF ANN ARBOR
LIVING WAGE ORDINANCE DECLARATION OF COMPLIANCE**

The Ann Arbor Living Wage Ordinance (Section 1:811-1:821 of Chapter 23 of Title I of the Code) requires that an employer who is (a) a contractor providing services to or for the City for a value greater than \$10,000 for any twelve-month contract term, or (b) a recipient of federal, state, or local grant funding administered by the City for a value greater than \$10,000, or (c) a recipient of financial assistance awarded by the City for a value greater than \$10,000, shall pay its employees a prescribed minimum level of compensation (i.e., Living Wage) for the time those employees perform work on the contract or in connection with the grant or financial assistance. The Living Wage must be paid to these employees for the length of the contract/program.

Companies employing fewer than 5 persons and non-profits employing fewer than 10 persons are exempt from compliance with the Living Wage Ordinance. If this exemption applies to your company/non-profit agency please check here No. of employees__

The Contractor or Grantee agrees:

- (a) To pay each of its employees whose wage level is not required to comply with federal, state or local prevailing wage law, for work covered or funded by a contract with or grant from the City, no less than the Living Wage. The current Living Wage is defined as \$14.05/hour for those employers that provide employee health care (as defined in the Ordinance at Section 1:815 Sec. 1 (a)), or no less than \$15.66/hour for those employers that do not provide health care. The Contractor or Grantor understands that the Living Wage is adjusted and established annually on April 30 in accordance with the Ordinance and covered employers shall be required to pay the adjusted amount thereafter to be in compliance with Section 1:815(3).

Check the applicable box below which applies to your workforce

Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage without health benefits

Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage with health benefits

- (b) To post a notice approved by the City regarding the applicability of the Living Wage Ordinance in every work place or other location in which employees or other persons contracting for employment are working.
- (c) To provide to the City payroll records or other documentation within ten (10) business days from the receipt of a request by the City.
- (d) To permit access to work sites to City representatives for the purposes of monitoring compliance, and investigating complaints or non-compliance.
- (e) To take no action that would reduce the compensation, wages, fringe benefits, or leave available to any employee covered by the Living Wage Ordinance or any person contracted for employment and covered by the Living Wage Ordinance in order to pay the living wage required by the Living Wage Ordinance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services or agrees to accept financial assistance in accordance with the terms of the Living Wage Ordinance. The undersigned certifies that he/she has read and is familiar with the terms of the Living Wage Ordinance, obligates the Employer/Grantee to those terms and acknowledges that if his/her employer is found to be in violation of Ordinance it may be subject to civil penalties and termination of the awarded contract or grant of financial assistance.

Company Name

Street Address

Signature of Authorized Representative

Date

City, State, Zip

Print Name and Title

Phone/Email address

**CITY OF ANN ARBOR
LIVING WAGE ORDINANCE**

RATE EFFECTIVE APRIL 30, 2021 - ENDING APRIL 29, 2022

\$14.05 per hour

If the employer provides health care benefits*

\$15.66 per hour

If the employer does **NOT** provide health care benefits*

Employers providing services to or for the City of Ann Arbor or recipients of grants or financial assistance from the City of Ann Arbor for a value of more than \$10,000 in a twelve-month period of time must pay those employees performing work on a City of Ann Arbor contract or grant, the above living wage.

ENFORCEMENT

The City of Ann Arbor may recover back wages either administratively or through court action for the employees that have been underpaid in violation of the law. Persons denied payment of the living wage have the right to bring a civil action for damages in addition to any action taken by the City.

Violation of this Ordinance is punishable by fines of not more than \$500/violation plus costs, with each day being considered a separate violation. Additionally, the City of Ann Arbor has the right to modify, terminate, cancel or suspend a contract in the event of a violation of the Ordinance.

* Health Care benefits include those paid for by the employer or making an employer contribution toward the purchase of health care. The employee contribution must not exceed \$.50 an hour for an average work week; and the employer cost or contribution must equal no less than \$1/hr for the average work week.

The Law Requires Employers to Display This Poster Where Employees Can Readily See It.

**For Additional Information or to File a Complaint contact
Colin Spencer at 734/794-6500 or cspencer@a2gov.org**

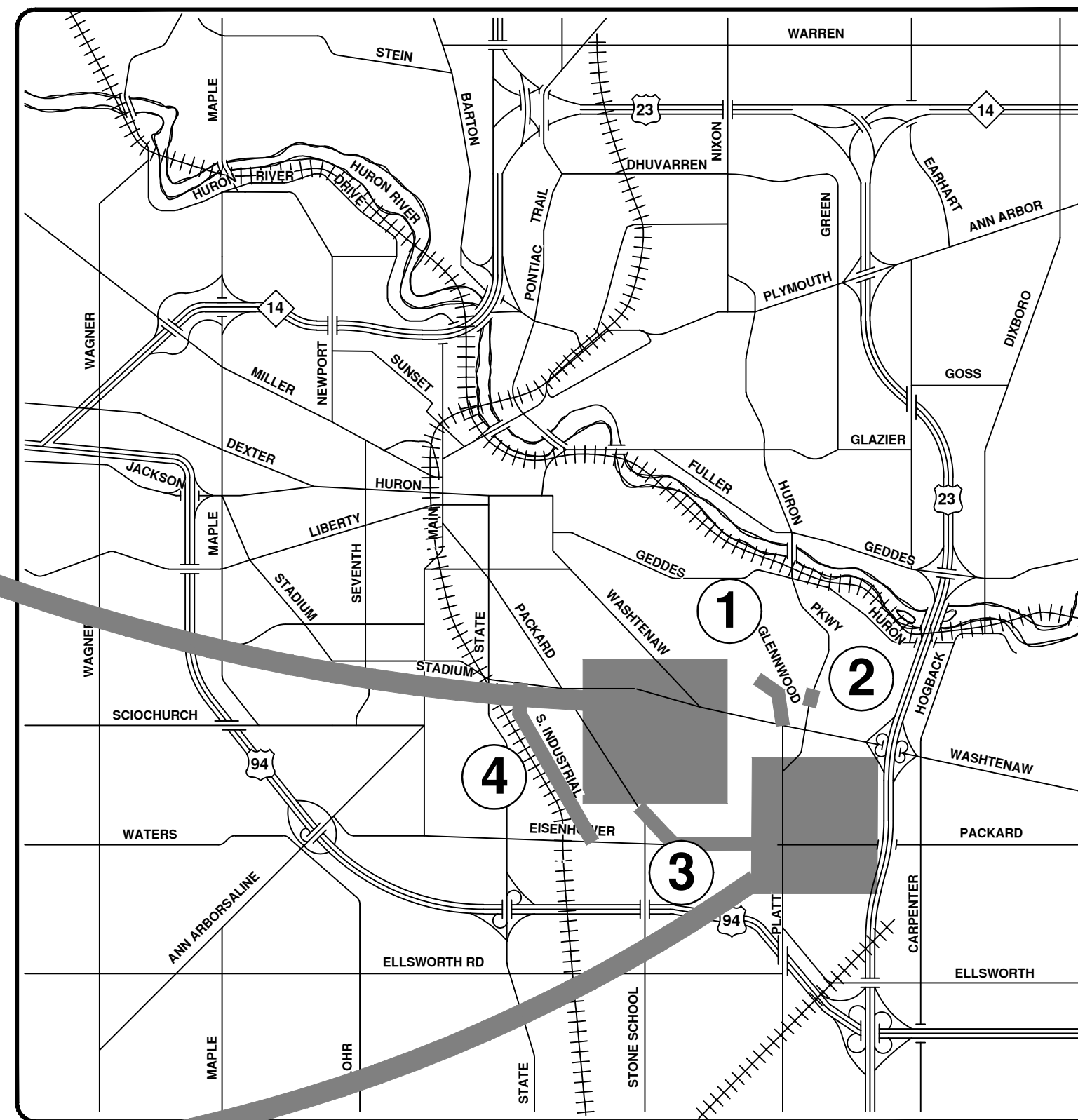
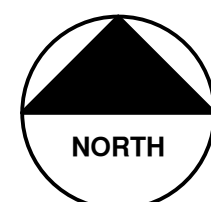
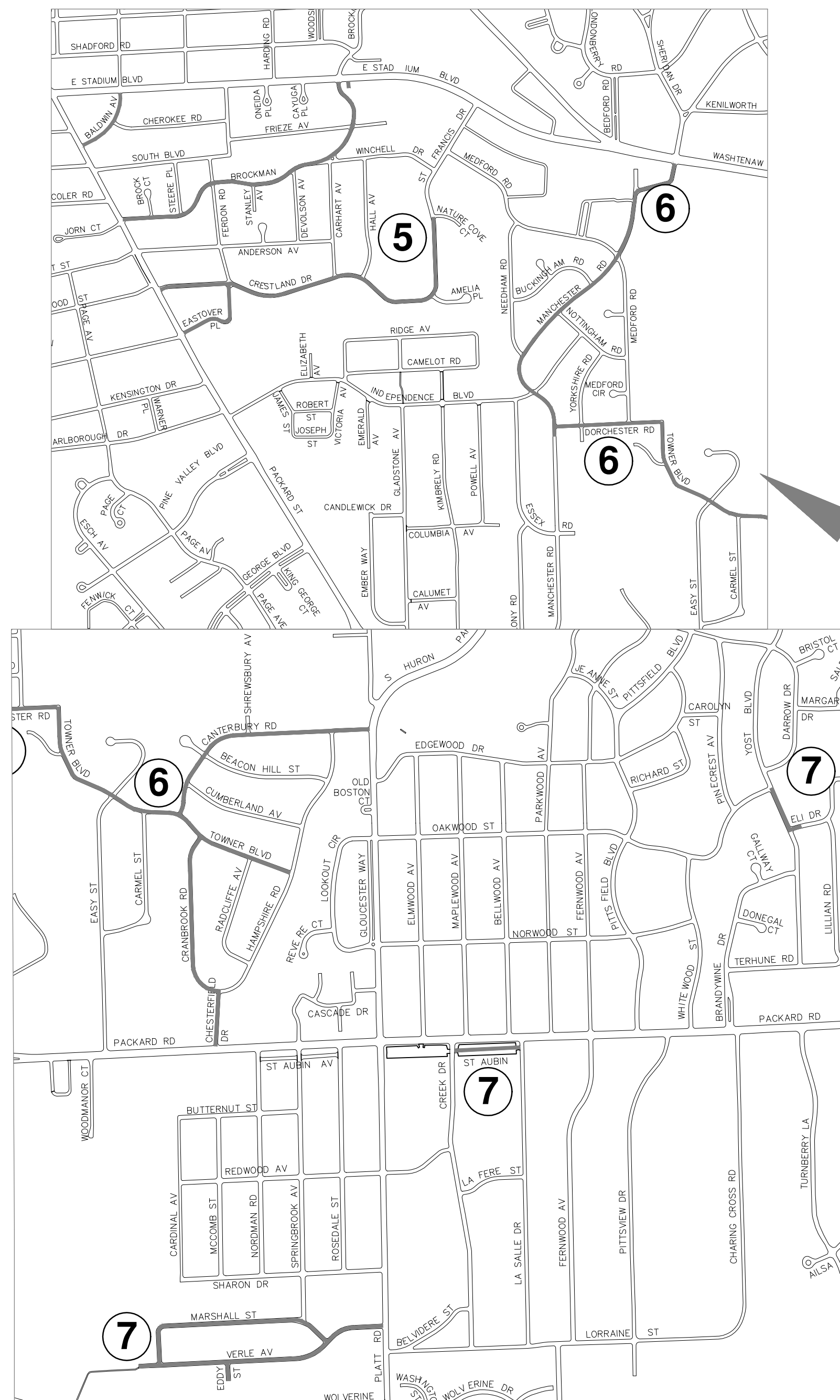
Revised 2/4/2021



CITY OF ANN ARBOR ENGINEERING

STREET RESURFACING PROJECT - 2021

BID No. 4667, FILE No. 2021-004



VICINITY MAP

NOTES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.

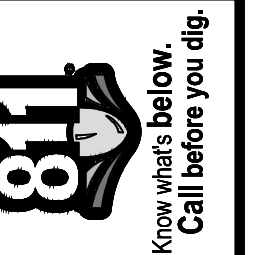
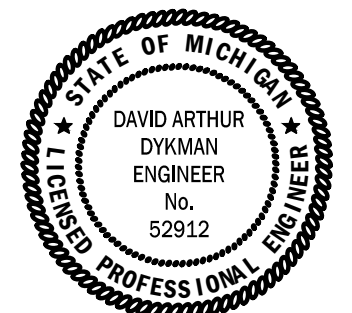
SHEET INDEX

SHEET NO.	TITLE	MAP INDEX NO. (THIS SHEET)
1	COVER SHEET	
2	NOTES AND MISCELLANEOUS QUANTITIES	
3	SOIL EROSION AND SEDIMENTATION CONTROL (SESC) NOTES AND DETAILS	
4	DETAILS	
5-14	TRAFFIC CALMING DETAIL	
13-14	LOCAL STREET TRAFFIC CONTROL	
15-22	PACKARD STREET HMA PATH	1
23-25	HURON PKWY APPROACH TO LINDSAY LANE	2
26-30	GLENWOOD ROAD	3
31-32	S. INDUSTRIAL HMA	4
33-38	PHASE 1 - BALDWIN AVE, BROCKMAN BLVD, CRESTLAND ST, EASTOVER PLACE, SAINT FRANCIS DR	5
39-45	PHASE 2A - CANTERBURY RD, CHESTERFIELD ST, CRANBROOK RD, DORCHESTER RD, MANCHESTER RD, TOWNER BLVD	6
46-51	PHASE 3 - EDDY ST, MARSHALL ST, SAINT AUBIN AVE, VERLE AVE, YOST BLVD AND ELI RD SIDEWALK	7

PREPARED UNDER THE SUPERVISION OF

David Arthur Dykman
DAVID ARTHUR DYKMAN, P.E. - MI LICENSE No. 52912
PROJECT MANAGER

02/20/2021
DATE



REV.	DATE	DESCRIPTION
01	03/25/21	AG/CE/OS DRAWN

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
www.a2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2021
COVER SHEET

SCALE: NTS
DRAWING No. 2021-004-1
SHEET No. 1 OF 51

GENERAL NOTES:

1. Driveways and entrances to buildings, real property, and the like shall not be blocked except for short durations and only when approved by the Engineer. Vehicular and pedestrian access shall be maintained at all times. It shall be the Contractor's responsibility to coordinate all necessary driveway closures with the property owner(s) and resident(s) in the areas of construction.
2. The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
3. During non-working hours no more than ten (10) feet of trench shall remain open; any open trench shall be properly secured with protective fencing. This work shall be included in the items of work being undertaken and will not be paid for separately.
4. The location of material stock piles and on-site staging areas shall be approved by the Engineer.
5. For mainline HMA Paving, the width of the mat for each pass of the paver shall be not less than 10.5', nor greater than 16', except as noted in the plans and as directed by the Engineer. The Engineer will direct the layout of all HMA Longitudinal Joints during construction.
6. All excavation required to construct sidewalk and sidewalk ramps shall be included in the contract pay item "Grading, Sidewalk and Sidewalk Ramps".
7. Some storm sewer may unavoidably become damaged during construction, or it may be determined by the Engineer that existing storm sewer needs to be replaced. In either case the Engineer may direct the sewer to be removed and replaced. The removal of existing sewer and drainage structures, as required, shall be included in the respective contract pay items "Sewer, Rem, Less than 24 inch" and "Dr Structure, Rem". The replacement sewer shall be installed and paid for at the corresponding contract unit price, if contained within the contract, for the various types and sizes of sewer to be replaced.
8. The Contractor shall remove and stockpile on site at a location mutually agreed upon by the Contractor and Engineer any/all existing City owned structure covers designated for salvage, and within two days of their removal deliver them to the W.R. Wheeler Service Center (4251 Stone School Rd, Ann Arbor, MI). Any structure covers not designated for salvage shall become the property of the Contractor and disposed of, as required, by the Contractor.
9. Payment for drainage structure sumps where specified shall be included in the payment for the various drainage structures sizes and/or types.
10. Where pipes of different sizes or materials are joined, Fernco Flexible Couplings with stainless steel shear rings shall be used. The Contractor's purchase price for these devices, including shipping, shall be paid as an extra. Prior to payment for this item, the Contractor shall submit receipts for the Engineer's review and approval. All other costs associated with the installation of these devices shall be included in the payment for the sewer.

11. Where storm sewer is to be removed and replaced or added, all pipe shall be installed using the utility trench details shown elsewhere in the plan sheets and/or detailed in the specifications. Trench Details I and V require the use of MDOT Class II Granular Material.
12. If the Contractor encounters existing edge drain(s) during construction of the proposed edge drains, inlet leads, or catch basins, it shall be capped at each end to prevent material from entering the pipe. The cost of this work will not be paid for separately, but shall be included in the particular item of work being performed when existing edge drain(s) are encountered.
13. In areas where edge drain cannot be installed in accordance with the details, the edge drain shall be installed at the depth as indicated on the plans, or as directed by the Engineer. In no case shall the edge drain be installed at a grade less than 0.50% or at a depth less than 6 inches above the invert of the lowest outlet pipe.
14. Existing street name signs, guide, bus stop, and regulatory signs which conflict with the proposed construction shall be removed prior to construction, stored in a manner which will prevent damage, and re-set in locations as directed by the Engineer. This work will not be paid for separately, but shall be included in the contract pay item "Minor Traf Devices."
15. All curb, sidewalk, driveway approach removals shall be approved by the Engineer before the work is performed.
16. Place 4 inches (minimum) thickness Granular Material Class II compacted to 95% of its max. dry density under concrete sidewalk as shown on the details. This work shall be included in the contract item "Subbase, CIP."
17. Place 6 inches (minimum) Granular Material Class II compacted to 95% of its max. dry density under concrete driveway approaches, and 6 inches (minimum) Dense-Graded Aggregate 21AA compacted to 98% of its max. dry density under HMA driveway approaches. This work shall be included in the respective contract pay items "Subbase, CIP" and "Aggregate Base, 6 inch, Modified".
18. A uniform coat(s) of curing compound shall be applied according to the Standard Specifications and Special Provisions regardless of the difficulty involved. The Contractor shall take care to prevent overspray when applying curing compound. Several different methods may need to be developed to protect various situations, but all methods used to prevent overspray of the curing compound shall be completely effective. Methods used shall be approved by the Engineer prior to use, however approval of a method does not guarantee success or acceptability. No additional compensation shall be made for complying with these requirements.

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

PERMIT	ISSUING AUTHORITY
*LANE CLOSURE PERMIT	CITY OF ANN ARBOR ENGINEERING
*GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT	CITY OF ANN ARBOR CUSTOMER SERVICE
*RIGHT-OF-WAY PERMIT	CITY OF ANN ARBOR CUSTOMER SERVICE
*RIGHT-OF-WAY CONSTRUCTION PERMIT	MICHIGAN DEPARTMENT OF TRANSPORTATION
* NO COST TO CONTRACTOR	

CONTACT INFORMATION

PUBLIC UTILITIES	OWNER	CONTACT
WATER		DAN WOODEN (734) 794-6350 DWOODEN@A2GOV.ORG
SANITARY		TRAVIS CONLEY (734) 794-6350 TCONLEY@A2GOV.ORG
STORM	CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	KEVIN SCHNEIDER (734) 794-6350 KSCHNEIDER@A2GOV.ORG
FORESTRY		MATT WALDSMITH (734) 794-6350 MWALDSMITH@A2GOV.ORG
SIGNALS STREET LIGHTS		CHUCK FOJTIK (734) 794-6361 CFOJTIK@A2GOV.ORG
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	ROBERT CZAPIEWSKI (734) 544-7818
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	ANTHONY IGNASIAK (734) 397-4447
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	JEFF LEHMAN SR (734) 996-5334
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016
FIBER OPTIC	WINDSTREAM 1295 S. LINDEN ROAD, SUITE B FLINT, MI 48532	GREG SERICH (810) 244-3500
STREET LIGHTING	DTE ENERGY 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	LANCE ALLEY (734) 397-4188



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01	ADDENDUM 3		REV.	

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
734.794.6410
www.a2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2021
NOTES & MISCELLANEOUS QUANTITIES

SCALE: NTS
DRAWING No.
2021-004-2

GENERAL

NOTIFY THE CITY OF ANN ARBOR SOIL EROSION CONTROL OFFICE 48 HOURS PRIOR TO BEGINNING WORK ON THE PROJECT. PHONE: 734-794-6265.

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, CITY ORDINANCE CHAPTER 63, CITY OF ANN ARBOR STANDARDS DIVISION VII, 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 FROM 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 MUD/SOIL 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-TYPE STREET SWEEPER, AT NO ADDITIONAL COST TO THE CITY OF ANN ARBOR, WITHIN FOUR (4) HOURS OF BEING SO ORDERED.
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 GRADE.
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.

SEQUENCE OF EROSION CONTROL MEASURES:

1. THE CONTRACTOR IS TO SUBMIT TO THE ENGINEER, A SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION CONTROL MEASURES FOR REVIEW, COMMENT AND APPROVAL. THIS SCHEDULE IS TO INCLUDE INSPECTION AND REPAIR OF ALL TEMPORARY EROSION CONTROL MEASURES DAILY AND WITHIN 24 HOURS OF A STORM EVENT.

SAMPLE SOIL EROSION AND SEDIMENTATION CONTROL INSTALLATION MINIMUM REQUIREMENTS:

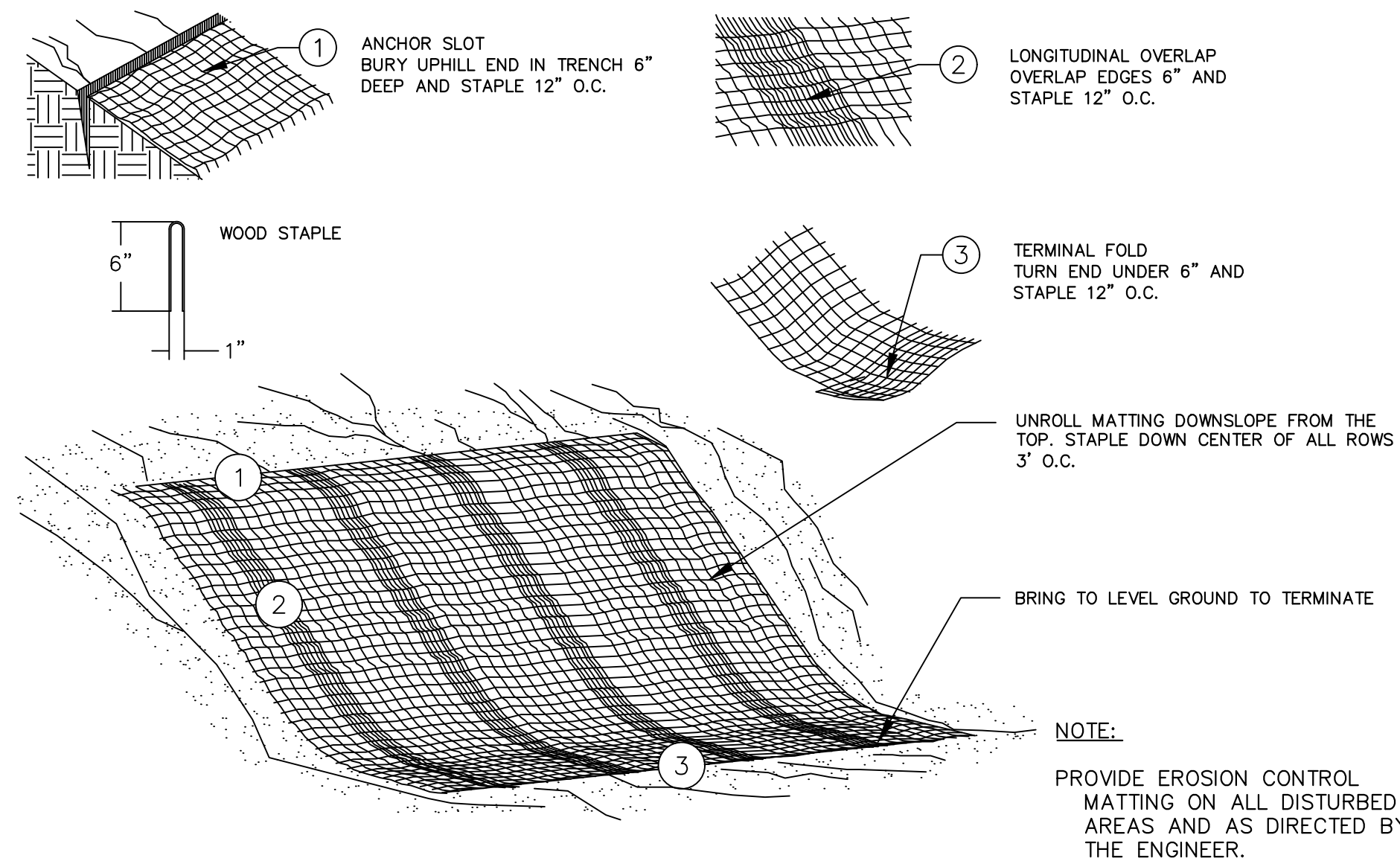
- 1.1. INSTALL SILT FENCE, TREE PROTECTION FENCING, MUD MATS, INLET FILTERS ON EXISTING DRAINAGE FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- 1.2. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.
- 1.3. INSTALL WATER MAINS, STORM AND SANITARY SEWERS, AND OTHER ENCLOSED DRAINAGE FEATURES. NEW INLET FILTERS SHALL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF NEW DRAINAGE INLETS.

- 1.4. PERFORM MACHINE GRADING OPERATIONS AND CONSTRUCT PAVEMENTS (MAINLINE, SIDEWALKS, DRIVES, ETC.).
- 1.5. CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY.
- 1.6. COMPLETE ALL BIORETENTION GRADING AND FINE GRADING.
- 1.7. TEMPORARY SEED AND INSTALL EROSION CONTROL BLANKET IN ALL DISTURBED AREAS.
- 1.8. REFER TO LANDSCAPE PLANTING PLANS FOR PERMANENT SITE STABILIZATION.
- 1.9. CLEAN OUT STORM SEWER SYSTEMS.
- 1.10. REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.
- 1.11. ALL TEMP. SOIL EROSION CONTROL MEASURES MUST BE REMOVED, WITH ENGINEERS 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 SEQUENCE AND SCHEDULE TO THE ENGINEER FOR REVIEW, COMMENT, AND APPROVAL.

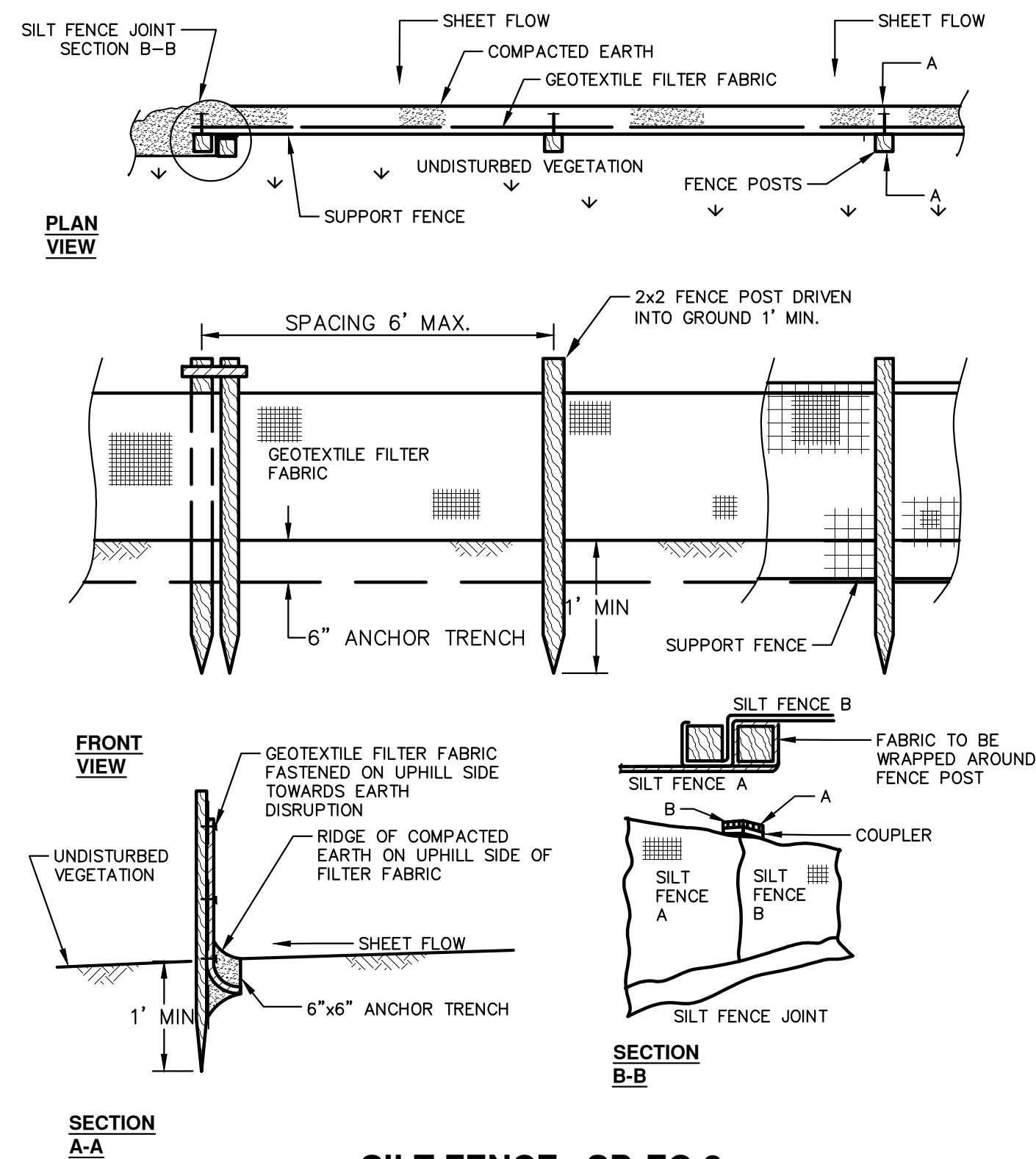
TEMPORARY SEEDING:

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 30TH IS TO BE TEMPORARILY STABILIZED PER SPECIFICATIONS.

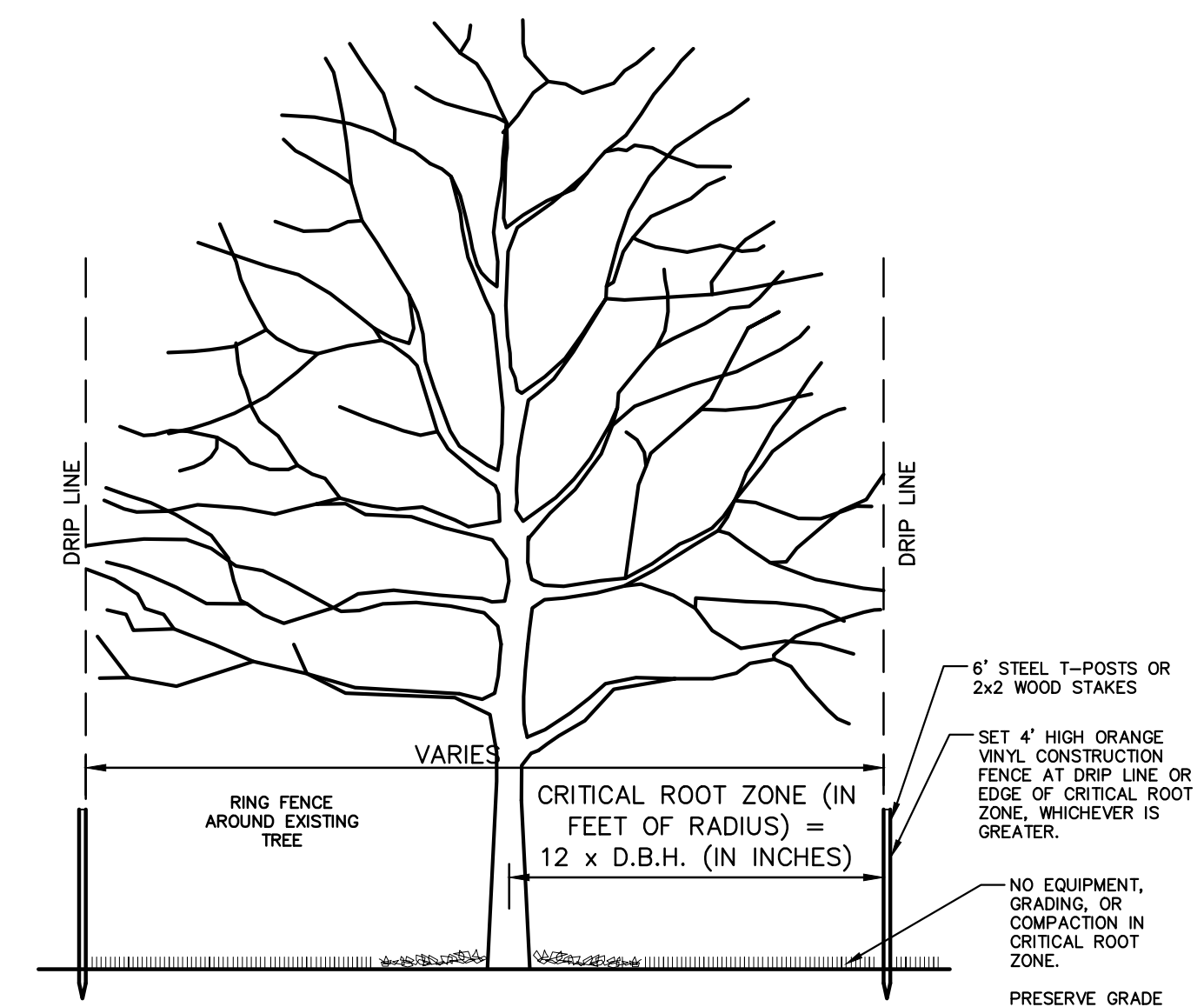


MULCH BLANKET DETAIL

APPLIES TO ALL AREAS TO BE PERMANENTLY RESTORED WITH GRASS. SEE LANDSCAPE PLANS FOR MORE DETAILS.



SILT FENCE SD-EC-3



TREE PROTECTION SD-L-3

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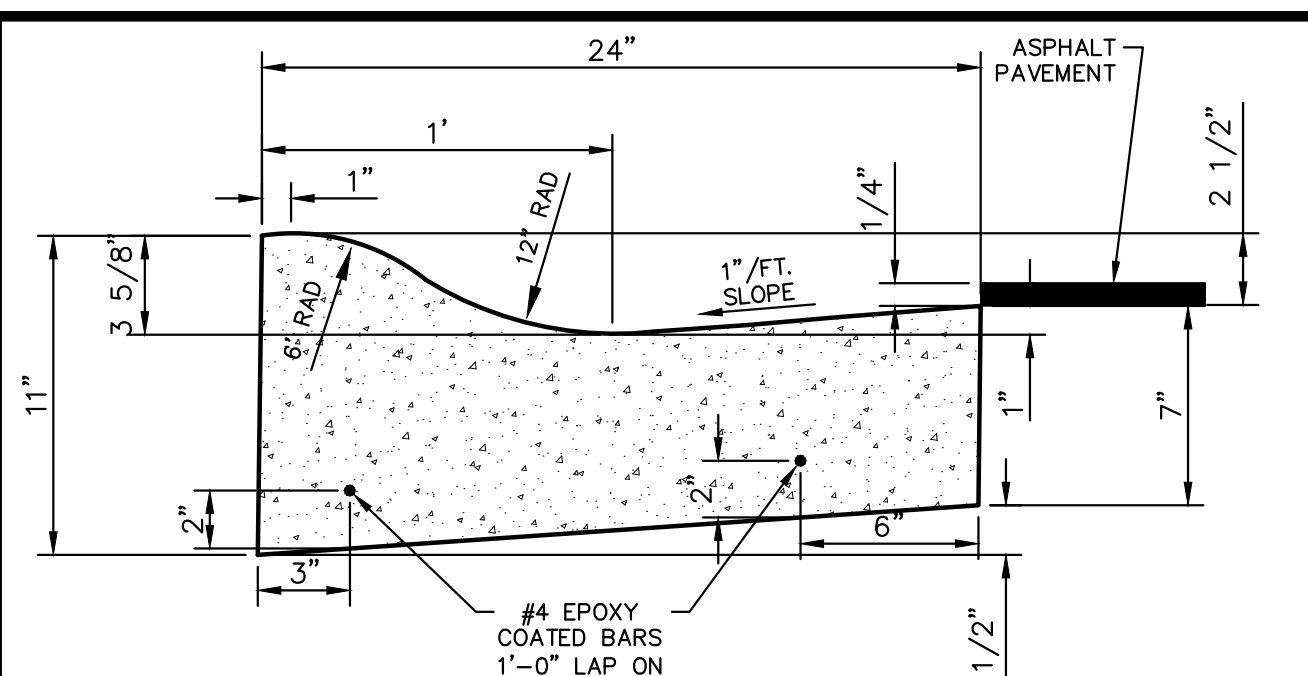
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2021
SESC NOTES AND DETAILS

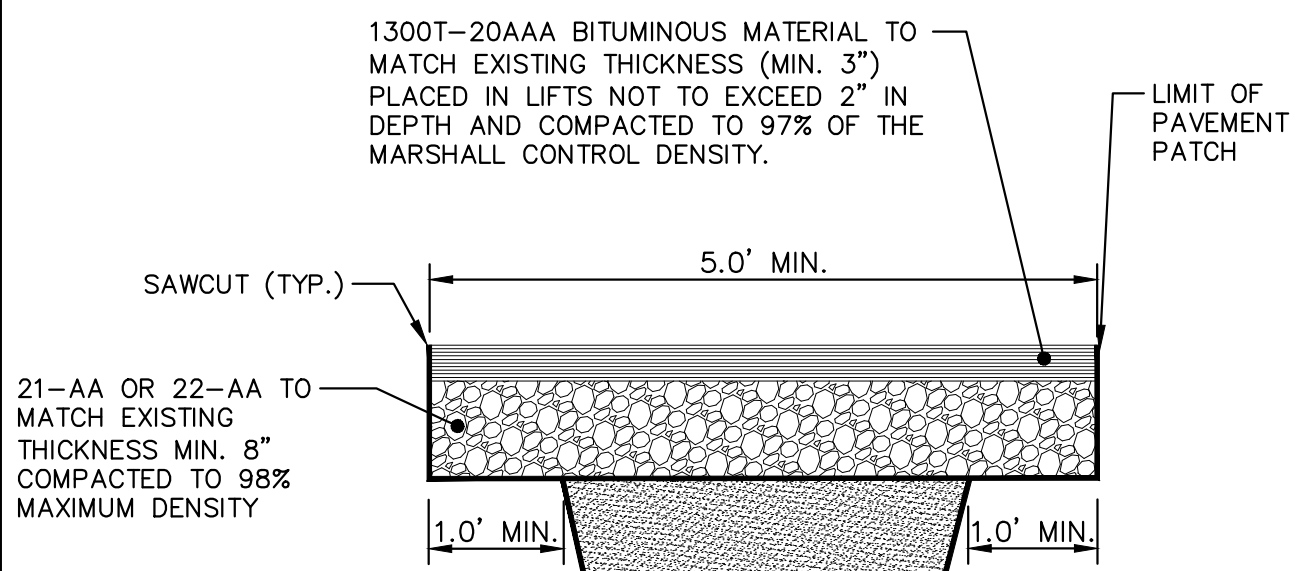
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SHEET No.

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- NOTES:
- FRONT EDGE OF INLET CASTINGS SHALL BE FLUSH WITH FRONT EDGE OF GUTTER (EDGE-OF-METAL).
 - THIS DETAIL SHALL BE USED FOR MOUNTABLE CURB AND GUTTER ON ASPHALT STREETS. SEE SD-R-3 FOR MOUNTABLE CURB AND GUTTER ON CONCRETE STREETS.

MOUNTABLE CURB & GUTTER FOR ASPHALT STREETS SD-R-2



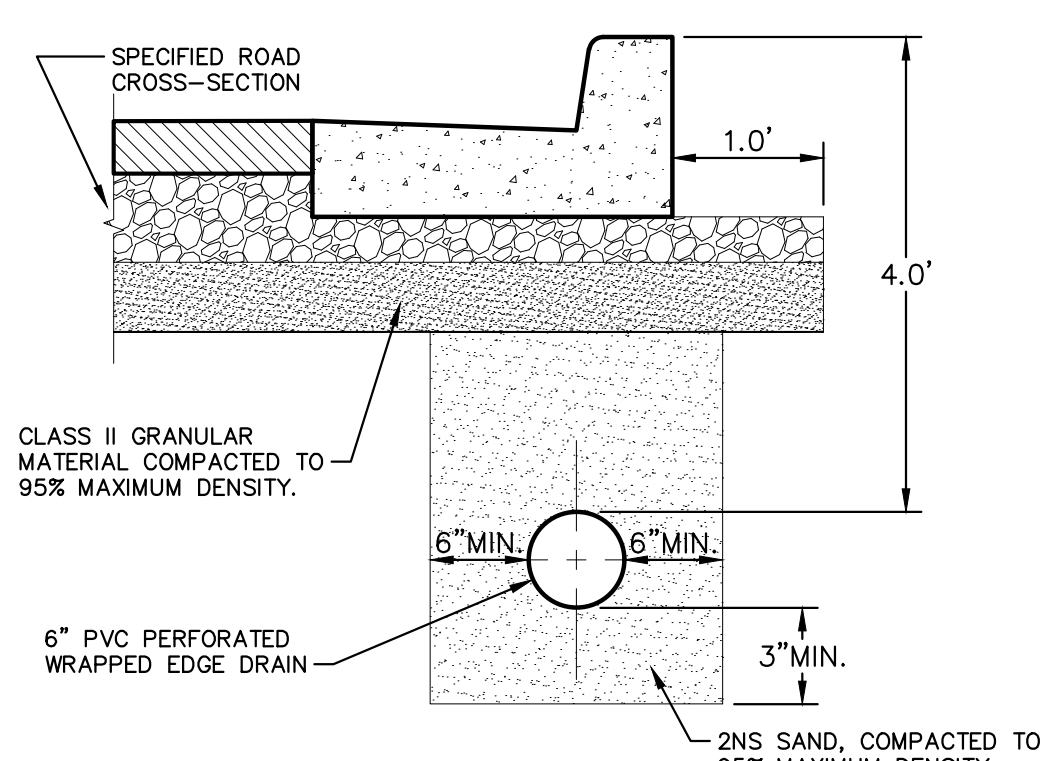
CLASS II GRANULAR MATERIAL COMPACTED TO 95% MAXIMUM DENSITY PER CITY OF ANN ARBOR STANDARDS (SEE DIVISION IV REGARDING BACKFILL FOR PVC SEWERS)

MINIMUM PIPE BEDDING PER CITY OF ANN ARBOR SPECIFICATION (4' MIN.)

MINIMUM TRENCH WIDTH PER CITY OF ANN ARBOR STANDARDS

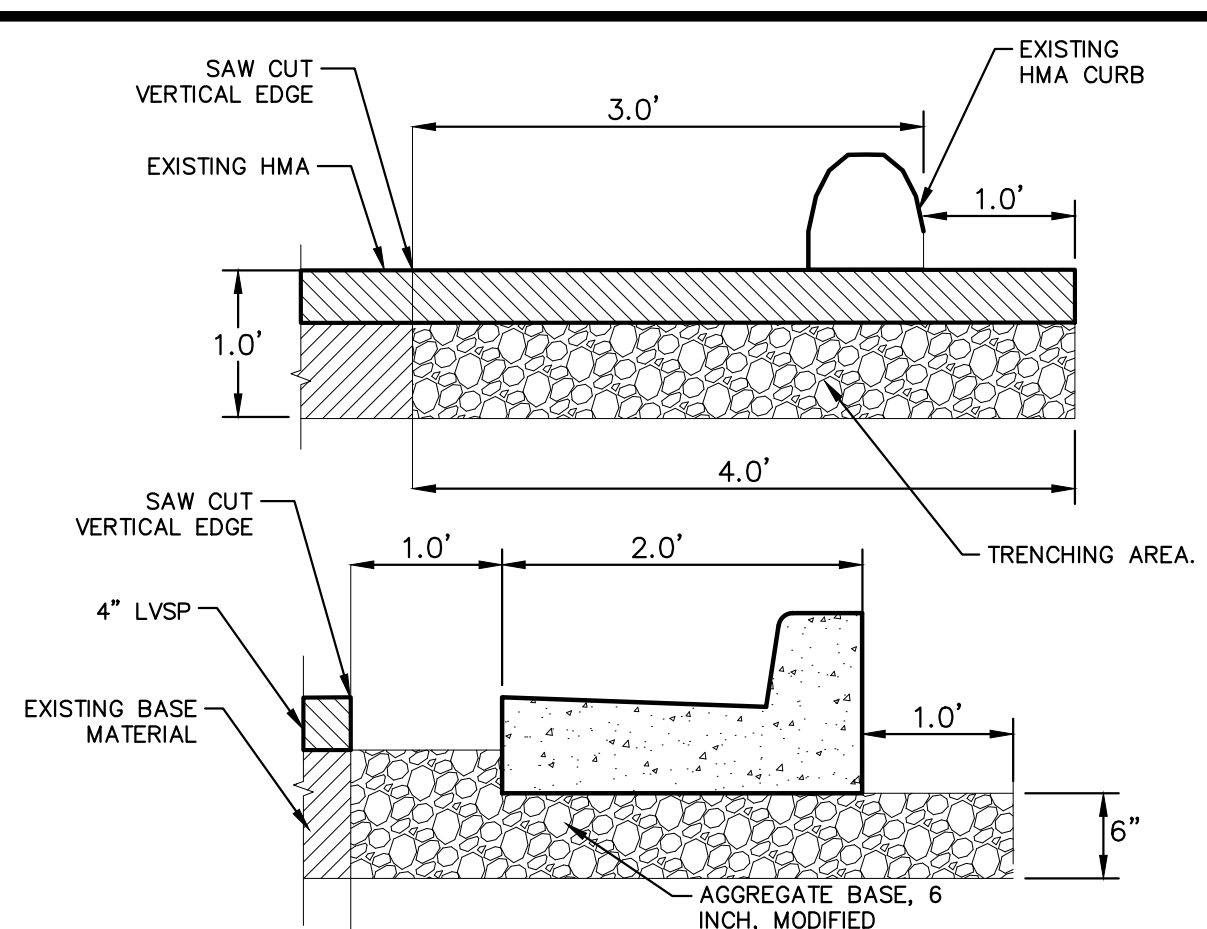
- NOTES:
- DENSITY TESTING PER CITY ANN ARBOR SPECIFICATION
 - TRENCH DETAILS SHOW TYPE OF BACKFILL AND SURFACE RESTORATION ONLY.
 - ALL TRENCHING TO CONFORM TO ALL APPLICABLE M.I.O.S.H.A. STANDARDS

UTILITY TRENCH-TYPE I SD-TD-1 (UNDER BITUMINOUS SURFACE)



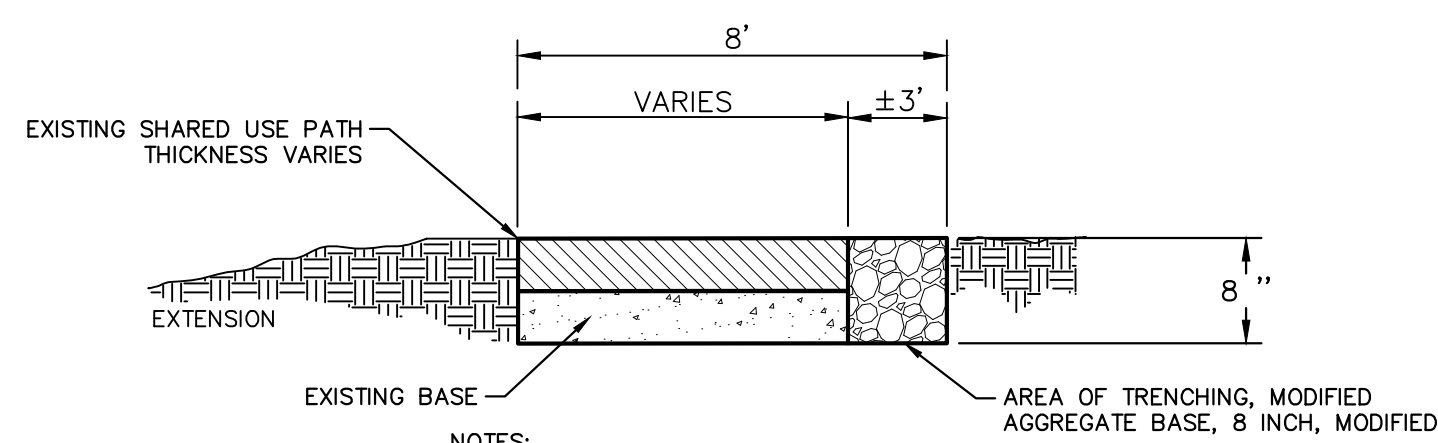
- NOTES:
- FOR PAVEMENT BASE AND SUBBASE THICKNESS, SEE TYPICAL PAVEMENT CROSS-SECTION.
 - DENSITY TESTING PER CITY OF ANN ARBOR SPECIFICATIONS.
 - TRENCH DETAILS SHOW TYPE OF BACKFILL AND SURFACE RESTORATION, ONLY.
 - ALL TRENCHING TO CONFORM TO ALL APPLICABLE M.I.O.S.H.A. STANDARDS.

TYPICAL EDGE DRAIN TRENCH SD-TD-10



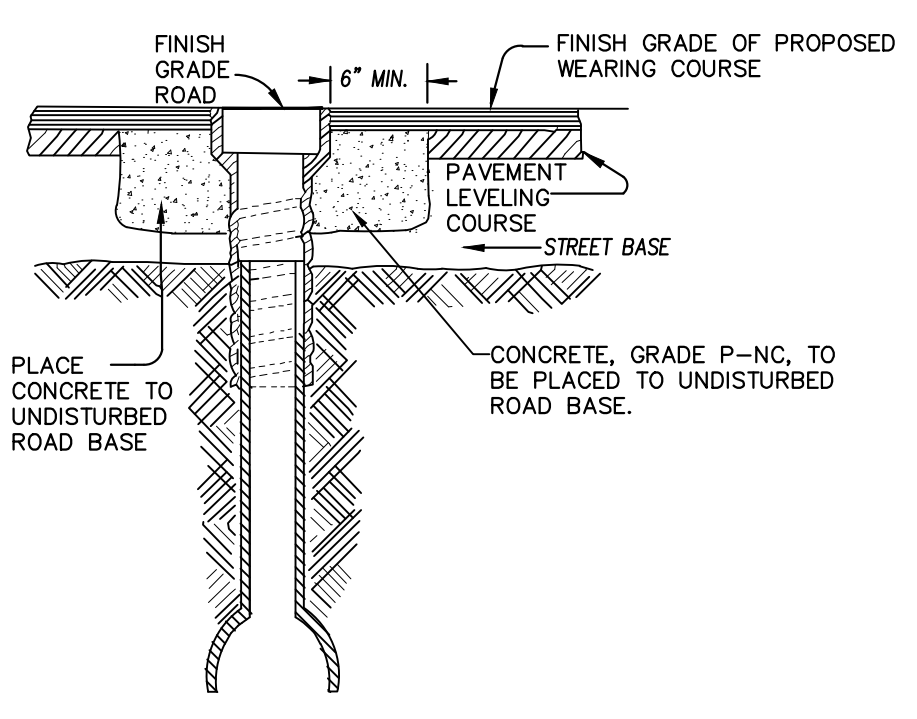
- NOTES:
- SAWCUT A VERTICAL EDGE 3' FROM BACK OF CURB.
 - REMOVE HMA SURFACE AND EXISTING HMA CURB.
 - EXCAVATE DOWN 1 FOOT FROM TOP OF EXISTING HMA SURFACE AT SAW CUT JOINT TO A FOOT BEHIND BACK OF CURB.
 - PLACE 6" OF 21AA AGGREGATE COMPACTED TO 98% MAXIMUM DENSITY
 - PERFORM DENSITY TESTING PER CITY OF ANN ARBOR SPECIFICATIONS.

ASPHALT CURB REMOVAL & REPLACE AND TRENCHING MODIFIED



- NOTES:
- PATH TRENCHING WIDTH MAY VARY. PERFORM TRENCHING CONSTRUCTION TO PROVIDE FOR A UNIFORMED 8 FOOT WIDE SHARED USE PATH SURFACE.
 - PERFORM TRENCHING EXCAVATION TO A DEPTH OF 8 INCHES FROM THE TOP OF EXISTING HMA PATH.
 - PLACE 8 INCHES OF 21AA AGGREGATE COMPACTED TO 98% MAXIMUM DENSITY.
 - PERFORM DENSITY TESTING PER CITY OF ANN ARBOR SPECIFICATIONS.

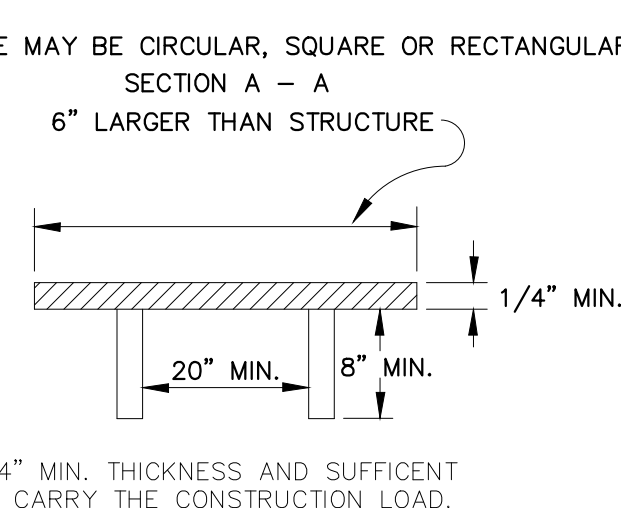
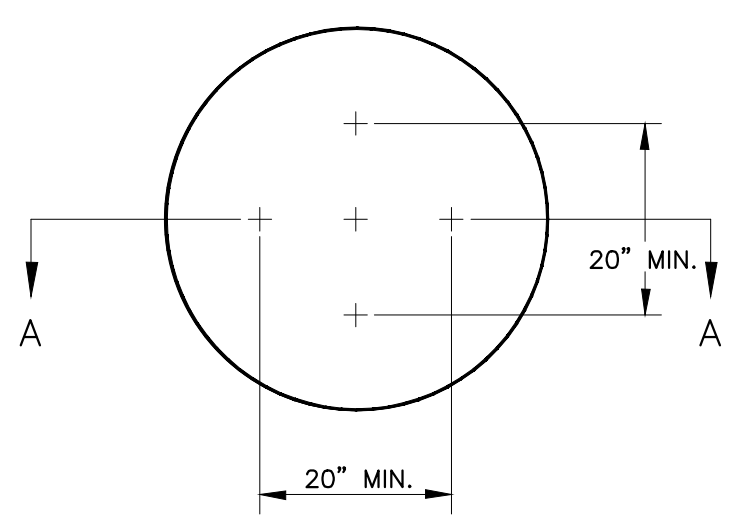
SHARED USE PATH TRENCHING



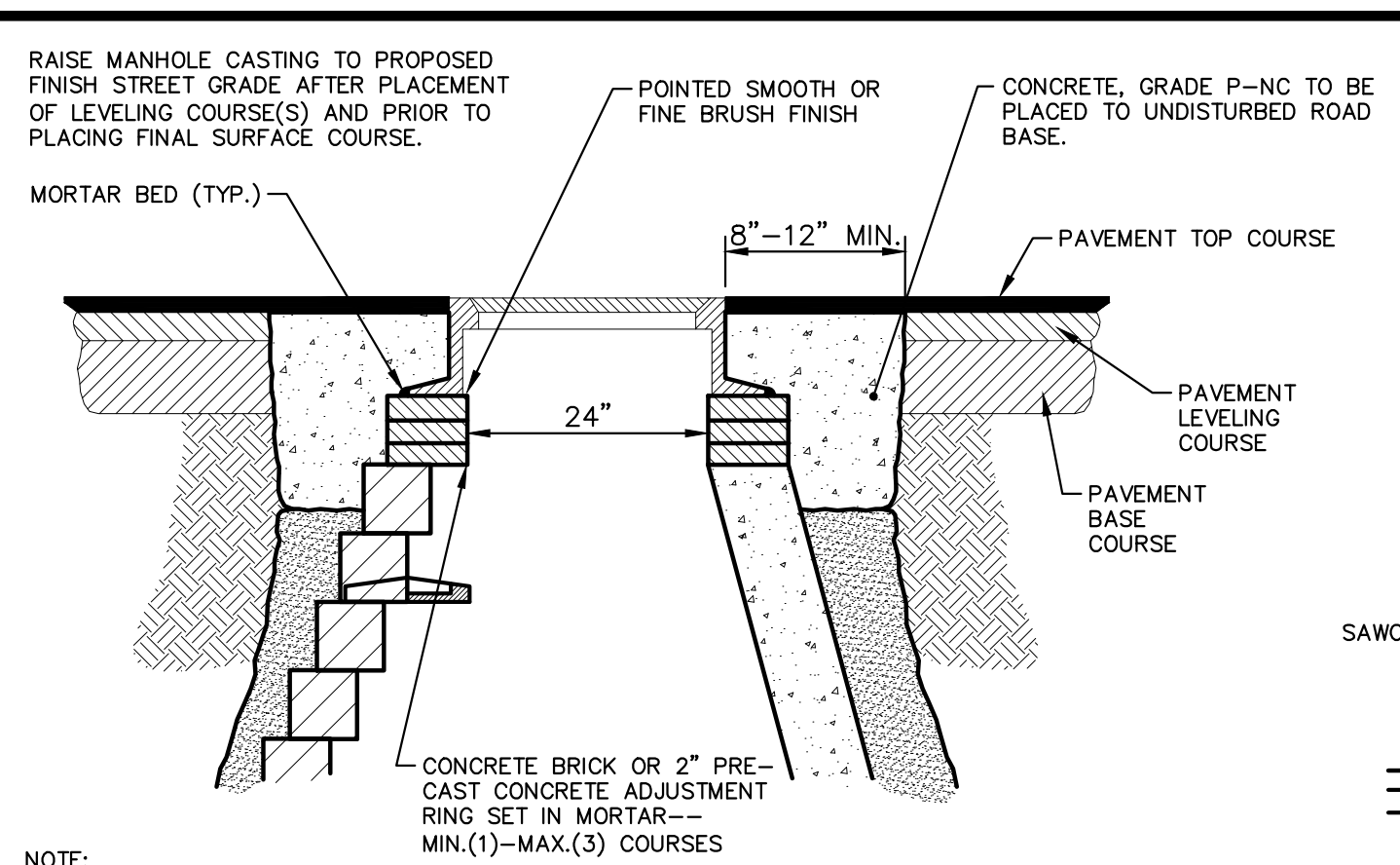
NOTE: RAISE CASTING TO PROPOSED FINISH STREET GRADE AFTER PLACEMENT OF LEVELING COURSE(S) AND PRIOR TO PLACING FINAL SURFACE COURSE

CITY OF ANN ARBOR STANDARD SD-GU-7 APPLIES TO: SEE PLANS FOR LOCATIONS

WATER VALVE BOX ADJUSTMENT

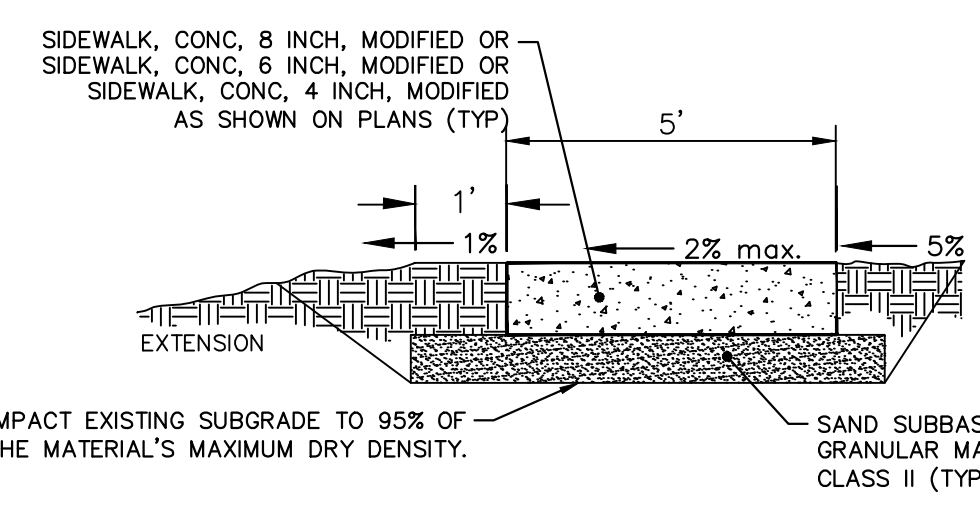


STRUCTURE PLATE

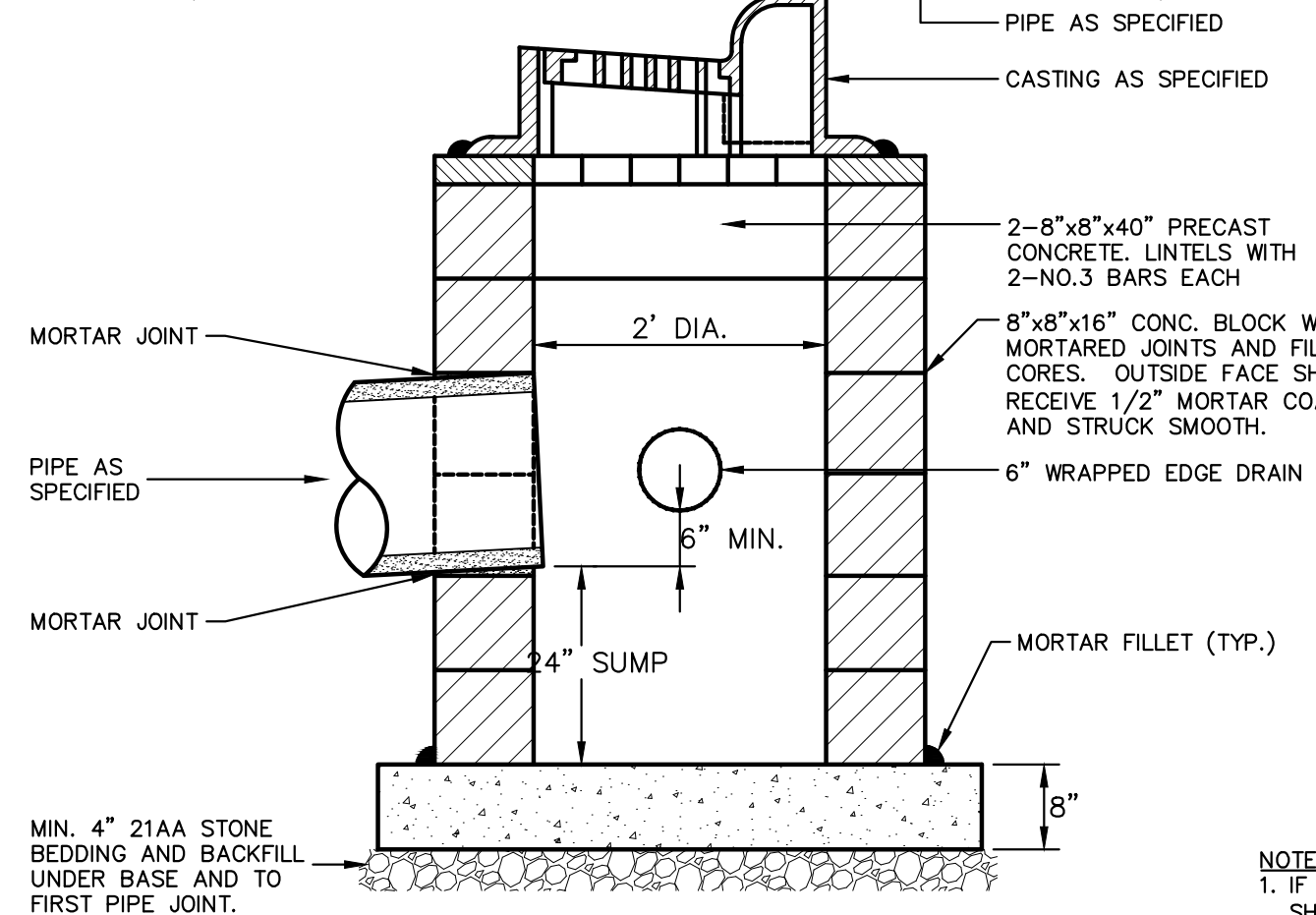
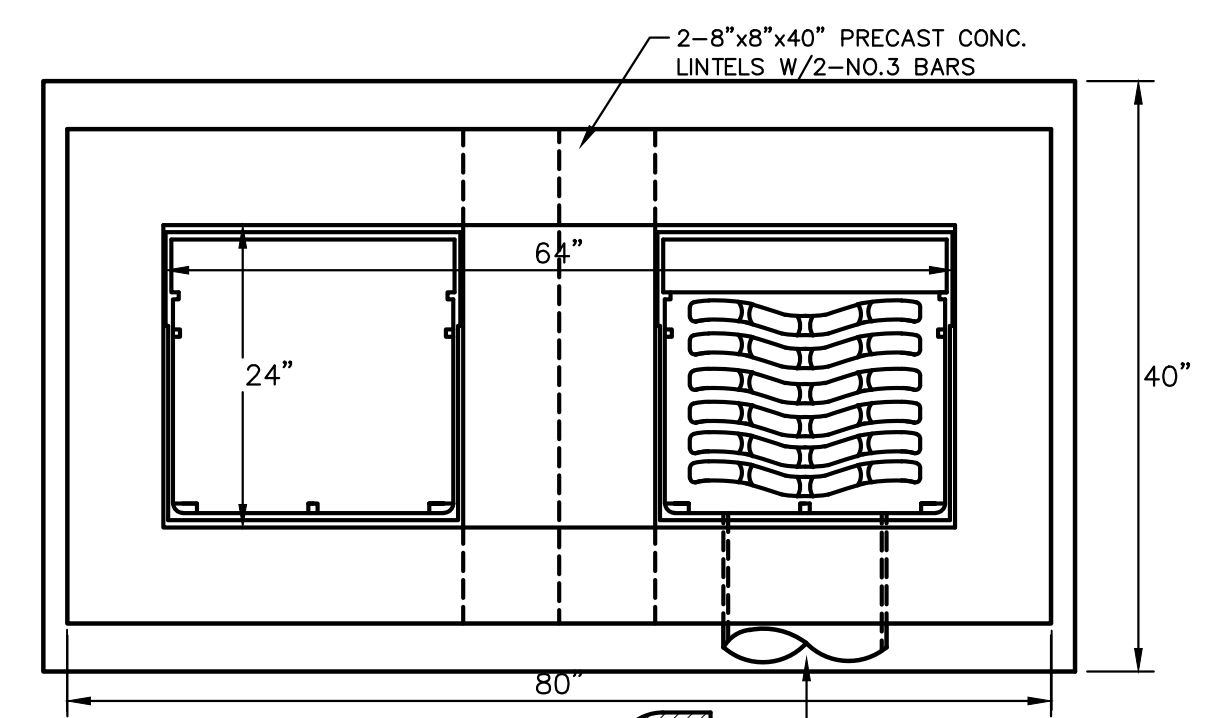


NOTE: IF MANHOLE WILL BE PLACED IN GRAVEL ROAD, CASTING TO BE SET 6" TO 8" BELOW ROADWAY GRADE. ALL CONSTRUCTION METHODS SHALL REMAIN AS SHOWN ABOVE.

MANHOLE CASTING ADJUSTMENT SD-GU-6

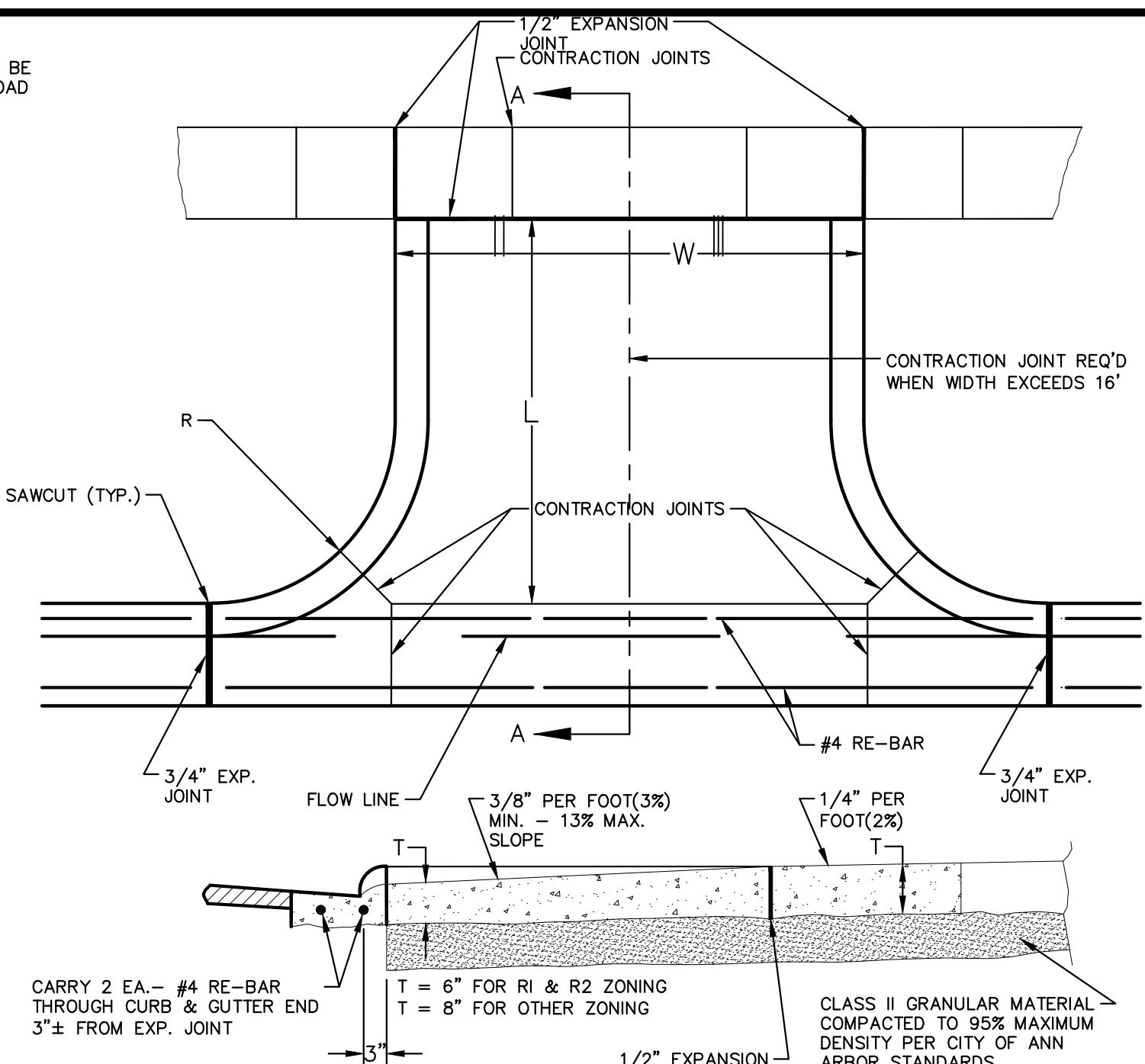


TYPICAL 5 FT SIDEWALK SECTION



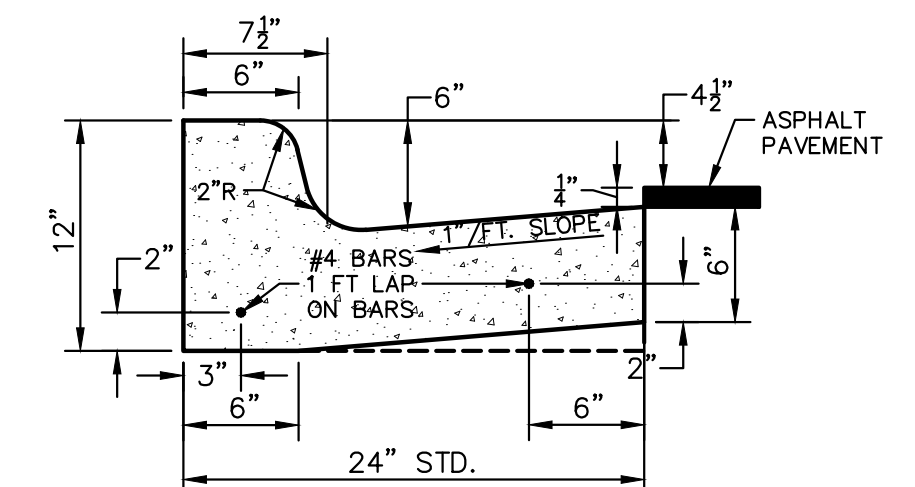
- NOTES:
- FRONT EDGE OF INLET CASTINGS SHALL BE FLUSH WITH THE FRONT EDGE OF GUTTER (EDGE-OF-METAL)
 - 2' SUMP REQUIRED ON ALL DRAINAGE STRUCTURES

DOUBLE INLET STRUCTURE SD-S-11

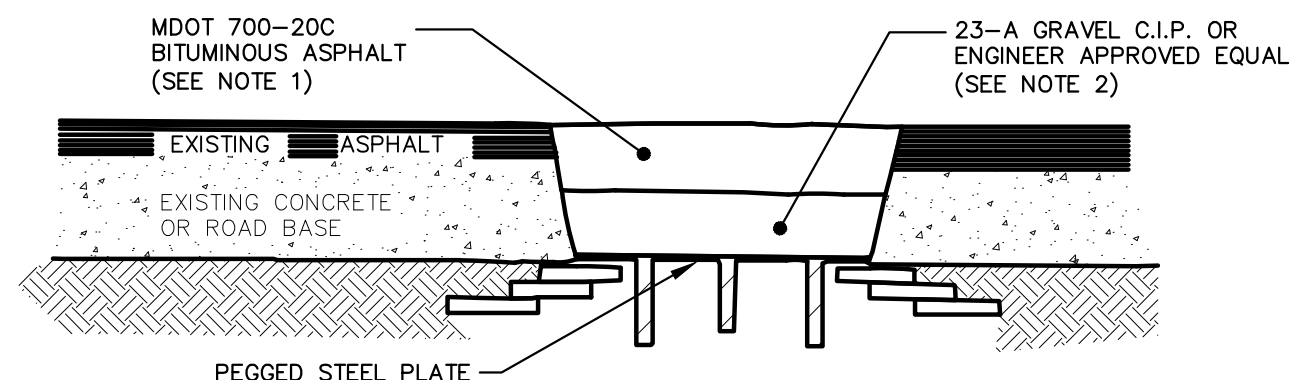


- NOTE:
- DRIVE APPROACH TO BE CLASS 'A' CONCRETE.
 - R(RADIUS) AND W(DRIVE WIDTH) AS REQUIRED FOR ZONING BY CITY CODE
 - IF GUTTER IS OVERLAPPED, GUTTER OF THE APPROACH SHALL BE AT SAME ELEVATION AS EXISTING GUTTER AND ASPHALT WEDGE SHALL BE PLACED IN THE APPROACH.

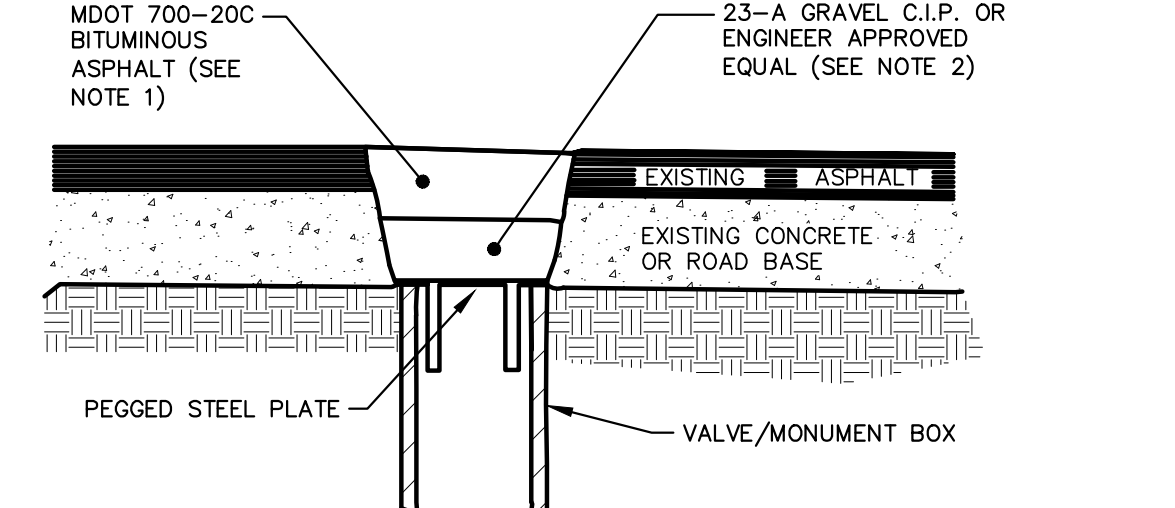
TYPE 'M' DRIVE APPROACH SD-R-6



BARRIER CURB AND GUTTER SD-R-1



MANHOLE LOWERING DETAIL



VALVE BOX/MONUMENT BOX LOWERING DETAIL

- NOTES:
- IF TRAFFIC IS TO BE MAINTAINED ON THE ROADWAY BEFORE OR AFTER THE COLD MILLING OPERATION, THE STRUCTURE SHALL BE LOWERED TO THE EXTENT THAT A MINIMUM OF THREE(3) INCHES ASPHALT MATERIAL MDOT 700-20C, OR ENGINEER APPROVED EQUAL, REMAINS -TO SUPPORT TRAFFIC.
 - IF THE ROADWAY BEING MILLED IS CLOSED TO TRAFFIC, THE STRUCTURE SHALL BE LOWERED SUCH THAT THE STEEL PLATE IS A MINIMUM OF FOUR(4) INCHES BELOW THE PROPOSED ROAD GRADE AND THE RESULTING VOID SHALL BE FILLED WITH COMPACTED 23-A GRAVEL OR ENGINEER APPROVED EQUAL.
 - WHERE A MONUMENT IS TO BE LOWERED, THE CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF 48 HOURS WRITTEN NOTICE SO THAT THE MONUMENT CAN BE PROPERLY WITNESSED OR PROTECTED. FAILURE TO DO SO SHALL RESULT IN THE ENGINEER REPLACING SAID MONUMENT AT THE CONTRACTORS EXPENSE.

MANHOLE & VALVE/MONUMENT BOX LOWERING

811 Know what's below. Call before you dig.

01	ADDENDUM 3	REV.
03/25/21	DATE	
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DAD		

DESCRIPTION

STREET RESURFACING PROJECT - 2021

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

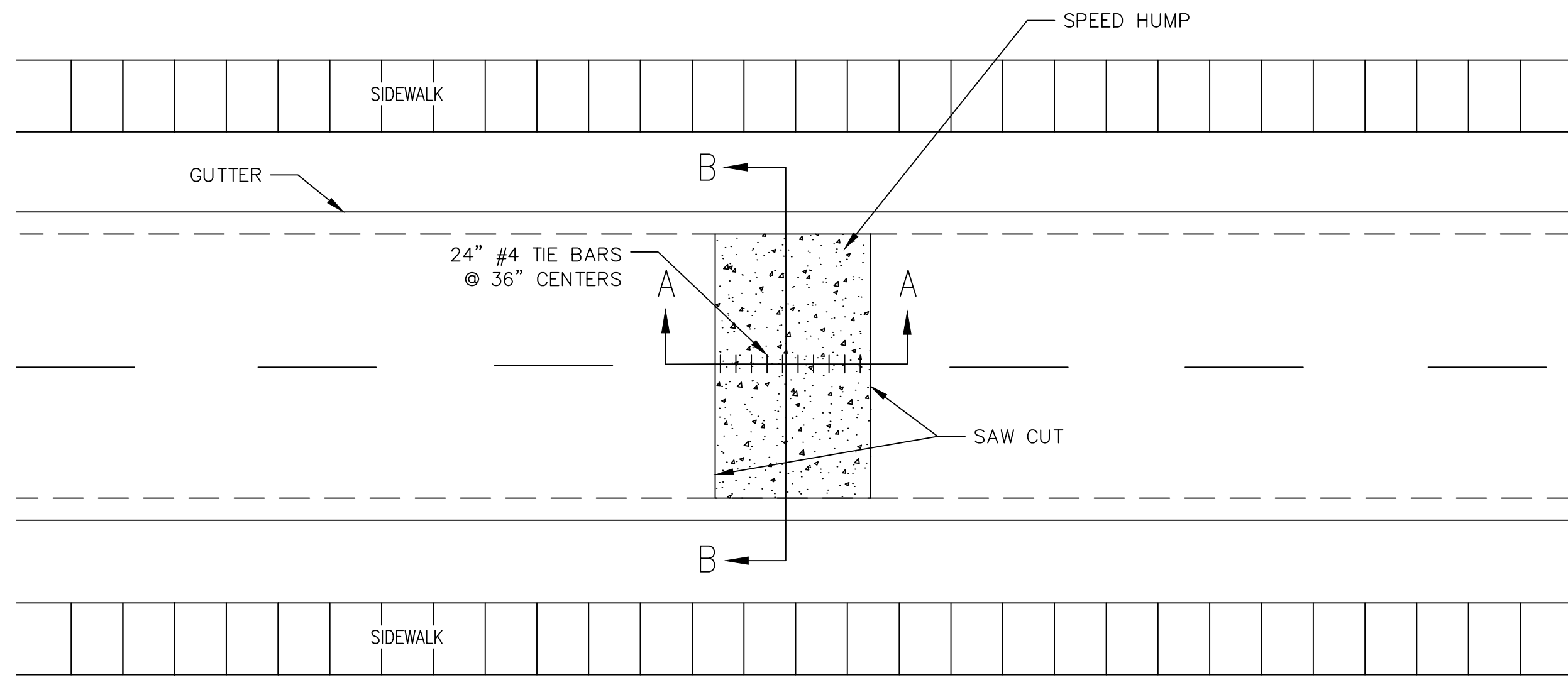
CITY OF ANN ARBOR PUBLIC SERVICES
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ANN ARBOR MI 48107-8647
www.a3gov.org

SCALE: NTS

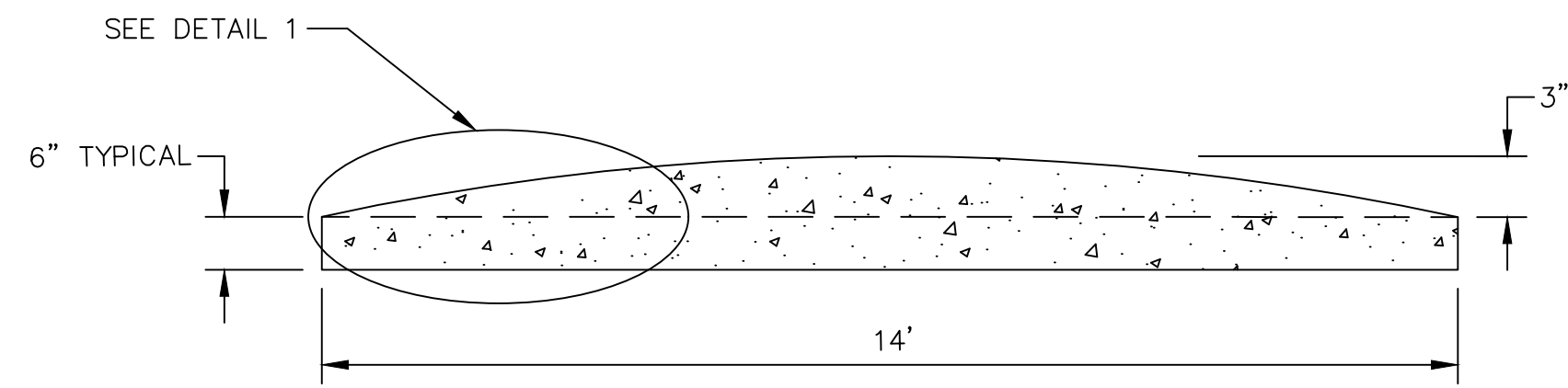
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SHEET No. 4 OF 51

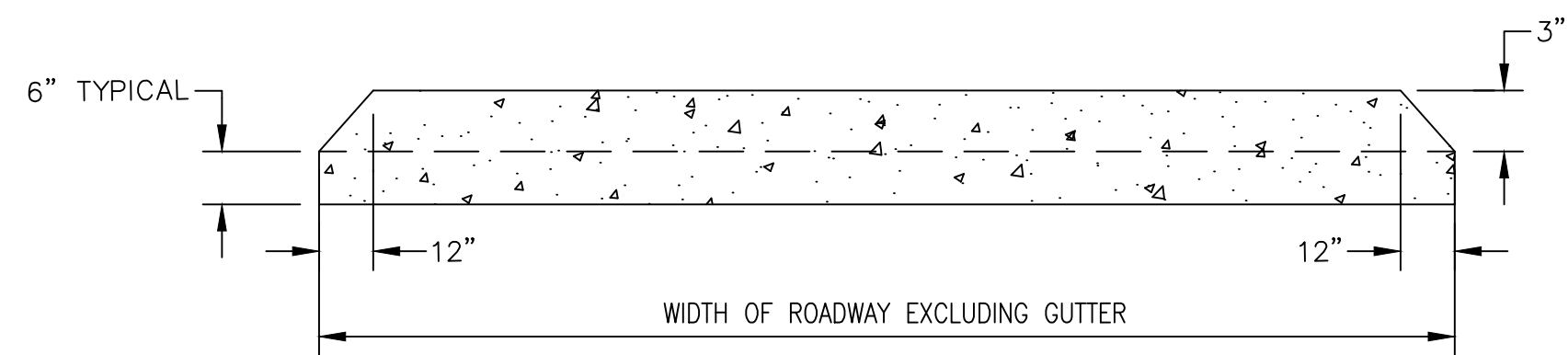
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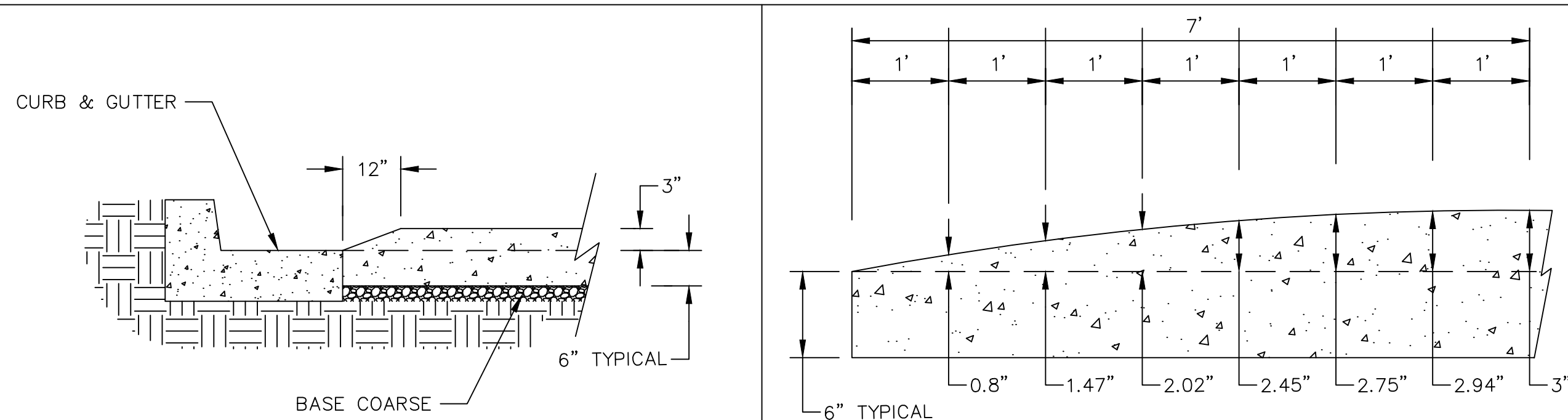
PLAN VIEW



SECTION AA



SECTION BB

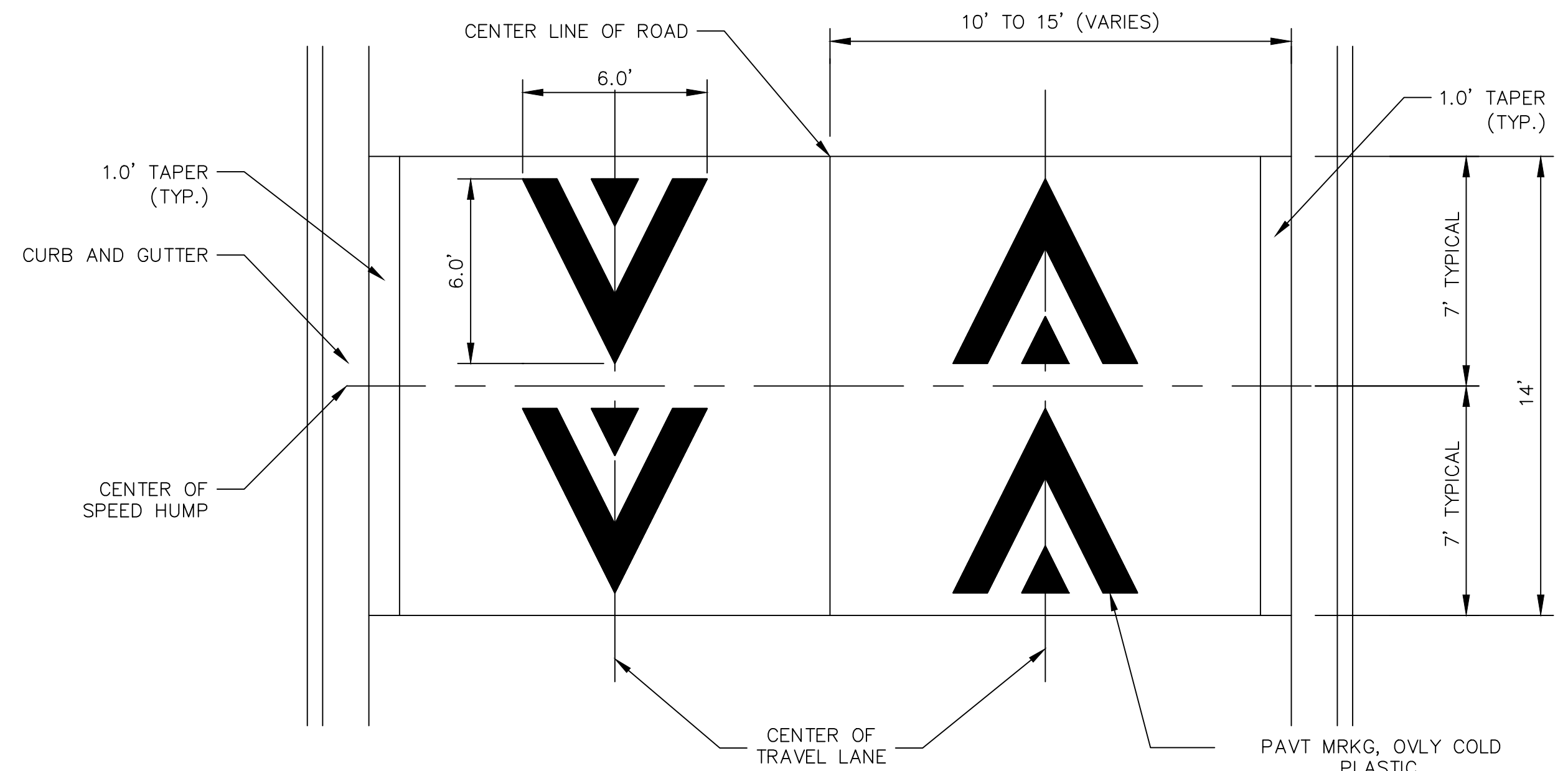


CURB DETAIL

DETAIL 1

CONCRETE SPEED HUMP DETAIL

SCALE: NOT TO SCALE



PAVEMENT MARKING DETAIL

SCALE: NOT TO SCALE

GENERAL NOTES

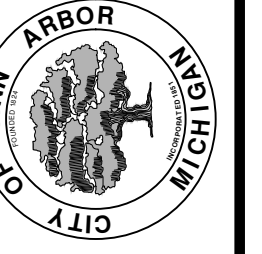
1. RAISED INTERSECTIONS SHALL FOLLOW THE SAME TAPER REQUIREMENT AS THE SPEED HUMPS DETAILED HEREIN.
2. PAYMENT FOR PAVEMENT MARKINGS FOR SPEED HUMPS AND RAISED INTERSECTIONS SHALL BE INCLUDED IN THE RESPECTIVE BID ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.



Know what's below. Call Before you dig.

REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	03/25/21	ADDENDUM 3	JG/CE/JS	DAD

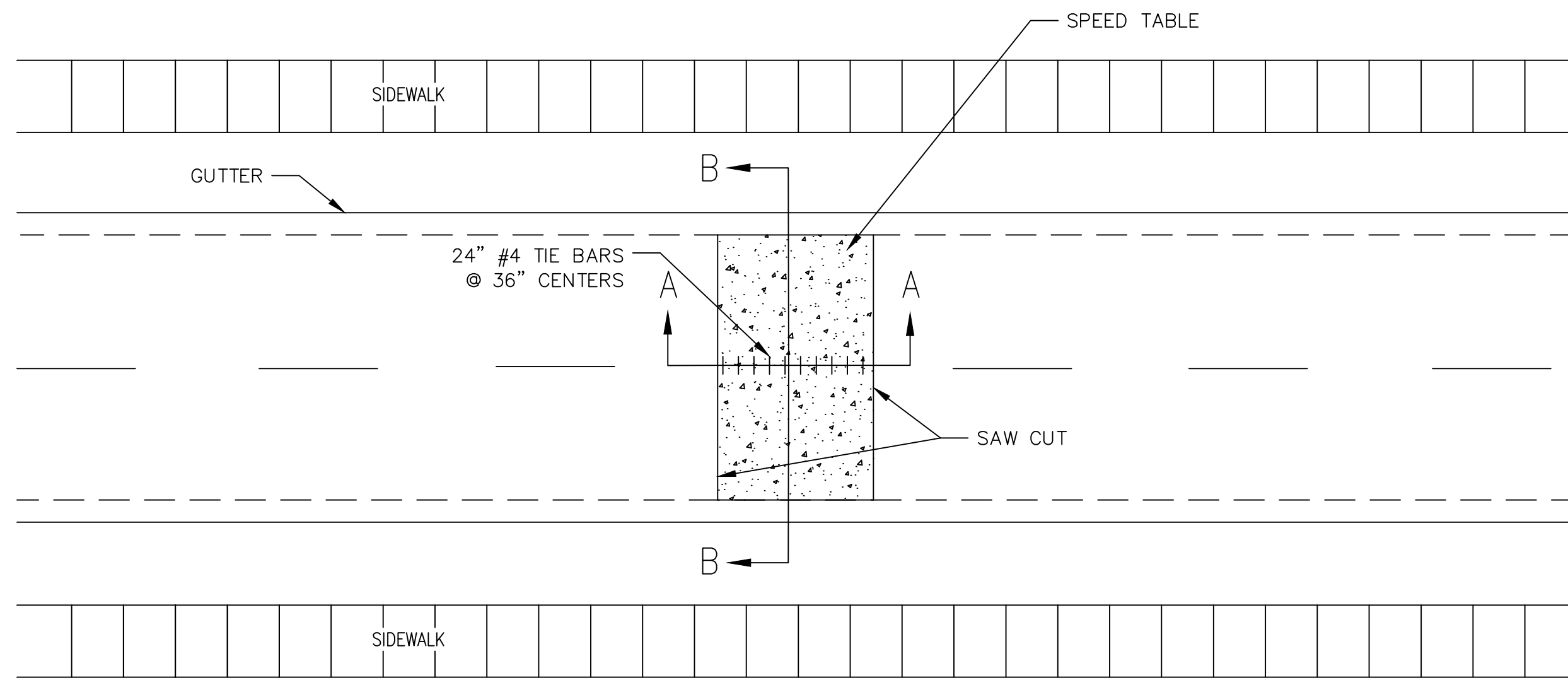
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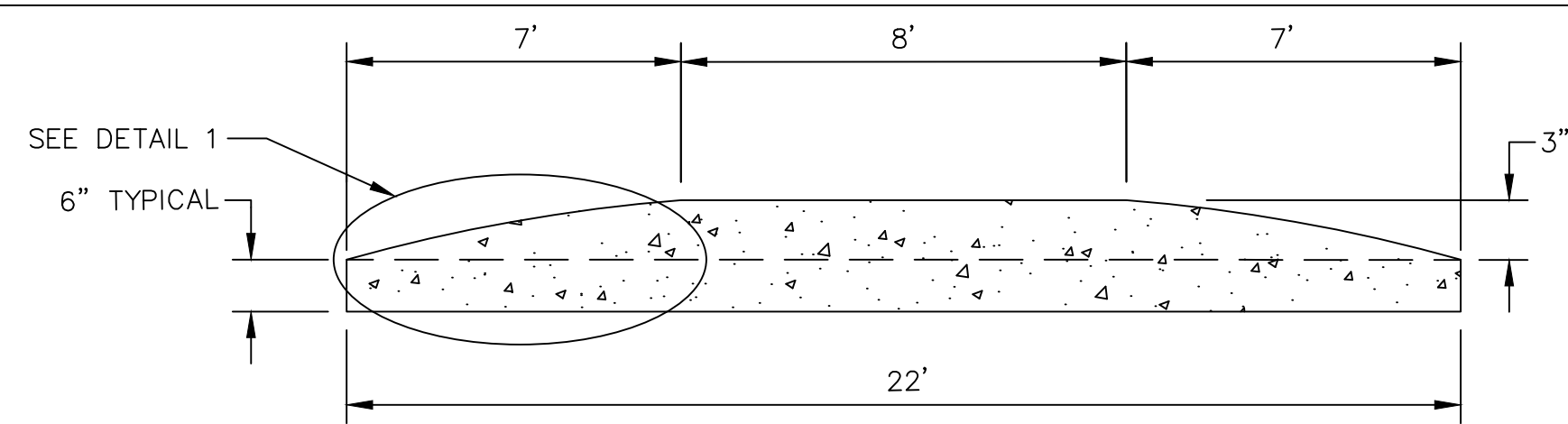
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2021
TRAFFIC CALMING DETAIL - CONCRETE SPEED HUMP DETAIL

SCALE PLAN: NTS
DRAWING No. 2021-004-5

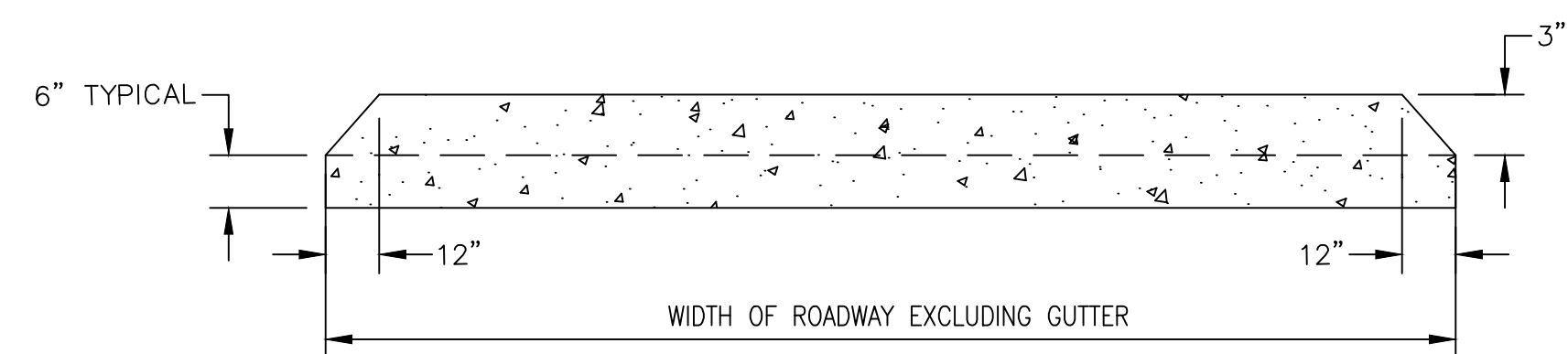
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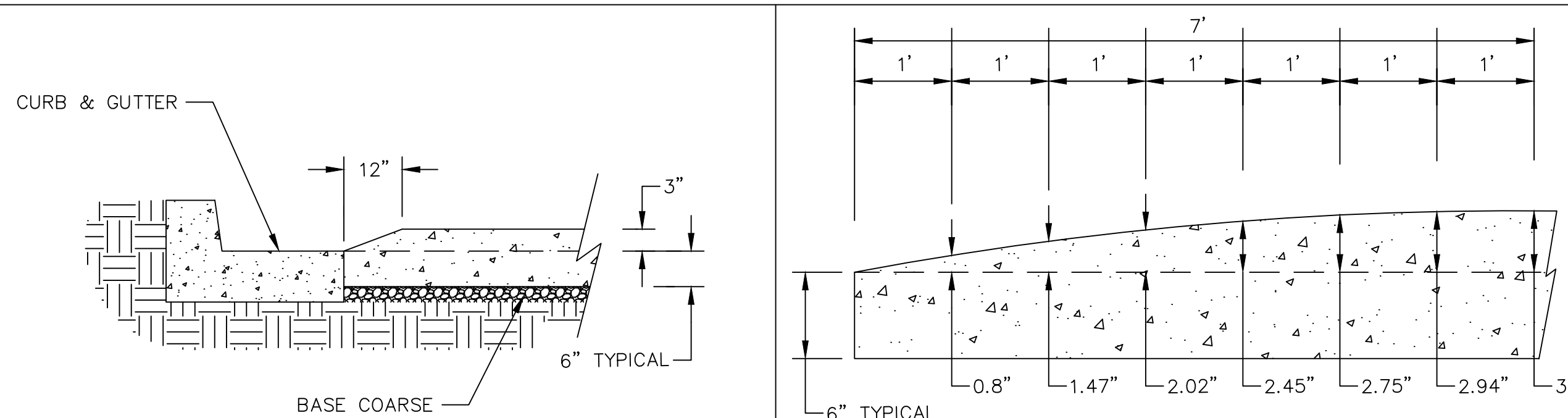
PLAN VIEW



SECTION AA



SECTION BB

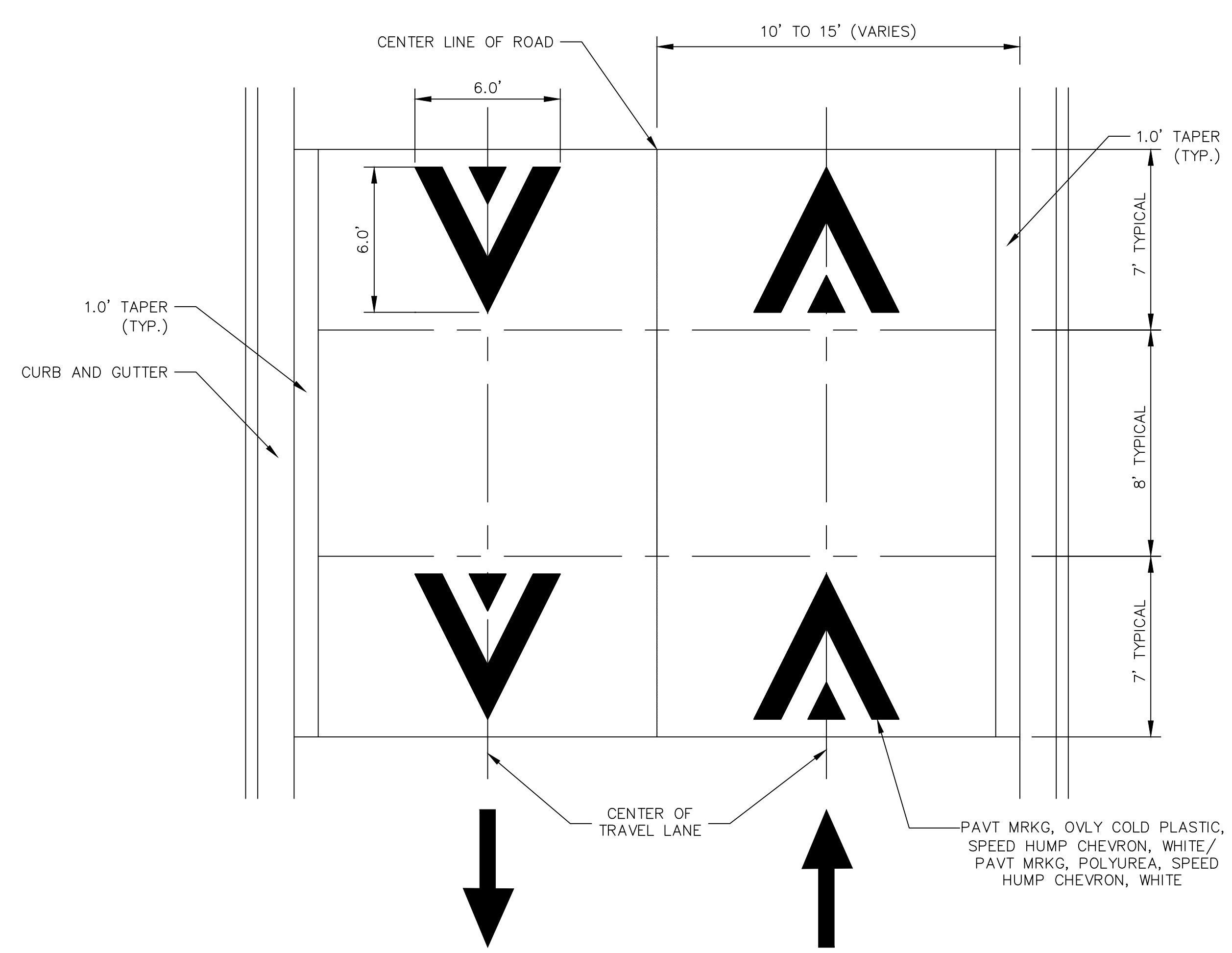


CURB DETAIL

DETAIL 1

CONCRETE SPEED TABLE DETAIL

SCALE: NOT TO SCALE



PAVEMENT MARKING DETAIL

SCALE: NOT TO SCALE

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.



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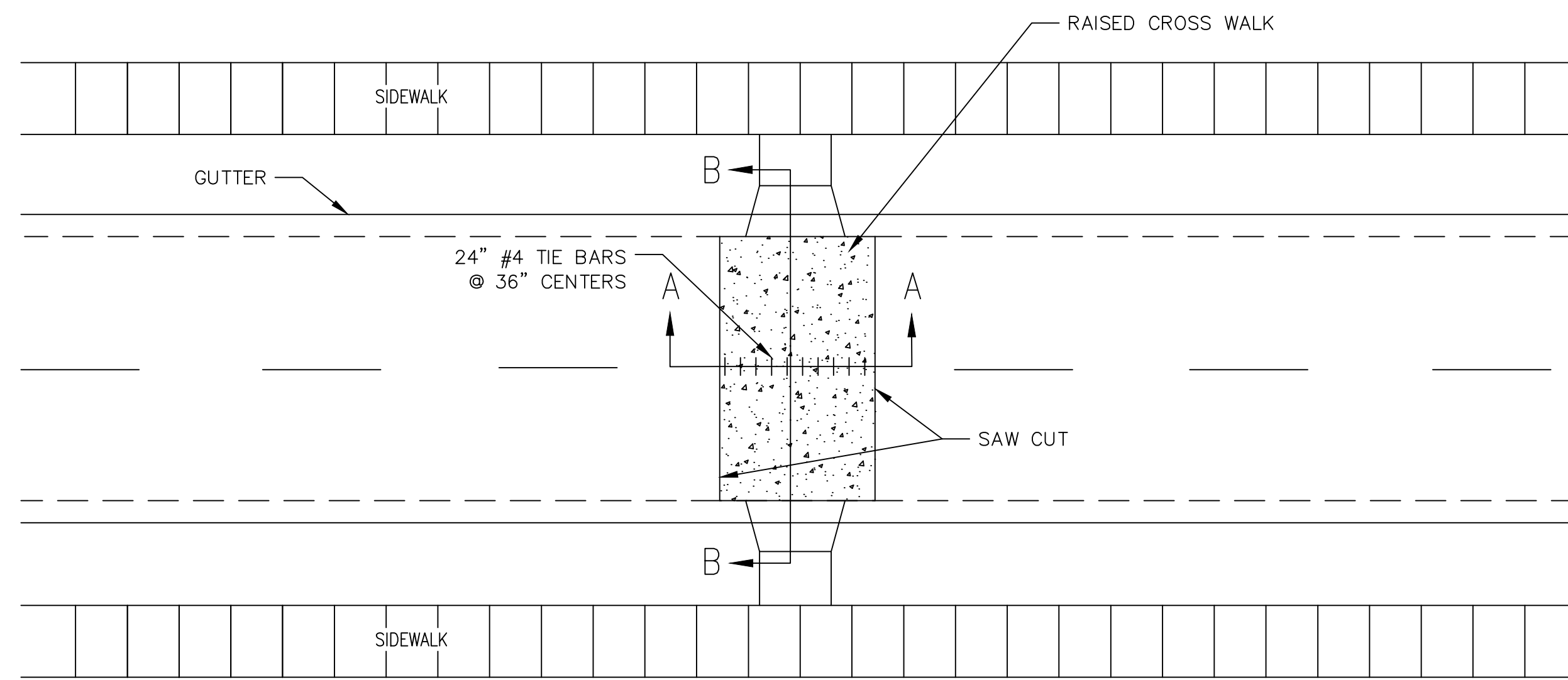
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2021
TRAFFIC CALMING DETAIL - CONCRETE SPEED TABLE DETAIL

SCALE PLAN: NTS
DRAWING No. 2021-004-6

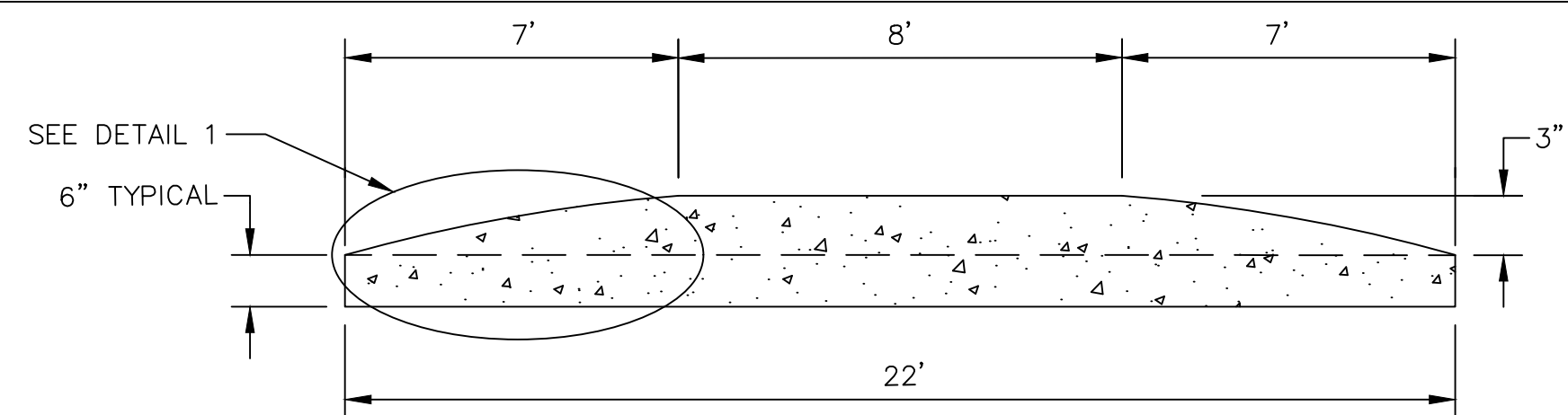
SHEET No.

REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	03/25/21	JAC/CE/GS		

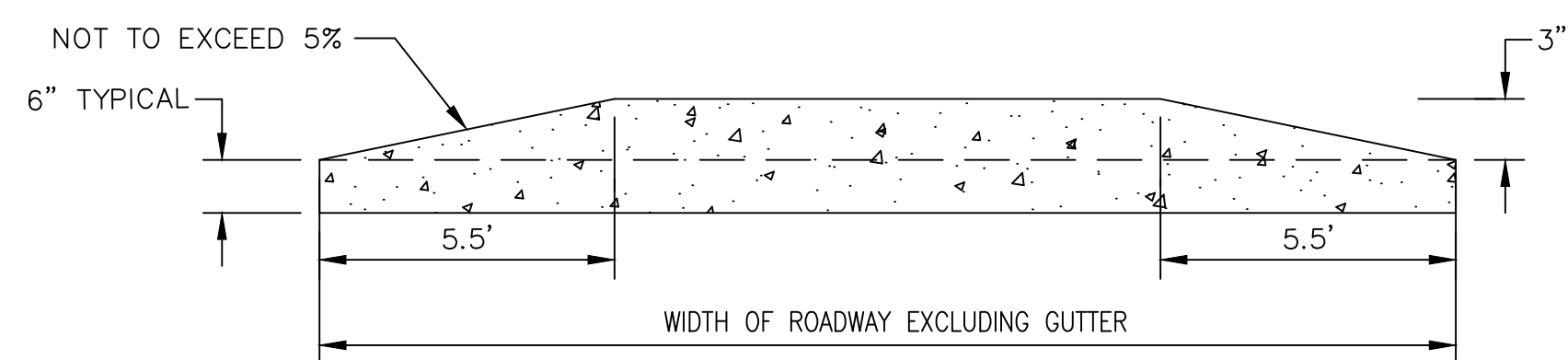
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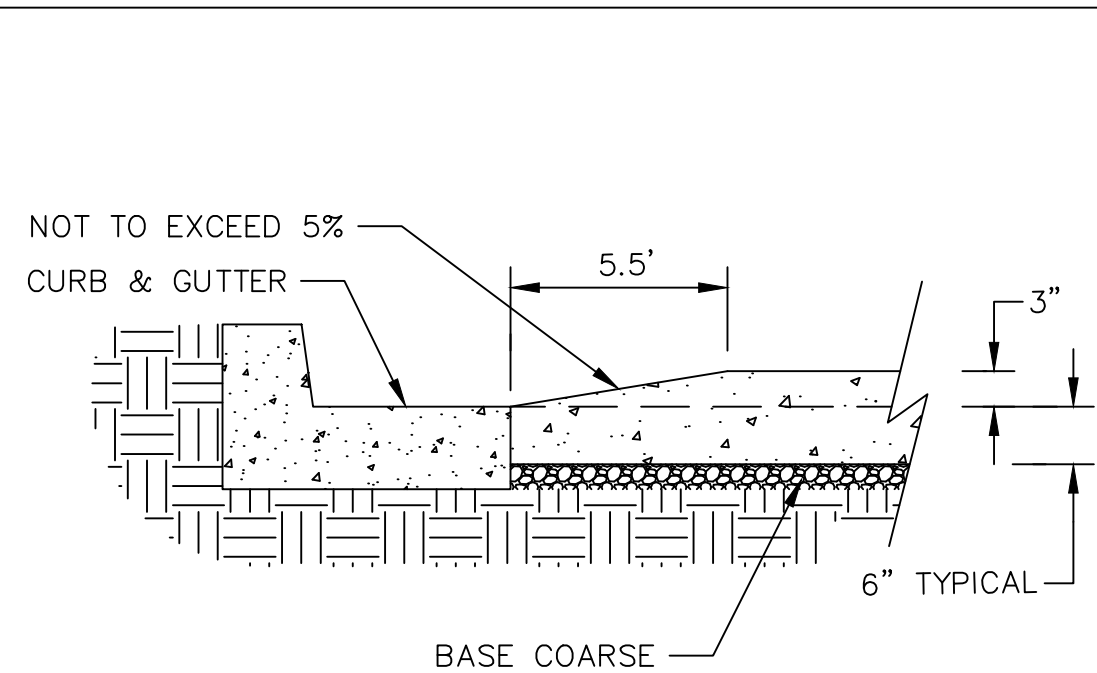
PLAN VIEW



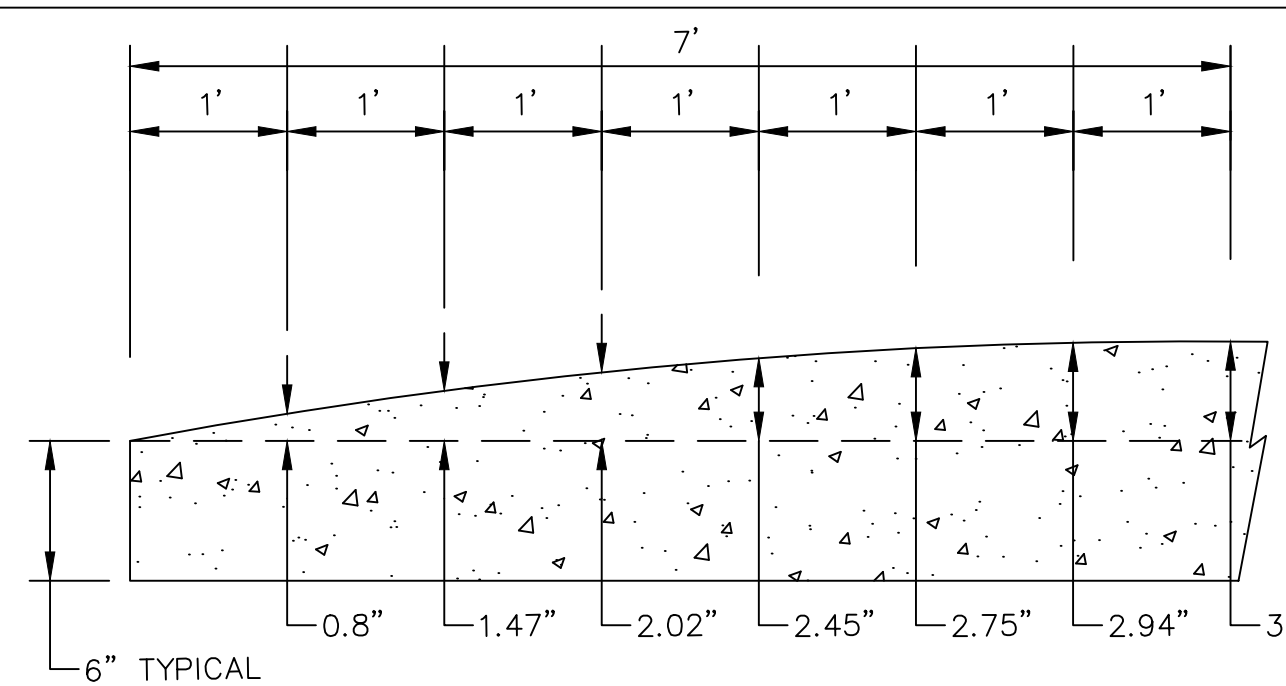
SECTION AA



SECTION BB



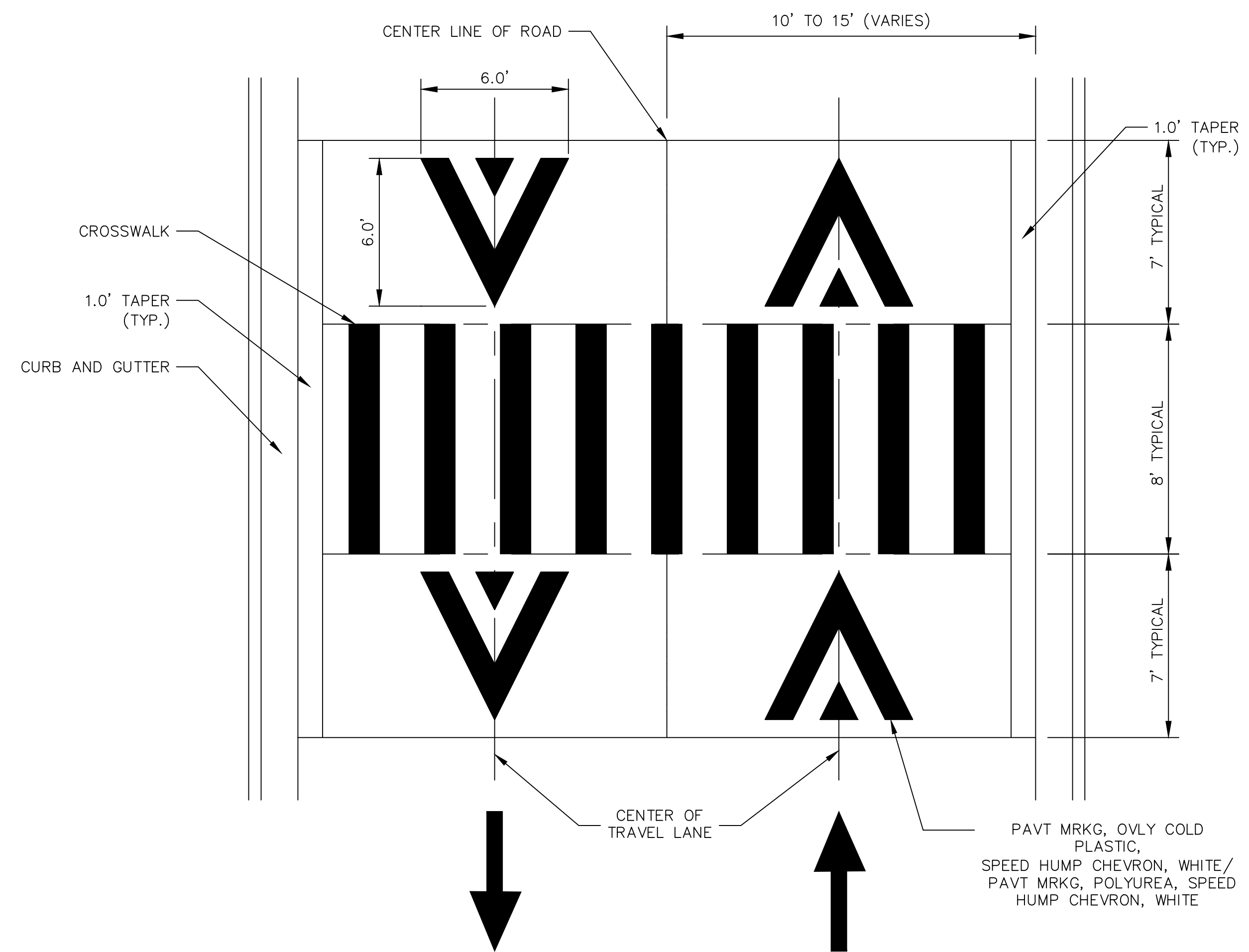
CURB DETAIL



DETAIL 1

CONCRETE RAISE CROSS WALK DETAIL

SCALE: NOT TO SCALE



PAVEMENT MARKING DETAIL

SCALE: NOT TO SCALE

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.



REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	03/25/21	JAC/CE/OS		
		ADDENDUM 3		

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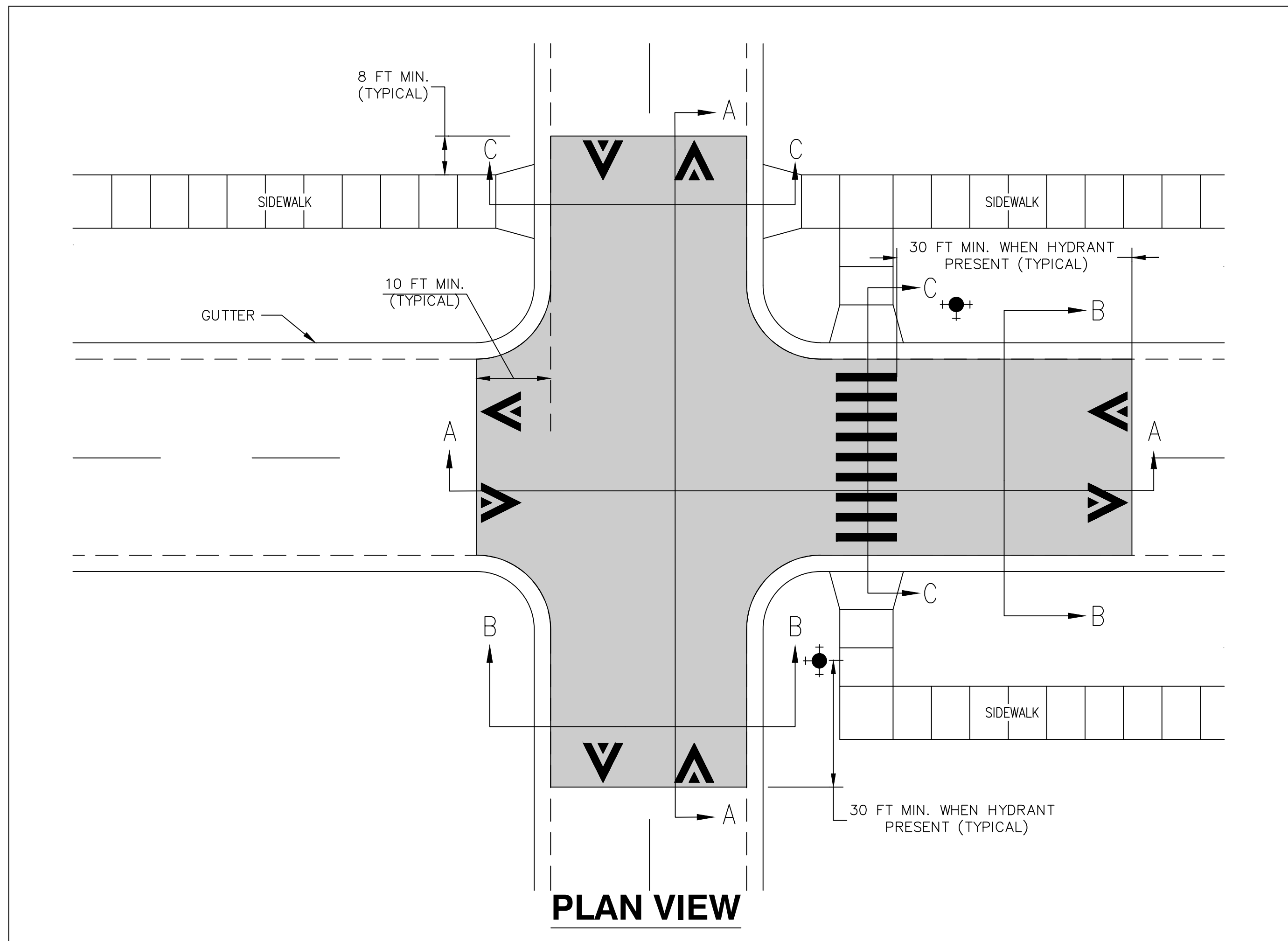


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2021
TRAFFIC CALMING DETAIL - CONCRETE RAISE CROSS WALK DETAIL

SCALE PLAN: NTS
DRAWING No. 2021-004-7

SHEET No.

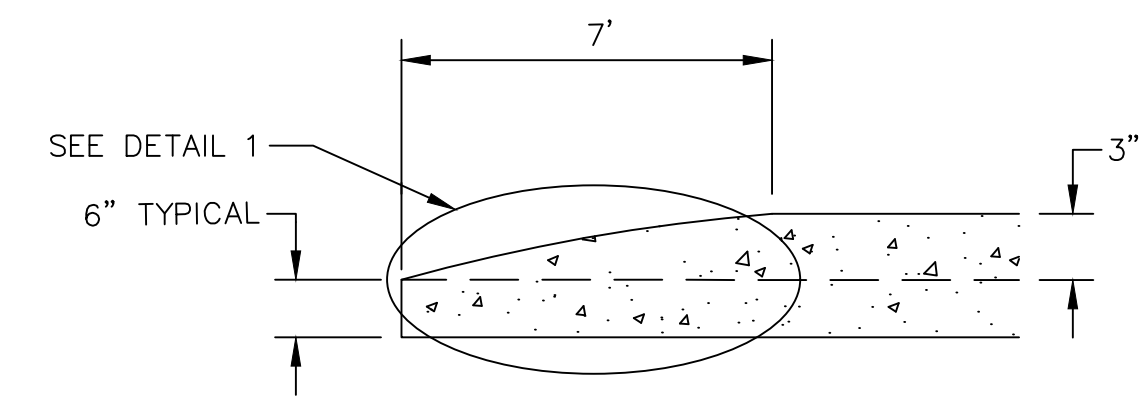
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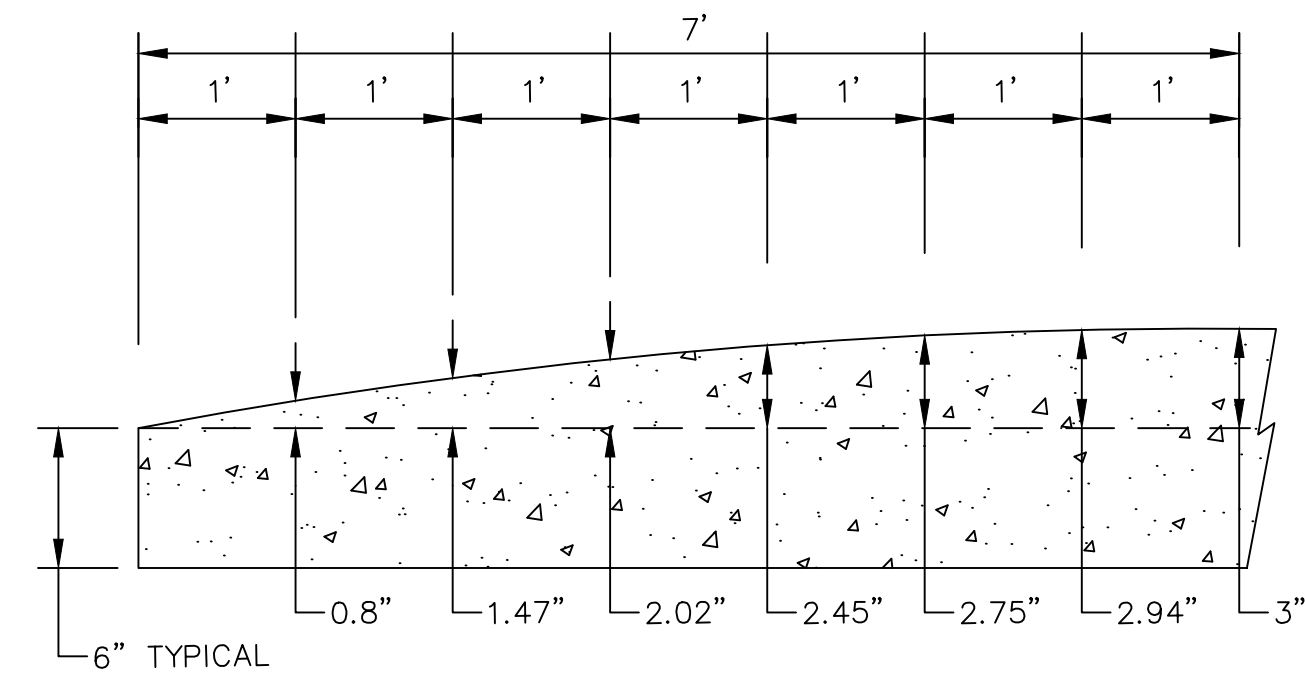
PLAN VIEW

GENERAL NOTES

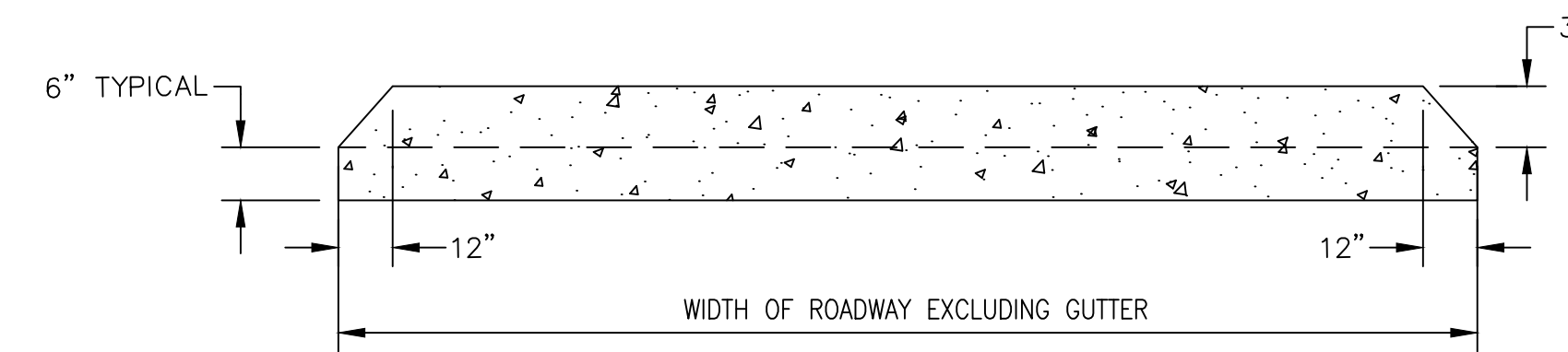
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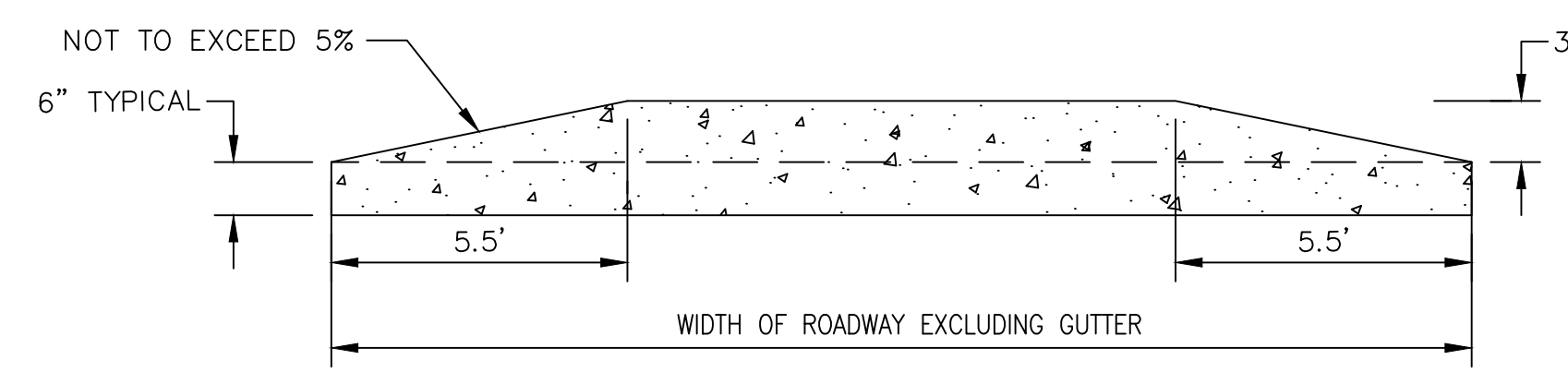
SECTION AA



DETAIL 1



SECTION BB



SECTION CC

CONCRETE RAISE INTERSECTION DETAIL

SCALE: NOT TO SCALE



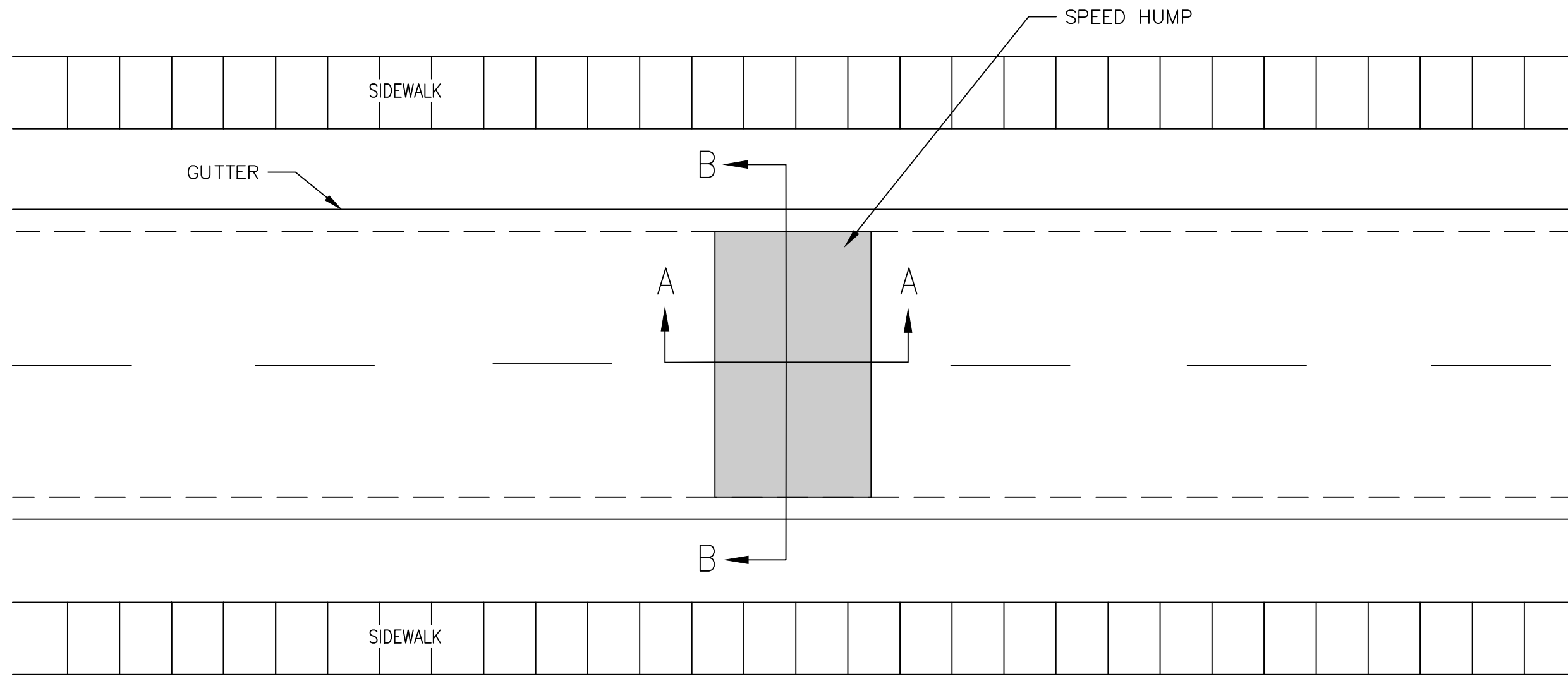
01	ADDENDUM 3	DATE	03/25/21	AC/CE/OS	DRAWN	DAD	CHECKED

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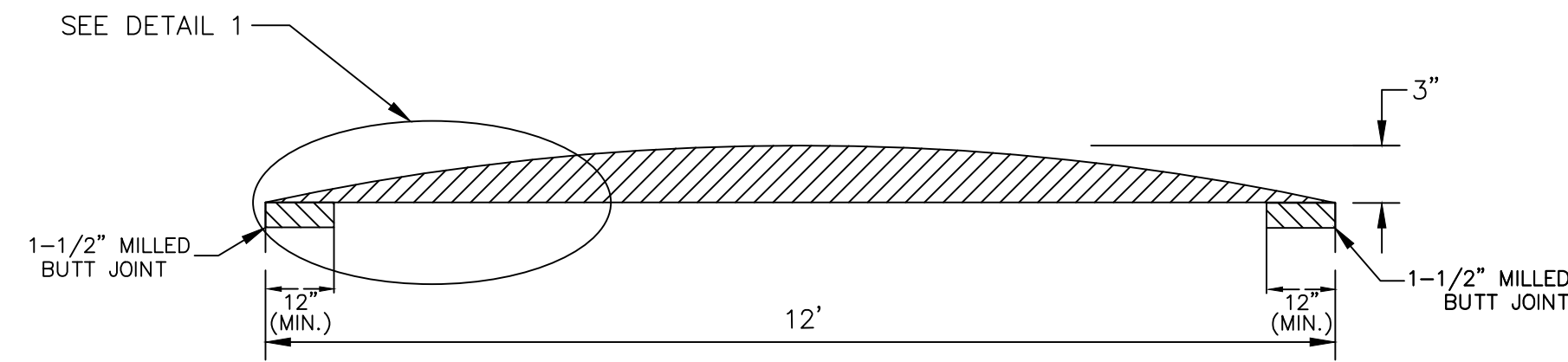
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
 STREET RESURFACING PROJECT - 2021
 TRAFFIC CALMING DETAIL - CONCRETE RAISE INTERSECTION DETAIL

SCALE PLAN: NTS
 DRAWING No. 2021-004-8
 SHEET No.

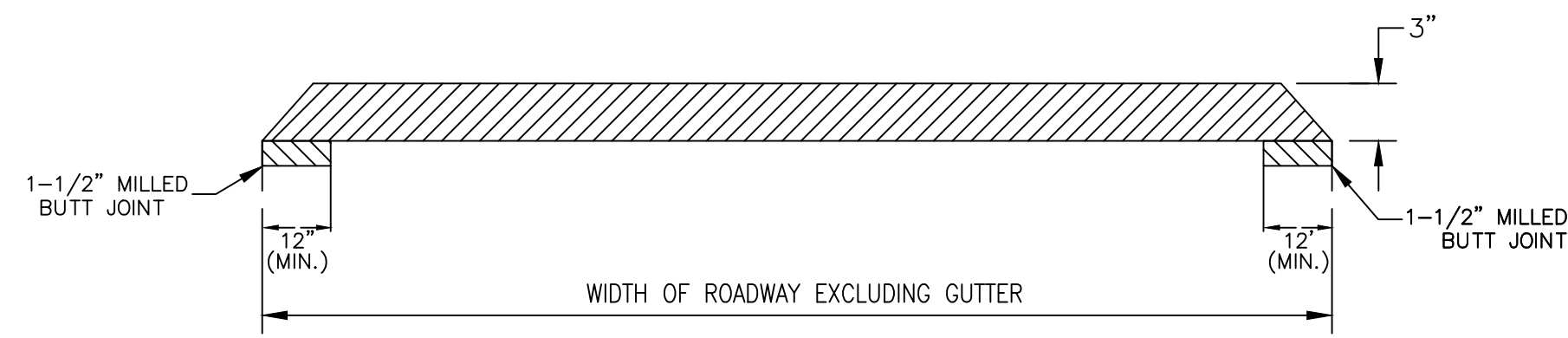
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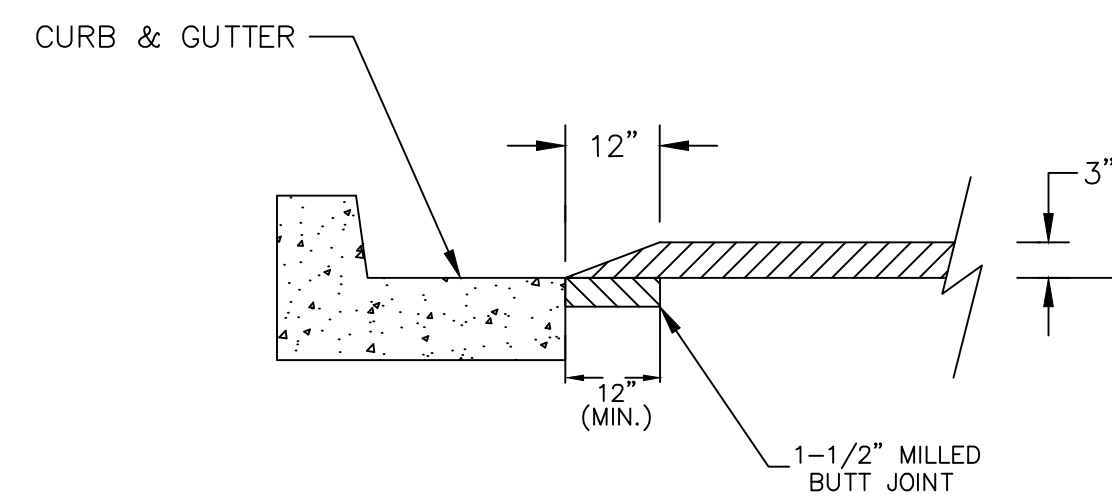
PLAN VIEW



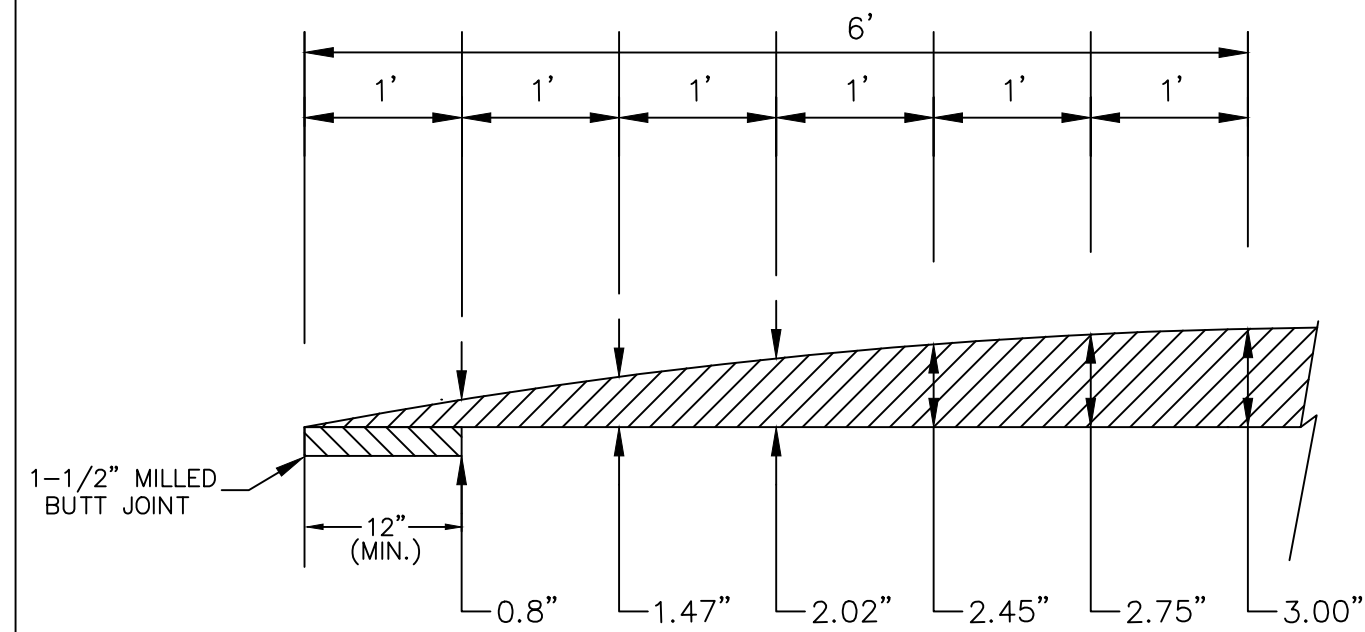
SECTION AA



SECTION BB



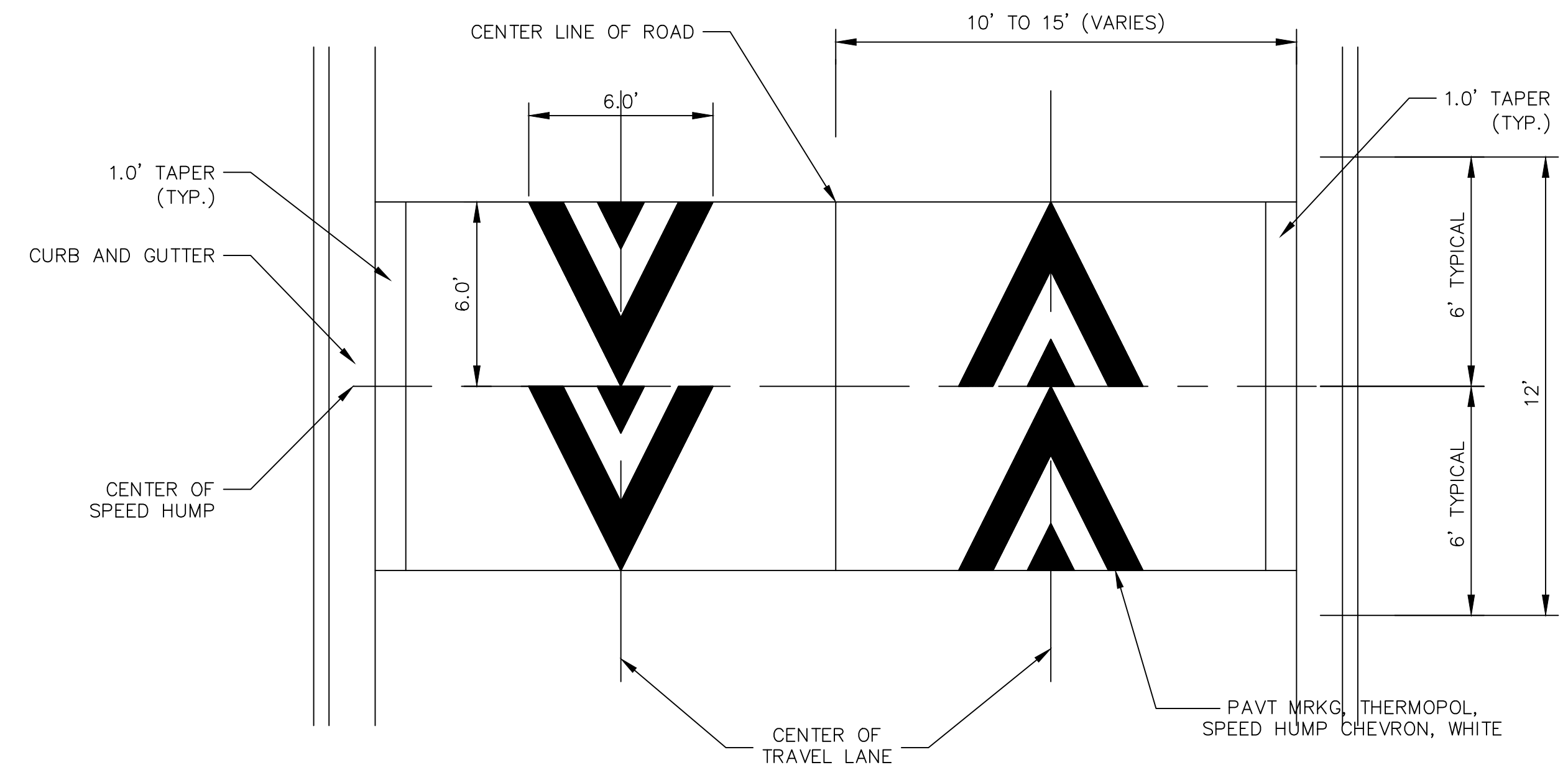
CURB DETAIL



DETAIL 1

HMA SPEED HUMP DETAIL

SCALE: NOT TO SCALE



PAVEMENT MARKING DETAIL

SCALE: NOT TO SCALE

GENERAL NOTES

1. RAISED INTERSECTIONS SHALL FOLLOW THE SAME TAPER REQUIREMENT AS THE SPEED HUMPS DETAILED HEREIN.
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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
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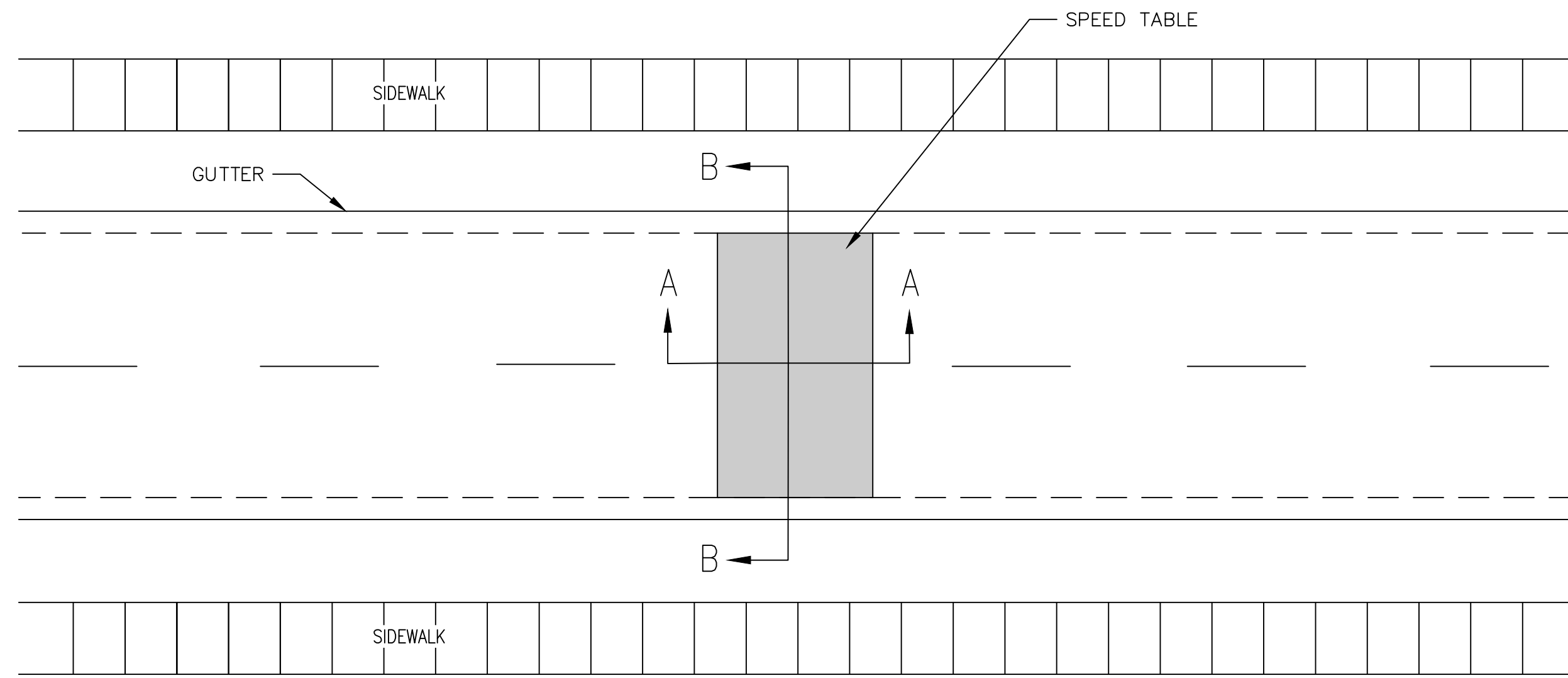
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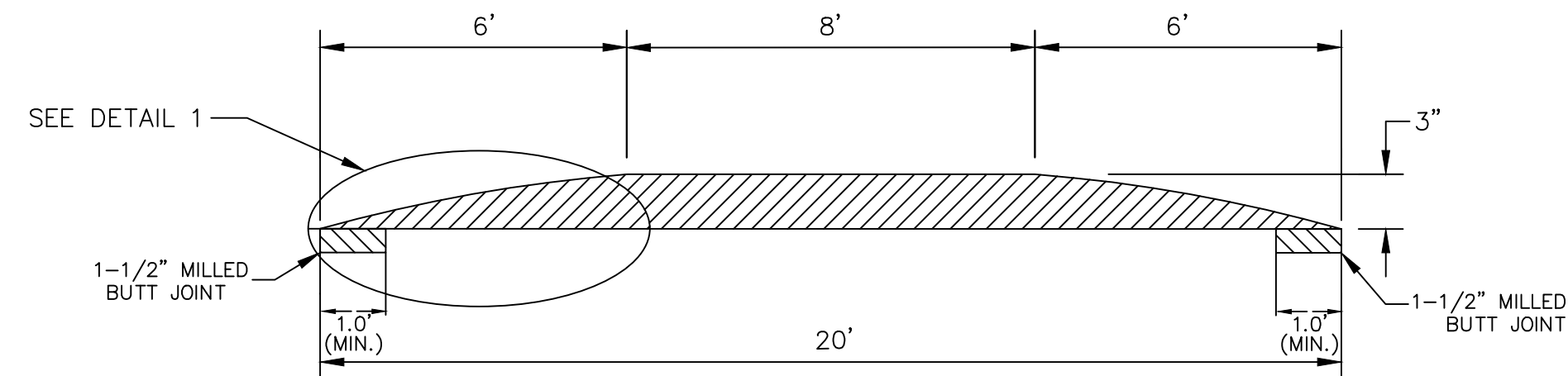
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2021
TRAFFIC CALMING DETAIL - HMA SPEED HUMP DETAIL

SCALE PLAN: NTS
DRAWING No. 2021-004-9

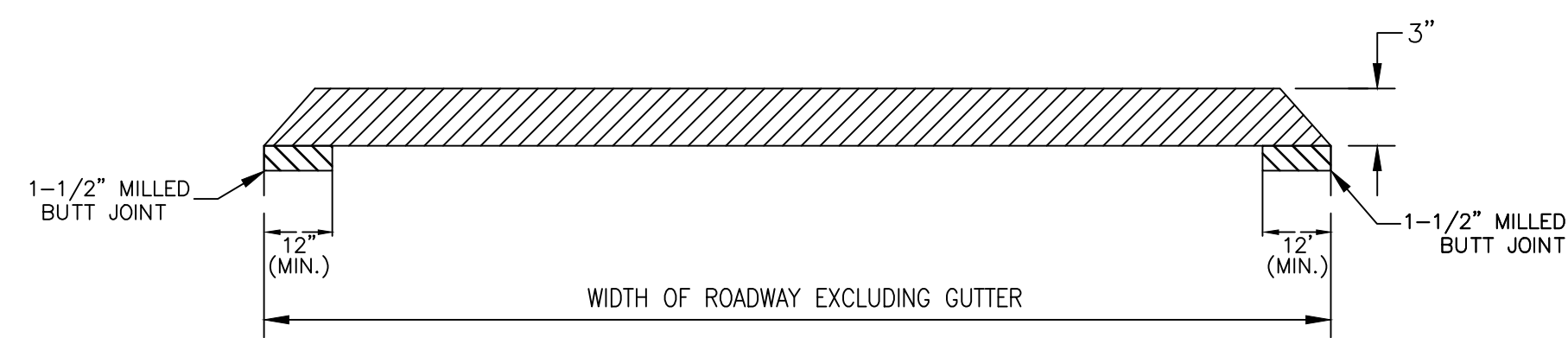
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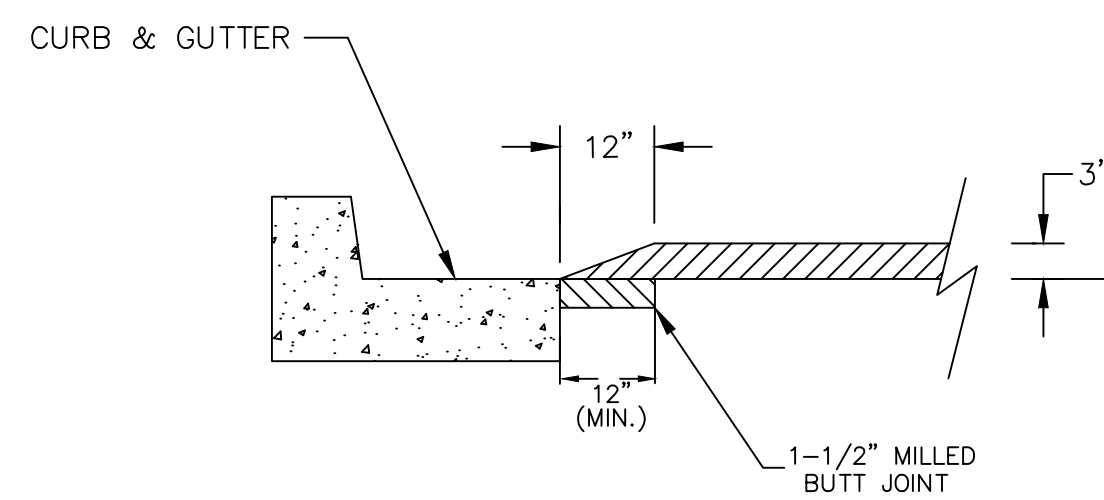
PLAN VIEW



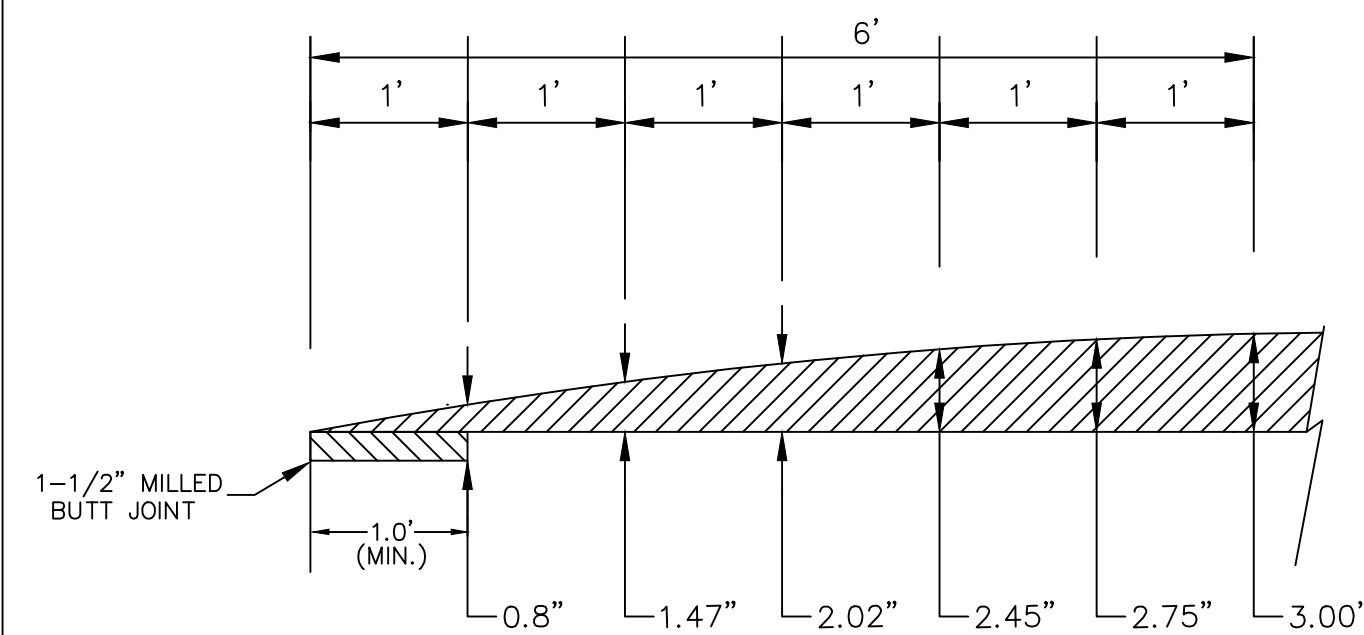
SECTION AA



SECTION BB



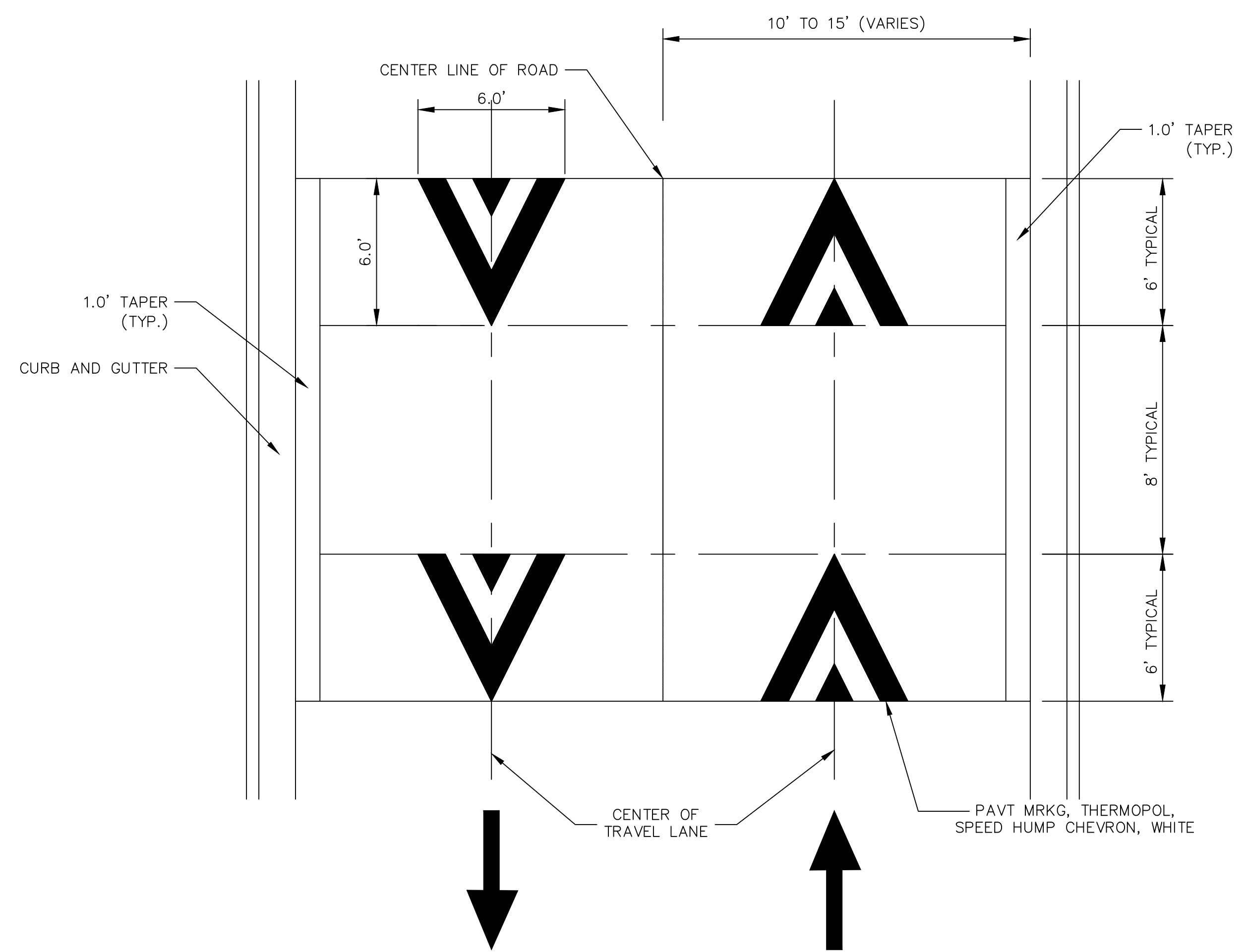
CURB DETAIL



DETAIL 1

HMA SPEED TABLE DETAIL

SCALE: NOT TO SCALE



PAVEMENT MARKING DETAIL

SCALE: NOT TO SCALE

GENERAL NOTES

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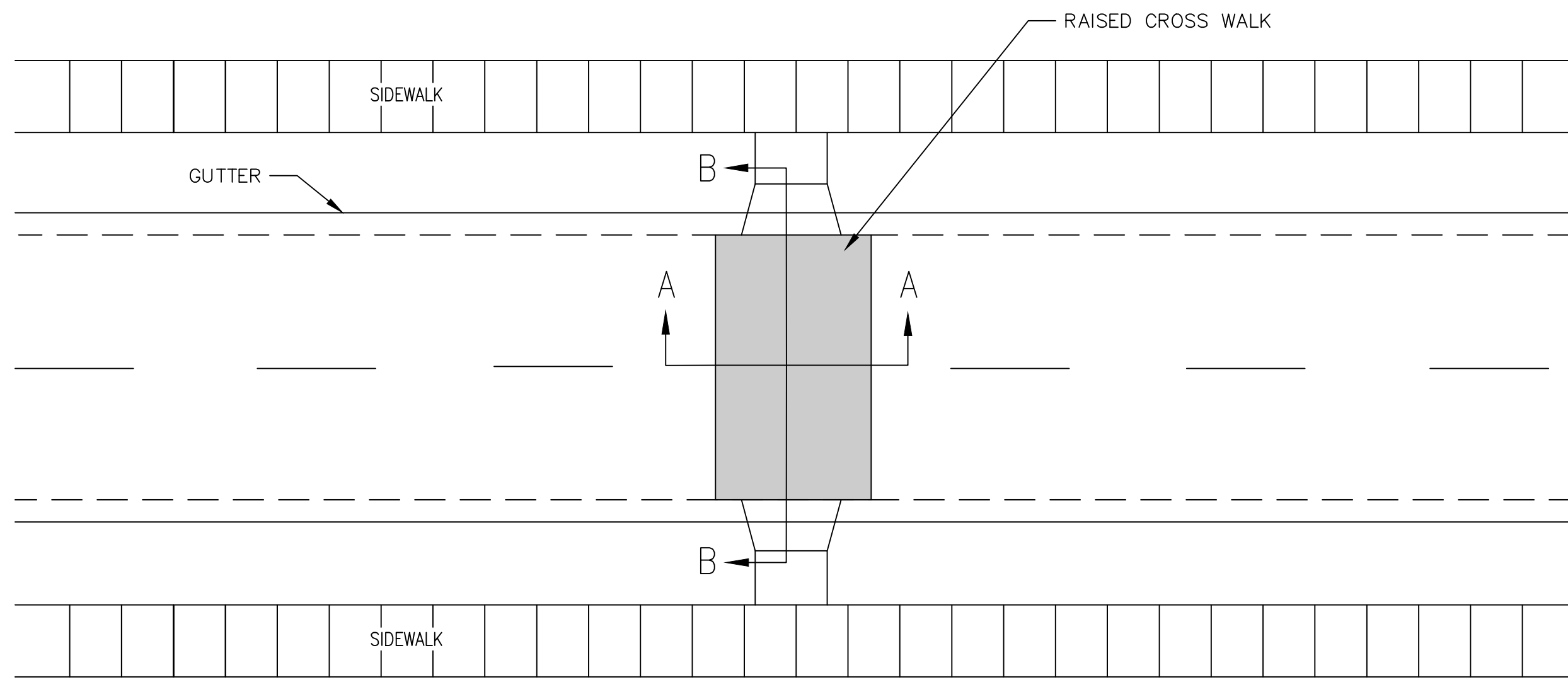
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2021
TRAFFIC CALMING DETAIL - HMA SPEED TABLE DETAIL

SCALE PLAN: NTS
DRAWING No. 2021-004-10

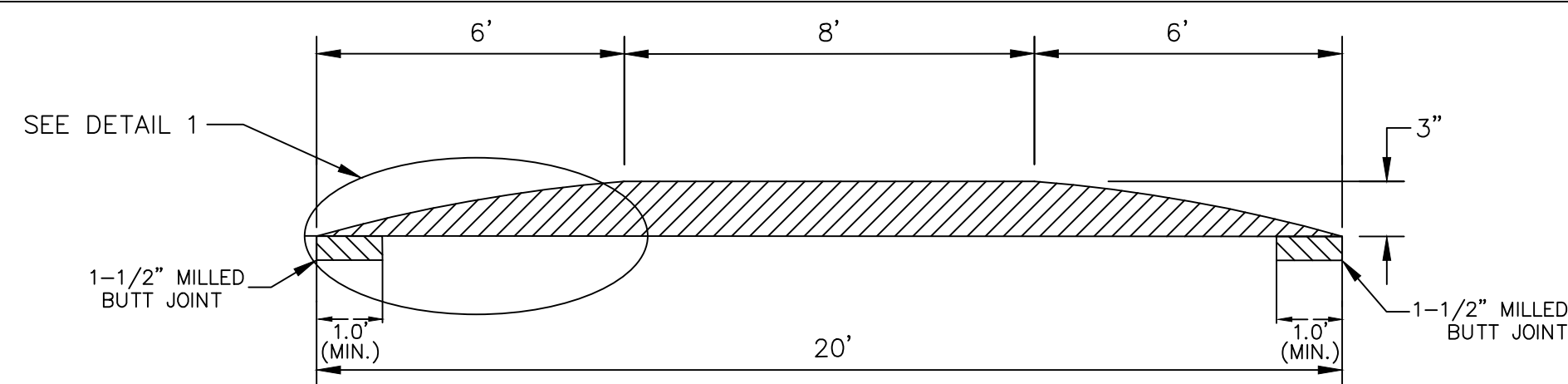
SHEET No.

REV.	DATE	DESCRIPTION	DRAWN	CHECKED
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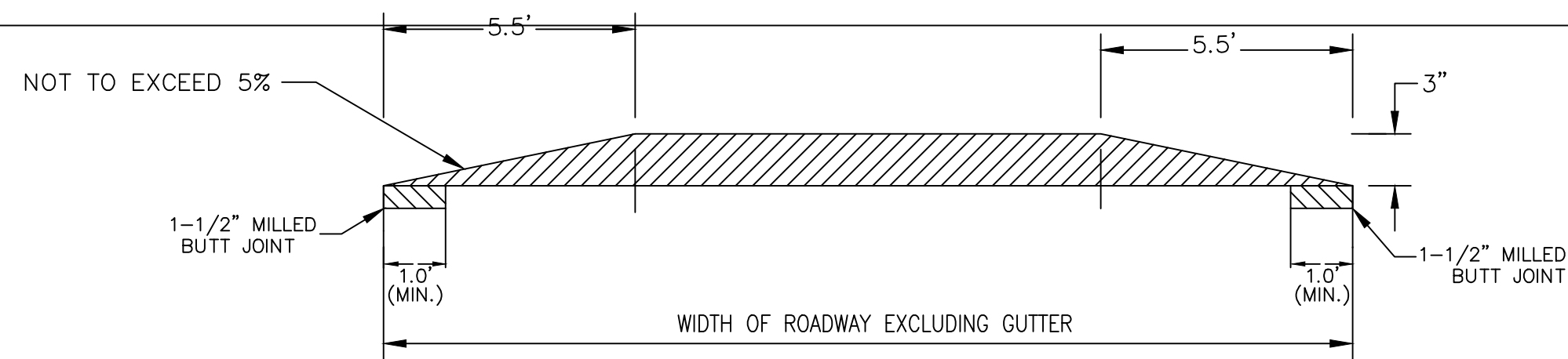
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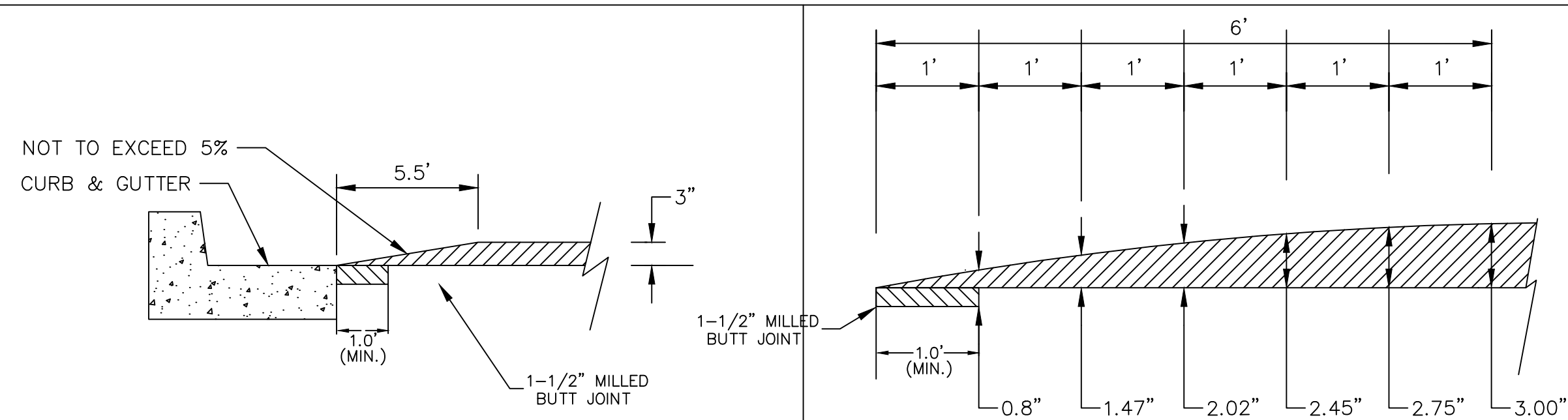
PLAN VIEW



SECTION AA



SECTION BB

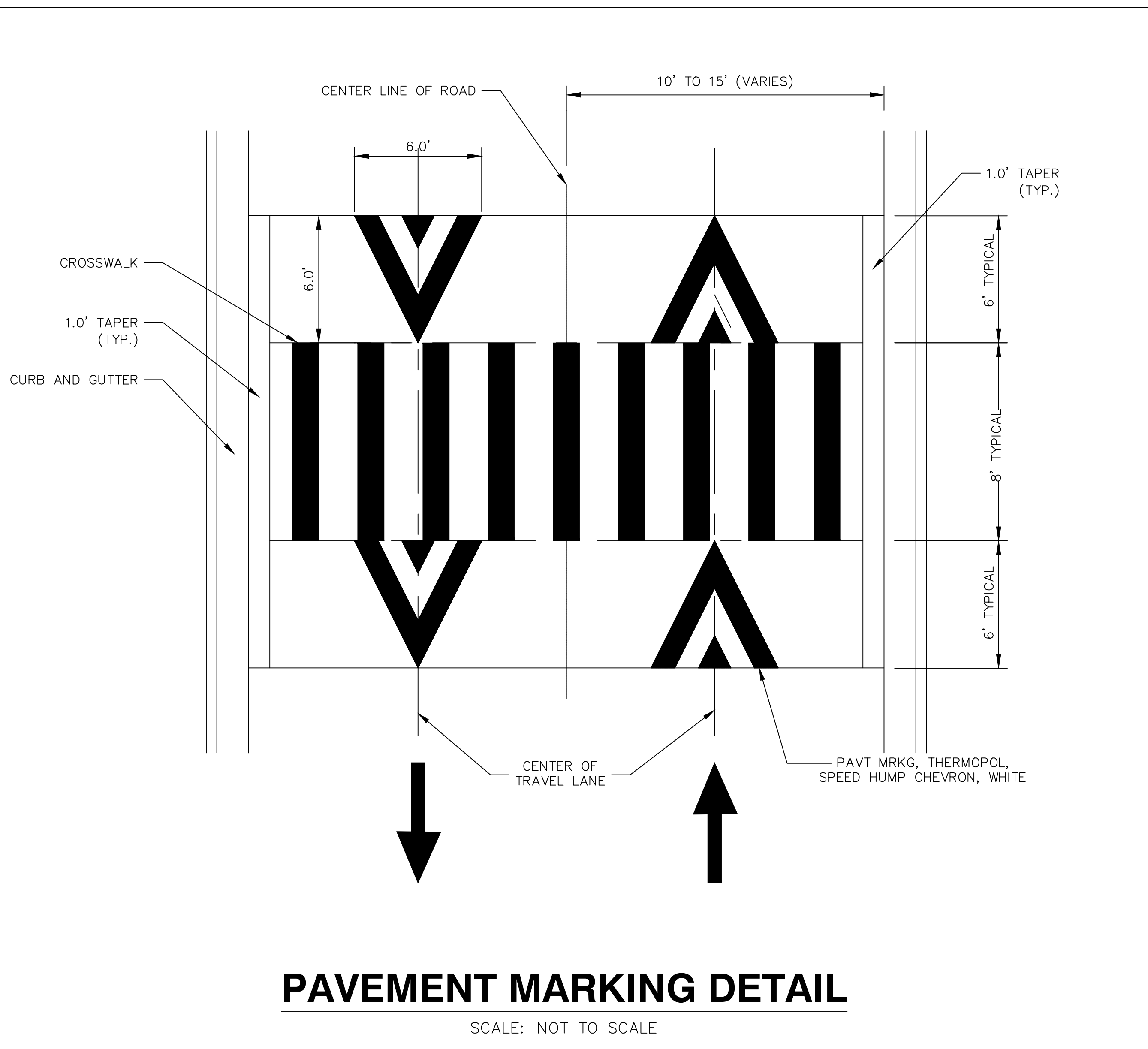


CURB DETAIL

DETAIL 1

HMA RAISE CROSS WALK DETAIL

SCALE: NOT TO SCALE



PAVEMENT MARKING DETAIL

SCALE: NOT TO SCALE

GENERAL NOTES

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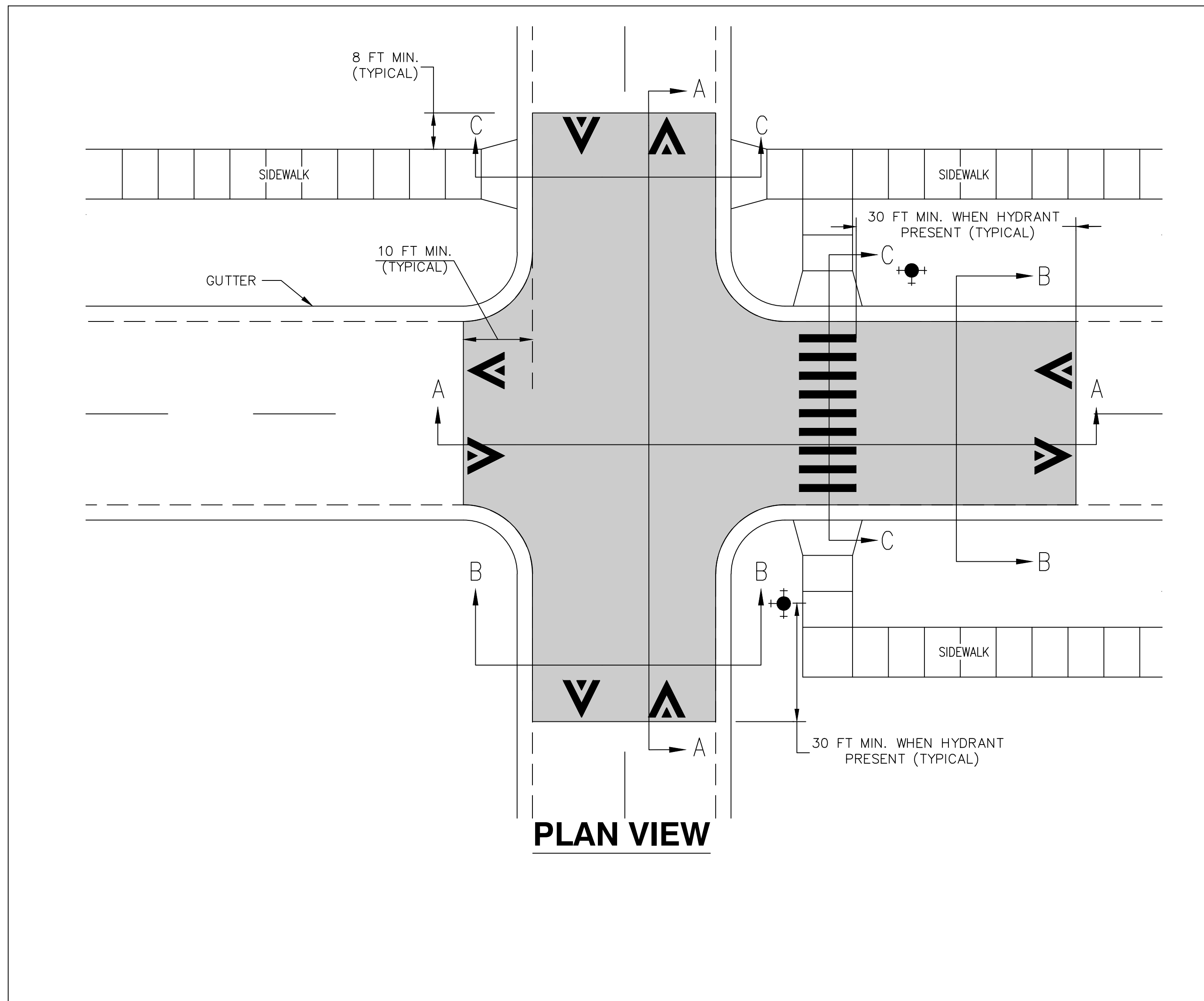
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2021
TRAFFIC CALMING DETAIL - HMA RAISE CROSS WALK DETAIL

SCALE PLAN: NTS
DRAWING No. 2021-004-11

SHEET No.

REV.	DATE	DESCRIPTION	DRAWN	CHECKED
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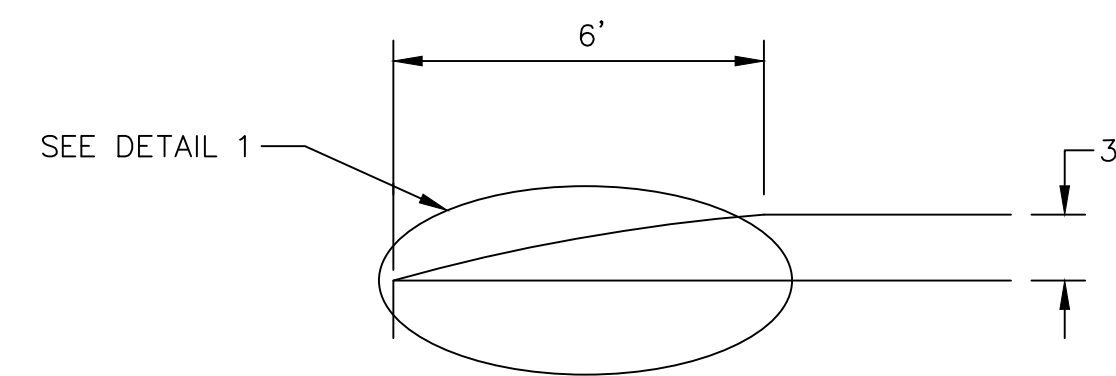
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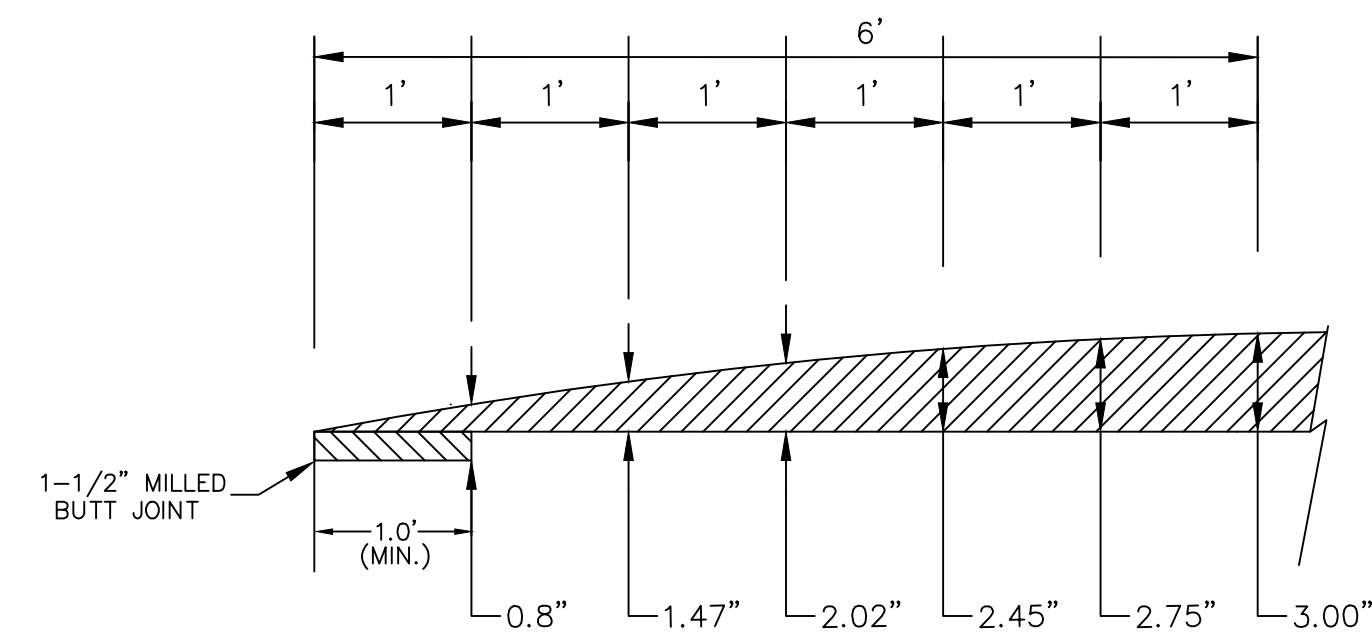
PLAN VIEW

GENERAL NOTES

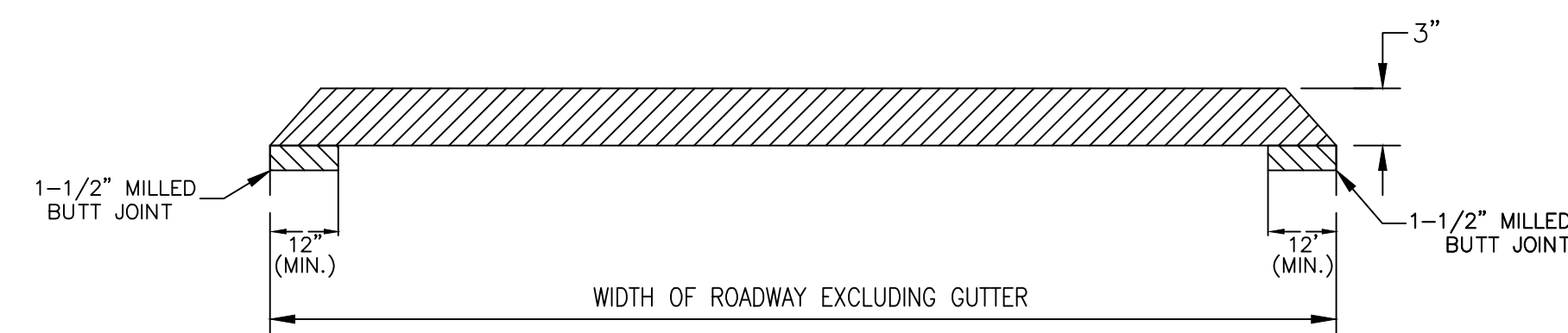
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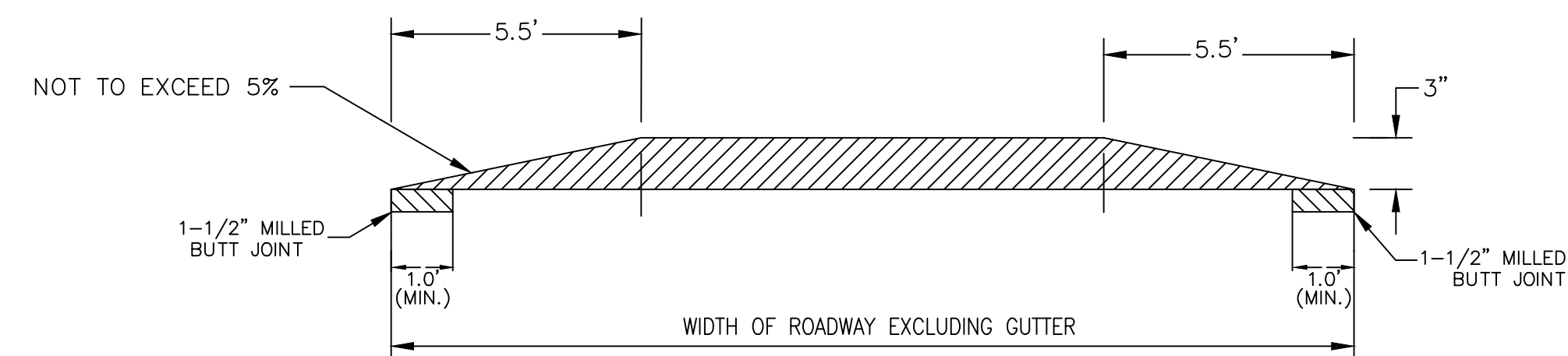
SECTION AA



DETAIL 1



SECTION BB



SECTION CC

HMA RAISE INTERSECTION DETAIL

SCALE: NOT TO SCALE



CITY OF ANN ARBOR
PUBLIC SERVICE
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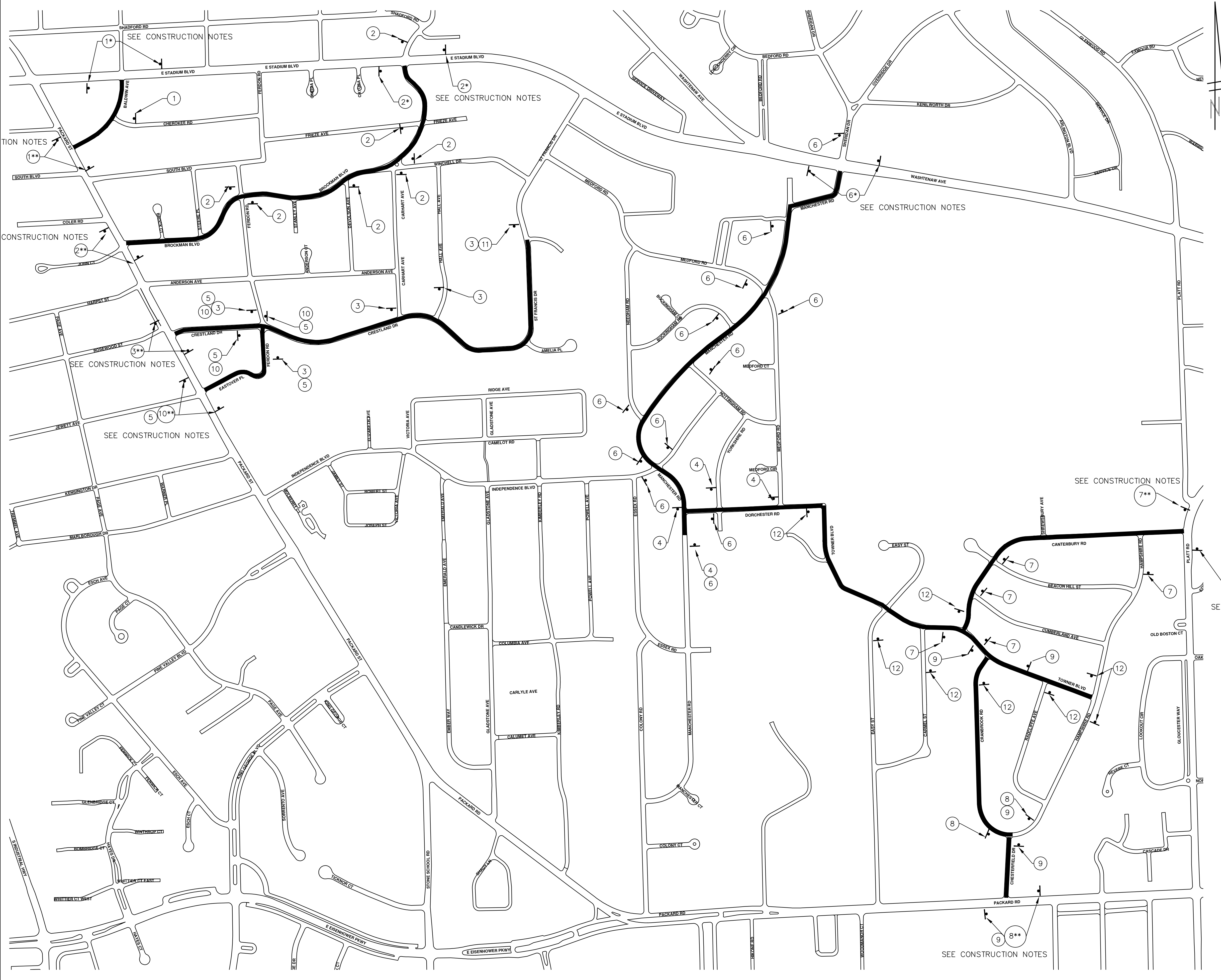
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2021
TRAFFIC CALMING DETAIL - HMA RAISE INTERSECTION DETAIL

SCALE PLAN: NTS
DRAWING No. 2021-004-12

SHEET No.

REV.	DATE	DESCRIPTION
01	03/25/21	ADDENDUM 3
		DRAWN
		CHECKED

T:\2021004\Plan Production\2021004 - Local Traffic.dwg Created: 10-Mar-21 - _a2 standard bw.stb - Plot Date: 25-Mar-21




TRAFFIC CONTROL SIGN			
SIGN	NUMBER	QUANTITY	
	W20-1 36x36	41***	
①	D3-1	5	
②	D3-1	11	
③	D3-1	7	
④	D3-1	4	
⑤	D3-1	5	
⑥	D3-1	14	
⑦	D3-1	7	
⑧	D3-1	4	
⑨	D3-1	4	
⑩	D3-1	5	
⑪	D3-1	1	
⑫	D3-1	8	

CONSTRUCTION NOTES:
 PLACE APPLICABLE D3-1 SIGN IN ADVANCE OF WORK PERFORMED ON EACH STREET PRIOR TO WORK BEGINNING. VERIFY EXACT QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING AND PLACING TRAFFIC DEVICES.

*** THIS IS THE MOST W20-1 THAT WILL BE USED AT ONE TIME


#* FOLLOW MDOT MAINTAINING TRAFFIC TYPICAL M0250a

##* FOLLOW MDOT MAINTAINING TRAFFIC TYPICAL M0232a



Know what's below.
Call before you dig.

01	ADDENDUM 3	DATE	03/25/21	DESCRIPTION	DRAWN	CHECKED	DAD	AG/CE/GS	



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 PUBLIC SERVICES
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 ANN ARBOR, MI 48106-1647
 ANN ARBOR: 734.794.4410
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021

LOCAL STREET TRAFFIC CONTROL-1

SCALE: NTS

DRAWING No. 2021-004-13

SHEET No. 13 OF 51



TRAFFIC CONTROL SIGN			
	SIGN	NUMBER	QUANTITY
		W20-1 36x36	10
①		D3-1	2
②		D3-1	2
③		D3-1	4
④		D3-1	4
⑤		D3-1	2

CONSTRUCTION NOTES:

PLACE APPLICABLE D3-1 SIGN IN ADVANCE OF WORK PERFORMED ON EACH STREET PRIOR TO WORK BEGINNING.

VERIFY EXACT QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING AND PLACING TRAFFIC DEVICES.

CONTRACTOR SHALL COORDINATE SIGNAL TIMING AND WORK WITH CHUCK FOJTIK FROM SIGNALS AND SIGNALS.

FOLLOW MDOT MAINTAINING TRAFFIC TYPICAL M0250g

##** FOLLOW MDOT MAINTAINING TRAFFIC TYPICAL M0232g

Know what's below. Call before you dig.

01	ADDENDUM 3	DESCRIPTION	DAD	CHECKED
			AG/CE/GS	DRAWN
	03/25/21	DATE		

CITY OF ANN ARBOR - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
 LOCAL STREET TRAFFIC CONTROL-2

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR

SCALE: NTS

DRAWING No. 2021-004-14

SHEET No. 14 OF 51



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: PACKARD ST HMA PATH

ITB No. 4667 FILE No. 2021-004

T:\2021004\Plan Production\Major Streets\2021004 - Packard St HMA Path.dwg Dwg Created: 25-Mar-21 - Plot Date: 25-Mar-21

QUANTITIES			
Item Code	Item Description	Unit	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	118.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	82.000
2057011	_Grading, Driveway Approach	Syd	15.000
2057011	_Grading, Sidewalk	Syd	62.000
2057011	_Grading, Sidewalk Ramp	Syd	6.000
2057021	_Undercutting, Type IIA	Cyd	188.000
2087050	Erosion Control, Inlet Protection, Fabric Drop	Ea	21.000
2080036	Erosion Control, Silt Fence	Ft	324.000
3027011	_Aggregate Base, 8 inch, Modified	Syd	933.000
3057011	_Shared use Path, HMA Base Crushing and Shaping	Syd	2,630.000
3077001	_Trenching, Modified	Cyd	311.000
5010005	HMA Surface, Rem	Syd	26.000
5010025	Hand Patching	Ton	5.000
8017011	_Driveway, Nonreinf Conc, 8 inch, Modified	Syd	15.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	67.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	22.000
8030030	Curb Ramp Opening, Conc	Ft	51.000
8037001	_Detectable Warning Surface, Modified	Ft	5.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	53.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	54.000
8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	500.000
8060040	Shared use Path, HMA	Ton	1,138.000
8067011	_Shared use Path, Grading, Modified	Syd	26.000
8120035	Channelizing Device, 42 inch, Fluorescent, Furn	Ea	68.000
8120036	Channelizing Device, 42 inch, Fluorescent, Oper	Ea	68.000
8120140	Lighted Arrow, Type C, Furn	Ea	2.000
8120141	Lighted Arrow, Type C, Oper	Ea	2.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	2.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	2.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	4.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	4.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	316.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	316.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	40.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	40.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	8.000
8167011	_Slope Restoration	Syd	2,501.000
8190244	Hh, Adj	Ea	1.000
8230431	Gate Box, Adj, Case 1	Ea	2.000

QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
10.0	*D3-1	Street Name Sign	4.000	40.000
4.0	G20-2	End Road Work	4.500	18.000
2.0	W1-4L	Reverse Curve (Left)	9.000	18.000
2.0	W1-4R	Reverse Curve (Right)	9.000	18.000
2.0	W1-6L	Shift arrow Left	9.000	18.000
2.0	W1-6R	Shift arrow Right	9.000	18.000
5.0	W3-5B	Reduce Speed Zone	9.000	45.000
5.0	W20-1	Road Work Ahead Sign	9.000	45.000
1.0	W20-5A	Center Lane Closed Ahead	9.000	9.000
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000
5.0	R2-1	Speed Limit	7.500	38.000
5.0	R5-18C	Work Zone Begins	16.000	80.000

NOTES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THIS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS SHARED USE PATH IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ACTIVITIES LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

PHASE 1 (NORTH/EAST SIDE: INDEPENDENCE BLVD TO STONE SCHOOL RD)

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN TO CLOSE WEST/NORTH BOUND TRAFFIC LANE AND SHIFT TRAFFIC INTO THE CENTER TURN LANE. INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES. REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES FROM ROADWAY AND OPEN IT TO NORMAL TRAFFIC OPERATIONS AT THE END OF EACH WORK DAY UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- REMOVE OVERBURDEN OF VEGETATION AND SOILS ALONG EACH SIDE OF THE PATH, AND TEMPORARY LOWER ANY/ALL UTILITY STRUCTURES WITHIN THE EXISTING PATH SURFACE.
- PERFORM CRUSHING AND SHAPING OF THE EXISTING PATH. COMPACT AND PROOF ROLL CRUSHED MATERIAL TO IDENTIFY AREAS REQUIRING BASE REPAIRS AND/OR UNDERCUTS AS DIRECTED BY THE ENGINEER.
- COMPLETE NECESSARY PAVEMENT REMOVAL, EARTHWORK AND GRADING TO WIDEN THE PATH AS REQUIRED TO ACHIEVE A CONSISTENT ±8 FOOT WIDTH FOR ITS ENTIRE LENGTH AND TO MATCH GRADES OF EXISTING FACILITIES ADJACENT TO THE PATH (I.E., SIDEWALKS, RAMPS, CURB CUTS, DRIVEWAYS, ETC.) ALL AS DIRECTED BY THE ENGINEER.
- UPON APPROVAL FROM THE ENGINEER PLACE 3.5 INCH PAVEMENT COURSE HMA MIX (LVSP).
- PERFORM ALL CONCRETE REMOVAL AND REPLACEMENT WORK AS DIRECTED BY THE ENGINEER.
- ADJUST ANY/ALL UTILITY STRUCTURES WITHIN THE EXISTING PATH SURFACE TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- COMPLETE ALL SLOPE RESTORATION WORK.
- REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES AND SESC MEASURES AND OPEN PATH AND ROADWAY TO NORMAL OPERATIONAL USE UPON APPROVAL OF THE ENGINEER.

PHASE 2 (NORTH SIDE: COLONY RD TO JUST WEST OF EASY STREET)

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN TO CLOSE THE RIGHT MOST TRAFFIC LANE IN THE WESTBOUND DIRECTION AND SHIFT TRAFFIC INTO LEFT LANE. INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES. REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES FROM ROADWAY AND OPEN IT TO NORMAL TRAFFIC OPERATIONS AT THE END OF EACH WORK DAY UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- REMOVE OVERBURDEN OF VEGETATION AND SOILS ALONG EACH SIDE OF THE PATH, ADJUST ANY/ALL UTILITY STRUCTURES WITHIN THE EXISTING PATH SURFACE.
- COMPLETE NECESSARY PAVEMENT REMOVAL, EARTHWORK AND GRADING TO WIDEN THE PATH AS REQUIRED TO ACHIEVE A CONSISTENT ±8 FOOT WIDTH FOR ITS ENTIRE LENGTH AND TO MATCH GRADES OF EXISTING FACILITIES ADJACENT TO THE PATH (E.I., SIDEWALKS, RAMPS, CURB CUTS, DRIVEWAYS, ETC.) ALL AS DIRECTED BY THE ENGINEER
- REPEAT ITEMS 5 THRU 9 IN THE ORDER SHOWN ABOVE.

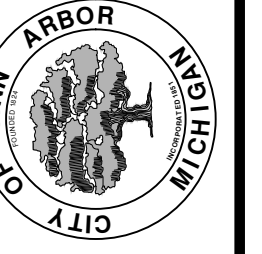
PHASE 3 (SOUTH SIDE: WOODMANOR COURT TO ROSEDALE ST)

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN TO CLOSE THE RIGHT MOST TRAFFIC LANE IN THE EASTBOUND DIRECTION AND SHIFT TRAFFIC INTO LEFT LANE. INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES. REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES FROM ROADWAY AND OPEN IT TO NORMAL TRAFFIC OPERATIONS AT THE END OF EACH WORK DAY UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- REPEAT ITEMS 2 THRU 9 IN THE ORDER SHOWN ABOVE.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION FOR ALL PHASES INCLUDING ALL CLEAN UP, FINAL RESTORATION, REMOVAL OF SESC MEASURES, MISS DIG MARKERS, ETC.
- REMOVE FROM SITE ANY/ALL TEMPORARY TRAFFIC CONTROL DEVICES NOT PREVIOUSLY ADDRESSED.



01	ADDENDUM 3	DATE	03/25/21	AC/CE/GS	DRAWN	DAD	CHECKED
		REV.					

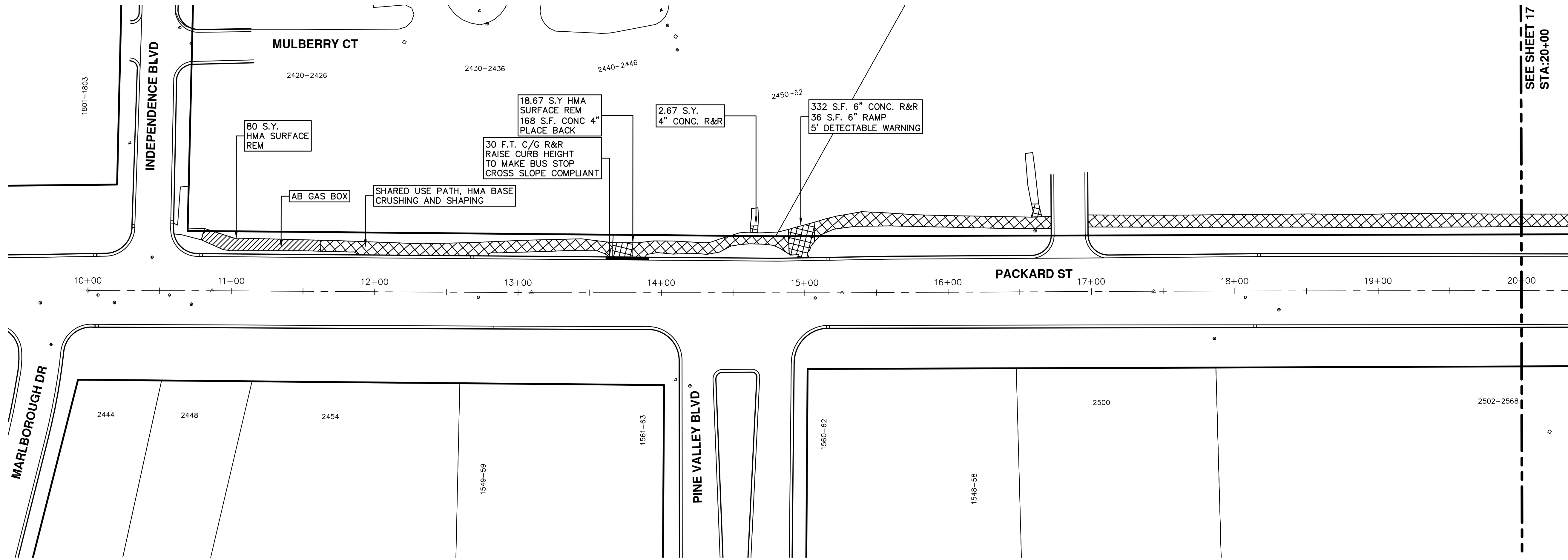
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
PACKARD ST HMA PATH
SUBSET COVER SHEET

SCALE: NTS
DRAWING No.
2021-004-15

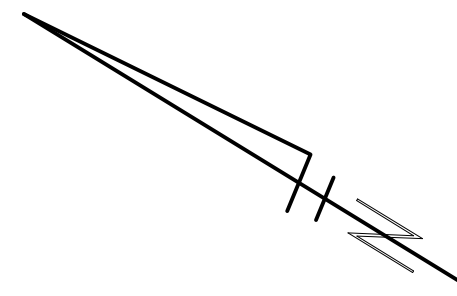
T:\2021004\Plan Production\Major Streets\2021004 - Packard St HMA Path.dwg Dwg Created: 25-Mar-21 - _a2_standard.bw.stb - Plot Date: 25-Mar-21



IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE A SAFE AND ENGINEER APPROVED LOCATION TO STORE EQUIPMENT AND MATERIALS. EQUIPMENT IS NOT TO BE STORED IN PRIVATE PROPERTY WITH OUT WRITTEN APPROVAL FROM THE OWNER. IF EQUIPMENT IS PERMITTED TO BE STORED WITHIN THE WORK AREA IT MAY NOT RESTRICT LINE OF SIGHT FOR MOTORIST OR PEDESTRIANS.

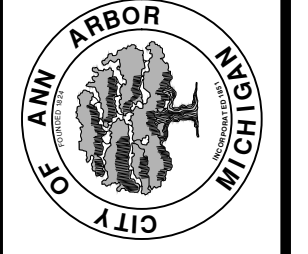
WHERE THE PATH MEETS CONCRETE A MINIMUM OF 15' FROM THE CONC OUT WILL NEED TO BE GRADED DOWN 3" FROM TOP OF CONCRETE, OUT 15' TO THE CRUSHED AND SHAPED BASE. THIS IS TO ALLOW THE NEW HMA PATH TO MEET THE EXISTING CONCRETE GRADES IN THE FIELD. WHERE THIS IS NOT FEASIBLE THE CONCRETE WALK WILL BE REMOVED AND REPLACED TO MATCH THE NEW HMA PATH.

TRAFFIC CONTROL DEVICES ARE TO BE REMOVED FROM THE ROAD WAY AT THE END OF EACH DAY. FOLLOW MDOT MAINTAINING TRAFFIC TYPICAL M0232a FOR REQUIRED TRAFFIC SET UP FROM STONE SCHOOL ROAD TO INDEPENDENCE BLVD.



REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	03/25/21	ADDENDUM 3	JAC/CE/JS	DAD

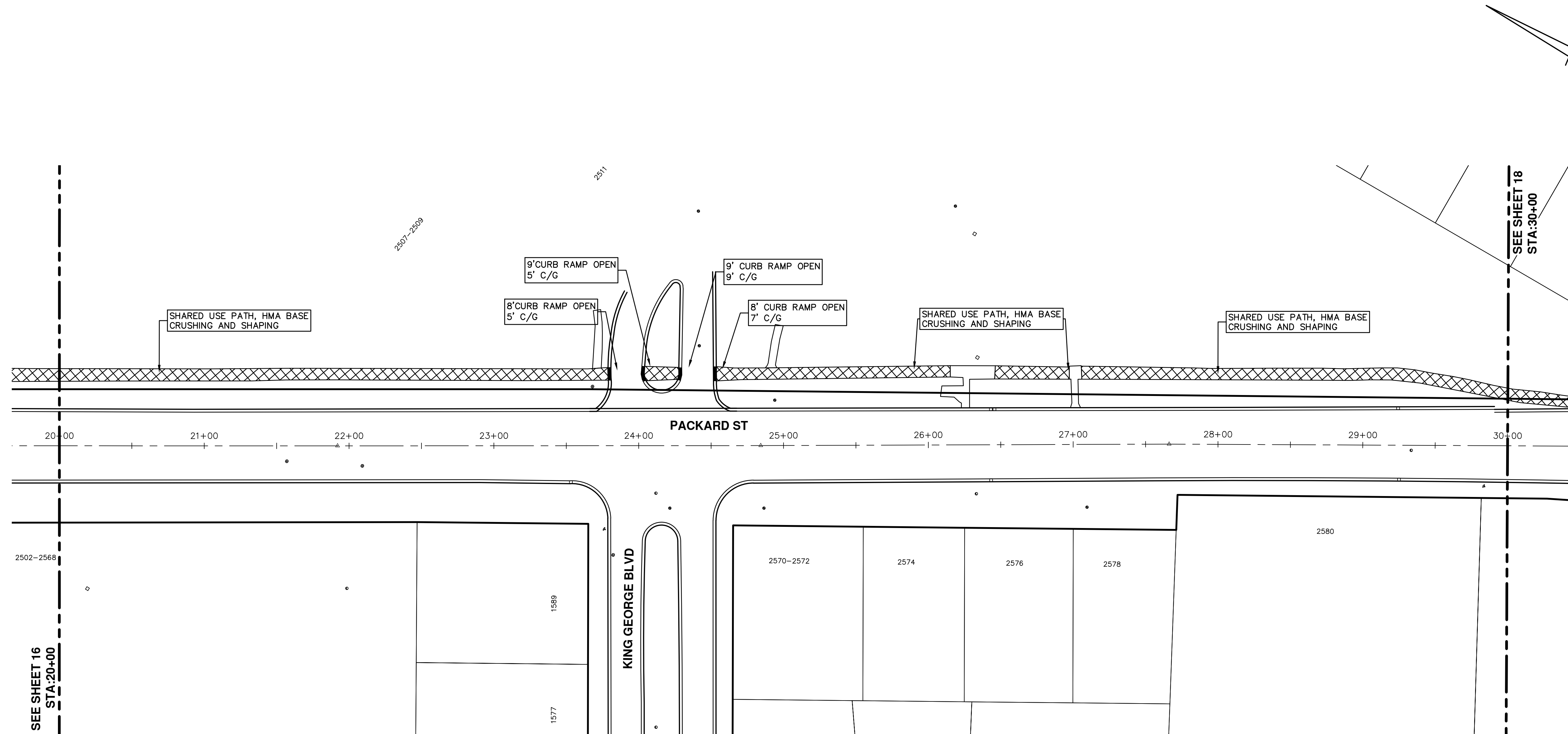
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
PACKARD ST HMA PATH
STA. 10+00 - STA. 20+00

SCALE PLAN: 1"=40'
DRAWING No. 2021-004-16

T:\2021004\Plan Production\Major Streets\2021004 - Packard St HMA Path.dwg Dwg Created: 25-Mar-21 - _a2 standard bw.stb - Plot Date: 25-Mar-21



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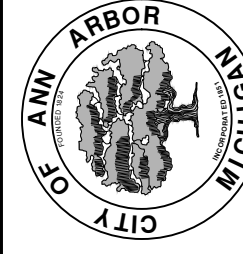
WHERE THE PATH MEETS CONCRETE A MINIMUM OF 15' FROM THE CONC OUT WILL NEED TO BE GRADED DOWN 3" FROM TOP OF CONCRETE, OUT 15' TO THE CRUSHED AND SHAPED BASE. THIS IS TO ALLOW THE NEW HMA PATH TO MEET THE EXISTING CONCRETE GRADES IN THE FIELD. WHERE THIS IS NOT FEASIBLE THE CONCRETE WALK WILL BE REMOVED AND REPLACED TO MATCH THE NEW HMA PATH.

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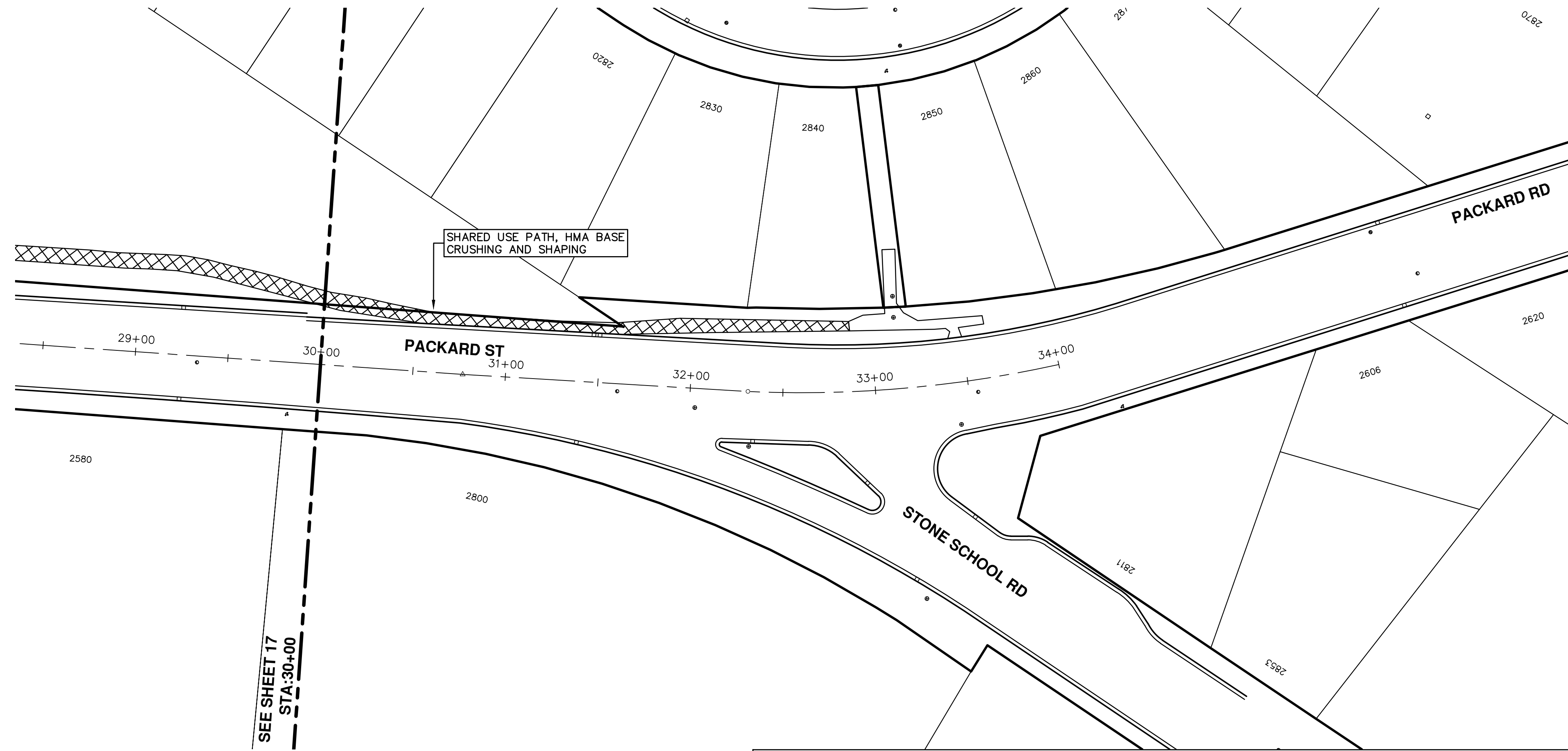
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM 3	03/25/21	JAC/CE/JS	DAD

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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
PACKARD ST HMA PATH
STA. 20+00 - STA. 30+00

SCALE PLAN: 1"=40'
DRAWING No. 2021-004-17



SEE SHEET 17
 - - - STA: 30+00

SHARED USE PATH, HMA BASE
 CRUSHING AND SHAPING

IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE A SAFE AND ENGINEER APPROVED LOCATION TO STORE EQUIPMENT AND MATERIALS. EQUIPMENT IS NOT TO BE STORED IN PRIVATE PROPERTY WITH OUT WRITTEN APPROVAL FROM THE OWNER. IF EQUIPMENT IS PERMITTED TO BE STORED WITHIN THE WORK AREA IT MAY NOT RESTRICT LINE OF SIGHT FOR MOTORIST OR PEDESTRIANS.

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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=40'
 DRAWING No. 2021-004-18

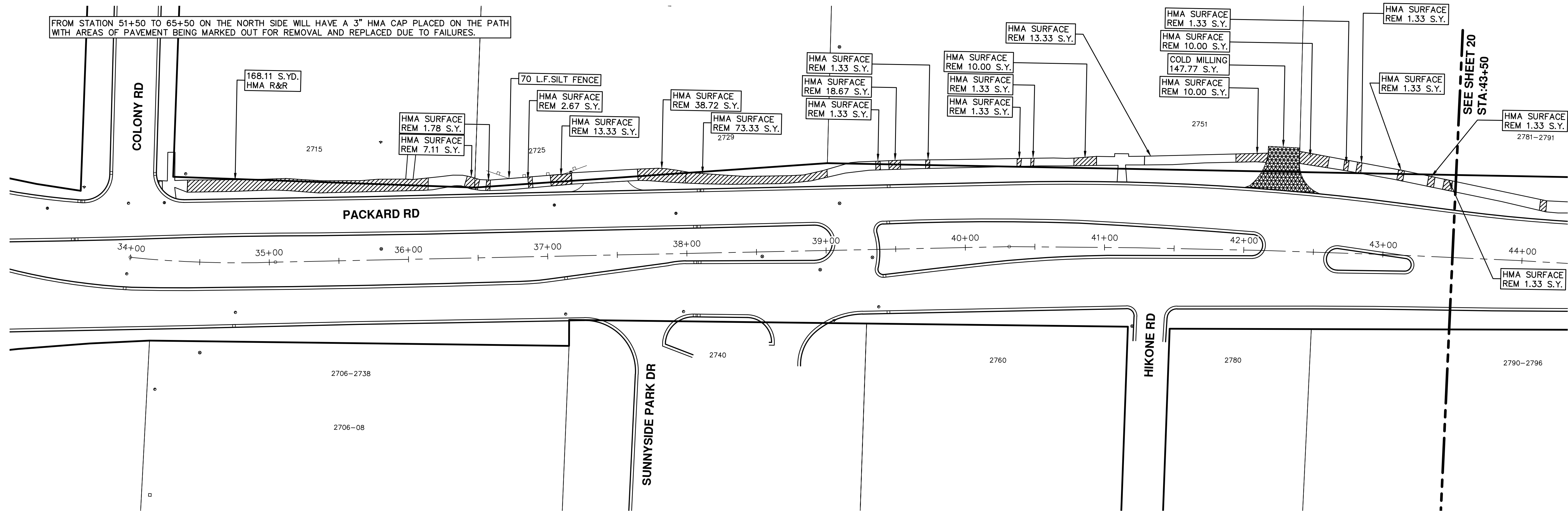
STREET RESURFACING PROJECT - 2021
 PACKARD ST HMA PATH
 STA. 30+00 - STA. 34+00

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01	ADDENDUM 3	03/25/21	JAC/CE/JS	DAD

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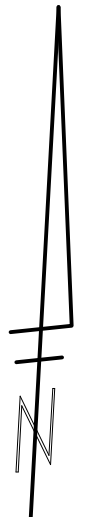
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TRAFFIC CONTROL DEVICES ARE TO BE REMOVED FROM THE ROAD WAY AT THE END OF EACH DAY. FOLLOW MDOT MAINTAINING TRAFFIC TYPICAL M0250g FOR REQUIRED TRAFFIC SET UP.



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR

SCALE PLAN: 1"=40'

DRAWING No. 2021-004-19

SHEET No. 19 OF 51

STREET RESURFACING PROJECT - 2021

PACKARD ST HMA PATH

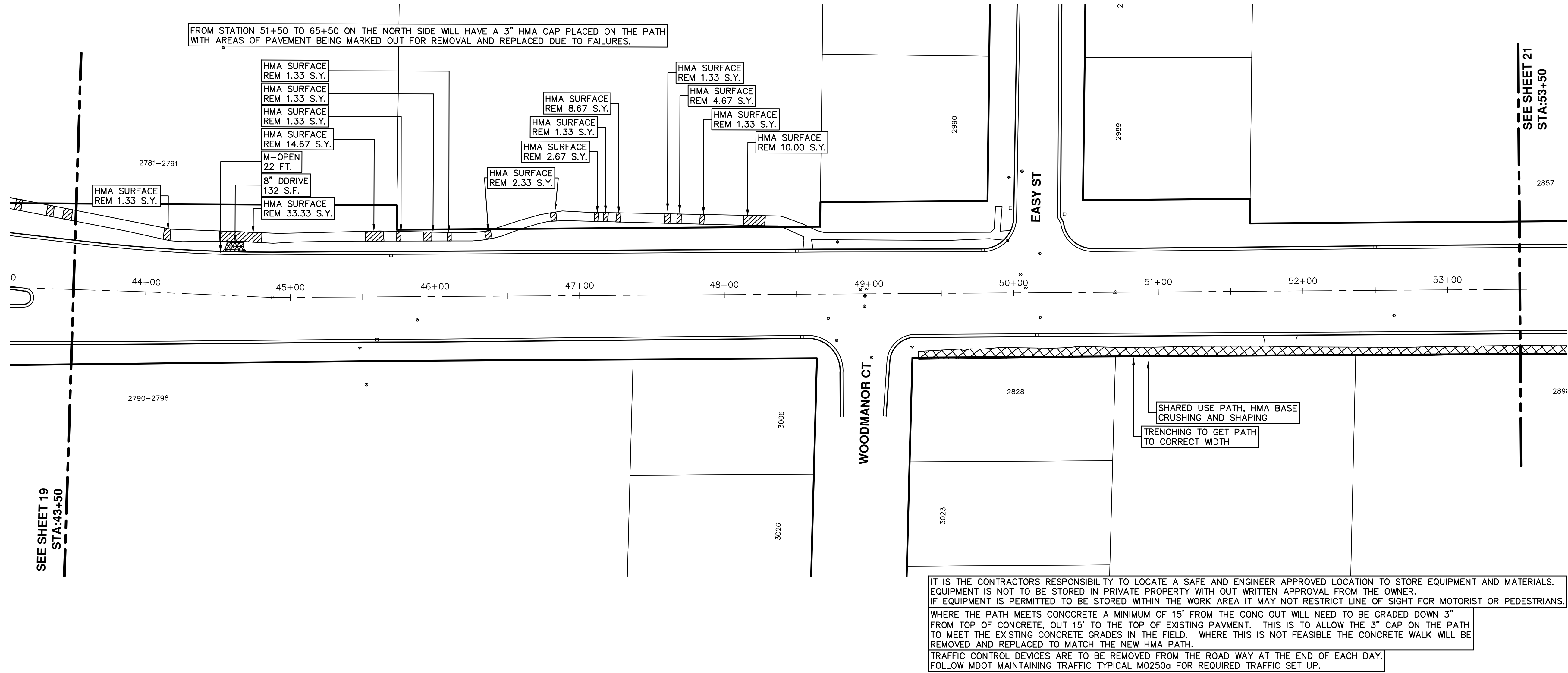
STA. 34+00 - STA. 43+50

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01	ADDENDUM 3	03/25/21	JAC/CE/OS	DAD

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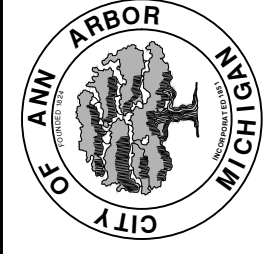
TRAFFIC CONTROL DEVICES ARE TO BE REMOVED FROM THE ROAD WAY AT THE END OF EACH DAY. FOLLOW MDOT MAINTAINING TRAFFIC TYPICAL M0250a FOR REQUIRED TRAFFIC SET UP.

SHARED USE PATH, HMA BASE CRUSHING AND SHAPING
TRENCHING TO GET PATH TO CORRECT WIDTH



REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	03/25/21	ADDENDUM 3	JAC/CE/OS	DAD

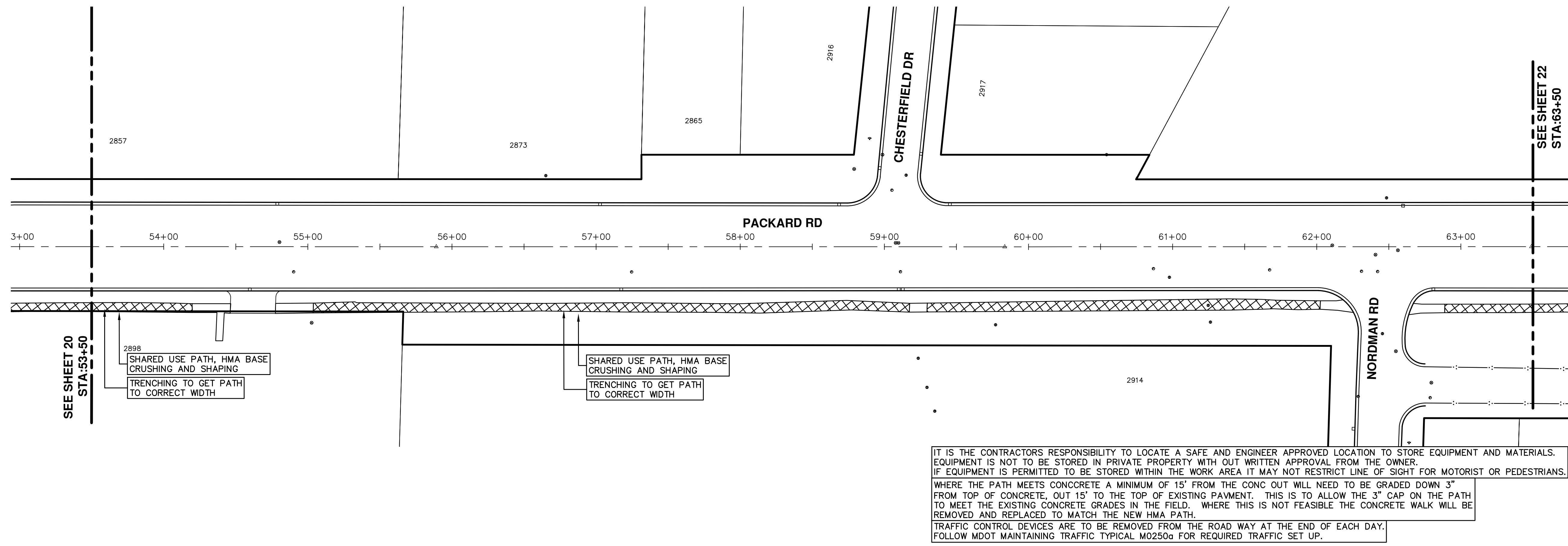
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STREET RESURFACING PROJECT - 2021
PACKARD ST HMA PATH
STA. 43+50 - STA. 53+50

SCALE PLAN: 1"=40'
DRAWING No. 2021-004-20

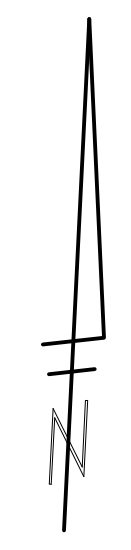
T:\2021004\Plan Production\Major Streets\2021004 - Packard St HMA Path.dwg Dwg Created: 25-Mar-21 - _a2_standard.bw.stb - Plot Date: 25-Mar-21




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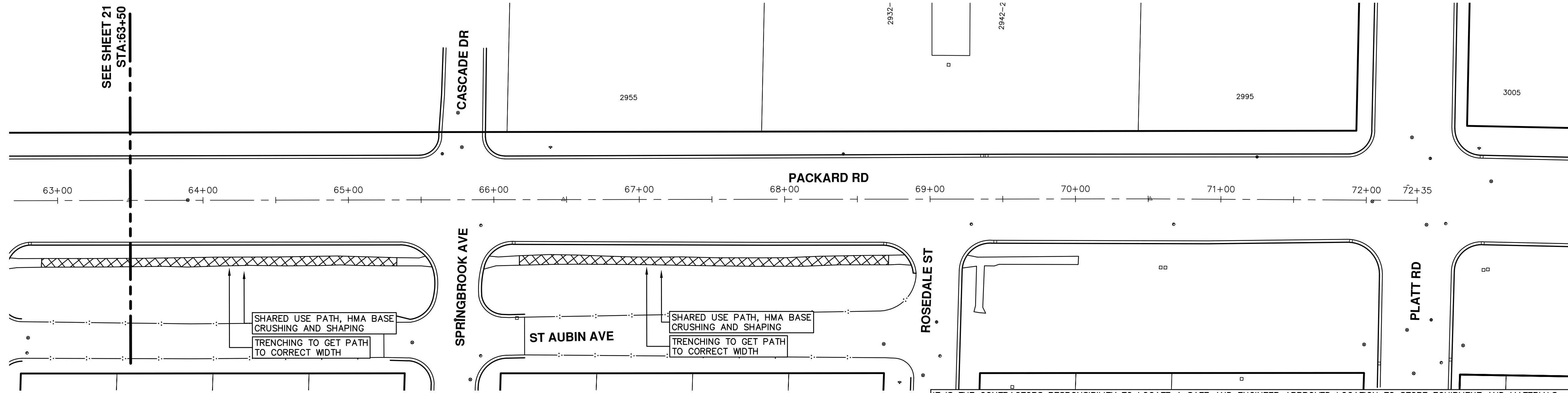
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CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 ANN ARBOR: 734.794.4410 WWW.A2GOV.ORG	ADDENDUM 3 REV. 01 DATE 03/25/21 DESCRIPTION DRAWN CHECKED
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR STREET RESURFACING PROJECT - 2021 PACKARD ST HMA PATH STA. 59+50 - STA. 63+50	
SCALE PLAN: 1"=40' DRAWING No. 2021-004-21	SHEET No. 21 OF 51

T:\2021004\Plan Production\Major Streets\2021004 - Packard St HMA Path.dwg Dwg Created: 25-Mar-21 - _a2_standard.bw.stb - Plot Date: 25-Mar-21



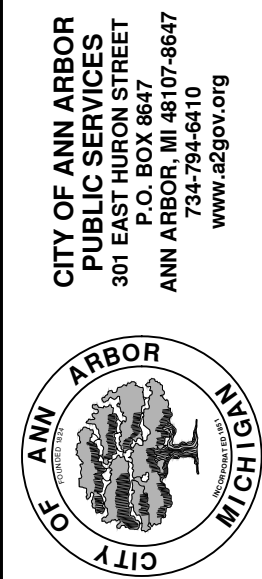
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=40'
 DRAWING No. 2021-004-22

STREET RESURFACING PROJECT - 2021
 PACKARD ST HMA PATH
 STA. 63+50 - STA. 72+35



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REV.	DATE	DESCRIPTION
01	03/25/21	ADDENDUM 3

REV.	DATE	DESCRIPTION
DAD		CHECKED
JAC/CE/JS		DRAWN





CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: HURON PKWY APPROACH TO LINDSAY LANE

ITB No. 4667 FILE No. 2021-004

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

- IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE ALL OF THE EXISTING HMA SURFACE (APPROXIMATELY 4 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE REMOVAL OF THE ROAD BASE MATERIAL TO A DEPTH DETERMINED BY THE ENGINEER.
- PROOF ROLL AND PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DETERMINED BY THE ENGINEER.
- PLACE AGGREGATE BASE MATERIAL AS REQUIRED AND DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- UPON APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (LEVELING COURSE) AS REQUIRED.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH TOP COURSE HMA MIX (LVSP).
- OPEN STREET TO ALL TRAFFIC UPON APPROVAL OF THE ENGINEER.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
- REMOVE ALL SESC MEASURES.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING TEMPORARY CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES, NO PARKING SIGNS, AND MISS DIG FLAGS.

QUANTITIES			
Item Code	Item Description	Unit	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	60.000
2057011	_Machine Grading, Special	Syd	237.000
2057021	_Undercutting, Type IIA	Cyd	8.000
2087050	Erosion Control, Inlet Protection, Fabric Drop	Ea	2.000
5010002	Cold Milling HMA Surface	Syd	237.000
5010005	HMA Surface, Rem	Syd	7.000
5010025	Hand Patching	Ton	1.000
5010703	HMA, LVSP	Ton	55.000
6027021	_Flowable Fill	Cyd	1.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	60.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120035	Channelizing Device, 42 inch, Fluorescent, Furn	Ea	28.000
8120036	Channelizing Device, 42 inch, Fluorescent, Oper	Ea	28.000
8120140	Lighted Arrow, Type C, Furn	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	3.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	3.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	2.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	2.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	110.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	110.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	5.000
8167011	_Slope Restoration	Syd	3.000
8190244	Hh, Adj	Ea	1.000

QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
2.0	*D3-1	Street Name Sign	4.000	8.000
2.0	G20-2	End Road Work	4.500	9.000
2.0	W3-5B	Reduce Speed Zone	9.000	18.000
1.0	W4-2R	Lane Ends / Right	9.000	9.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000
2.0	R2-1	Speed Limit	7.500	15.000
2.0	R5-18C	Work Zone Begins	16.000	32.000
		TOTAL		118.000

NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

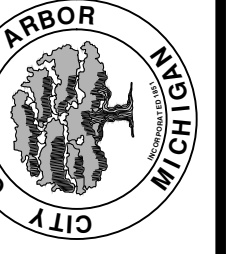
THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

I:\2021004\Plan Production\Major Streets\2021004 - Huron Pkwy approach.dwg Dwg Created: 24-Mar-21 - _o2 standard b.w.stb - Plot Date: 25-Mar-21



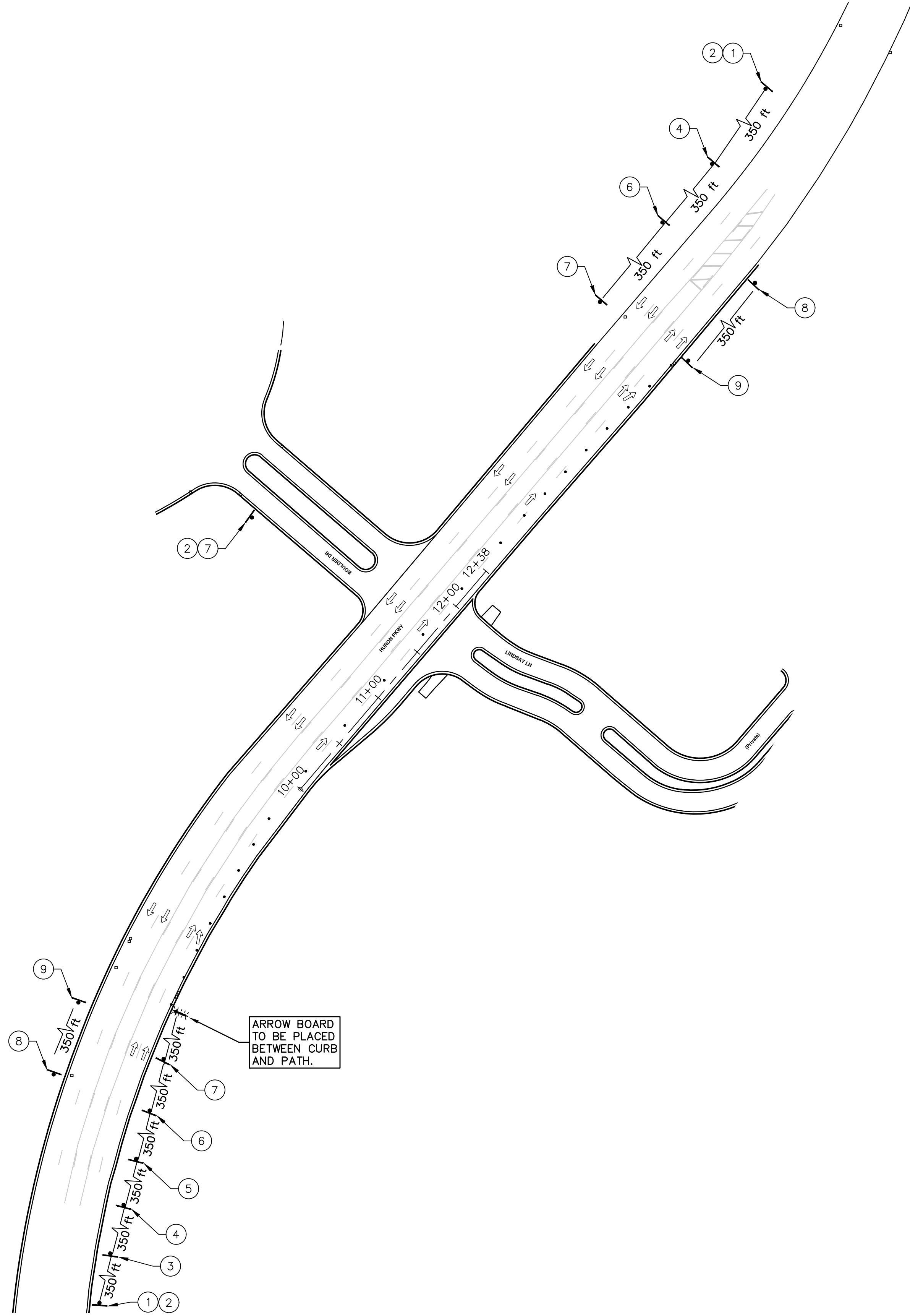
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	03/25/21	ADDENDUM 3		

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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
HURON PKWY APPROACH TO LINDSAY LANE
SUBSET COVER SHEET

SCALE: NTS
DRAWING No. 2021-004-23



TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
①		W20-1 36"x36"
②		D3-1 48"x12"
③		W20-5 36"x36"
④		W3-5B 36"x36"
⑤		W4-2 36"x36"
⑥		R5-18C 48"x48"
⑦		R2-1 30"x36"
⑧		G20-2 48"x24"
⑨		R2-1 30"x36"

KEY	
CHANNELIZING DEVICES
LIGHTED ARROW PANEL (CAUTION MODE)	
TRAFFIC FLOW	



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
 STREET RESURFACING PROJECT - 2021
 HURON PKWY APPROACH TO LINDSAY LANE

SCALE PLAN: Custom
 DRAWING No. 2021-004-24

TRAFFIC CONTROL

01 REV. DESCRIPTION

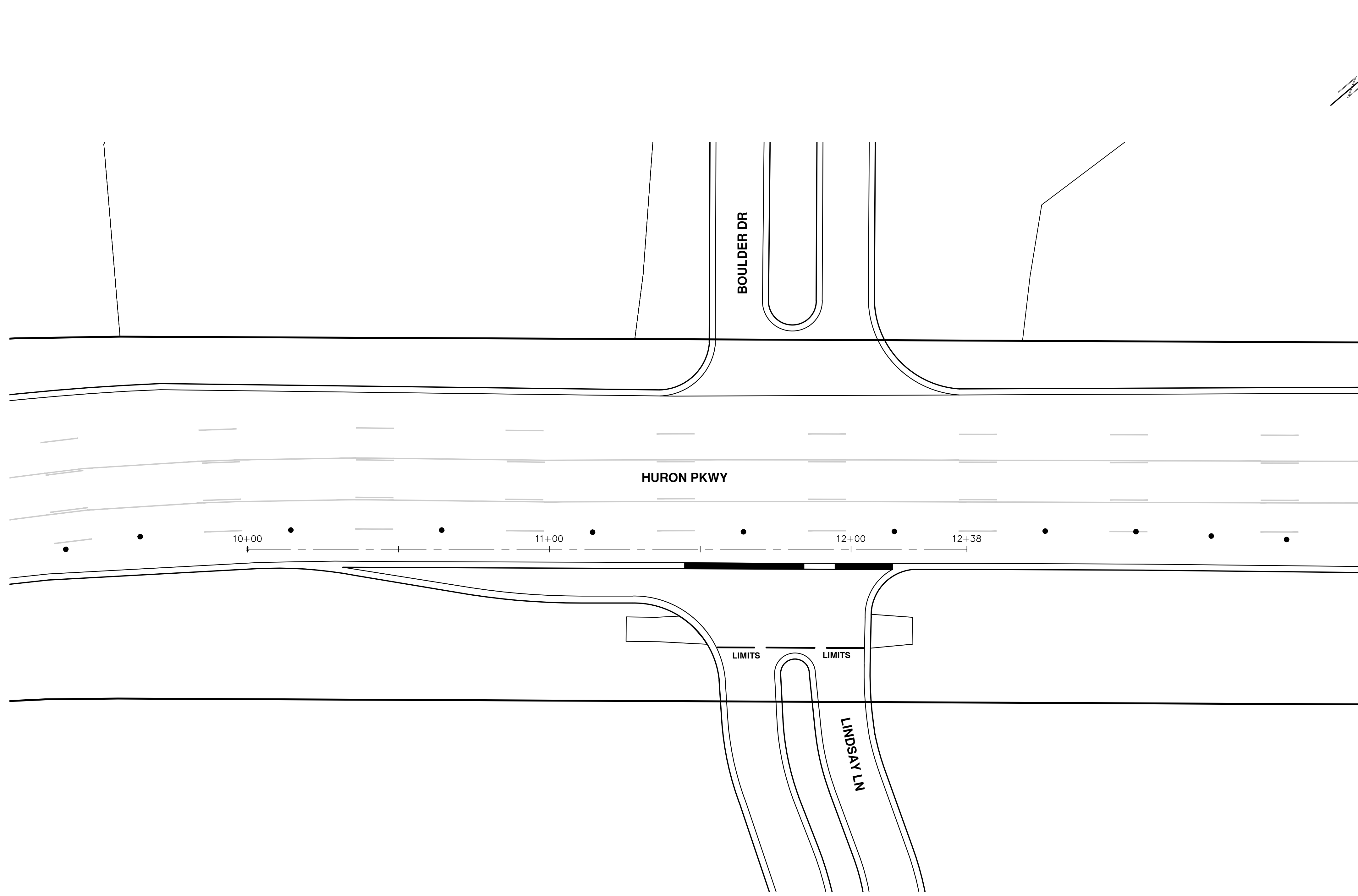
03/25/21 DATE

JAC/CE/OS DRAWN

DAD CHECKED

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 ANN ARBOR: 734.794.4410
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 SCALE PLAN: 1" = 20'
 DRAWING No.
 2021-004-25

STREET RESURFACING PROJECT - 2021
 HURON PKWY APPROACH TO LINDSAY LANE
 STA. 10+00 - STA. 12+38



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM 3	03/25/21	JAC/CE/JS	DAD





CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: GLENWOOD ROAD

ITB No. 4667 FILE No. 2021-004

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

PHASE 1/STAGE 1 (EAST SIDE OF STREET):

- INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
- CONDUCT REMOVAL WORK RELATED TO TRAFFIC CALMING DEVICES. ONLY PERFORM WORK IN ONE QUADRANT OF THE GLENWOOD RD AND WARWICK RD INTERSECTION WHILE MAINTAINING TRAFFIC IN THE OTHER QUADRANT.
- INSTALL TRAFFIC CALMING DEVICES AS SHOWN ON THE PLANS.

PHASE 1/STAGE 2 (EAST SIDE OF STREET):

- UPON OPENING STAGE 1 TO TRAFFIC CONDUCT REMOVAL WORK RELATED TO TRAFFIC CALMING DEVICES IN THE REMAINING QUADRANT OF THE GLENWOOD RD AND WARWICK RD INTERSECTION WHILE MAINTAINING TRAFFIC IN THE OTHER QUADRANT.
- INSTALL REMAINING TRAFFIC CALMING DEVICES AS SHOWN ON THE PLANS.

PHASE 2 (WEST SIDE OF STREET):

- INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
- CONDUCT REMOVAL WORK RELATED TO TRAFFIC CALMING DEVICES.
- INSTALL TRAFFIC CALMING DEVICES AS SHOWN ON THE PLANS.
- COMPLETE RESTORATION AS REQUIRED. OPEN STREET TO ALL TRAFFIC UPON APPROVAL OF THE ENGINEER.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING TEMPORARY CLEANING OF STRUCTURES AND ALL OTHER NECESSARY CLEAN UP. REMOVE SESC MEASURES.
- REMOVE ALL TRAFFIC CONTROL DEVICES, NO PARKING SIGNS, AND MISS DIG FLAGS.

NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

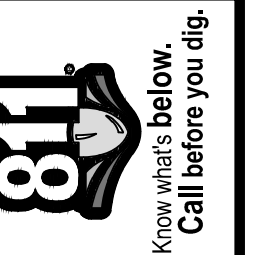
THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

QUANTITIES			
Item Code	Item Description	Unit	Quantity
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	4.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	5.000
5017011	_Raised Intersection, HMA	Syd	448.000
5017011	_Speed Hump, HMA	Syd	210.000
6027011	_Raised Intersection, Conc	Syd	448.000
6027011	_Speed Hump, Conc	Syd	210.000
8117050	_Pavt Mrkg, Polyurea, Speed Hump Chevron, White	Ea	24.000
8117050	_Pavt Mrkg, Thermopl, Speed Hump Chevron, White	Ea	24.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	7.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	7.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	100.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	100.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	302.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	302.000
8167011	_Slope Restoration	Syd	200.000
8230431	Gate Box, Adj, Case 1	Ea	1.000

QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
2.0	G20-2	End Road Work	4.500	9.000
5.0	W3-2	Yield Ahead	9.000	45.000
5.0	W1-4L	Reverse Curve (Right)	9.000	45.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
10.0	W20-4	One Lane Road Ahead	9.000	90.000
5.0	R1-2	Yield	16.000	80.000
5.0	R1-2A	To Oncoming Traffic	3.000	15.000

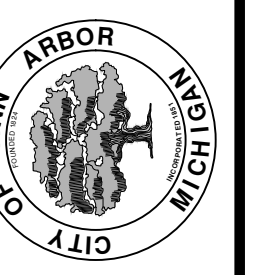
CASTING TABLE		
		FACILITY ID'S
WATER	NA	NA
SANITARY	NA	NA
STORM	NA	NA
WATER BOX	NA	NA

T:\2021004\Plan Production\Major Streets\2021004 - Glenwood Road.dwg Dwg Created: 25-Mar-21 - _a2 standard bw.stb - Plot Date: 25-Mar-21



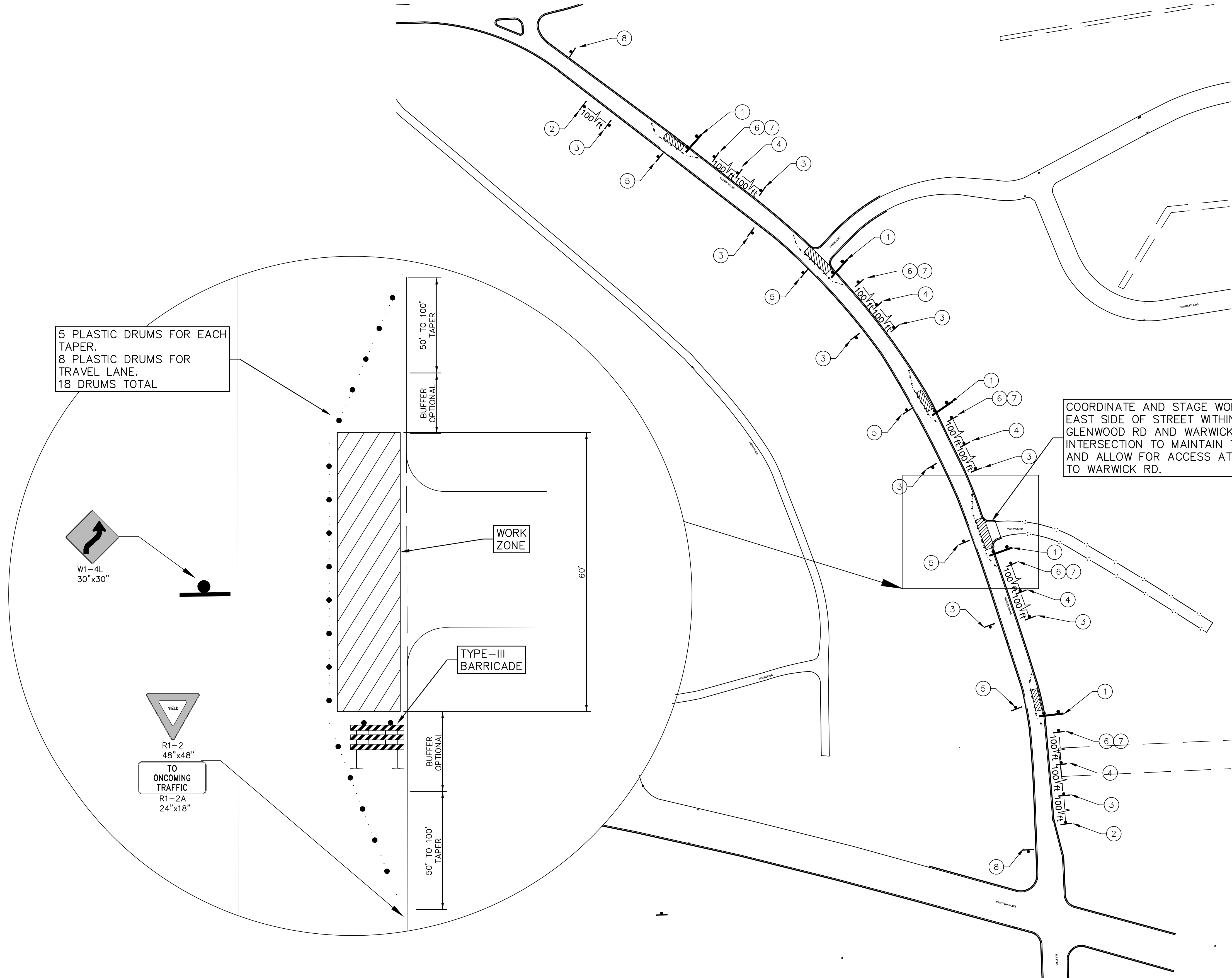
01	ADDENDUM 3	03/25/21	AG/CE/GS	DAD	CHECKED
		DATE	DRAWN		
			DESCRIPTION		

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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
GLENWOOD ROAD
SUBSET COVER SHEET

SCALE: NTS
DRAWING No.
2021-004-26



5 PLASTIC DRUMS FOR EACH TAPER.
8 PLASTIC DRUMS FOR TRAVEL LANE.
18 DRUMS TOTAL

COORDINATE AND STAGE WORK ON EAST SIDE OF STREET WITHIN THE GLENWOOD RD AND WARWICK RD INTERSECTION TO MAINTAIN TRAFFIC AND ALLOW FOR ACCESS AT ALL TIMES TO WARWICK RD.

TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
①	TYPE III BARRICADE W LIGHT	5
②	ROAD WORK AHEAD W20-1 36"x36"	2
③	ONE LANE ROAD AHEAD W20-4 36"x36"	10
④	YIELD W3-2 36"x36"	5
⑤	TO RIGHT TURN AHEAD W1-4L 36"x36"	5
⑥	YIELD R1-2 48"x48"	5
⑦	TO ONCOMING TRAFFIC R1-2A 24"x18"	5
⑧	END ROAD WORK G20-2	2

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
GLENWOOD ROAD
TRAFFIC CONTROL PHASE I

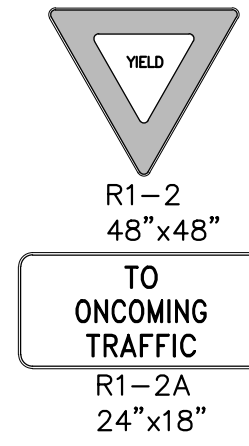
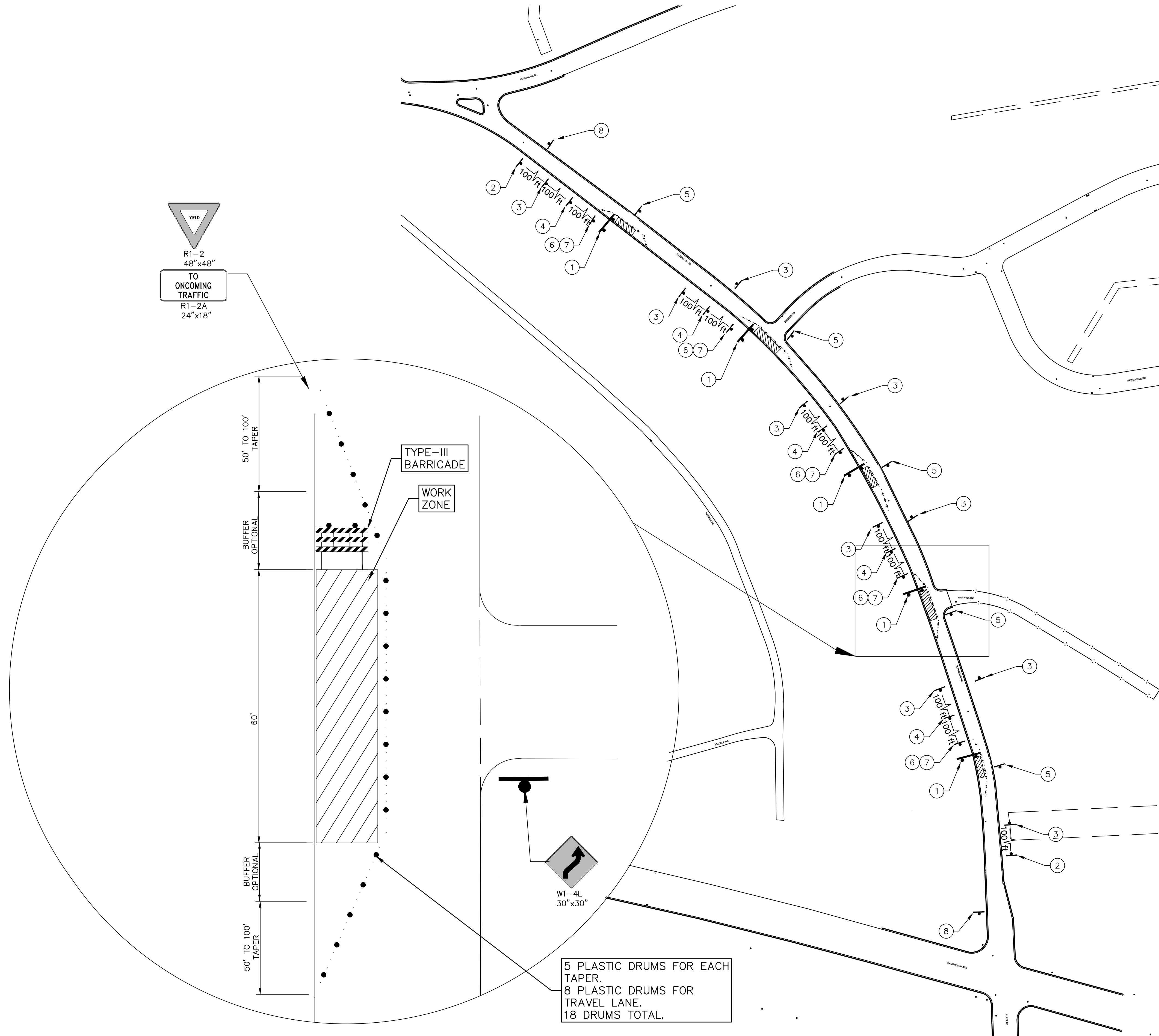
SCALE PLAN: Custom
DRAWING No. 2021-004-27

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01 <td>03/25/21 <td>JAC/CE/JS <td>DAD <td>ADDENDUM 3</td> </td></td></td>	03/25/21 <td>JAC/CE/JS <td>DAD <td>ADDENDUM 3</td> </td></td>	JAC/CE/JS <td>DAD <td>ADDENDUM 3</td> </td>	DAD <td>ADDENDUM 3</td>	ADDENDUM 3

SHEET No. 27 OF 51



TO
ONCOMING
TRAFFIC



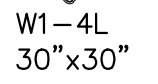
50' TO 100'
TAPER

60'

50' TO 100'
TAPER

TYPE-III
BARRICADE

WORK
ZONE



5 PLASTIC DRUMS FOR EACH
TAPER.
8 PLASTIC DRUMS FOR
TRAVEL LANE.
18 DRUMS TOTAL.

TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
①	TYPE III BARRICADE W LIGHT	5
②	ROAD WORK AHEAD W20-1 36" x 36"	2
③	ONE LANE ROAD AHEAD W20-4 36" x 36"	10
④	YIELD W3-2 36" x 36"	5
⑤	ONE LANE ROAD AHEAD W1-4L 30" x 30"	5
⑥	YIELD R1-2 48" x 48"	5
⑦	TO ONCOMING TRAFFIC R1-2A 24" x 18"	5
⑧	END ROAD WORK G20-2	2



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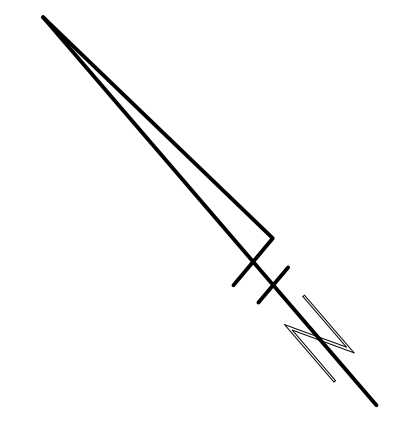
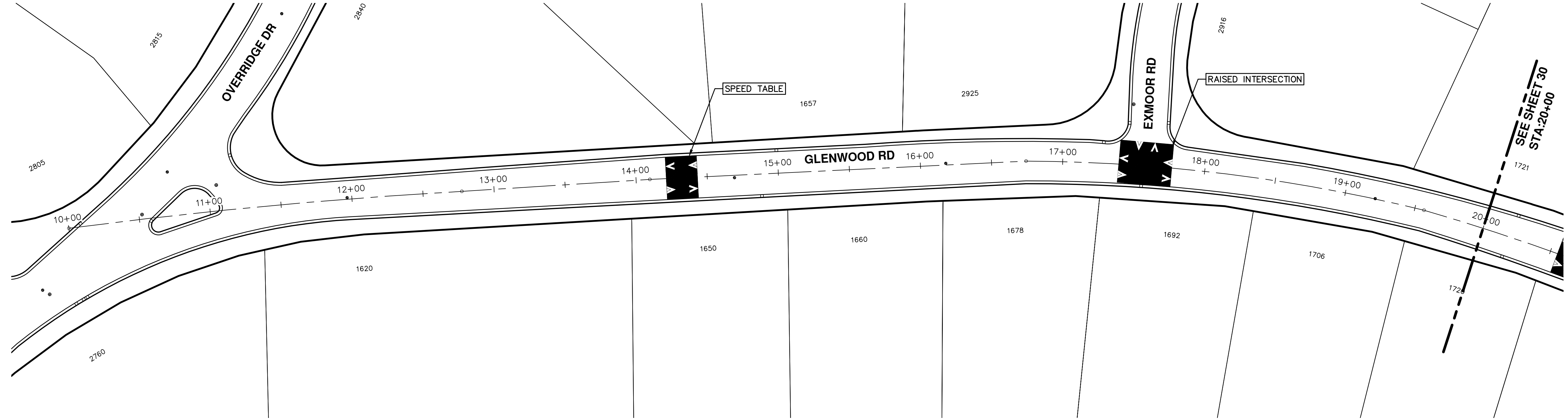
REV.	DATE	BY	DESCRIPTION
01	03/25/21	JAC/CE/JS	DRAWN
			CHECKED

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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
GLENWOOD ROAD
TRAFFIC CONTROL PHASE II

SCALE PLAN: Custom
DRAWING No. 2021-004-28



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
 GLENWOOD ROAD
 STA. 10+00 - STA. 20+00

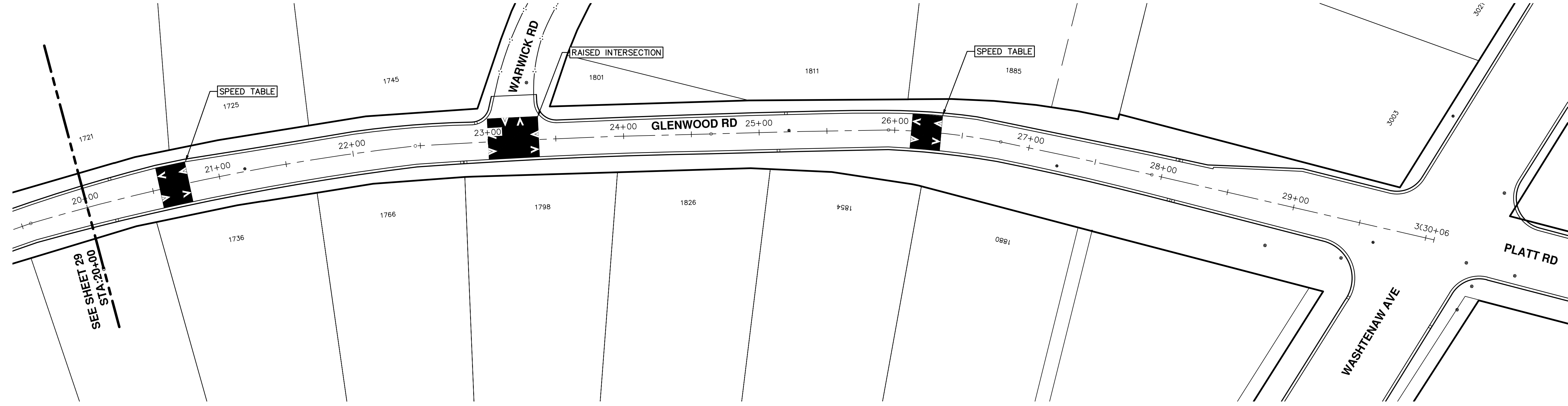
SCALE PLAN: 1"=40'
 DRAWING No. 2021-004-29

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REV.	DATE	DESCRIPTION
01	03/25/21	ADDENDUM 3

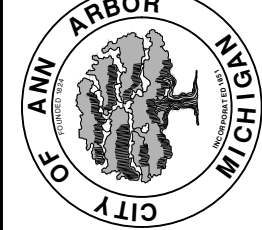
DRAWN	CHECKED
JAC/CE/JS	DAD

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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=40'
 DRAWING No. 2021-004-30

STREET RESURFACING PROJECT - 2021
 GLENWOOD ROAD
 STA. 20+00 - STA. 30+06



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REV.	DATE	DESCRIPTION
01	03/25/21	ADDENDUM 3

DRAWN	CHECKED
AG/CE/GS	DAD





CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: S INDUSTRIAL HWY

ITB No. 4667 FILE No. 2021-004

CONSTRUCTION SCOPE AND SEQUENCE

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ACTIVITIES LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS. COORDINATE WORK WITH THAT FOR THE SOUTH INDUSTRIAL HIGHWAY CONCRETE PAVEMENT REPAIRS PROJECT SO THAT IT COINCIDES WITH ITS CONSTRUCTION PHASING AND WITH NO OR MINIMAL DISRUPTION.

PHASE 1 (EAST SIDE OF ROAD):

- IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN BY SUPPLEMENTING TEMPORARY TRAFFIC CONTROL MEASURES IN PLACE FOR THE SOUTH INDUSTRIAL HIGHWAY CONCRETE PAVEMENT REPAIRS PROJECT WITH THOSE NECESSARY TO ACCOMPLISH HMA PAVING WORK UP TO LEVELING COURSE.
- TEMPORARY LOWER EXISTING UTILITY STRUCTURE COVERS INCLUDING GATE AND MONUMENT BOXES
- REMOVE EXISTING HMA SURFACE (±4 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE ADDITIONAL HMA REMOVAL AND/OR BASE REPAIRS TO A DEPTH DETERMINED BY THE ENGINEER.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (4E3). PLACE HMA MATERIAL IN A MANNER THAT KEEPS ALL PAVING EQUIPMENT AND TRUCKS OFF THE CONCRETE PAVEMENT.
- ADJUST ALL UTILITY STRUCTURE COVERS TO THEIR FINISHED ELEVATIONS AS REQUIRED.

PHASE 2 (WEST SIDE OF ROAD):

- IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN BY SUPPLEMENTING TEMPORARY TRAFFIC CONTROL MEASURES IN PLACE FOR THE SOUTH INDUSTRIAL HIGHWAY CONCRETE PAVEMENT REPAIRS PROJECT WITH THOSE NECESSARY TO ACCOMPLISH HMA PAVING WORK UP TO LEVELING COURSE. COORDINATE NECESSARY TRAFFIC SIGNAL MODIFICATIONS WITH THE CITY'S S SIGN AND SIGNAL UNIT.
- REPEAT ITEMS 2 THRU 5 IN THE ORDER SHOWN ABOVE.

PHASE 3 (BOTH SIDES OF ROAD):

- IMPLEMENT A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN THAT ACCOMPLISHES HMA TOP COURSE PAVING WORK BY MAINTAINING A MINIMUM OF ONE TRAFFIC LANE IN EACH DIRECTION. COMPLETE TOP COURSE PAVING BY WORKING FROM OUTSIDE LANES INWARD TO CENTER LANES. COORDINATE NECESSARY TRAFFIC SIGNAL MODIFICATIONS WITH THE CITY'S S SIGN AND SIGNAL UNIT.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH TOP COURSE HMA MIX (4E3). PLACE HMA MATERIAL IN A MANNER THAT KEEPS ALL PAVING EQUIPMENT AND TRUCKS OFF THE CONCRETE PAVEMENT.
- OPEN STREET TO ALL TRAFFIC UPON APPROVAL OF THE ENGINEER.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
- REMOVE ALL MISS DIG MARKERS, AND TEMPORARY TRAFFIC CONTROL DEVICES.

NOTES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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QUANTITIES			
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	1.000
2030015	Sewer, Rem, Less than 24 inch	Ft	10.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	20.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	7.000
2057011	_Grading, Sidewalk Ramp	Syd	1.000
2057011	_Machine Grading, Special	Syd	2,561.000
2057021	_Undercutting, Type IIA	Cyd	85.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	10.000
4021260	Trench Undercut and Backfill	Cyd	3.000
4030200	Dr Structure, 24 inch dia	Ea	1.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	1.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	5.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	6.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	10.000
5010002	Cold Milling HMA Surface	Syd	2,561.000
5010005	HMA Surface, Rem	Syd	2.000
5010051	HMA, 4E3	Ton	592.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	20.000
8037001	_Detectable Warning Surface, Modified	Ft	5.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	7.000
8110332	Rem Raised Pavt Marker	Ea	4.000
8120141	Lighted Arrow, Type C, Oper	Ea	2.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	43.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	43.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	110.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	110.000
8230431	Gate Box, Adj, Case 1	Ea	1.000

QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
2.0	G20-2	End Road Work	4.500	9.000
2.0	W3-5B	Reduce Speed Zone	9.000	18.000
2.0	W4-2R	Lane Ends / Right	9.000	18.000
2.0	W20-5R	Right Lane Closed Ahead	9.000	18.000
2.0	R2-1	Speed Limit	7.500	15.000
2.0	R5-18C	Work Zone Begins	16.000	32.000

CASTING TABLE		
		FACILITY ID'S
WATER	NA	NA
SANITARY	NA	NA
STORM	NA	NA
WATER BOX	NA	NA

T:\2021004\Plan Production\Major Streets\2021004 - S Industrial Hwy.dwg Dwg Created: 10-Mar-21 - _a2 standard bw.stb - Plot Date: 25-Mar-21

811
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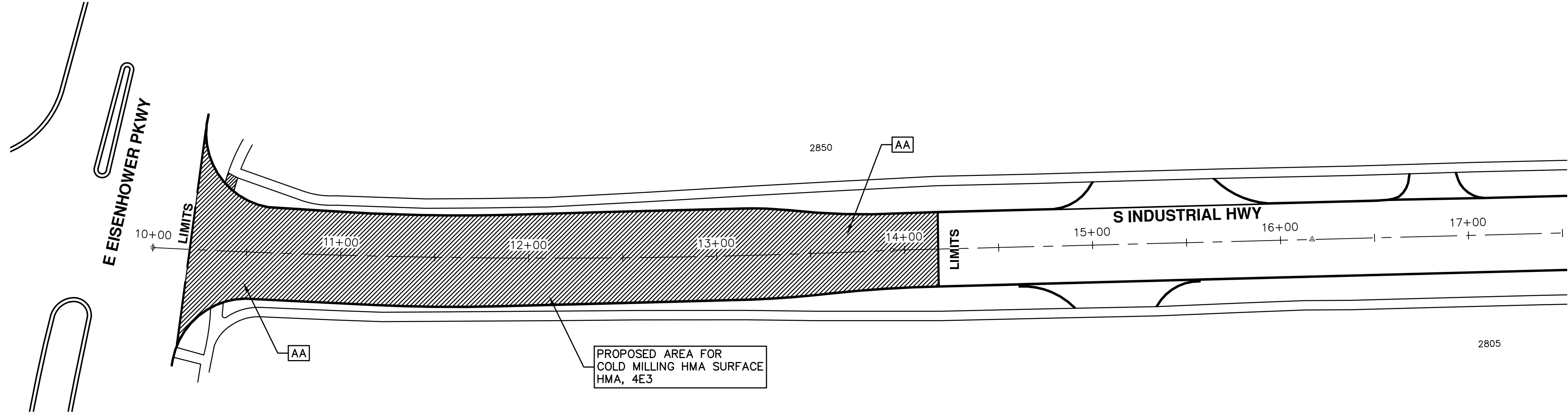
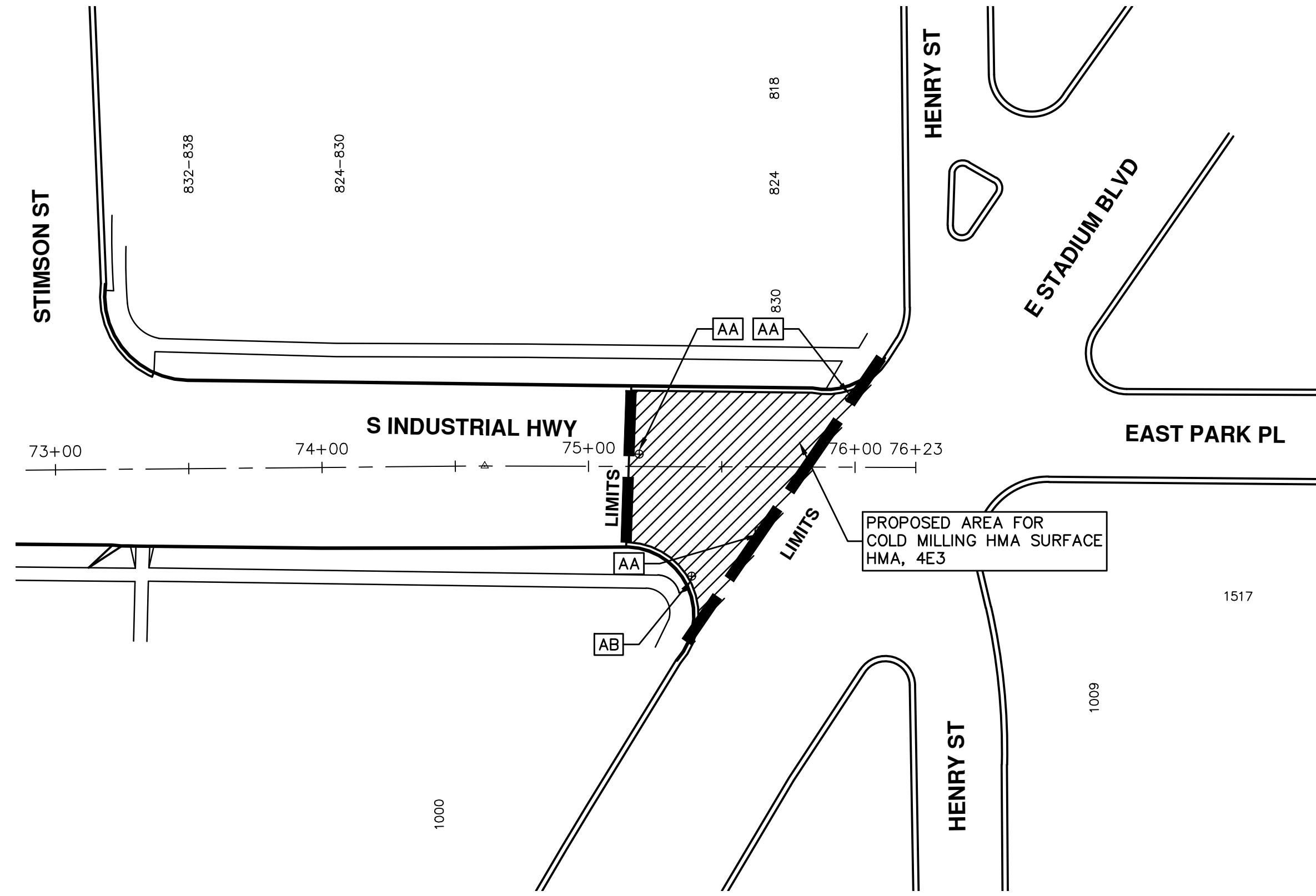
		03/25/21	AG/CE/OS	DAD
		DATE	DRAWN	CHECKED
		ADDENDUM 3	DESCRIPTION	
01				REV.

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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
S INDUSTRIAL HWY
SUBSET COVER SHEET

SCALE PLAN: #####
DRAWING No. 2021-004-31
SHEET No.

31 OF 51



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=80'
 DRAWING No. 2021-004-32

STREET RESURFACING PROJECT - 2021
 S INDUSTRIAL HWY
 STA. 10+00 - STA. 17+50 & STA. 73+00 - STA. 76+23



CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-8647
 www.a2gov.org

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM 3	03/25/21	AG/CE/JS	DAD

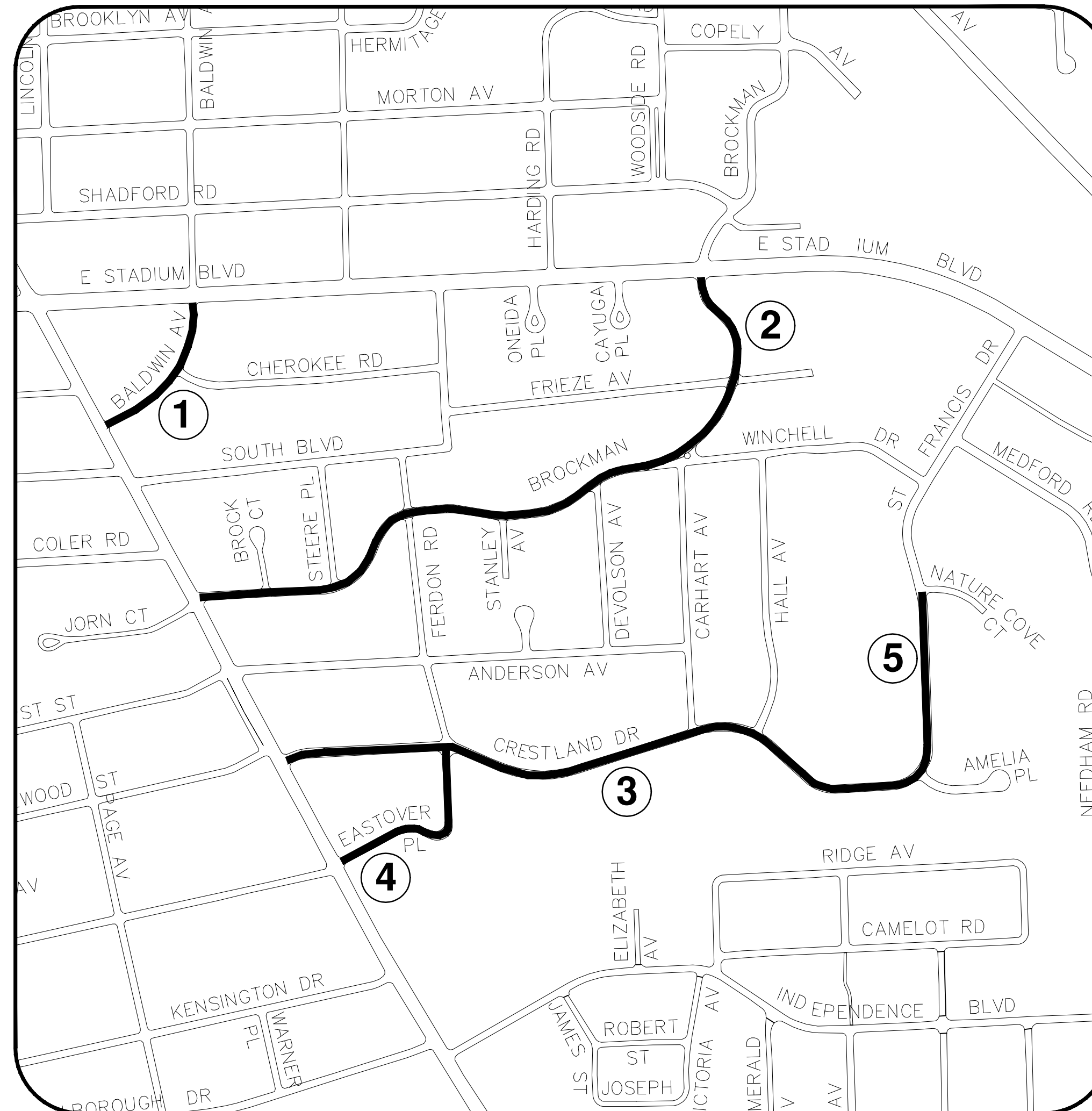
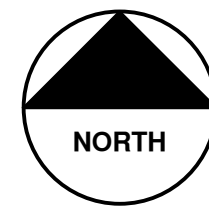




CITY OF ANN ARBOR ENGINEERING

STREET RESURFACING PROJECT - 2021 PHASE 1

ITB No. 4667 FILE No. 2021-004



SHEET INDEX

SHEET NO.	TITLE	MAP INDEX NO. (THIS SHEET)
32	BALDWIN AVENUE	1
33	BROCKMAN BOULEVARD	2
35	CRESTLAND STREET	3
36	EASTOVER PLACE	4
38	SAINT FRANCIS DRIVE	5

NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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T:\2021004\Plan Production\2021004 - Phase 1 Cover Sheet.dwg Dwg Created: 3-Mar-21 - _a2 standard bw.stb - Plot Date: 25-Mar-21



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM 3	03/25/21	JAC/CE/GS	DAD

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
734.794.4410
www.a2gov.org



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
PHASE 1
PHASE 1 COVER SHEET

SCALE: NTS
DRAWING No.
2021-004-33



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: BROCKMAN BOULEVARD

QUANTITIES			
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	10.000
2030015	Sewer, Rem, Less than 24 inch	Ft	100.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1,400.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	1,021.000
2057011	_Grading, Driveway Approach	Syd	514.000
2057011	_Grading, Sidewalk	Syd	28.000
2057011	_Grading, Sidewalk Ramp	Syd	32.000
2057011	_Machine Grading, Special	Syd	10,233.000
2057021	_Undercutting, Type IIA	Cyd	319.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	25.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	100.000
4021260	Trench Undercut and Backfill	Cyd	30.000
4030200	Dr Structure, 24 inch dia	Ea	10.000
4030280	Dr Structure, Adj, Add Depth	Ft	1.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	20.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	12.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	27.000
4037050	_Dr Structure, Adj, Case 2, Modified	Ea	1.000
4037050	_Dr Structure, Cleaning, Modified	Ea	1.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	35.000
4037050	_Structure, Reconstruct	Ea	1.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	110.000
4047001	_Yard Drain, Outlet Ending, Plastic Pipe	Ft	1.000
4047050	_Yard Drain, Outlet Ending, Pop-up Apparatus	Ea	1.000
5010002	Cold Milling HMA Surface	Syd	10,233.000
5010005	HMA Surface, Rem	Syd	310.000
5010025	Hand Patching	Ton	18.000
5010061	HMA Approach	Ton	76.000
5010703	HMA, LVSP	Ton	2,213.000
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	725.000
5017031	_HMA, Wedging, 36A	Ton	9.000
6027021	_Flowable Fill	Cyd	26.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	514.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	825.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	575.000
8030030	Curb Ramp Opening, Conc	Ft	48.000
8037001	_Detectable Warning Surface, Modified	Ft	40.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	287.000
8037010	_Sidewalk, Conc or Clay Brick Pavers, Rem and Reinstall	Sft	30.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	250.000
8110092	Pavt Mrkg, Polyurea, 4 inch, Yellow	Ft	360.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	310.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	45.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	11.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	11.000
8120141	Lighted Arrow, Type C, Oper	Ea	2.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	75.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	75.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	78.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	78.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	60.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	60.000
8127050	_Temporary No Parking Sign	Ea	83.000
8167011	_Slope Restoration	Syd	25.000
8230431	Gate Box, Adj, Case 1	Ea	10.000
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	6.000

ITB No. 4667 FILE No. 2021-004

QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
15.0	*D3-1	Street Name Sign	4.000	60.000
2.0	G20-2	End Road Work	4.500	9.000
1.0	W1-4L	Reverse Curve (Left)	9.000	9.000
1.0	W1-4R	Reverse Curve (Right)	9.000	9.000
2.0	W1-6L	Shift arrow Left	9.000	18.000
2.0	W1-6R	Shift arrow Right	9.000	18.000
2.0	W3-5B	Reduce Speed Zone	9.000	18.000
1.0	W4-2R	Lane Ends / Right	9.000	9.000
15.0	W20-1	Road Work Ahead Sign	9.000	135.000
1.0	W20-5A	Center Lane Closed Ahead	9.000	9.000
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000
4.0	R2-1	Speed Limit	7.500	30.000
4.0	R5-18C	Work Zone Begins	16.000	64.000
11.0	R11-3a	Road Closed Local Traffic Only	12.500	138.000
TOTAL				535.000

CASTING TABLE		
		FACILITY ID'S
WATER	3	HV-00002/01-07549/01-00732
SANITARY	11	71-69166/ 71-69167/ 71-69884/ 71-69786/ 71-69787/ 71-69788/ 71-69750/71-69507/ 71-69502/ 71-69501/ 71-62379
STORM	4	92-58386/ 92-59060/ 92-59002/ 92-50727
WATER BOX	11	01-07589/ 01-07587/ 01-07588/ 01-01946/ 01-07582/01-06989/ 01-01907/ 01-07581/ 01-07583/ 01-08447/ 01-01875

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

- INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE ALL OF THE EXISTING HMA SURFACE (APPROXIMATELY 4 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE REMOVAL OF THE ROAD BASE MATERIAL TO A DEPTH DETERMINED BY THE ENGINEER.
- PROOF ROLL AND PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DETERMINED BY THE ENGINEER.
- PLACE AGGREGATE BASE MATERIAL AS REQUIRED AND DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- UPON APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (LEVELING COURSE) AS REQUIRED.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH TOP COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (TOP COURSE) AS REQUIRED.
- CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING (DRIVEWAYS) AS REQUIRED.
- OPEN STREET TO ALL TRAFFIC UPON APPROVAL OF THE ENGINEER.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
- REMOVE ALL SESC MEASURES.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING TEMPORARY CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES, NO PARKING SIGNS, AND MISS DIG FLAGS.

NOTES:

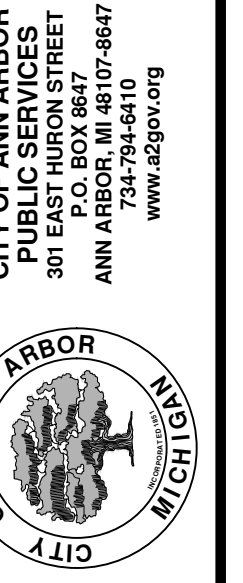
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01	ADDENDUM 3	03/25/21	AG/CE/OS	DAD	CHECKED
		DATE			DRAWN



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
 STREET RESURFACING PROJECT - 2021
 BROCKMAN BOULEVARD
 SUBSET COVER SHEET

SCALE PLAN: #####
 DRAWING NO: 2021-004-35



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: CRESTLAND STREET

QUANTITIES			
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	12.000
2030015	Sewer, Rem, Less than 24 inch	Ft	120.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1,266.000
2047001	_Exploratory Excavation, Vertical	Ft	3.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	484.000
2057011	_Grading, Driveway Approach	Syd	73.000
2057011	_Grading, Sidewalk	Syd	42.000
2057011	_Grading, Sidewalk Ramp	Syd	29.000
2057011	_Machine Grading, Special	Syd	9,356.000
2057021	_Undercutting, Type IIIA	Cyd	278.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	20.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	120.000
4021260	Trench Undercut and Backfill	Cyd	36.000
4030200	Dr Structure, 24 inch dia	Ea	12.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	29.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	13.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	32.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	34.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	120.000
4047001	_Yard Drain, Outlet Ending, Plastic Pipe	Ft	2.000
5010002	Cold Milling HMA Surface	Syd	9,356.000
5010005	HMA Surface, Rem	Syd	141.000
5010025	Hand Patching	Ton	16.000
5010061	HMA Approach	Ton	117.000
5010703	HMA, LVSP	Ton	1,929.000
6027021	_Flowable Fill	Cyd	23.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	72.000
8017011	_Driveway, Nonreinf Conc, 8 inch, Modified	Syd	2.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	601.000
8027001	_Curb and Gutter, Conc, Mountable	Ft	122.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	519.000
8030030	Curb Ramp Opening, Conc	Ft	24.000
8037001	_Detectable Warning Surface, Modified	Ft	20.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	264.000
8037010	_Sidewalk, Conc or Clay Brick Pavers, Rem and Reinstall	Sft	6.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	381.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	282.000
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	208.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	104.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	6.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	6.000
8120035	Channelizing Device, 42 inch, Fluorescent, Furn	Ea	25.000
8120036	Channelizing Device, 42 inch, Fluorescent, Oper	Ea	25.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	74.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	74.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	67.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	67.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000
8127050	_Temporary No Parking Sign	Ea	75.000
8167011	_Slope Restoration	Syd	25.000
8230431	Gate Box, Adj, Case 1	Ea	3.000

ITB No. 4667 FILE No. 2021-004

QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
2.0	*D3-1	Street Name Sign	4.000	8.000
2.0	G20-2	End Road Work	4.500	9.000
1.0	W1-4L	Reverse Curve (Left)	9.000	9.000
1.0	W1-4L	Reverse Curve (Right)	9.000	9.000
2.0	W1-6L	Shift arrow Left	9.000	18.000
2.0	W1-6R	Shift arrow Right	9.000	18.000
2.0	W3-5B	Reduce Speed Zone	9.000	18.000
6.0	W20-1	Road Work Ahead Sign	9.000	54.000
0.0	W20-2	Detour Ahead	9.000	0.000
1.0	W20-5A	Center Lane Closed Ahead	9.000	9.000
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000
2.0	R2-1	Speed Limit	7.500	15.000
2.0	R5-18C	Work Zone Begins	16.000	32.000
6.0	R11-3a	Road Closed Local Traffic Only	12.500	75.000
		TOTAL		283.000

CASTING TABLE		
		FACILITY ID'S
WATER	1	01-00449
SANITARY	16	71-69096/ 71-69862/ 71-69864/ 71-69760/ 71-69749/ 71-69748/ 71-69747/ 71-69746/ 71-69456/ 71-69457/ 71-62246/ 71-62324/ 71-62323/ 71-62321/ 71-62322/ 71-62320
		92-58978/ 92-58979/ 92-58968/ 92-58980/ 92-58969/ 92-58960/ 92-50617/ 92-50629/ 92-50618/ 92-50633/ 92-50635/
		01-07575/ 01-07572/ 01-07573
WATER BOX	3	

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

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- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARILY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE ALL OF THE EXISTING HMA SURFACE (APPROXIMATELY 4 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE REMOVAL OF THE ROAD BASE MATERIAL TO A DEPTH DETERMINED BY THE ENGINEER.
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- PLACE AGGREGATE BASE MATERIAL AS REQUIRED AND DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- UPON APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (LEVELING COURSE) AS REQUIRED.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH TOP COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (TOP COURSE) AS REQUIRED.
- CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING (DRIVEWAYS) AS REQUIRED.
- OPEN STREET TO ALL TRAFFIC UPON APPROVAL OF THE ENGINEER.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
- REMOVE ALL SESC MEASURES.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING TEMPORARY CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES, NO PARKING SIGNS, AND MISS DIG FLAGS.

NOTES:

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01	ADDENDUM 3	REV.
	DATE	
	AG/CE/GS	DRAWN
	DAD	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
PO BOX 8647
ANN ARBOR MI 48107-8647
www.aagov.org

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
CRESTLAND STREET
SUBSET COVER SHEET

SCALE: NTS
DRAWING NO.
2021-004-36

T:\2021004\Plan Production\2021004 - Crestland Street.dwg Dwg Created: 9-Mar-21 - 02 standard bw.stb - Plot Date: 25-Mar-21



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: EASTOVER PLACE

ITB No. 4667 FILE No. 2021-004

QUANTITIES			
Item Code	Item Description	Unit	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	104.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	18.000
2057011	_Grading, Driveway Approach	Syd	18.000
2057011	_Machine Grading, Special	Syd	1,040.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	5.000
5010002	Cold Milling HMA Surface	Syd	1,040.000
5010005	HMA Surface, Rem	Syd	12.000
5010025	Hand Patching	Ton	1.000
5010703	HMA, LVSP	Ton	91.000
6027021	_Flowable Fill	Cyd	2.000
8017011	_Driveway, Nonreinf Conc, 8 inch, Modified	Syd	18.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	20.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	84.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120035	Channelizing Device, 42 inch, Fluorescent, Furn	Ea	28.000
8120036	Channelizing Device, 42 inch, Fluorescent, Oper	Ea	28.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	5.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	5.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	148.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	148.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000
8127050	_Temporary No Parking Sign	Ea	12.000
8167011	_Slope Restoration	Syd	42.000
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	1.000

QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
2.0	*D3-1	Street Name Sign	4.000	8.000
2.0	G20-2	End Road Work	4.500	9.000
1.0	W1-4L	Reverse Curve (Left)	9.000	9.000
1.0	W1-4R	Reverse Curve (Right)	9.000	9.000
2.0	W1-6L	Shift arrow Left	9.000	18.000
2.0	W1-6R	Shift arrow Right	9.000	18.000
2.0	W3-5B	Reduce Speed Zone	9.000	18.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
1.0	W20-5A	Center Lane Closed Ahead	9.000	9.000
2.0	R2-1	Speed Limit	7.500	15.000
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000
		TOTAL		156.000

CASTING TABLE		
		FACILITY ID'S
WATER	NA	NA
SANITARY	NA	NA
STORM	NA	NA
WATER BOX	NA	NA

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

- INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- REMOVE EXISTING HMA SURFACE (APPROXIMATELY 2 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE ADDITIONAL HMA REMOVAL AND/OR BASE REPAIRS TO A DEPTH DETERMINED BY THE ENGINEER.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH TOP COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES AS REQUIRED.
- CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING (DRIVEWAYS) AS REQUIRED.
- OPEN STREET TO ALL TRAFFIC UPON APPROVAL OF THE ENGINEER.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
- REMOVE SESC MEASURES.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING TEMPORARY CLEANING OF STRUCTURES AND ALL OTHER NECESSARY CLEAN UP, FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES, NO PARKING SIGNS, AND MISS DIG FLAGS.

NOTES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

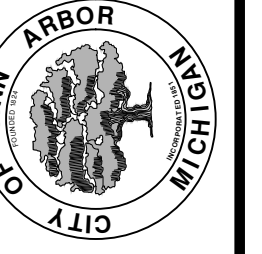
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.



REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	03/25/21	ADDENDUM 3		

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
734.794.4410
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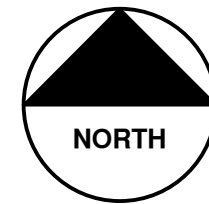
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
EASTOVER PLACE
SUBSET COVER SHEET

SCALE: NTS
DRAWING No. 2021-004-37

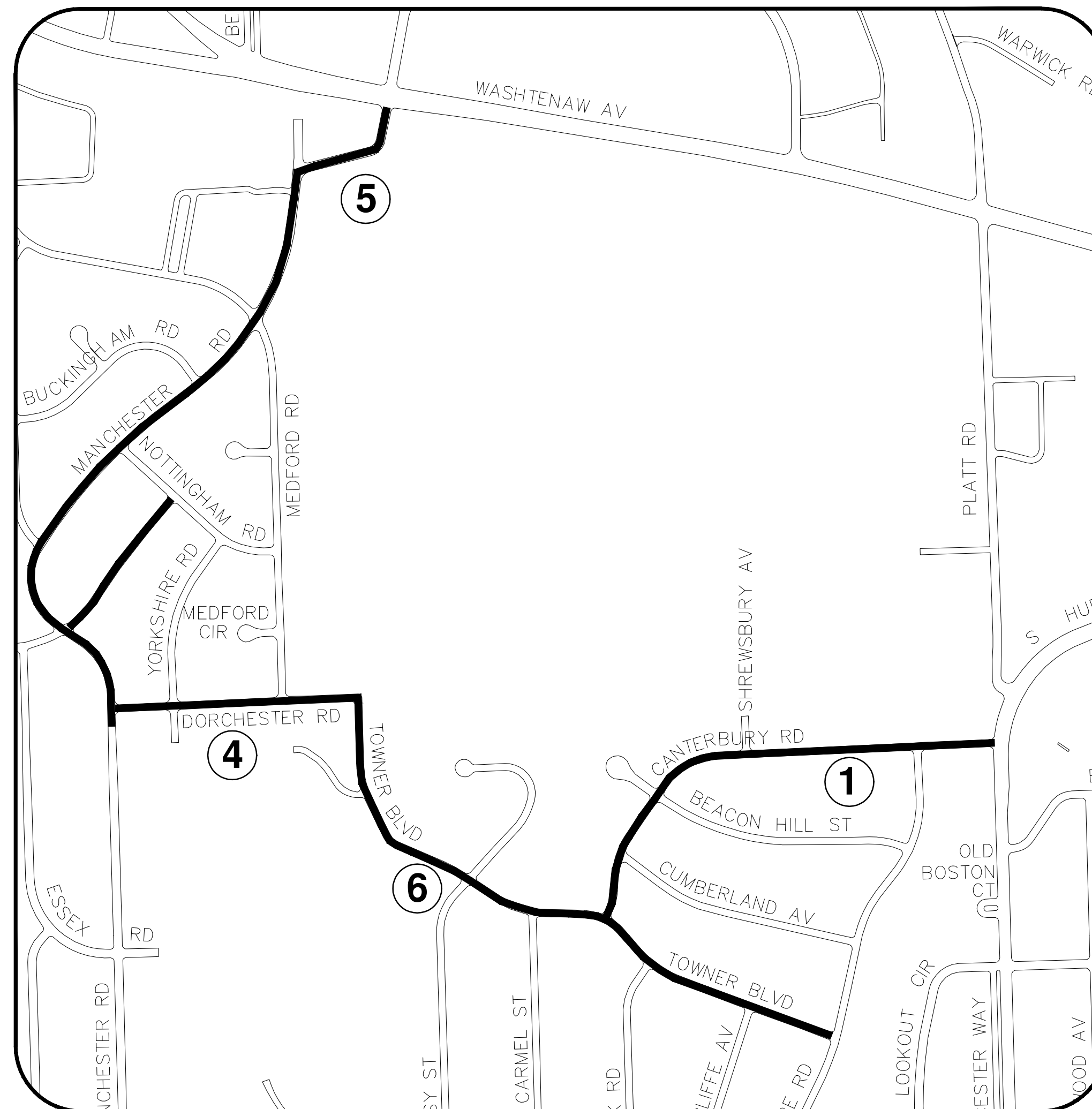
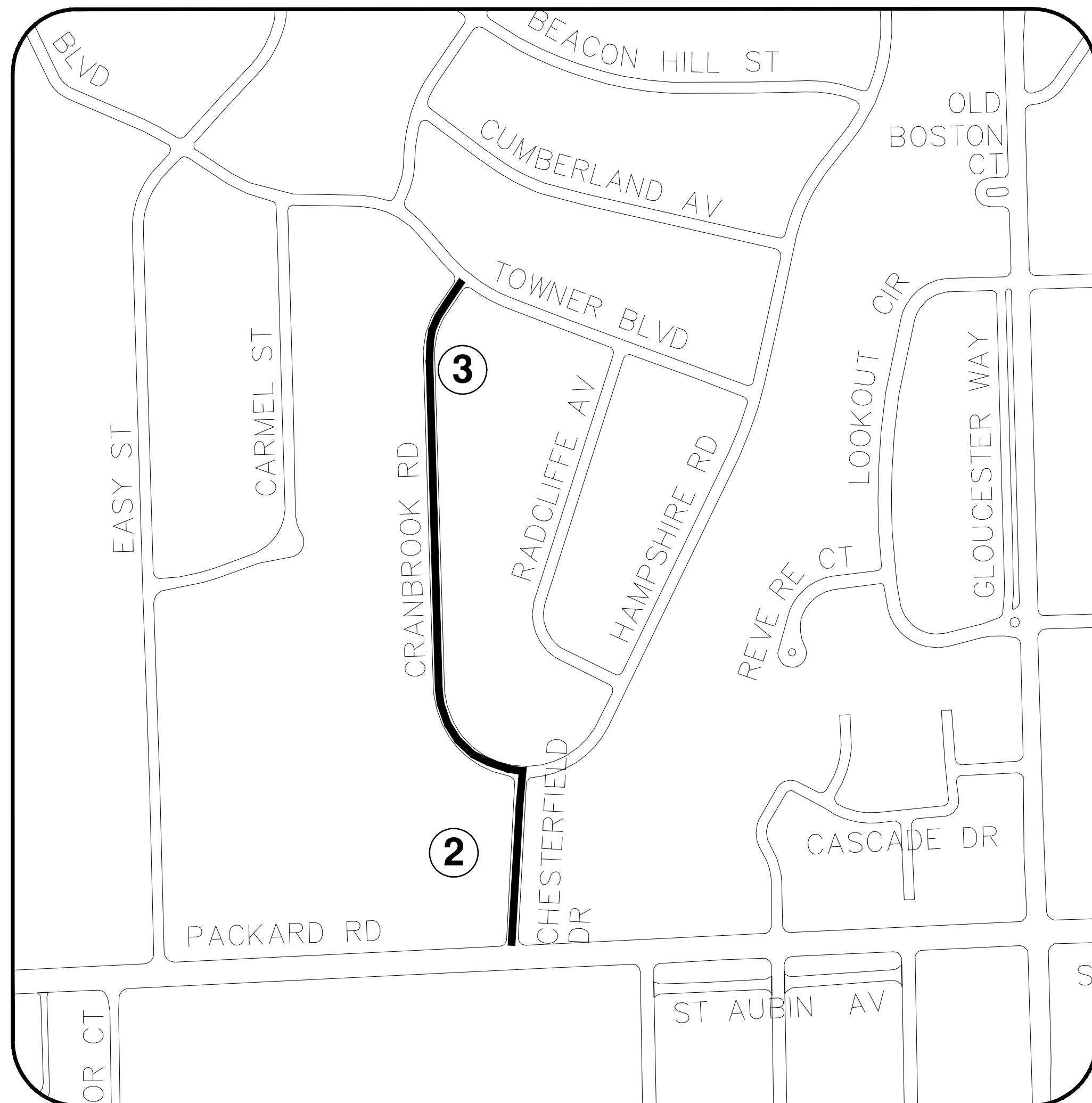


CITY OF ANN ARBOR ENGINEERING

STREET RESURFACING PROJECT - 2021 PHASE 2



ITB No. 4667 FILE No. 2021-004



SHEET INDEX

SHEET NO.	TITLE	MAP INDEX NO. (THIS SHEET)
40	CANTERBURY ROAD	1
41	CHESTERFIELD	2
42	CRANBROOK	3
43	DORCHESTER ROAD	4
44	MANCHESTER ROAD	5
45	TOWNER BLVD	6

NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

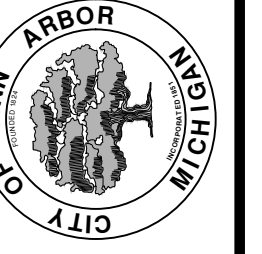
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM 3	03/25/21	JAC/CE/OS	DAD

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
PHASE 2
PHASE 2 COVER SHEET

SCALE: NTS
DRAWING No.
2021-004-39



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: CANTERBURY ROAD

QUANTITIES			
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	10.000
2030015	Sewer, Rem, Less than 24 inch	Ft	100.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1,317.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	385.000
2057011	_Grading, Driveway Approach	Syd	299.000
2057011	_Grading, Sidewalk	Syd	11.000
2057011	_Grading, Sidewalk Ramp	Syd	51.000
2067050	Erosion Control, Inlet Protection, Fabric Drop	Ea	21.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	100.000
4021260	Trench Undercut and Backfill	Cyd	30.000
4030200	Dr Structure, 24 inch dia	Ea	10.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	11.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	10.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	100.000
4047001	_Yard Drain, Outlet Ending, Plastic Pipe	Ft	1.000
4047050	_Yard Drain, Outlet Ending, Pop-up Apparatus	Ea	1.000
5010002	Cold Milling HMA Surface	Syd	5,870.000
5010005	HMA Surface, Rem	Syd	293.000
5010025	Hand Patching	Ton	34.000
5010061	HMA Approach	Ton	21.000
5010703	HMA, LVSP	Ton	658.000
5017011	_Raised Crosswalk, HMA	Syd	61.000
5017011	_Raised Intersection, HMA	Syd	654.000
5017011	_Speed Hump, HMA	Syd	40.000
6027011	_Raised Crosswalk, Conc	Syd	61.000
6027011	_Raised Intersection, Conc	Syd	654.000
6027011	_Speed Hump, Conc	Syd	40.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	299.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	561.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	727.000
8030030	Curb Ramp Opening, Conc	Ft	60.000
8037001	_Detectable Warning Surface, Modified	Ft	50.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	455.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	50.000
8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	50.000
8117050	_Pavt Mrkg, Polyurea, Speed Hump Chevron, White	Ea	18.000
8117050	_Pavt Mrkg, Thermopl, Speed Hump Chevron, White	Ea	18.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	5.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	5.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	78.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	78.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	227.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	227.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	24.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	24.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	4.000
8127050	_Temporary No Parking Sign	Ea	59.000
8167011	_Slope Restoration	Syd	360.000
8230431	Gate Box, Adj, Case 1	Ea	3.000
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	29.000

ITB No. 4667 FILE No. 2021-004

QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
6.0	*D3-1	Street Name Sign	4.000	24.000
2.0	G20-2	End Road Work	4.500	9.000
2.0	W3-5B	Reduce Speed Zone	9.000	18.000
1.0	W4-2R	Lane Ends / Right	9.000	9.000
1.0	W1-6L	Shift arrow Left	9.000	9.000
1.0	W1-6R	Shift arrow Right	9.000	9.000
6.0	W20-1	Road Work Ahead Sign	9.000	54.000
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000
2.0	R2-1	Speed Limit	7.500	15.000
2.0	R5-18C	Work Zone Begins	16.000	32.000
5.0	R11-3a	Road Closed Local Traffic Only	12.500	63.000
		TOTAL		251.000

CASTING TABLE		
		FACILITY ID'S
WATER	NA	NA
SANITARY	NA	NA
STORM	NA	NA
WATER BOX	NA	NA

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

- INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE ALL OF THE EXISTING HMA SURFACE (APPROXIMATELY 4 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE REMOVAL OF THE ROAD BASE MATERIAL TO A DEPTH DETERMINED BY THE ENGINEER.
- PROOF ROLL AND PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DETERMINED BY THE ENGINEER.
- PLACE AGGREGATE BASE MATERIAL AS REQUIRED AND DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- UPON APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (LEVELING COURSE) AS REQUIRED.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH TOP COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (TOP COURSE) AS REQUIRED.
- CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING (DRIVEWAYS) AS REQUIRED.
- OPEN STREET TO ALL TRAFFIC UPON APPROVAL OF THE ENGINEER.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
- REMOVE ALL SESC MEASURES.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING TEMPORARY CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES, NO PARKING SIGNS, AND MISS DIG FLAGS.

NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.



01	ADDENDUM 3	REV.
	DATE	DRAWN
	AG/CE/GS	CHECKED
	DAD	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
PO BOX 8647
ANN ARBOR MI 48107-8647
www.aagov.org



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
CANTERBURY ROAD
SUBSET COVER SHEET

SCALE: NTS
DRAWING No.
2021-004-40



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: CHESTERFIELD STREET

ITB No. 4667 FILE No. 2021-004

QUANTITIES			
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	1.000
2030015	Sewer, Rem, Less than 24 inch	Ft	10.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	140.000
2047001	_Exploratory Excavation, Vertical	Ft	2.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	31.000
2057011	_Grading, Sidewalk	Syd	19.000
2057011	_Grading, Sidewalk Ramp	Syd	12.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	3.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	10.000
4021260	Trench Undercut and Backfill	Cyd	3.000
4030200	Dr Structure, 24 inch dia	Ea	1.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	1.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	10.000
5010002	Cold Milling HMA Surface	Syd	1,228.000
5010005	HMA Surface, Rem	Syd	31.000
5010025	Hand Patching	Ton	4.000
5010703	HMA, LVSP	Ton	107.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	123.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	5.000
8030030	Curb Ramp Opening, Conc	Ft	12.000
8037001	_Detectable Warning Surface, Modified	Ft	10.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	107.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	175.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	105.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	13.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	6.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	6.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	153.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	153.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.000
8127050	_Temporary No Parking Sign	Ea	13.000
8167011	_Slope Restoration	Syd	25.000
8230431	Gate Box, Adj, Case 1	Ea	1.000

QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
4.0	*D3-1	Street Name Sign	4.000	16.000
2.0	G20-2	End Road Work	4.500	9.000
2.0	W3-5B	Reduce Speed Zone	9.000	18.000
1.0	W4-2R	Lane Ends / Right	9.000	9.000
4.0	W20-1	Road Work Ahead Sign	9.000	36.000
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000
2.0	R2-1	Speed Limit	7.500	15.000
2.0	R5-18C	Work Zone Begins	16.000	32.000
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000
		TOTAL		169.000

CASTING TABLE		
		FACILITY ID'S
WATER	NA	NA
SANITARY	NA	NA
STORM	NA	NA
WATER BOX	NA	NA

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

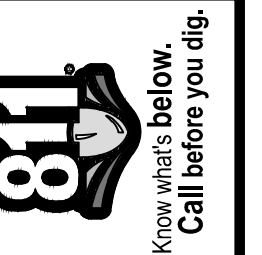
- INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- REMOVE EXISTING HMA SURFACE (APPROXIMATELY 2 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE ADDITIONAL HMA REMOVAL AND/OR BASE REPAIRS TO A DEPTH DETERMINED BY THE ENGINEER.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH TOP COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES AS REQUIRED.
- CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING (DRIVEWAYS) AS REQUIRED.
- OPEN STREET TO ALL TRAFFIC UPON APPROVAL OF THE ENGINEER.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
- REMOVE SESC MEASURES.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING TEMPORARY CLEANING OF STRUCTURES AND ALL OTHER NECESSARY CLEAN UP, FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES, NO PARKING SIGNS, AND MISS DIG FLAGS.

NOTES

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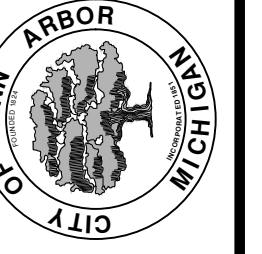
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REV	DATE	DESCRIPTION	DRAWN	CHECKED
01	03/25/21	ADDENDUM 3		

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
www.aagov.org



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
CHESTERFIELD STREET
SUBSET COVER SHEET

SCALE: NTS
DRAWING No. 2021-004-41



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: CRANBROOK ROAD

ITB No. 4667 FILE No. 2021-004

QUANTITIES			
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	6.000
2030015	Sewer, Rem, Less than 24 inch	Ft	60.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1,719.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	474.000
2057011	_Grading, Driveway Approach	Syd	432.000
2057011	_Grading, Sidewalk	Syd	28.000
2057011	_Grading, Sidewalk Ramp	Syd	12.000
2057011	_Machine Grading, Special	Syd	3,755.000
2057021	_Undercutting, Type IIA	Cyd	125.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	11.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	60.000
4021260	Trench Undercut and Backfill	Cyd	18.000
4030200	Dr Structure, 24 inch dia	Ea	6.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	12.000
4037050	_Dr Structure Cover, Type D, Modified (ADA Cover/Grate)	Ea	1.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	6.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	14.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	14.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	60.000
5010002	Cold Milling HMA Surface	Syd	3,755.000
5010005	HMA Surface, Rem	Syd	191.000
5010025	Hand Patching	Ton	22.000
5010703	HMA, LVSP	Ton	434.000
6027021	_Flowable Fill	Cyd	32.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	432.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	954.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	759.000
8030030	Curb Ramp Opening, Conc	Ft	12.000
8037001	_Detectable Warning Surface, Modified	Ft	10.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	110.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	131.000
8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	125.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	58.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	3.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	3.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	75.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	75.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	74.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	74.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	4.000
8127050	_Temporary No Parking Sign	Ea	39.000
8167011	_Slope Restoration	Syd	696.000
8230431	Gate Box, Adj, Case 1	Ea	1.000
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	1.000

QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
4.0	*D3-1	Street Name Sign	4.000	16.000
4.0	W20-1	Road Work Ahead Sign	9.000	36.000
3.0	R11-3a	Road Closed Local Traffic Only	12.500	38.000
TOTAL			90.000	

CASTING TABLE		
		FACILITY ID'S
WATER	NA	NA
SANITARY	8	71-62512/71-62511/ 71-62510/ 71-62509/ 71-62508/ 71-62507/ 71-62538/ 71-62506
STORM	4	92-50882/ 92-50881/ 92-50880/ 92-50879/
WATER BOX	1	01-08873

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

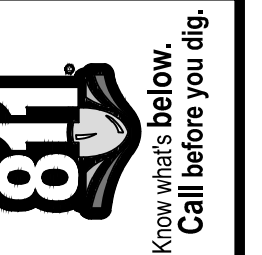
- INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- REMOVE EXISTING HMA SURFACE (APPROXIMATELY 2 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE ADDITIONAL HMA REMOVAL AND/OR BASE REPAIRS TO A DEPTH DETERMINED BY THE ENGINEER.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH TOP COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES AS REQUIRED.
- CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING (DRIVEWAYS) AS REQUIRED.
- OPEN STREET TO ALL TRAFFIC UPON APPROVAL OF THE ENGINEER.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
- REMOVE SESC MEASURES.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING TEMPORARY CLEANING OF STRUCTURES AND ALL OTHER NECESSARY CLEAN UP, FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES, NO PARKING SIGNS, AND MISS DIG FLAGS.

NOTES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED - MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

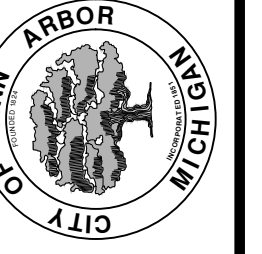
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1067
www.a2gov.org



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
CRANBROOK ROAD
SUBSET COVER SHEET

SCALE: NTS
DRAWING No. 2021-004-42
SHEET No.

T:\2021004\Plan Production\2021004 - Cranbrook Road.dwg Dwg Created: 9-Mar-21 - _s02 standard bw.stb - Plot Date: 25-Mar-21



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: DORCHESTER ROAD

QUANTITIES			
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	3.000
2030015	Sewer, Rem, Less than 24 inch	Ft	30.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	494.000
2047001	_HMA Curb, Rem	Ft	1,040.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	90.000
2057011	_Grading, Driveway Approach	Syd	55.000
2057011	_Grading, Sidewalk Ramp	Syd	4.000
2057011	_Machine Grading, Special	Syd	2,569.000
2057021	_Undercutting, Type IIA	Cyd	86.000
2087050	Erosion Control, Inlet Protection, Fabric Drop	Ea	8.000
3027011	_Aggregate Base, 8 inch, Modified	Syd	462.000
3077001	_Trenching, Modified	Ft	1,040.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	30.000
4021260	Trench Undercut and Backfill	Cyd	9.000
4030200	Dr Structure, 24 inch dia	Ea	3.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	1.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	1.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	5.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	5.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	30.000
4047001	_Yard Drain, Outlet Ending, Plastic Pipe	Ft	1.000
4047050	_Yard Drain, Outlet Ending, Pop-up Apparatus	Ea	1.000
5010002	Cold Milling HMA Surface	Syd	2,569.000
5010005	HMA Surface, Rem	Syd	167.000
5010025	Hand Patching	Ton	19.000
5010703	HMA, LVSP	Ton	594.000
6027021	_Flowable Fill	Cyd	28.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	55.000
8027001	_Curb and Gutter, Conc, Barrier or Mountable, Slip Form	Ft	1,127.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	371.000
8030030	Curb Ramp Opening, Conc	Ft	6.000
8037001	_Detectable Warning Surface, Modified	Ft	5.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	35.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	107.000
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	264.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	24.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	50.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	50.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	43.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	43.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	3.000
8127050	_Temporary No Parking Sign	Ea	27.000
8167011	_Slope Restoration	Syd	433.000
8230431	Gate Box, Adj, Case 1	Ea	1.000
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	1.000

ITB No. 4667 FILE No. 2021-004

QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
2.0	*D3-1	Street Name Sign	4.000	8.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000
		TOTAL		51.000

CASTING TABLE		
		FACILITY ID'S
WATER	1	01-03034
SANITARY	1	71-62693
STORM	NA	NA
WATER BOX	NA	NA

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

- INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, HMA CURB, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE ALL OF THE EXISTING HMA SURFACE (APPROXIMATELY 4 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE REMOVAL OF THE ROAD BASE MATERIAL TO A DEPTH DETERMINED BY THE ENGINEER.
- PROOF ROLL AND PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DETERMINED BY THE ENGINEER.
- PLACE AGGREGATE BASE MATERIAL AS REQUIRED AND DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- UPON APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (LEVELING COURSE) AS REQUIRED.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH TOP COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (TOP COURSE) AS REQUIRED.
- CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING (DRIVEWAYS) AS REQUIRED.
- OPEN STREET TO ALL TRAFFIC UPON APPROVAL OF THE ENGINEER.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
- REMOVE ALL SESC MEASURES.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING TEMPORARY CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES, NO PARKING SIGNS, AND MISS DIG FLAGS.

NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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		03/25/21	AG/CE/GS	DAD
		DATE	DRAWN	CHECKED
01	ADDENDUM 3			REV.
				DESCRIPTION

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR MI 48107-8647
www.aagov.org



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
DORCHESTER ROAD
SUBSET COVER SHEET

SCALE: NTS
DRAWING No. 2021-004-43



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: MANCHESTER ROAD

ITB No. 4667 FILE No. 2021-004

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

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- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, HMA CURB, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE ALL OF THE EXISTING HMA SURFACE (APPROXIMATELY 4 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE REMOVAL OF THE ROAD BASE MATERIAL TO A DEPTH DETERMINED BY THE ENGINEER.
- PROOF ROLL AND PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DETERMINED BY THE ENGINEER.
- PLACE AGGREGATE BASE MATERIAL AS REQUIRED AND DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- UPON APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (LEVELING COURSE) AS REQUIRED.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH TOP COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (TOP COURSE) AS REQUIRED.
- CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING (DRIVEWAYS) AS REQUIRED.
- OPEN STREET TO ALL TRAFFIC UPON APPROVAL OF THE ENGINEER.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
- REMOVE ALL SESC MEASURES.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING TEMPORARY CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES, NO PARKING SIGNS, AND MISS DIG FLAGS.

NOTES:

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QUANTITIES			
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	11.000
2030015	Sewer, Rem, Less than 24 inch	Ft	110.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1,701.000
2047001	_HMA Curb, Rem	Ft	4,241.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	862.000
2057011	_Grading, Driveway Approach	Syd	570.000
2057011	_Grading, Sidewalk	Syd	289.000
2057011	_Grading, Sidewalk Ramp	Syd	125.000
2057011	_Machine Grading, Special	Syd	11,194.000
2057021	_Undercutting, Type IIA	Cyd	349.000
2087050	Erosion Control, Inlet Protection, Fabric Drop	Ea	32.000
2080036	Erosion Control, Silt Fence	Ft	470.000
3027011	_Aggregate Base, 8 inch, Modified	Syd	1,885.000
3077001	_Trenching, Modified	Ft	4,241.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	110.000
4021260	Trench Undercut and Backfill	Cyd	33.000
4030200	Dr Structure, 24 inch dia	Ea	11.000
4030280	Dr Structure, Adj, Add Depth	Ft	1.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	9.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	28.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	31.000
4037050	_Dr Structure, Adj, Case 2, Modified	Ea	1.000
4037050	_Dr Structure, Cleaning, Modified	Ea	1.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	14.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	110.000
4047001	_Yard Drain, Outlet Ending, Plastic Pipe	Ft	2.000
5010002	Cold Milling HMA Surface	Syd	11,194.000
5010005	HMA Surface, Rem	Syd	667.000
5010025	Hand Patching	Ton	76.000
5010061	HMA Approach	Ton	83.000
5010703	HMA, LVSP	Ton	2,422.000
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	142.000
6027021	_Flowable Fill	Cyd	110.000
8017011	_Driveway, Nonrein Conc, 6 inch, Modified	Syd	459.000
8017011	_Driveway, Nonrein Conc, 8 inch, Modified	Syd	111.000
8027001	_Curb and Gutter, Conc, Barrier or Mountable, Slip Form	Ft	4,640.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	1,302.000
8030030	Curb Ramp Opening, Conc	Ft	102.000
8037001	_Detectable Warning Surface, Modified	Ft	85.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1,127.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	2,410.000
8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	195.000
8110092	Pavt Mrkg, Polyurea, 4 inch, Yellow	Ft	826.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	702.000
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	80.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	116.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	10.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	10.000
8120035	Channelizing Device, 42 inch, Fluorescent, Furn	Ea	28.000

QUANTITIES			
Item Code	Item Description	Unit	Quantity
8120036	Channelizing Device, 42 inch, Fluorescent, Oper	Ea	28.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	191.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	191.000
8120310	Sign Cover	Ea	2.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	2.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	2.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	185.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	185.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	48.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	48.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	13.000
8127050	_Temporary No Parking Sign	Ea	99.000
8167011	_Slope Restoration	Syd	939.000
8230431	Gate Box, Adj, Case 1	Ea	1.000
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	4.000

QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
12.0	*D3-1	Street Name Sign	4.000	48.000
2.0	G20-2	End Road Work	4.500	9.000
2.0	W3-5B	Reduce Speed Zone	9.000	18.000
1.0	W4-2R	Lane Ends / Right	9.000	9.000
12.0	W20-1	Road Work Ahead Sign	9.000	108.000
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000
2.0	R5-18C	Work Zone Begins	16.000	32.000
		TOTAL	233.000	

CASTING TABLE		
		FACILITY ID'S
WATER	5	01-01225 / 01-01229 / 01-01230 / 01-01234 / 01-01233
SANITARY	4	71-61083 / 71-61696 / 71-61704 / 71-61671
STORM	1	92-50696
WATER BOX	NA	NA

T:\2021004\Plan Production\2021004 - Manchester Road.dwg Dwg Created: 24-Mar-21 - _a2 standard bw.stb - Plot Date: 25-Mar-21

Know what's below. Call before you dig.

		03/25/21	AG/CE/GS	DAD	DRAWN	CHECKED
01	ADDENDUM 3	DATE	DESCRIPTION	REV		

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR MI 48107-8647
www.aagov.org

CITY OF ANN ARBOR
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
MANCHESTER ROAD
SUBSET COVER SHEET

SCALE: NTS

DRAWING No. 2021-004-44

SHEET No. 44 OF 51



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: TOWNER BLVD

ITB No. 4667 FILE No. 2021-004

QUANTITIES			
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	11.000
2030015	Sewer, Rem, Less than 24 inch	Ft	110.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	590.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	77.000
2057011	_Grading, Driveway Approach	Syd	22.000
2057011	_Grading, Sidewalk Ramp	Syd	47.000
2087050	Erosion Control, Inlet Protection, Fabric Drop	Ea	33.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	110.000
4021260	Trench Undercut and Backfill	Cyd	33.000
4030200	Dr Structure, 24 inch dia	Ea	11.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	15.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	4.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	110.000
5010002	Cold Milling HMA Surface	Syd	3,160.000
5010005	HMA Surface, Rem	Syd	131.000
5010025	Hand Patching	Ton	15.000
5010061	HMA Approach	Ton	38.000
5010703	HMA, LVSP	Ton	328.000
5017011	_Raised Intersection, HMA	Syd	215.000
6027011	_Raised Intersection, Conc	Syd	215.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	22.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	414.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	152.000
8030030	Curb Ramp Opening, Conc	Ft	42.000
8037001	_Detectable Warning Surface, Modified	Ft	35.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	426.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	260.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	50.000
8117050	_Pavt Mrkg, Polyurea, Speed Hump Chevron, White	Ea	24.000
8117050	_Pavt Mrkg, Thermopl, Speed Hump Chevron, White	Ea	24.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	8.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	8.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	49.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	49.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	181.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	181.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	36.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	36.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	6.000
8127050	_Temporary No Parking Sign	Ea	30.000
8167011	_Slope Restoration	Syd	180.000
8230431	Gate Box, Adj, Case 1	Ea	2.000
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	35.000

QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
9.0	*D3-1	Street Name Sign	4.000	36.000
9.0	W20-1	Road Work Ahead Sign	9.000	81.000
8.0	R11-3a	Road Closed Local Traffic Only	12.500	100.000
		TOTAL		217.000

CASTING TABLE		
		FACILITY ID'S
WATER	NA	NA
SANITARY	NA	NA
STORM	NA	NA
WATER BOX	NA	NA

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

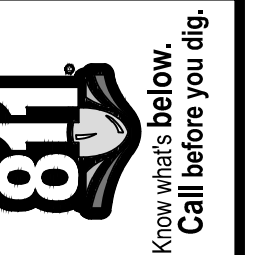
- INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- REMOVE EXISTING HMA SURFACE (APPROXIMATELY 2 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE ADDITIONAL HMA REMOVAL AND/OR BASE REPAIRS TO A DEPTH DETERMINED BY THE ENGINEER.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH TOP COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES AS REQUIRED.
- CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING (DRIVEWAYS) AS REQUIRED.
- OPEN STREET TO ALL TRAFFIC UPON APPROVAL OF THE ENGINEER.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
- REMOVE SESC MEASURES.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING TEMPORARY CLEANING OF STRUCTURES AND ALL OTHER NECESSARY CLEAN UP, FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES, NO PARKING SIGNS, AND MISS DIG FLAGS.

NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

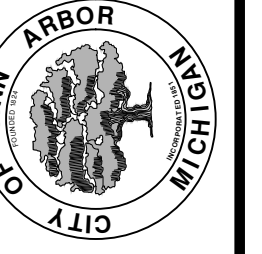
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.



REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	03/25/21	ADDENDUM 3		

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
TOWNER BLVD
SUBSET COVER SHEET

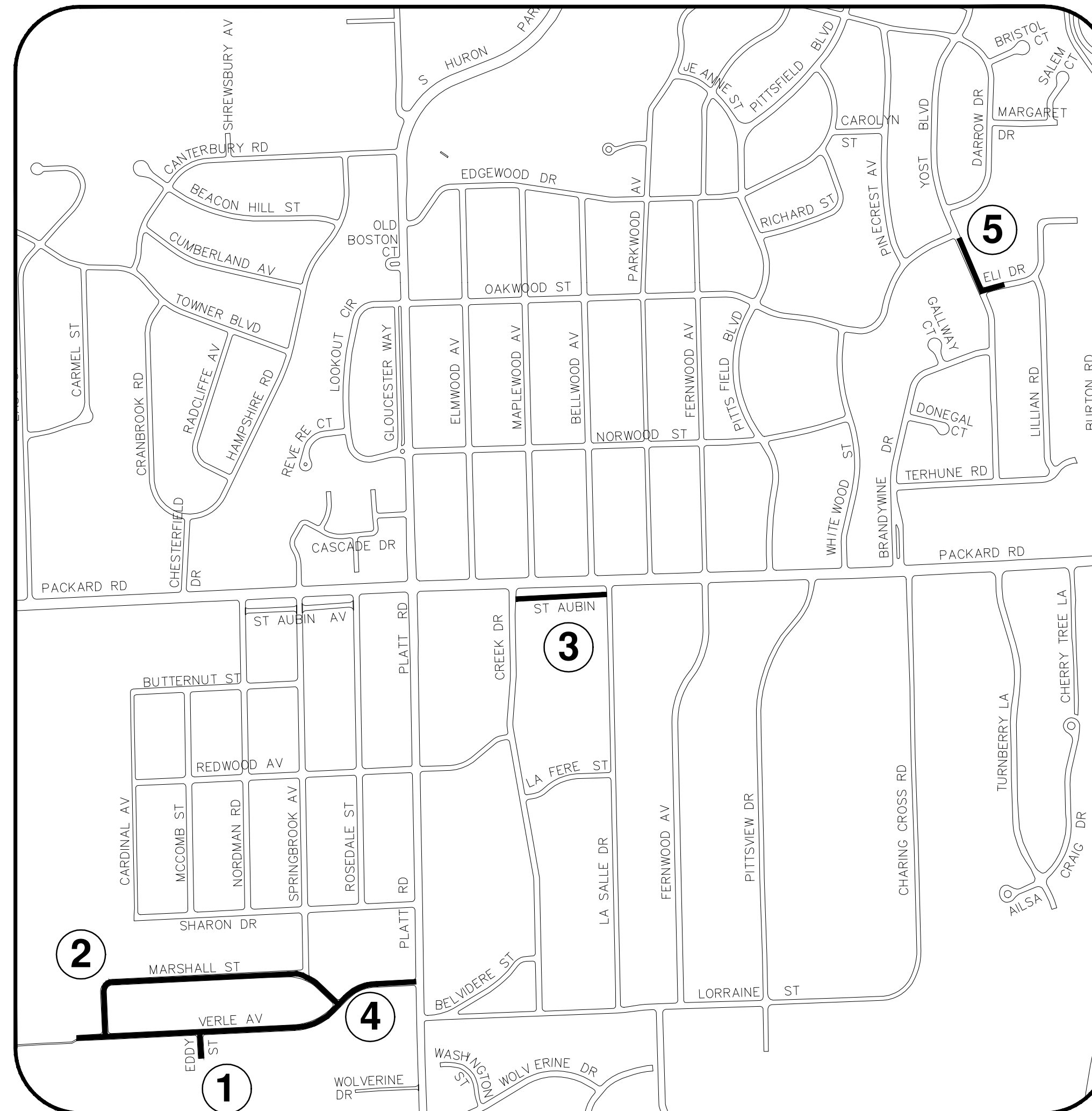
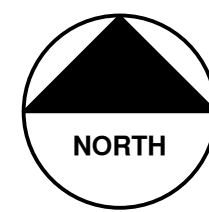
SCALE: NTS
DRAWING No. 2021-004-45



CITY OF ANN ARBOR ENGINEERING

STREET RESURFACING PROJECT - 2021 PHASE 3

ITB No. 4667 FILE No. 2021-004



SHEET INDEX

SHEET NO.	TITLE	MAP INDEX NO. (THIS SHEET)
47	EDDY STREET	1
48	MARSHALL STREET	2
49	SAINT AUBIN AVE	3
50	VERLE AVE	4
51	YOST BLVD AND ELI ROAD SIDEWALK GAP	5

NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

T:\2021004\Plan Production\2021004 - Phase 3 Cover Sheet.dwg Dwg Created: 18-Feb-21 - _a2 standard bw.stb - Plot Date: 25-Mar-21



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM 3	03/25/21	JAC/CE/OS	DAD

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
734.794.4410
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
PHASE 3
PHASE 3 COVER SHEET

SCALE: NTS
DRAWING No.
2021-004-46



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: EDDY STREET

ITB No. 4667 FILE No. 2021-004

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

1. INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
2. CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
3. INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
4. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
5. TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
6. REMOVE ALL OF THE EXISTING HMA SURFACE (APPROXIMATELY 4 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE REMOVAL OF THE ROAD BASE MATERIAL TO A DEPTH DETERMINED BY THE ENGINEER.
7. PROOF ROLL AND PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DETERMINED BY THE ENGINEER.
8. PLACE AGGREGATE BASE MATERIAL AS REQUIRED AND DIRECTED BY THE ENGINEER.
9. GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
10. UPON APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LVSP).
11. CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (LEVELING COURSE) AS REQUIRED.
12. ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
13. CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH TOP COURSE HMA MIX (LVSP).
14. CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (TOP COURSE) AS REQUIRED.
15. CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING (DRIVEWAYS) AS REQUIRED.
16. OPEN STREET TO ALL TRAFFIC UPON APPROVAL OF THE ENGINEER.
17. CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
18. REMOVE ALL SESC MEASURES.
19. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING TEMPORARY CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
20. REMOVE ALL TRAFFIC CONTROL DEVICES, NO PARKING SIGNS, AND MISS DIG FLAGS.

NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

Item Code	Item Description	Unit	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	191.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	22.000
2057011	_Grading, Driveway Approach	Syd	22.000
2057011	_Machine Grading, Special	Syd	475.000
2057021	_Undercutting, Type IIIA	Cyd	16.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	2.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	1.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	1.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	1.000
5010002	Cold Milling HMA Surface	Syd	475.000
5010005	HMA Surface, Rem	Syd	21.000
5010025	Hand Patching	Ton	2.000
5010703	HMA, LVSP	Ton	110.000
6027021	_Flowable Fill	Cyd	4.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	22.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	144.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	50.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	63.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	1.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	1.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	5.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	5.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	43.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	43.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000
8127050	_Temporary No Parking Sign	Ea	5.000
8167011	_Slope Restoration	Syd	25.000

QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
2.0	*D3-1	Street Name Sign	4.000	8.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000
		TOTAL		51.000

CASTING TABLE		
		FACILITY ID'S
WATER	NA	NA
SANITARY	NA	NA
STORM	NA	NA
WATER BOX	1	01-00552



			DAD	CHECKED
		AC/CE/OS	DRAWN	
		03/25/21	DATE	
01	ADDENDUM 3			REV.
			DESCRIPTION	

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 864
ANN ARBOR MI 48107-0864
www.a3gov.org



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
EDDY STREET
SUBSET COVER SHEET

SCALE: NTS
DRAWING No. 2021-004-47



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: MARSHALL STREET

Table with columns: Item Code, Item Description, Unit, Quantity. Lists various construction items and their quantities, including sewer, curb, sidewalk, and pavement work.

ITB No. 4667 FILE No. 2021-004

Table with columns: Quantity, Sign Code, Description, Area (sft), Total Area (Sft). Lists specific sign quantities for street name and road work signs.

Casting Table with columns: Water, Sanitary, Storm, Water Box, Facility ID's. Lists facility IDs for various types of boxes.

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS...

- 1. INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN... 20. REMOVE ALL TRAFFIC CONTROL DEVICES, NO PARKING SIGNS, AND MISS DIG FLAGS.

NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS...

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING.

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION...

T:\2021004\Plan Production\2021004 - Marshall Street.dwg Dwg Created: 8-Mar-21 - _a2 standard b.w.stb - Plot Date: 25-Mar-21



Know what's below. Call before you dig.

Revision table with columns: REV, DESCRIPTION, DATE, DRAWN, CHECKED. Includes entries for DAD, AC/CE/GS, and DATE 03/25/21.

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 86470 ANN ARBOR, MI 48107-8647 www.a3gov.org



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR STREET RESURFACING PROJECT - 2021 MARSHALL STREET SUBSET COVER SHEET

SCALE: NTS DRAWING NO. 2021-004-48



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: SAINT AUBIN AVENUE

ITB No. 4667 FILE No. 2021-004

QUANTITIES			
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	3.000
2030015	Sewer, Rem, Less than 24 inch	Ft	30.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	274.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	80.000
2057011	_Grading, Driveway Approach	Syd	17.000
2057011	_Grading, Sidewalk	Syd	56.000
2057011	_Grading, Sidewalk Ramp	Syd	12.000
2057011	_Machine Grading, Special	Syd	3,614.000
2057021	_Undercutting, Type IIA	Cyd	120.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	4.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	30.000
4021260	Trench Undercut and Backfill	Cyd	9.000
4030200	Dr Structure, 24 inch dia	Ea	3.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	1.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	3.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	2.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	4.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	30.000
5010002	Cold Milling HMA Surface	Syd	3,614.000
5010005	HMA Surface, Rem	Syd	30.000
5010025	Hand Patching	Ton	4.000
5010703	HMA, LVSP	Ton	835.000
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	35.000
6027021	_Flowable Fill	Cyd	5.000
8017011	_Driveway, Nonreinf Conc, 8 inch, Modified	Syd	17.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	236.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	38.000
8030030	Curb Ramp Opening, Conc	Ft	12.000
8037001	_Detectable Warning Surface, Modified	Ft	10.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	108.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	190.000
8037010	_Sidewalk, Conc, 8 inch, Modified	Sft	310.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	84.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	24.000
8110293	Pavt Mrkg, Waterborne, for Rest Areas, Parks, & Lots, 4 inch, Blue	Ft	140.000
8110293	Pavt Mrkg, Waterborne, for Rest Areas, Parks, & Lots, 4 inch, White	Ft	1,764.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	16.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	16.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	2.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	159.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	159.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	4.000
8127050	_Pedestrian Type II Channelizer, Temp	Ea	8.000
8127050	_Temporary No Parking Sign	Ea	15.000
8167011	_Slope Restoration	Syd	79.000
8230431	Gate Box, Adj, Case 1	Ea	2.000

QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
4.0	*D3-1	Street Name Sign	4.000	16.000
2.0	G20-2	End Road Work	4.500	9.000
2.0	W3-5B	Reduce Speed Zone	9.000	18.000
1.0	W4-2R	Lane Ends / Right	9.000	9.000
4.0	W20-1	Road Work Ahead Sign	9.000	36.000
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000
2.0	R2-1	Speed Limit	7.500	15.000
2.0	R5-18C	Work Zone Begins	16.000	32.000
2.0	R6-1L	One Way / Left	3.000	6.000
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000
		TOTAL		175.000

CASTING TABLE		
	FACILITY ID'S	
WATER	NA	NA
SANITARY	1	71-62417
STORM	NA	NA
WATER BOX	NA	NA

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

- INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE ALL OF THE EXISTING HMA SURFACE (APPROXIMATELY 4 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE REMOVAL OF THE ROAD BASE MATERIAL TO A DEPTH DETERMINED BY THE ENGINEER.
- PROOF ROLL AND PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DETERMINED BY THE ENGINEER.
- PLACE AGGREGATE BASE MATERIAL AS REQUIRED AND DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- UPON APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (LEVELING COURSE) AS REQUIRED.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH TOP COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (TOP COURSE) AS REQUIRED.
- CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING (DRIVEWAYS) AS REQUIRED.
- OPEN STREET TO ALL TRAFFIC UPON APPROVAL OF THE ENGINEER.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
- REMOVE ALL SESC MEASURES.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING TEMPORARY CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES, NO PARKING SIGNS, AND MISS DIG FLAGS.

NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.



				DAD	CHECKED
				AG/CE/OS	DRAWN
		03/25/21	DATE		
01	ADDENDUM 3				REV.
					DESCRIPTION

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
PO BOX 984
ANN ARBOR MI 48107-0867
www.aagov.org

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
SAINT AUBIN AVENUE
SUBSET COVER SHEET

SCALE: NTS
DRAWING No. 2021-004-49
SHEET No.

I:\2021004\Plan Production\2021004 - Saint Aubin Avenue.dwg Dwg Created: 12-Feb-21 - _s2 standard bw.stb - Plot Date: 25-Mar-21



CITY OF ANN ARBOR ENGINEERING PROJECT LOCATION:

YOST BOULEVARD AND ELI ROAD SIDEWALK

ITB No. 4667 FILE No. 2021-004

QUANTITIES			
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	10.000
2030015	Sewer, Rem, Less than 24 inch	Ft	100.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1,539.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	561.000
2057011	_Grading, Driveway Approach	Syd	441.000
2057011	_Grading, Sidewalk	Syd	191.000
2057011	_Grading, Sidewalk Ramp	Syd	45.000
2057011	_Machine Grading, Special	Syd	9,000.000
2057021	_Undercutting, Type IIA	Cyd	300.000
2087050	Erosion Control, Inlet Protection, Fabric Drop	Ea	17.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	100.000
4021260	Trench Undercut and Backfill	Cyd	30.000
4030200	Dr Structure, 24 inch dia	Ea	10.000
4030280	Dr Structure, Adj, Add Depth	Ft	1.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	18.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	10.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	31.000
4037050	_Dr Structure, Adj, Case 2, Modified	Ea	1.000
4037050	_Dr Structure, Cleaning, Modified	Ea	1.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	28.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	100.000
4047001	_Yard Drain, Outlet Ending, Plastic Pipe	Ft	1.000
4047050	_Yard Drain, Outlet Ending, Pop-up Apparatus	Ea	1.000
5010002	Cold Milling HMA Surface	Syd	9,000.000
5010005	HMA Surface, Rem	Syd	262.000
5010025	Hand Patching	Ton	20.000
5010703	HMA, LVSP	Ton	2,079.000
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	614.000

QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
6.0	*D3-1	Street Name Sign	4.000	24.000
4.0	W20-1	Road Work Ahead Sign	9.000	36.000
		TOTAL		60.000

CASTING TABLE		
		FACILITY ID'S
WATER	NA	NA
SANITARY	NA	NA
STORM	NA	NA
WATER BOX	NA	NA

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

1. INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
2. CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS.
3. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
4. CLEAN PAVEMENT AND COMPLETE ANY HMA PAVEMENT PATCHING AS REQUIRED.
5. OPEN STREET TO ALL TRAFFIC UPON APPROVAL OF THE ENGINEER.
6. CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
7. REMOVE SESC MEASURES.
8. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING TEMPORARY CLEANING OF STRUCTURES AND ALL OTHER NECESSARY CLEAN UP, FINAL RESTORATION.
9. REMOVE ALL TRAFFIC CONTROL DEVICES, NO PARKING SIGNS, AND MISS DIG FLAGS.

NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	03/25/21	ADDENDUM 3	AG/CE/JS	DAD

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 864
ANN ARBOR MI 48107-0864
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2021
YOST BOULEVARD AND ELI ROAD SIDEWALK
SUBSET COVER SHEET

SCALE: NTS
DRAWING No.
2021-004-51