

ADDENDUM No. 2

ITB No. 4529

Street Resurfacing Project - 2018

Bids Due: March 29, 2018 at 2:00 P.M. (local time)

The following changes, additions, and/or deletions shall be made to the Invitation to Bid for Street Resurfacing Project- 2018, ITB No. 4529, on which proposals will be received on/or before March 27, 2018, 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 90 pages.**

Bidder is to acknowledge receipt of this Addendum No. 2, 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 will be considered nonconforming.

The following forms provided within the ITB document must 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 completed forms listed above upon bid opening will be rejected as non-responsive and will 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.

<u>Section/Page(s)</u>	<u>Change</u>
All mentions	As provided in Addendum 1: Bid Due Date: Tuesday, March 27, 2018 at 2:00 p.m. (Local Time)
	As updated herein: Bid Due Date: Thursday, March 29, 2018 at 2:00 p.m. (Local Time)

Comment: The Due Date and Time for responses to this ITB has been extended to Thursday, March 29, 2018 at 2:00 p.m. (local time). Note that all other dates are unchanged.

<u>Section/Page(s)</u>	<u>Change</u>
Bid Forms/ BF-1 to BF-9	Replace these pages with attached pages Addendum-2-3 to Addendum-2-11. Revised to include removal of pay items "Aggregate Base, Conditioning" and "Pavt Repr, Nonreinf Conc 10 inch; addition of pay items "Bump Grinding" and "Pavt Repr, Nonreinf Conc 9 inch; and correction to items on Bid Forms released as part of Addendum 1 with zero (0) quantities shown.
Detailed Specifications/ DS-11 to 12	Detailed Specification for Progress Schedule; replace with attached pages Addendum-2-12 to Addendum-2-13. Revised dates for the return of execute contract, submittal of progress schedule, and start of work.
Construction Plans	<p>Construction Plan Set; replace Addendum 1 issued plan set (sheets 1 thru 79) with that issued for this Addendum 2 (sheets 1 thru 77).</p> <p>Changes include the following:</p> <p><u>Revised Plan Sheets (Location Cover Sheets) 7, 12, 14, 17, 19, 21, 23, 25, 27, 29, 33, 35, 37, 40, 59, 66 and 72</u> – to update quantities shown in quantity tables (ignore any references to pay item "Aggregate Base, Conditioning" in these tables), and revised CONSTRUCTION METHODS AND SEQUENCING notes to CONSTRUCTION SCOPE AND SEQUENCING notes to reflect the proposed work at each project location.</p> <p>Removed plans sheets 44 and 48 from plan set issued with Addendum 1.</p> <p>Performed miscellaneous drafting and notation corrections throughout the plan set.</p>

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

BID FORM

Section 1 - Schedule of Prices

Street Resurfacing Project- 2018
File No. 2018-004
Bid No. 4529

<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>
10	1047051	_Certified Payroll Compliance and Reporting	LSUM	1.00	\$ _____	\$ _____
20	1047051	_General Conditions, Max \$125,000.00	LSUM	1.00	\$ _____	\$ _____
30	1047051	_Project Supervision, Max \$75,000.00	LSUM	1.00	\$ _____	\$ _____
40	2030011	Dr Structure, Rem	Ea	51.00	\$ _____	\$ _____
50	2030015	Sewer, Rem, Less than 24 inch	Ft	510.00	\$ _____	\$ _____
60	2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	6,579.00	\$ _____	\$ _____
70	2047011	_Conc Pavt, Any Thickness, Rem	Syd	250.00	\$ _____	\$ _____
80	2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	1,460.00	\$ _____	\$ _____
90	2047050	_Exploratory Excavation, Vertical	Ft	50.00	\$ _____	\$ _____
100	2050023	Granular Material, CI II	Cyd	50.00	\$ _____	\$ _____
110	2057011	_Grading, Driveway Approach	Syd	871.00	\$ _____	\$ _____
120	2057011	_Grading, Sidewalk	Syd	2,001.00	\$ _____	\$ _____
130	2057011	_Grading, Sidewalk Ramp	Syd	261.00	\$ _____	\$ _____
140	2057011	_Machine Grading, Special	Syd	50,404.00	\$ _____	\$ _____
150	2057021	_Subgrade Undercutting, Type IIA	Cyd	4,508.00	\$ _____	\$ _____
160	2057021	_Subgrade Undercutting, Type IIB	Cyd	250.00	\$ _____	\$ _____
170	2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	188.00	\$ _____	\$ _____
180	2080036	Erosion Control, Silt Fence	Ft	2,401.00	\$ _____	\$ _____
190	2090001	Project Cleanup	LSUM	1.00	\$ _____	\$ _____
200	3010002	Subbase, CIP	Cyd	50.00	\$ _____	\$ _____
210	3027011	_Aggregate Base, 8 inch, Modified	Syd	467.00	\$ _____	\$ _____
TOTAL THIS PAGE						\$ _____

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220	3027031	_Aggregate Base, Modified	Ton	1,250.00	\$ _____	\$ _____
230	3060020	Maintenance Gravel	Ton	250.00	\$ _____	\$ _____
240	3070001	Approach, CI I	Ton	100.00	\$ _____	\$ _____
250	3070101	Shoulder, CI I	Ton	338.00	\$ _____	\$ _____
260	3070200	Trenching	Sta	6.00	\$ _____	\$ _____
270	3080010	Geotextile, Stabilization	Syd	100.00	\$ _____	\$ _____
280	3087011	_Geosynthetic Paving Layer	Syd	1,760.00	\$ _____	\$ _____
290	3087011	_Structural Geogrid	Syd	250.00	\$ _____	\$ _____
300	4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	510.00	\$ _____	\$ _____
310	4021260	Trench Undercut and Backfill	Cyd	10.00	\$ _____	\$ _____
320	4030200	Dr Structure, 24 inch dia	Ea	51.00	\$ _____	\$ _____
330	4030210	Dr Structure, 48 inch dia	Ea	2.00	\$ _____	\$ _____
340	4030306	Dr Structure, Tap, 6 inch	Ea	5.00	\$ _____	\$ _____
350	4030312	Dr Structure, Tap, 12 inch	Ea	1.00	\$ _____	\$ _____
360	4037001	_Dr Structure, Adj, Add Depth, Modified	Ft	12.00	\$ _____	\$ _____
370	4037050	_Dr Structure Cover, Special	Ea	2.00	\$ _____	\$ _____
380	4037050	_Dr Structure Cover, Type B, Modified	Ea	73.00	\$ _____	\$ _____
390	4037050	_Dr Structure Cover, Type C, Modified	Ea	1.00	\$ _____	\$ _____
400	4037050	_Dr Structure Cover, Type D, Modified	Ea	2.00	\$ _____	\$ _____
410	4037050	_Dr Structure Cover, Type E, Modified	Ea	2.00	\$ _____	\$ _____
420	4037050	_Dr Structure Cover, Type K, Modified	Ea	73.00	\$ _____	\$ _____
TOTAL THIS PAGE						\$ _____

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Section 1 - Schedule of Prices

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430	4037050	_Dr Structure, Adj, Case 1, Modified	Ea	183.00	\$ _____	\$ _____
440	4037050	_Dr Structure, Adj, Case 2, Modified	Ea	4.00	\$ _____	\$ _____
450	4037050	_Dr Structure, Cleaning, Modified	Ea	25.00	\$ _____	\$ _____
460	4037050	_Dr Structure, Double Inlet	Ea	1.00	\$ _____	\$ _____
470	4037050	_Dr Structure, Point	Ea	10.00	\$ _____	\$ _____
480	4037050	_Dr Structure, Temp Lowering, Modified	Ea	142.00	\$ _____	\$ _____
490	4037050	_Structure, Reconstruct	Ea	1.00	\$ _____	\$ _____
500	4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	3,520.00	\$ _____	\$ _____
510	5010001	Pavt, Cleaning	LSUM	1.00	\$ _____	\$ _____
520	5010002	Cold Milling HMA Surface	Syd	66,073.00	\$ _____	\$ _____
530	5010004	Bump Grinding	Syd	150.00	\$ _____	\$ _____
540	5010005	HMA Surface, Rem	Syd	3,693.89	\$ _____	\$ _____
550	5010015	Joint and Crack, Cleanout	Ft	1,500.00	\$ _____	\$ _____
560	5010020	Pvmt Joint and Crack Repr, Detail 7	Ft	2,225.00	\$ _____	\$ _____
570	5010021	Pvmt Joint and Crack Repr, Detail 8	Ft	550.00	\$ _____	\$ _____
580	5010025	Hand Patching	Ton	601.00	\$ _____	\$ _____
590	5010050	HMA, 4E1	Ton	684.00	\$ _____	\$ _____
600	5010056	HMA, 5E1	Ton	684.00	\$ _____	\$ _____
610	5010061	HMA, Approach	Ton	391.89	\$ _____	\$ _____
620	5010508	HMA, 4E1, High Stress	Ton	215.00	\$ _____	\$ _____
630	5010509	HMA, 4E3, High Stress	Ton	1,322.00	\$ _____	\$ _____
TOTAL THIS PAGE						\$ _____

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640	5010509	HMA, 5E1, High Stress	Ton	215.00	\$ _____	\$ _____
650	5010514	HMA, 5E3, High Stress	Ton	878.00	\$ _____	\$ _____
660	5010515	HMA, LVSP	Ton	10,885.80	\$ _____	\$ _____
670	5010703	_Cold Milling Concrete Pavement	Syd	450.00	\$ _____	\$ _____
680	5017011	_Cold Milling HMA Surface, Modified	Syd	300.00	\$ _____	\$ _____
690	5017011	_HMA, Raised Crosswalk	Syd	60.00	\$ _____	\$ _____
700	5017011	_HMA, Raised Intersection	Syd	175.00	\$ _____	\$ _____
710	5017011	_HMA, Speed Hump	Syd	35.00	\$ _____	\$ _____
720	5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Ton	5.00	\$ _____	\$ _____
730	5017031	_HMA, Wedging, 36A	Ton	36.00	\$ _____	\$ _____
740	5017031	Hand Patching, Modified	Ton	100.00	\$ _____	\$ _____
750	5017031	Joint, Expansion, E3	Ft	50.00	\$ _____	\$ _____
760	6020208	Joint, Plane-of-Weakness, W	Ft	150.00	\$ _____	\$ _____
770	6020211	Shoulder, Nonreinf Conc	Syd	400.00	\$ _____	\$ _____
780	6020222	_Flowable Fill	Cyd	123.65	\$ _____	\$ _____
790	6027021	Cement	Ton	20.00	\$ _____	\$ _____
800	6030005	Joint, Contraction, Crg	Ft	1,125.00	\$ _____	\$ _____
810	6030020	Joint, Contraction, Erg	Ft	50.00	\$ _____	\$ _____
820	6030021	Joint, Tied, Trg	Ft	275.00	\$ _____	\$ _____
830	6030021	Lane Tie, Epoxy Anchored	Ea	220.00	\$ _____	\$ _____
840	6030030	Pavt Repr, Nonreinf Conc, 9 inch	Syd	780.00	\$ _____	\$ _____
TOTAL THIS PAGE						\$ _____

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850	6030080	Pavt Repr, Rem	Syd	780.00	\$ _____	\$ _____
860	6030090	Saw Cut, Intermediate	Ft	1,200.00	\$ _____	\$ _____
870	6030095	Sawing and Sealing Longit Pavt Joints	Ft	780.00	\$ _____	\$ _____
880	6030096	Sawing and Sealing Trans Pavt Joints	Ft	560.00	\$ _____	\$ _____
890	6030100	Resealing Trans Joints with Hot-Poured Rubber	Ft	600.00	\$ _____	\$ _____
900	6030101	Resealing Longit Joints with Hot-Poured Rubber	Ft	1,350.00	\$ _____	\$ _____
910	8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	954.00	\$ _____	\$ _____
920	8017011	_Driveway, Nonreinf Conc, 8 inch, Modified	Syd	18.00	\$ _____	\$ _____
930	8027001	_Curb and Gutter, Conc, Barrier	Ft	3,550.00	\$ _____	\$ _____
940	8027001	_Curb and Gutter, Conc, Mountable	Ft	1,317.00	\$ _____	\$ _____
950	8027001	_Driveway Opening, Conc, Det M, Modified	Ft	1,834.00	\$ _____	\$ _____
960	8037001	_Detectable Warning Surface, Modified	Ft	288.00	\$ _____	\$ _____
970	8037001	_Fence, Protective, Modified	Ft	250.00	\$ _____	\$ _____
980	8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	2,129.00	\$ _____	\$ _____
990	8037010	_Sidewalk Ramp, Conc, 8 inch, Modified	Sft	60.00	\$ _____	\$ _____
1000	8037010	_Sidewalk Retaining Wall, Integral, 6 inch to 18 inch Height	Sft	350.00	\$ _____	\$ _____
1010	8037010	_Sidewalk Retaining Wall, Integral, 18 inch to 30 inch Height	Sft	150.00	\$ _____	\$ _____
1020	8037010	_Sidewalk, Conc or Clay Brick Pavers, Rem and Reinstall	Sft	55.00	\$ _____	\$ _____
1030	8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	2,942.00	\$ _____	\$ _____
1040	8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	150.00	\$ _____	\$ _____
1050	8037010	_Sidewalk, Conc, 8 inch, Modified	Sft	60.00	\$ _____	\$ _____
TOTAL THIS PAGE						\$ _____

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1060	8060040	Shared use Path, HMA	Ton	918.00	\$ _____	\$ _____
1070	8067031	_Shared use Path, HMA, Wedging	Ton	75.00	\$ _____	\$ _____
1080	8110049	Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	Ea	8.00	\$ _____	\$ _____
1090	8110058	Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	12.00	\$ _____	\$ _____
1100	8110079	Pavt Mrkg, Ovly Cold Plastic, Sharrow Symbol	Ea	4.00	\$ _____	\$ _____
1110	8110195	Pavt Mrkg, Thermopl, 4 inch, White	Ft	220.00	\$ _____	\$ _____
1120	8110196	Pavt Mrkg, Thermopl, 4 inch, Yellow	Ft	3,955.00	\$ _____	\$ _____
1130	8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	1,535.00	\$ _____	\$ _____
1140	8110198	Pavt Mrkg, Thermopl, 6 inch, White	Ft	3,161.00	\$ _____	\$ _____
1150	8110212	Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, White	Ft	125.00	\$ _____	\$ _____
1160	8110213	Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, Yellow	Ft	205.00	\$ _____	\$ _____
1170	8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	616.00	\$ _____	\$ _____
1180	8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	266.00	\$ _____	\$ _____
1190	8110307	Rem Curing Compound, for Longit Mrkg, 4 inch	Ft	375.00	\$ _____	\$ _____
1200	8110308	Rem Curing Compound, for Longit Mrkg, 6 inch	Ft	750.00	\$ _____	\$ _____
1210	8110321	Rem Curing Compound, for Spec Mrkg	Sft	50.00	\$ _____	\$ _____
1220	8110332	Rem Raised Pavt Marker	Ea	45.00	\$ _____	\$ _____
1230	8110343	Rem Spec Mrkg	Sft	836.00	\$ _____	\$ _____
1240	8110450	Recessing Pavement Markings, Longit	Ft	11,443.00	\$ _____	\$ _____
1250	8110451	Recessing Pavement Markings, Transv	Sft	332.00	\$ _____	\$ _____
1260	8110500	Pavt Mrkg, Wet Retrflc Polyurea, 4 inch, White	Ft	2,590.00	\$ _____	\$ _____
TOTAL THIS PAGE						\$ _____

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1270	8110501	Pavt Mrkg, Wet Retrflec Polyurea, 6 inch, White	Ft	5,760.00	\$ _____	\$ _____
1280	8110504	Pavt Mrkg, Wet Retrflec Polyurea, 4 inch, Yellow	Ft	3,919.00	\$ _____	\$ _____
1290	8117001	_Pavt Mrkg, Wet Retrflec Polyurea, 12 inch, Crosswalk	Ft	608.00	\$ _____	\$ _____
1300	8117001	_Pavt Mrkg, Wet Retrflec Polyurea, 24 inch, Stop Bar	Ft	39.00	\$ _____	\$ _____
1310	8117050	_Pavt Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	4.00	\$ _____	\$ _____
1320	8117050	_Pavt Mrkg, Thermopl, Only	Ea	6.00	\$ _____	\$ _____
1330	8117050	_Pavt Mrkg, Thermopl, Rt Turn Arrow Sym	Ea	2.00	\$ _____	\$ _____
1340	8117050	_Pavt Mrkg, Thermopl, Speed Hump Chevron, White	Ea	5.00	\$ _____	\$ _____
1350	8117050	_Pavt Mrkg, Thermopl, Thru Arrow Sym	Ea	1.00	\$ _____	\$ _____
1360	8117050	_Pavt Mrkg, Wet Retrflec Polyurea, Lt Turn Arrow Sym	Ea	1.00	\$ _____	\$ _____
1370	8117050	_Pavt Mrkg, Wet Retrflec Polyurea, Only	Ea	1.00	\$ _____	\$ _____
1380	8117050	_Pavt Mrkg, Wet Retrflec Polyurea, Rt Turn Arrow Sym	Ea	1.00	\$ _____	\$ _____
1390	8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	82.00	\$ _____	\$ _____
1400	8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	82.00	\$ _____	\$ _____
1410	8120030	Channelizing Device, 42 inch, Furn	Ea	80.00	\$ _____	\$ _____
1420	8120031	Channelizing Device, 42 inch, Oper	Ea	80.00	\$ _____	\$ _____
1430	8120140	Lighted Arrow, Type C, Furn	Ea	5.00	\$ _____	\$ _____
1440	8120141	Lighted Arrow, Type C, Oper	Ea	5.00	\$ _____	\$ _____
1450	8120200	Pavt Mrkg Cover, Type R, Black	Ft	120.00	\$ _____	\$ _____
1460	8120210	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	663.00	\$ _____	\$ _____
1470	8120235	Pavt Mrkg, Wet Retrflec, Type NR, Paint, 4 inch, White, Temp	Ft	3,141.00	\$ _____	\$ _____
TOTAL THIS PAGE						\$ _____

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1480	8120236	Pavt Mrkg, Wet Retrflec, Type NR, Paint, 4 inch, Yellow, Temp	Ft	7,500.00	\$ _____	\$ _____
1490	8120245	Pavt Mrkg, Wet Retrflec, Type R, Tape, 4 inch, White, Temp	Ft	1,565.00	\$ _____	\$ _____
1500	8120246	Pavt Mrkg, Wet Retrflec, Type R, Tape, 4 inch, Yellow, Temp	Ft	2,406.00	\$ _____	\$ _____
1510	8120250	Plastic Drum, High Intensity, Furn	Ea	1,135.00	\$ _____	\$ _____
1520	8120251	Plastic Drum, High Intensity, Oper	Ea	1,135.00	\$ _____	\$ _____
1530	8120265	Pavt Mrkg, Wet Retrflec, Type R, Tape, 24 inch, Stop Bar	Ea	12.00	\$ _____	\$ _____
1540	8120310	Sign Cover	Ea	71.00	\$ _____	\$ _____
1550	8120330	Sign, Portable, Changeable Message, Furn	Ea	4.00	\$ _____	\$ _____
1560	8120331	Sign, Portable, Changeable Message, Oper	Ea	8.00	\$ _____	\$ _____
1570	8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	2,124.00	\$ _____	\$ _____
1580	8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	2,124.00	\$ _____	\$ _____
1590	8120370	Traf Regulator Control	LSUM	1.00	\$ _____	\$ _____
1600	8127050	_No Parking Sign	Ea	543.00	\$ _____	\$ _____
1610	8127050	_Pavt Mrkg, Wet Retrflec, Type R, Tape, Rt Turn Arrow Sym	Ea	2.00	\$ _____	\$ _____
1620	8127050	_Pedestrian Type II Barricade, Temp	Ea	15.00	\$ _____	\$ _____
1630	8127050	_Pedestrian Type II Channelizer, Temp	Ea	10.00	\$ _____	\$ _____
1640	8127051	_Minor Traffic Control, Max \$75,000.00	LSUM	1.00	\$ _____	\$ _____
1650	8157060	_Irrigation System, Protection and Maintenance	Dlr	2,500.00	\$ _____	\$ _____
1660	8167011	_Slope Restoration	Syd	6,487.00	\$ _____	\$ _____
1670	8190159	Conduit, Schedule 80, 3 inch	Ft	100.00	\$ _____	\$ _____
1680	8190244	Hh, Adj	Ea	8.00	\$ _____	\$ _____
TOTAL THIS PAGE						\$ _____

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1690	8197050	_Handhole Assembly, 12 Inch x 18 Inch	Ea	1.00	\$ _____	\$ _____
1700	8197050	_Handhole Assembly, 17 Inch x 30 Inch	Ea	1.00	\$ _____	\$ _____
1710	8197050	_Handhole Assembly, 24 inch x 36 inch	Ea	1.00	\$ _____	\$ _____
1720	8217050	_Monument Box Adjust	Ea	5.00	\$ _____	\$ _____
1730	8230431	Gate Box, Adj, Case 1	Ea	16.00	\$ _____	\$ _____
1740	8230432	Gate Box, Adj, Case 2	Ea	5.00	\$ _____	\$ _____
1750	8257050	_Remove Parking Meters	Ea	5.00	\$ _____	\$ _____
TOTAL THIS PAGE						\$ _____
TOTAL FROM PAGE BF-1						\$ _____
TOTAL FROM PAGE BF-2						\$ _____
TOTAL FROM PAGE BF-3						\$ _____
TOTAL FROM PAGE BF-4						\$ _____
TOTAL FROM PAGE BF-5						\$ _____
TOTAL FROM PAGE BF-6						\$ _____
TOTAL FROM PAGE BF-7						\$ _____
TOTAL FROM PAGE BF-8						\$ _____
TOTAL BASE BID						\$ _____

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PROJECT SCHEDULE

AA:DAD

1 of 2

03/21/18

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 Completion, and the Liquidated Damages per Calendar Day for each street. For the purpose of this Contract, the "Start of Work" definition is the date when either the "No-Parking" signs or the temporary traffic control measures become effective, whichever occurs first. The definition of the "Completion of Work" is the point in time when all work designated for a project location is complete. This includes, but is not limited to, placement of permanent pavement markings, driveway wedging, slope restoration, clean-up, street cleaning, underground utility and utility structure cleaning, the removal of all temporary traffic control devices and "No Parking" signs, and other necessary work and as directed by the Engineer.

The Engineer shall limit the Contractor's work operations to a number of streets that, in the opinion of the Engineer, is reasonable to allow for proper and thorough inspection, and to reduce traffic control and/or safety problems. The contractor shall not have more than three (3) locations "active" at any given time with a maximum of two (2) of those locations being Major Streets. A location is "active" if work on the street has begun, and it has not yet complete. Regard combined streets shown on the Schedule of Streets as one (1) location.

The City expects to furnish the Contractor with two (2) copies of the Contract, for its execution, on or before **April 9, 2018**. 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, 2018**. 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 7, 2017**, 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 14, 2017**, 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 **October 27, 2018**. 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 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 completion of the work for each street, for each calendar day the work remains incomplete beyond the required contract completion date.

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, 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), nor shall it relieve the Contractor of any responsibilities for completion of work on any other street(s).

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



CITY OF ANN ARBOR ENGINEERING

STREET RESURFACING PROJECT - 2018

ITB No. 4529 FILE No. 2018004

NOTES:

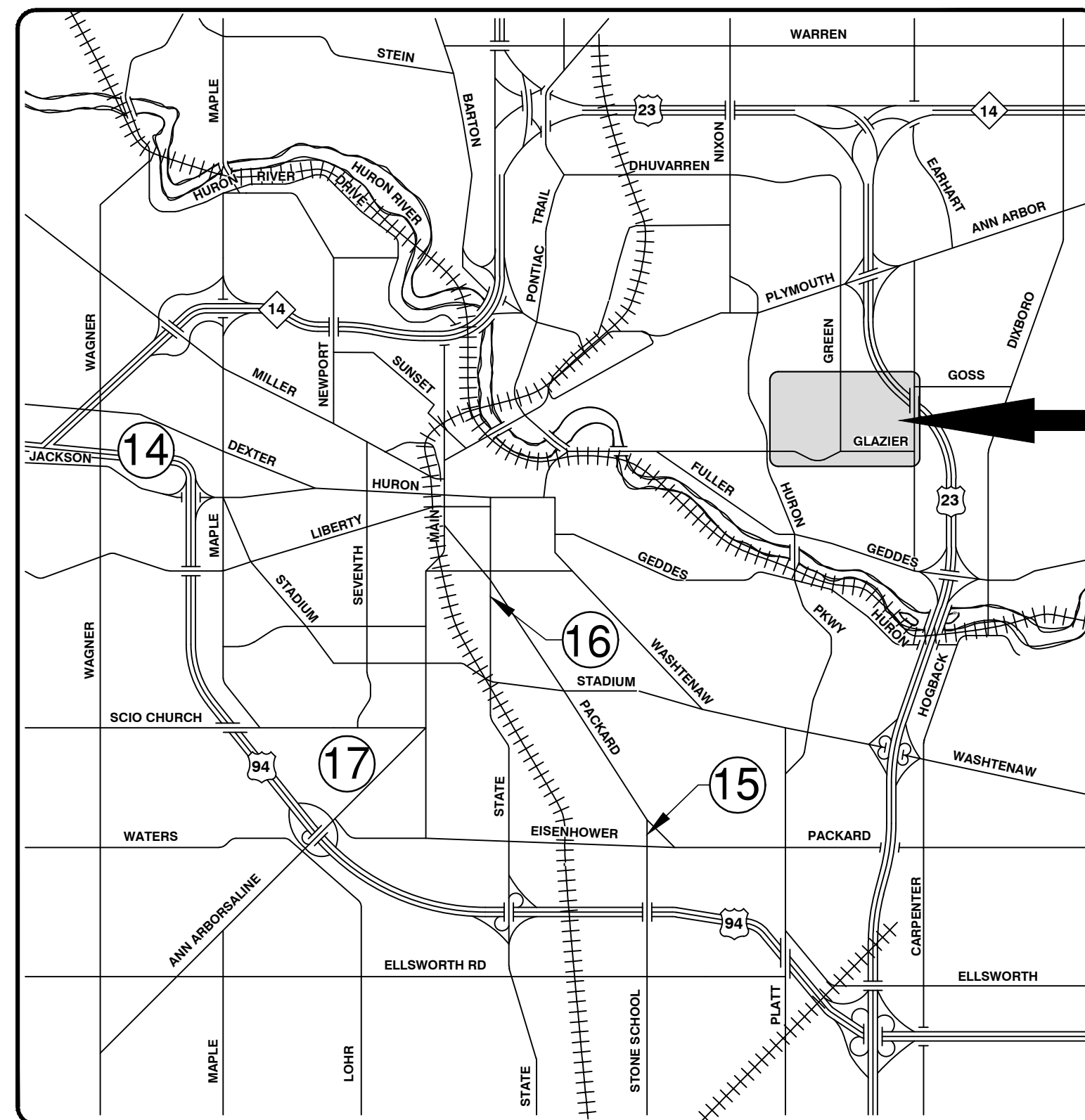
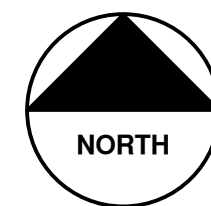
FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY 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.

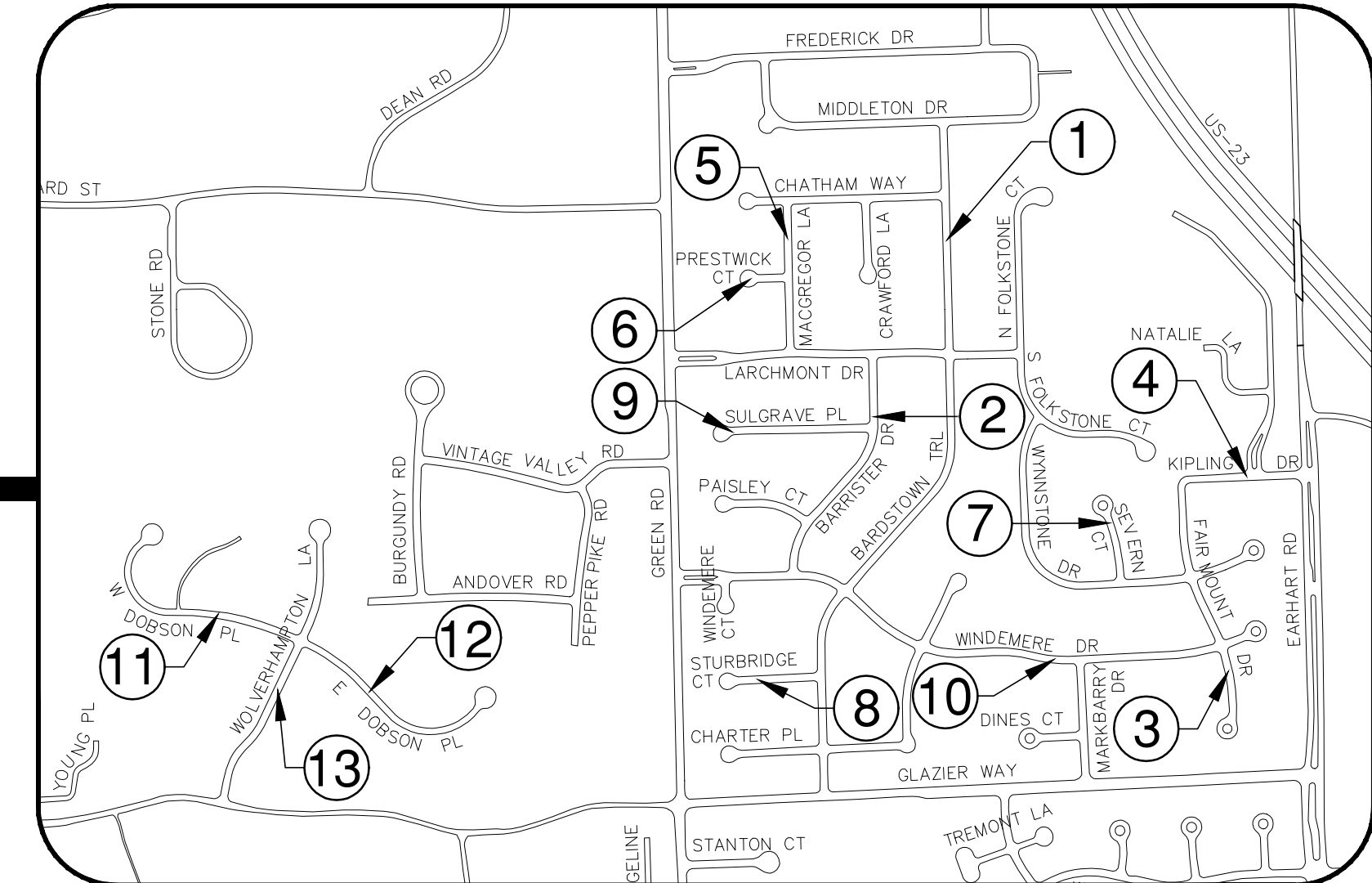
THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

SHEET INDEX

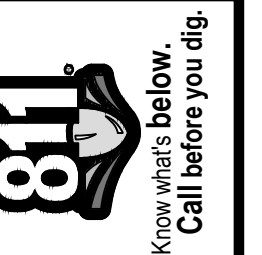
SHEET NO.	TITLE	MAP INDEX NO. (THIS SHEET)
1	COVER SHEET	
2	NOTES AND MISCELLANEOUS QUANTITIES	
3	SOIL EROSION AND SEDIMENTATION CONTROL (SESC) NOTES AND DETAILS	
4	DETAILS	
5	TRAFFIC CALMING DETAIL	
7-11	BARDSTOWN TRAIL	1
12-13	BARRISTER DRIVE	2
14-16	FAIRMOUNT DRIVE	3
17-18	KIPLING DRIVE	4
19-20	MACGREGOR LANE	5
21-22	PRESTWICK COURT	6
23-24	SEVERN COURT	7
25-26	STURBRIDGE COURT	8
27-28	SULGRAVE PLACE	9
29-32	WINDEMERE DRIVE & COURT	10
33-34	WEST DOBSON PLACE	11
35-36	EAST DOBSON PLACE	12
37-39	WOLVERHAMPTON LANE	13
40-58	EB & WB JACKSON AVENUE	14
59-65	STONE SCHOOL ROAD	15
66-71	SOUTH STATE STREET	16
72-77	ANN ARBOR - SALINE RD SHARED USE PATH	17



VICINITY MAP

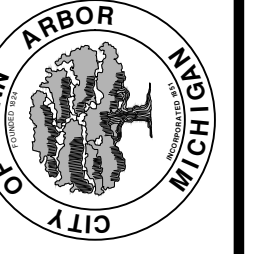


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD

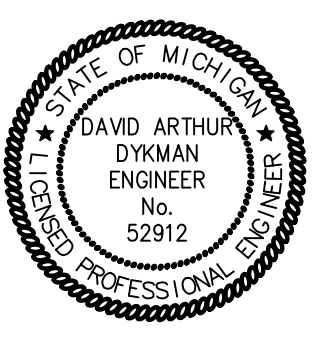
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2018
MAJOR AND LOCAL STREET RESURFACING
COVER SHEET

SCALE
DRAWING No.
2018004-1
SHEET No.
1 OF 77

PREPARED UNDER THE SUPERVISION OF
David Arthur Dykman
DAVID ARTHUR DYKMAN, P.E. - MI LICENSE No. 52912
PROJECT MANAGER
03 / 23 / 2018
DATE



© STREET RESURFACING PROJECT - 2018 ; ITB No. 4529

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GENERAL NOTES:

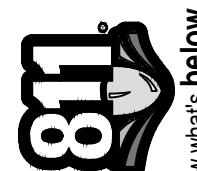
1. Driveways and entrances to buildings, real property, and the like shall not be blocked except for short durations and only when approved by the Engineer. Vehicular and pedestrian access shall be maintained at all times. It shall be the Contractor's responsibility to coordinate all necessary driveway 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. Where existing drainage or utility structures, whether shown or not on the plans, are designated or directed by the Engineer to receive new castings (cover and frame) the existing castings shall be neatly stacked on-site in a single location so that City of Ann Arbor forces can retrieve them at a later date. The Contractor shall assist City forces by loading them into City trucks. All costs associated with storing, stockpiling, and loading castings into City vehicles shall be included in the contract pay item "Dr Structure Cover, Type_, Modified".
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 3.25' below the top of pavement.
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" (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" (minimum) Granular Material Class II compacted to 95% of its max. dry density under concrete driveway approaches, and 6" (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
* NO COST TO CONTRACTOR	

CONTACT INFORMATION

PUBLIC UTILITIES	OWNER	CONTACT
WATER		
SANITARY		
STORM	CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	(734) 794-6350
FORESTRY		
SIGNS SIGNALS STREET LIGHTS		(734) 794-6361
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	CLAY COMBEE (734) 397-4112
STREET LIGHTING	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	BRANDON FARON (734) 397-4017
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	(734) 996-2135
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016




Know what's below.
Call before you dig.

DAD	DAD	DAD	CHECKED
3-23-18	3-15-18	2-27-18	DATE
01	01	00	REV.

DESCRIPTION

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



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2018

NOTES & MISCELLANEOUS QUANTITIES

SCALE
DRAWING No. 2018004-2

SHEET No.
2 OF 77



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

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:

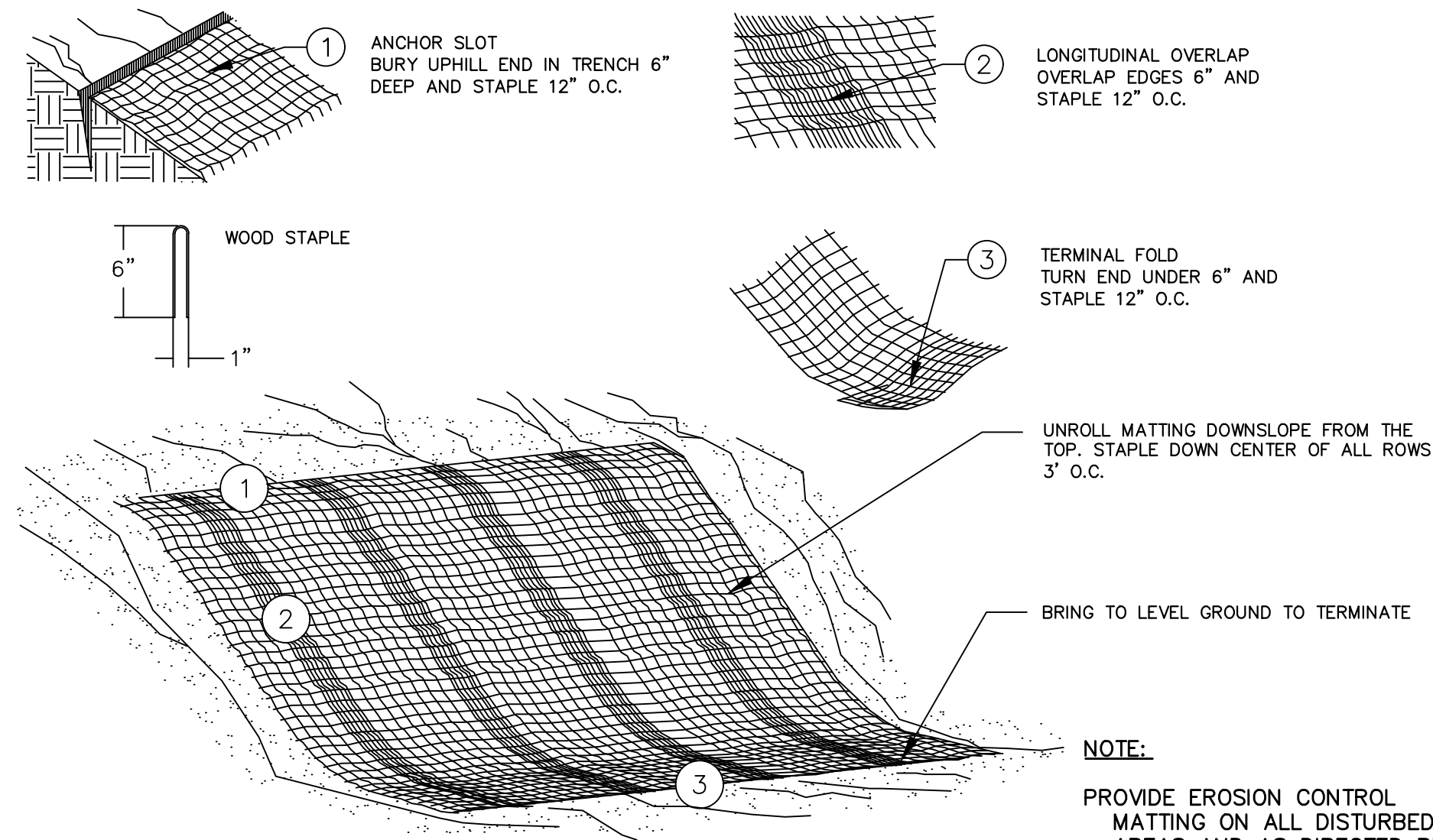
- 1.1. INSTALL SILT FENCE, TREE PROTECTION FENCING, MUD MATS, INLET FILTERS ON EXISTING DRAINAGE FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- 1.2. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.
- 1.3. INSTALL WATER MAINS, STORM 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.

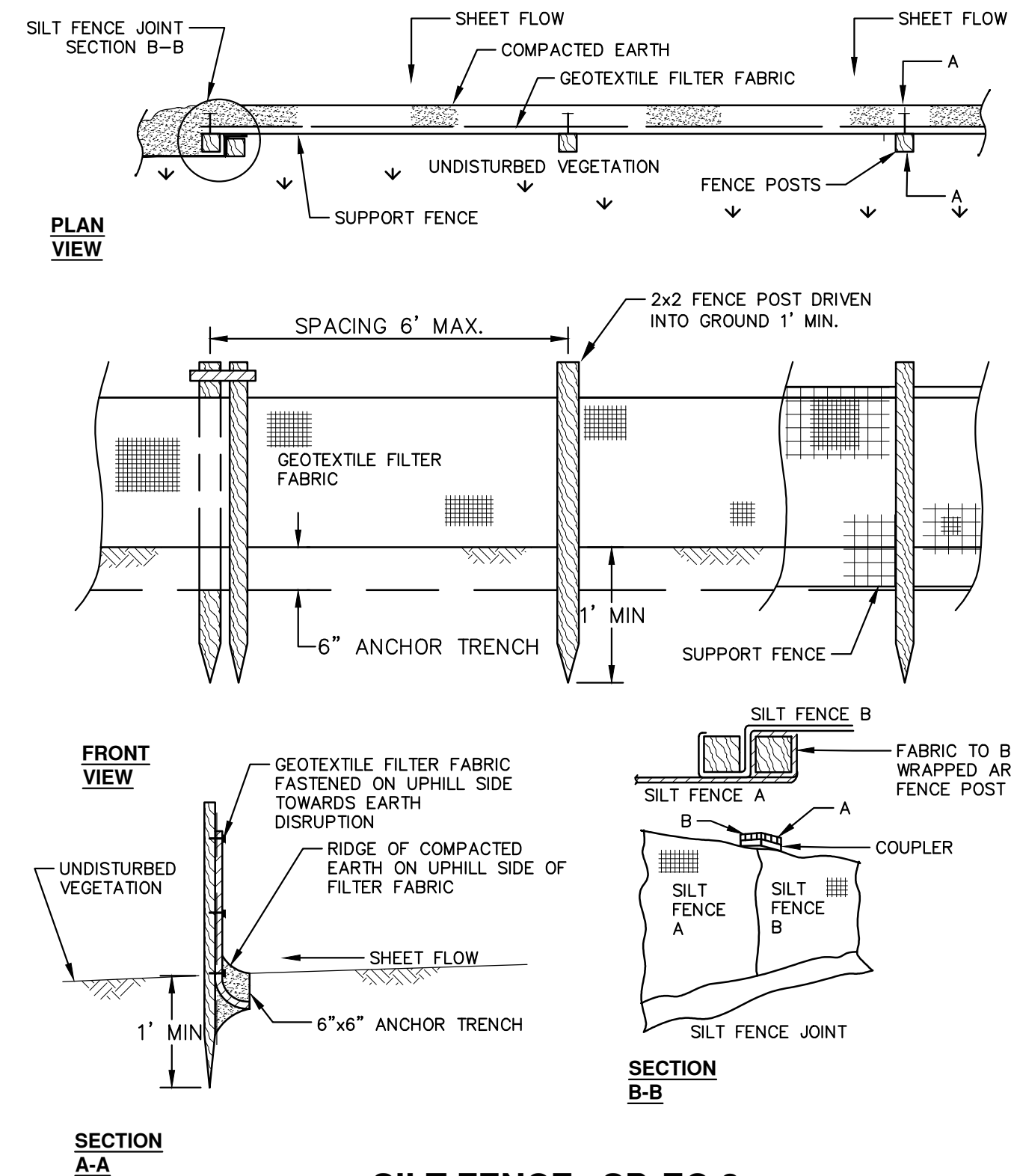
TEMPORARY SEEDING:

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.



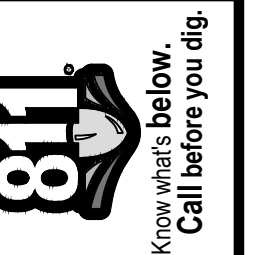
MULCH BLANKET DETAIL

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



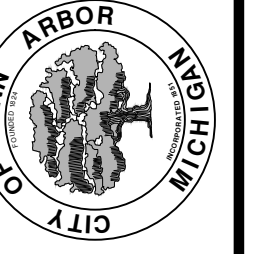
SILT FENCE SD-EC-3

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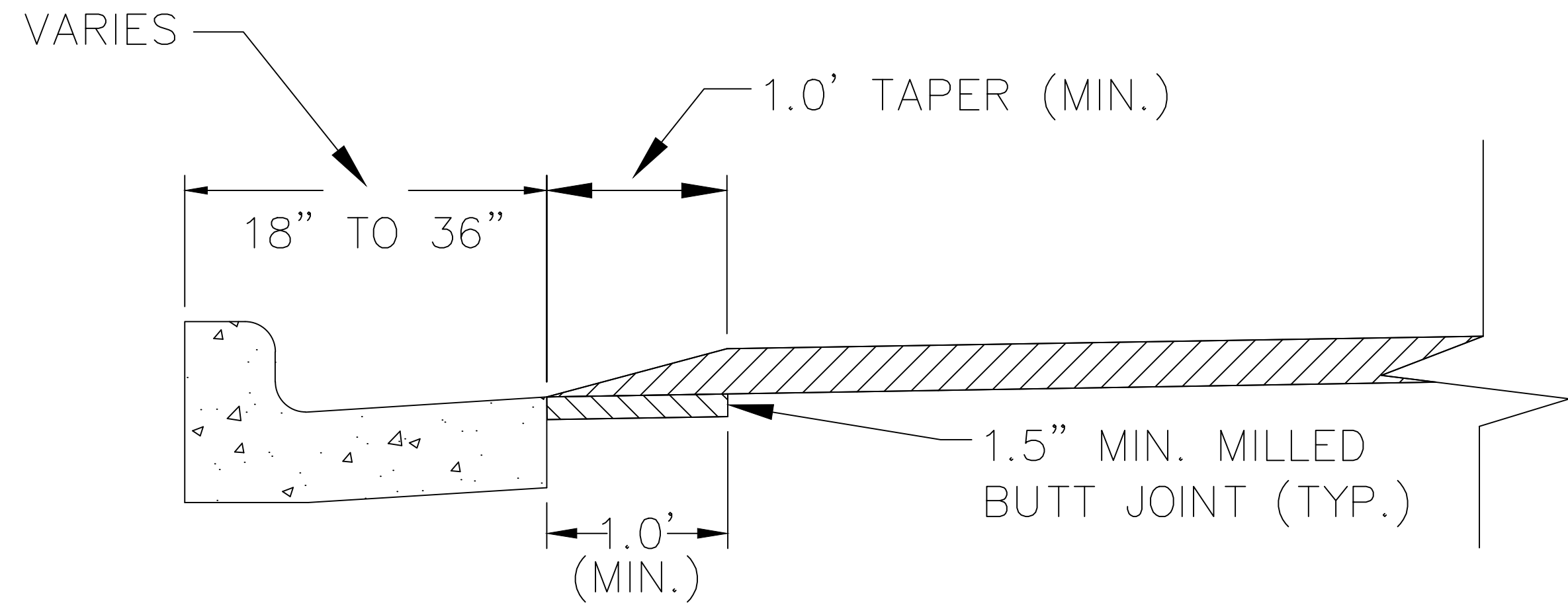
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01	ADDENDUM #2			REV.
01	ADDENDUM #1			
00	BID SET			
				DESCRIPTION

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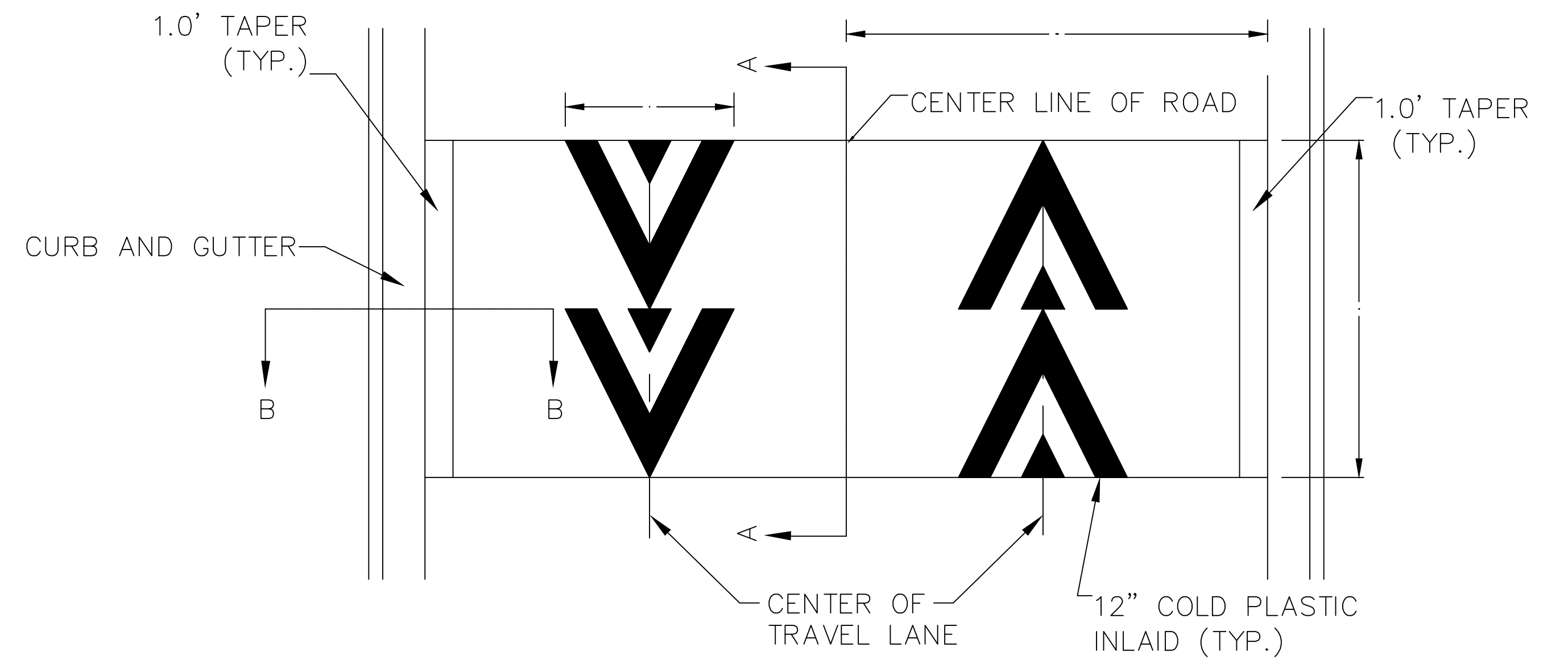


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2018
SESC NOTES & DETAILS

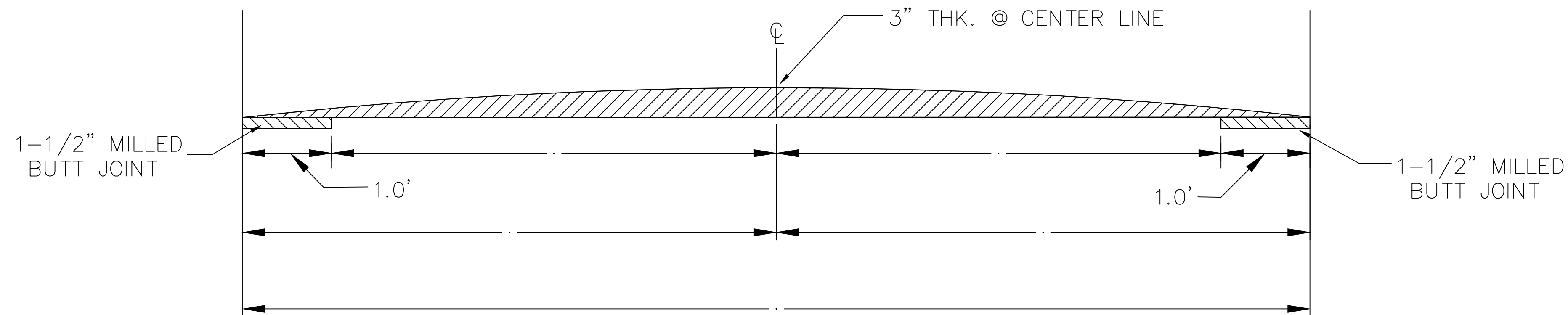
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DRAWING No. 2018004-3
SHEET No.



SPEED HUMP CROSS SECTION
SECTION B-B



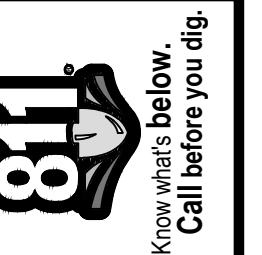
PAVEMENT MARKING DETAIL



SPEED HUMP CROSS SECTION
SECTION A-A

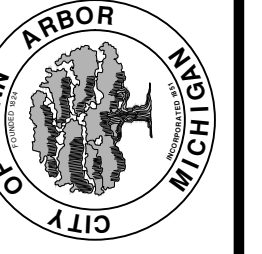
GENERAL NOTES

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	3-23-18	ADDENDUM #2	GSCE	DAD
01	3-15-18	ADDENDUM #1	GSCE	DAD
00	2-27-18	BID SET	GSCE	DAD

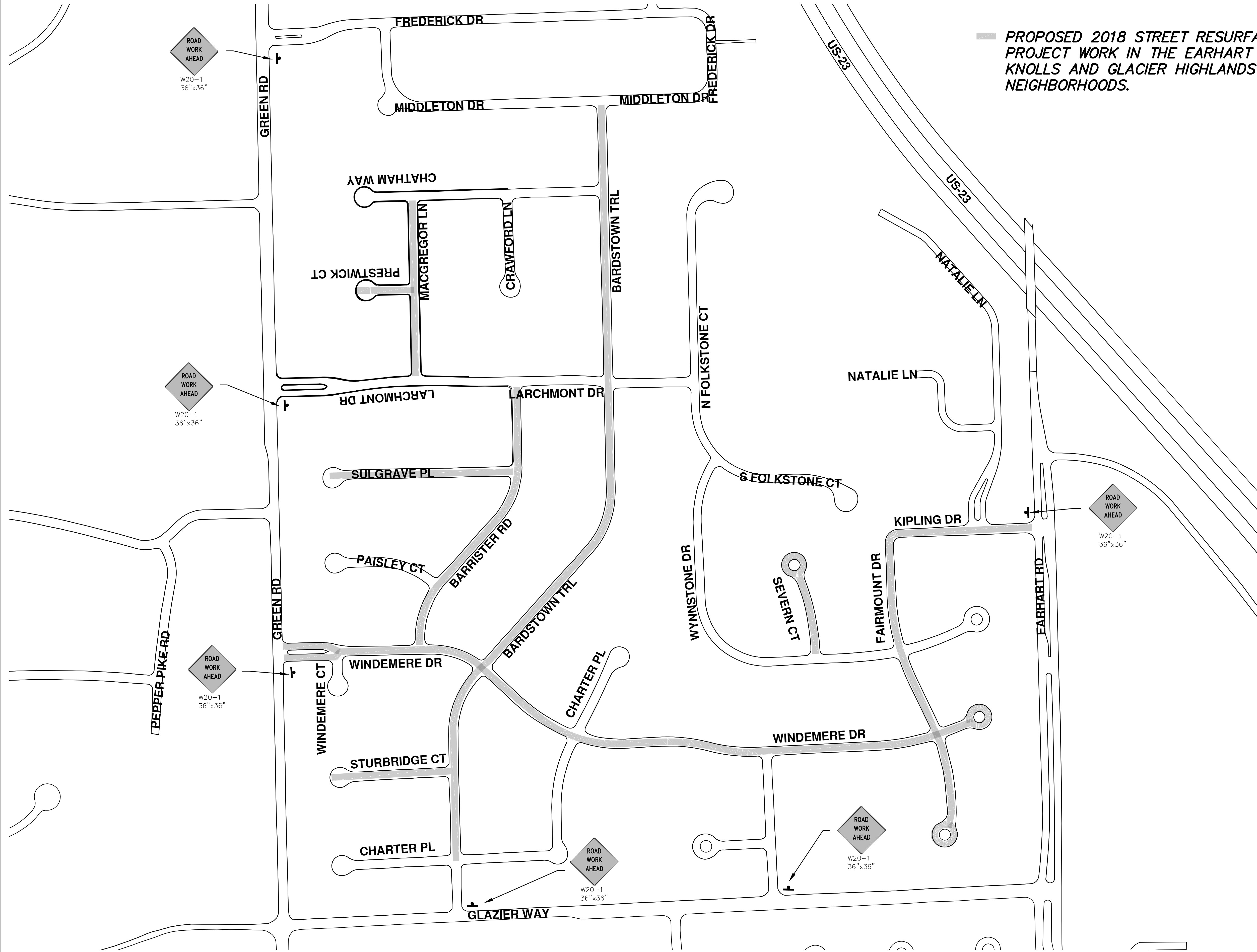
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-0647
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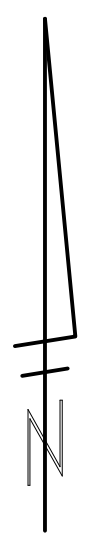
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
TRAFFIC CALMING DETAIL

SCALE PLAN: NONE
DRAWING No. 2018004-5

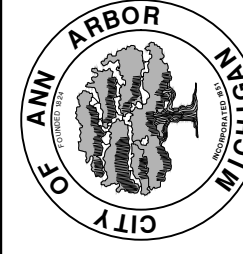
T:\2018004\Plan Production\2018004 - MacGregor Lane.dwg Dwg Created: 22-Sep-17 - _a2 standard bw.stb - Plot Date: 23-Mar-18



— PROPOSED 2018 STREET RESURFACING PROJECT WORK IN THE EARHART KNOLLS AND GLACIER HIGHLANDS NEIGHBORHOODS.



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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
LOCAL AREA TRAFFIC PLAN

SCALE PLAN: Custom
DRAWING No. 2018004-6

REV.	DATE	DESCRIPTION
01	3-23-18	DAD
01	3-15-18	DAD
00	2-27-18	DAD



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: BARDSTOWN TRAIL

ITB No. 4529 FILE No. 2018004

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET CONCURRENTLY WITH THAT PROPOSED FOR STURBRIDGE COURT IN ACCORDANCE WITH THE SCHEDULE OF STREETS. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK.
- UPON RECEIVING MISS DIG SITE CLEARANCE 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 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 3.5 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 DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- 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 (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL NO PARKING SIGNS (AS REQUIRED), TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.
- OPEN STREET TO ALL TRAFFIC.

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	Units	Quantity
2030011	Dr Structure, Rem	Ea	19.000
2030015	Sewer, Rem, Less than 24 inch	Ft	190.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	2341.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	465.000
2057011	Grading, Driveway Approach	Syd	434.000
2057011	Grading, Sidewalk	Syd	23.000
2057011	Grading, Sidewalk Ramp	Syd	8.000
2057011	Machine Grading, Special	Syd	10103.000
2057021	Subgrade Undercutting, Type IIA	Cyd	992.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	35.000
3020001	Aggregate Base	Ton	93.000
3020050	Aggregate Base, Conditioning	Syd	10103.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	190.000
4030200	Dr Structure, 24 inch dia	Ea	19.000
4037001	Dr Structure, Adj, Add Depth, Modified	Ft	2.000
4037050	Dr Structure Cover, Type B, Modified	Ea	20.000
4037050	Dr Structure Cover, Type K, Modified	Ea	23.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	34.000
4037050	Dr Structure, Double Inlet	Ea	1.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	32.000
4047001	Underdrain, Subgrade, 6 inch, Special	Ft	380.000
5010003	Cold Milling HMA Surface	Ton	10103.000
5010005	HMA Surface, Rem	Syd	319.000
5010061	HMA, Approach	Ton	48.000
5010703	HMA, LVSP	Ton	2175.000
5017031	HMA, Wedging, 36A	Ton	33.000
6027021	Flowable Fill	Cyd	44.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	434.000
8027001	Curb and Gutter, Conc, Barrier	Ft	1545.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	836.000
8037001	Detectable Warning Surface, Modified	Ft	20.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	72.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	125.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	75.000
8117001	Pav Mrkg, Wet Retripec Polyurea, 12 inch, Crosswalk	Ft	400.000
8117001	Pav Mrkg, Thermopl, 4 inch, Parking Sym, White	Ft	60.000
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
8120260	Plastic Drum, High Intensity, Furn	Ea	156.000
8120261	Plastic Drum, High Intensity, Oper	Ea	156.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	205.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	205.000
8127050	No Parking Sign	Ea	78.000
8167011	Slope Restoration	Syd	626.000
8230431	Gate Box, Adj, Case 1	Ea	3.000

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
9.0	D3-1	Street Name Sign	4.000	36.000
7.0	R11-3a	Road Closed Sign ("Road Closed Local Traffic Only")	12.500	88.000
9.0	W20-3	Road Closed Ahead Sign	9.000	81.000
TOTAL				205.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	Dr Structure, Adj, Case 1, Modified Dr Structure, Adj, Case 2, Modified Dr Structure, Temp Lowering, Modified
AB	Dr Structure, Temp Lowering, Modified Gate Box, Adj, Case 1 Gate Box, Adj, Case 2 Monument Box Adjust
ADST	Dr Structure, Adj, Add Depth, Modified
AK	Dr Structure, Adj, Case 1, Modified
C4	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Grading, Sidewalk Sidewalk, Conc, 4 inch, Modified
C4HE	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Grading, Sidewalk Cement Sidewalk, Conc, 4 inch, Modified
C6	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Grading, Sidewalk Grading, Sidewalk Ramp Detectable Warning Surface, Modified Sidewalk Ramp, Conc, 6 inch, Modified Sidewalk, Conc, 6 inch, Modified
C8	Grading, Driveway Approach Driveway, Nonreinf Conc, 8 inch, Modified
C HE	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Grading, Driveway Approach Grading, Sidewalk Grading, Sidewalk Ramp Cement Driveway, Nonreinf Conc, 6 inch, Modified Driveway, Nonreinf Conc, 8 inch, Modified Detectable Warning Surface, Modified Sidewalk Ramp, Conc, 6 inch, Modified Sidewalk, Conc, 6 inch, Modified
C/G	Curb, Gutter, and Curb and Gutter, Any Type, Rem Curb and Gutter, Conc
C/GHE	Curb, Gutter, and Curb and Gutter, Any Type, Rem Cement Driveway Opening, Conc, Det M, Modified
CP	Grading, Sidewalk Sidewalk, Conc, 4 inch, Modified
CR	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Dr Structure, Rem
DS	Sewer, Rem, Less than 24 inch Dr Structure, 24 inch dia
DSDI	Dr Structure, Rem Sewer, Rem, Less than 24 inch Dr Structure, Double Inlet
PT	Dr Structure, Point
RRA	Dr Structure Cover, Type B Dr Structure Cover, Type B, Special Dr Structure, Adj, Case 1, Modified Dr Structure, Temp Lowering, Modified
RRK	Dr Structure Cover, Type K Dr Structure, Adj, Case 1, Modified
RS	Dr Structure, Reconstruct
TYPE II	Plastic Drum, High Intensity, Lighted, Furn Plastic Drum, High Intensity, Lighted, Oper
TYPE III	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn Barricade, Type III, High Intensity, Double Sided, Lighted, Oper



ADDENDUM #	DATE	DESCRIPTION
01	3-23-18	
01	3-15-18	
00	2-27-18	

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
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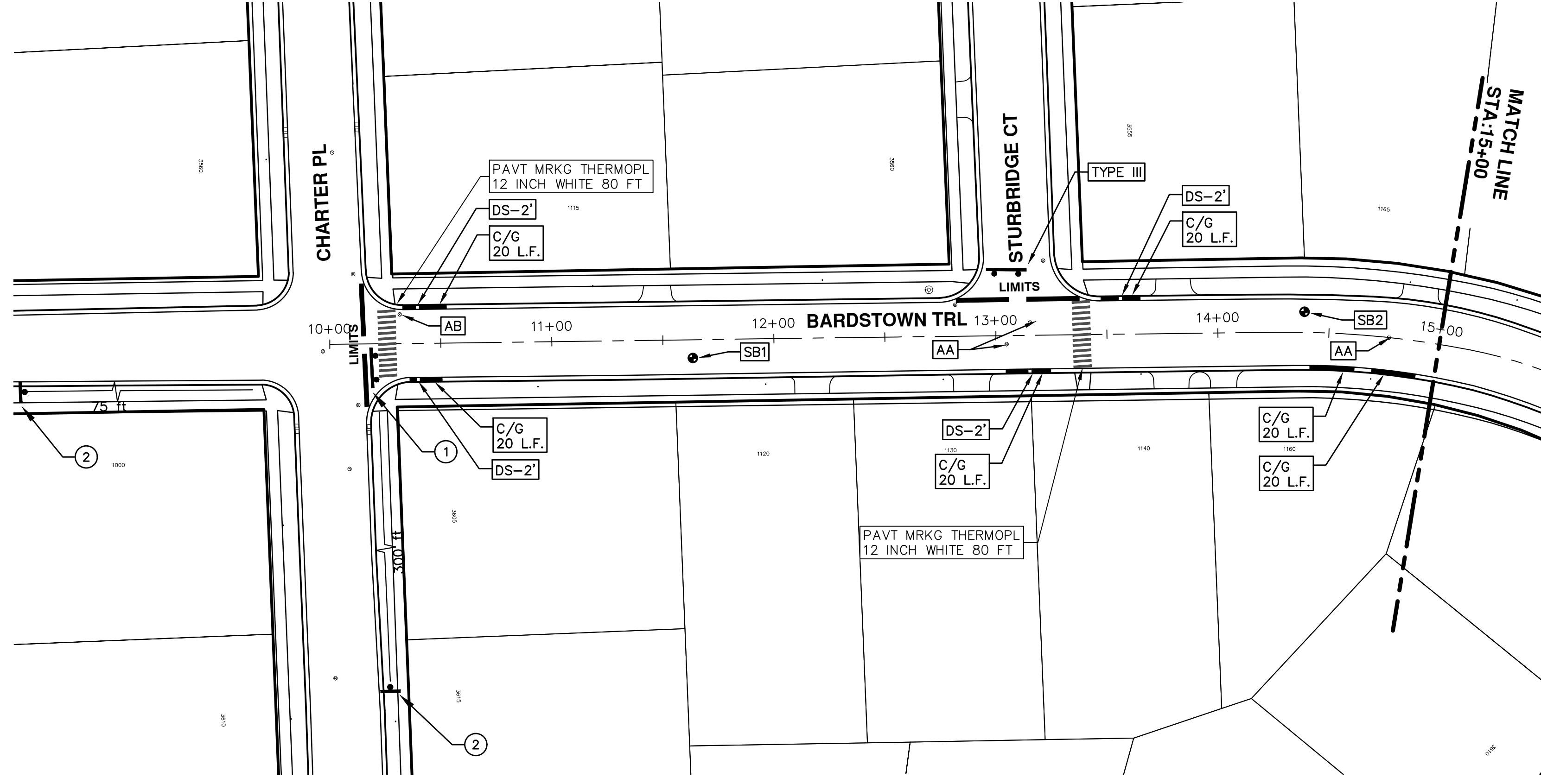
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
BARDSTOWN TRAIL



SCALE
DRAWING No.
2018004-7



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CITY OF ANN ARBOR PUBLIC SERVICES
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ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

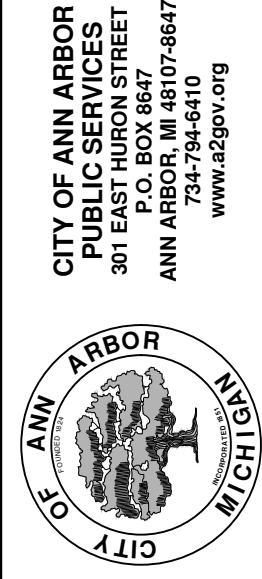
T:\2018004\Plan Production\2018004 - Bardstown Trail.dwg Dwg Created: 21-Sep-17 - _02 standard bw.stb - Plot Date: 23-Mar-18



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 W/ TYPE III BARRICADE	R11-3a 60x30"
②	 BARDSTOWN TRL	W20-3 36"x36" D3-1 36"x36"

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: Custom
 DRAWING No. 2018004-8

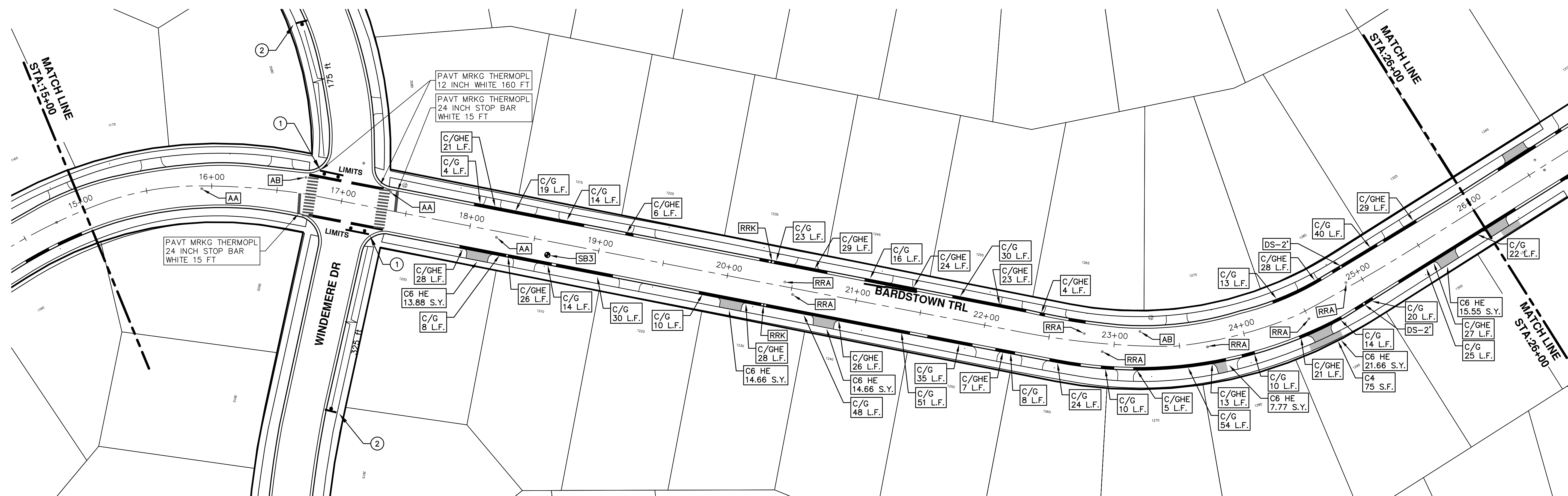
STREET RESURFACING PROJECT - 2018
 BARDSTOWN TRAIL
 STA. 10+00 - STA. 15+00



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD



T:\2018004\Plan Production\2018004 - Bardstown Trail.dwg Dwg Created: 21-Sep-17 - _g2 standard bw.stb - Plot Date: 23-Mar-18



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60x30"
②	ROAD CLOSED AHEAD BARDSTOWN TRL	W20-3 36"x36" D3-1 36"x36"

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
BARDSTOWN TRAIL

SCALE PLAN: 1"=80'
DRAWING No. 2018004-9

SHEET No. 9 OF 77

STA. 15+00 - STA. 26+00

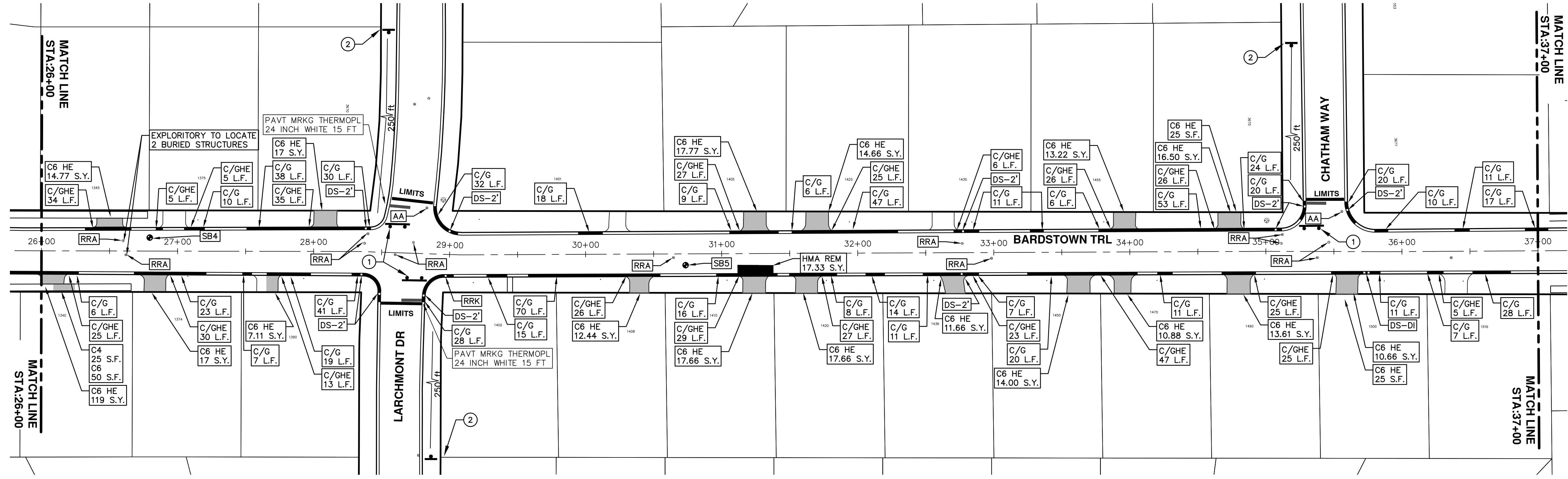
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR MI 48106-0647
www.a2gov.org

REV.	DATE	DESCRIPTION
01	3-23-18	ADDENDUM #2
01	3-15-18	ADDENDUM #1
00	2-27-18	BID SET

DAD DAD DAD DAD
GSCCE GSCCE GSCCE GSCCE
DRAWN CHECKED
DAD DAD

Know what's below.
Call Before you dig.

T:\2018004\Plan Production\2018004 - Bardstown Trail.dwg Dwg Created: 21-Sep-17 - _02 standard bw.stb - Plot Date: 23-Mar-18



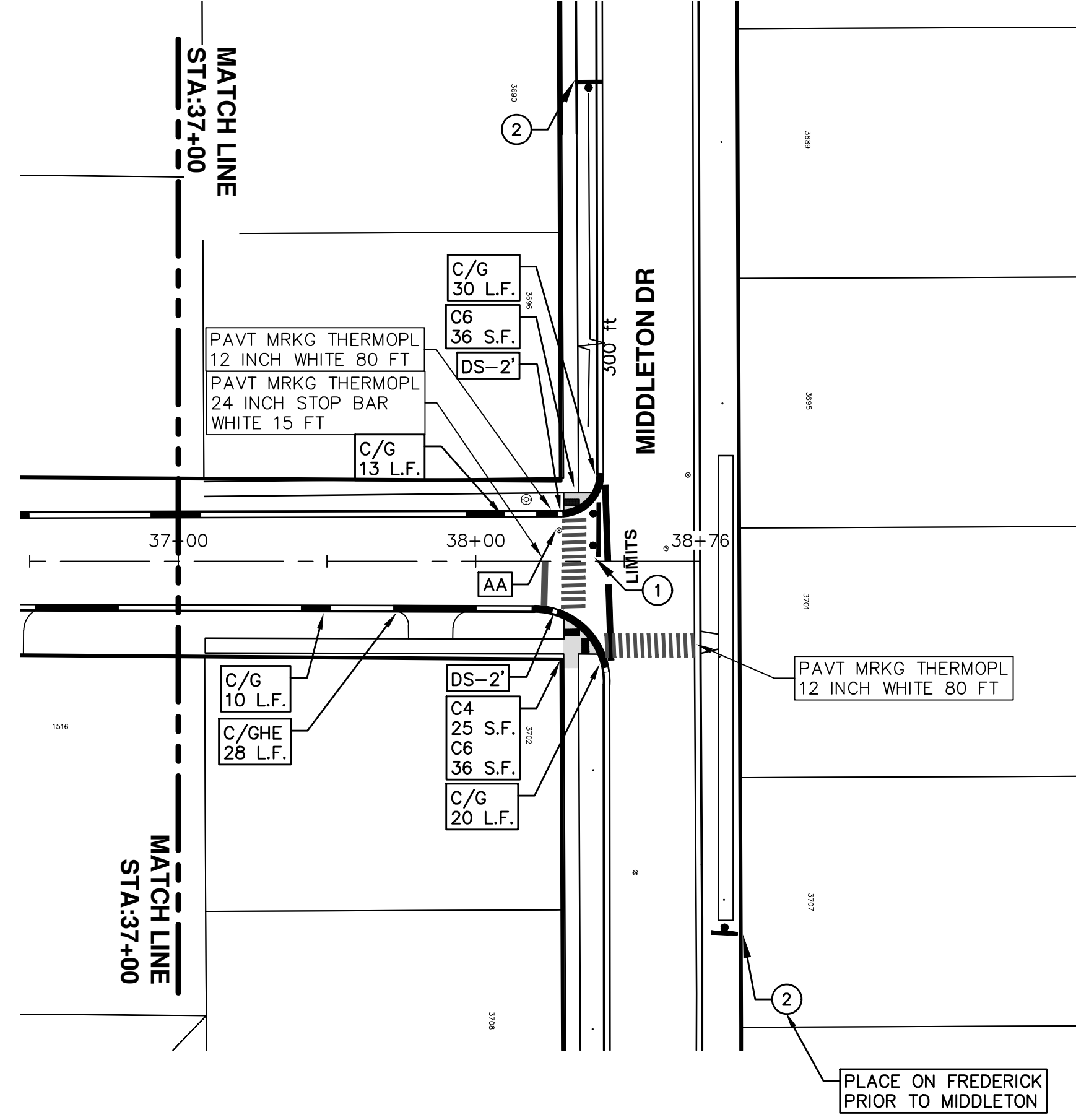
TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3c 60x30"
②	 ROAD CLOSED AHEAD BARDSTOWN TRL	W20-3 36"x36" D3-1 36"x36"



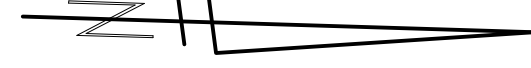
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD

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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
BARDSTOWN TRAIL



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 W/ TYPE III BARRICADE	R11-3a 60x30"
②	 BARDSTOWN TRL	W20-3 36"x36" D3-1 36"x36"



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: BARRISTER DRIVE

ITB No. 4529 FILE No. 2018004

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET CONCURRENTLY WITH THAT PROPOSED FOR SULGRAVE PLACE IN ACCORDANCE WITH THE SCHEDULE OF STREETS. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK.
- UPON RECEIVING MISS DIG SITE CLEARANCE 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 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 4.0 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 DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- 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 (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL NO PARKING SIGNS (AS REQUIRED), TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.
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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	Units	Quantity
2030011	Dr Structure, Rem	Ea	7.00
2030015	Sewer, Rem, Less than 24 inch	Ft	70.00
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	399.00
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	13.00
2057011	_Grading, Driveway Approach	Syd	13.00
2057011	_Machine Grading, Special	Syd	3690.00
2057021	_Subgrade Undercutting, Type IA	Cyd	370.00
2080036	Erosion Control, Silt Fence	Ft	12.00
3020050	Aggregate Base, Conditioning	Syd	3690.00
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	70.00
4030200	Dr Structure, 24 inch dia	Ea	7.00
4037050	_Dr Structure Cover, Type B, Modified	Ea	12.00
4037050	_Dr Structure Cover, Type K, Modified	Ea	7.000
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	140.000
5010003	Cold Milling HMA Surface	Ton	3,690.000
5010005	HMA Surface, Rem	Syd	45.890
5010061	HMA, Approach	Ton	17.890
5010703	HMA, LVSP	Ton	811.800
6027021	_Flowable Fill	Cyd	7.650
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	13.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	230.000
8027001	_Curb and Gutter, Conc, Mountable	Ft	183.000
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
8120260	Plastic Drum, High Intensity, Furn	Ea	45.000
8120261	Plastic Drum, High Intensity, Oper	Ea	45.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	77.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	77.000
8127050	_No Parking Sign	Ea	36.000
8167011	_Slope Restoration	Syd	51.000

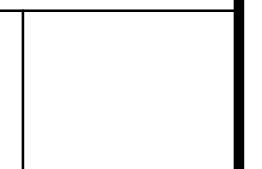
QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
4.0	D3-1	Street Name Sign	4.000	16.000
2.0	R11-3a	Road Closed Sign ("Road Closed Local Traffic Only")	12.500	25.000
4.0	W20-3	Road Closed Ahead Sign	9.000	36.000
TOTAL				77.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc, 6 inch, Modified • Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Dr Structure, Rem
DS	• Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • _Dr Structure, Double Inlet
PT	• _Dr Structure, Point
RRA	• Dr Structure Cover, Type B • _Dr Structure Cover, Type B, Special • _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• _Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper



ADDENDUM #	DATE	DESCRIPTION	REV.
01	3-23-18		
01	3-15-18		
00	2-27-18		

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



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
BARRISTER DRIVE

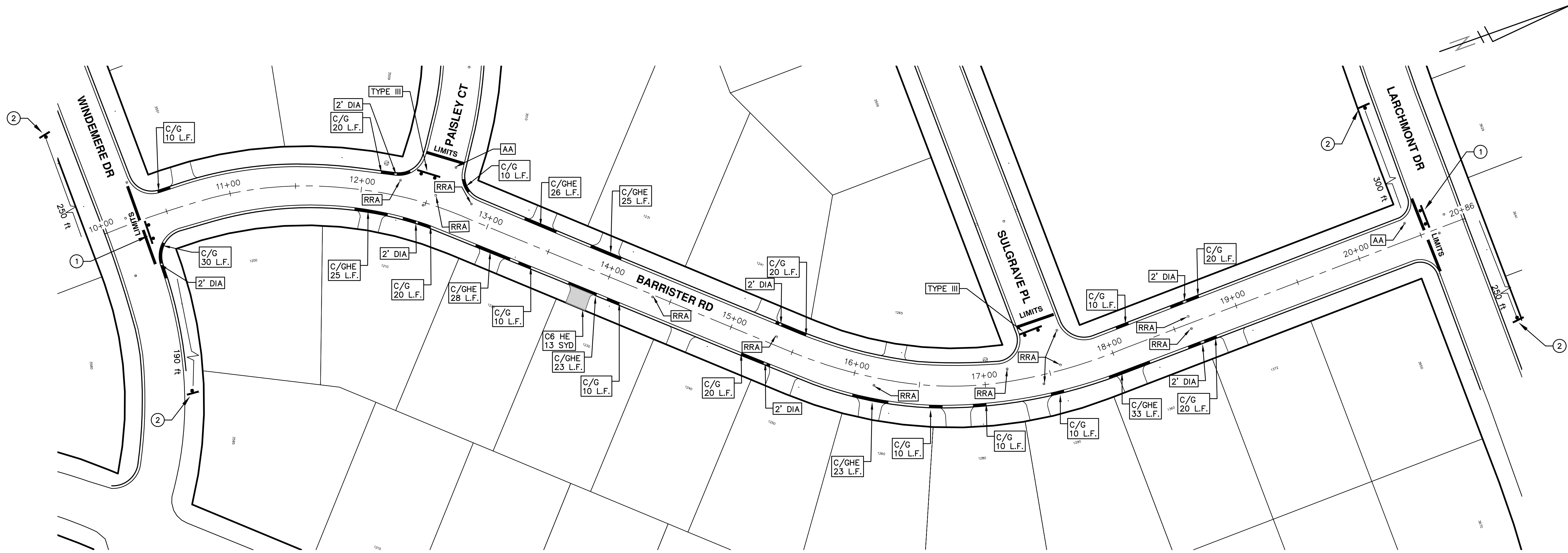
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DRAWING No.
2018004-12

SHEET No.
12 OF 77



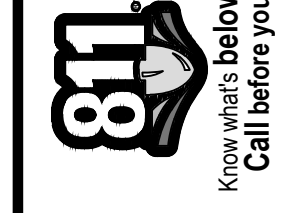
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CITY OF ANN ARBOR PUBLIC SERVICES
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ANN ARBOR, MICHIGAN 48107-8647
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T:\2018004\Plan Production\2018004 - Barrister Drive.dwg Dwg Created: 21-Sep-17 - _a2 standard bw.stb - Plot Date: 23-Mar-18



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60x30
②	 ROAD CLOSED AHEAD BARRISTER DR	W20-3 36"x36" D3-1 36"x36"

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD





CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: FAIRMOUNT DRIVE

ITB No. 4529 FILE No. 2018004

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET CONCURRENTLY WITH THAT PROPOSED FOR KIPLING DRIVE AND SEVERN COURT IN ACCORDANCE WITH THE SCHEDULE OF STREETS. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK.
- UPON RECEIVING MISS DIG SITE CLEARANCE 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 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 3.5 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 DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- 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 (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL NO PARKING SIGNS (AS REQUIRED), TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.
- OPEN STREET TO ALL TRAFFIC.

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	Units	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	82.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	7.000
2057011	_Grading, Driveway Approach	Syd	7.000
2057011	_Machine Grading, Special	Syd	4,119.000
2057021	_Subgrade Undercutting, Type IIA	Cyd	412.000
2080036	Erosion Control, Silt Fence	Ft	14.000
3020050	Aggregate Base, Conditioning	Syd	4,119.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	5.000
4037050	_Dr Structure Cover, Type C, Modified	Ea	1.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	8.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	7.000
5010003	Cold Milling HMA Surface	Ton	4,119.000
5010005	HMA Surface, Rem	Syd	10.000
5010061	HMA, Approach	Ton	49.000
5010703	HMA, LVSP	Ton	906.000
6027021	_Flowable Fill	Cyd	2.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	7.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	40.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	42.000
8110218	Pav Mrg, Thermopl, 24 inch, Stop Bar	Ft	30.000
8110197	Pav Mrg, Thermopl, 6 inch, Crosswalk	Ft	420.000
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
8120260	Plastic Drum, High Intensity, Furn	Ea	55.000
8120261	Plastic Drum, High Intensity, Oper	Ea	55.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	76.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	76.000
8127050	_No Parking Sign	Ea	41.000
8167011	_Slope Restoration	Syd	76.000
8230431	Gate Box, Adj, Case 1	Ea	2.000

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
2.0	D3-1	Street Name Sign	4.000	8.000
4.0	R11-3a	Road Closed Sign ("Road Closed Local Traffic Only")	12.500	50.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
TOTAL			25.500	76.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Dr Structure, Rem
DS	• Sewer, Rem, Less than 24 inch • _Dr Structure, 24 inch dia
DSDI	• _Dr Structure, Rem • Sewer, Rem, Less than 24 inch • _Dr Structure, Double Inlet
PT	• _Dr Structure, Point
RRA	• _Dr Structure Cover, Type B • _Dr Structure Cover, Type B, Special • _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Temp Lowering, Modified
RRK	• _Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• _Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper



REV.	DATE	DESCRIPTION
01	3-23-18	ADDENDUM #2
01	3-15-18	ADDENDUM #1
00	2-27-18	BID SET
		DRAWN
		CHECKED

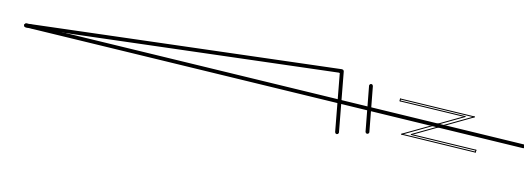
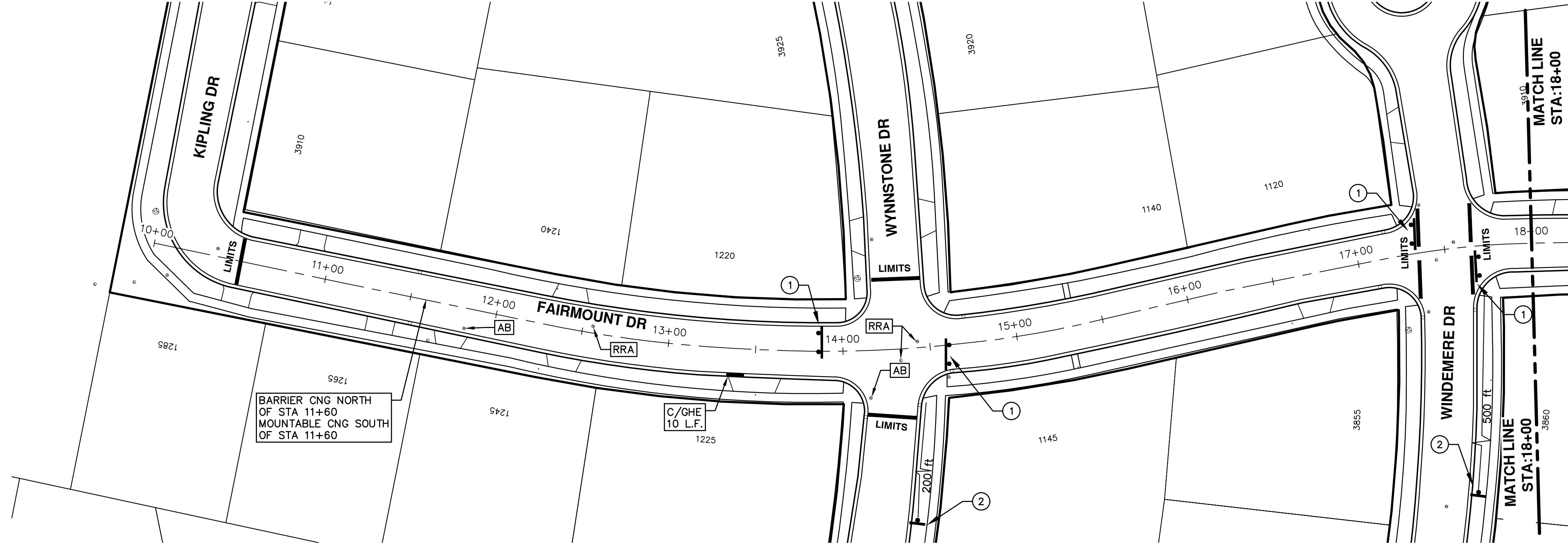
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PUBLIC SERVICES
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
FAIRMOUNT DRIVE

SCALE
DRAWING No. 2018004-14
SHEET No. 14 OF 77

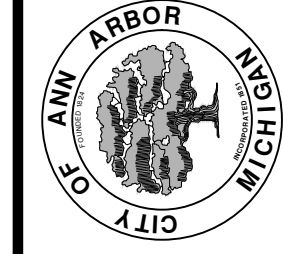
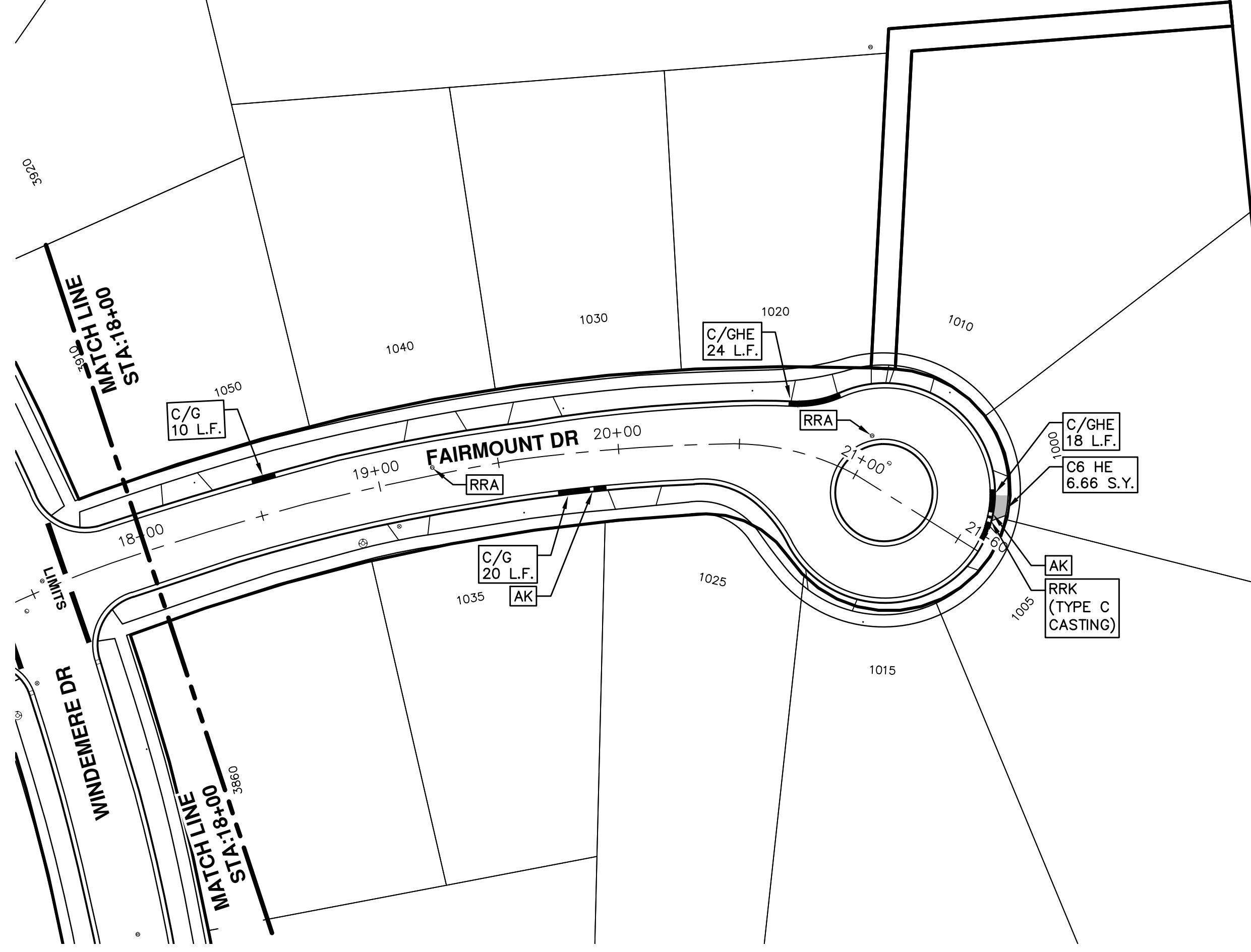


ENGINEERING
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 W/ TYPE III BARRICADE	R11-3a 60"x30"
②	 FAIRMOUNT DR	W20-3 36"x36" D3-1 36"x36"

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD



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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD





CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: KIPLING DRIVE

ITB No. 4529 FILE No. 2018004

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET CONCURRENTLY WITH THAT PROPOSED FOR FAIRMOUNT DRIVE AND SEVERN COURT IN ACCORDANCE WITH THE SCHEDULE OF STREETS. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK.
- UPON RECEIVING MISS DIG SITE CLEARANCE 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 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 3.0 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 DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- 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 (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL NO PARKING SIGNS (AS REQUIRED), TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.
- OPEN STREET TO ALL TRAFFIC.

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	Units	Quantity
2030011	Dr Structure, Rem	Ea	2.00
2030015	Sewer, Rem, Less than 24 inch	Ft	20.00
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	331.00
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	157.00
2057011	_Grading, Driveway Approach	Syd	70.00
2057011	_Grading, Sidewalk	Syd	34.00
2057011	_Grading, Sidewalk Ramp	Syd	43.00
2057011	_Machine Grading, Special	Syd	1750.00
2057021	_Subgrade Undercutting, Type IIA	Cyd	176.00
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	6.00
3020050	Aggregate Base, Conditioning	Syd	1750.00
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	20.00
4030200	Dr Structure, 24 inch dia	Ea	2.00
4037050	_Dr Structure Cover, Type B, Modified	Ea	5.00
4037050	_Dr Structure Cover, Type K, Modified	Ea	5.00
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	8.00
4037050	_Dr Structure, Temp Lowering, Modified	Ea	5.00
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	40.00
5010003	Cold Milling HMA Surface	Ton	1750.00
5010005	HMA Surface, Rem	Syd	37.00
5010703	HMA, LVSP	Ton	385.00
6027021	_Flowable Fill	Cyd	7.00
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	53.00
8017011	_Driveway, Nonreinf Conc, 8 inch, Modified	Syd	18.00
8027001	_Curb and Gutter, Conc, Barrier	Ft	142.00
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	189.00
8037001	_Detectable Warning Surface, Modified	Ft	18.00
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sf	265.00
8037010	_Sidewalk, Conc, 4 inch, Modified	Sf	300.00
8110197	Pav Mrg, Thermopl, 6 inch, Crosswalk	Ft	120.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.00
8120260	Plastic Drum, High Intensity, Furn	Ea	30.00
8120261	Plastic Drum, High Intensity, Oper	Ea	30.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sf	77.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sf	77.00
8127050	_No Parking Sign	Ea	17.00
8167011	_Slope Restoration	Syd	60.00

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sf)	Total Area
4.0	D3-1	Street Name Sign	4.000	16.000
2.0	R11-3a	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	25.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
TOTAL				77.00

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Grading, Sidewalk Ramp • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Dr Structure, Rem
DS	• Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • _Dr Structure, Double Inlet
PT	• _Dr Structure, Point
RRA	• Dr Structure Cover, Type B • _Dr Structure Cover, Type B, Special • _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• _Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper



ADDENDUM #2	ADDENDUM #1	BID SET	DATE	DRAWN	CHECKED
01	3-23-18				
01	3-15-18				
00	2-27-18				

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
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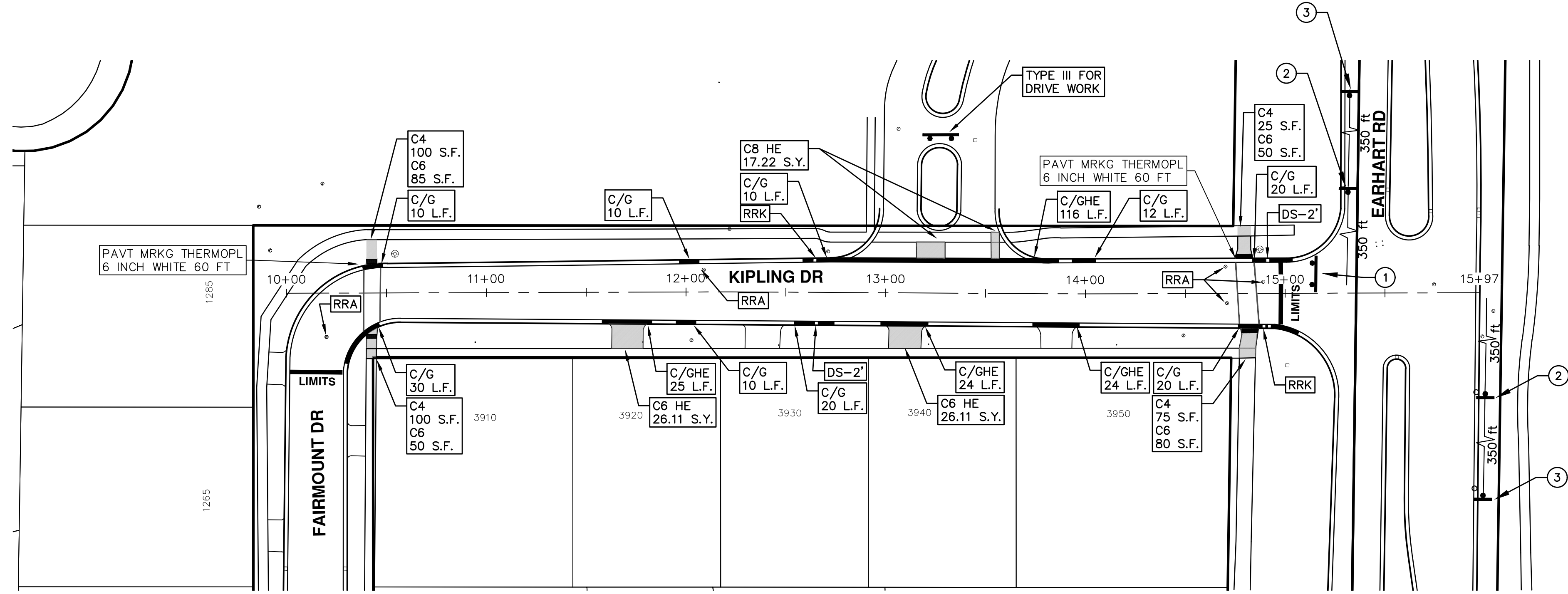


ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
KIPLING DRIVE

SCALE
DRAWING No. 2018004-17
SHEET No. 17 OF 77



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



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①		R11-3a 60x30
②		W20-3 36"x36" D3-1 36"x36"
③		W20-1 36"x36" D3-1 36"x36"

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: MACGREGOR LANE

ITB No. 4529 FILE No. 2018004

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET CONCURRENTLY WITH THAT PROPOSED FOR PRESTWICK COURT IN ACCORDANCE WITH THE SCHEDULE OF STREETS. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK.
- UPON RECEIVING MISS DIG SITE CLEARANCE 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 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 3.5 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 DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- 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 (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL NO PARKING SIGNS (AS REQUIRED), TRAFFIC CONTROL DEVICES, 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	Units	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	295.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	76.000
2057011	_Grading, Driveway Approach	Syd	76.000
2057011	_Machine Grading, Special	Syd	2220.000
2057021	_Subgrade Undercutting, Type IIA	Cyd	223.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	10.000
3020050	Aggregate Base, Conditioning	Syd	2220.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	60.000
4030200	Dr Structure, 24 inch dia	Ea	6.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	5.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	7.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	8.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	7.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	120.000
5010003	Cold Milling HMA Surface	Ton	2220.000
5010005	HMA Surface, Rem	Syd	47.000
5010703	HMA, LVSP	Ton	489.000
6027021	_Flowable Fill	Cyd	6.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	76.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	170.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	125.000
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
8120260	Plastic Drum, High Intensity, Furn	Ea	30.000
8120261	Plastic Drum, High Intensity, Oper	Ea	30.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	77.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	77.000
8127050	_No Parking Sign	Ea	18.000
8167011	_Slope Restoration	Syd	47.000
8230431	Gate Box, Adj, Case 1	Ea	1.000

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
4.0	D3-1	Street Name Sign	4.000	16.000
2.0	R11-3a	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	25.000
1.0	W20-1	Road Work Ahead Sign	9.000	9.000
3.0	W20-3	Road Closed Ahead Sign	9.000	27.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Grading, Sidewalk Ramp • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Dr Structure, Rem
DS	• Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • _Dr Structure, Double Inlet
PT	• _Dr Structure, Point
RRA	• Dr Structure Cover, Type B • _Dr Structure Cover, Type B, Special • _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• _Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper



REV.	DATE	DESCRIPTION
01	3-23-18	ADDENDUM #2
01	3-15-18	ADDENDUM #1
00	2-27-18	BID SET

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

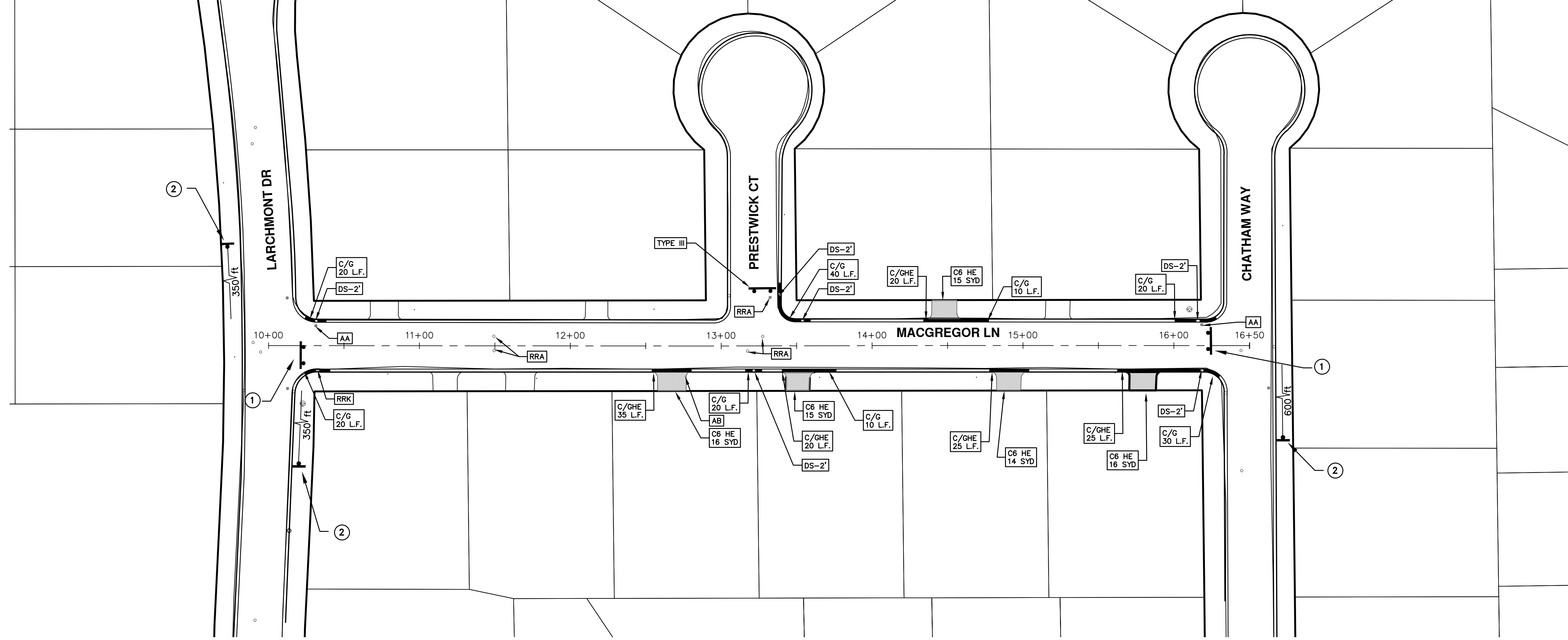
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
MACGREGOR LANE

SCALE
DRAWING No. 2018004-19
SHEET No. 19 OF 77



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

T:\2018004\Plan Production\2018004 - MacGregor Lane.dwg Dwg Created: 22-Sep-17 - _a2 standard bw.stb - Plot Date: 23-Mar-18



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60x30
②	 ROAD CLOSED AHEAD MACGREGOR LN	W20-3 36"x36" D3-1 36"x36"

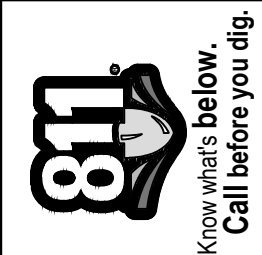
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=80'
 DRAWING No. 2018004-20

STREET RESURFACING PROJECT - 2018
 MACGREGOR LANE
 STA. 10+00 - STA. 16+50



CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-8647
 ANN ARBOR: 734-794-4410
 www.a2gov.org

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD





CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: PRESTWICK COURT

ITB No. 4529 FILE No. 2018004

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET CONCURRENTLY WITH THAT PROPOSED FOR MCGREGOR LANE IN ACCORDANCE WITH THE SCHEDULE OF STREETS. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK.
- UPON RECEIVING MISS DIG SITE CLEARANCE 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 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 3.0 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 DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- 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 (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL NO PARKING SIGNS (AS REQUIRED), TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.
- OPEN STREET TO ALL TRAFFIC.

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	Units	Quantity
2030011	Dr Structure, Rem	Ea	2.000
2030015	Sewer, Rem, Less than 24 inch	Ft	20.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	70.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	15.000
2057011	Grading, Driveway Approach	Syd	15.000
2057011	Machine Grading, Special	Syd	880.000
2057021	Subgrade Undercutting, Type IIA	Cyd	89.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	3.000
3020050	Aggregate Base, Conditioning	Syd	880.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	20.000
4030200	Dr Structure, 24 inch dia	Ea	2.000
4037050	Dr Structure Cover, Type B, Modified	Ea	2.000
4037050	Dr Structure Cover, Type K, Modified	Ea	2.000
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	40.000
5010003	Cold Milling HMA Surface	Ton	880.000
5010005	HMA Surface, Rem	Syd	14.000
5010703	HMA, LVSP	Ton	194.000
6027021	Flowable Fill	Cyd	2.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	15.000
8027001	Curb and Gutter, Conc, Barrier	Ft	40.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	30.000
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
8120260	Plastic Drum, High Intensity, Furn	Ea	10.000
8120261	Plastic Drum, High Intensity, Oper	Ea	10.000
8127050	No Parking Sign	Ea	10.000
8167011	Slope Restoration	Syd	8.000
8230431	Gate Box, Adj, Case 1	Ea	2.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	Dr Structure, Adj, Case 1, Modified Dr Structure, Adj, Case 2, Modified Dr Structure, Temp Lowering, Modified
AB	Dr Structure, Temp Lowering, Modified Gate Box, Adj, Case 1 Gate Box, Adj, Case 2 Monument Box Adjust
ADST	Dr Structure, Adj, Add Depth, Modified
AK	Dr Structure, Adj, Case 1, Modified
C4	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Grading, Sidewalk Sidewalk, Conc, 4 inch, Modified
C4HE	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Grading, Sidewalk Cement Sidewalk, Conc, 4 inch, Modified
C6	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Grading, Sidewalk Detectable Warning Surface, Modified Sidewalk Ramp, Conc, 6 inch, Modified Sidewalk, Conc, 6 inch, Modified
C8	Grading, Driveway Approach Driveway, Nonreinf Conc, 8 inch, Modified
C HE	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Grading, Driveway Approach Grading, Sidewalk Grading, Sidewalk Ramp Cement Driveway, Nonreinf Conc, 6 inch, Modified Driveway, Nonreinf Conc, 8 inch, Modified Detectable Warning Surface, Modified Sidewalk Ramp, Conc, 6 inch, Modified Sidewalk, Conc, 6 inch, Modified
C/G	Curb, Gutter, and Curb and Gutter, Any Type, Rem Curb and Gutter, Conc
C/GHE	Curb, Gutter, and Curb and Gutter, Any Type, Rem Cement Driveway Opening, Conc, Det M, Modified
CP	Grading, Sidewalk Sidewalk, Conc, 4 inch, Modified
CR	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Dr Structure, Rem
DS	Sewer, Rem, Less than 24 inch Dr Structure, 24 inch dia
DSDI	Dr Structure, Rem Sewer, Rem, Less than 24 inch Dr Structure, Double Inlet
PT	Dr Structure, Point
RRA	Dr Structure Cover, Type B Dr Structure Cover, Type B, Special Dr Structure, Adj, Case 1, Modified Dr Structure, Temp Lowering, Modified
RRK	Dr Structure Cover, Type K Dr Structure, Adj, Case 1, Modified
RS	Dr Structure, Reconstruct
TYPE II	Plastic Drum, High Intensity, Lighted, Furn Plastic Drum, High Intensity, Lighted, Oper
TYPE III	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn Barricade, Type III, High Intensity, Double Sided, Lighted, Oper



REV.	DATE	DESCRIPTION
01	3-23-18	ADDENDUM #2
01	3-15-18	ADDENDUM #1
00	2-27-18	BID SET

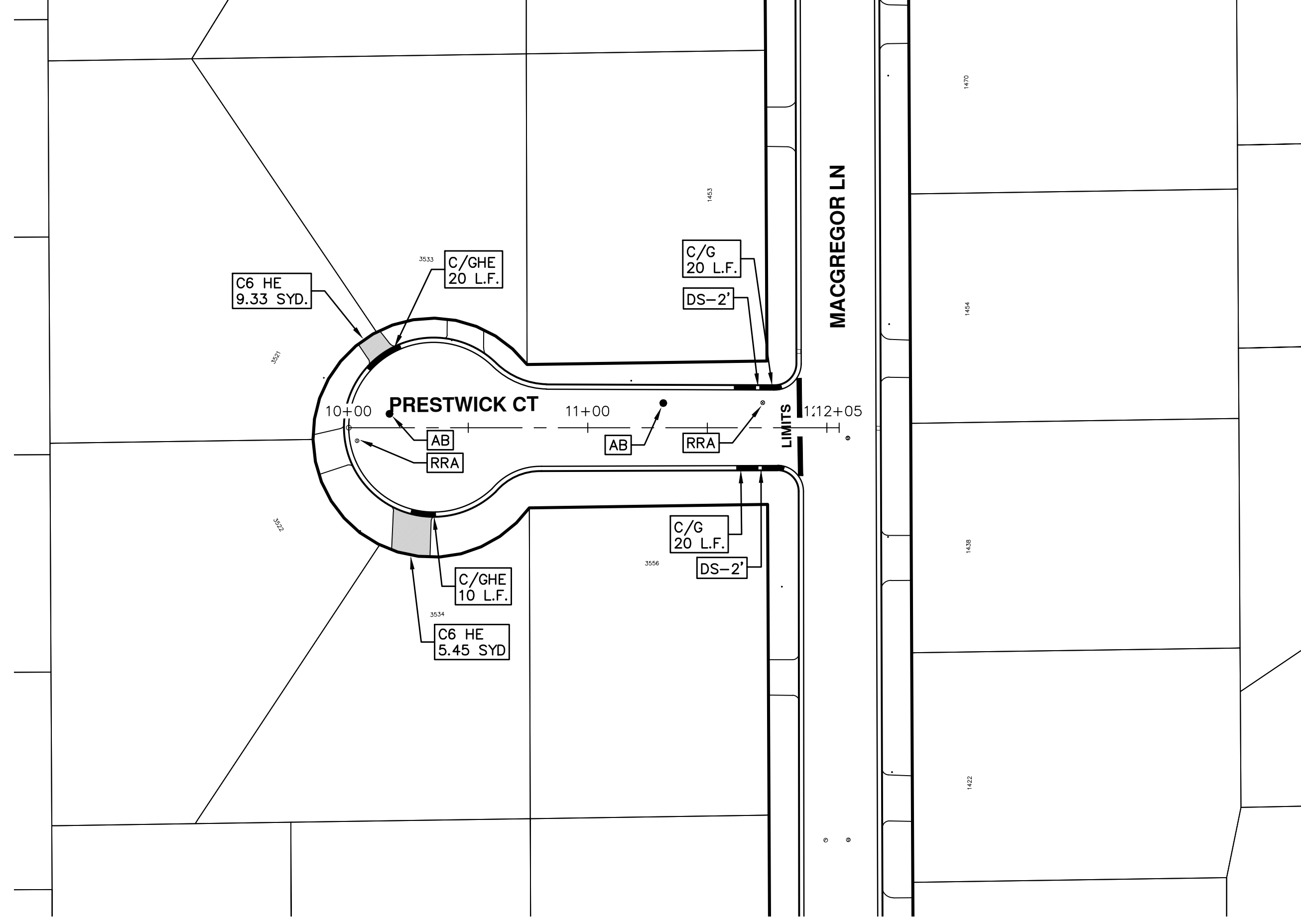
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
www.a2gov.org

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
PRESTWICK COURT

DRAWING No. 2018004-21
SHEET No. 21 OF 77

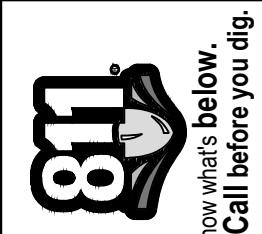


ENGINEERING
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org



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 #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD





CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: SEVERN COURT

ITB No. 4529 FILE No. 2018004

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET CONCURRENTLY WITH THAT PROPOSED FOR FAIRMOUNT DRIVE AND KIPLING COURT IN ACCORDANCE WITH THE SCHEDULE OF STREETS. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK.
- UPON RECEIVING MISS DIG SITE CLEARANCE 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 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 3.5 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 DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- 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 (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL NO PARKING SIGNS (AS REQUIRED), TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.
- OPEN STREET TO ALL TRAFFIC.

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	Units	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	123.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	54.000
2057011	_Grading, Driveway Approach	Syd	8.000
2057011	_Grading, Sidewalk	Syd	28.000
2057011	_Grading, Sidewalk Ramp	Syd	28.000
2057011	_Machine Grading, Special	Syd	1470.000
2057021	_Subgrade Undercutting, Type IIA	Cyd	148.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	5.000
3020050	Aggregate Base, Conditioning	Syd	1470.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	6.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	3.000
5010003	Cold Milling HMA Surface	Ton	1470.000
5010005	HMA Surface, Rem	Syd	14.000
5010703	HMA, LVSP	Ton	324.000
6027021	_Flowable Fill	Cyd	3.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	8.000
8027001	_Curb and Gutter, Conc, Mountable	Ft	123.000
8037001	_Detectable Warning Surface, Modified	Ft	25.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	245.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	245.000
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
8120260	Plastic Drum, High Intensity, Furn	Ea	20.000
8120261	Plastic Drum, High Intensity, Oper	Ea	20.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	39.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	39.000
8127050	_No Parking Sign	Ea	16.000
8167011	_Slope Restoration	Syd	54.000

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
2.0	D3-1	Street Name Sign	4.000	8.000
1.0	R11-3a	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	13.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
			TOTAL	39.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Grading, Sidewalk Ramp • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Dr Structure, Rem
DS	• Sewer, Rem, Less than 24 inch • _Dr Structure, 24 inch dia
DSDI	• _Dr Structure, Rem • Sewer, Rem, Less than 24 inch • _Dr Structure, Double Inlet
PT	• _Dr Structure, Point
RRA	• _Dr Structure Cover, Type B • _Dr Structure Cover, Type B, Special • _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Temp Lowering, Modified
RRK	• _Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• _Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper



REV.	DATE	DRAWN	CHECKED	DESCRIPTION
01	3-23-18	GSCE	DAD	
01	3-15-18	GSCE	DAD	
00	2-27-18	GSCE	DAD	

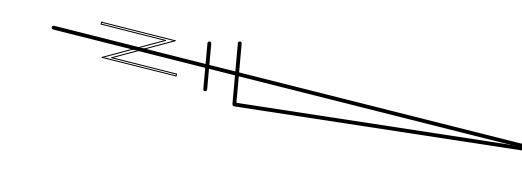
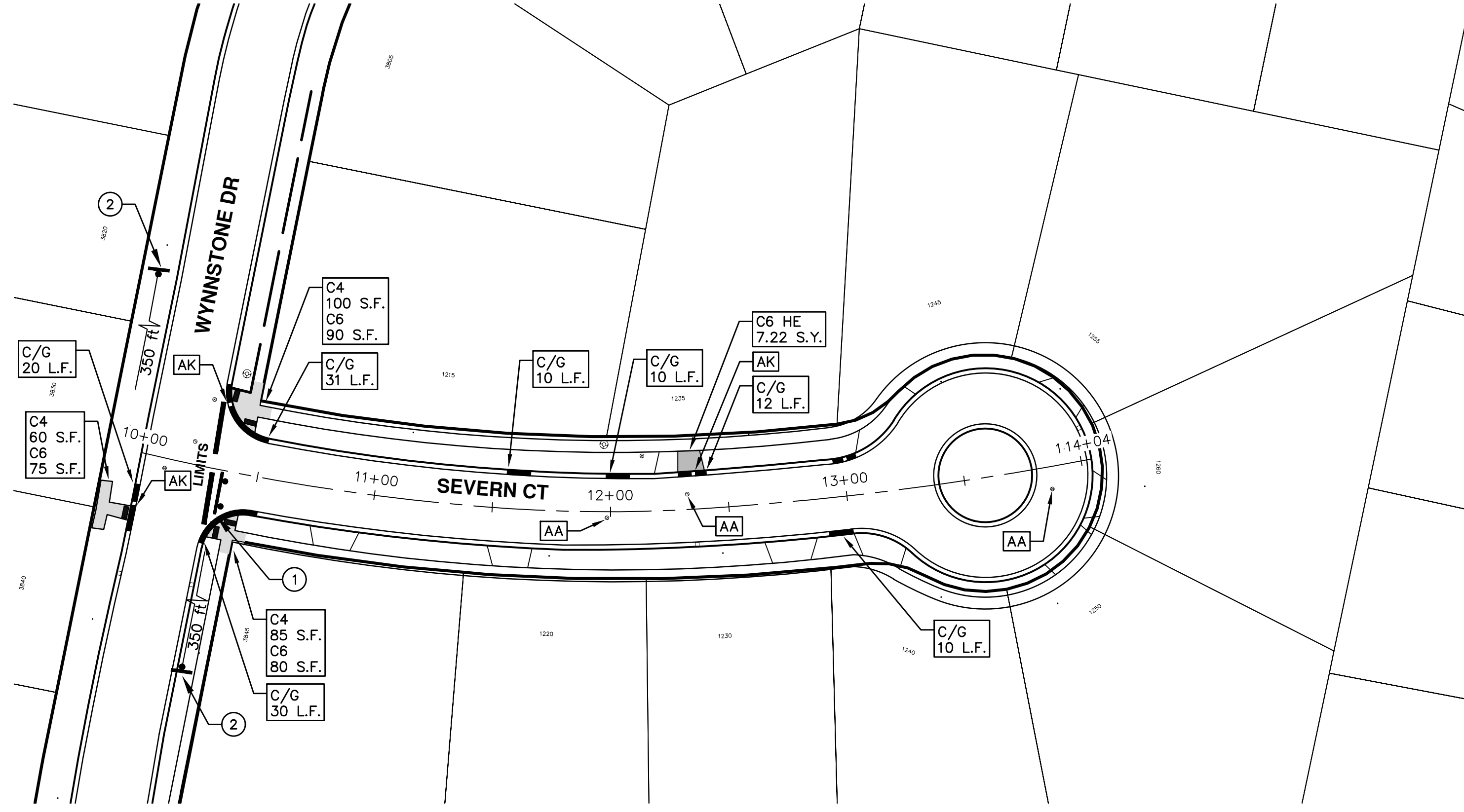
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
www.a2gov.org

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
SEVERN COURT
SUBSET COVER SHEET



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

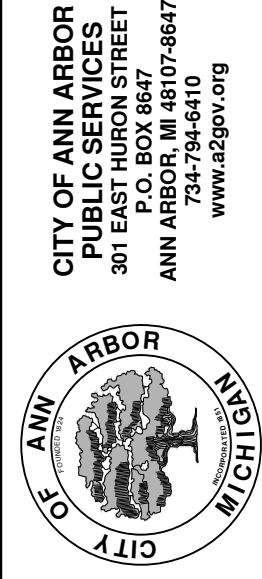
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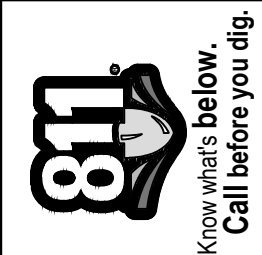
TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60x30
②	 ROAD WORK AHEAD SEVERN CT.	W20-1 36"x36" D3-1 36"x36"

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=80'
 DRAWING No. 2018004-24

STREET RESURFACING PROJECT - 2018
 SEVERN COURT
 STA. 10+00 - STA. 14+04



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD





CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: STURBRIDGE COURT

ITB No. 4529 FILE No. 2018004

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET CONCURRENTLY WITH THAT PROPOSED FOR BARDSTOWN TRAIL IN ACCORDANCE WITH THE SCHEDULE OF STREETS. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK.
- UPON RECEIVING MISS DIG SITE CLEARANCE 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 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 3.5 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 DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- 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 (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL NO PARKING SIGNS (AS REQUIRED), TRAFFIC CONTROL DEVICES, 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	Units	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	10.000
2057011	_Machine Grading, Special	Syd	1670.000
2057021	_Subgrade Undercutting, Type IIA	Cyd	168.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	4.000
3020050	Aggregate Base, Conditioning	Syd	1670.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	2.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	4.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	3.000
5010003	Cold Milling HMA Surface	Ton	1670.000
5010005	HMA Surface, Rem	Syd	2.000
5010703	HMA, LVSP	Ton	368.000
6027021	_Flowable Fill	Cyd	1.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	10.000
8110214	Pav Mrg, Thermopl, 12 inch, Crosswalk	Ft	80.000
8117001	Pav Mrg, Thermopl, 4 inch, Parking Sym, White	Ft	15.000
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
8120260	Plastic Drum, High Intensity, Furn	Ea	20.000
8120261	Plastic Drum, High Intensity, Oper	Ea	20.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	39.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	39.000
8127050	_No Parking Sign	Ea	15.000
8167011	_Slope Restoration	Syd	3.000
8230431	Gate Box, Adj, Case 1	Ea	1.000

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
2.0	D3-1	Street Name Sign	4.000	8.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	13.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
TOTAL				39.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Dr Structure, Rem
DS	• Sewer, Rem, Less than 24 inch • _Dr Structure, 24 inch dia
DSDI	• _Dr Structure, Rem • Sewer, Rem, Less than 24 inch • _Dr Structure, Double Inlet
PT	• _Dr Structure, Point
RRA	• _Dr Structure Cover, Type B • _Dr Structure Cover, Type B, Special • _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Temp Lowering, Modified
RRK	• _Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• _Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper



REV	DATE	DESCRIPTION
01	3-23-18	ADDENDUM #2
01	3-15-18	ADDENDUM #1
00	2-27-18	BID SET

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

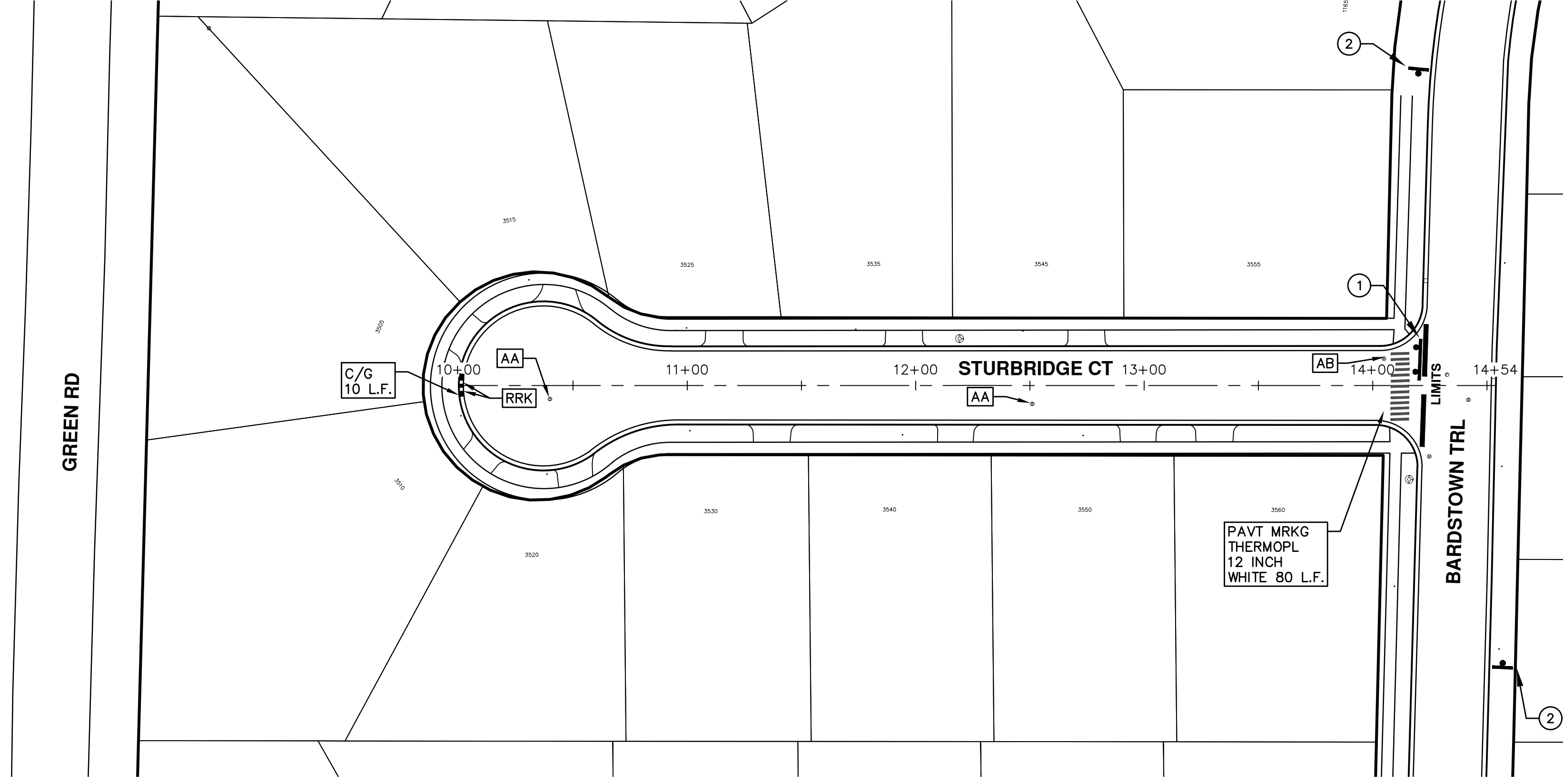
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
STURBRIDGE COURT

SCALE
DRAWING No. 2018004-25
SHEET No. 25 OF 77



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

T:\2018004\Plan Production\2018004 - Sturbridge Court.dwg Dwg Created: 22-Sep-17 - _a2_standard_bw.stb - Plot Date: 23-Mar-18



PAVT MRKG
THERMOPL
12 INCH
WHITE 80 L.F.

TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 W/ TYPE III BARRICADE	R11-3a 60x30
②	 STURBRIDGE CT	W20-1 36"x36" D3-1 36"x36"

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD





CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: SULGRAVE PLACE

ITB No. 4529 FILE No. 2018004

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET CONCURRENTLY WITH THAT PROPOSED FOR BARRISTER DRIVE IN ACCORDANCE WITH THE SCHEDULE OF STREETS. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK.
- UPON RECEIVING MISS DIG SITE CLEARANCE 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 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 3.5 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 DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- 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 (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL NO PARKING SIGNS (AS REQUIRED), TRAFFIC CONTROL DEVICES, 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	Units	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	426.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	155.000
2057011	Grading, Driveway Approach	Syd	143.000
2057011	Grading, Sidewalk	Syd	12.000
2057011	Machine Grading, Special	Syd	2540.000
2057021	Subgrade Undercutting, Type IIA	Cyd	255.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	6.000
3020050	Aggregate Base, Conditioning	Syd	2540.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	30.000
4030200	Dr Structure, 24 inch dia	Ea	3.000
4037050	Dr Structure Cover, Type B, Modified	Ea	6.000
4037050	Dr Structure Cover, Type K, Modified	Ea	3.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	8.000
4037050	Structure, Reconstruct	Ea	1.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	7.000
4047001	Underdrain, Subgrade, 6 inch, Special	Ft	60.000
5010003	Cold Milling HMA Surface	Ton	2540.000
5010005	HMA Surface, Rem	Syd	60.000
5010025	Hand Patching	Ton	6.000
5010703	HMA, LVSP	Ton	559.000
6027021	Flowable Fill	Cyd	8.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	143.000
8027001	Curb and Gutter, Conc, Barrier	Ft	200.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	226.000
8037010	Sidewalk, Conc or Clay Brick Pavers, Rem and Reinstall	Sft	55.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	100.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Fum	Ea	1.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	1.000
8120260	Plastic Drum, High Intensity, Fum	Ea	30.000
8120261	Plastic Drum, High Intensity, Oper	Ea	30.000
8120350	Sign, Type B, Temp, Prismatic, Fum	Sft	39.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	39.000
8127050	No Parking Sign	Ea	22.000
8167011	Slope Restoration	Syd	77.000

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
2.0	D3-1	Street Name Sign	4.000	8.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	13.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
TOTAL				39.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	Dr Structure, Adj, Case 1, Modified Dr Structure, Adj, Case 2, Modified Dr Structure, Temp Lowering, Modified
AB	Dr Structure, Temp Lowering, Modified Gate Box, Adj, Case 1 Gate Box, Adj, Case 2 Monument Box Adjust
ADST	Dr Structure, Adj, Add Depth, Modified
AK	Dr Structure, Adj, Case 1, Modified
C4	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Grading, Sidewalk Sidewalk, Conc, 4 inch, Modified
C4HE	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Grading, Sidewalk Cement Sidewalk, Conc, 4 inch, Modified
C6	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Grading, Sidewalk Grading, Sidewalk Ramp Detectable Warning Surface, Modified Sidewalk Ramp, Conc, 6 inch, Modified Sidewalk, Conc, 6 inch, Modified
C8	Grading, Driveway Approach Driveway, Nonreinf Conc, 8 inch, Modified
C HE	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Grading, Driveway Approach Grading, Sidewalk Grading, Sidewalk Ramp Cement Driveway, Nonreinf Conc, 6 inch, Modified Driveway, Nonreinf Conc, 8 inch, Modified Detectable Warning Surface, Modified Sidewalk Ramp, Conc, 6 inch, Modified Sidewalk, Conc, 6 inch, Modified
C/G	Curb, Gutter, and Curb and Gutter, Any Type, Rem Curb and Gutter, Conc
C/GHE	Curb, Gutter, and Curb and Gutter, Any Type, Rem Cement Driveway Opening, Conc, Det M, Modified
CP	Grading, Sidewalk Sidewalk, Conc, 4 inch, Modified
CR	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Dr Structure, Rem
DS	Sewer, Rem, Less than 24 inch Dr Structure, 24 inch dia
DSDI	Dr Structure, Rem Sewer, Rem, Less than 24 inch Dr Structure, Double Inlet
PT	Dr Structure, Point
RRA	Dr Structure Cover, Type B Dr Structure Cover, Type B, Special Dr Structure, Adj, Case 1, Modified Dr Structure, Temp Lowering, Modified
RRK	Dr Structure Cover, Type K Dr Structure, Adj, Case 1, Modified
RS	Dr Structure, Reconstruct
TYPE II	Plastic Drum, High Intensity, Lighted, Fum Plastic Drum, High Intensity, Lighted, Oper
TYPE III	Barricade, Type III, High Intensity, Double Sided, Lighted, Fum Barricade, Type III, High Intensity, Double Sided, Lighted, Oper



ADDENDUM #2	ADDENDUM #1	BID SET	DATE	DRAWN	CHECKED
01	3-23-18	01	3-15-18	GSCE	GSCE
00	2-27-18	00		GSCE	GSCE

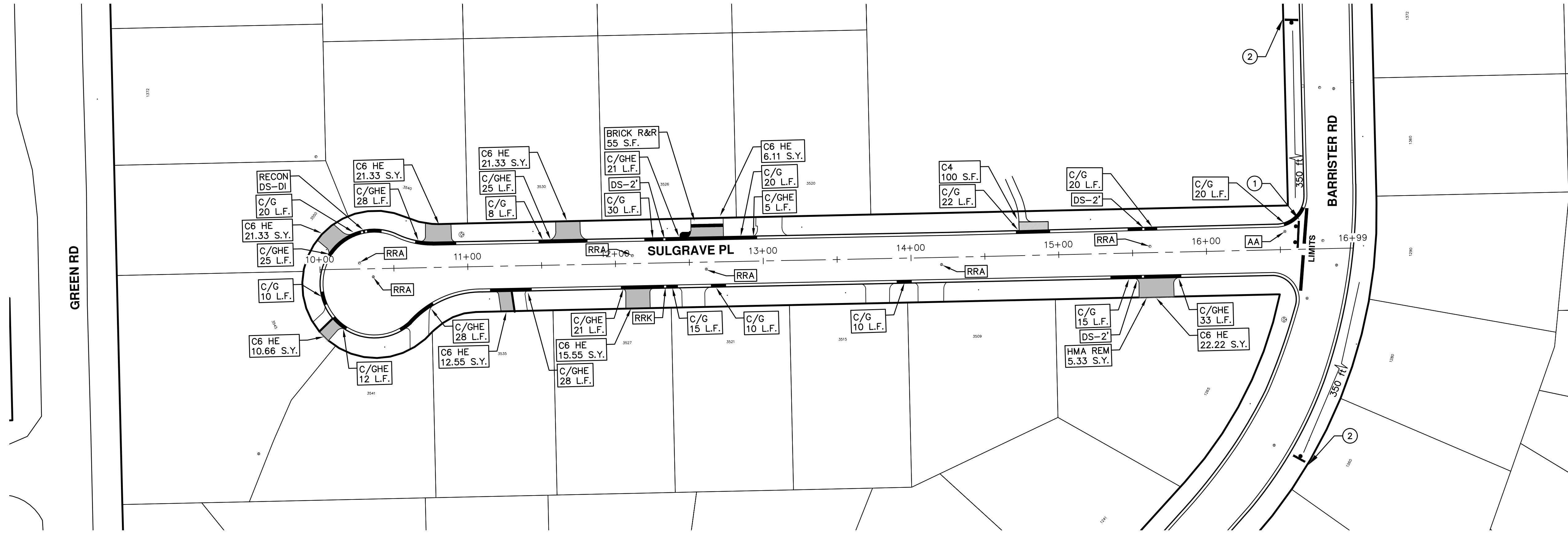
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
SULGRAVE PLACE

SCALE
DRAWING No. 2018004-27
SHEET No. 27 OF 77



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



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60x30
②	 ROAD WORK AHEAD SULGRAVE PL	W20-1 36"x36" D.3-1 36"x36"

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: WINDEMERE DRIVE & COURT

ITB No. 4529 FILE No. 2018004

CONSTRUCTION SCOPE AND SEQUENCING

CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK.
- UPON RECEIVING MISS DIG SITE CLEARANCE 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 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 3.5 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 DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- 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 (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL NO PARKING SIGNS (AS REQUIRED), TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.
- OPEN STREET TO ALL TRAFFIC.

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.

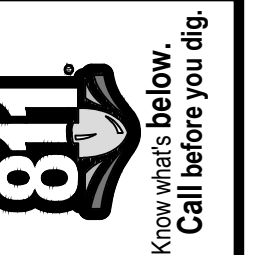
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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	Units	Quantity
2030011	Dr Structure, Rem	Ea	9.000
2030015	Sewer, Rem, Less than 24 inch	Ft	90.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	892.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	194.000
2057011	Grading, Driveway Approach	Syd	66.000
2057011	Grading, Sidewalk	Syd	70.000
2057011	Grading, Sidewalk Ramp	Syd	58.000
2057011	Machine Grading, Special	Syd	9,060.000
2057021	Subgrade Undercutting, Type IIA	Cyd	321.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	30.000
3020050	Aggregate Base, Conditioning	Syd	9,060.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	90.000
4030200	Dr Structure, 24 inch dia	Ea	9.000
4037050	Dr Structure Cover, Type B, Modified	Ea	12.000
4037050	Dr Structure Cover, Type K, Modified	Ea	16.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	40.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	27.000
4047001	Underdrain, Subgrade, 6 inch, Special	Ft	180.000
5010003	Cold Milling HMA Surface	Syd	9,611.000
5010005	HMA Surface, Rem	Syd	176.000
5010025	Hand Patching	Ton	25.000
5010061	HMA, Approach	Ton	277.000
5010703	HMA, LVSP	Ton	2,116.000
6027021	Flowable Fill	Cyd	18.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	66.000
8027001	Curb and Gutter, Conc, Barrier	Ft	290.000
8027001	Curb and Gutter, Conc, Mountable	Ft	474.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	128.000
8037001	Detectable Warning Surface, Modified	Ft	70.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	515.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	615.000
8110214	Pav Mrkg, Thermopl, 12 inch, Crosswalk	Ft	240.000
8110218	Pav Mrkg, Thermopl, 24 inch, Stop Bar	Ft	125.000
8110197	Pav Mrkg, Thermopl, 6 inch, Crosswalk	Ft	995.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	9.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	9.000
8120260	Plastic Drum, High Intensity, Furn	Ea	120.000
8120261	Plastic Drum, High Intensity, Oper	Ea	120.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	282.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	282.000
8127050	No Parking Sign	Ea	185.000
8167011	Slope Restoration	Syd	199.000
8230431	Gate Box, Adj, Case 1	Ea	5.000

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
13.0	D3-1	Street Name Sign	4.000	52.000
9.0	R11-3a	Road Closed Sign ("Road Closed Local Traffic Only")	12.500	113.000
3.0	W20-1	Road Work Ahead Sign	9.000	27.000
10.0	W20-3	Road Closed Ahead	9.000	90.000
TOTAL				282.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Grading, Sidewalk Ramp • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• Grading, Driveway Approach • Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc, 6 inch, Modified • Driveway, Nonreinf Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Dr Structure, Rem
DS	• Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet
PT	• Dr Structure, Point
RRA	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper



REV.	DATE	DESCRIPTION
01	3-23-18	ADDENDUM #2
01	3-15-18	ADDENDUM #1
00	2-27-18	BID SET
		DRAWN
		CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MICHIGAN 48107-8647
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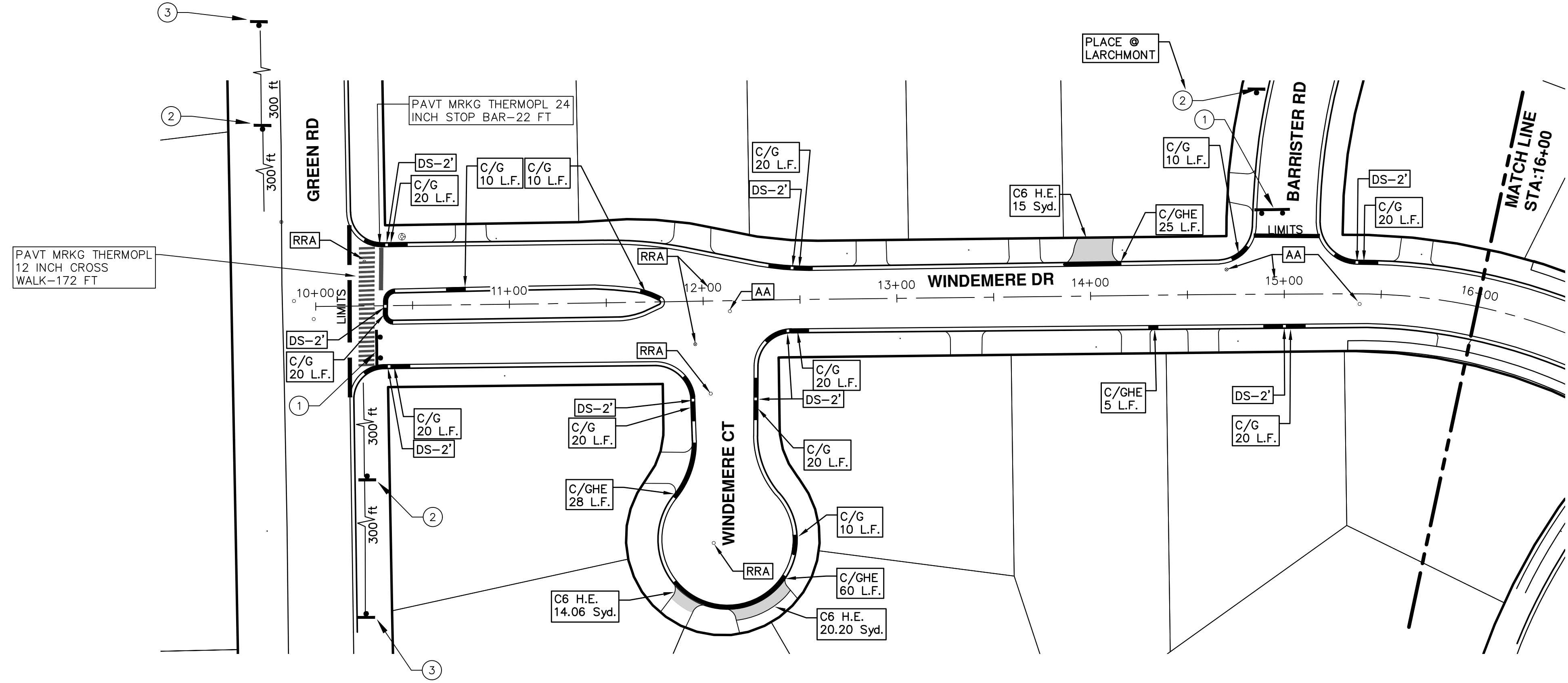
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
WINDEMERE DRIVE

SCALE
DRAWING No. 2018004-29
SHEET No. 29 OF 77



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

T:\2018004\Plan Production\2018004 - Windemere Drive.dwg Dwg Created: 22-Sep-17 - a2 standard bw.stb - Plot Date: 23-Mar-18



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 W/ TYPE III BARRICADE	R11-3a 60x30
②	 WINDEMERE DR	W20-3 36"x36" D3-1 36"x36"
③	 WINDEMERE DR	W20-1 36"x36" D3-1 36"x36"

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=80'
 DRAWING No. 2018004-30

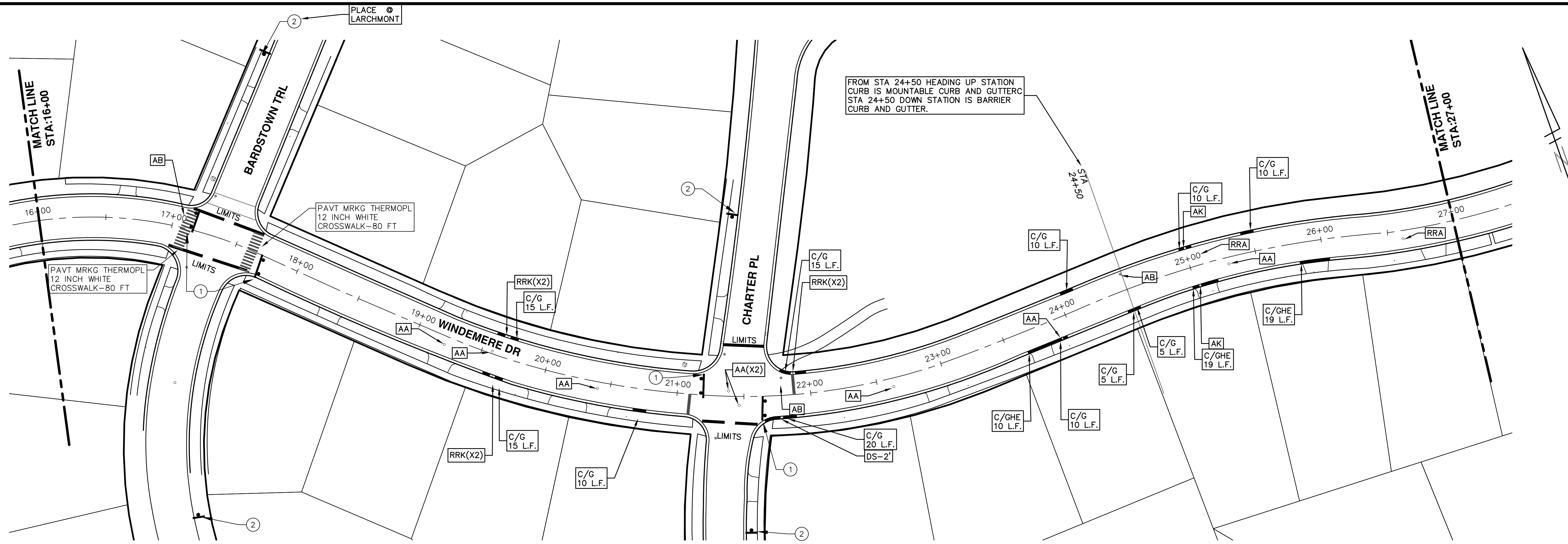
STREET RESURFACING PROJECT - 2018
 WINDEMERE DRIVE
 STA. 10+00 - STA. 16+00

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

REV.	DATE	DESCRIPTION	CHECKED	DRAWN
01	3-23-18	ADDENDUM #2	DAD	DAD
01	3-15-18	ADDENDUM #1	DAD	DAD
00	2-27-18	BID SET	DAD	DAD

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

T:\2018004\Plan Production\2018004 - Windemere Drive.dwg Dwg Created: 22-Sep-17 - _a2 standard bw.stb - Plot Date: 23-Mar-18



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60x30
②	 ROAD CLOSED AHEAD WINDEMERE DR	W20-3 36"x36" D3-1 36"x36"
③	 ROAD WORK AHEAD WINDEMERE DR	W20-1 36"x36" D3-1 36"x36"

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=40'
 DRAWING No. 2018004-31

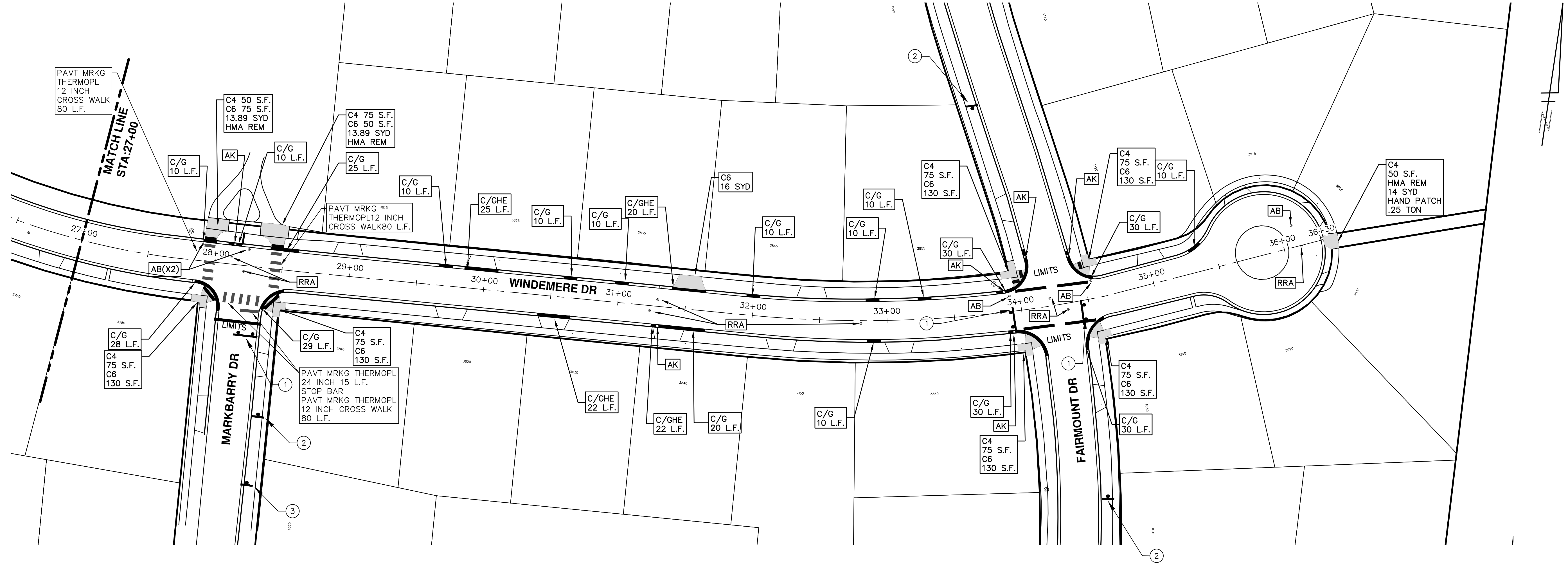
STREET RESURFACING PROJECT - 2018
 WINDEMERE DRIVE
 STA. 16+00 - STA. 27+00

CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-3667
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	DAD	DAD
01	ADDENDUM #1	3-15-18	DAD	DAD
00	BID SET	2-27-18	DAD	DAD

TRAFFIC CONTROL SIGN NUMBER

31 OF 77



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60x30
②	 ROAD CLOSED AHEAD WINDEMERE DR	W20-3 36"x36" D3-1 36"x36"
③	 ROAD WORK AHEAD WINDEMERE DR	W20-1 36"x36" D3-1 36"x36"

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=80'
 DRAWING No. 2018004-32

STREET RESURFACING PROJECT - 2018
 WINDEMERE DRIVE
 STA. 27+00 - STA. 36+30

CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-6647
 ANN ARBOR: 734.754.4410
 WWW.A2GOV.ORG

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	OSCE	DAD
01	ADDENDUM #1	3-15-18	OSCE	DAD
00	BID SET	2-27-18	OSCE	DAD

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



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: WEST DOBSON PLACE

ITB No. 4529 FILE No. 2018004

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET CONCURRENTLY WITH THAT PROPOSED FOR EAST DOBSON PLACE IN ACCORDANCE WITH THE SCHEDULE OF STREETS. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK.
- UPON RECEIVING MISS DIG SITE CLEARANCE 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 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 2.5 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 DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- 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 (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL NO PARKING SIGNS (AS REQUIRED), TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.
- OPEN STREET TO ALL TRAFFIC.

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.

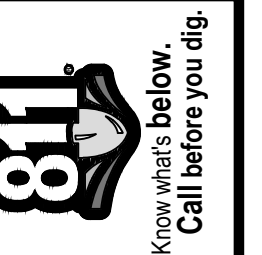
QUANTITIES			
Item Code	Item Description	Units	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	255.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	29.000
2057011	_Grading, Sidewalk	Syd	12.000
2057011	_Grading, Sidewalk Ramp	Syd	17.000
2057011	_Machine Grading, Special	Syd	4200.000
2057021	_Subgrade Undercutting, Type IIA	Cyd	420.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	15.000
3020050	Aggregate Base, Conditioning	Syd	4200.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	13.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	7.000
5010003	Cold Milling HMA Surface	Ton	4200.000
5010005	HMA Surface, Rem	Syd	30.000
5010703	HMA, LVSP	Ton	810.000
6027021	_Flowable Fill	Cyd	5.000
8027001	_Curb and Gutter, Conc, Mountable	Ft	267.000
8037001	_Detectable Warning Surface, Modified	Ft	15.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	150.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	100.000
8117001	Pavt Mrkg, Thermopl, 4 inch, Parking Sym, White	Ft	15.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Fum	Ea	1.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	1.000
8120260	Plastic Drum, High Intensity, Fum	Ea	50.000
8120261	Plastic Drum, High Intensity, Oper	Ea	50.000
8120350	Sign, Type B, Temp, Prismatic, Fum	Sft	39.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	39.000
8127050	_No Parking Sign	Ea	35.000
8167011	_Slope Restoration	Syd	75.000

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
2.0	D3-1	Street Name Sign	4.000	8.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	13.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
TOTAL				39.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Dr Structure, Rem
DS	• Sewer, Rem, Less than 24 inch • _Dr Structure, 24 inch dia
DSDI	• _Dr Structure, Rem • Sewer, Rem, Less than 24 inch • _Dr Structure, Double Inlet
PT	• _Dr Structure, Point
RRA	• _Dr Structure Cover, Type B • _Dr Structure Cover, Type B, Special • _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Temp Lowering, Modified
RRK	• _Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• _Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Fum • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Fum • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

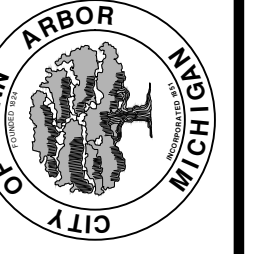


ENGINEERING
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org



REV.	DATE	DESCRIPTION
01	3-23-18	ADDENDUM #2
01	3-15-18	ADDENDUM #1
00	2-27-18	BID SET
		DRAWN
		CHECKED

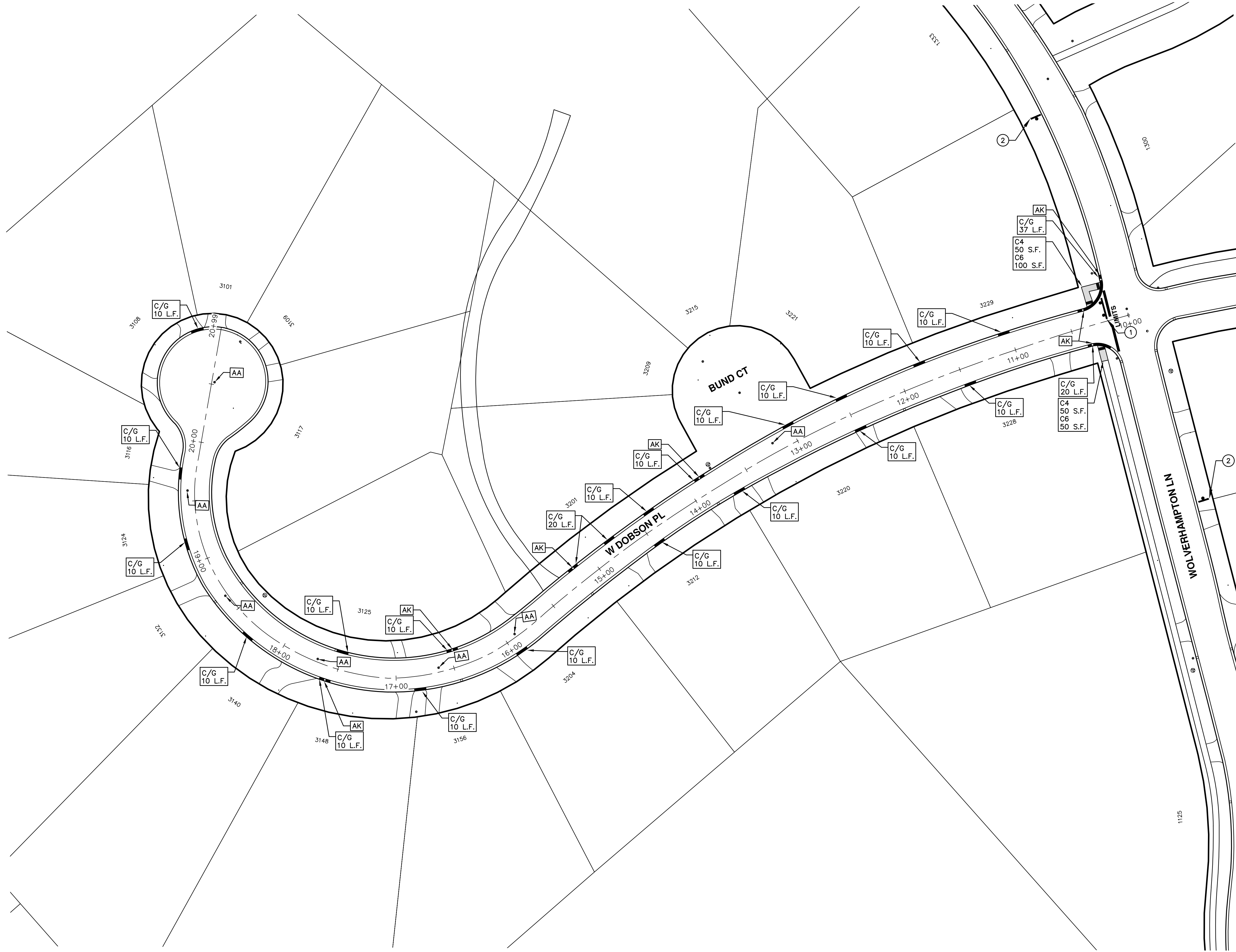
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PUBLIC SERVICES
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ANN ARBOR, MICHIGAN 48107-8647
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
WEST DOBSON PL

DRAWING No. 2018004-33
SHEET No. 33 OF 77

T:\2018004\Plan Production\2018004 - West Dobson Place.dwg Created: 15-Dec-17 - a2 standard bw.stb - Plot Date: 23-Mar-18



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60x30
②	 ROAD WORK AHEAD W.DOBSON PL	W20-1 36"x36" D3-1 36"x36"

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=40'
 DRAWING No. 2018004-34

STREET RESURFACING PROJECT - 2018
 WEST DOBSON PL
 STA. 10+00 - STA. 20+99

CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 P.O. BOX 86400
 ANN ARBOR, MI 48108-6647
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD

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



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: EAST DOBSON PLACE

ITB No. 4529 FILE No. 2018004

CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET CONCURRENTLY WITH THAT PROPOSED FOR WEST DOBSON PLACE IN ACCORDANCE WITH THE SCHEDULE OF STREETS. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK.
- UPON RECEIVING MISS DIG SITE CLEARANCE 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 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 2.5 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 DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- 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 (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL NO PARKING SIGNS (AS REQUIRED), TRAFFIC CONTROL DEVICES, 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	Units	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	154.00
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	28.00
2057011	_Grading, Sidewalk	Syd	23.00
2057011	_Grading, Sidewalk Ramp	Syd	6.00
2057011	_Machine Grading, Special	Syd	3222.00
2057021	_Subgrade Undercutting, Type IIA	Cyd	323.00
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	11.00
3020050	Aggregate Base, Conditioning	Syd	3222.00
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	8.00
4037050	_Dr Structure, Temp Lowering, Modified	Ea	8.00
5010003	Cold Milling HMA Surface	Ton	3222.00
5010005	HMA Surface, Rem	Syd	18.00
5010703	HMA, LVSP	Ton	709.00
6027021	_Flowable Fill	Cyd	3.00
8027001	_Curb and Gutter, Conc, Mountable	Ft	160.00
8037001	_Detectable Warning Surface, Modified	Ft	5.00
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	50.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Fum	Ea	1.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	1.00
8120260	Plastic Drum, High Intensity, Fum	Ea	45.00
8120261	Plastic Drum, High Intensity, Oper	Ea	45.00
8120350	Sign, Type B, Temp, Prismatic, Fum	Sft	39.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	39.00
8127050	_No Parking Sign	Ea	32.00
8167011	_Slope Restoration	Syd	45.00

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
2.0	D3-1	Street Name Sign	4.000	8.000
1.0	R11-3a	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	13.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
TOTAL				39.00

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Dr Structure, Rem
DS	• Sewer, Rem, Less than 24 inch • _Dr Structure, 24 inch dia
DSDI	• _Dr Structure, Rem • Sewer, Rem, Less than 24 inch • _Dr Structure, Double Inlet
PT	• _Dr Structure, Point
RRA	• _Dr Structure Cover, Type B • _Dr Structure Cover, Type B, Special • _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Temp Lowering, Modified
RRK	• _Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• _Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Fum • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Fum • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper



REV.	DATE	DESCRIPTION
01	3-23-18	ADDENDUM #2
01	3-15-18	ADDENDUM #1
00	2-27-18	BID SET
		DRAWN
		CHECKED

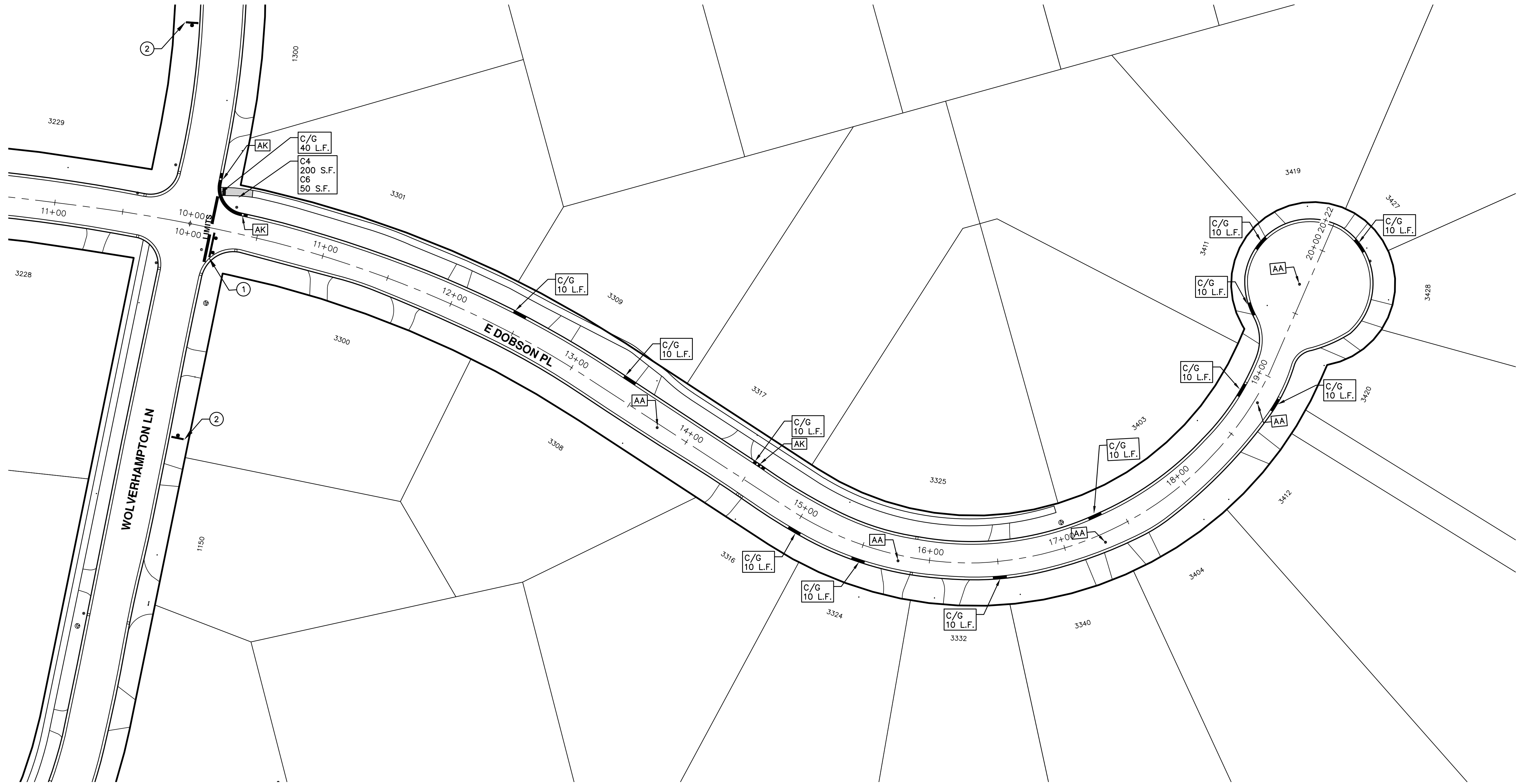
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
EAST DOBSON PL



ENGINEERING
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734-794-6410 www.a2gov.org

T:\2018004\Plan Production\2018004 - East Dobson Place.dwg Dwg Created: 27-Dec-17 - _a2_standard bw.stb - Plot Date: 23-Mar-18



WOLVERHAMPTON LN

E DOBSON PL

AK
C/G
40 L.F.
C4
200 S.F.
C6
50 S.F.

TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60"x30"
②	ROAD CLOSED AHEAD E. DOBSON PL	W20-3 36"x36" D3-1 36"x36"

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: WOLVERHAMPTON LANE

ITB No. 4529 FILE No. 2018004

CONSTRUCTION SCOPE AND SEQUENCING

CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK.
- UPON RECEIVING MISS DIG SITE CLEARANCE 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 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 2.5 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 DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- 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 (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL NO PARKING SIGNS (AS REQUIRED), TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.
- OPEN STREET TO ALL TRAFFIC.

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	Units	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	130.000
2057011	_Grading, Sidewalk	Syd	3.000
2057011	_Grading, Sidewalk Ramp	Syd	9.000
2057011	_Machine Grading, Special	Syd	4720.000
2057021	_Subgrade Undercutting, Type IIA	Cyd	473.000
3020050	Aggregate Base, Conditioning	Syd	4720.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	1.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	6.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	5.000
5010003	Cold Milling HMA Surface	Ton	4720.000
5010005	HMA Surface, Rem	Syd	15.000
5010703	HMA, LVSP	Ton	1039.000
6027021	_Flowable Fill	Cyd	3.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	20.000
8027001	_Curb and Gutter, Conc, Mountable	Ft	110.000
8037001	_Detectable Warning Surface, Modified	Ft	5.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	80.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	25.000
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
8120260	Plastic Drum, High Intensity, Furn	Ea	55.000
8120261	Plastic Drum, High Intensity, Oper	Ea	55.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	39.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	39.000
8127050	_No Parking Sign	Ea	26.000
8167011	_Slope Restoration	Syd	40.000

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
2.0	D3-1	Street Name Sign	4.000	8.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	13.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
TOTAL				39.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Dr Structure, Rem
DS	• Sewer, Rem, Less than 24 inch • _Dr Structure, 24 inch dia
DSDI	• _Dr Structure, Rem • Sewer, Rem, Less than 24 inch • _Dr Structure, Double Inlet
PT	• _Dr Structure, Point
RRA	• _Dr Structure Cover, Type B • _Dr Structure Cover, Type B, Special • _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Temp Lowering, Modified
RRK	• _Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• _Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper



REV.	DATE	DRAWN	CHECKED
01	3-23-18	GSCE	DAD
01	3-15-18	GSCE	DAD
00	2-27-18	GSCE	DAD

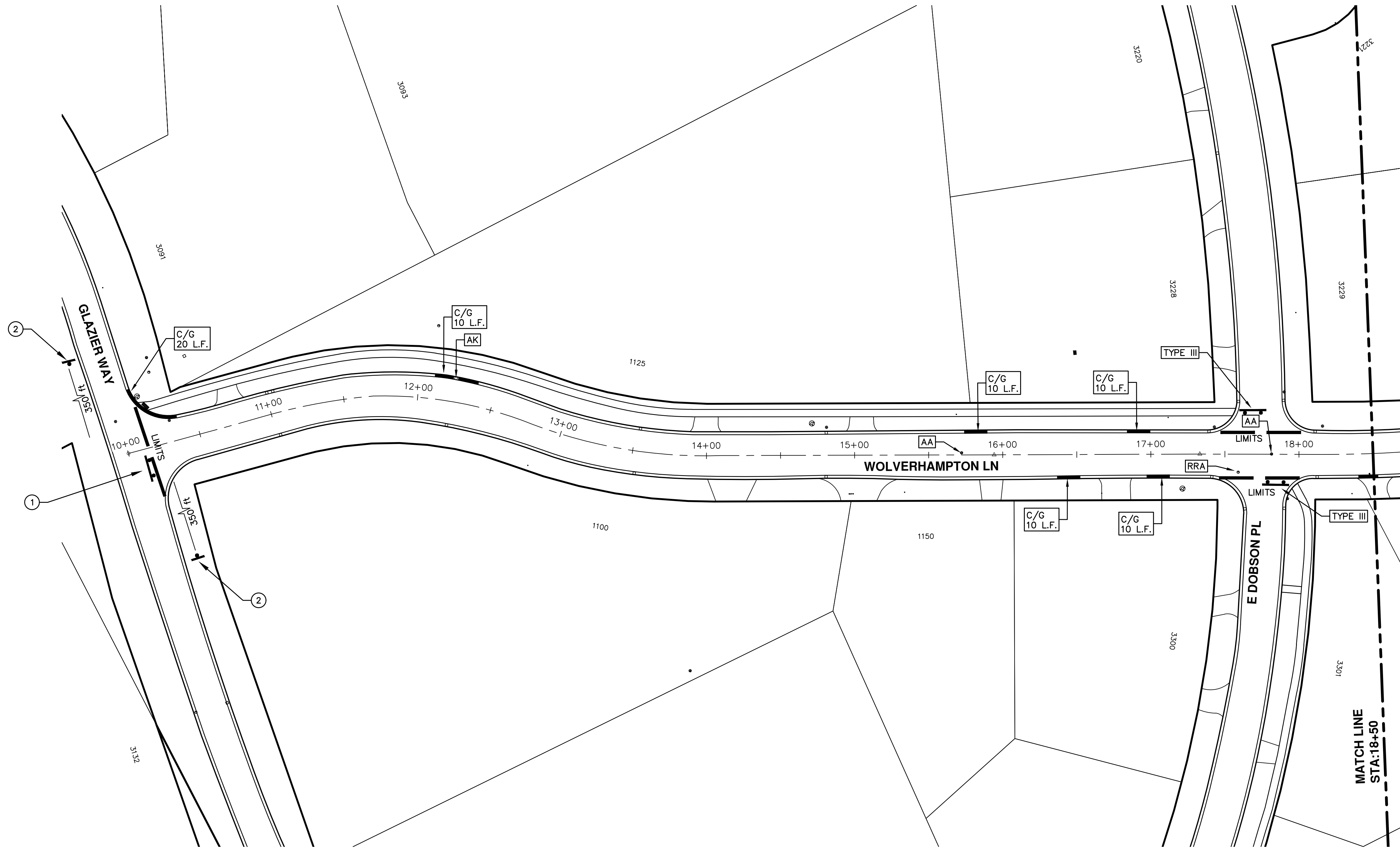
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
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ANN ARBOR, MICHIGAN 48107-8647
www.a2gov.org

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
WOLVERHAMPTON LN

SCALE
DRAWING No.
2018004-37
SHEET No.
37 OF 77

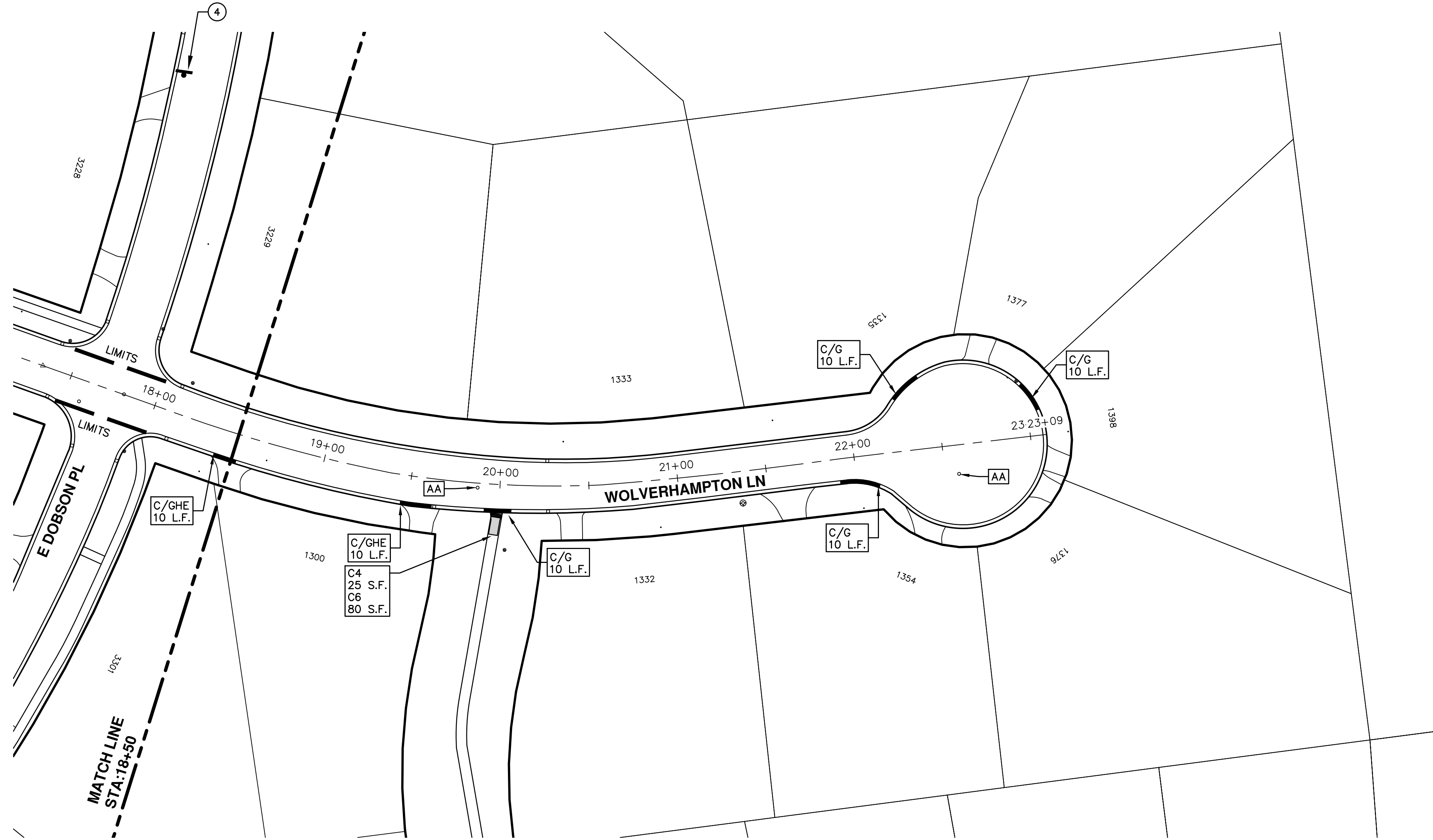


ENGINEERING
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①		R11-3a 60x30"
②		W20-1 36"x36" D3-1 36"x36"

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD



STREET RESURFACING PROJECT - 2018
 WOLVERHAMPTON LN
 STA. 18+50 - STA. 23+09



CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 P.O. BOX 8640
 ANN ARBOR MI 48108-8647
 www.a2gov.org

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD





CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: EB & WB JACKSON AVENUE

ITB No. 4529 FILE No. 2018004

QUANTITIES			
Item Code	Item Description	Units	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	80.000
2057011	_Machine Grading, Special	Syd	510.000
2057021	_Subgrade Undercutting, Type IIA	Cyd	138.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	22.000
2080036	Erosion Control, Silt Fence	Ft	500.000
3027011	_Aggregate Base, 8 inch, Modified	Syd	467.000
3070101	Shoulder, CI I	Ton	338.000
3070200	Trenching	Sta	6.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	2.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	2.000
5010003	Cold Milling HMA Surface	Syd	8,478.000
5010004	Bump Grinding	Syd	75.000
5010005	HMA Surface, Rem	Syd	1,175.000
5010020	Pvmt Joint and Crack Repr, Detail 7	Ft	2,100.000
5010021	Pvmt Joint and Crack Repr, Detail 8	Ft	425.000
5010025	Hand Patching	Ton	420.000
5010509	HMA, 4E3, High Stress	Ton	1,201.000
5010515	HMA, 5E3, High Stress	Ton	798.000
6020208	Joint, Expansion, E3	Syd	50.000
6020211	Joint, Plane-of-Weakness, W	Syd	150.000
6020222	Shoulder, Nonreinf Conc	Syd	400.000
6030020	Joint, Contraction, Crg	Ft	1,125.000
6030021	Joint, Contraction, Erg	Ft	50.000
6030021	Joint, Tied, Trg	Ft	275.000
6030030	Lane Tie, Epoxy Anchored	Ea	220.000
6030048	Pav Repr, Nonreinf Conc, 9 inch	Syd	780.000
6030080	Pav Repr, Rem	Syd	780.000
6030090	Saw Cut, Intermediate	Ft	1,200.000
6030095	Sawing and Sealing Longit Pavt Joints	Ft	780.000
6030096	Sawing and Sealing Trans Pavt Joints	Ft	560.000
6030100	Resealing Trans Joints with Hot-Poured Rubber	Ft	600.000
6030101	Resealing Longit Joints with Hot-Poured Rubber	Ft	1,350.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	100.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	80.000
8037001	_Detectable Warning Surface, Modified	Ft	40.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	200.000
8110049	Pav Mrkg, Oly Cold Plastic, Direction Arrow Sym, Bike	Ea	6.000
8110058	Pav Mrkg, Oly Cold Plastic, Bike, Small Sym	Ea	6.000
8110307	Rem Curing Compound, for Longit Mrkg, 4 inch	Ft	375.000
8110308	Rem Curing Compound, for Longit Mrkg, 6 inch	Ft	750.000
8110321	Rem Curing Compound, for Spec Mrkg	Sft	50.000
8110332	Rem Raised Pavt Marker	Ea	20.000
8110343	Rem Spec Mrkg	Sft	364.000
8110450	Recessing Pavement Markings, Longit	Ft	11,443.000
8110451	Recessing Pavement Markings, Transv	Sft	332.000
8110500	Pav Mrkg, Wet Retrefc Polyurea, 4 inch, White	Ft	2,590.000
8110501	Pav Mrkg, Wet Retrefc Polyurea, 6 inch, White	Ft	5,760.000
8110504	Pav Mrkg, Wet Retrefc Polyurea, 4 inch, Yellow	Ft	3,919.000
8117001	_Pav Mrkg, Wet Retrefc Polyurea, 12 inch, Crosswalk	Ft	208.000
8117001	_Pav Mrkg, Wet Retrefc Polyurea, 24 inch, Stop Bar	Ft	39.000
8117050	_Pav Mrkg, Wet Retrefc Polyurea, Lt Turn Arrow Sym	Ea	1.000
8117050	_Pav Mrkg, Wet Retrefc Polyurea, Only	Ea	1.000
8117050	Pav Mrkg, Wet Retrefc, Type NR, Paint, 4 inch, White, Temp	Ea	1.000
8117050	_Pav Mrkg, Wet Retrefc Polyurea, Rt Turn Arrow Sym	Ea	1.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	21.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	21.000
8120140	Lighted Arrow, Type C, Furn	Ea	2.000
8120141	Lighted Arrow, Type C, Oper	Ea	2.000
8120210	Pav Mrkg, Longit, 6 inch or Less Width, Rem	Ft	663.000
8120260	Plastic Drum, High Intensity, Furn	Ea	279.000
8120261	Plastic Drum, High Intensity, Oper	Ea	279.000
8120310	Sign Cover	Ea	16.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	409.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	409.000
8167011	_Slope Restoration	Syd	625.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Dr Structure, Rem • Sewer, Rem, Less than 24 inch • _Dr Structure, 24 inch dia
DS	• _Dr Structure, Rem • Sewer, Rem, Less than 24 inch • _Dr Structure, Double Inlet
DSDI	• _Dr Structure, Point
PT	• _Dr Structure, Point
RRA	• _Dr Structure Cover, Type B • _Dr Structure Cover, Type B, Special • _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Temp Lowering, Modified
RRK	• _Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• _Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

CONSTRUCTION SCOPE AND SEQUENCING

CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AS DIRECTED BY THE ENGINEER, AND UTILIZING PART WIDTH TWO (2) PHASE CONSTRUCTION. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER. COMPLETE ITEMS 16 THRU 20 UTILIZING BOTH THE PHASE 1 AND PHASE 2 M.O.T. PLANS, SUPPLEMENTAL LANE CLOSURES, AND FLAG CONTROL OPERATIONS AS DIRECTED BY THE ENGINEER.

PHASE 1

- CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK.
- UPON RECEIVING MISS DIG SITE CLEARANCE INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO DRAINAGE ITEMS WITH EXCEPTION TO COLD MILLING.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT AREA, INCLUDING GATE AND MONUMENT BOXES.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, AS REQUIRED, INCLUDING CONCRETE PAVEMENT REPAIRS AND CONSTRUCTION OF NEW CONCRETE SHOULDER.
- PERFORM JOINT AND CRACK REPAIRS (DETAIL 7 AND/OR 8) ALL AS DETERMINED BY THE ENGINEER.
- REMOVE THE EXISTING HMA SURFACE (APPROXIMATELY 4.0 INCHES) IN FULL DEPTH HMA AND COMPOSITE PAVEMENT AREAS. REVEAL THE EXISTING CONCRETE PAVEMENT DURING COLD MILLING PROCESS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- PERFORM ADDITIONAL COLD MILLING AND HAND PATCHING IN FULL DEPTH HMA AREAS TO ADDRESS REPAIR LOCATIONS IN THE MILLED SURFACE AS DESIGNATED BY THE ENGINEER. PERFORM ADDITIONAL CONCRETE COLD MILLING IN COMPOSITE PAVEMENT AREAS AS DIRECTED BY THE ENGINEER.
- PROOF ROLL AND PERFORM UNDERCUTS AND BASE REPAIRS INCLUDING HAND PATCHING, AND PERFORM ADDITIONAL JOINT AND CRACK REPAIRS (DETAIL 7 AND/OR 8) ALL AS DETERMINED BY THE ENGINEER.
- PERFORM BUMP GRINDING AS DIRECTED BY THE ENGINEER.
- WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (4E3, HIGH STRESS), AND PLACE TEMPORARY PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER.

PHASE 2

- REPEAT ITEMS 1 THRU 14 IN THE ORDER SHOWN.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION AS REQUIRED.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH TOP COURSE HMA MIX (5E3, HIGH STRESS) AND TEMPORARY PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER.
- CLEAN PAVEMENT AND PLACE HMA APPROACHES AS REQUIRED.
- PLACE AGGREGATE SHOULDERS.
- PERFORM SLOPE RESTORATION
- CLEAN PAVEMENT AND COMPLETE ALL PERMANENT PAVEMENT MARKINGS INCLUDING THE REMOVAL OF TEMPORARY PAVEMENT MARKINGS AS REQUIRED.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES AND MISS DIG FLAGS.
- OPEN STREET TO ALL TRAFFIC.

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.

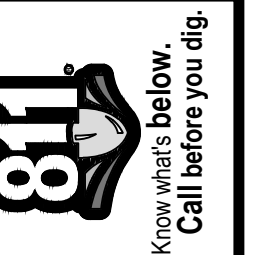
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
8.0	D3-1	Street Name Sign	4.000	32.000
4.0	G20-2	End Road Work	8.000	32.000
12.0	R2-1	Speed Limit	7.500	90.000
2.0	R5-18c	Work Zone Begins	16.000	32.000
2.0	W3-5B	Reduce Speed Zone	16.000	32.000
2.0	W4-2R	Lane Ends (Right)	16.000	32.000
5.0	W11-1	Bicycle	6.250	32.000
5.0	W16-1P	Share The Road	3.000	15.000
7.0	W20-1	Wroad Work Ahead	16.000	112.000
TOTAL				409.000

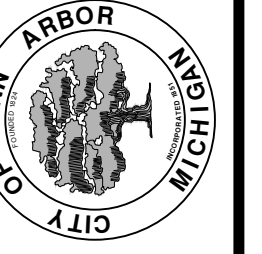


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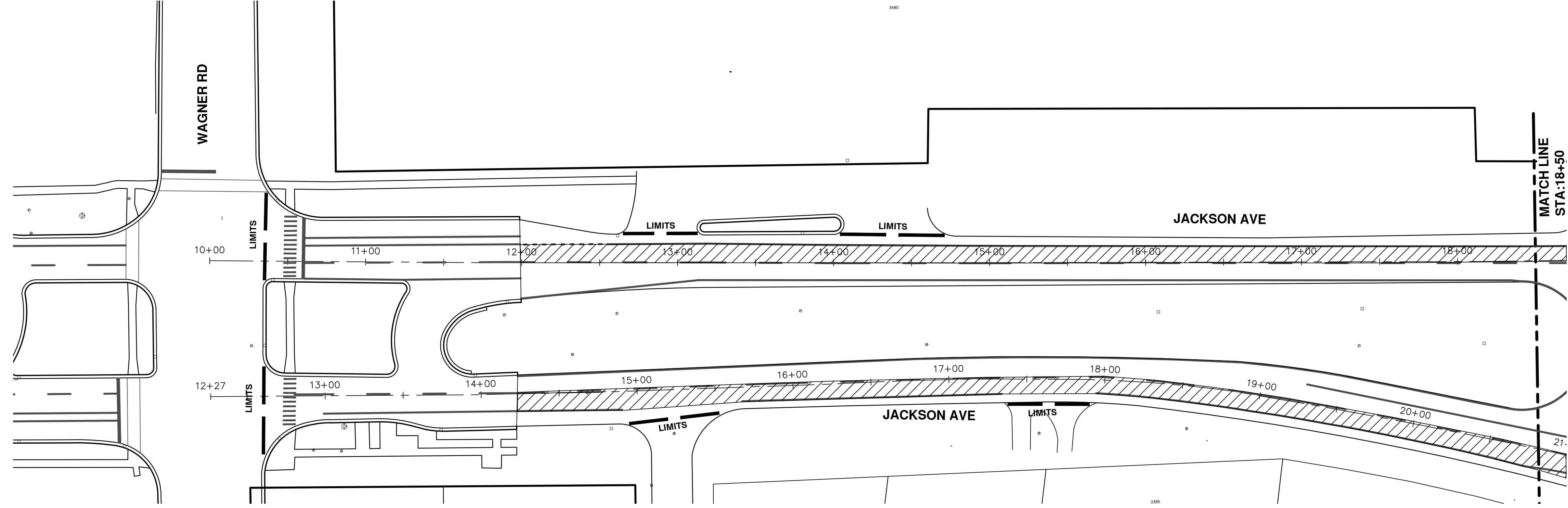
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			3-15-18		DAD
			2-27-18		DAD
					CHECKED
					DRAWN
					GSCCE

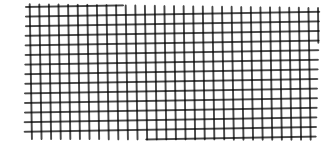
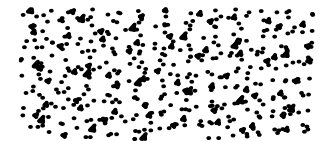
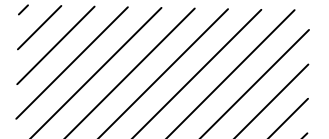
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PROJECT MANAGEMENT - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
EB & WB JACKSON AVENUE

SCALE
DRAWING No.
2018004-40
SHEET No.
40 OF 77

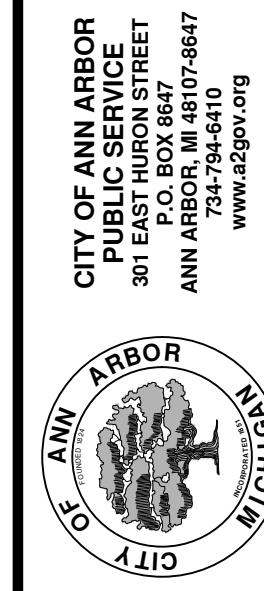


	FULL DEPTH HOT MIX ASPHALT (HMA) PAVEMENT
	FULL DEPTH CONCRETE (PCC) PAVEMENT
	COMPOSITE PAVEMENT HOT MIX ASPHALT (HMA) OVER (PCC)



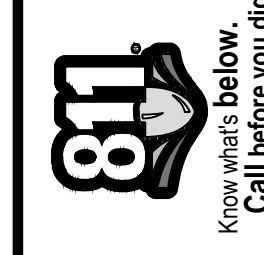
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
 JACKSON AVENUE
 STA. 10+00 - STA. 18+50 PHASE1

SCALE PLAN: 1"=80'
 DRAWING No. 2018004-41

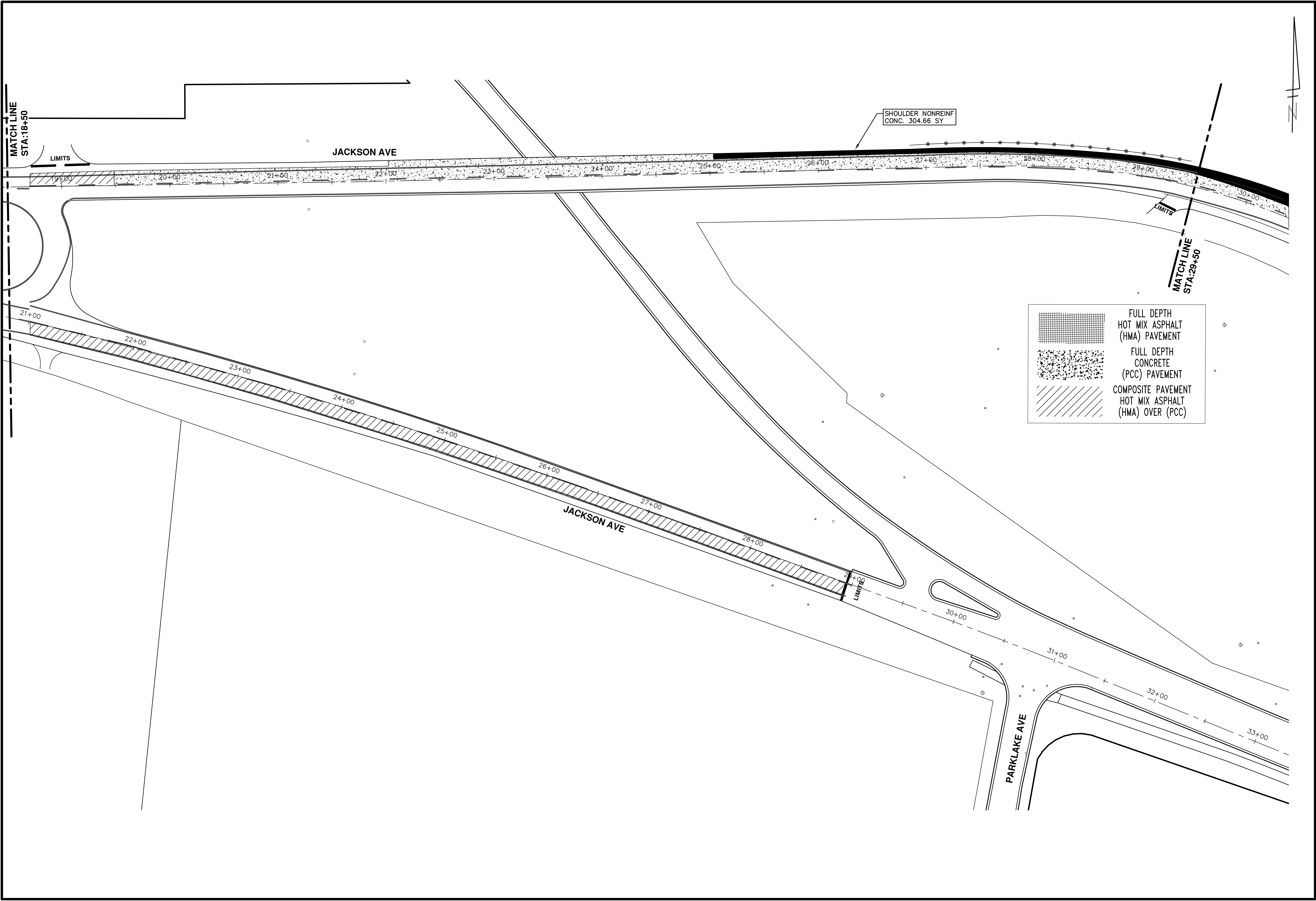


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD



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STREET RESURFACING PROJECT - 2018
 EB & WB JACKSON AVENUE
 STA. 18+50 - STA. 29+50 PHASE I

SCALE PLAN: 1"=80'
 DRAWING No. 2018004-42

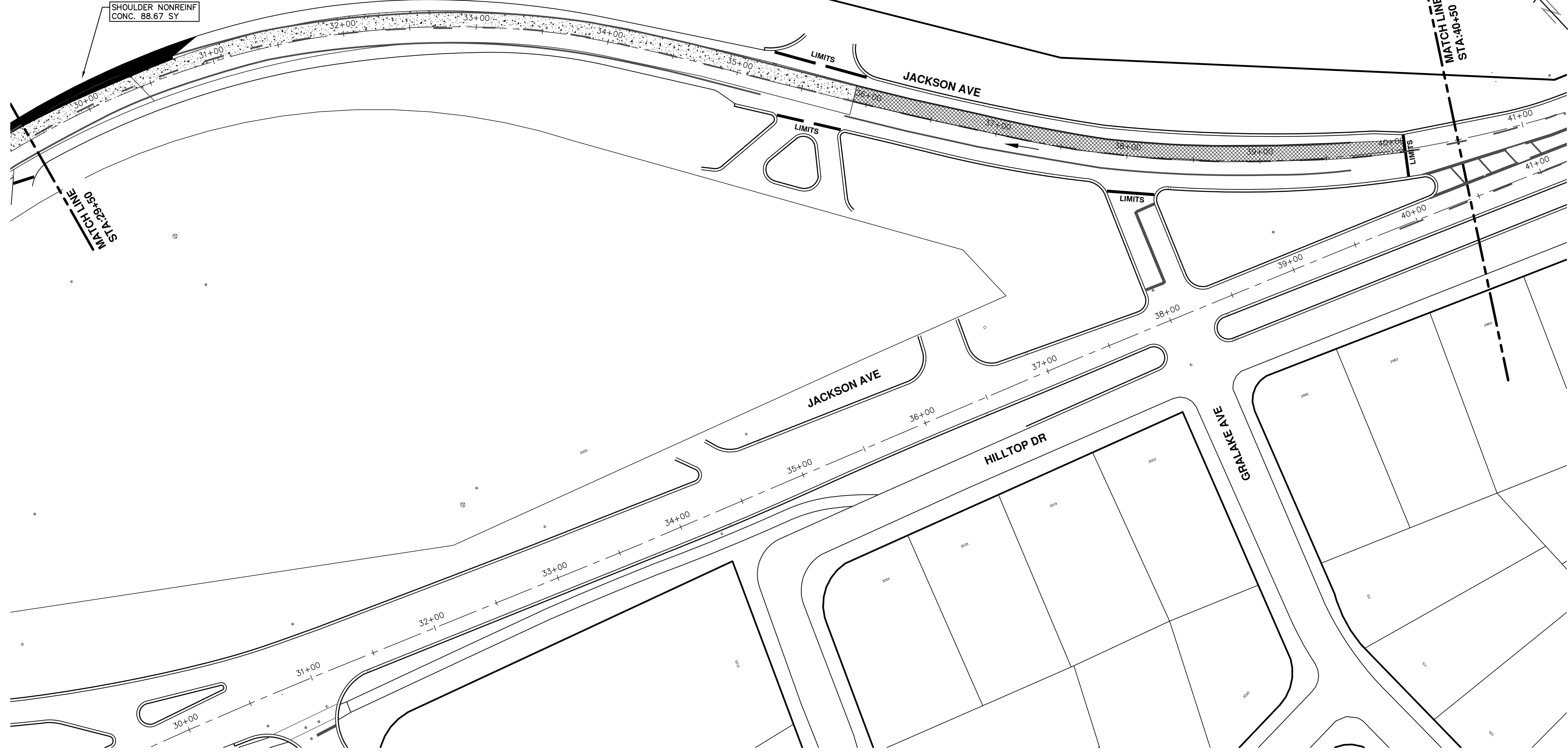
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD

SHEET No. **42 OF 77**

T:\2018004\Plan Production\Major Streets\2018004 - WB Jackson Avenue.dwg Created: 27-Sep-17 - _a2_standard_bw.stb - Plot Date: 23-Mar-18



	FULL DEPTH HOT MIX ASPHALT (HMA) PAVEMENT
	FULL DEPTH CONCRETE (PCC) PAVEMENT
	COMPOSITE PAVEMENT HOT MIX ASPHALT (HMA) OVER (PCC)

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STREET RESURFACING PROJECT - 2018
 EB & WB JACKSON AVENUE
 STA. 29+50 - STA. 40+50 PHASE I

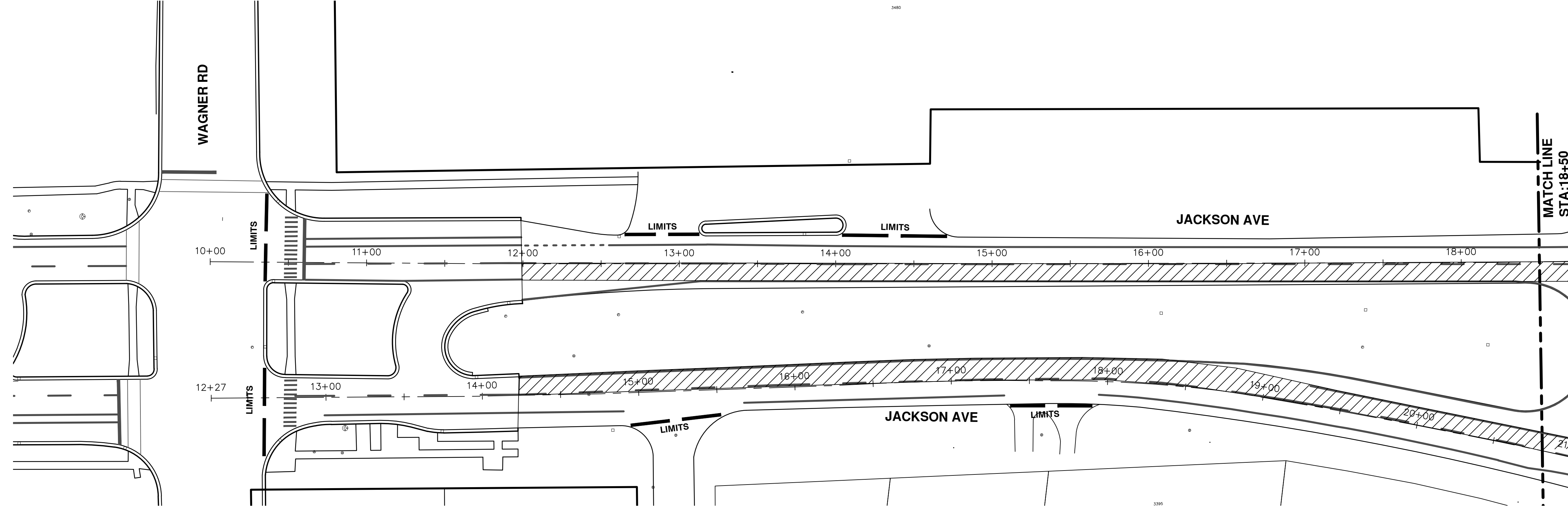
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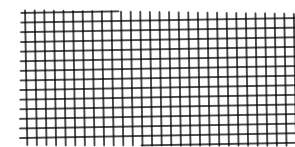
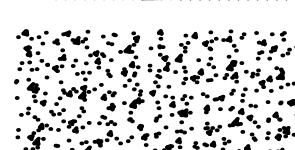

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD



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CITY OF ANN ARBOR MICHIGAN

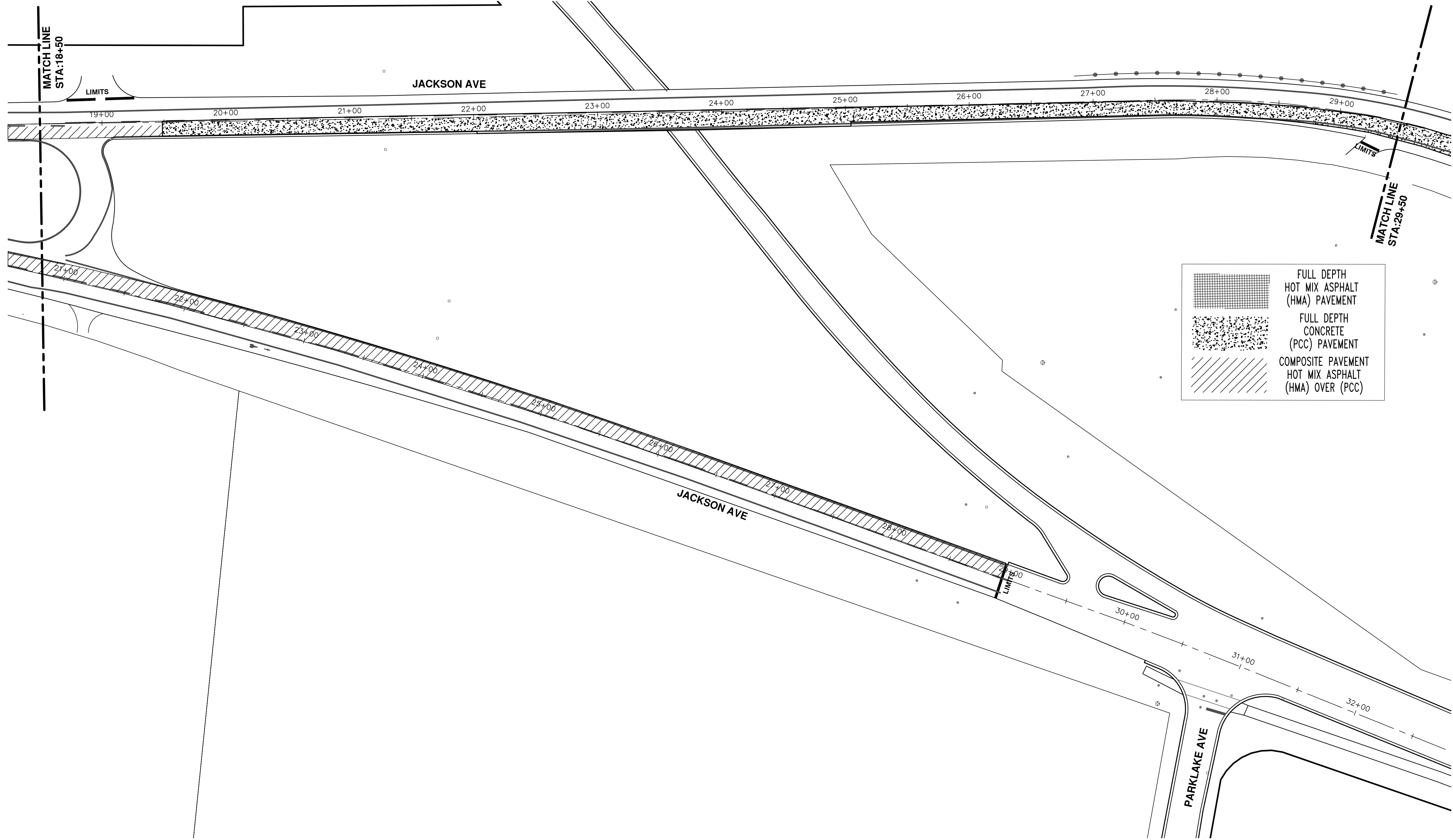


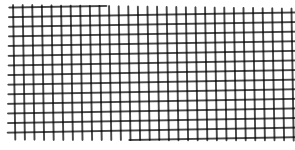
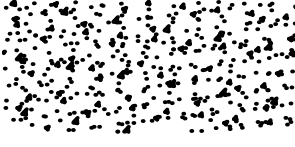
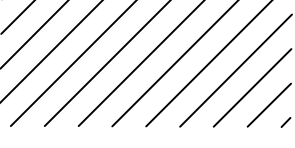
	FULL DEPTH HOT MIX ASPHALT (HMA) PAVEMENT
	FULL DEPTH CONCRETE (PCC) PAVEMENT
	COMPOSITE PAVEMENT HOT MIX ASPHALT (HMA) OVER (PCC)



			
<p>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR STREET RESURFACING PROJECT - 2018 JACKSON AVENUE STA. 10+00 - STA. 18+50 PHASE2</p>		<p>City of Ann Arbor Public Service 301 East Huron Street Ann Arbor, MI 48106-8647 www.a2gov.org</p>	
SCALE PLAN: 1"=80' DRAWING No. 2018004-44	SHEET No. 44 OF 77	ADDENDUM #2 3-23-18 DATE 3-15-18 GSCCE DAD	ADDENDUM #1 3-15-18 GSCCE DAD
BID SET 00 REV.	DESCRIPTION DATE 2-27-18 GSCCE DAD	DRAWN DATE 2-27-18 GSCCE DAD	CHECKED DATE 3-23-18 GSCCE DAD

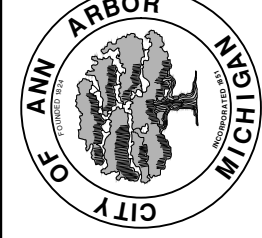
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	FULL DEPTH HOT MIX ASPHALT (HMA) PAVEMENT
	FULL DEPTH CONCRETE (PCC) PAVEMENT
	COMPOSITE PAVEMENT HOT MIX ASPHALT (HMA) OVER (PCC)

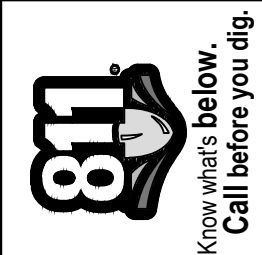
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 STREET RESURFACING PROJECT - 2018
 JACKSON AVENUE
 STA. 18+50 - STA. 29+50 PHASE 2

SCALE PLAN: 1"=80'
 DRAWING No. 2018004-45



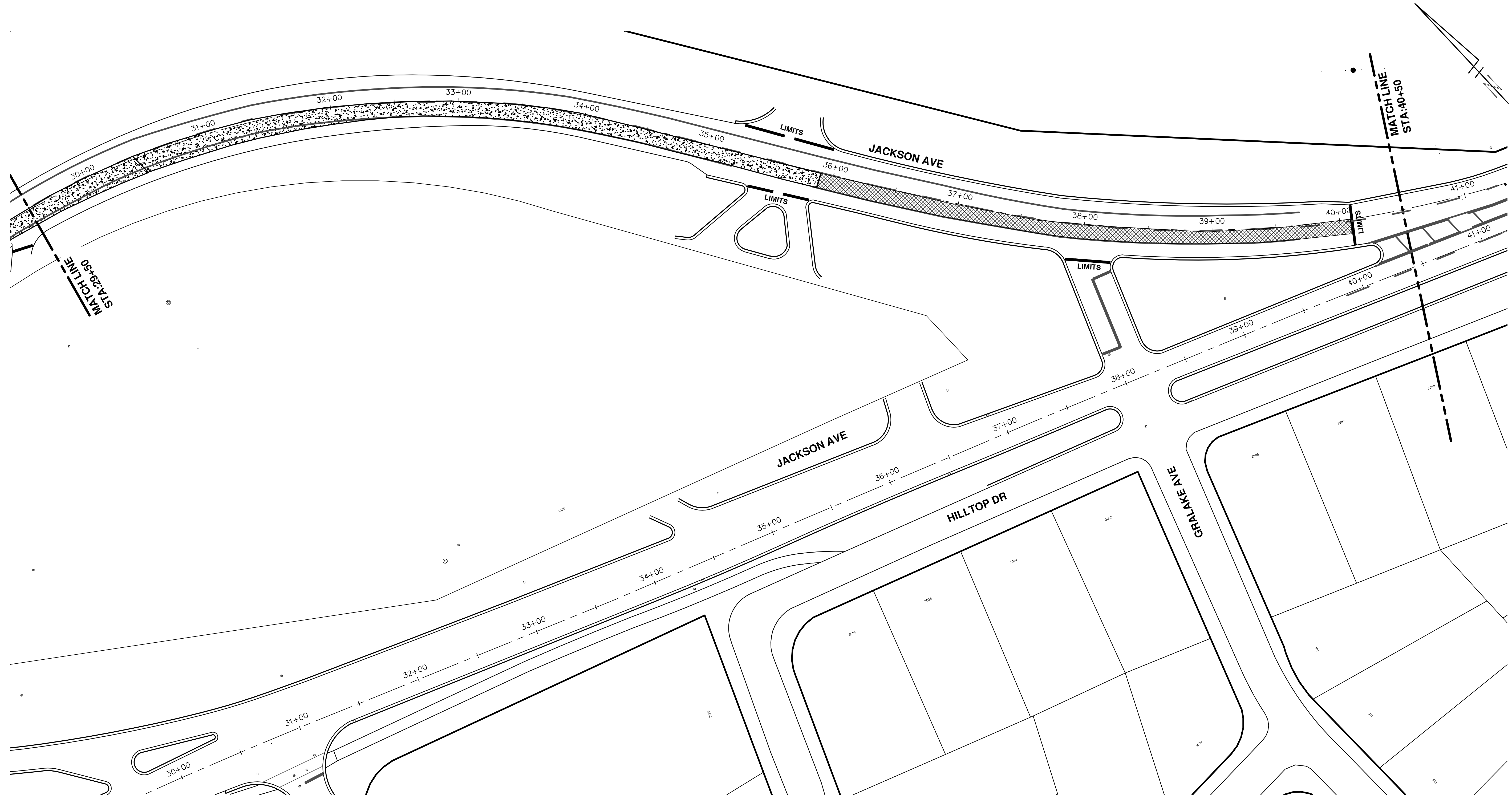
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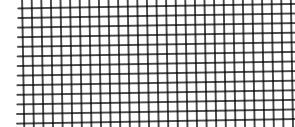
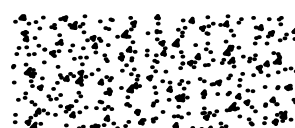
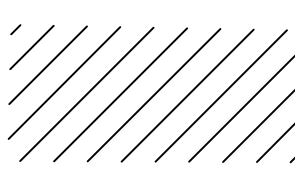
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD



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	FULL DEPTH HOT MIX ASPHALT (HMA) PAVEMENT
	FULL DEPTH CONCRETE (PCC) PAVEMENT
	COMPOSITE PAVEMENT HOT MIX ASPHALT (HMA) OVER (PCC)

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STREET RESURFACING PROJECT - 2018
 JACKSON AVENUE
 STA. 29+50 - STA. 40+50 PHASE 2

SCALE PLAN: 1"=80'
 DRAWING No. 2018004-46

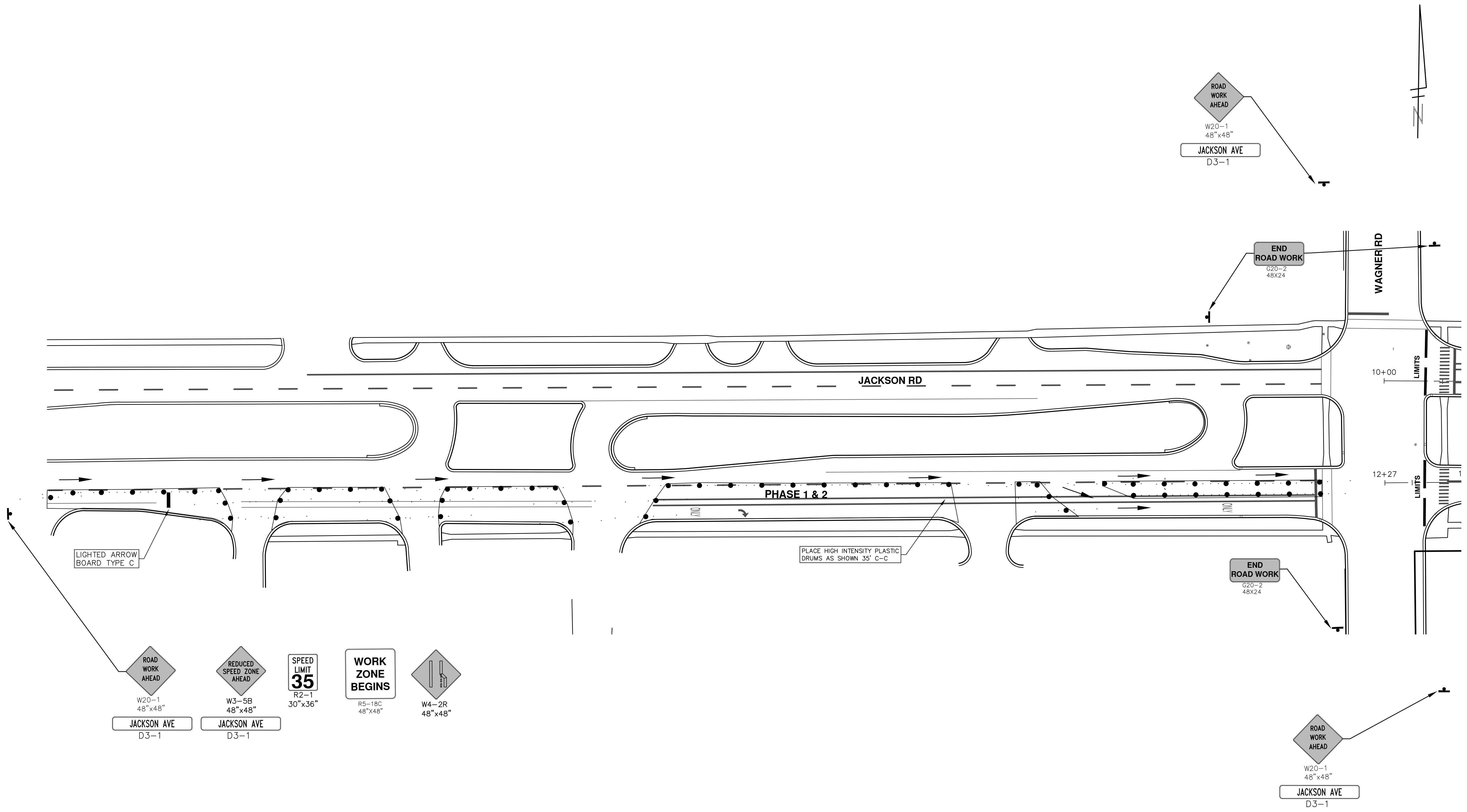
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD

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 W20-1 48" x 48" JACKSON AVE D3-1	 W3-5B 48" x 48" JACKSON AVE D3-1	 SPEED LIMIT 35 R2-1 30" x 36"	 WORK ZONE BEGINS R5-18C 48" x 48"	 W4-2R 48" x 48"
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 STREET RESURFACING PROJECT - 2018
 JACKSON AVENUE

SCALE PLAN: Custom
 DRAWING No. 2018004-47

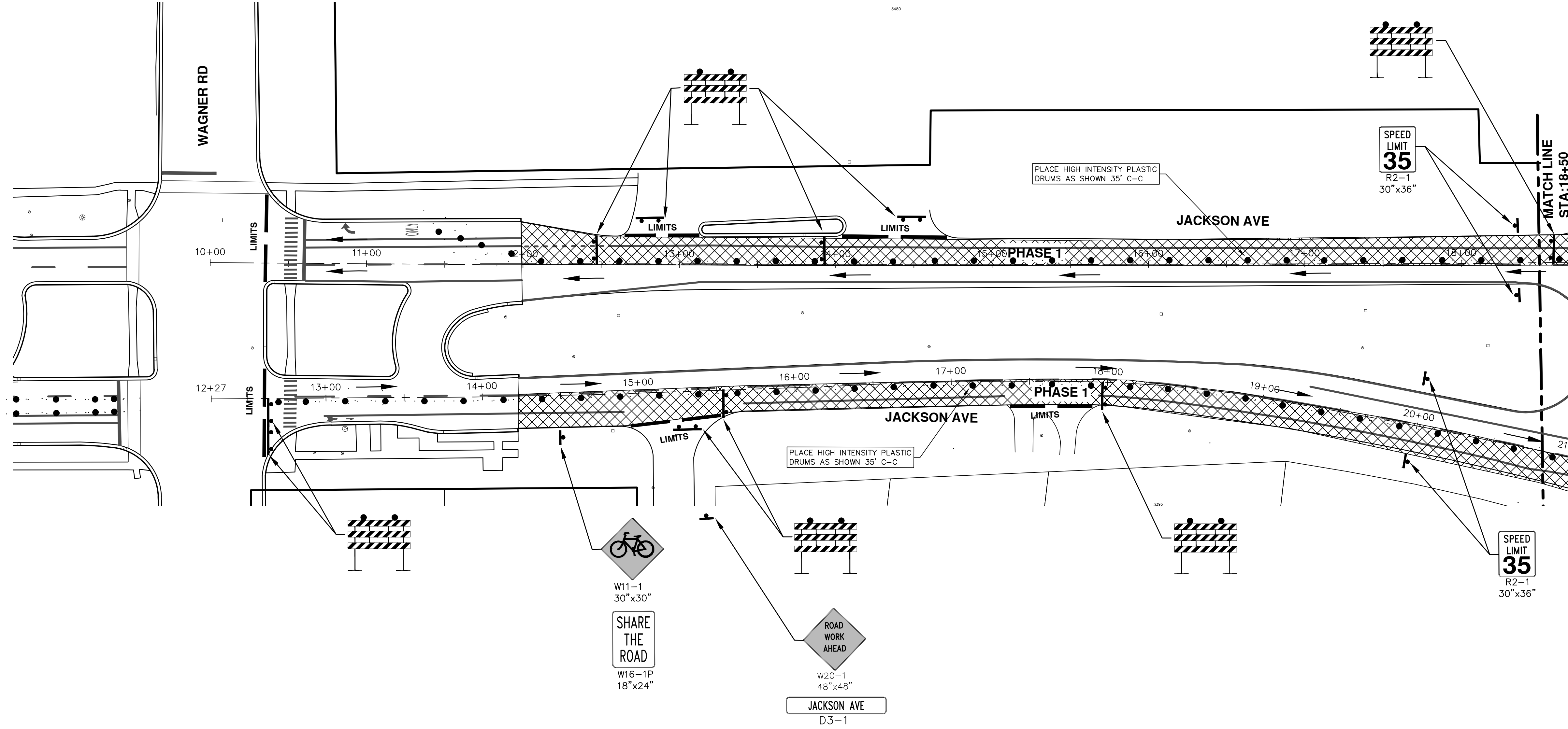
STA. 0+00 - STA. 10+00 TRAFFIC CONTROL PHASE 1 / PHASE 2

47 OF 77

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD

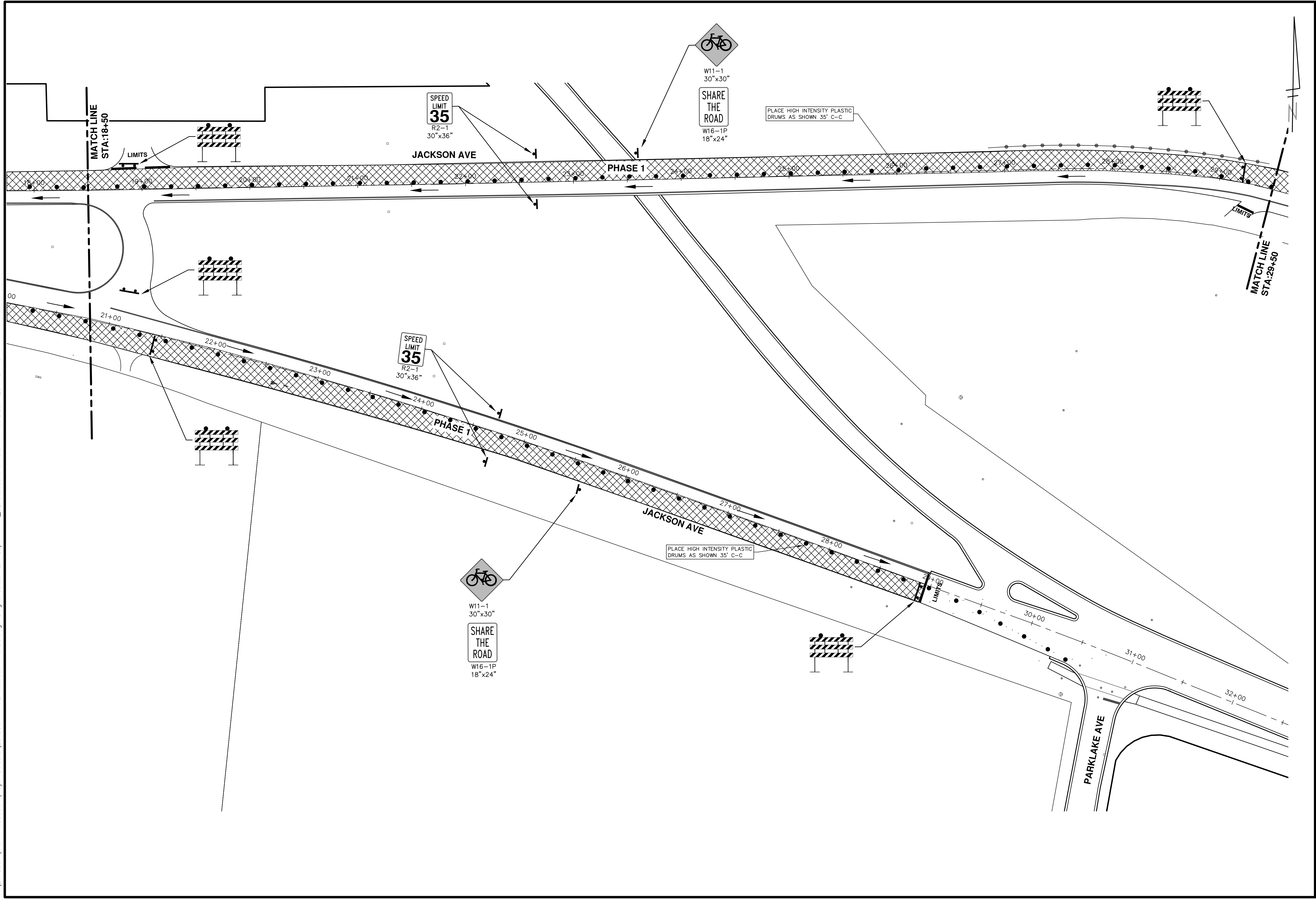
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
 JACKSON AVENUE
 STA. 10+00 - STA. 18+50 TRAFFIC CONTROL PHASE 1

SCALE PLAN: 1"=80'
 DRAWING No. 2018004-48

T:\2018004\Plan Production\Major Streets\2018004 - WB Jackson Avenue.dwg Created: 27-Sep-17 - _a2_standard_bw.stb - Plot Date: 23-Mar-18



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STREET RESURFACING PROJECT - 2018
 JACKSON AVENUE

SCALE PLAN: 1"=80'
 DRAWING No. 2018004-49

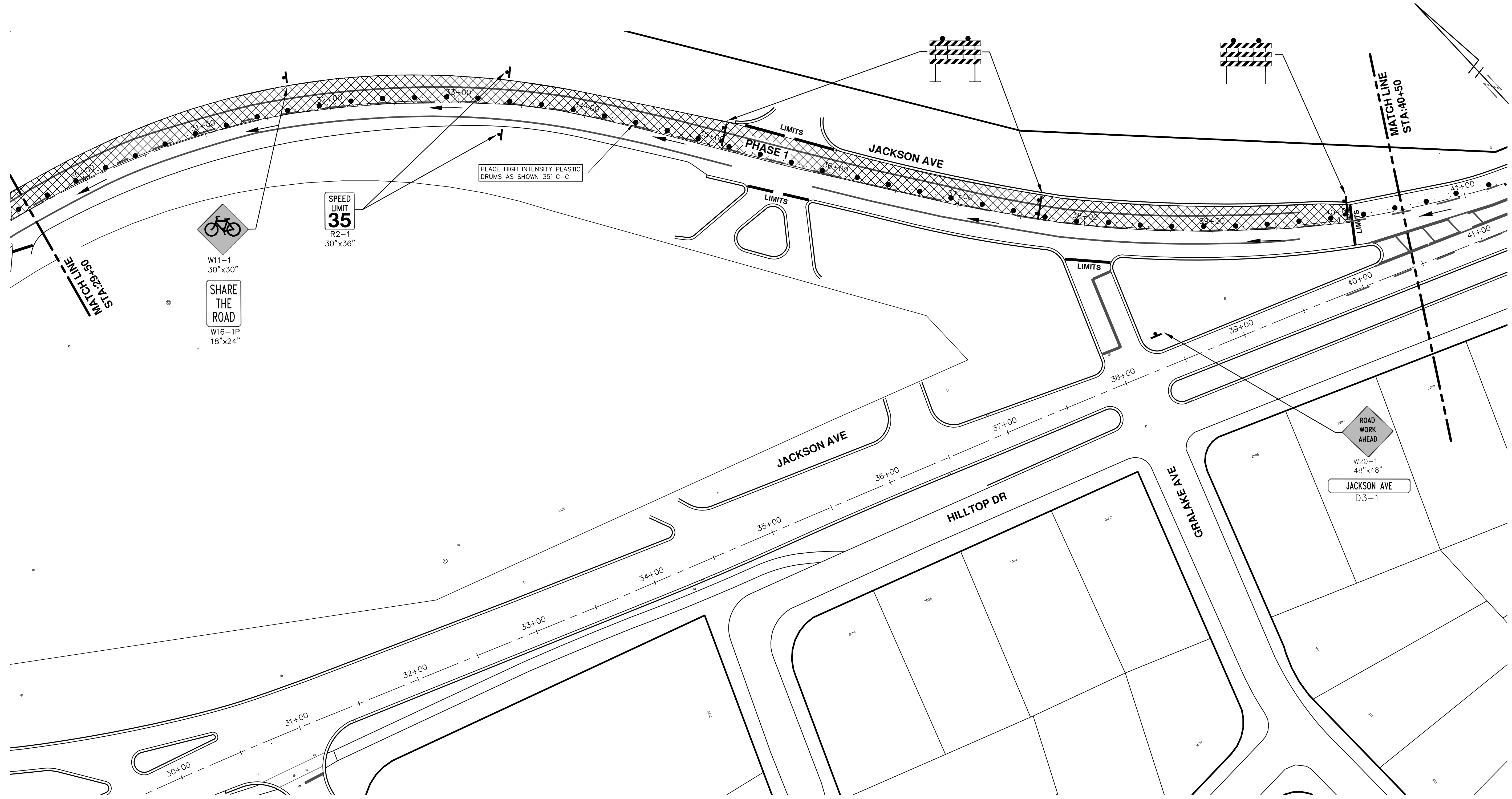
STA. 18+50 - STA. 29+50 TRAFFIC CONTROL PHASE 1

REV.	BID SET	DATE	DRAWN	CHECKED
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01	ADDENDUM #2			
01		3-23-18	GSCE	DAD
		3-15-18	GSCE	DAD
		2-27-18	GSCE	DAD

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STREET RESURFACING PROJECT - 2018
 JACKSON AVENUE

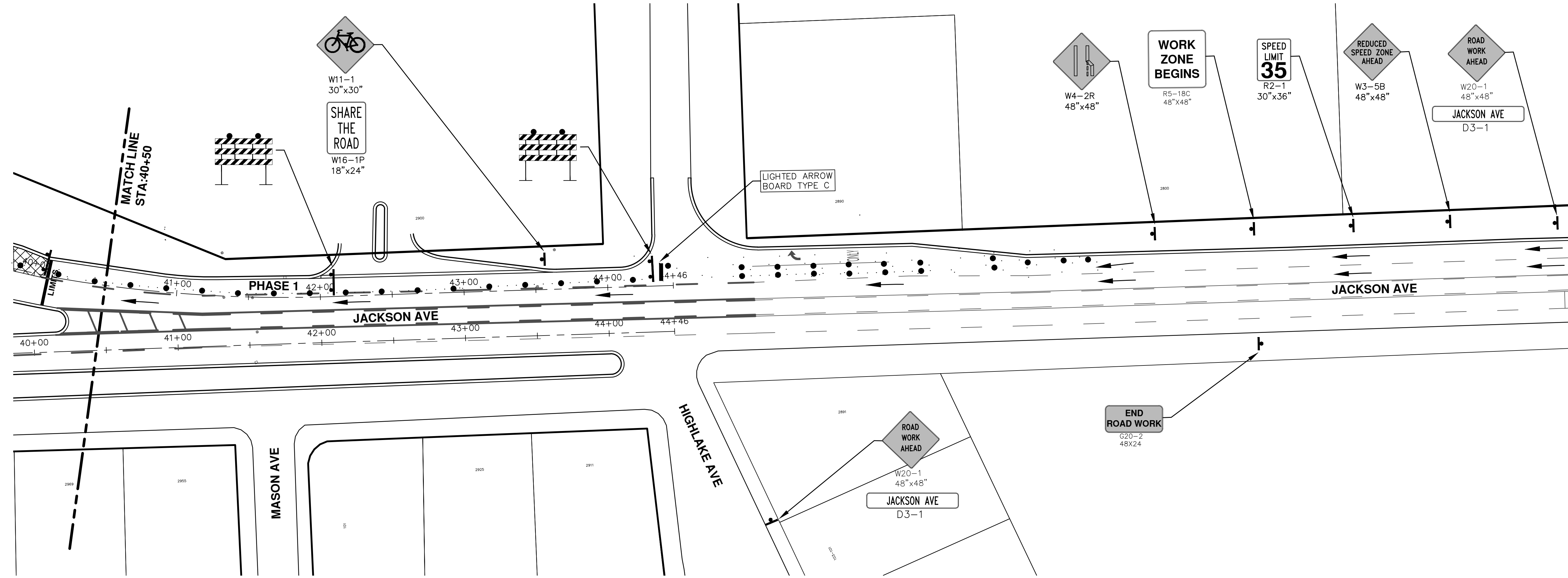
SCALE PLAN: 1"=80'
 DRAWING No. 2018004-50

STA. 29+50 - STA. 40+50 TRAFFIC CONTROL PHASE 1

50 OF 77

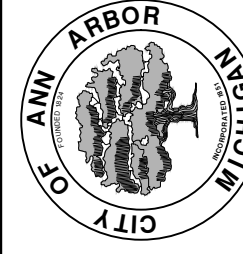
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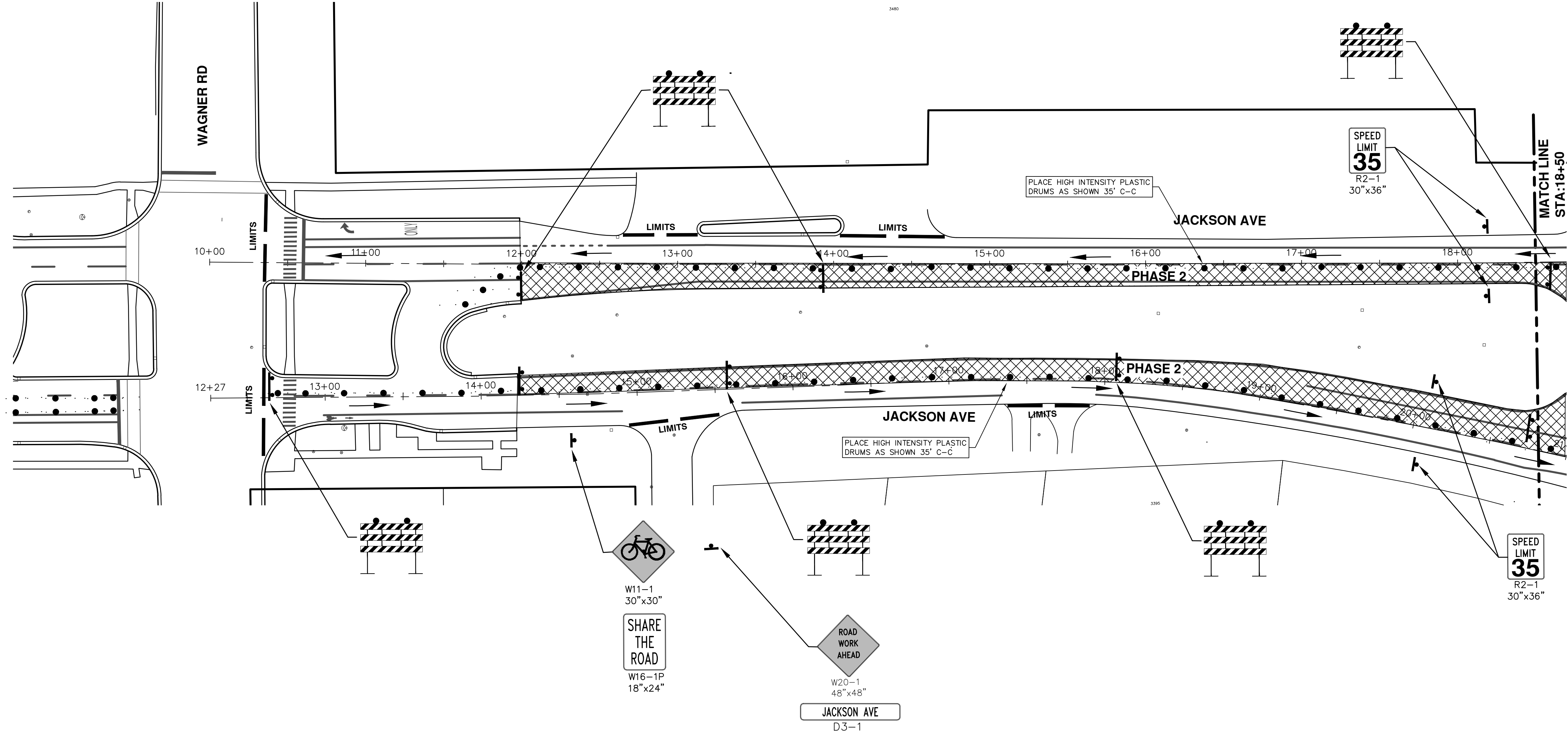
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00	BID SET	2-27-18	GSCE	DAD

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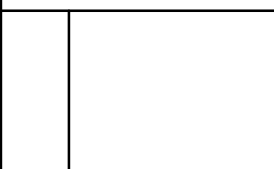
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STREET RESURFACING PROJECT - 2018
 JACKSON AVENUE
 STA. 40+50 - STA. 44+46 TRAFFIC CONTROL PHASE 1

SCALE PLAN: 1"=80'
 DRAWING No. 2018004-51



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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01	ADDENDUM #1	3-15-18	GSCE	DAD
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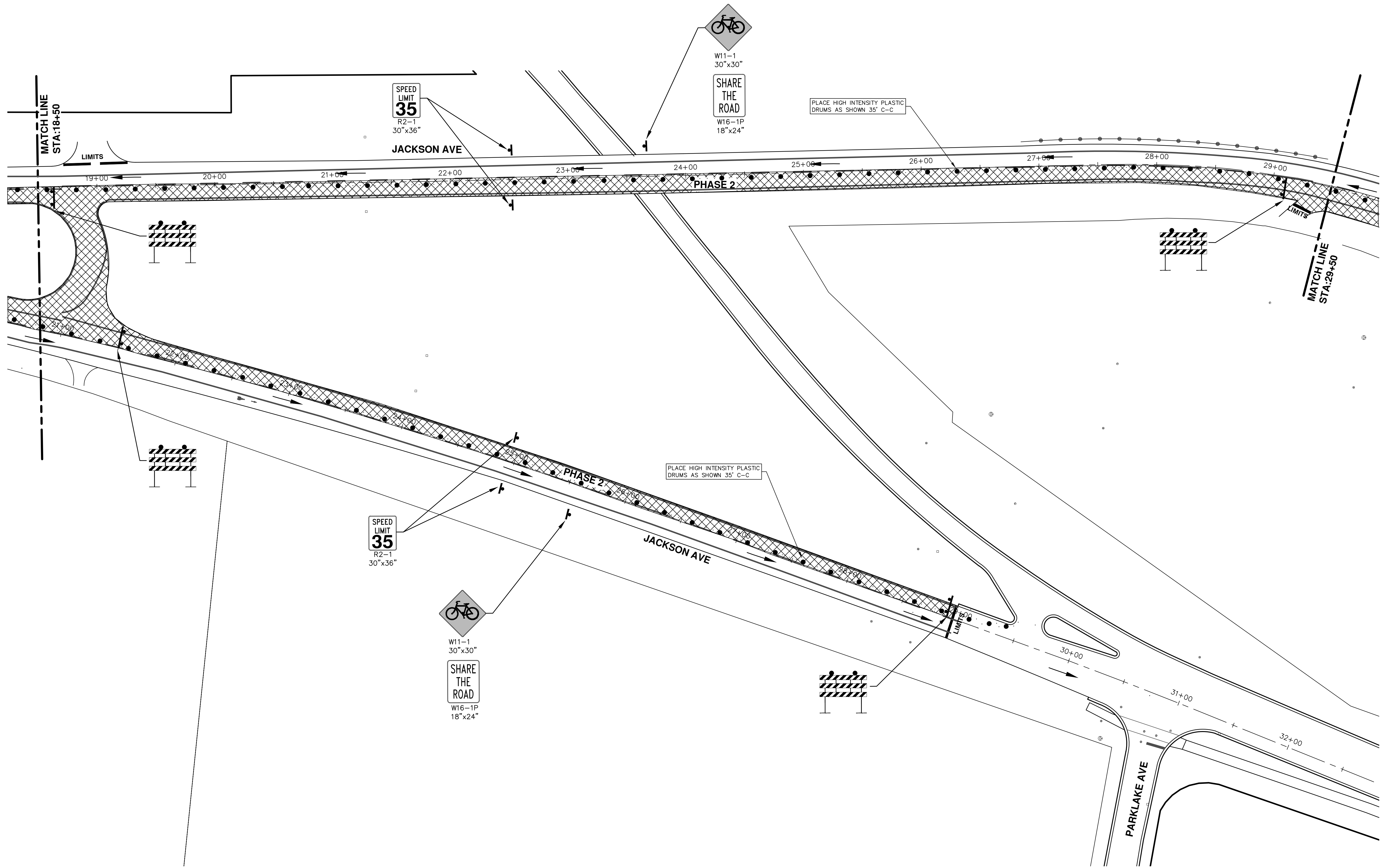
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STREET RESURFACING PROJECT - 2018
 JACKSON AVENUE
 STA. 10+00 - STA. 18+50 TRAFFIC CONTROL PHASE 2

SCALE PLAN: 1"=80'
 DRAWING No. 2018004-52

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REV.	DATE	DRAWN	CHECKED	DESCRIPTION
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01	3-15-18	GSCE	DAD	ADDENDUM #1
00	2-27-18	GSCE	DAD	BID SET

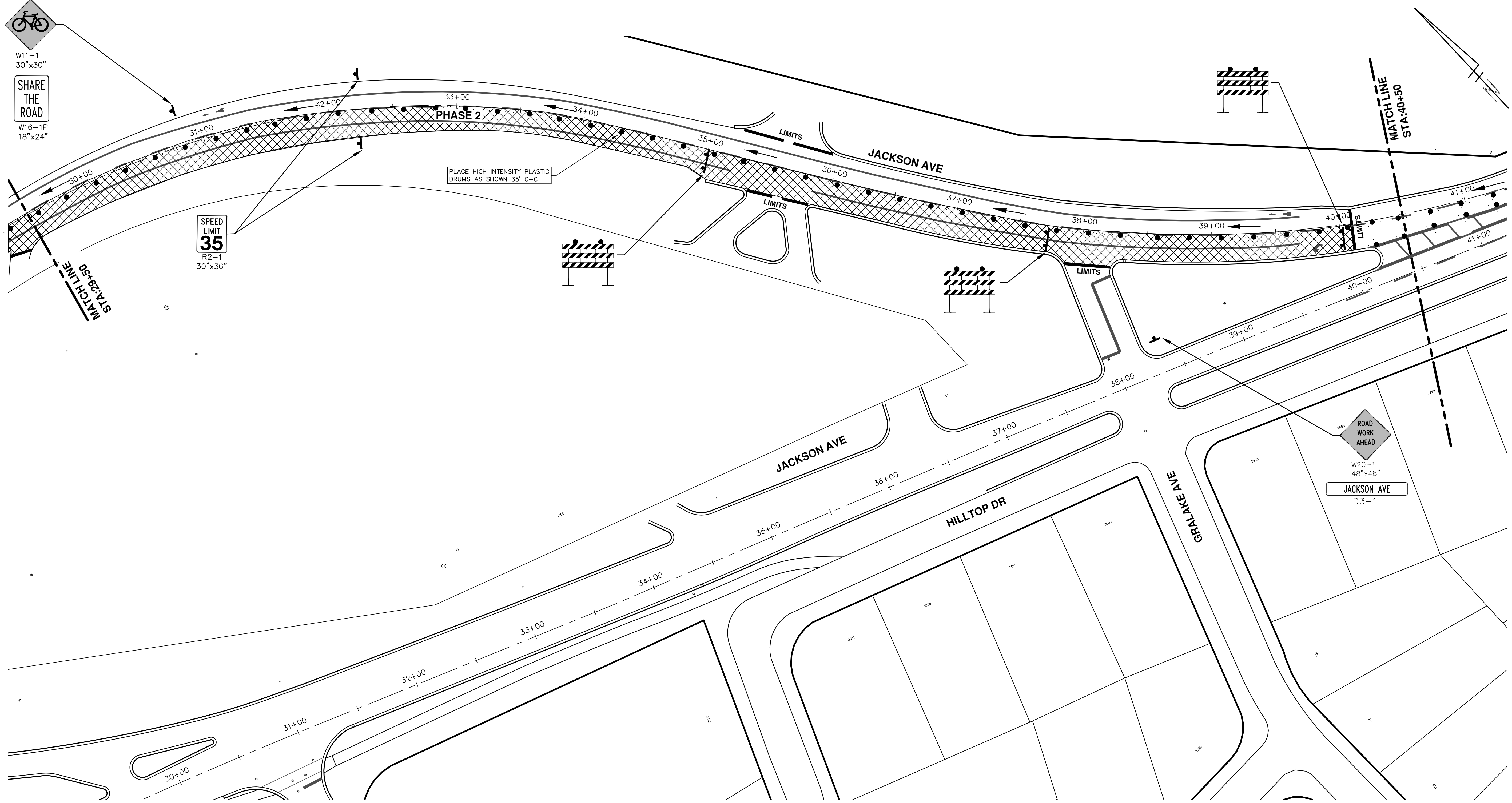
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STA. 18+50 - STA. 29+50 TRAFFIC CONTROL PHASE 2

SCALE PLAN: 1"=80'
DRAWING No. 2018004-53

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STREET RESURFACING PROJECT - 2018
 JACKSON AVENUE

SCALE PLAN: 1"=80'
 DRAWING No. 2018004-54

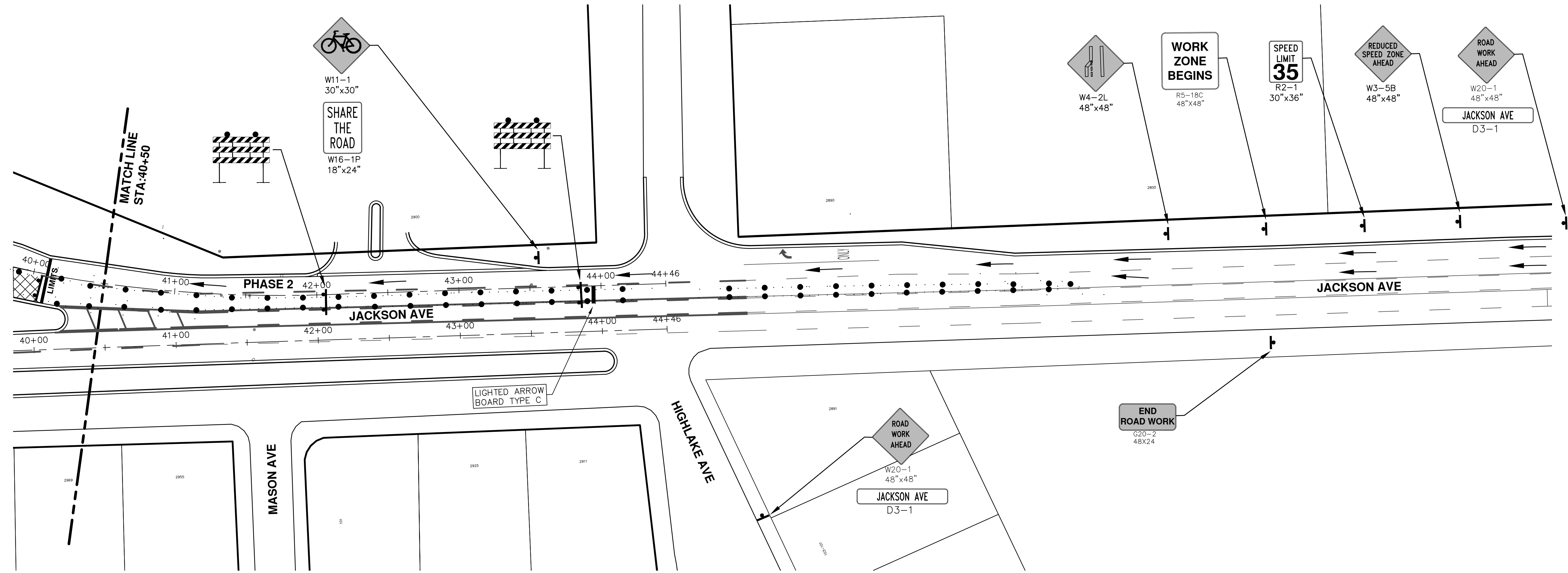
STA. 29+50 - STA. 40+50 TRAFFIC CONTROL PHASE 2

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD

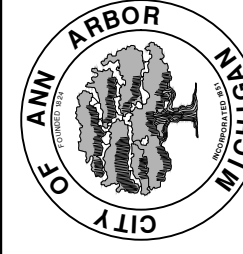
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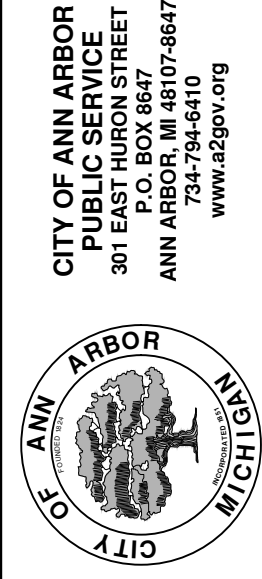
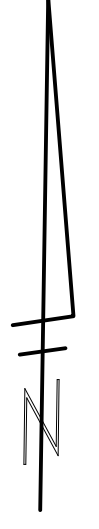
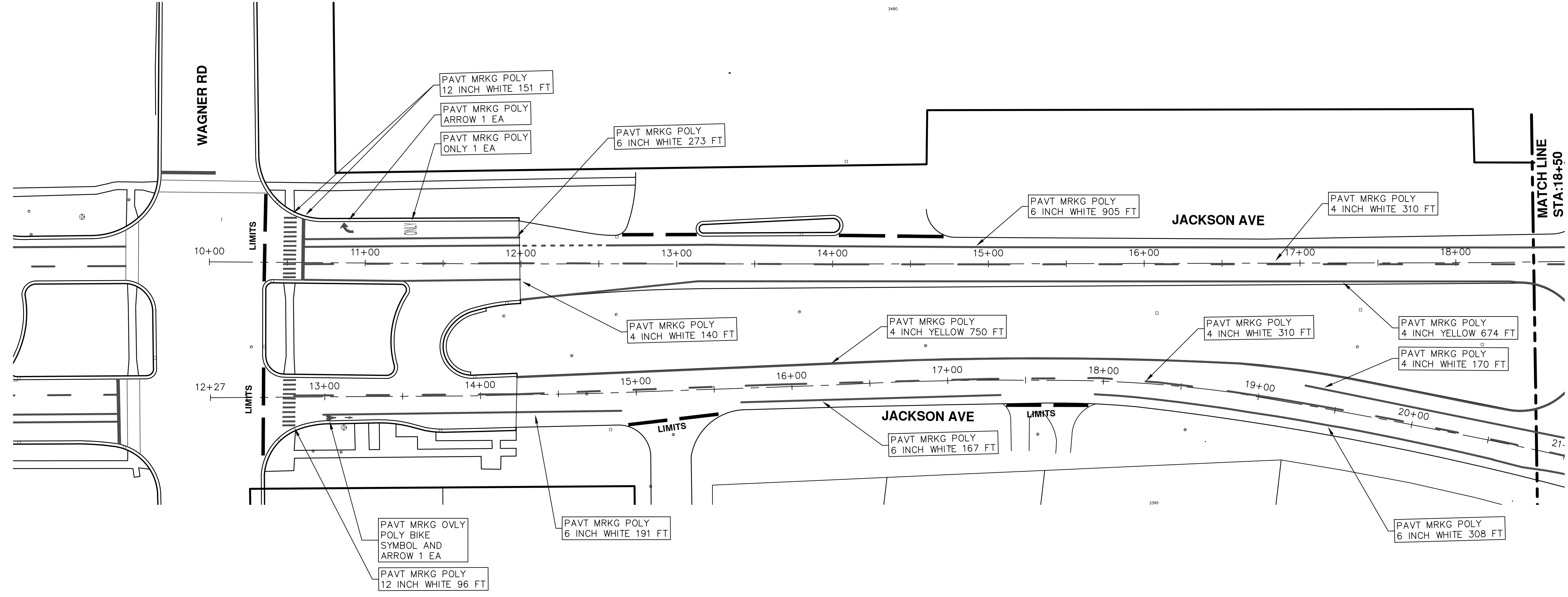
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 JACKSON AVENUE
 STA. 40+50 - STA. 44+46 TRAFFIC CONTROL PHASE 2

SCALE PLAN: 1"=8'
 DRAWING No. 2018004-55

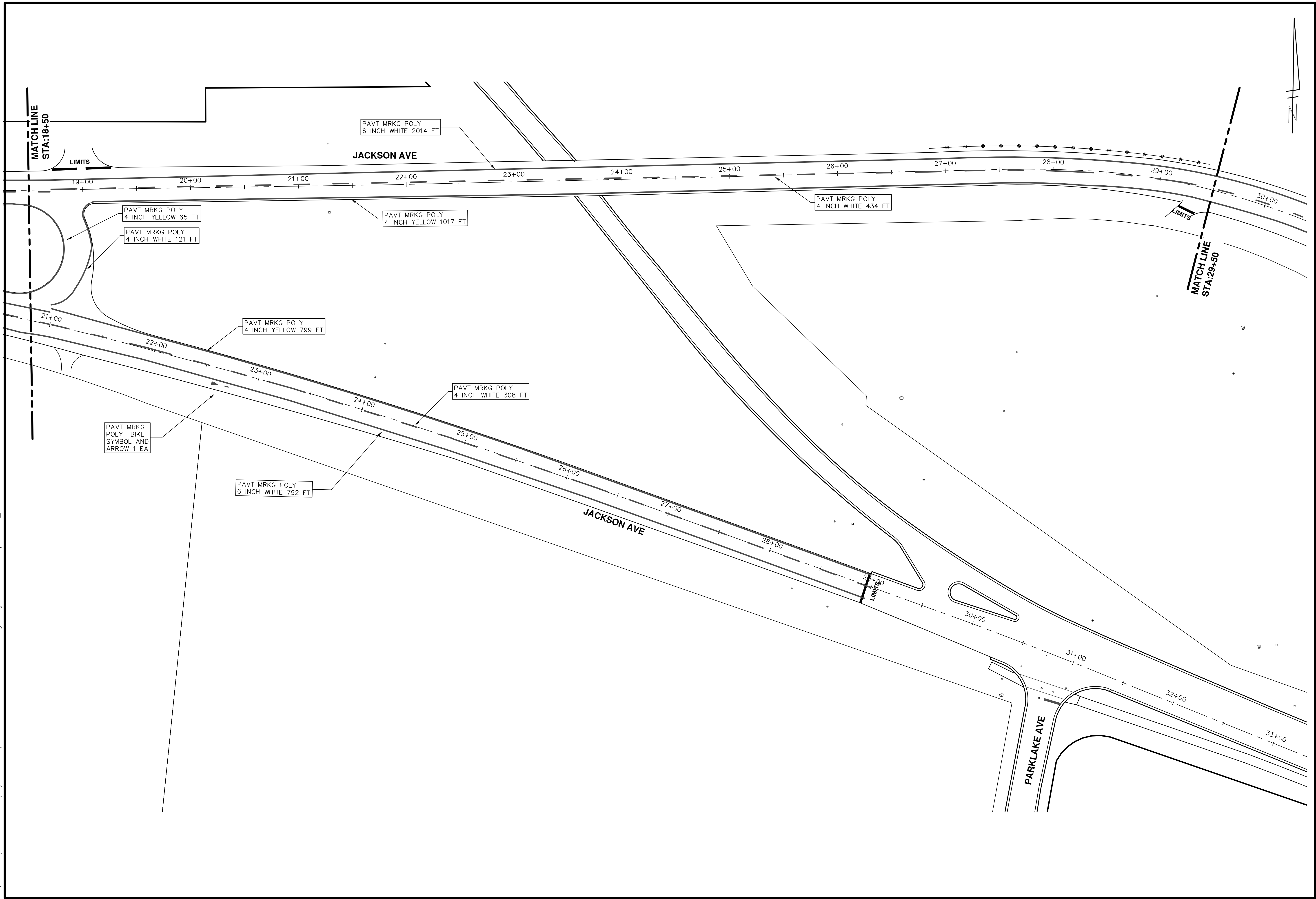
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD



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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
 JACKSON AVENUE
 STA. 18+50 - STA. 29+50 PAVEMENT MARKINGS

SCALE PLAN: 1"=80'
 DRAWING No. 2018004-57

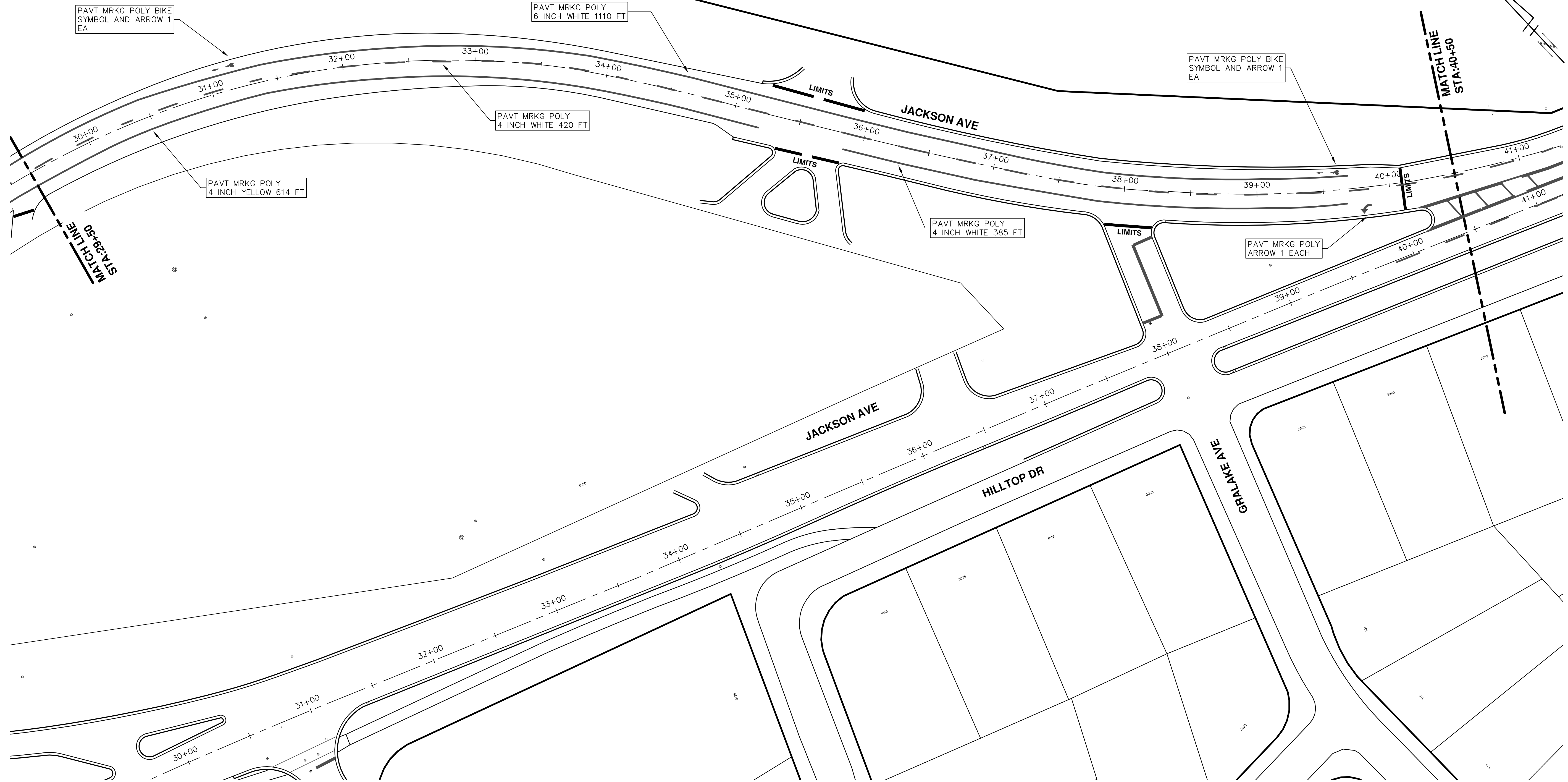
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
JACKSON AVENUE
STA. 29+50 - STA. 40+50 PAVEMENT MARKINGS

SCALE PLAN: 1"=80'
DRAWING No. 2018004-58



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: STONE SCHOOL ROAD

ITB No. 4529 FILE No. 2018-004

T:\2018004\Plan Production\Stone School Rd_2018004 - Stone School Rd.dwg Created: 4-Jan-18 - 10:2 standard bw.stb - Plot Date: 23-Mar-18

QUANTITIES			
Item Code	Item Description	Units	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	380.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	34.000
2057011	_Grading, Driveway Approach	Syd	25.000
2057011	_Grading, Sidewalk	Syd	9.000
2080036	Erosion Control, Silt Fence	Ft	25.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	30.000
4030200	Dr Structure, 24 inch dia	Ea	3.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	3.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	7.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	8.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	4.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	60.000
5010003	Cold Milling HMA Surface	Syd	5,640.000
5010005	HMA Surface, Rem	Syd	49.000
5010051	HMA, 4E1	Ton	621.000
5010057	HMA, 5E1	Ton	621.000
6027021	_Flowable Fill	Cyd	8.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	25.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	260.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	170.000
8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	75.000
8110058	Pav Mrkg, Ovy Cold Plastic, Bike, Small Sym	Ea	4.000
8110079	Pav Mrkg, Ovy Cold Plastic, Sharrow Symbol	Ea	4.000
8110343	Rem Spec Mrkg	Sft	97.000
8110195	Pav Mrkg, Thermopl, 4 inch, White	Ft	120.000
8110198	Pav Mrkg, Thermopl, 6 inch, White	Ft	2,503.000
8110196	Pav Mrkg, Thermopl, 4 inch, Yellow	Ft	3,325.000
8110213	Pav Mrkg, Thermopl, 12 inch, Cross Hatching, Yellow	Ft	80.000
8110214	Pav Mrkg, Thermopl, 12 inch, Crosswalk	Ft	144.000
8110218	Pav Mrkg, Thermopl, 24 inch, Stop Bar	Ft	56.000
8117050	_Pav Mrkg, Thermopl, Thru Arrow Sym	Ea	1.000
8117050	_Pav Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	2.000
8117050	_Pav Mrkg, Thermopl, Only	Ea	5.000
8117050	_Pav Mrkg, Thermopl, Rt Turn Arrow Sym	Ea	2.000
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
8120140	Lighted Arrow, Type C, Furn	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120200	Pav Mrkg Cover, Type R, Black	Ft	120.000
8120210	Pav Mrkg, Wet Retrflec, Type NR, Paint, 4 inch, White, Temp	Ft	640.000
8120235	Pav Mrkg, Wet Retrflec, Type R, Tape, 4 inch, White, Temp	Ft	65.000
8120235	Pav Mrkg, Wet Retrflec, Type R, Tape, 4 inch, Yellow, Temp	Ft	278.000
8120260	Plastic Drum, High Intensity, Furn	Ea	170.000
8120261	Plastic Drum, High Intensity, Oper	Ea	170.000
8120310	Sign Cover	Ea	10.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	183.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	183.000
8167011	_Slope Restoration	Syd	86.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• Grading, Driveway Approach • Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc, 6 inch, Modified • Driveway, Nonreinf Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet
PT	• Dr Structure, Point
RRA	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

CONSTRUCTION SCOPE AND SEQUENCING

CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AS DIRECTED BY THE ENGINEER, AND UTILIZING PART WIDTH TWO (2) PHASE CONSTRUCTION. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER. COMPLETE ITEMS 11 THRU 16 UTILIZING BOTH THE PHASE 1 AND PHASE 2 M.O.T. PLANS, SUPPLEMENTAL LANE CLOSURES, AND FLAG CONTROL OPERATIONS AS DIRECTED BY THE ENGINEER.

- | | |
|---|--|
| <p>PHASE 1</p> <ol style="list-style-type: none"> CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK. UPON RECEIVING MISS DIG SITE CLEARANCE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL 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 AREA, INCLUDING GATE AND MONUMENT BOXES. REMOVE THE EXISTING HMA SURFACE TO A DEPTH OF 4.0 INCHES BY COLD MILLING. PERFORM ADDITIONAL COLD MILLING AND HAND PATCHING TO ADDRESS REPAIR LOCATIONS IN THE MILLED SURFACE AS DESIGNATED BY THE ENGINEER. PROOF ROLL AND PERFORM UNDERCUTS AND BASE REPAIRS INCLUDING HAND PATCHING, AND ANY JOINT AND CRACK CLEANOUT ALL AS DETERMINED BY THE ENGINEER. CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (4E1), AND PLACE TEMPORARY PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER. | <p>PHASE 2</p> <ol style="list-style-type: none"> REPEAT ITEMS 1 THRU 9 IN THE ORDER SHOWN. ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION AS REQUIRED. CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH TOP COURSE HMA MIX (5E1) AND TEMPORARY PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER. CLEAN PAVEMENT AND PLACE HMA APPROACHES AS REQUIRED. CLEAN PAVEMENT AND COMPLETE ALL PERMANENT PAVEMENT MARKINGS INCLUDING THE REMOVAL OF TEMPORARY PAVEMENT MARKINGS AS REQUIRED. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION. REMOVE ALL TRAFFIC CONTROL DEVICES AND MISS DIG FLAGS. OPEN STREET TO ALL TRAFFIC. |
|---|--|

QUANTITIES			
Sign, Type B, Temp, Prismatic			
Quantity	Sign Code	Description	Total Area
11.0	D3-1	Street Name Sign	44.000
1.0	M4-8A	End Detour Sign	3.000
1.0	M4-9L	Detour Sign (w/Left Arrow)	5.000
1.0	M4-9L(MOD)	Detour Sign (w/Left turn Arrow MOD)	5.000
1.0	M4-9R	Detour Sign (w/Right Arrow)	5.000
1.0	M4-9R(MOD)	Detour Sign (w/Right turn Arrow MOD)	5.000
1.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000
1.0	M4-10L	Detour Arrow (Left) Sign	6.000
1.0	R2-1	Speed Limit	5.000
1.0	R3-1	No Right Turn	4.000
2.0	R3-7R	Right Lane Must Turn Right	6.250
1.0	R5-18cLA	Work Zone Begins/ Traffic Fines Doubled	17.500
2.0	R6-1L	One Way (Left) Arrow	3.000
4.0	W20-1	Road Work Ahead Sign	9.000
1.0	W1-4R	Reverse Curve (Right)	6.250
1.0	W1-4L	Reverse Curve (Left)	6.250
1.0	W3-5	Speed Reduction Ahead	9.000
TOTAL			183.000

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.



ENGINEERING
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3-23-18
3-15-18
2-27-18

01 ADDENDUM #2
01 ADDENDUM #1
00 BID SET

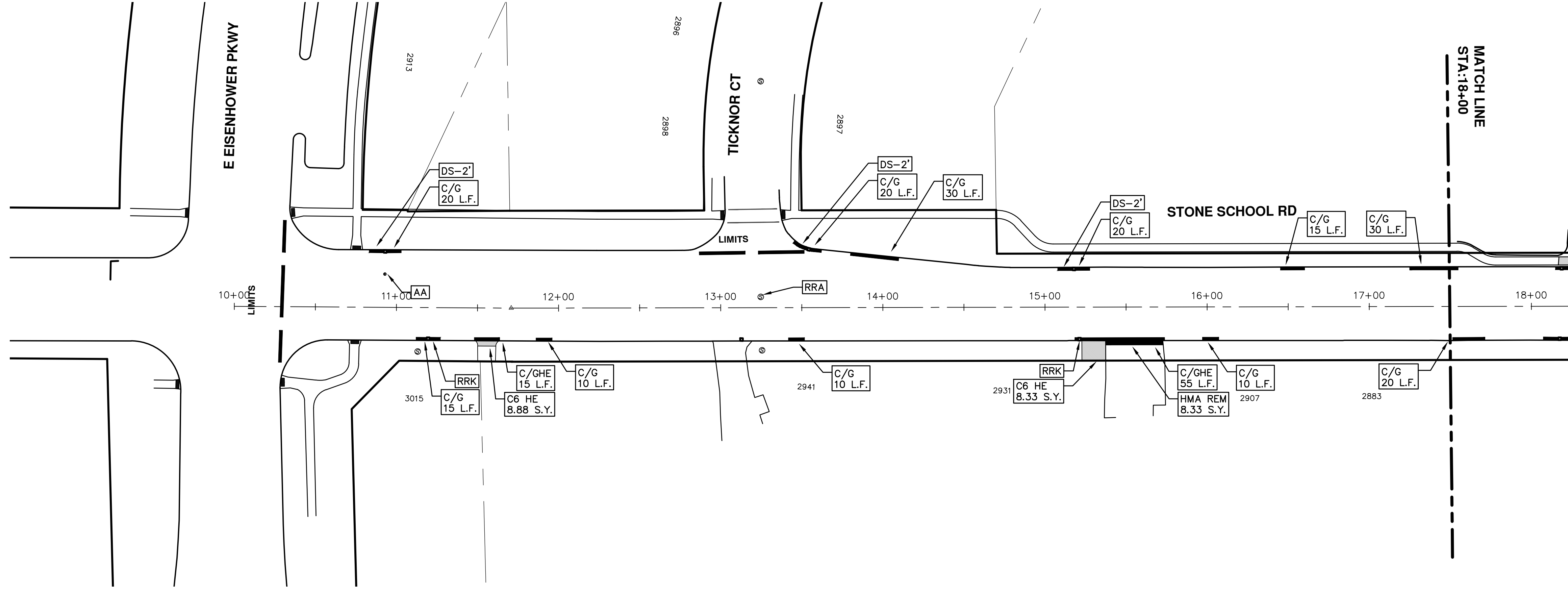
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
STONE SCHOOL RD

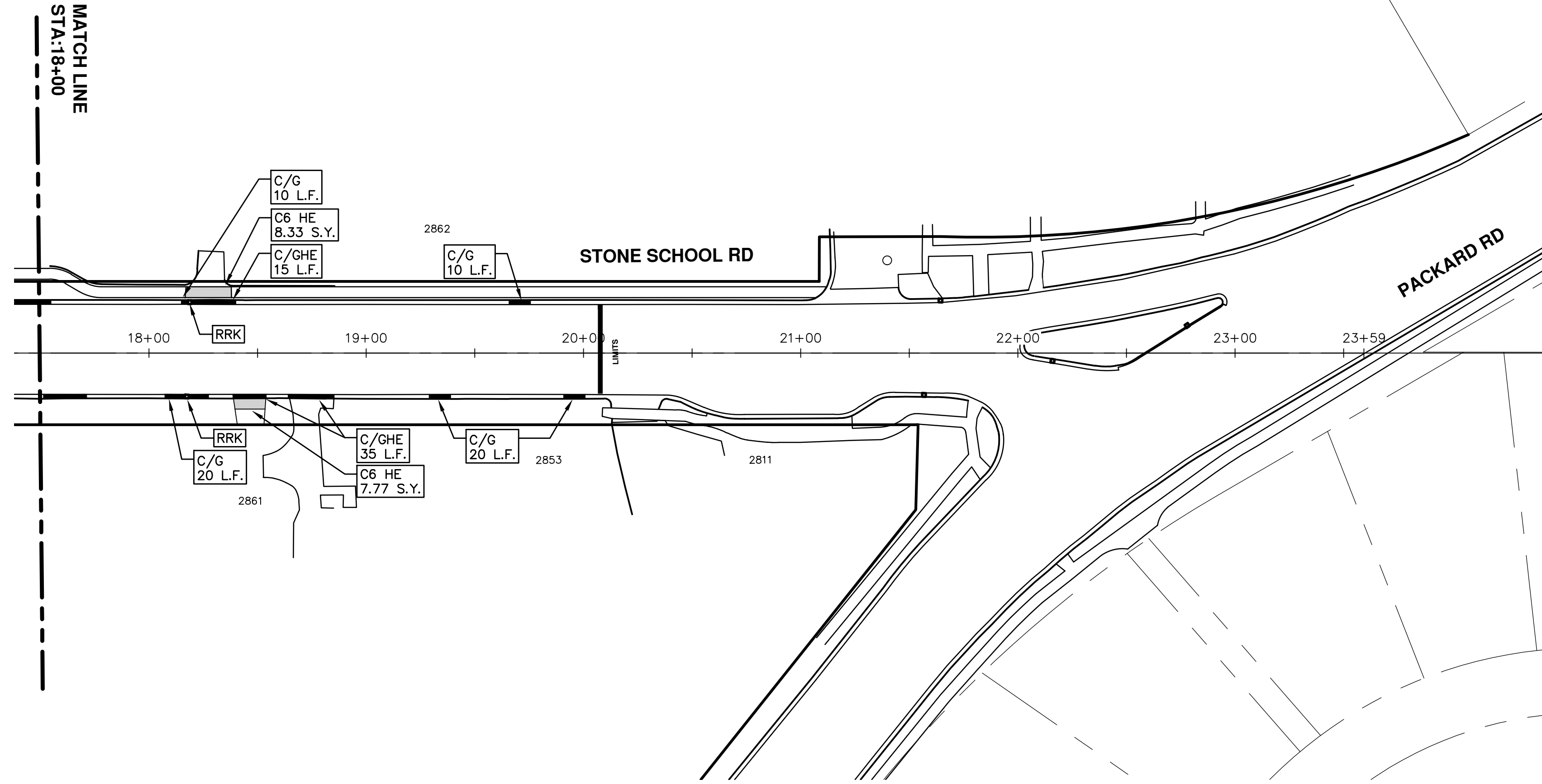
DRAWING No.
2018004-59

SHEET No.
59 OF 77



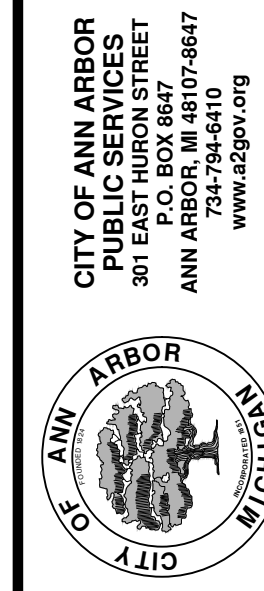
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01	ADDENDUM #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD





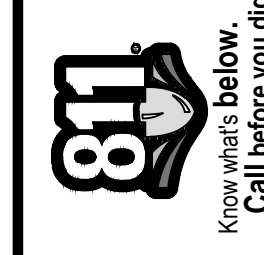
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
 STONE SCHOOL RD
 STA. 18+00 - STA. 23+59

SCALE PLAN: 1"=80'
 DRAWING No. 2018004-61



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 #2	3-23-18	GSCE	DAD
01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD



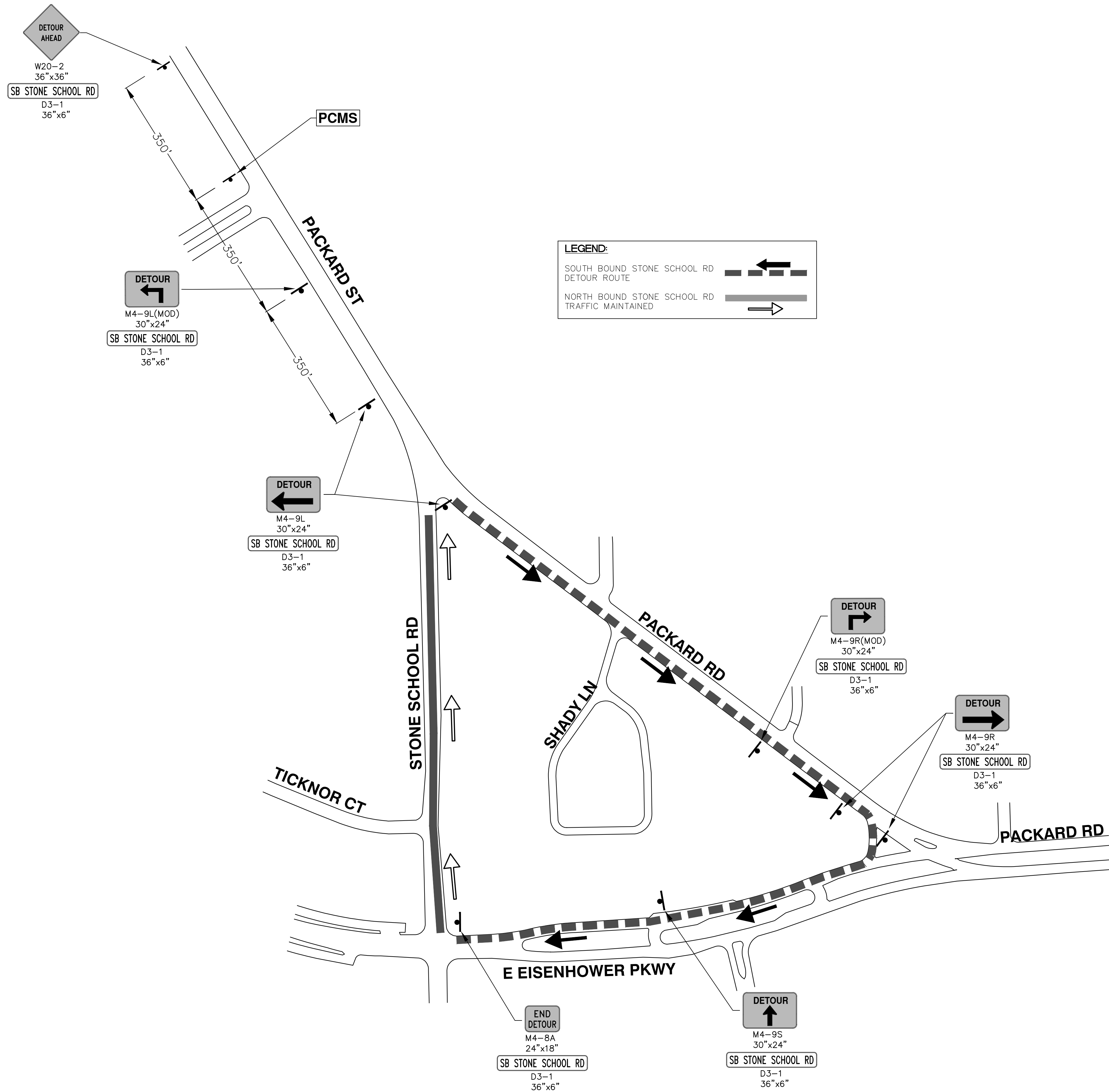
DETOUR CONSTRUCTION NOTES:

1. DEPENDING ON THE DETOUR ROUTE THAT IS PUT IN PLACE, CONFLICTING SIGNS MAY BE PRESENT. PRIOR TO THE ORDERING OR PLACEMENT OF ANY SIGNS, MEET WITH THE ENGINEER TO VERIFY THE EXACT NUMBER AND LOCATION OF THE SIGNS TO BE PLACED. THE ENGINEER AND THE CONTRACTOR SHALL WORK TOGETHER TO ELIMINATE ALL CONFLICTS.
2. THE CITY RESERVES THE RIGHT TO ORDER ADDITIONAL SIGNS AND PLACE THEM INTO SERVICE IN ORDER TO SAFELY MAINTAIN TRAFFIC. ADJUSTMENTS IN THE UNIT PRICE FOR THESE ITEMS OF WORK SHALL NOT BE ALLOWED FOR THESE OCCURRENCES.
3. THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS WITH THOSE OF THE CITY OF ANN ARBOR'S SIGNS AND SIGNALS UNIT DURING THE COURSE OF THE DETOUR ROUTE ESTABLISHMENT TO EFFECTIVELY AND SAFELY MAINTAIN TRAFFIC. DO NOT ERECT ANY SIGNS UNTIL ITS LOCATION AND PROPOSED DATE OF INSTALLATION IS APPROVED BY THE ENGINEER.
4. THE DETOUR IS TO BE IN PLACE DURING STONE SCHOOL ROAD SANITARY PROJECT. AS DIRECTED BY THE ENGINEER, THE CONTRACTOR WILL CLOSE AND DETOUR SOUTH BOUND STONE SCHOOL ROAD TRAFFIC. SEE "SPECIAL PROVISION FOR MAINTAINING TRAFFIC AND CONSTRUCTION SEQUENCING" FOR DETAILS ON CONSTRUCTION STAGING, SEQUENCING, CLOSURE AND DETOUR LIMITATIONS, AND OTHER DETAILS.
5. REFERENCE THE "SPECIAL PROVISION FOR MAINTAINING TRAFFIC AND CONSTRUCTION SEQUENCING" FOR ADDITIONAL PROJECT REQUIREMENTS. THE CONTRACTOR'S ATTENTION IS SPECIFICALLY DIRECTED TO THE SECTION OF SAME SPECIAL PROVISION REGARDING COORDINATION WITH THE CITY SIGNS AND SIGNALS UNIT FOR MODIFICATIONS TO TRAFFIC SIGNALS FOR THE DETOUR.
6. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN SIGNS AS SHOWN ON THE PLANS OR OTHERWISE DIRECTED BY THE ENGINEER.
7. CONSTRUCTION WARNING SIGNS SHALL HAVE AN ORANGE, HIGH-INTENSITY, REFLECTORIZED BACKGROUND.
8. SIGNS SHALL CONFORM TO THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
9. THE CONTRACTOR SHALL DRIVE ALL SIGNS INTO EXPOSED GROUND OR INSERT INTO A BORED HOLE IN PAVEMENT AS NECESSARY TO PERMANENTLY SECURE. ALL HOLES IN PAVEMENT SHALL BE FILLED WITH ENGINEER-APPROVED MORTAR WHEN THE SIGN IS REMOVED AND NO LONGER NEEDED. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "SIGN, TYPE B, TEMP, PRISMATIC, FURN" OR "SIGN, TYPE B, TEMP, PRISMATIC, FURN, SPECIAL".
10. ADVANCE WARNING SIGNS SHALL BE PROVIDED WITH TWO (2) TYPE A FLASHING LIGHTS AND ONE (1) DAY-GLOW ORANGE FLAG.
11. CITY TO BE NOTIFIED A MINIMUM OF 7 DAYS PRIOR TO IMPLEMENTING SB STONE SCHOOL ROAD DETOUR.

PCMS MESSAGE PHASING	
PRIOR TO CONSTRUCTION	DURING CONSTRUCTION
STONE SCHOOL ROAD CONSTRUCTION	SB STONE SCHOOL CLSD AT PACKARD
MONTH DATE *	FOLLOW POSTED DETOUR

NOTE: PCMS LOCATIONS AND MESSAGES WILL BE AS DIRECTED BY THE ENGINEER. TO BE PLACED ONE WEEK PRIOR TO CONSTRUCTION.

*THE CONTRACTOR SHALL PLACE THE APPROPRIATE DATE AS APPROVED BY THE ENGINEER.



T:\2018004\2017033Mtrf.dwg Dwg Created: 14-Feb-18 - a2 standard bw.stb - Plot Date: 23-Mar-18

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

REV	DATE	DRAWN	CHECKED
01	3-23-18	GSCE	DAD
01	3-15-18	GSCE	DAD
00	2-27-18	GSCE	DAD

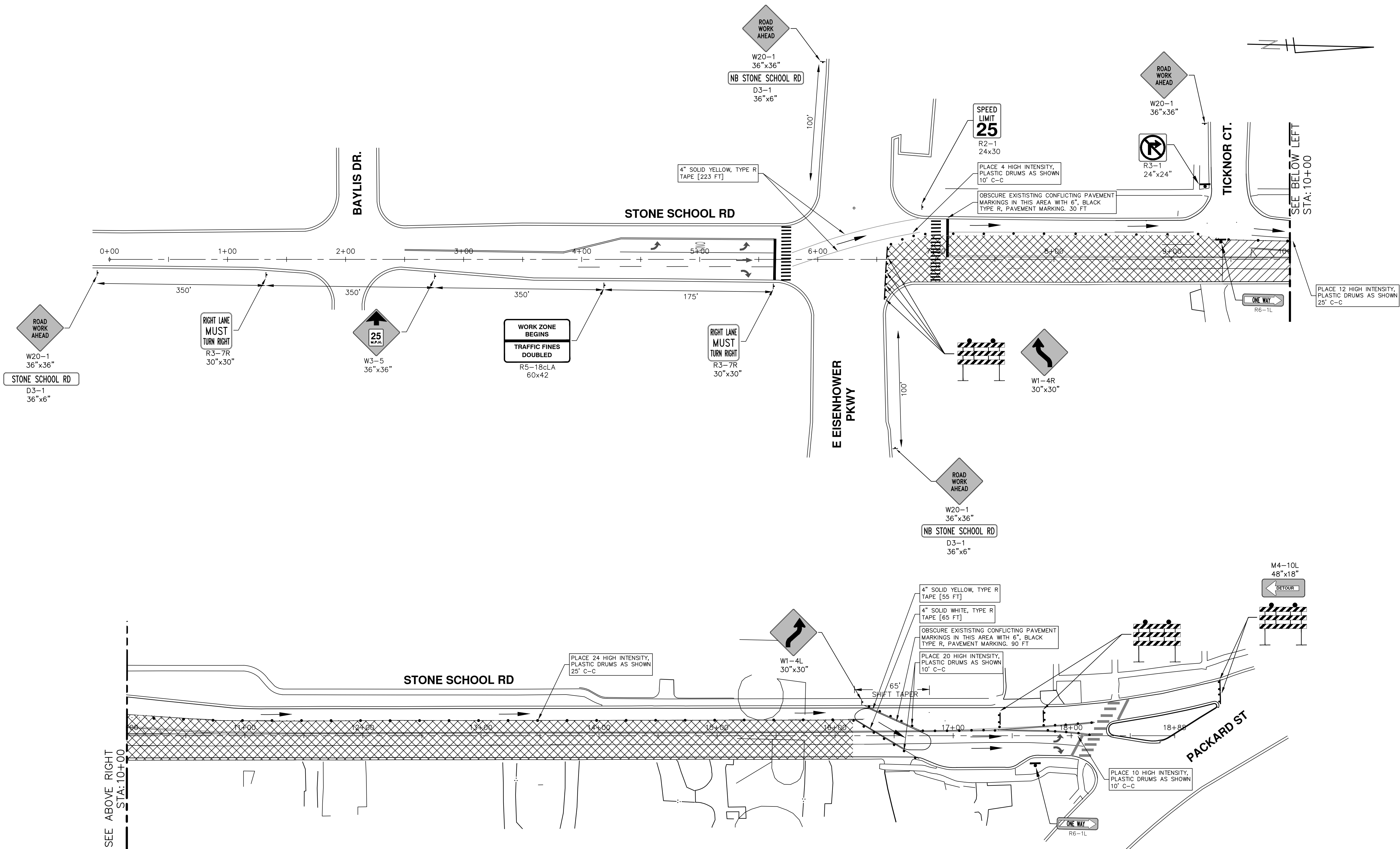
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2018
STONE SCHOOL RD
DETOUR PLAN

SHEET No. **62 OF 79**

SCALE: 1" = 150'

DRAWING No. **2018004-62**

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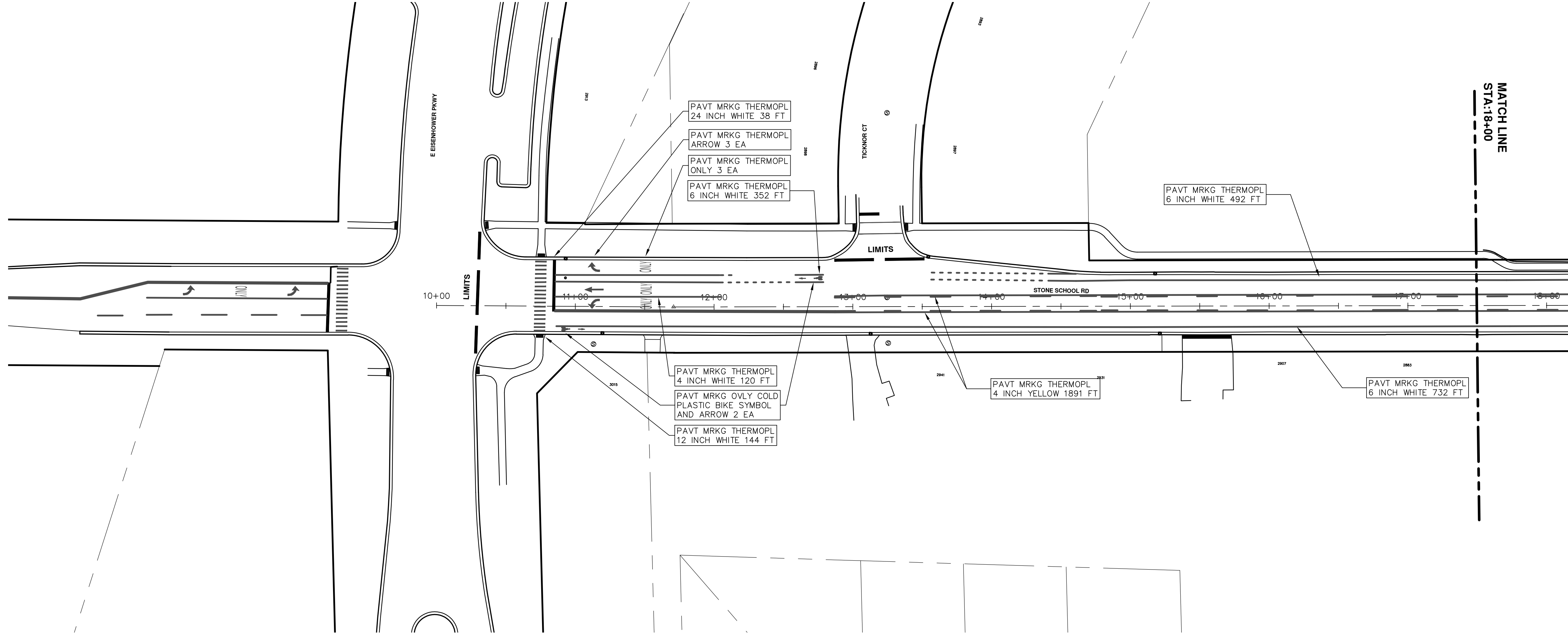
811
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2018
 STONE SCHOOL RD
 TRAFFIC CONTROL

CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-0647
 ANN ARBOR: 734-794-4410
 www.a2gov.org

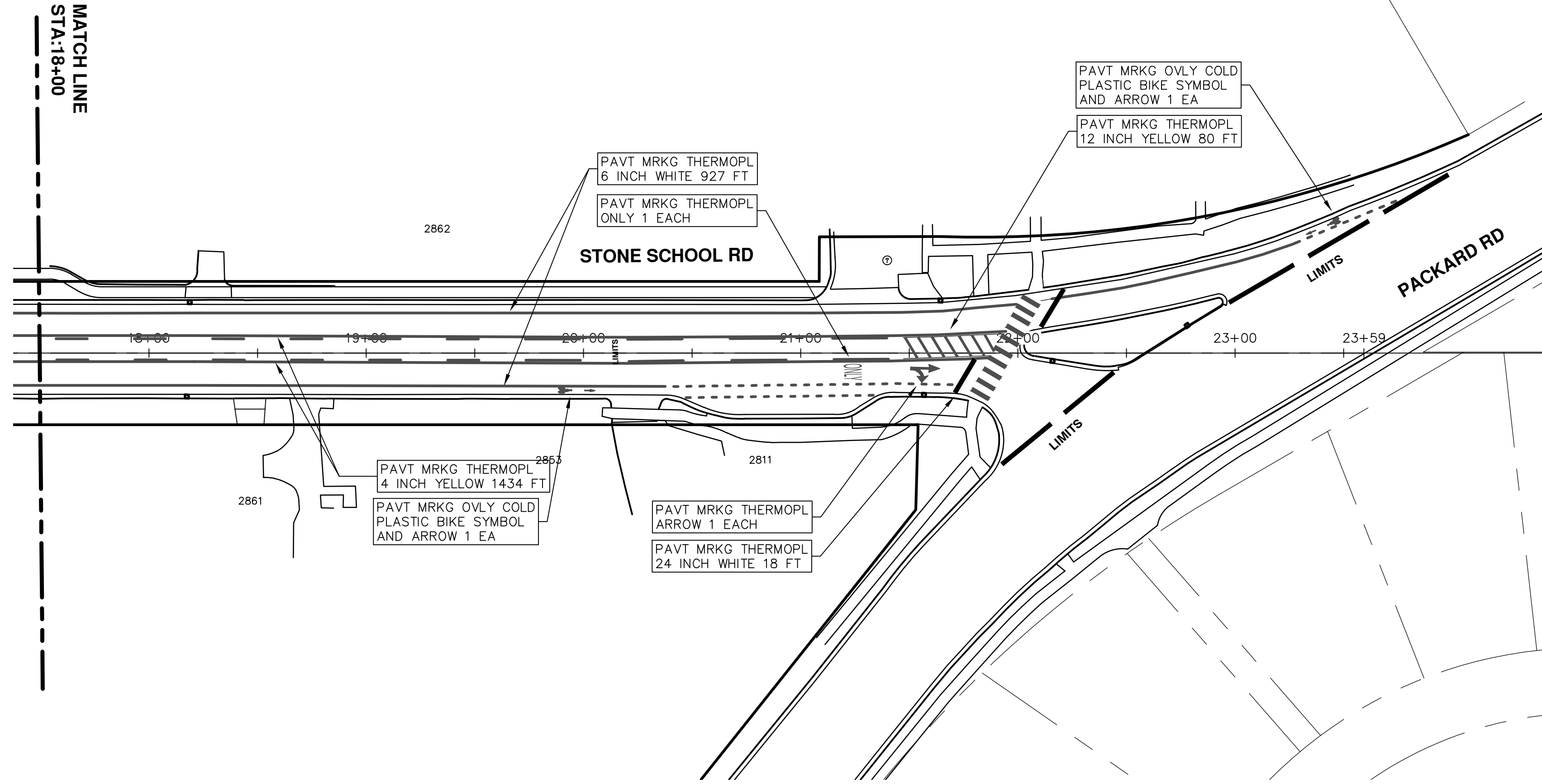
CITY OF ANN ARBOR
 SCALE PLAN: 1" = 40'
 DRAWING No. 2018004-63
 SHEET No. 63 OF 77



CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-6647
 www.a2gov.org

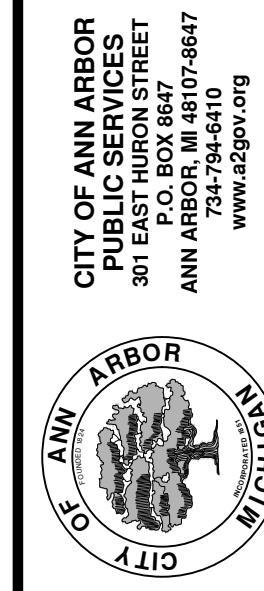
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01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD





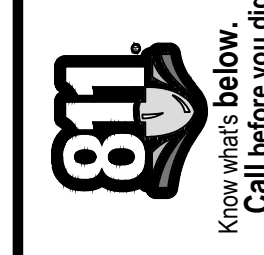
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
 STONE SCHOOL RD
 STA. 18+00 - STA. 23+59 PIMARK

SCALE PLAN: 1"=40'
 DRAWING No. 2018004-65



CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-8647
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD





CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: SOUTH STATE STREET

ITB No. 4529 FILE No. 2018004

QUANTITIES			
Item Code	Item Description	Units	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	286.000
2047011	_Conc Pavt, Any Thickness, Rem	Syd	250.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	28.000
2057011	_Grading, Driveway Approach	Syd	14.000
2057011	_Grading, Sidewalk	Syd	7.000
2057011	_Grading, Sidewalk Ramp	Syd	7.000
2057011	_Machine Grading, Special	Syd	250.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	6.000
3020050	Aggregate Base, Conditioning	Syd	250.000
3027011	_Aggregate Base, 8 inch, 21AA	Syd	250.000
3087011	_Geosynthetic Paving Layer	Syd	1,760.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	2.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	1.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	6.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	7.000
5010003	Cold Milling HMA Surface	Syd	1,760.000
5010005	HMA Surface, Rem	Syd	32.000
5010020	Pvmt Joint and Crack Repr, Detail 7	Ft	125.000
5010021	Pvmt Joint and Crack Repr, Detail 8	Ft	125.000
5010051	HMA, 4E1, High Stress	Ton	195.000
5010057	HMA, 5E1, High Stress	Ton	195.000
5017031	_HMA, Wedging, 36A	Ton	3.000
6027021	_Flowable Fill	Cyd	6.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	14.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	198.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	88.000
8037001	_Detectable Warning Surface, Modified	Ft	10.000
8037010	_Sidewalk Ramp, Conc, 8 inch, Modified	Sft	60.000
8037010	_Sidewalk, Conc, 8 inch, Modified	Sft	60.000
8110049	Pav Mrkg, Ovl Cold Plastic, Direction Arrow Sym, Bike	Ea	2.000
8110058	Pav Mrkg, Ovl Cold Plastic, Bike, Small Sym	Ea	2.000
8110195	Pav Mrkg, Thermopl, 4 inch, White	Ft	100.000
8110198	Pav Mrkg, Thermopl, 6 inch, White	Ft	658.000
8110196	Pav Mrkg, Thermopl, 4 inch, Yellow	Ft	630.000
8110214	Pav Mrkg, Thermopl, 12 inch, Crosswalk	Ft	152.000
8110218	Pav Mrkg, Thermopl, 24 inch, Stop Bar	Ft	55.000
8117050	_Pav Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	2.000
8117050	_Pav Mrkg, Thermopl, Only	Ea	1.000
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
8120140	Lighted Arrow, Type C, Furn	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120235	Pav Mrkg, Wet Retrefec, Type R, Tape, 4 inch, Yellow, Temp	Ft	128.000
8120260	Plastic Drum, High Intensity, Furn	Ea	20.000
8120261	Plastic Drum, High Intensity, Oper	Ea	20.000
8120265	Pav Mrkg, Wet Retrefec, Type R, Tape, 24 inch, Stop Bar	Ea	12.000
8120310	Sign Cover	Ea	10.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	384.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	384.000
8127050	_No Parking Sign	Ea	12.000
8167011	_Slope Restoration	Syd	15.000
8230431	Gate Box, Adj, Case 1	Ea	2.000
8257050	_Remove Parking Meters	Ea	5.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • _Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Grading, Sidewalk Ramp • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• _Dr Structure, Rem • _Sewer, Rem, Less than 24 inch • _Dr Structure, 24 inch dia
DSDI	• _Dr Structure, Rem • _Sewer, Rem, Less than 24 inch • _Dr Structure, Double Inlet
PT	• _Dr Structure, Point
RRA	• _Dr Structure Cover, Type B • _Dr Structure Cover, Type B, Special • _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Temp Lowering, Modified
RRK	• _Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• _Dr Structure, Reconstruct
TYPE II	• _Plastic Drum, High Intensity, Lighted, Furn • _Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• _Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • _Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

CONSTRUCTION SCOPE AND SEQUENCING

CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AS DIRECTED BY THE ENGINEER, AND UTILIZING PART WIDTH TWO (2) PHASE CONSTRUCTION. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER. COMPLETE ITEMS 13 THRU 18 UTILIZING BOTH THE PHASE 1 AND PHASE 2 M.O.T. PLANS, SUPPLEMENTAL LANE CLOSURES, AND FLAG CONTROL OPERATIONS AS DIRECTED BY THE ENGINEER.

PHASE 1

- CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK.
- CONTACT REPUBLIC PARKING TO ARRANGE FOR PLACEMENT OF METER BAGS ON EXISTING PARKING METER HEADS, AND THE PERMANENT REMOVAL OF THE HEADS.
- UPON RECEIVING MISS DIG SITE CLEARANCE INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL 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 AREA, INCLUDING GATE AND MONUMENT BOXES.
- REMOVE THE EXISTING HMA SURFACE (APPROXIMATELY 4.0 INCHES) TO REVEAL THE EXISTING CONCRETE BASE PAVEMENT BY COLD MILLING. PERFORM ADDITIONAL CONCRETE COLD MILLING AS DIRECTED BY THE ENGINEER.
- PROOF ROLL AND PERFORM UNDERCUTS AND BASE REPAIRS INCLUDING HAND PATCHING, AND ANY JOINT AND CRACK REPAIRS (DETAIL 7 AND/OR 8) ALL AS DETERMINED BY THE ENGINEER.

- CLEAN AND PREPARE PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE GEOSYNTHETIC PAVING LAYER.
- WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH LEVELING COURSE HMA MIX (4E1, HIGH STRESS).
- REPEAT ITEMS 1 THRU 11 IN THE ORDER SHOWN.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION AS REQUIRED.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH TOP COURSE HMA MIX (5E1, HIGH STRESS) AND TEMPORARY PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER.
- CLEAN PAVEMENT AND PLACE HMA APPROACHES AND DRIVEWAY WEDGING AS REQUIRED.
- CLEAN PAVEMENT AND COMPLETE ALL PERMANENT PAVEMENT MARKINGS INCLUDING THE REMOVAL OF TEMPORARY PAVEMENT MARKINGS AS REQUIRED.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES AND MISS DIG FLAGS.
- OPEN STREET TO ALL TRAFFIC.

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.

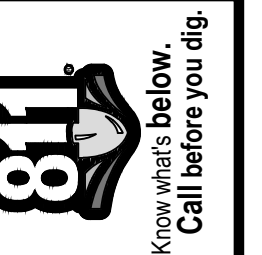
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
24.0	D3-1	Street Name Sign	4.000	96.000
1.0	M4-10R	Detour Arrow (Right) Sign	6.000	6.000
1.0	M4-8a	End Detour Sign	3.000	3.000
3.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	15.000
4.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	20.000
6.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	30.000
1.0	R11-2	Road Closed Sign ("Road Closed")	12.500	13.000
1.0	R3-1	Movement Prohibition Sign ("No Right Turn")	4.000	4.000
1.0	R3-7R	Right Lane Must Turn Right	6.250	7.000
2.0	R10-6L	Stop Here on Red	6.000	12.000
1.0	W1-6	Shift Left Arrow	8.000	8.000
4.0	SP-1	Special Sign	20.000	80.000
5.0	W20-1	Road Work Ahead Sign	9.000	45.000
3.0	W20-2	Detour Ahead	9.000	27.000
2.0	W20-3	Road Closed Ahead	9.000	18.000
TOTAL				384.000

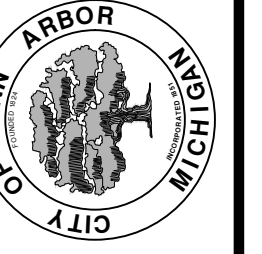


ENGINEERING
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD

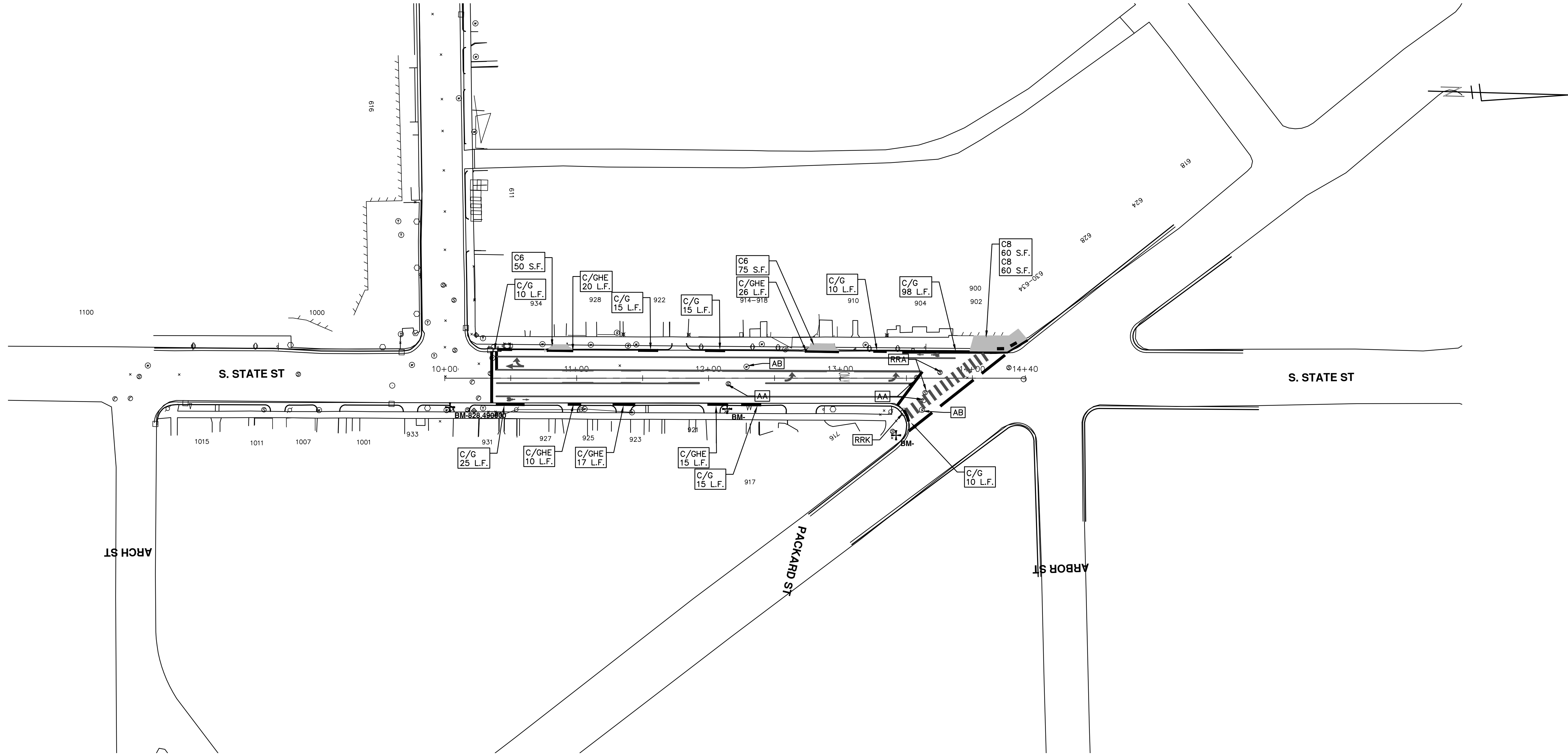
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
www.a2gov.org




ENGINEERING - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
SOUTH STATE STREET

SCALE
DRAWING No.
2018004-66

T:\2018004\Plan Production\State St\2018004-State St.dwg Dwg Created: 4-Jan-18 - _a2 standard bw.stb - Plot Date: 23-Mar-18





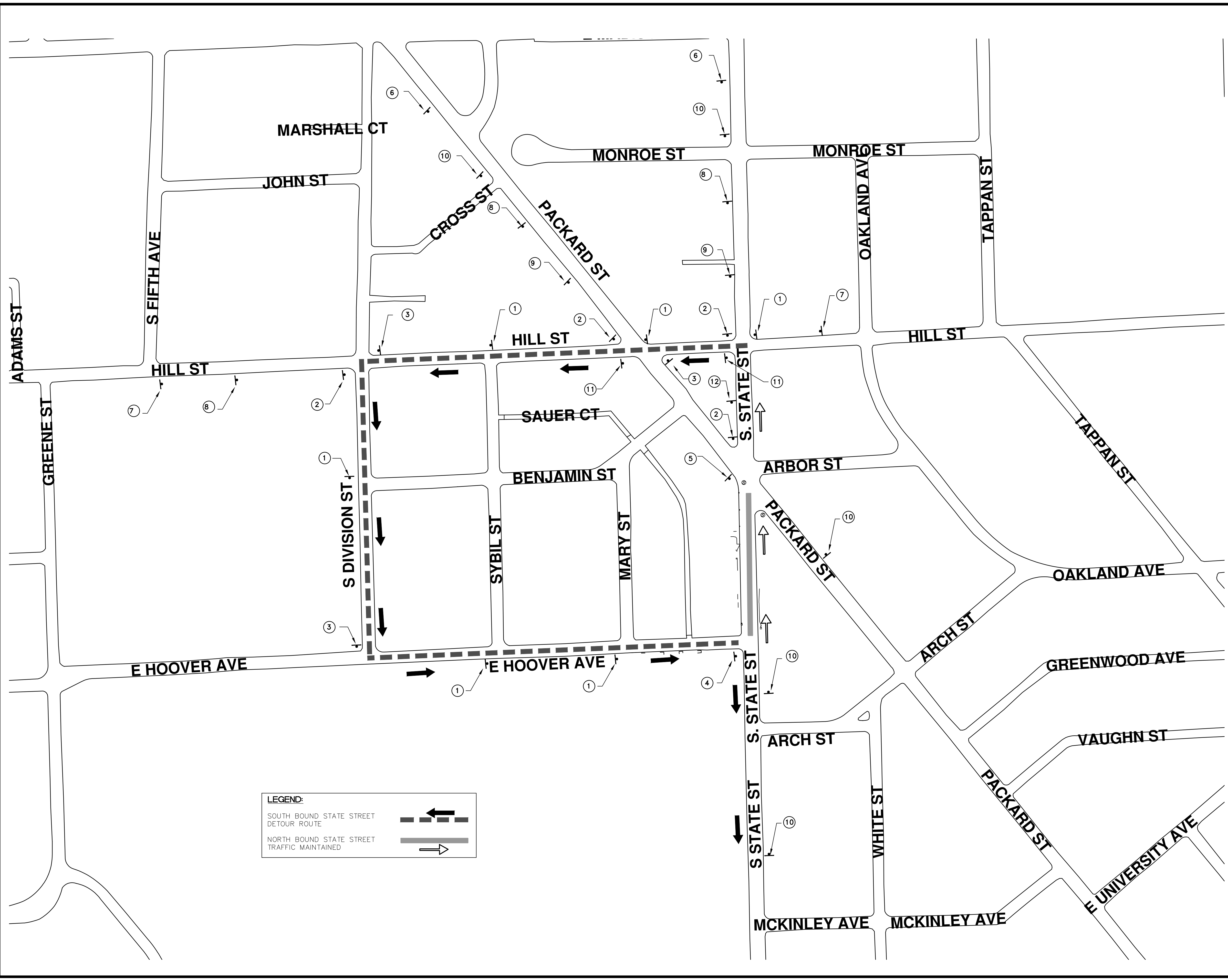
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PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-0667
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811
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
STATE ST
STA. 10+00 - STA. 14+40

SCALE PLAN: 1"=40'
DRAWING No. 2018004-67
SHEET No. 67 OF 77



TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
1		D3-1 48"x12" M4-9S 30x24
2		D3-1 48"x12" M4-9R 30x24
3		D3-1 48"x12" M4-9L 30x24
4		D3-1 48"x12" M4-8a 24x18
5		R3-1 24"x24"
6		SPECIAL 48x60
7		SPECIAL 48x60
8		W20-2 36"x36"
9		D3-1 48"x12"
		W20-3 36"x36"
10		D3-1 48"x12"
		W20-1 36"x36"
11		R10-6L 24"x36"
12		R3-7R 30"x30"

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018

SCALE: STATE ST

DRAWING No. 2018004-68

SHEET No. 68 OF 77

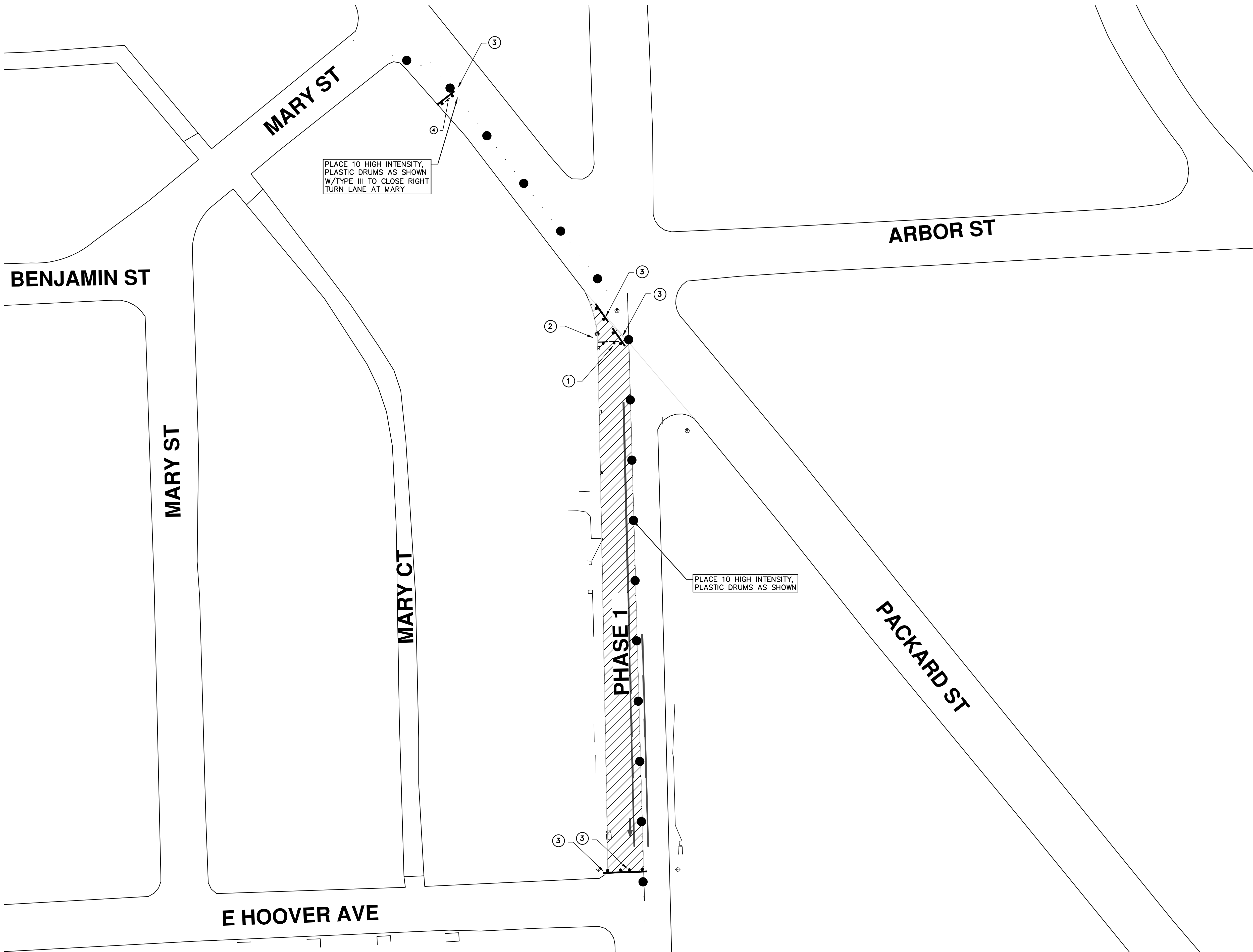
811
 Know what's below.
 Call Before you dig.

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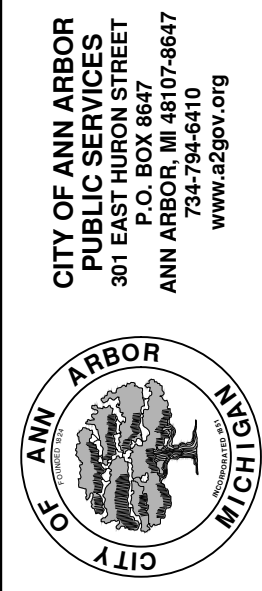
DESCRIPTION

CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-8647
 ANN ARBOR, MI 48106-8647
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T:\2018004\Plan Production\State St\2018004-State St.dwg Dwg Created: 4-Jan-18 - _a2 standard bw.stb - Plot Date: 23-Mar-18

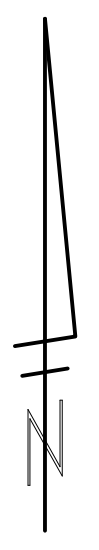
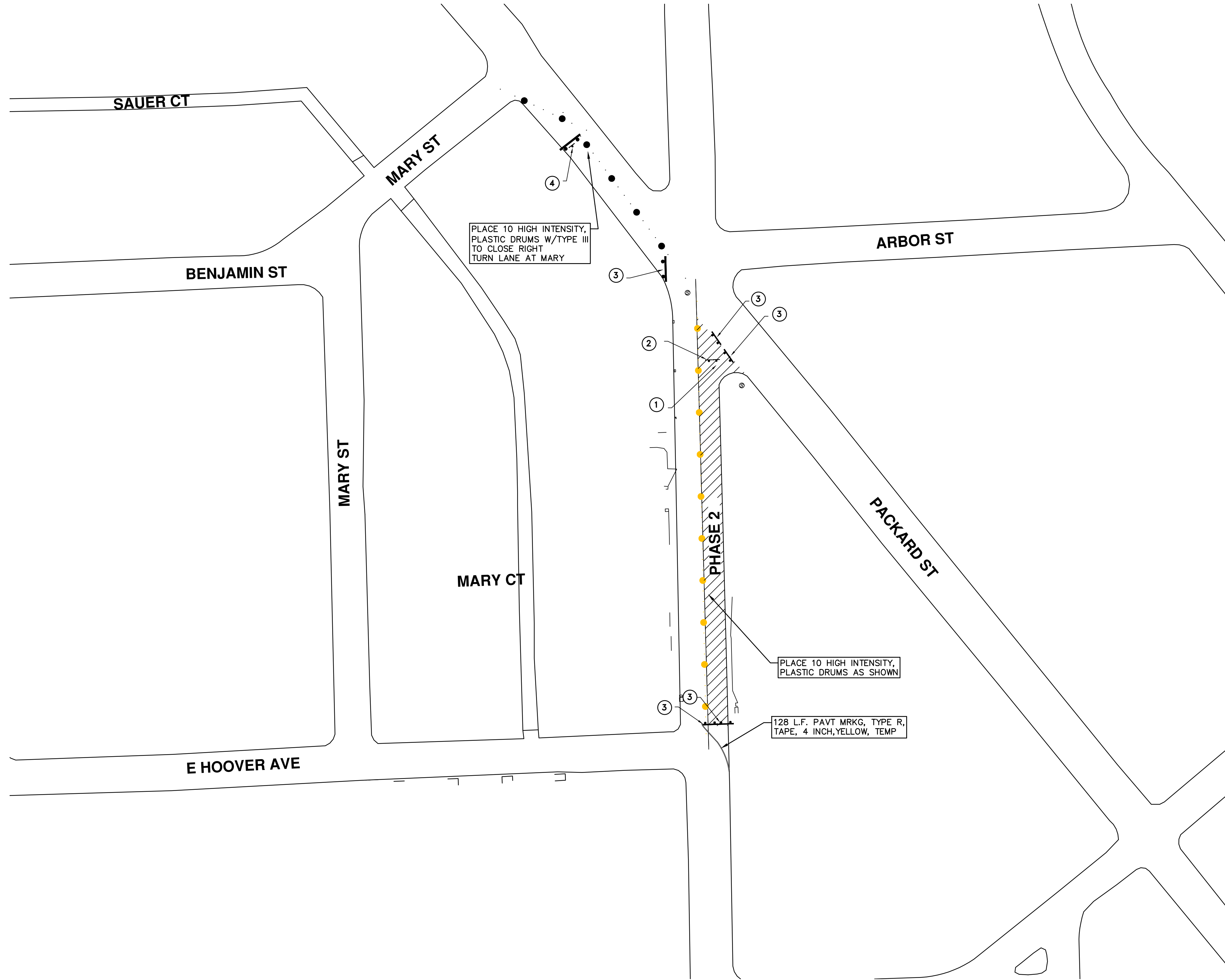


TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①		R11-2 60x30
②		M4-10R 48"x18"
③		TYPE-III BARRICADE
④		W1-6 48"x24"



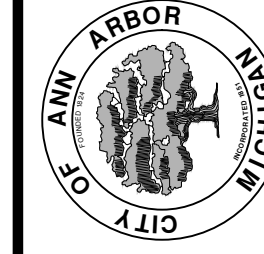
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01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD





TRAFFIC CONTROL SIGN		
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①		R11-2 60x30
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STREET RESURFACING PROJECT - 2018
 S. STATE STREET
 PHASE 2

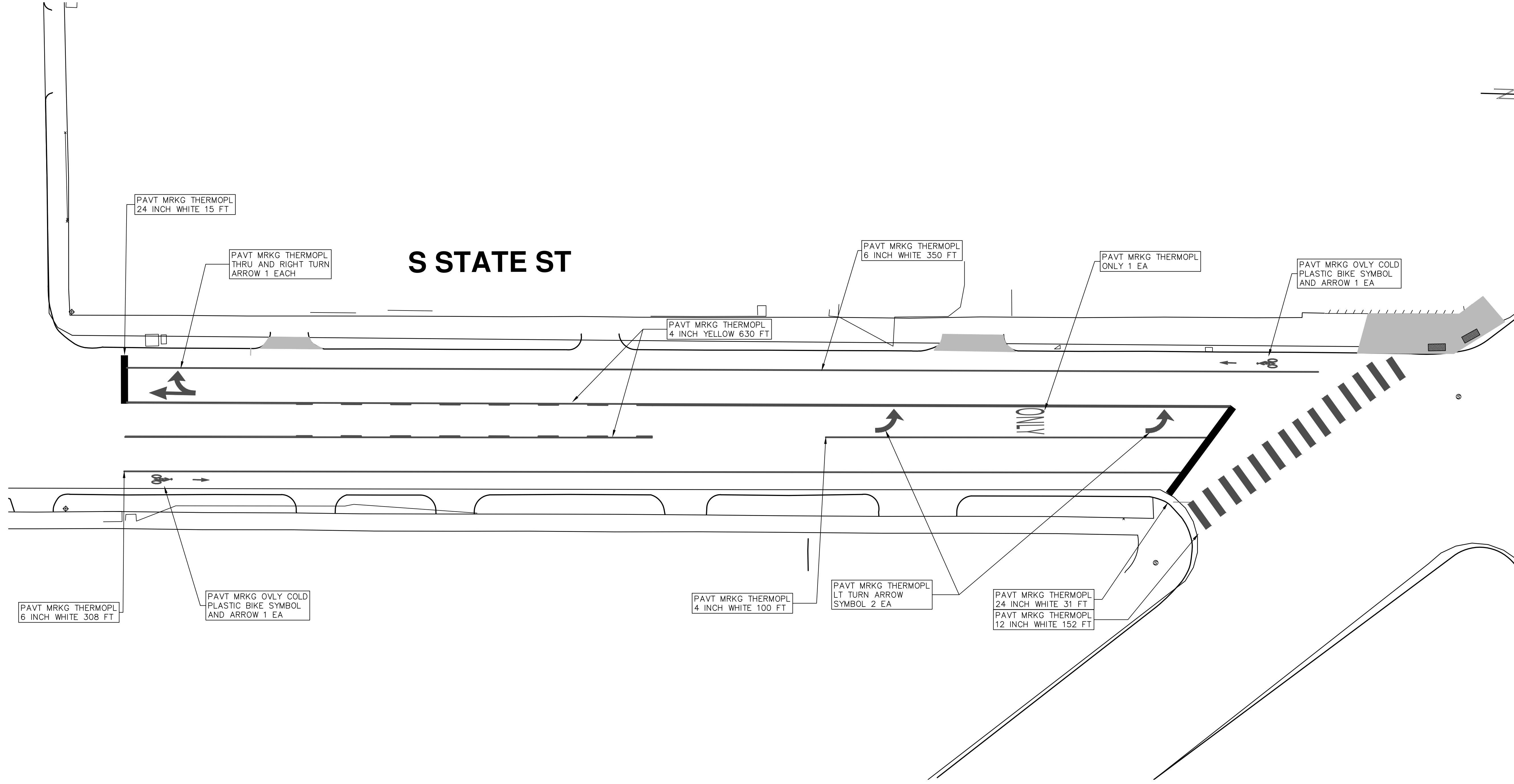


CITY OF ANN ARBOR
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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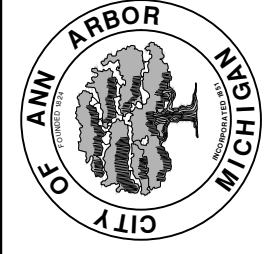


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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
STATE ST
STA. 10+00 - STA. 14+40 PAVT MARKG

SCALE PLAN: Custom
DRAWING No. 2018004-71



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: ANN ARBOR - SALINE ROAD SHARED USE PATH

ITB No. 4529 FILE No. 2018004

QUANTITIES			
Item Code	Item Description	Units	Quantity
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	325.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	205.000
2057011	Grading, Sidewalk	Syd	1780.000
2057011	Grading, Sidewalk Ramp	Syd	85.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	35.000
2080036	Erosion Control, Silt Fence	Ft	1,850.000
3020001	Aggregate Base	Ton	365.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	8.000
4037050	Dr Structure, Adj, Case 2, Modified	Ea	4.000
5010005	HMA Surface, Rem	Syd	1,650.000
8027001	Curb and Gutter, Conc, Barrier	Ft	325.000
8037001	Detectable Warning Surface, Modified	Ft	80.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	752.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	1,232.000
8060040	Shared use Path, HMA	Ton	918.000
8067031	Shared use Path, HMA, Wedging	Ton	75.000
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
8120030	Channelizing Device, 42 inch, Furn	Ea	80.000
8120031	Channelizing Device, 42 inch, Oper	Ea	80.000
8120140	Lighted Arrow, Type C, Furn	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120310	Sign Cover	Ea	10.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	120.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	120.000
8167011	Slope Restoration	Syd	4,400.000
8190244	Hh, Adj	Ea	8.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
AHH	• Hh, Adj
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Grading, Sidewalk Ramp • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• Grading, Driveway Approach • Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc, 6 inch, Modified • Driveway, Nonreinf Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet
PT	• Dr Structure, Point
RRA	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

CONSTRUCTION SCOPE AND SEQUENCING

CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AS DIRECTED BY THE ENGINEER, AND UTILIZING A TWO (2) PHASE APPROACH TO CONSTRUCT THE PATH ON ONE SIDE OF THE ROADWAY AND THEN SUBSEQUENTLY ON THE OTHER SIDE. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER. COMPLETE WORK ITEMS FOR BOTH PHASES AS SHOWN BELOW UTILIZING RIGHT (CURB) LANE CLOSURES, AND FLAG CONTROL OPERATIONS AS DIRECTED BY THE ENGINEER.

PHASES 1 & 2

- CONTACT THE MISS DIG SYSTEM THREE (3) FULL WORKING DAYS PRIOR TO BEGINNING ANY WORK.
- UPON RECEIVING MISS DIG SITE CLEARANCE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT/HMA SURFACE, DRAINAGE (AS REQUIRED), AND CONCRETE ITEMS.
- PLACE, GRADE, SHAPE, AND COMPACT BASE MATERIAL AS REQUIRED.
- PERFORM ALL CONCRETE WORK AS REQUIRED.
- PERFORM UNDERCUTS AND BASE REPAIRS AND HMA SURFACE REPAIRS INCLUDING HAND PATCHING, AND ANY JOINT AND CRACK CLEANOUT ALL AS DETERMINED BY THE ENGINEER.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE HMA WEDGING MIX (LVSP) AS DIRECTED BY THE ENGINEER.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION AS REQUIRED.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.25 INCH TOP COURSE HMA MIX (LVSP).
- PLACE, GRADE, SHAPE, AND COMPACT EMBANKMENT MATERIAL AS REQUIRED..
- COMPLETE ALL SLOPE RESTORATION.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP.
- REMOVE ALL TRAFFIC CONTROL DEVICES AND MISS DIG FLAGS.
- OPEN PATH TO TRAFFIC.

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				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sqft)	Total Area
1.0	D3-1	Street Name Sign	4.000	4.000
2.0	R2-1	Speed Limit	7.500	15.000
2.0	W3-5B	Reduce Speed Zone	16.000	32.000
1.0	G20-2	End Road Work	4.500	5.000
2.0	W20-1	Road Work Ahead Sign	16.000	32.000
1.0	W20-5	Right Lane Closed Ahead	16.000	16.000
1.0	W4-2R	Lane Ends	16.000	16.000



ENGINEERING
CITY OF ANN ARBOR PUBLIC SERVICES
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ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org



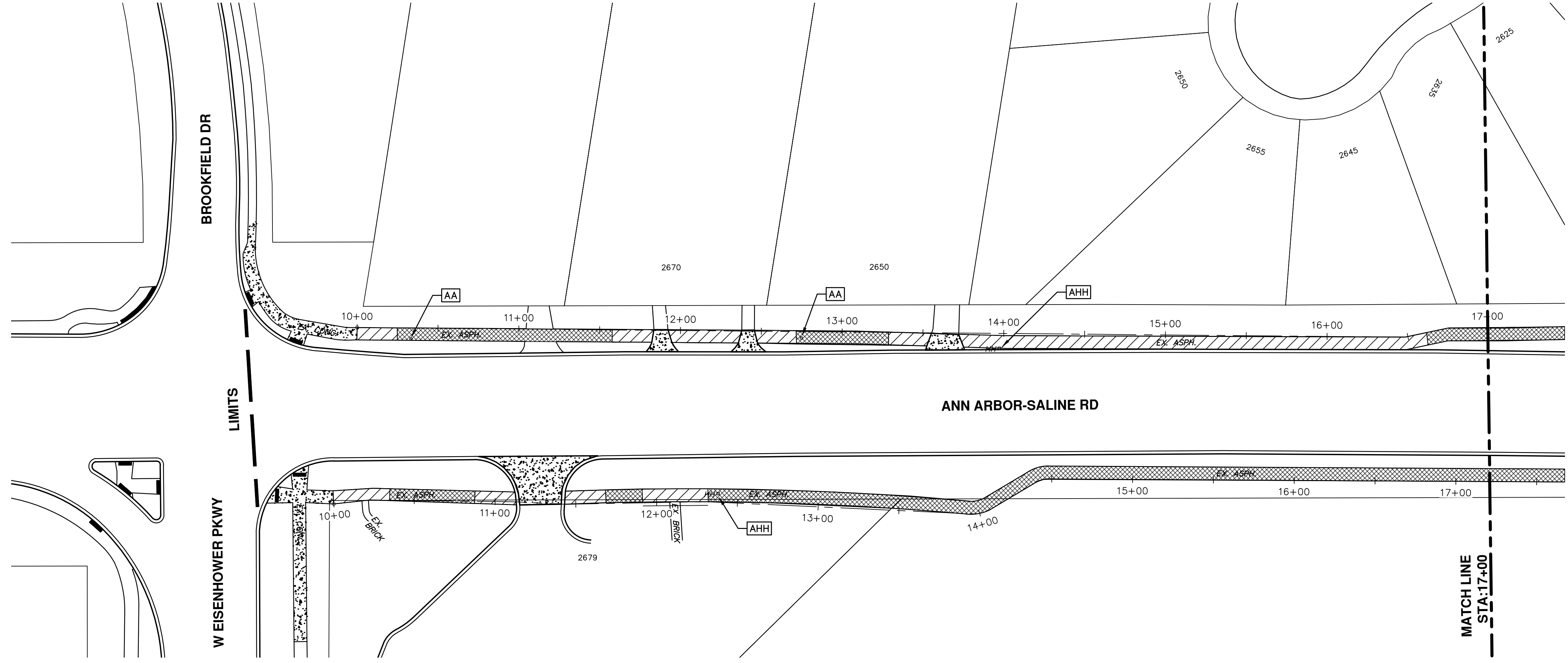
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00	2-27-18	BID SET
		CHECKED
		DRAWN
		GSCE
		DAD

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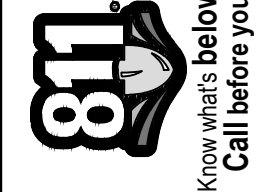
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING PROJECT - 2018
ANN ARBOR-SALINE ROAD SHARED USE PATH

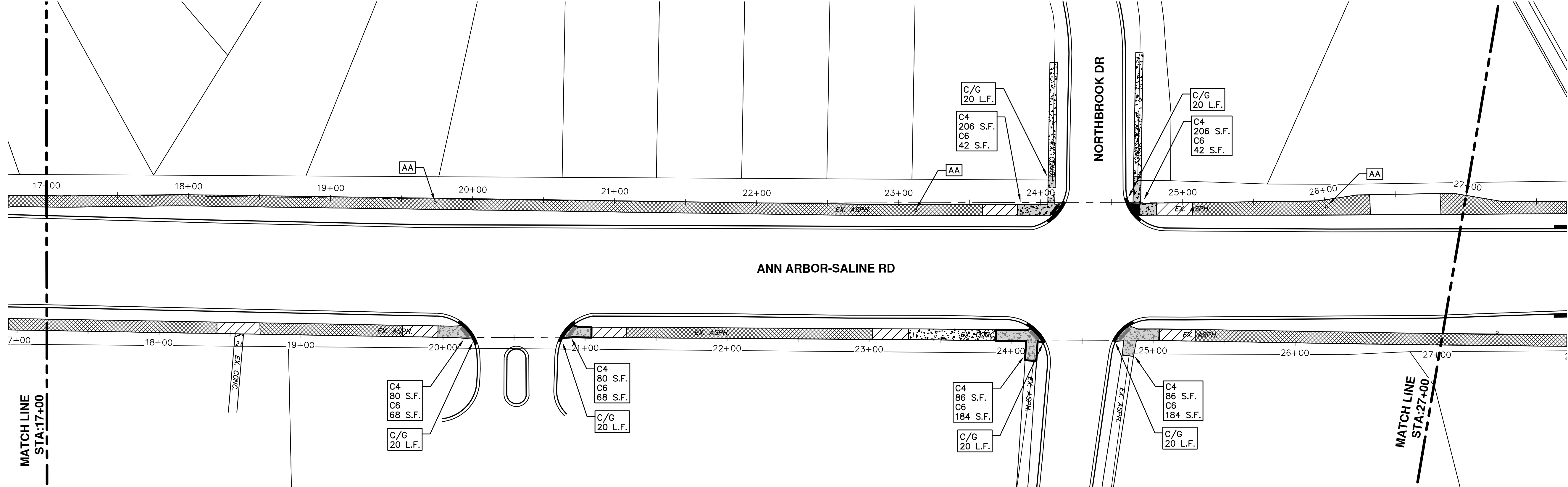
DRAWING No.
2018004-72



	OVERLAY EXISTING HMA PATH
	EXISTING CONCRETE
	REMOVE & REPLACE EXISTING HMA PATH

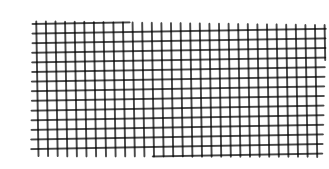
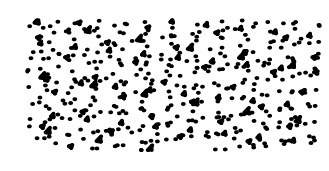
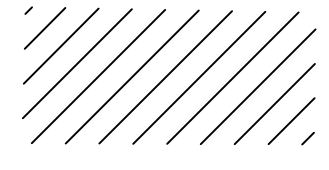
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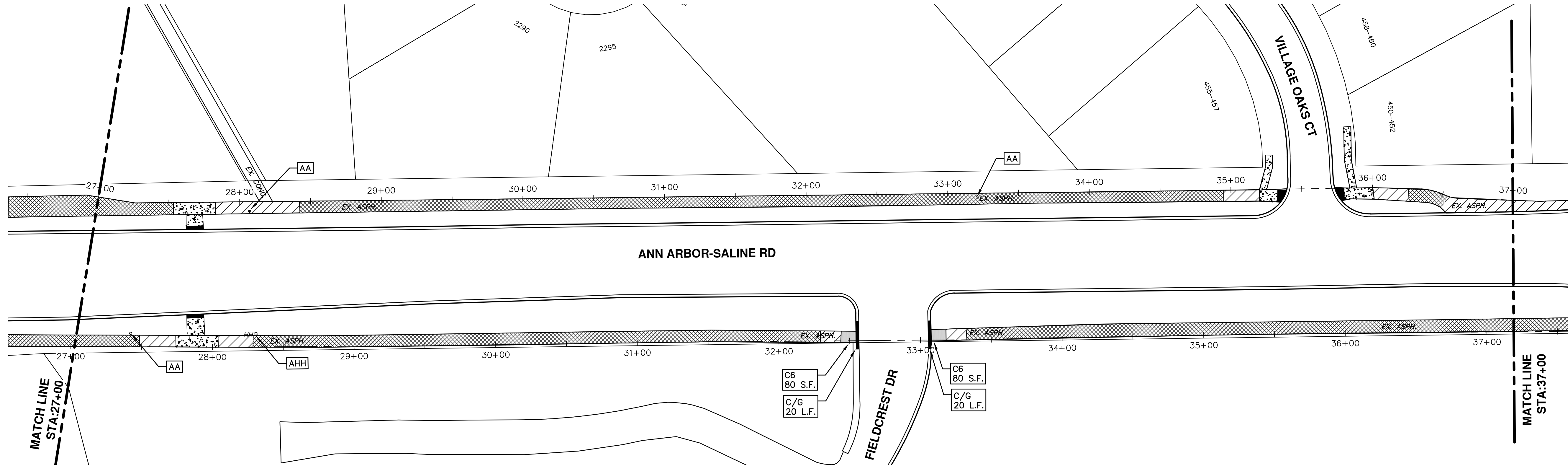
ANN ARBOR-SALINE RD

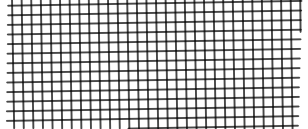
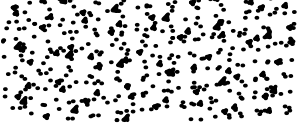

NORTHBROOK DR

	OVERLAY EXISTING HMA PATH
	EXISTING CONCRETE
	REMOVE & REPLACE EXISTING HMA PATH

 <p>Know what's below. Call Before you dig.</p>	
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR STREET RESURFACING PROJECT - 2018 ANN ARBOR - SALINE RD BIKEPATH STA. 17+00 - STA. 27+00	CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 ANN ARBOR MI 48106-8647 www.a2gov.org
SCALE PLAN: 1"=80' DRAWING No. 2018004-74	REV. DESCRIPTION 01 ADDENDUM #2 3-23-18 GSCE DAD 01 ADDENDUM #1 3-15-18 GSCE DAD 00 BID SET 2-27-18 GSCE DAD DRAWN CHECKED
SHEET No. 74 OF 77	

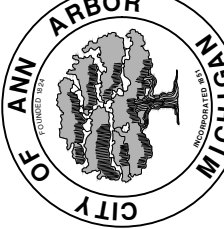
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	OVERLAY EXISTING HMA PATH
	EXISTING CONCRETE
	REMOVE & REPLACE EXISTING HMA PATH

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=80'
 DRAWING No. 2018004-75

STREET RESURFACING PROJECT - 2018
 ANN ARBOR - SALINE RD BIKEPATH
 STA. 27+00 - STA. 37+00

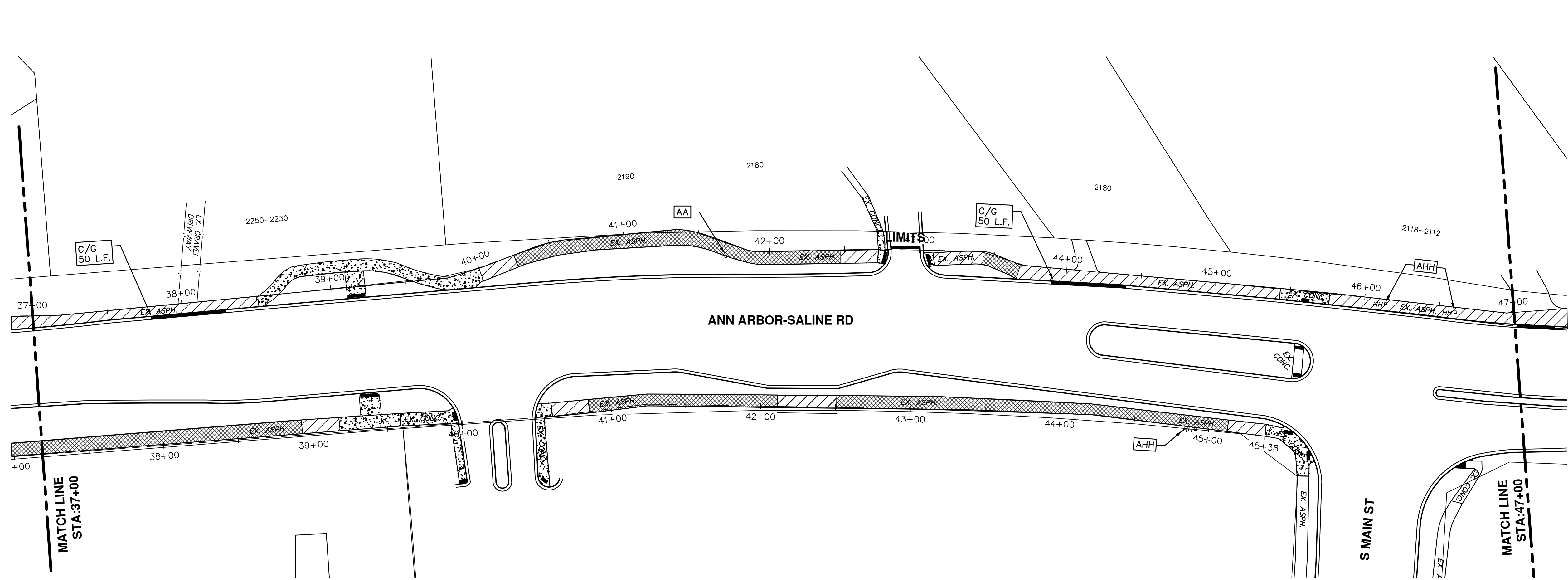


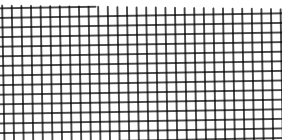
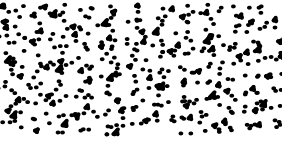
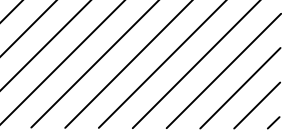
CITY OF ANN ARBOR
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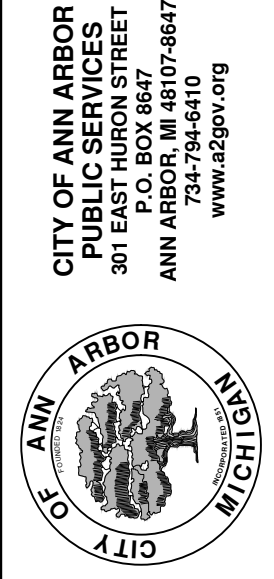
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	OVERLAY EXISTING HMA PATH
	EXISTING CONCRETE
	REMOVE & REPLACE EXISTING HMA PATH

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=80'
 DRAWING No. 2018004-76

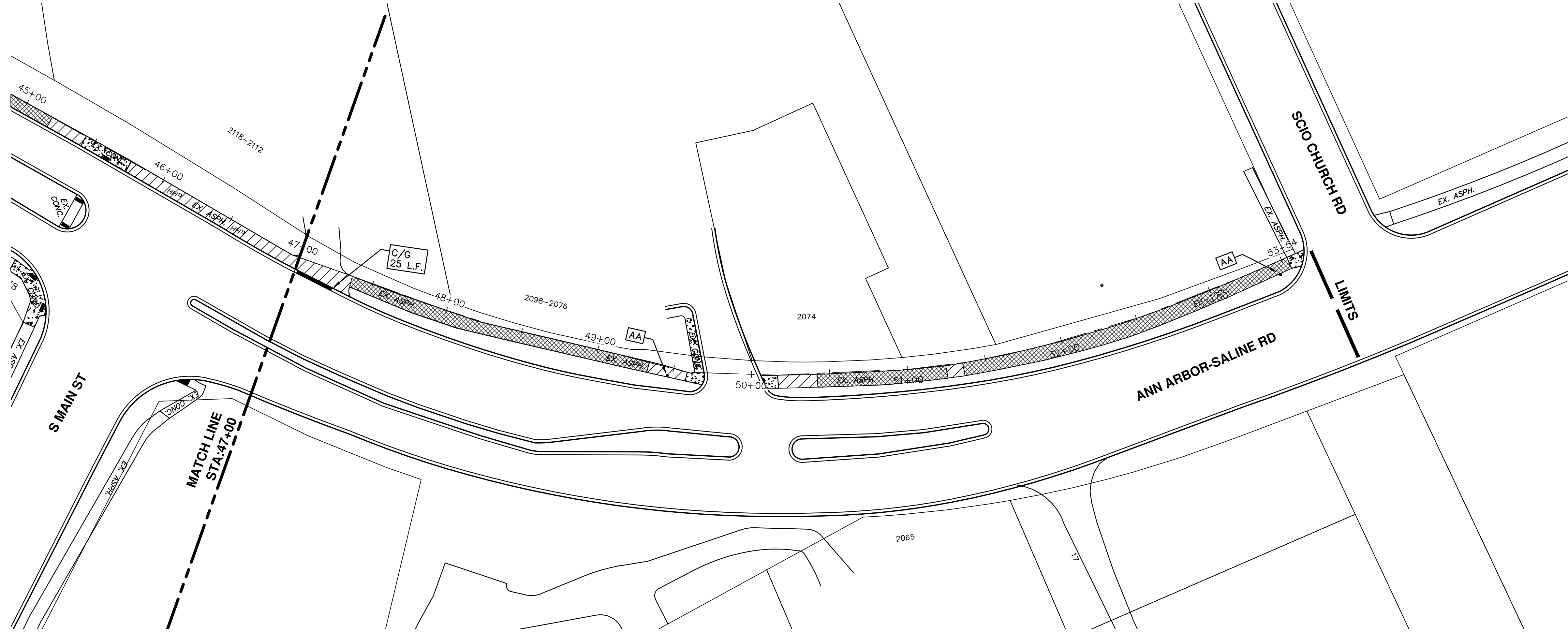
STREET RESURFACING PROJECT - 2018
 ANN ARBOR - SALINE RD BIKEPATH
 STA. 37+00 - STA. 47+00



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	2-27-18	GSCE	DAD



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	OVERLAY EXISTING HMA PATH
	EXISTING CONCRETE
	REMOVE & REPLACE EXISTING HMA PATH



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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01	ADDENDUM #1	3-15-18	GSCE	DAD
00	BID SET	2-27-18	GSCE	DAD

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STREET RESURFACING PROJECT - 2018
ANN ARBOR - SALINE RD BIKEPATH
STA. 47+00 - STA. 50+54

SCALE PLAN: 1"=40'
DRAWING No. 2018004-77