

**ADDENDUM NO. 1
TO
BID DOCUMENTS FOR
STREET RESURFACING - 2016
FOR THE
CITY OF ANN ARBOR, MICHIGAN**

The following changes, additions, and/or deletions shall be made to the Bid Documents for Street Resurfacing - 2016, for the City of Ann Arbor, Michigan, ITB No. 4422.

The information contained herein shall take precedence over the original documents and all previous addenda, and is appended thereto. **This Addendum includes 100 page(s).**

The Contractor is to acknowledge receipt of this Addendum No. 1 on page ITB-1 of the Bid Documents prior to submitting its Proposal.

The following forms provided within this 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 in the Bid Documents outlined below are referenced to a page or drawing in which they appear conspicuously. The Bidder is to take note in its review of the documents and include these changes as they affect work or details in other areas not specifically referenced here.

Item #1: Detailed Specification for HMA Application Estimate page DS-35; replace this page with the attached page ADD-1-3.

Item #2: Contract Plan Set; replace originally issued plan set file *ITB 4422 Street Resurfacing 22x34 Plans FINAL_2016-02-22.pdf* with the file included hereto.

- *ITB 4422 Street Resurfacing 22x34 Plans ADD 1_2016-03-07.pdf*

Changes include the following:

Plan Sheet 1 of 97 (Cover Sheet) – Revised SHEET INDEX TABLE.

Plan Sheets 2, 6, 14, 25, 33, 44, 55, 67, 71, 83, 86, 89, 91, 93, and 95 of 97
(Location Cover Sheets) – Revised QUANTITY TABLE to reflect correct pay items and quantities respective to each location, revised CONSTRUCTION KEY to reflect correct pay item associations, deleted TRAFFIC CONTROL AND SIGN LEGEND, added QUANTITY TABLE for Sign, Type B, Temp, Prismatic, revised CONSTRUCTION METHOD AND SEQUENCING notes to reflect work required at each respective location.

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

CITY OF ANN ARBOR
 DETAILED SPECIFICATION
 FOR
HMA APPLICATION ESTIMATE

AA:DAD

1 of 1

03/07/16

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

b. Materials.

PAY ITEM	HMA MIX	APPLICATION RATE	ESTIMATED THICKNESS	PERFORMANCE GRADE	AWI (min)
HMA, 5E3 HMA, 4E3	5E3 (top) 4E3 (leveling) (Major Streets)	165 lb/syd 220 lb/syd	1.50 inches 2.00 inches	PG 64-28 PG 64-28	260 N/A
HMA, LVSP HMA, LVSP	LVSP (top) LVSP (leveling) (Local Streets)	220 lb/syd 220 lb/syd	2.00 inches 2.00 inches	PG 58-28 PG 58-28	220 N/A
HMA, Approach	5E3 (Major Streets) LVSP (Local Streets)	220 lb/syd	Thickness may vary with maximum layer = 2.0 inches	PG 64-28 PG 58-28	260 220
HMA, Wedging, 36A	36A	Yield may vary between 110 and 330 lb/syd	Thickness may vary between 1.0 and 3.0 inches	PG 58-28	220
Hand Patching	5E3 (Major Streets) LVSP (Local Streets)	Yield may vary with maximum = 330 lb/syd	Thickness may vary with maximum layer = 3.0 inches	PG 64-28 PG 58-28	N/A

The Performance Grade asphalt binder range for the HMA mixture shall be as noted above. The Bond Coat material shall be applied in accordance with the requirements of the Detailed Specification entitled "HMA Paving". The uniform rate of application shall be a minimum of 0.10 gallons per square yard, and be approved by the Engineer. This work will not be paid for separately, but shall be included in the cost of the HMA pay items.

c. Measurement and Payment. The work shall be measured and paid for as provided elsewhere in the contract documents.



CITY OF ANN ARBOR PROJECT MANAGEMENT

STREET RESURFACING - 2016

ITB No. 4422 FILE No. 2016004

NOTES:

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

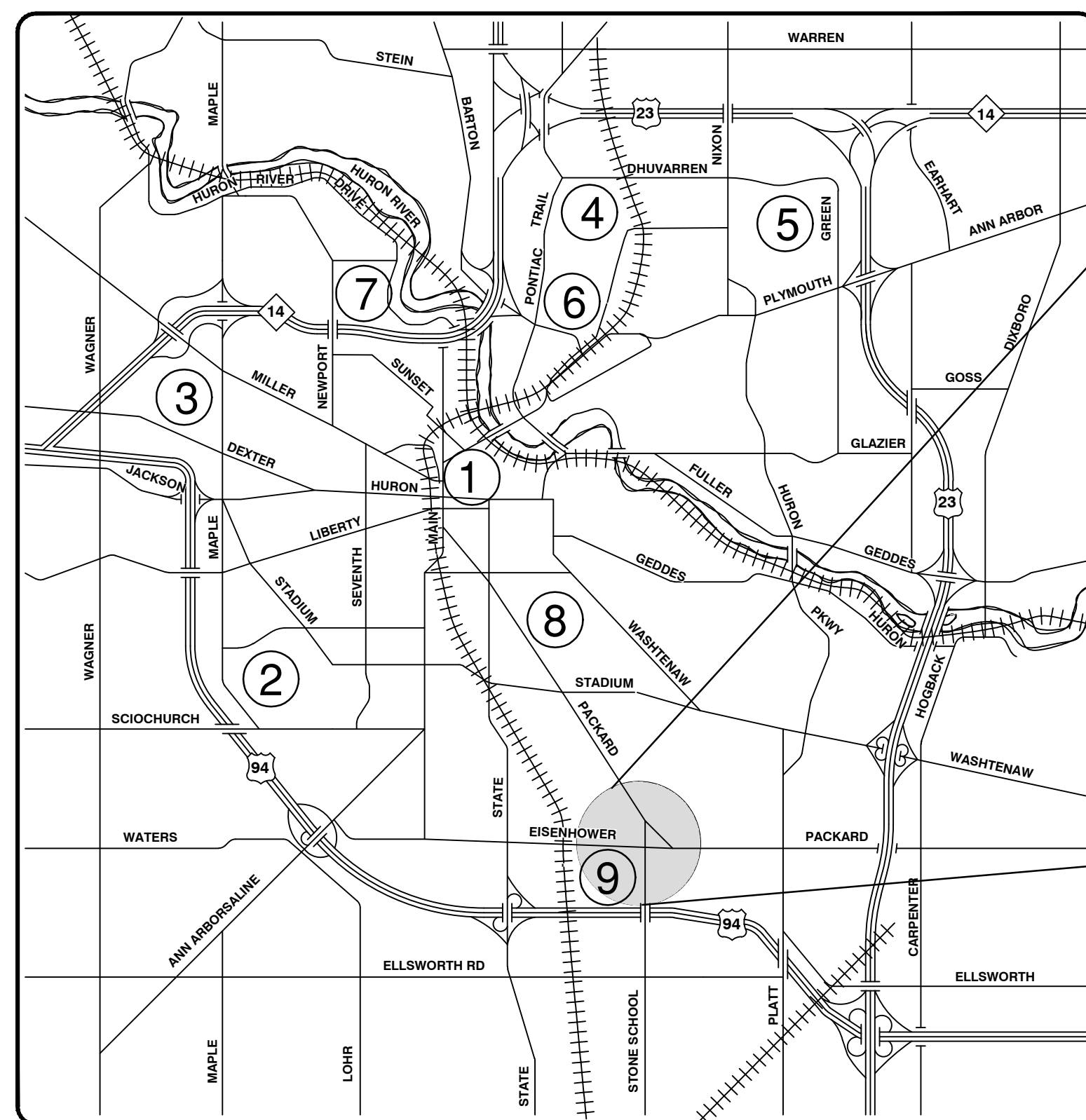
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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

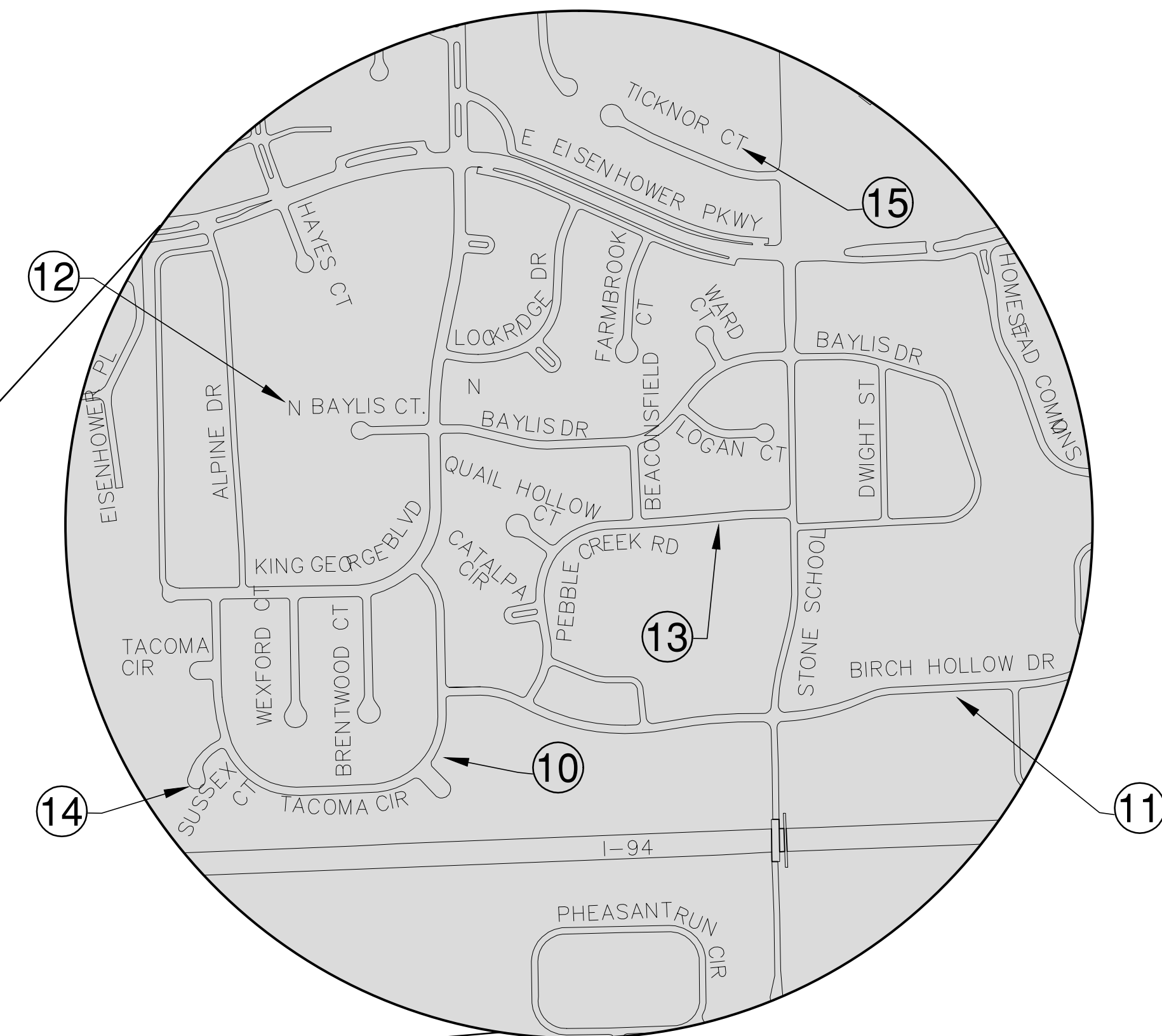


SHEET INDEX

SHEET NO.	TITLE	MAP INDEX NO. (THIS SHEET)
1	COVER SHEET	
2-5	Depot Street	1
6-13	Pauline Boulevard	2
14-24	Dexter Avenue	3
25-32	Dhu Varren Road	4
33-43	Green Road	5
44-54	Pontiac Trail	6
55-66	Huron River Drive	7
67-70	Hill Street	8
71-82	Eisenhower Parkway & Packard Road	9
83-85	Tacoma Circle	10
86-88	Birch Hollow Drive	11
89-90	North Baylis Drive	12
91-92	Catalpa Circle & Pebble Creek Road	13
93-94	Brentwood, Quail Hollow, Sussex & Wexford Courts	14
95-96	Beaconsfield Drive, Page Avenue & Ticknor Court	15
97	Traffic Calming Details	



VICINITY MAP



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PROJECT MANAGEMENT SERVICE UNIT

PREPARED UNDER THE SUPERVISION OF

David Arthur Dykman

DAVID ARTHUR DYKMAN P.E. - MI LICENSE No. 52912
PROJECT MANAGER

2/11/2016
DATE

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 PROJECT DESCRIPTION
 MAJOR AND LOCAL STREET RESURFACING
 DRAWING No.
 2016004 - 1
 SHEET No.
 1 OF 97

STREET RESURFACING - 2016 - ITB No. 4422 - 2016004



CITY OF ANN ARBOR PROJECT MANAGEMENT STREET RESURFACING - 2016 LOCATION: DEPOT STREET

ITB No. 4422 FILE No. 2016004

CONSTRUCTION METHOD AND SEQUENCING

1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
2. IMPLEMENT MAINTENANCE OF TRAFFIC, AND SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. REMOVE TO 3.5 INCHES OF EXISTING ROADWAY HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK AS DIRECTED BY THE ENGINEER.
7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
8. GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. PAVE 2.0 INCHES OF LEVELING COURSE HMA MIX (MAJOR STREETS) AS SPECIFIED OR DIRECTED BY THE ENGINEER.
10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
11. PAVE 1.5 INCHES OF TOP COURSE HMA MIX (MAJOR STREETS) AS SPECIFIED OR DIRECTED BY THE ENGINEER.
12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN UP AND FINAL RESTORATION.
14. REMOVE ALL TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.

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	1,497.000
2047001	Exploratory Excavation (0-10' Deep) Tr Det I	Ea	1.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Sft	97.000
2057011	Grading, Driveway Approach	Syd	35.000
2057011	Grading, Sidewalk	Syd	49.000
2057011	Grading, Sidewalk Ramp	Syd	14.000
2057021	Subgrade Undercutting, Type IIA	Cft	636.000
2087050	Erosion Control, Inlet Filter	Ea	22.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	30.000
4030010	Dr Structure Cover, Type B	Ea	5.000
4030050	Dr Structure Cover, Type K	Ea	5.000
4030200	Dr Structure, 24 inch dia	Ea	2.000
4037001	Dr Structure Cover, Type B, Special	Ea	4.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	20.000
4037050	Dr Structure, Double Inlet	Ea	1.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	26.000
5010003	Cold Milling HMA Surface	Ton	1,266.000
5010005	HMA Surface, Rem	Syd	168.000
5010051	HMA, 4E3	Ton	719.000
5010057	HMA, 5E3	Ton	539.000
5010061	HMA, Approach	Ton	8.000
6027021	Flowable Fill	Cyd	56.000
6030005	Cement	Cyd	3.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	35.000
8027001	Curb and Gutter, Conc	Ft	1,242.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	268.000
8037001	Detectable Warning Surface, Modified	Ft	25.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	120.000
8037010	Sidewalk, Conc or Clay Brick Pavers, Rem	Sft	25.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	400.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	35.000
8110153	Pavt Mrkg, Sprayable Thermopl, 4 inch, White	Ft	132.000
8110154	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	3,208.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	133.000
8110213	Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, Yellow	Ft	36.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	53.000
8117001	Pavt Mrkg, Thermopl, 24 inch, Crosswalk	Ft	200.000
8117050	Pavt Mrkg, Thermopl, Only	Ea	1.000
8117050	Pavt Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	1.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	6.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	6.000
8120140	Lighted Arrow, Type C, Furn	Ea	2.000
8120141	Lighted Arrow, Type C, Oper	Ea	2.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	57.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	57.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	3.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	3.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	78.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	78.000
8167011	Slope Restoration	Syd	549.000
8197050	Handhole Assembly, 12 Inch X 18 Inch	Ea	2.000
8217050	Monument Box Adjust	Ea	2.000
8230431	Gate Box, Adj, Case 1	Ea	10.000

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
CHE	•_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 I	•_Plastic Drum, High Intensity, Lighted, Furn •_Plastic Drum, High Intensity, Lighted, Oper
TYPE II	•_Barricade, Type III, High Intensity, Double Sided, Lighted, Furn •_Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊕	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊕	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
▬	REMOVE AND REPLACE CONC. SIDEWALK
▬	PLACE CONCRETE SIDEWALK
▬	REMOVE & REPLACE CONC. CURB & GUTTER
▬	CONSTRUCTION LIMITS
▬	6" WRAPPED UNDERDRAIN
▬	REMOVE CONCRETE SIDEWALK
▬	SUBGRADE UNDERCUT

Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total
6.0	D3-1	Street Name Sign	4.000	24.000
6.0	W20-1	Road Work Ahead Sign	9.000	54.000
		TOTAL		78.000

NOTES

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

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

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



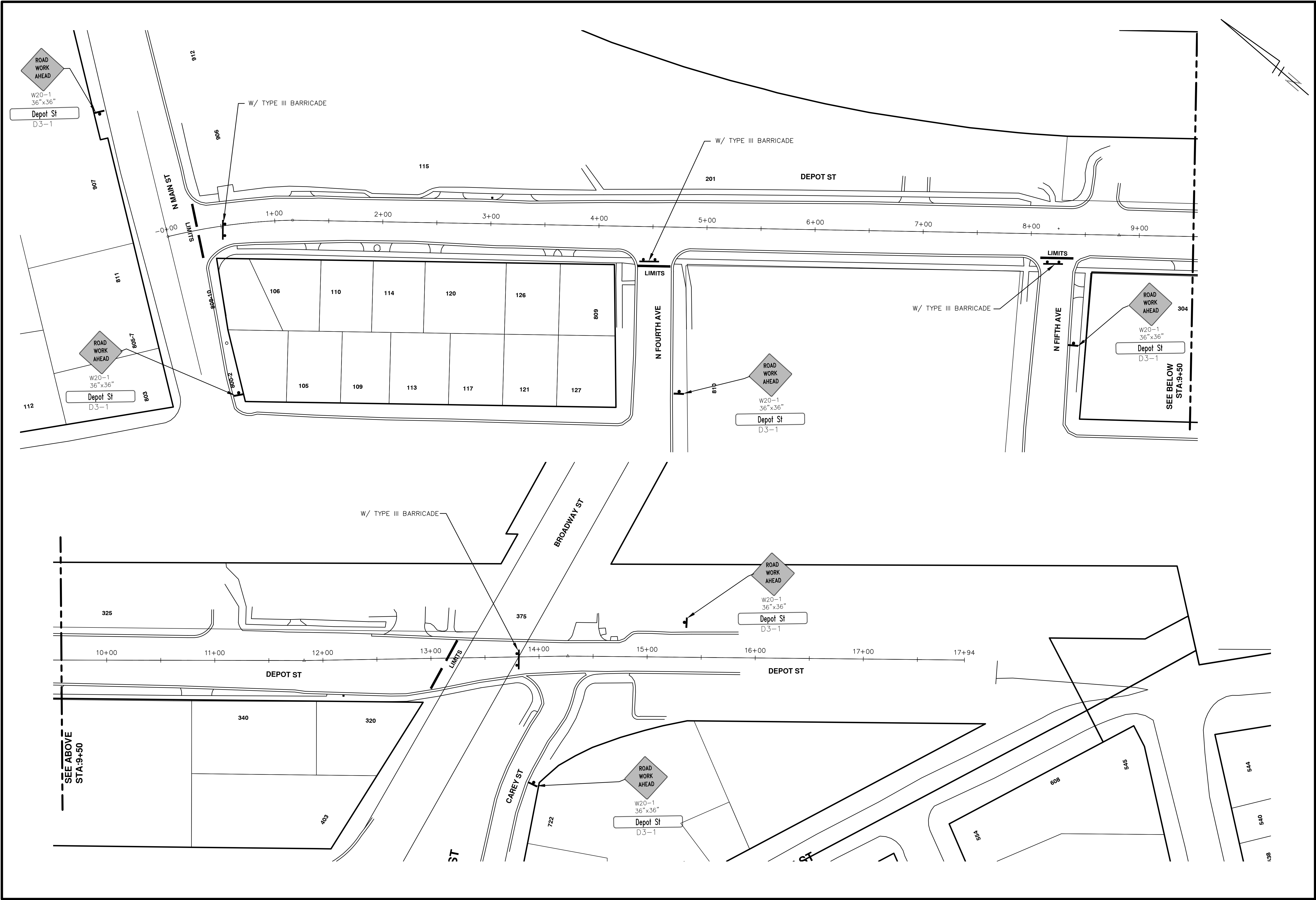
PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
DEPOT STREET
DRAWING No. 2016004-2

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 DEPOT STREET
 TRAFFIC CONTROL

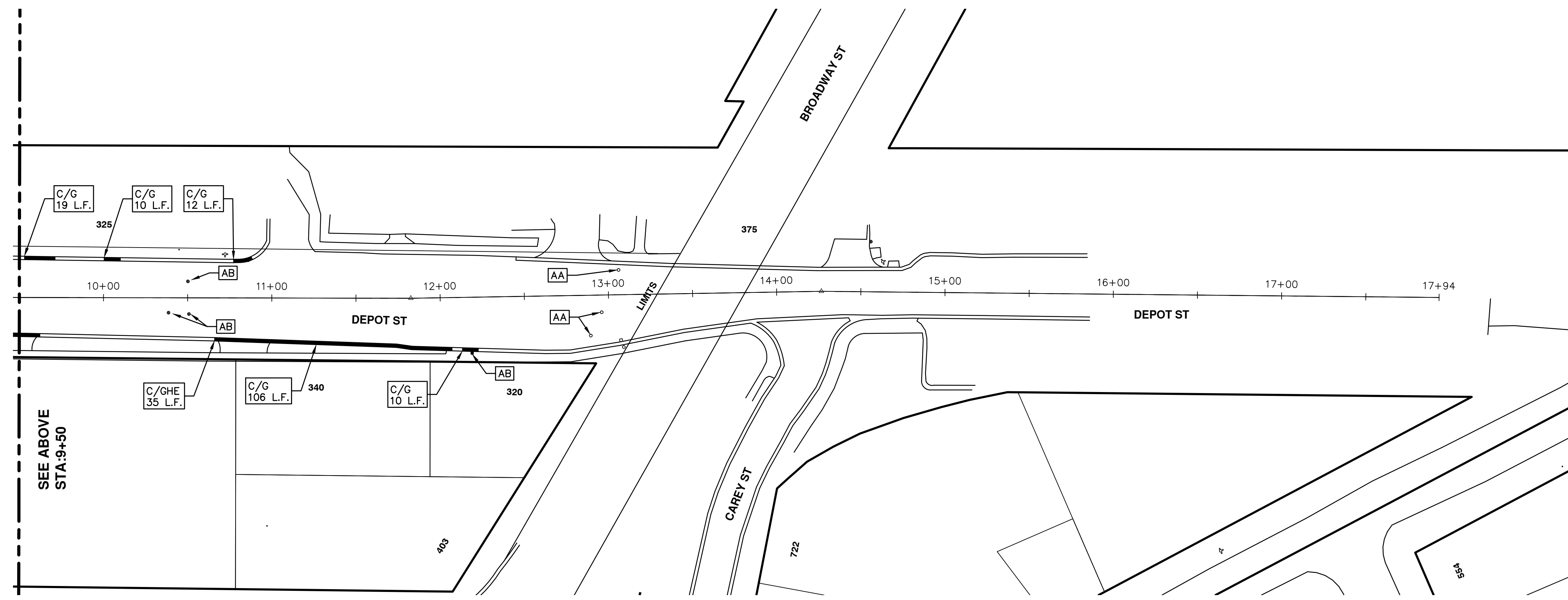
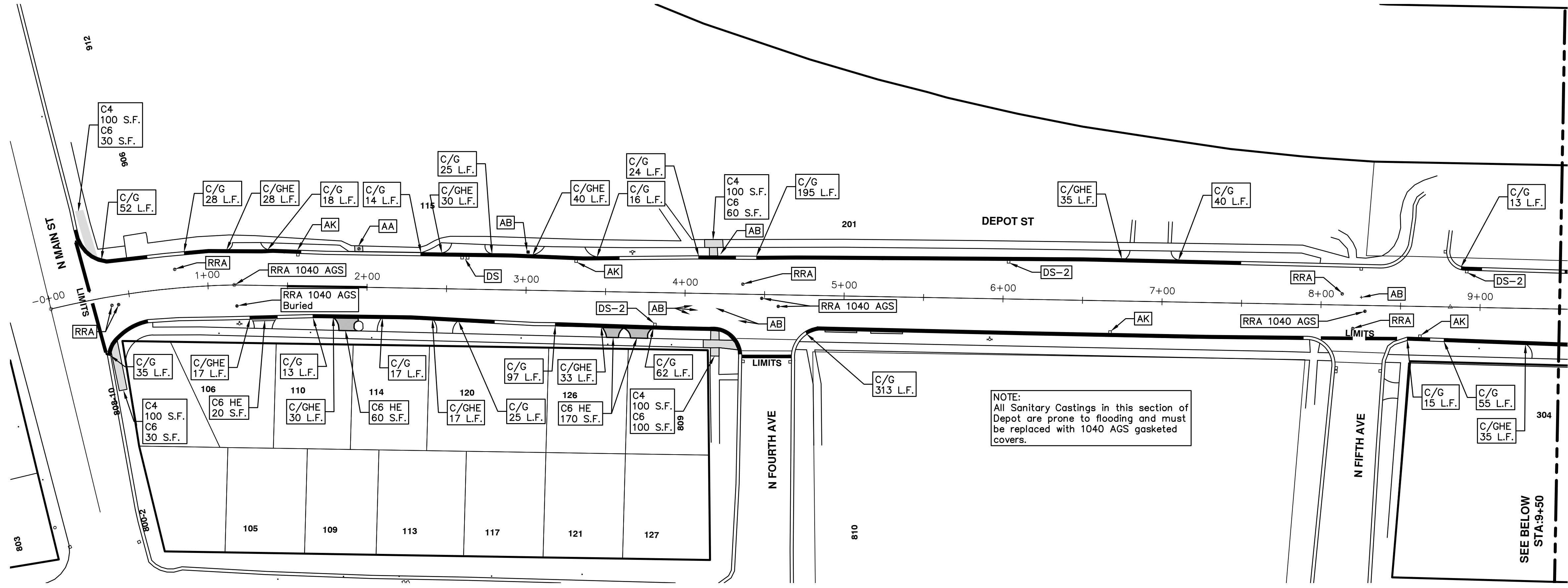
SCALE PLAN: 1" = 40'
 DRAWING No. 2016004-3

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

REV.	DATE	DESCRIPTION
01	3-7-2016	ADDENDUM #1
00	2-22-2016	BID SET
		DRAWN
		CHECKED

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

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 DEPOT STREET
 RESURFACING

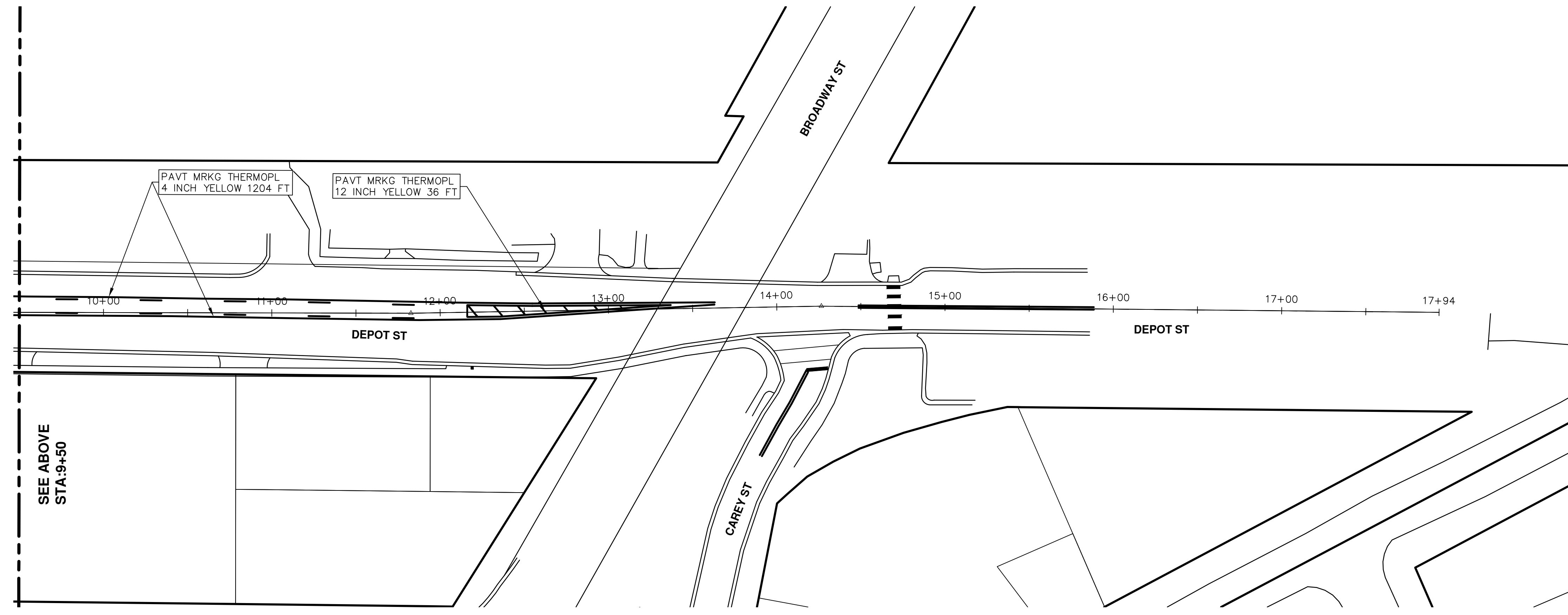
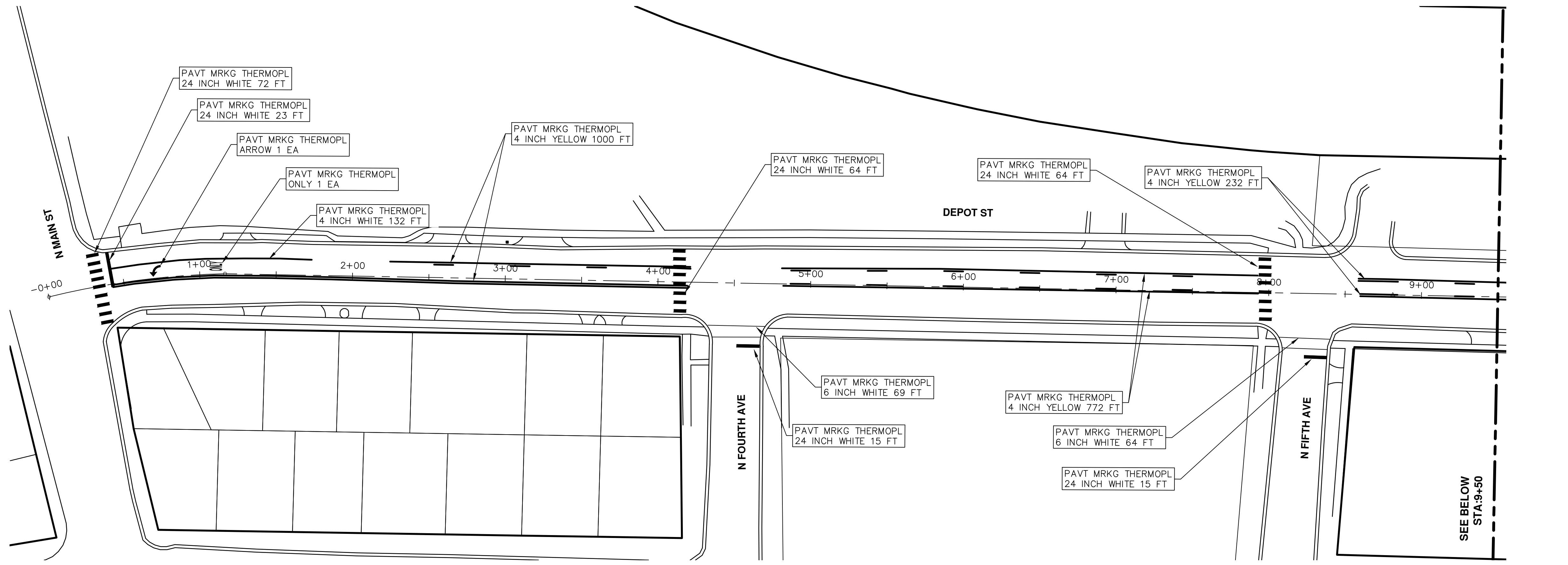
SCALE PLAN: 1" = 40'
 DRAWING No. 2016004-4

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	GS AH JK	DAD

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

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	SS AH JK	DAD

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



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
DEPOT STREET
PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-5



CITY OF ANN ARBOR

PROJECT MANAGEMENT

STREET RESURFACING - 2016

LOCATION: PAULINE BOULEVARD

ITB No. 4422 FILE No. 2016004



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Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	11.000
2030015	Sewer, Rem, Less than 24 inch	Ft	110.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Lft	520.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	79.000
2057011	Grading, Sidewalk	Syd	46.000
2057011	Grading, Sidewalk Ramp	Syd	34.000
2057021	Subgrade Undercutting, Type IIA	Cyd	947.000
2087050	Erosion Control, Inlet Filter	Ea	22.000
4020987	Sewer, GI IV, 12 inch, Tr Det B	Ft	110.000
4030010	Dr Structure Cover, Type B	Ea	1.000
4030050	Dr Structure Cover, Type K	Ea	15.000
4030200	Dr Structure, 24 inch dia	Ea	11.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	18.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	2.000
5010003	Cold Milling HMA Surface	Ton	814.000
5010005	HMA Surface, Rem	Syd	73.000
5010025	Hand Patching	Tons	1.500
5010057	HMA, 5E3	Ton	801.000
5010061	HMA, Approach	Ton	13.000
6027021	Flowable Fill	Cyd	19.259
8027001	Curb and Gutter, Conc	Lft	466.000
8037001	Detectable Warning Surface, Modified	Ft	30.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	300.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	410.000
8110049	Pavt Mrkg, Ovy Cold Plastic, Direction Arrow Sym, Bike	Ea	5.000
8110058	Pavt Mrkg, Ovy Cold Plastic, Bike, Small Sym	Ea	5.000
8110153	Pavt Mrkg, Sprayable Thermopl, 4 inch, White	Ft	63.000
8110154	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	4,970.000
8110155	Pavt Mrkg, Sprayable Thermopl, 6 inch, White	Ft	4,735.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	42.000
8117001	Pavt Mrkg, Thermopl, 24 inch, Crosswalk	Ft	176.000
8117050	Pavt Mrkg, Thermopl, Only	Ea	1.000
8117050	Pavt Mrkg, Thermopl, Rt Turn Arrow Sym	Ea	1.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	6.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	6.000
8120140	Lighted Arrow, Type C, Furn	Ea	2.000
8120141	Lighted Arrow, Type C, Oper	Ea	2.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	105.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	105.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	2.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	2.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	453.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	453.000
8167011	Slope Restoration	Syd	191.000
8230431	Gate Box, Adj, Case 1	Ea	1.000

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 •_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem •_Grading, Driveway Approach •_Grading, Sidewalk •_Grading, Sidewalk Ramp
CHE	•_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 •_Dr Structure, Rem
DSDI	•_Sewer, Rem, Less than 24 inch •_Dr Structure, Double Inlet
PT	•_Dr Structure, Point •_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

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊕	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕+	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
Ⓢ	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
▣	MONUMENT BOX
▭	REMOVE AND REPLACE CONC. SIDEWALK
▭	PLACE CONCRETE SIDEWALK
▬	REMOVE & REPLACE CONC. CURB & GUTTER
---	CONSTRUCTION LIMITS
---	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▬	SUBGRADE UNDERCUT

Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sqft)	Total
16.0	D3-1	Street Name Sign	4.000	64.000
0.0	M4-10L	Detour Arrow (Left) Sign	6.000	0.000
3.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	15.000
4.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	20.000
5.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	25.000
1.0	M4-8a	End Detour Sign	3.000	3.000
5.0	SP-1	Special Sign	20.000	100.000
1.0	R11-2	Road Closed Sign ("Road Closed")	10.000	10.000
2.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	25.000
1.0	R3-1	Movement Prohibition Sign ("No Right Turn")	4.000	4.000
1.0	R3-5a	Mandatory Movement Sign (Thru Only)	5.000	5.000
5.0	R6-1L	One Way (Left) Sign	3.000	15.000
7.0	R6-1R	One Way (Right) Sign	3.000	21.000
6.0	W20-1	Road Work Ahead Sign	16.000	96.000
2.0	W20-2	Detour Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	16.000	32.000
		TOTAL		453.000

CONSTRUCTION METHOD AND SEQUENCING

1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
2. IMPLEMENT MAINTENANCE OF TRAFFIC, AND SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. REMOVE TOP 1.5 INCHES OF EXISTING ROADWAY HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK AS DIRECTED BY THE ENGINEER.
7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
8. GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 1.5 INCHES OF TOP COURSE HMA MIX AS SPECIFIED OR DIRECTED BY THE ENGINEER.
11. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. REMOVE ALL 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 THIS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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

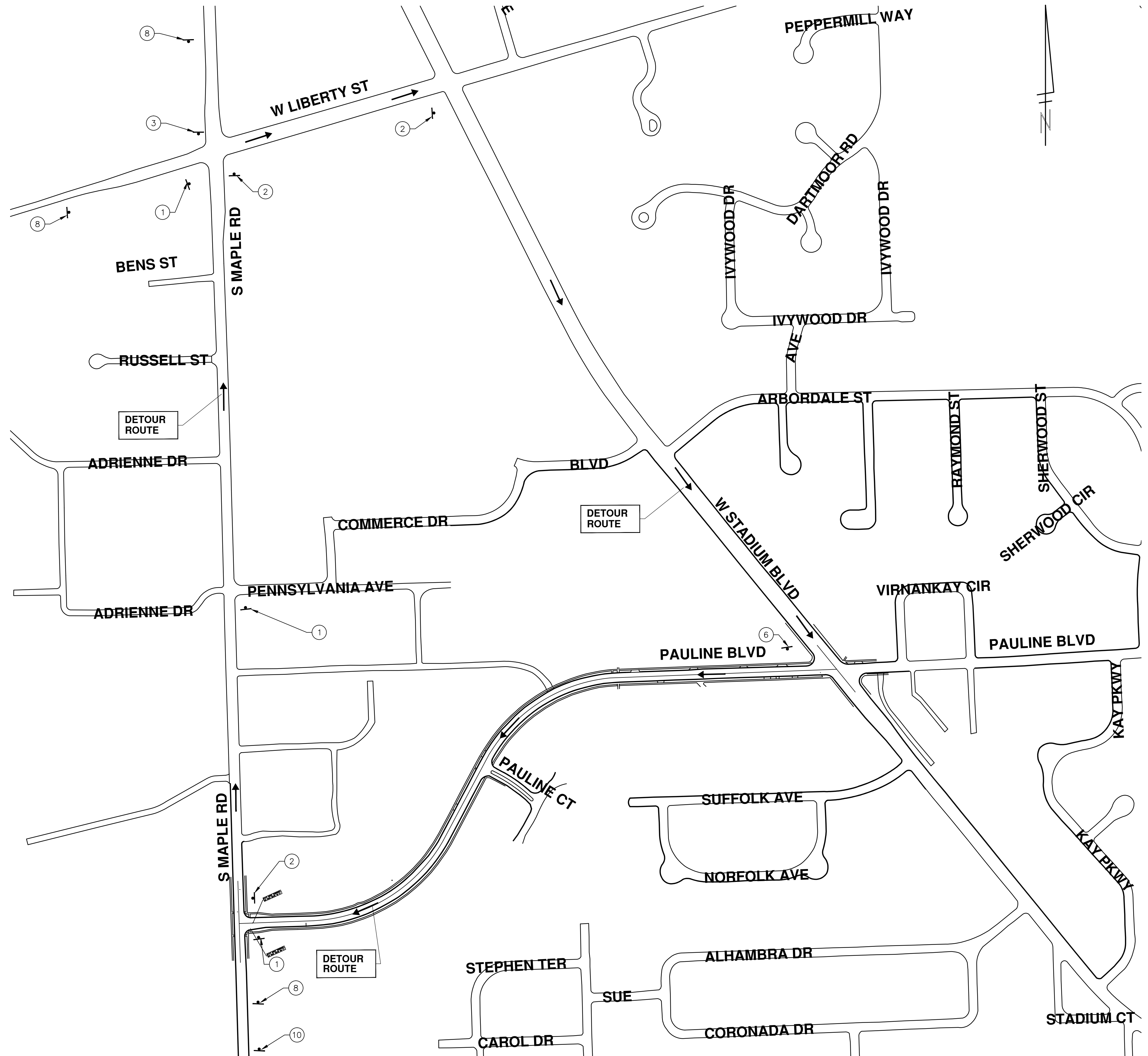


PROJECT MANAGEMENT SERVICES UNIT
 CITY OF ANN ARBOR PUBLIC SERVICES
 301 EAST HURON STREET, P.O. BOX 8647
 ANN ARBOR, MICHIGAN 48107-8647
 734-794-6410 www.a2gov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 STREET RESURFACING - 2016
 PAULINE BOULEVARD
 PROJECT DESCRIPTION
 DRAWING No. 2016004-6
 SHEET No. 6 OF 97

S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-PAULINE BLVD.dwg Dwg Created: 25-Nov-15 - _a2_standard bw.stb - Plot Date: 7-Mar-16

TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
1		D3-1 M4-9S 30x24
2		D3-1 M4-9R 30x24
3		D3-1 M4-9L 30x24
6		D3-1 M4-8a 24X18
7		R11-4 60x30
8		SPECIAL 48x60
9		SPECIAL 48x60
10		W20-2 36x36 PAULINE BLVD D3-1
11		R11-2 48"x60"



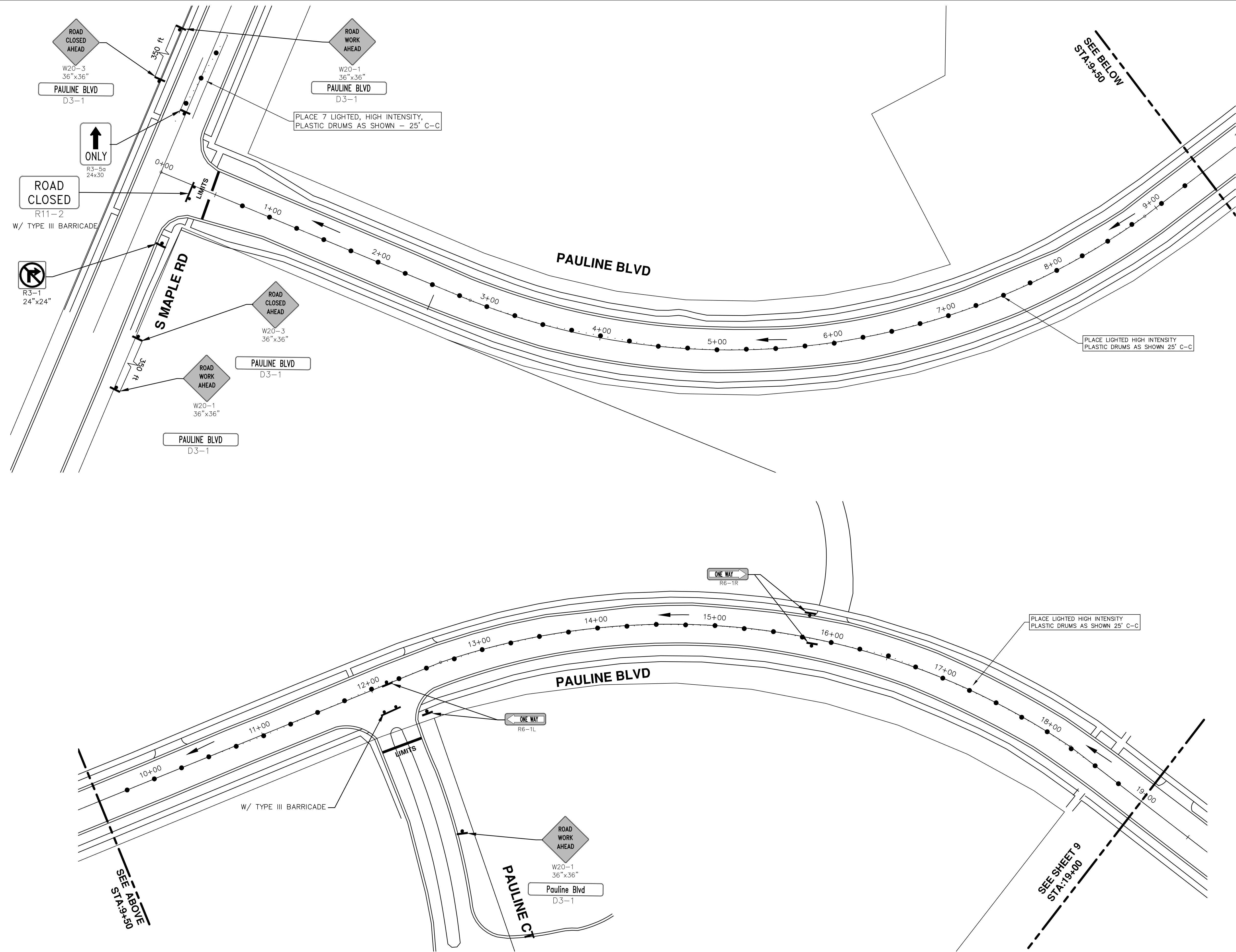
REV.	DATE	DESCRIPTION
01	3-7-2016	ADDENDUM #1
00	2-22-2016	BID SET

CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-0667
 www.a2gov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 STREET RESURFACING - 2016
 PAULINE BOULEVARD
 DETOUR

SCALE PLAN: 1" = 200'
 DRAWING No. 2016004-7

S:\Project Management\Drafting\autocad\20160004\Plan Production\20160004-PAULINE BLVD.dwg Dwg Created: 25-Nov-15 - _a2 standard bw.stb - Plot Date: 7-Mar-16



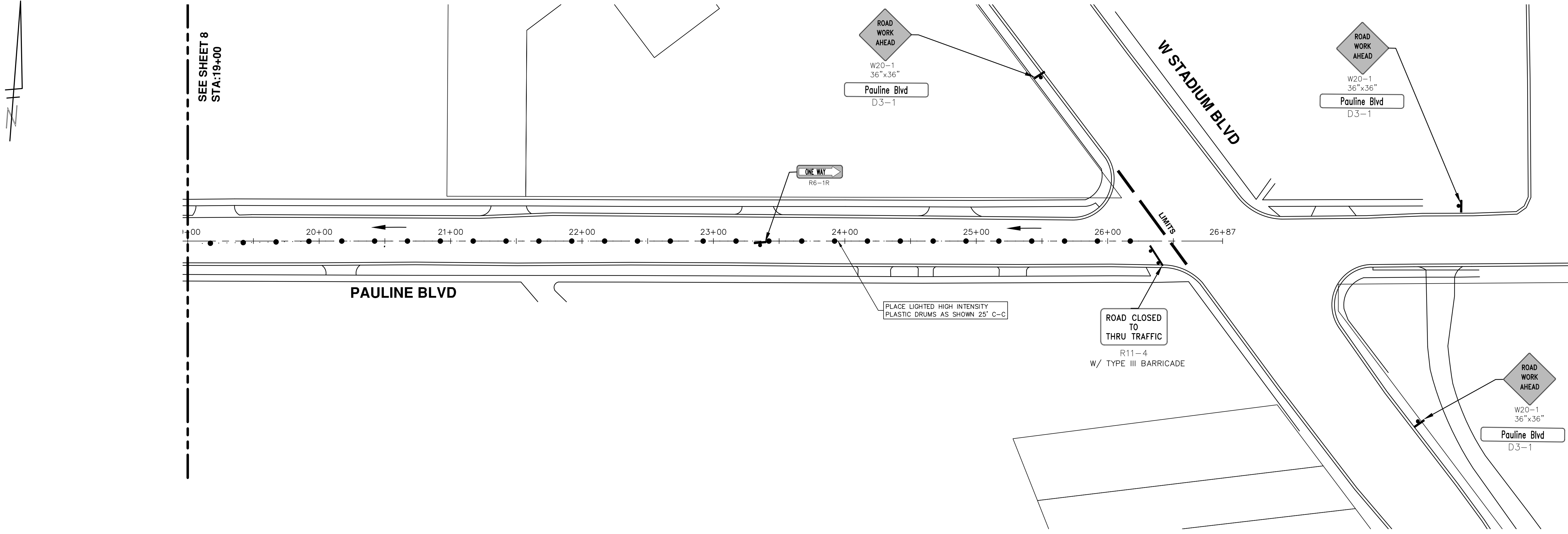
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 PAULINE BOULEVARD
 TRAFFIC CONTROL


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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	GS AH JK	DAD

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

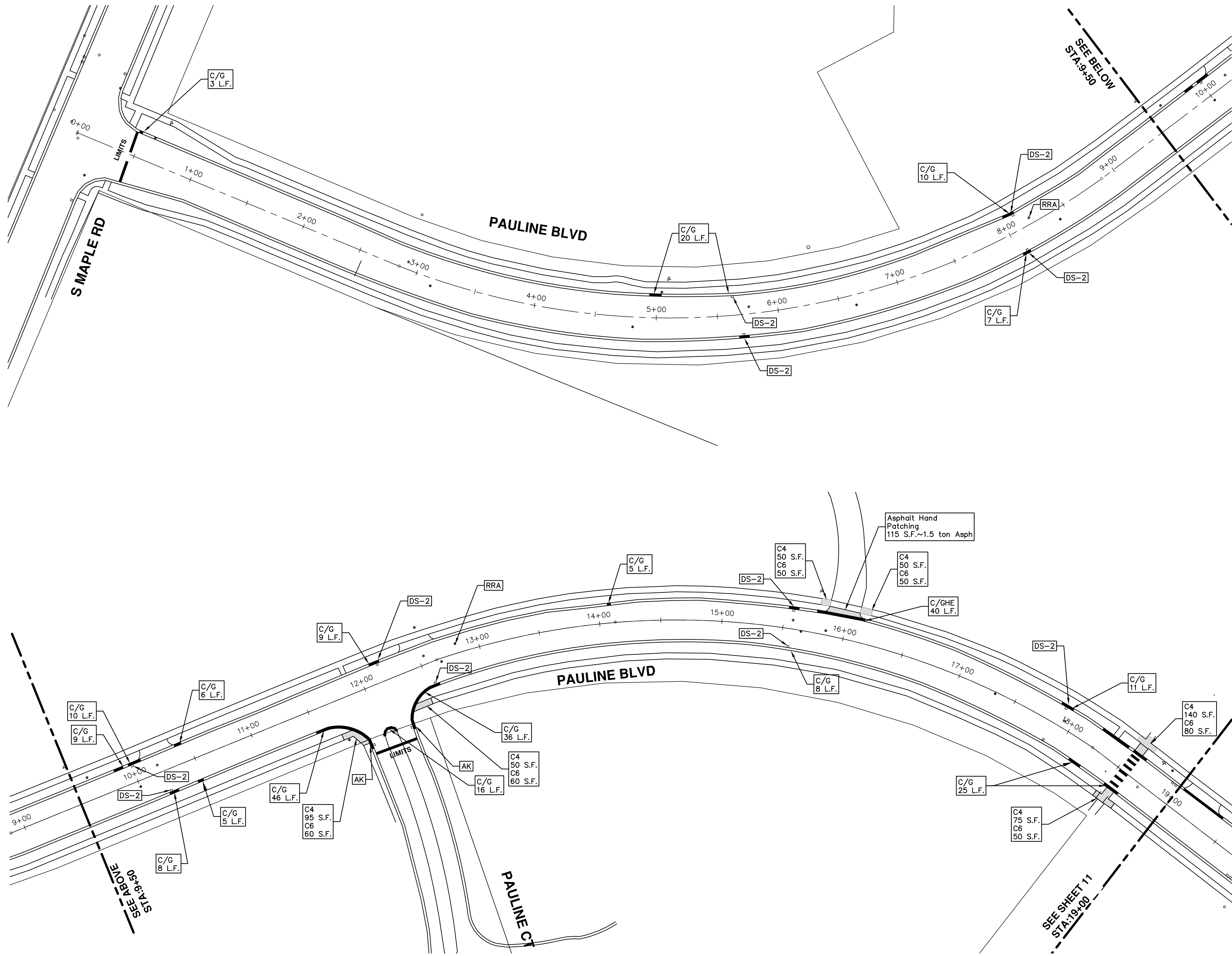
SCALE PLAN: 1" = 40'
 DRAWING No. 2016004-8
 SHEET No. 8 OF 97



		PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR STREET RESURFACING - 2016 PAULINE BOULEVARD TRAFFIC CONTROL	
SCALE PLAN: 1" = 40' DRAWING No. 2016004-9		CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-1667 www.a2gov.org	
REV.	DESCRIPTION	DATE	CHECKED
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00	REV.	2-22-2016	DAD

Know what's below. Call before you dig.

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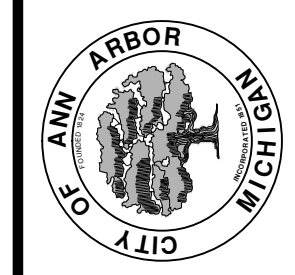
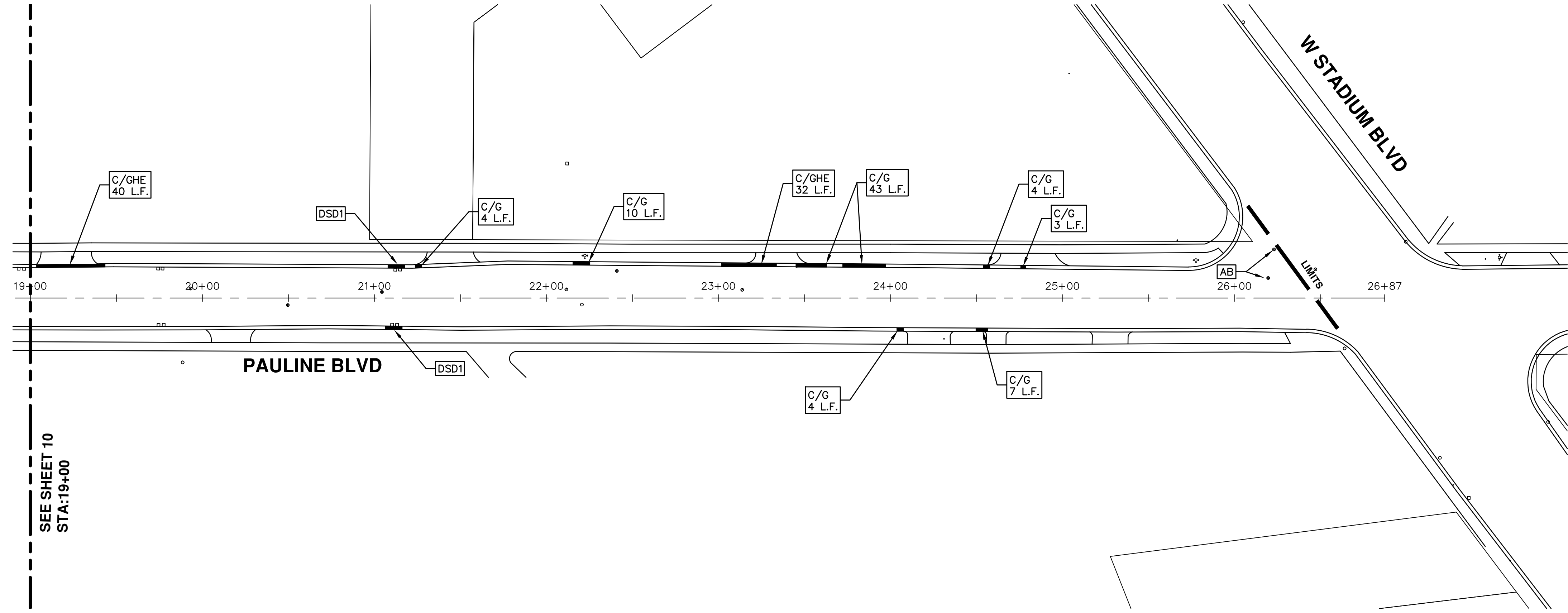
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00	BID SET	2-22-2016	GS AH JK	DAD

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



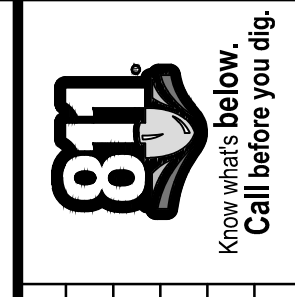
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 PAULINE BOULEVARD
 RESURFACING

SCALE PLAN: 1" = 40'
 DRAWING No. 2016004-10

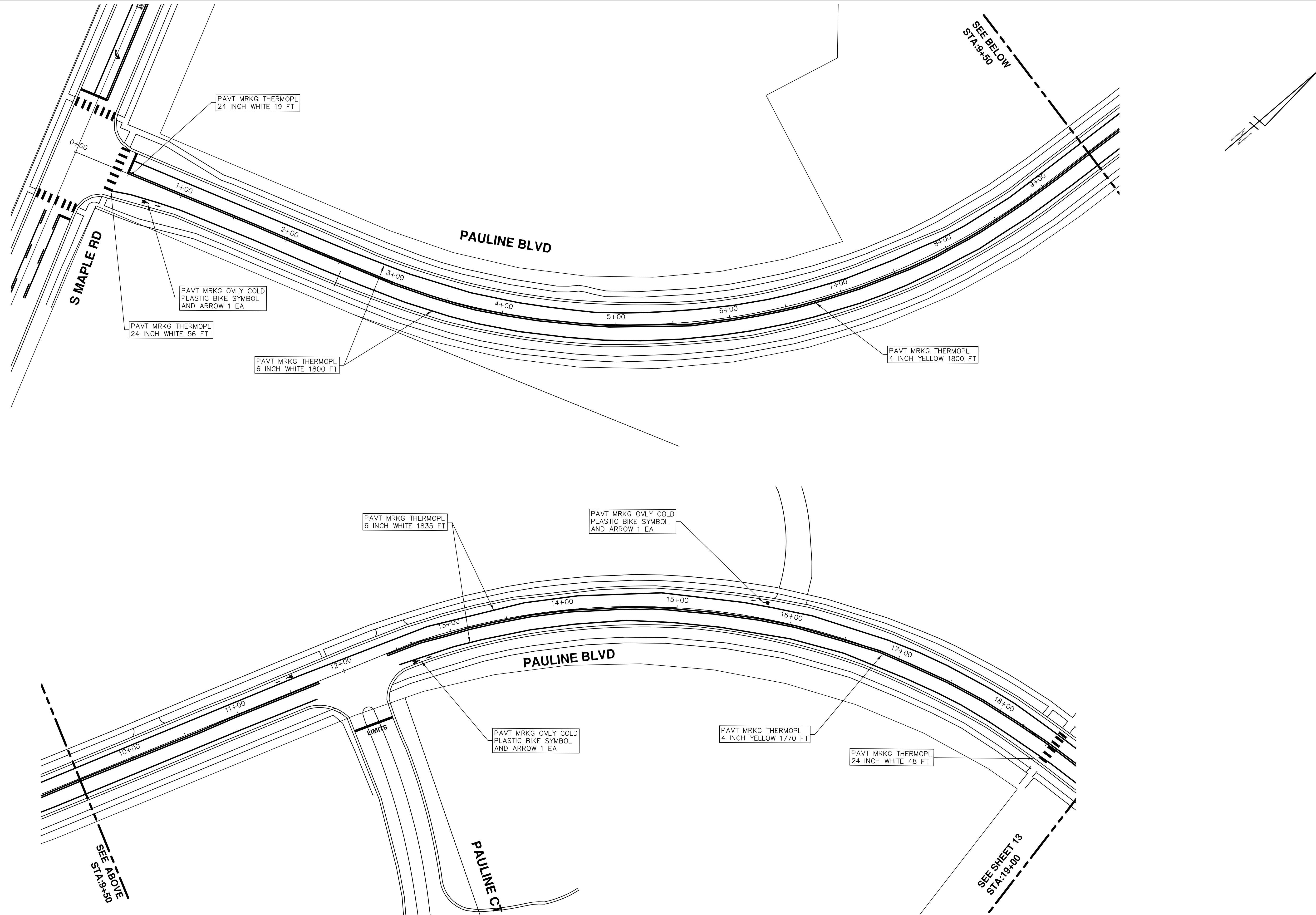



CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR MI 48106-3667
www.a2gov.org

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	2-22-2016	SS AH JK	DAD

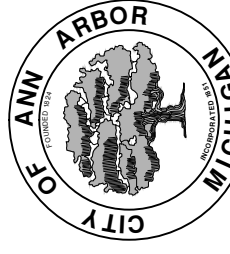


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 Know what's below. Call Before you dig.				
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	GS AH JK	DAD

CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-8647
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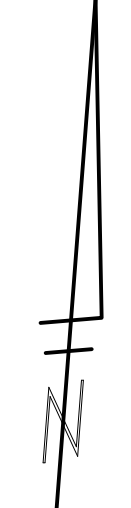
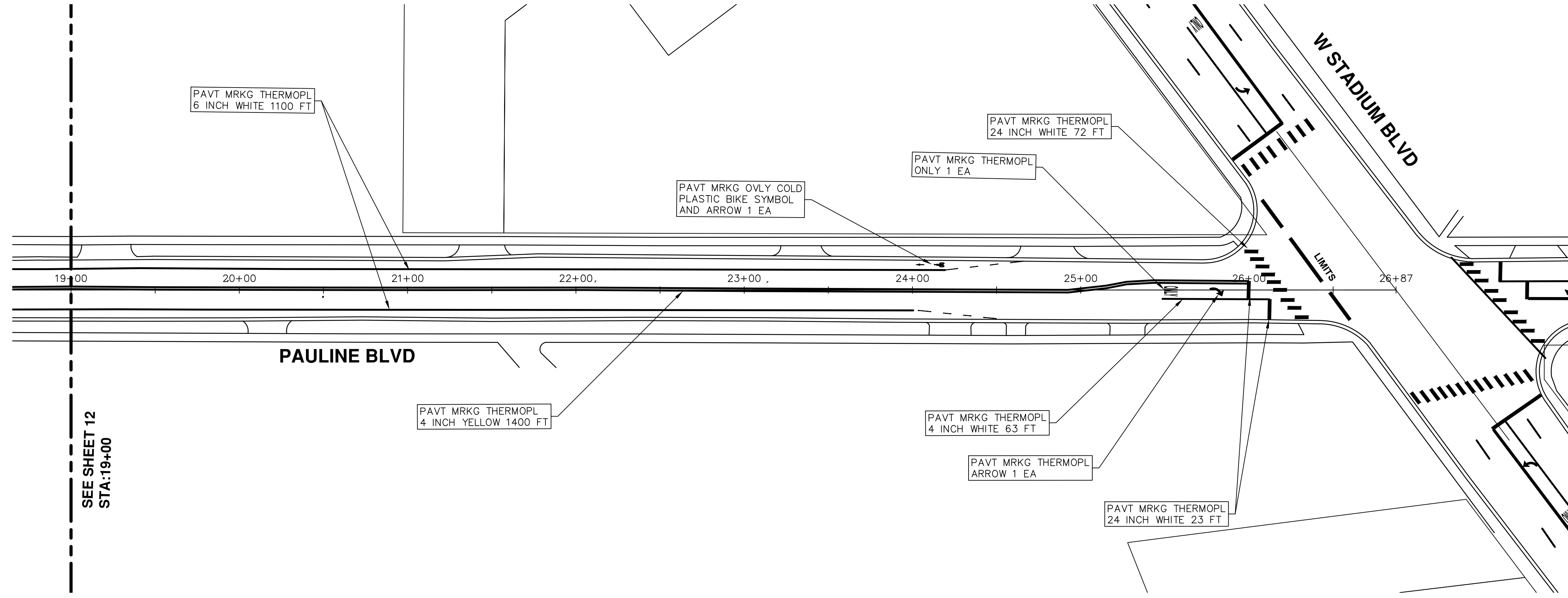


 CITY OF ANN ARBOR MICHIGAN

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 PAULINE BOULEVARD
 PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'
 DRAWING No. 2016004-12

SHEET No. 12 OF 97



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 PAULINE BOULEVARD
 PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'

DRAWING No. 2016004-13

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 #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	GS AH JK	DAD





CITY OF ANN ARBOR

PROJECT MANAGEMENT

STREET RESURFACING - 2016

LOCATION: DEXTER AVENUE

ITB No. 4422 FILE No. 2016004



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Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	1.000
2030015	Sewer, Rem, Less than 24 inch	Ft	10.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Lt	816.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	200.000
2057011	Grading, Driveway Approach	Syd	48.000
2057011	Grading, Sidewalk	Syd	105.000
2057011	Grading, Sidewalk Ramp	Syd	48.000
2057021	Subgrade Undercutting, Type IIA	Cyd	2,105.000
2087050	Erosion Control, Inlet Filter	Ea	6.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	10.000
4030010	Dr Structure Cover, Type B	Ea	23.000
4030050	Dr Structure Cover, Type K	Ea	1.000
4030200	Dr Structure, 24 inch dia	Ea	1.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	41.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	52.000
5010003	Cold Milling HMA Surface	Ton	1,818.000
5010005	HMA Surface, Rem	Syd	91.000
5010057	HMA, 5E3	Ton	1,784.000
5010061	HMA, Approach	Ton	34.000
6027021	Flowable Fill	Cyd	30,222
6030005	Cement	Ton	3.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	48.000
8027001	Curb and Gutter, Conc	Lt	752.000
8027001	Driveway Opening, Conc, Det M, Modified	Lt	70.000
8037001	Detectable Warning Surface, Modified	Ft	40.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	430.000
8037010	Sidewalk with Integral Retaining Wall, 6 inch to 18 inch Height	Sft	45.000
8037010	Sidewalk with Integral Retaining Wall, Less than 6 inch Height	Sft	15.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	890.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	48.000
8110049	Pavt Mrkg, Owy Cold Plastic, Direction Arrow Sym, Bike	Ea	10.000
8110058	Pavt Mrkg, Owy Cold Plastic, Bike, Small Sym	Ea	10.000
8110153	Pavt Mrkg, Sprayable Thermopl, 4 inch, White	Ft	447.000
8110154	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	8,974.000
8110155	Pavt Mrkg, Sprayable Thermopl, 6 inch, White	Ft	7,911.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	119.000
8117001	Pavt Mrkg, Thermopl, 24 inch, Crosswalk	Ft	96.000
8117050	Pavt Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	3.000
8117050	Pavt Mrkg, Thermopl, Only	Ea	3.000
8117050	Pavt Mrkg, Thermopl, Rt Turn Arrow Sym	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	22.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	22.000
8120140	Lighted Arrow, Type C, Furn	Ea	3.000
8120141	Lighted Arrow, Type C, Oper	Ea	3.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	225.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	225.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	1.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	1.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	792.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	792.500
8127050	No Parking Sign	Ea	80.000
8167011	Slope Restoration	Syd	300.000
8217050	Monument Box Adjust	Ea	3.000
8230431	Gate Box, Adj, Case 1	Ea	12.000

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 •_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem •_Grading, Driveway Approach •_Grading, Sidewalk •_Grading, Sidewalk Ramp
CHE	•_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 I	•_Plastic Drum, High Intensity, Lighted, Furn •_Plastic Drum, High Intensity, Lighted, Oper
TYPE II	•_Barricade, Type III, High Intensity, Double Sided, Lighted, Furn •_Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊕	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊕	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊕	MONUMENT BOX
▬	REMOVE AND REPLACE CONC. SIDEWALK
▬	PLACE CONCRETE SIDEWALK
▬	REMOVE & REPLACE CONC. CURB & GUTTER
▬	CONSTRUCTION LIMITS
▬	6" WRAPPED UNDERDRAIN
▬	REMOVE CONCRETE SIDEWALK
▬	SUBGRADE UNDERCUT

Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sqft)	Total
67.0	D3-1	Street Name Sign	4.000	268.000
1.0	M4-10L	Detour Arrow 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
3.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	15.000
5.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	25.000
1.0	R11-2	Road Closed Sign ("Road Closed")	10.000	10.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
1.0	R3-1	Movement Prohibition Sign ("No Right Turn")	4.000	4.000
1.0	R3-2	Movement Prohibition Sign ("No Left Turn")	4.000	4.000
2.0	R3-8	Advance Intersection Lane Control Sign (Left Turn Only or Right Turn Only)	7.500	15.000
2.0	R3-8	Advance Intersection Lane Control Sign (Thru Only or Right Turn Only)	7.500	15.000
18.0	R6-1 L	One Way (Left) Sign	3.000	54.000
21.0	R6-1R	One Way (Right) Sign	3.000	63.000
2.0	SP-1	Special Sign	20.000	40.000
21.0	W20-1	Road Work Ahead Sign	9.000	189.000
3.0	W20-2	Detour Ahead Sign	9.000	27.000
3.0	W20-3	Road Closed Ahead Sign	9.000	27.000
		TOTAL		792.50

CONSTRUCTION METHOD AND SEQUENCING

1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
2. IMPLEMENT MAINTENANCE OF TRAFFIC, AND SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. REMOVE TOP 1.5 INCHES OF EXISTING ROADWAY HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK AS DIRECTED BY THE ENGINEER.
7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
8. GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 1.5 INCHES OF TOP COURSE HMA MIX AS SPECIFIED OR DIRECTED BY THE ENGINEER.
11. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. REMOVE ALL 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 THIS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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



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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 STREET RESURFACING - 2016
 DEXTER AVENUE
 PROJECT DESCRIPTION
 DRAWING No. 2016004-14

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TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
1		D3-1 M4-9S 30x24
2		D3-1 M4-9R 30x24
3		D3-1 M4-9L 30x24
6		D3-1 M4-8a 24x18
7		R11-4 60x30
8		SPECIAL 48x60
9		SPECIAL 48x60
10		W20-2 36"x36" D3-1
11		W20-3 36"x36" D3-1
12		W20-1 36"x36" D3-1
13		R11-4 60x30



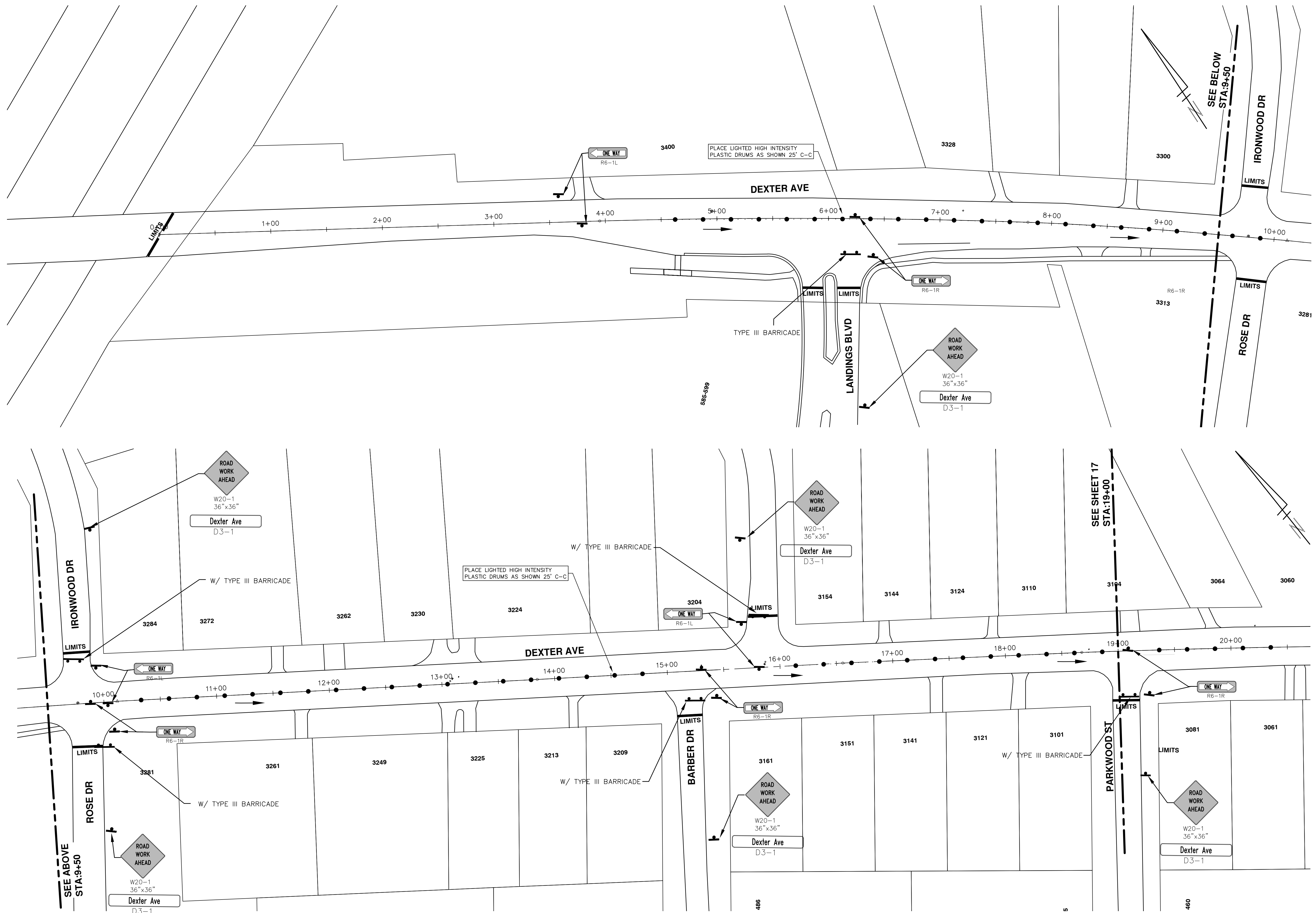
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01	3-7-2016	DAD	DRAWN
00	2-22-2016	ISS AH UK	CHECKED

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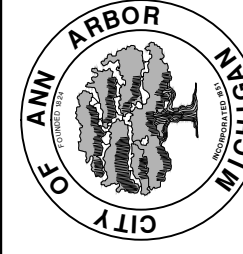
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
DEXTER AVENUE
DETOUR

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00	BID SET	2-22-2016	GS AH JK	DAD

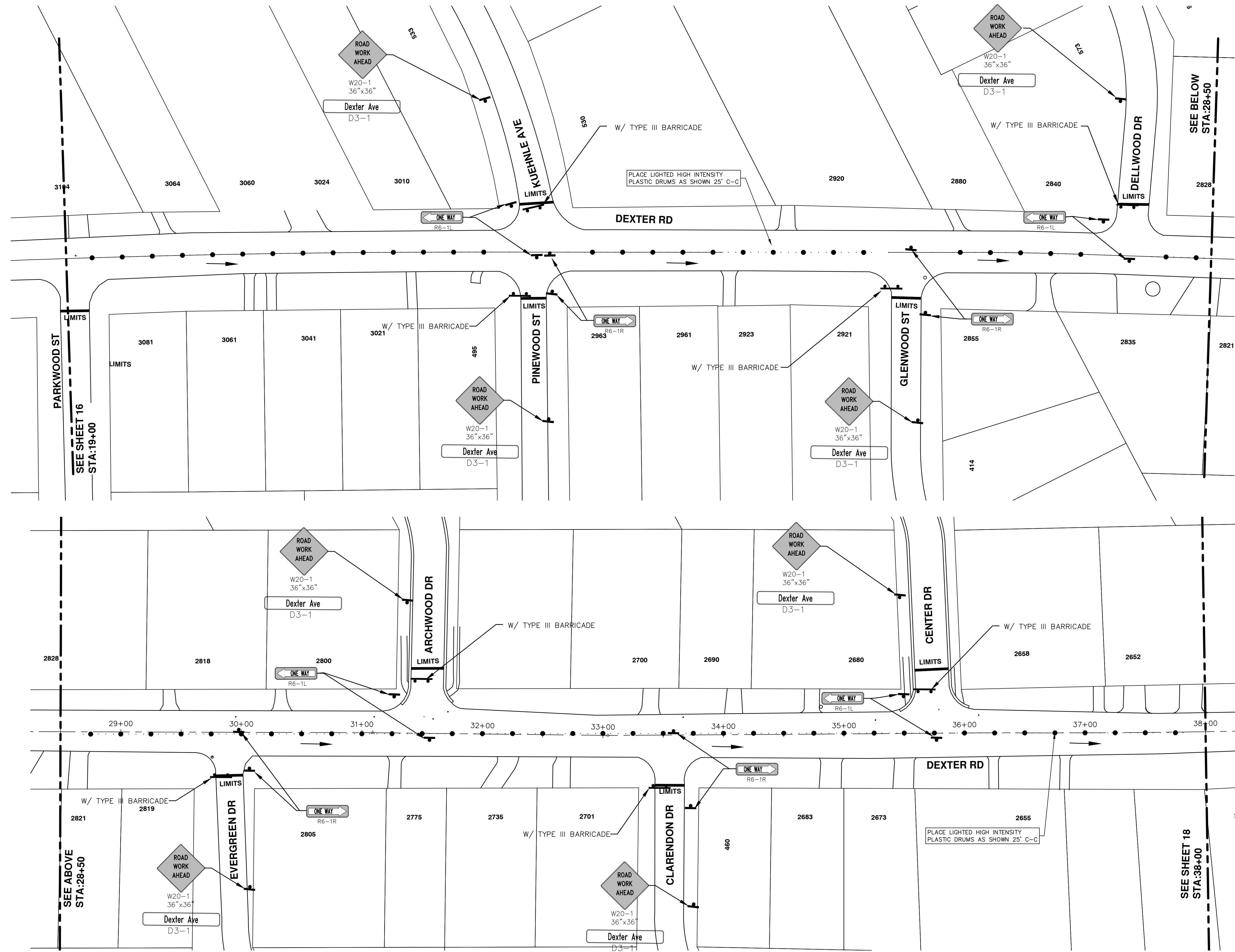
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
DEXTER AVENUE
TRAFFIC CONTROL

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-16

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SEE SHEET 16
STA:19+00

SEE ABOVE
STA:28+50

SEE SHEET 18
STA:39+00

SEE BELOW
STA:28+50

811
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REV.	DATE	DESCRIPTION
01	3-7-2016	ADDENDUM #1
00	2-22-2016	BID SET

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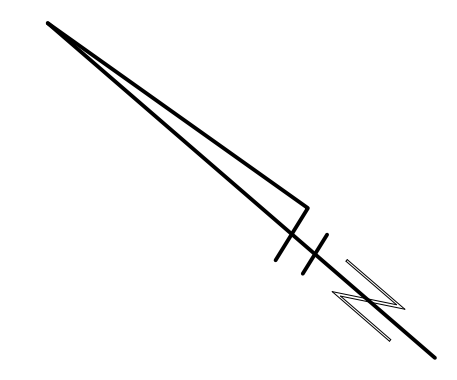
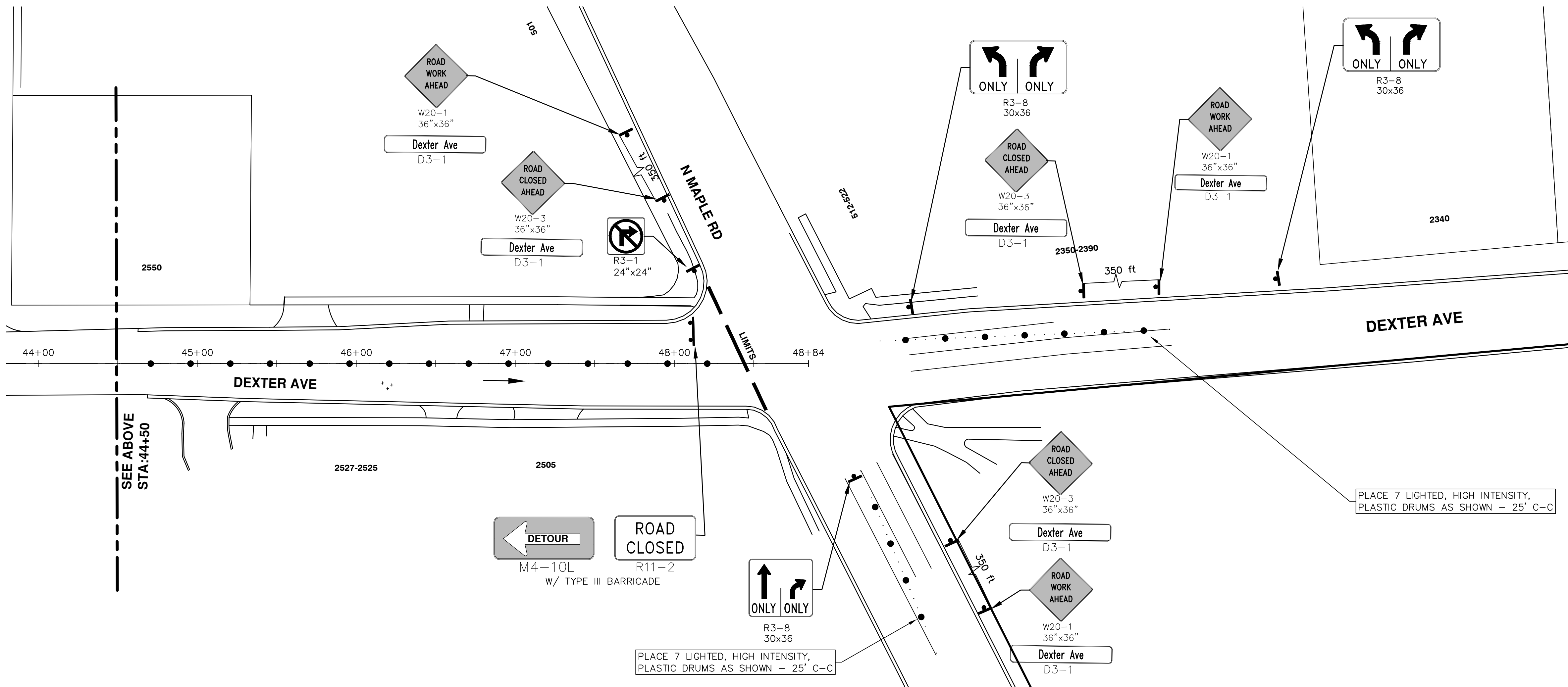
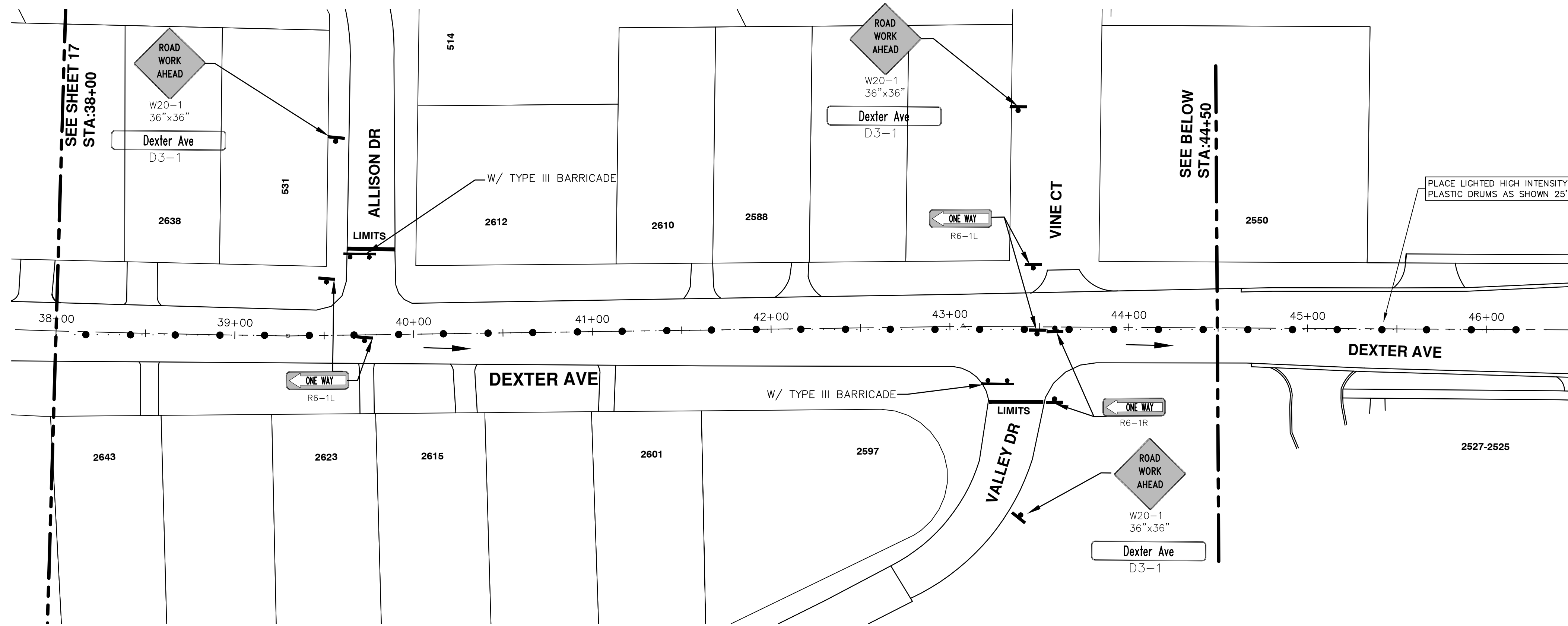
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
DEXTER AVENUE
TRAFFIC CONTROL

SCALE PLAN: #####
DRAWING No.
2016004-17

SHEET No.


17 OF 97

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 DEXTER AVENUE
 TRAFFIC CONTROL

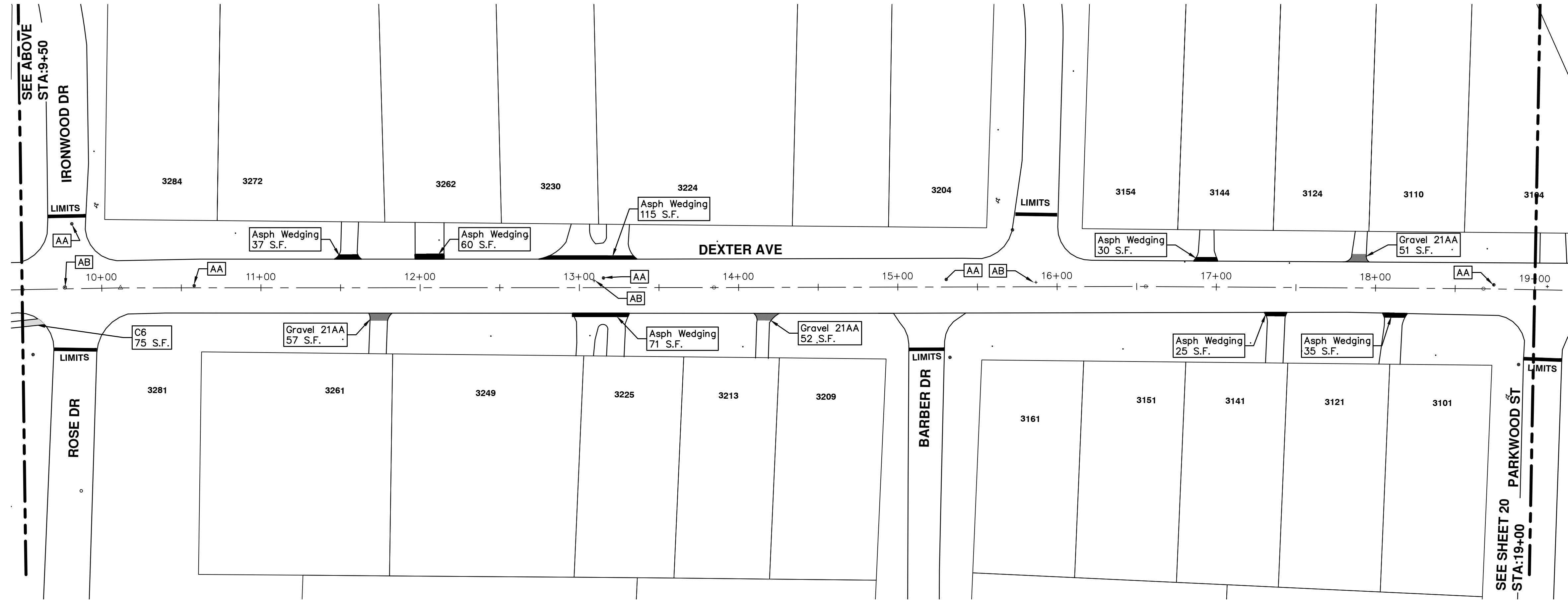
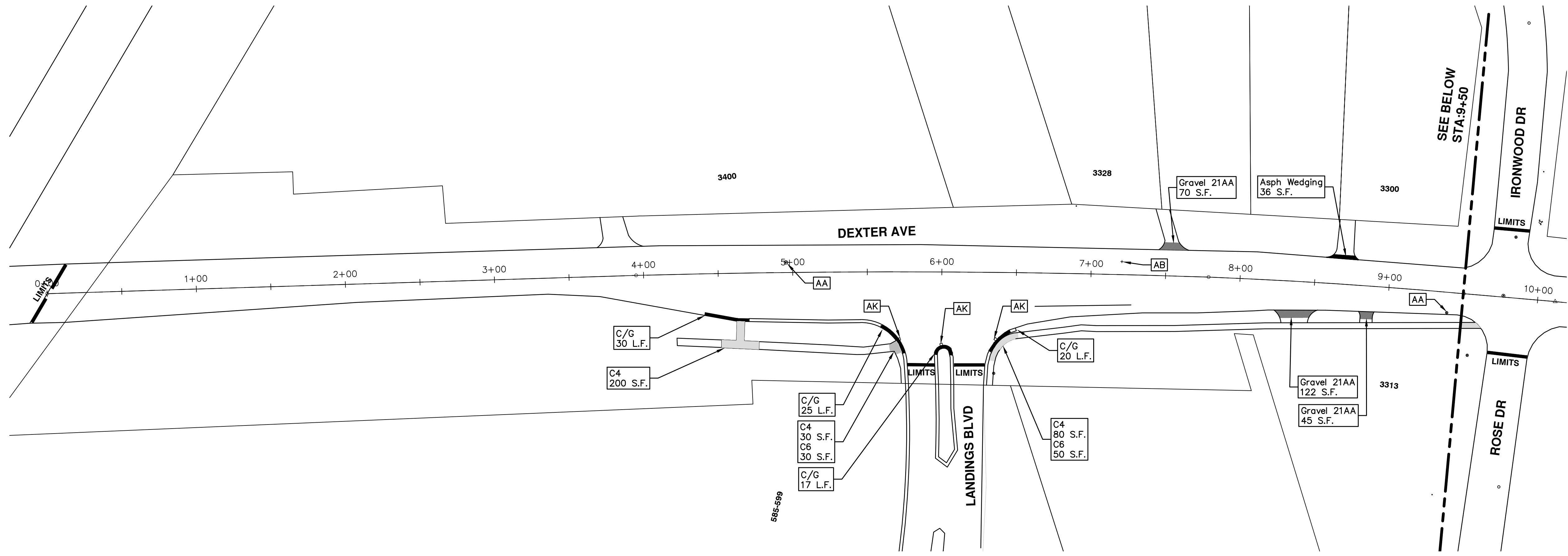
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 DRAWING No. 2016004-18
 SHEET No. 18 OF 97



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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	3-7-2016	ADDENDUM #1	DAD	DAD
00	2-22-2016	BID SET	GS AH JK	DAD

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00	BID SET	2-22-2016	GS AH JK	DAD

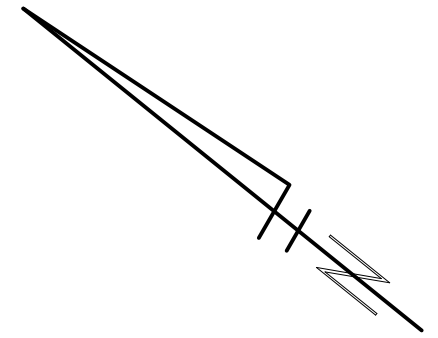
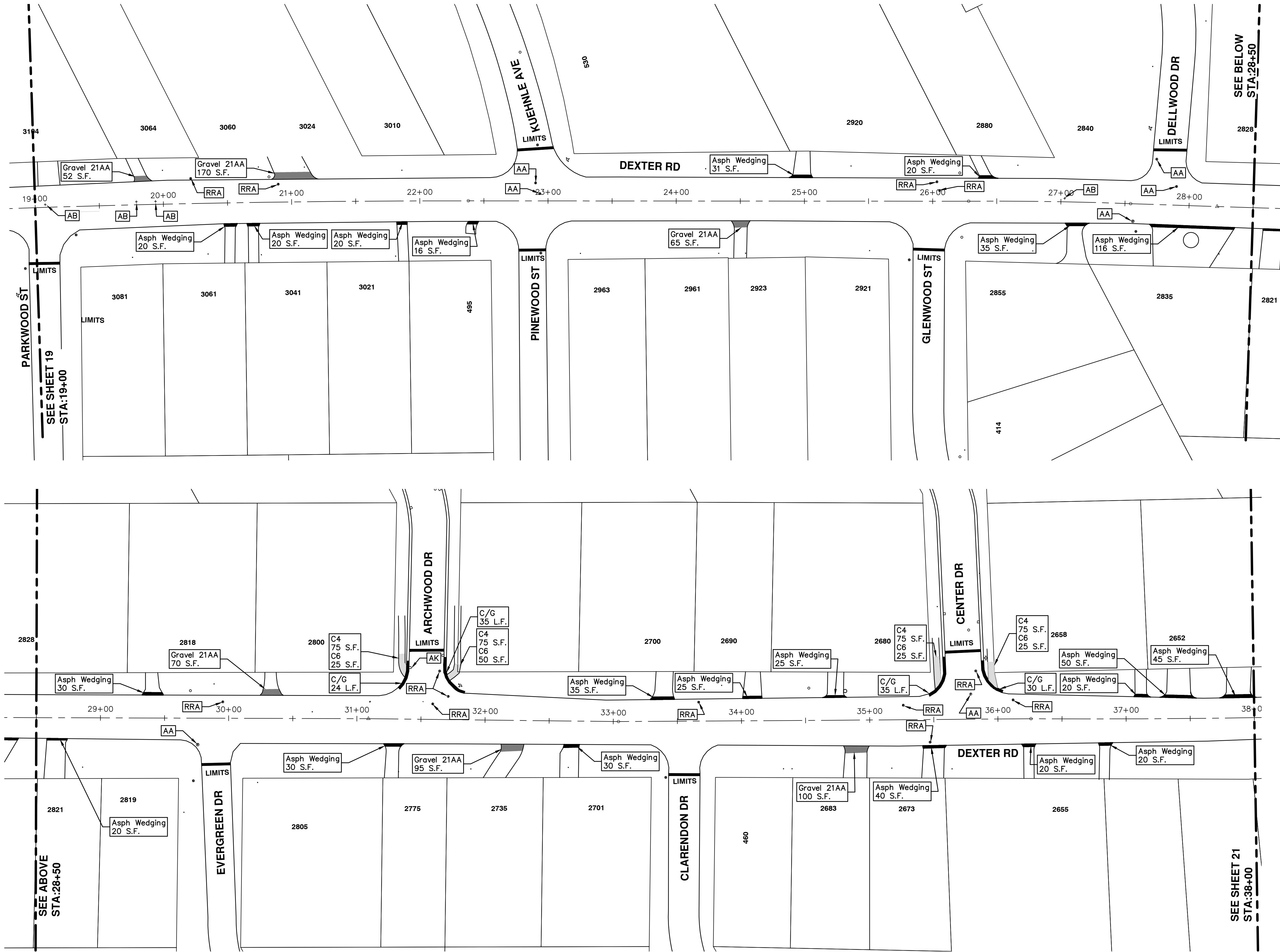
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
DEXTER AVENUE
RESURFACING

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-19

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STREET RESURFACING - 2016
DEXTER AVENUE
RESURFACING

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-20

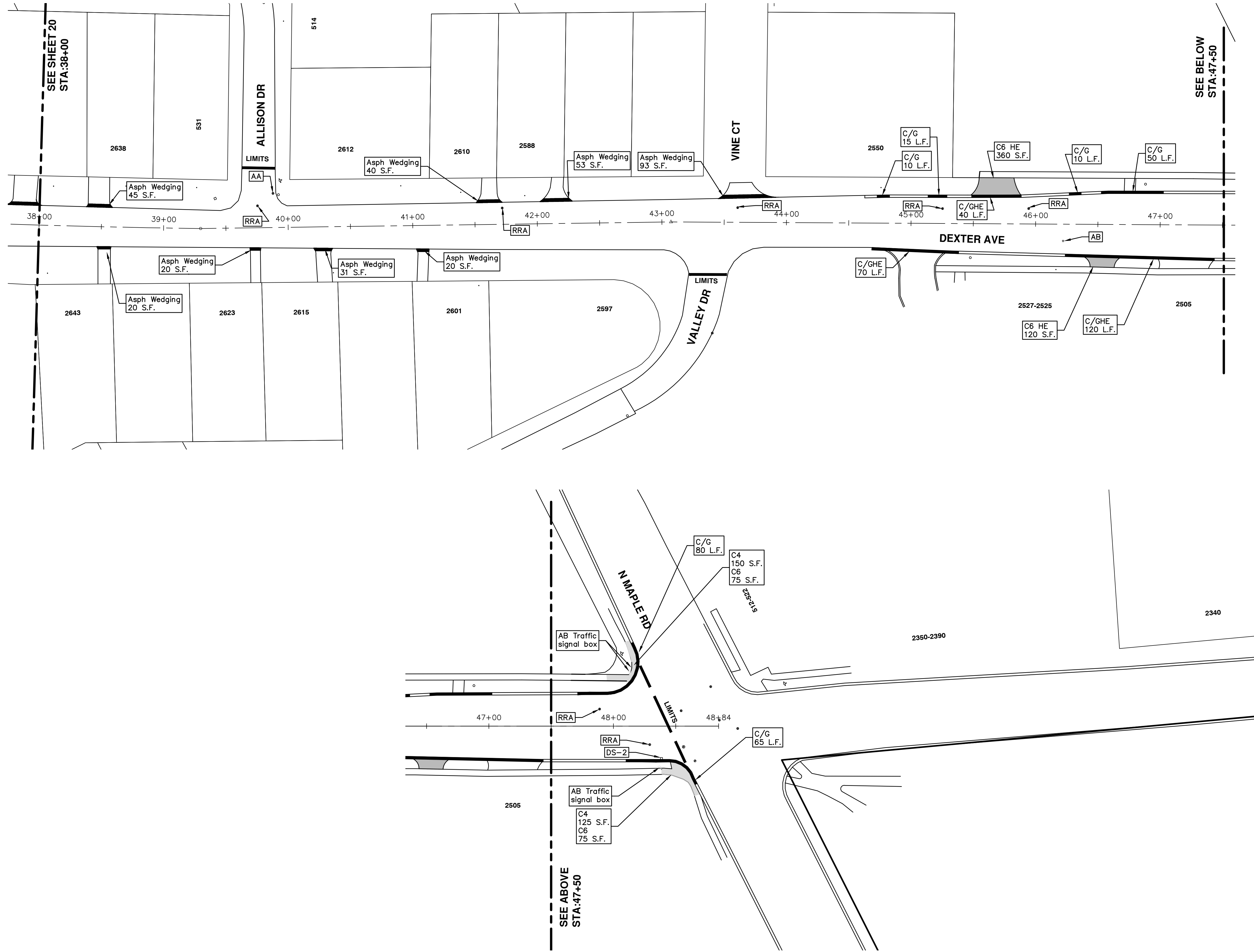
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01	ADDENDUM #1	3-7-2016	DAD	DAD
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CITY OF ANN ARBOR MICHIGAN

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STREET RESURFACING - 2016
 DEXTER AVENUE
 RESURFACING

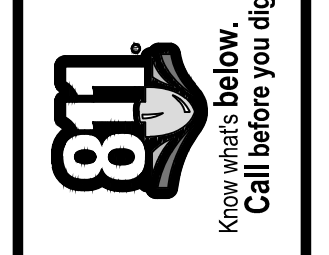
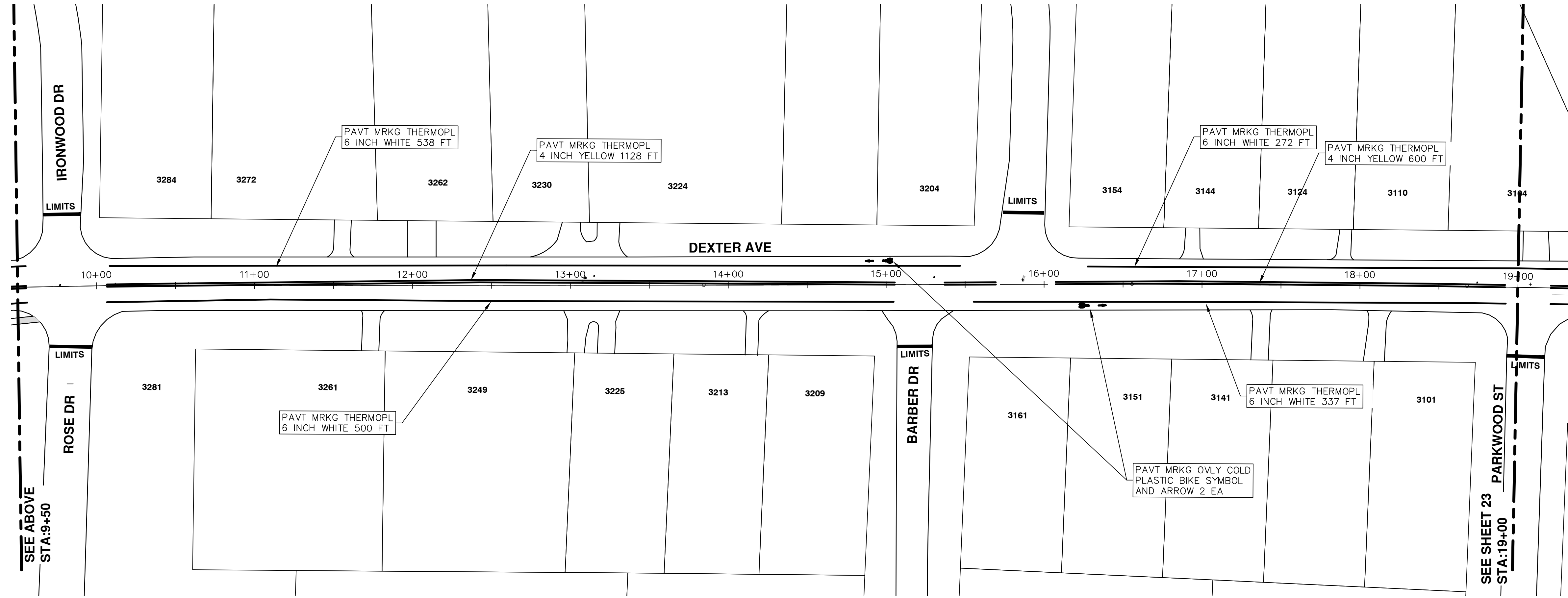
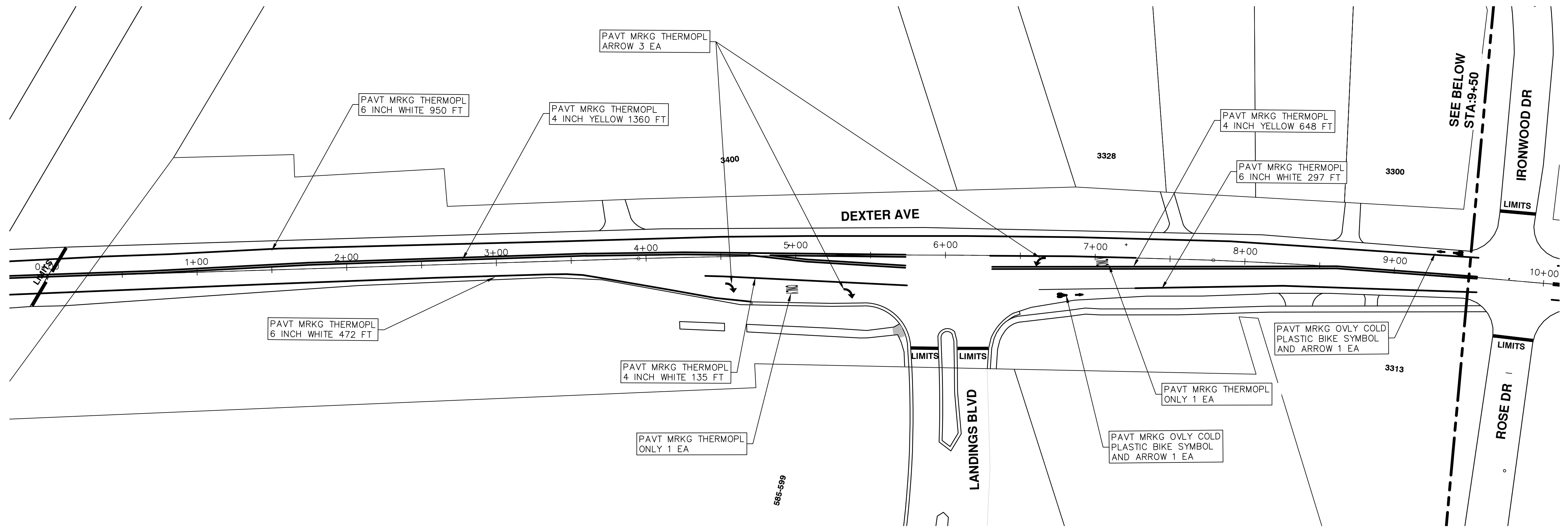
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	2-22-2016	GS AH JK	DAD

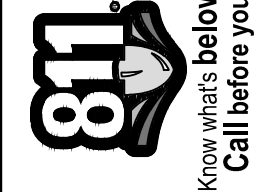
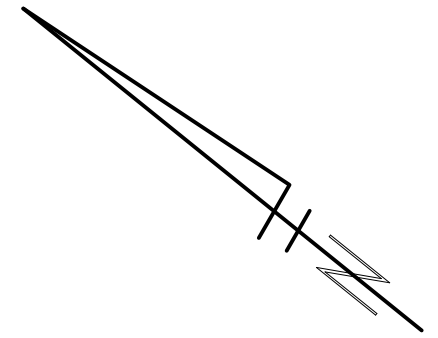
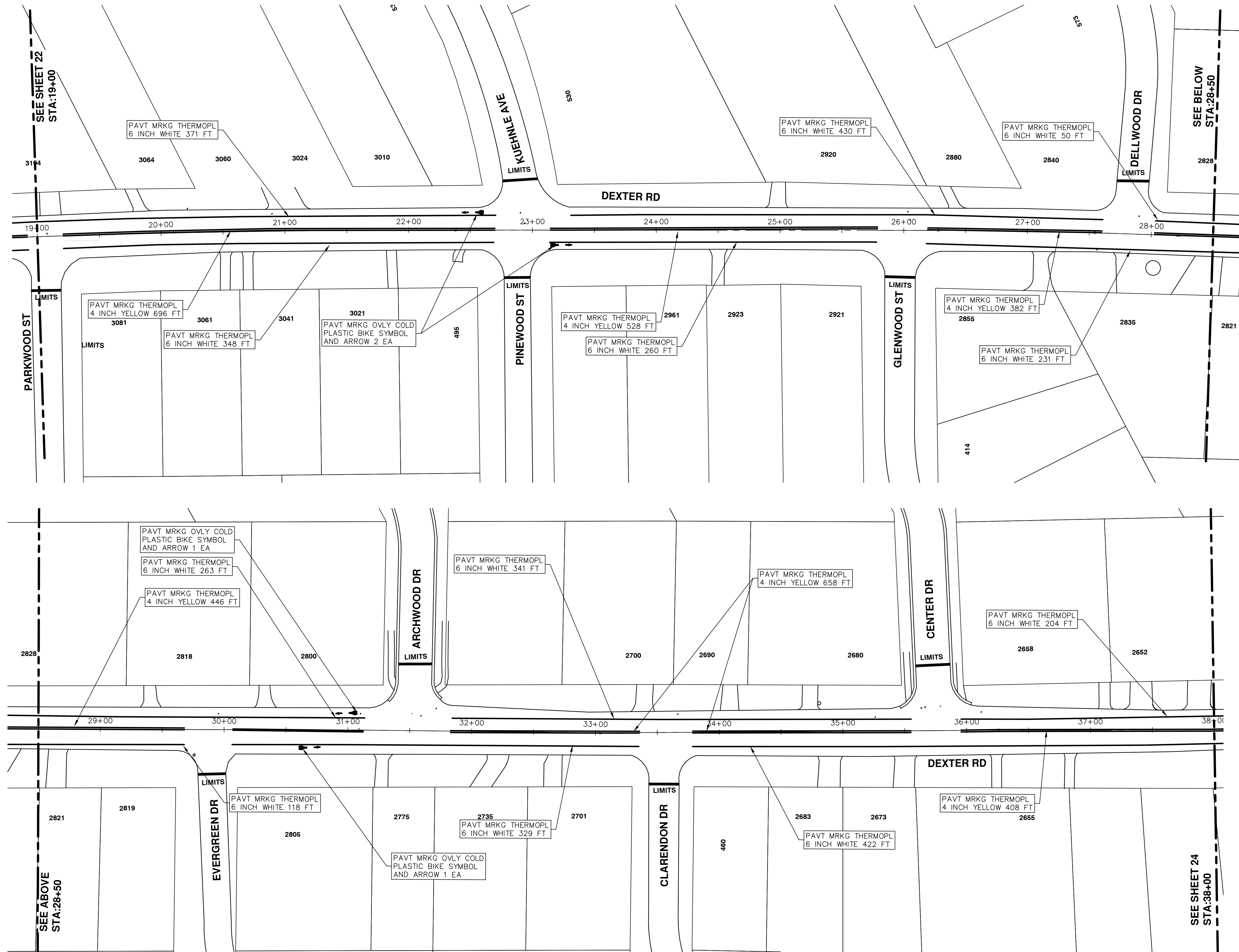
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
DEXTER AVENUE
PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-22
SHEET No. 22 OF 97

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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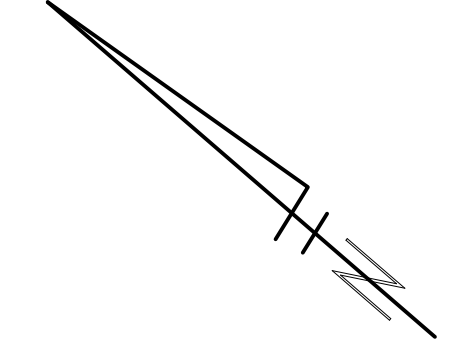
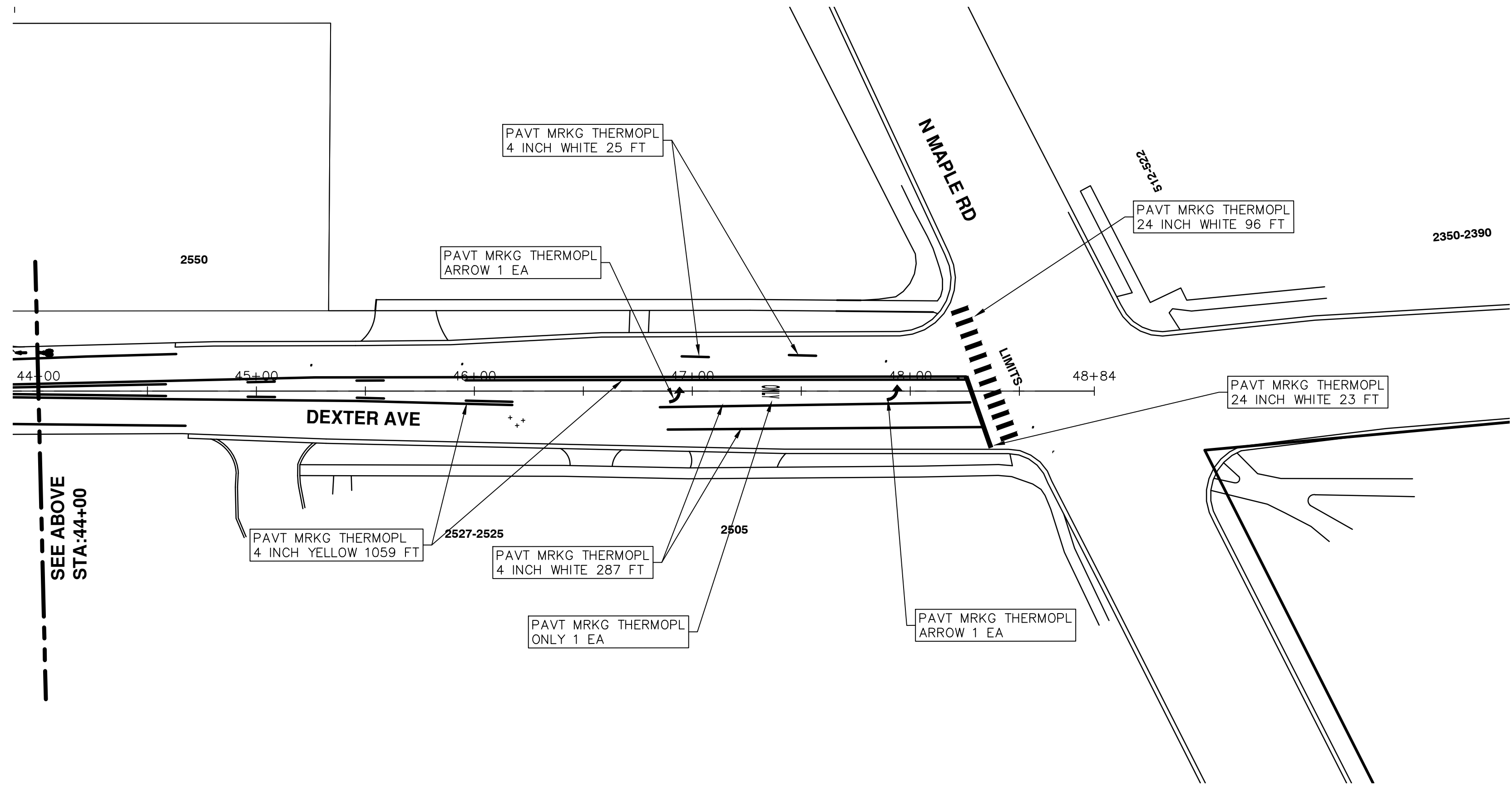
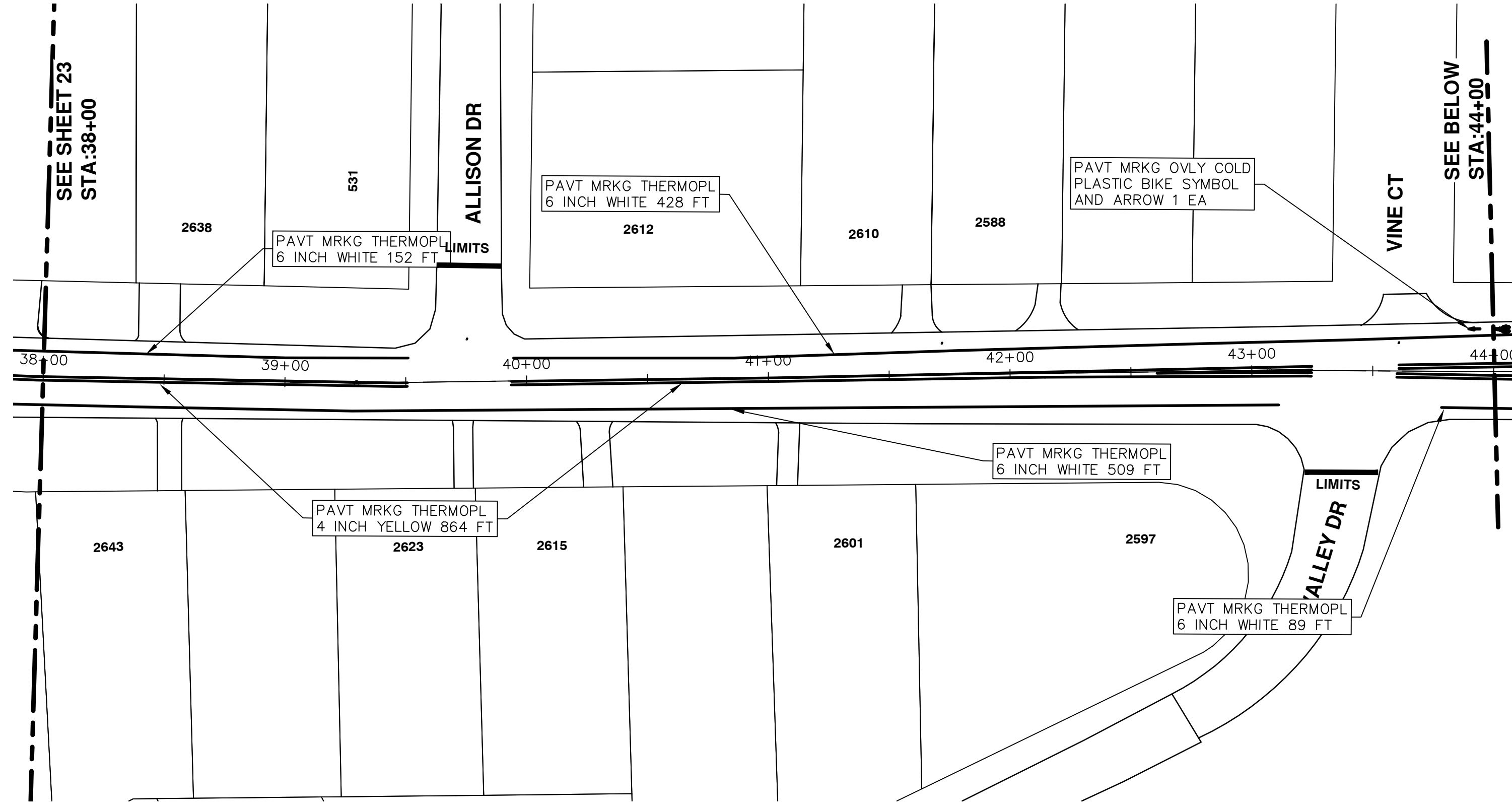
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
DEXTER AVENUE
PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-23

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		PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR STREET RESURFACING - 2016 DEXTER AVENUE PAVEMENT MARKINGS	
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-1667 www.a2gov.org		SCALE PLAN: 1" = 40' DRAWING No. 2016004-24	
REV.	DESCRIPTION	DATE	DRAWN / CHECKED
01	ADDENDUM #1	3-7-2016	DAD / DAD
00	BID SET	2-22-2016	SS AH JK / DAD



CITY OF ANN ARBOR PROJECT MANAGEMENT STREET RESURFACING - 2016 LOCATION: DHU VARREN ROAD

ITB No. 4422 FILE No. 2016004



S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-DHU VARREN RD.dwg Dwg Created: 24-Nov-15 - _a2 standard bw.stb - Plot Date: 7-Mar-16

Item Code	Item Description	Units	Quantity
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Lft	190.000
2057011	Grading, Sidewalk	Syd	17.000
2057011	Grading, Sidewalk Ramp	Syd	45.000
2057021	Subgrade Undercutting, Type IIA	Cyd	942.000
2087050	Erosion Control, Inlet Filter	Ea	9.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	20.000
4037050	Dr Structure, Point	Ea	1.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	19.000
5010003	Cold Milling HMA Surface	Ton	826.000
5010005	HMA Surface, Rem	Syd	22.000
5010057	HMA, 5E3	Ton	798.000
5010061	HMA, Approach	Ton	28.000
6027021	Flowable Fill	Cyd	7.037
8027001	Curb and Gutter, Conc	Lft	196.000
8037001	Detectable Warning Surface, Modified	Ft	40.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	400.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	150.000
8110049	Pav Mrkg, Only Cold Plastic, Direction Arrow Sym, Bike	Ea	4.000
8110058	Pav Mrkg, Only Cold Plastic, Bike, Small Sym	Ea	4.000
8110154	Pav Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	5,454.000
8110155	Pav Mrkg, Sprayable Thermopl, 6 inch, White	Ft	4,697.000
8110197	Pav Mrkg, Thermopl, 6 inch, Crosswalk	Ft	152.000
8110218	Pav Mrkg, Thermopl, 24 inch, Stop Bar	Ft	64.000
8117001	Pav Mrkg, Thermopl, 24 inch, Crosswalk	Ft	104.000
8117050	Pav Mrkg, Thermopl, Railroad Sym	Ea	1.000
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
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	105.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	105.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	1.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	1.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	313.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	313.500
8127050	No Parking Sign	Ea	37.000
8167011	Slope Restoration	Syd	70.000
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 •_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
CHE	•_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 •_Dr Structure, Rem
DSDI	•_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 I	•_Plastic Drum, High Intensity, Lighted, Furn •_Plastic Drum, High Intensity, Lighted, Oper
TYPE II	•_Barricade, Type III, High Intensity, Double Sided, Lighted, Furn •_Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊕	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊕	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊕	MONUMENT BOX
▬	REMOVE AND REPLACE CONC. SIDEWALK
▬	PLACE CONCRETE SIDEWALK
▬	REMOVE & REPLACE CONC. CURB & GUTTER
▬	CONSTRUCTION LIMITS
▬	6" WRAPPED UNDERDRAIN
▬	REMOVE CONCRETE SIDEWALK
▬	SUBGRADE UNDERCUT

Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sqft)	Total
15.0	D3-1	Street Name Sign	4.000	60.000
1.0	M4-10	Detour Arrow Sign	6.000	6.000
1.0	M4-8a	End Detour Sign	3.000	3.000
5.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	25.000
0.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	0.000
4.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	20.000
0.0	R11-2	Road Closed Sign ("Road Closed")	10.000	0.000
0.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	0.000
1.0	R3-8	Mandatory Movement Lane Control Sign (Left or Right Only)	7.500	7.500
4.0	R6-1 L	One Way (Left) Sign	3.000	12.000
4.0	R6-1 R	One Way (Right) Sign	3.000	12.000
3.0	SP-1	Special Sign	20.000	60.000
7.0	W20-1	Road Work Ahead Sign	9.000	63.000
3.0	W20-2	Detour Ahead Sign	9.000	27.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
		TOTAL		313.500

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7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
8. GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 1.5 INCHES OF TOP COURSE HMA MIX AS SPECIFIED OR DIRECTED BY THE ENGINEER.
11. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. REMOVE ALL 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 THIS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

STREET RESURFACING - 2016

DHU VARREN ROAD

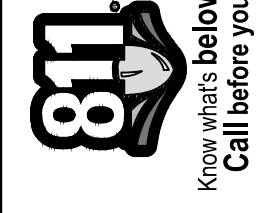
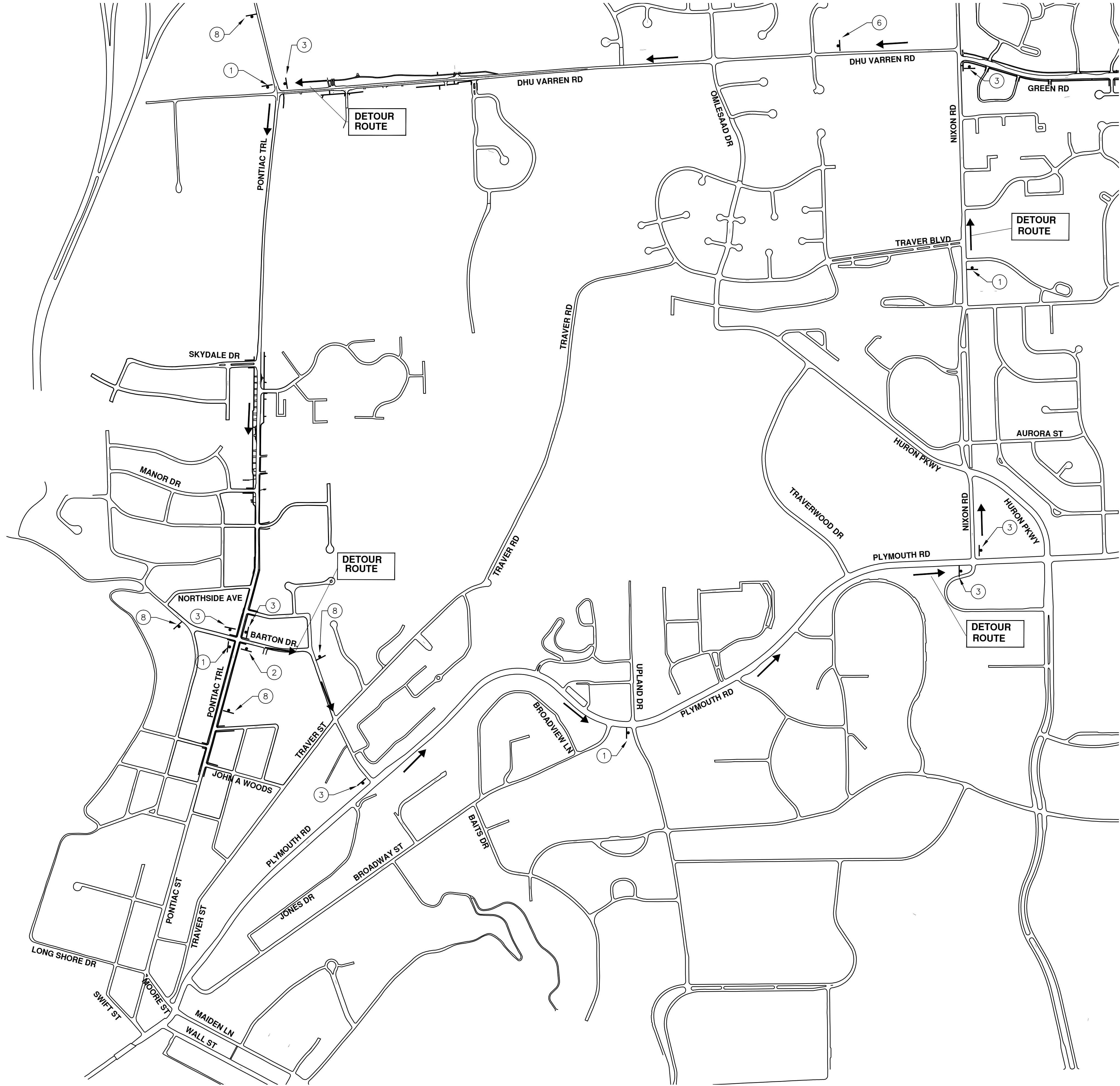
PROJECT DESCRIPTION

DRAWING No. 2016004-25

SHEET No. 25 OF 97

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TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
①		D3-1 M4-9S 30x24
②		D3-1 M4-9R 30x24
③		D3-1 M4-9L 30x24
⑥		D3-1 M4-8a 24x18
⑧		SPECIAL 48x60



CITY OF ANN ARBOR
PUBLIC SERVICES
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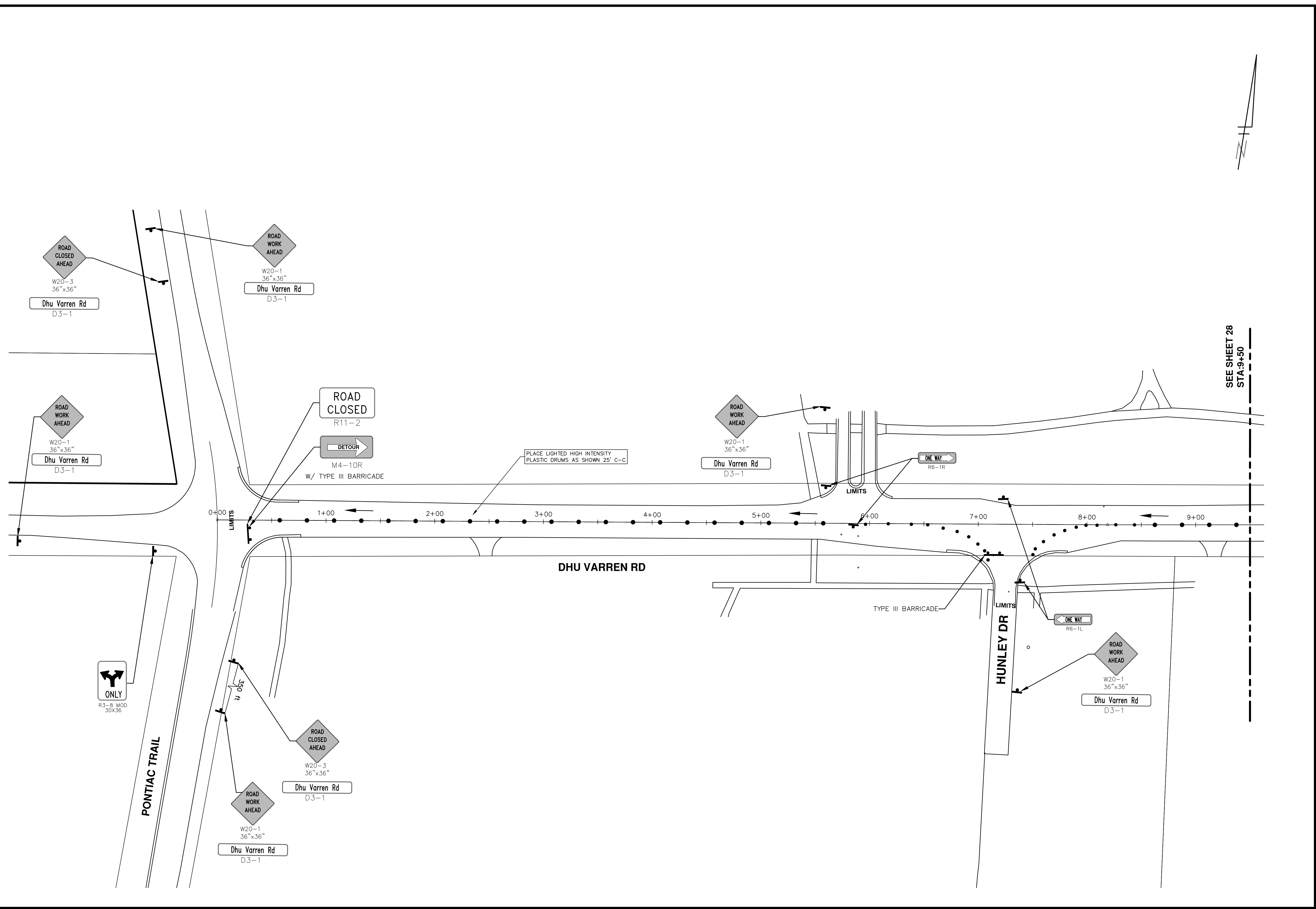


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
DHU VARREN ROAD
DETOUR

SCALE: N.T.S.
DRAWING No. 2016004-26

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		DRAWN
		CHECKED

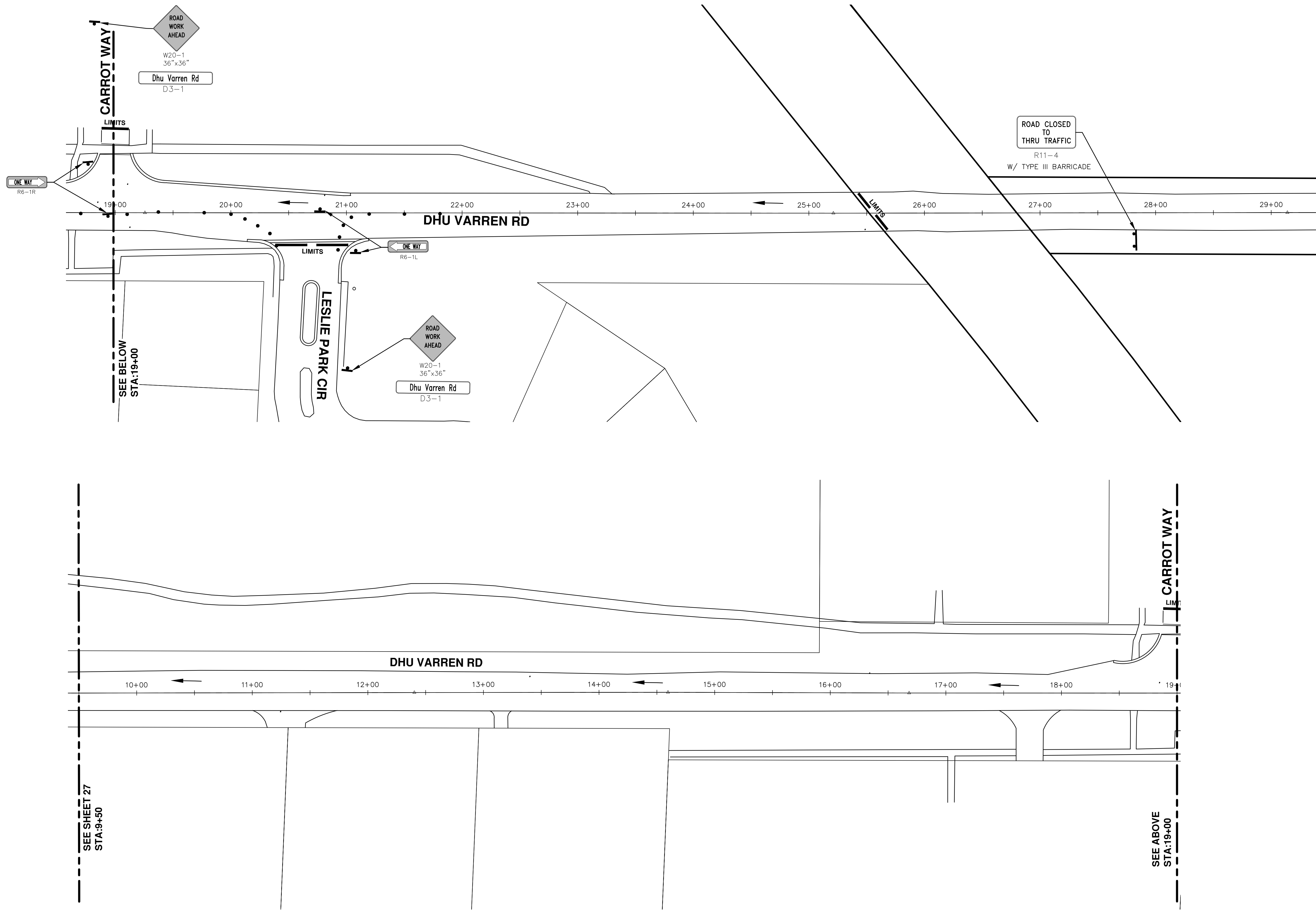
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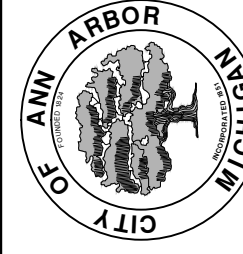
SEE SHEET 28
STA: 9+50

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-1667 www.a2gov.org	ADDENDUM #1 BID SET DATE
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR STREET RESURFACING - 2016 DHU VARREN ROAD TRAFFIC CONTROL	REV.
SCALE PLAN: 1" = 40' DRAWING No. 2016004-27	SHEET No. 27 OF 97

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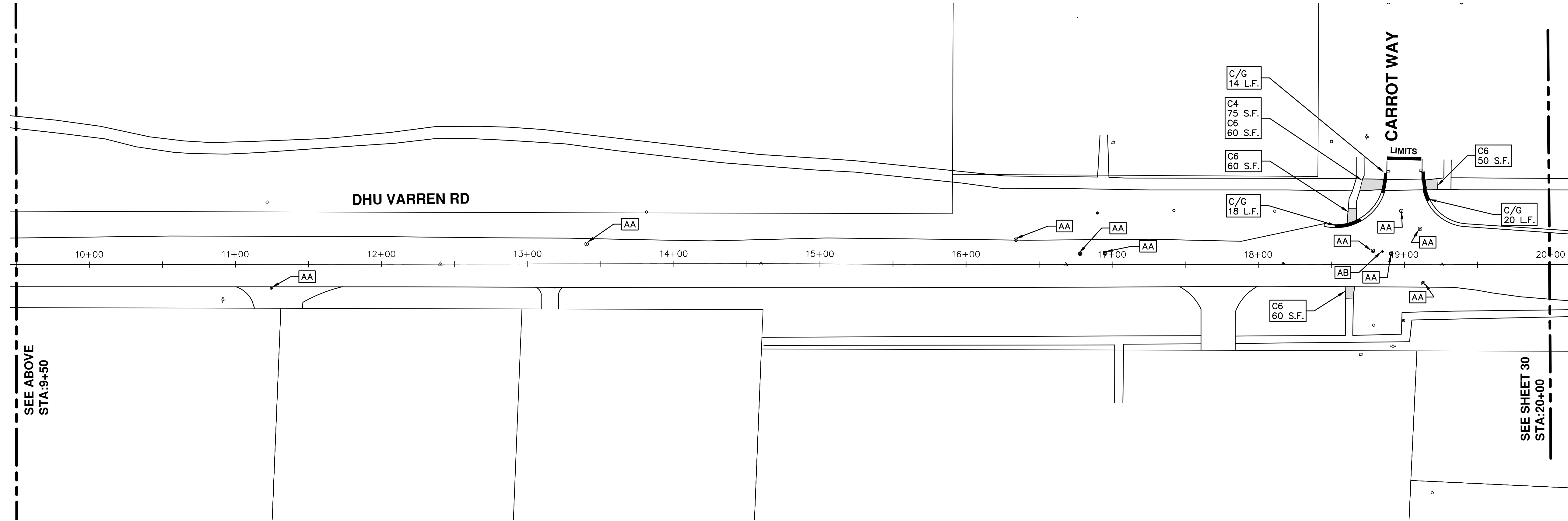
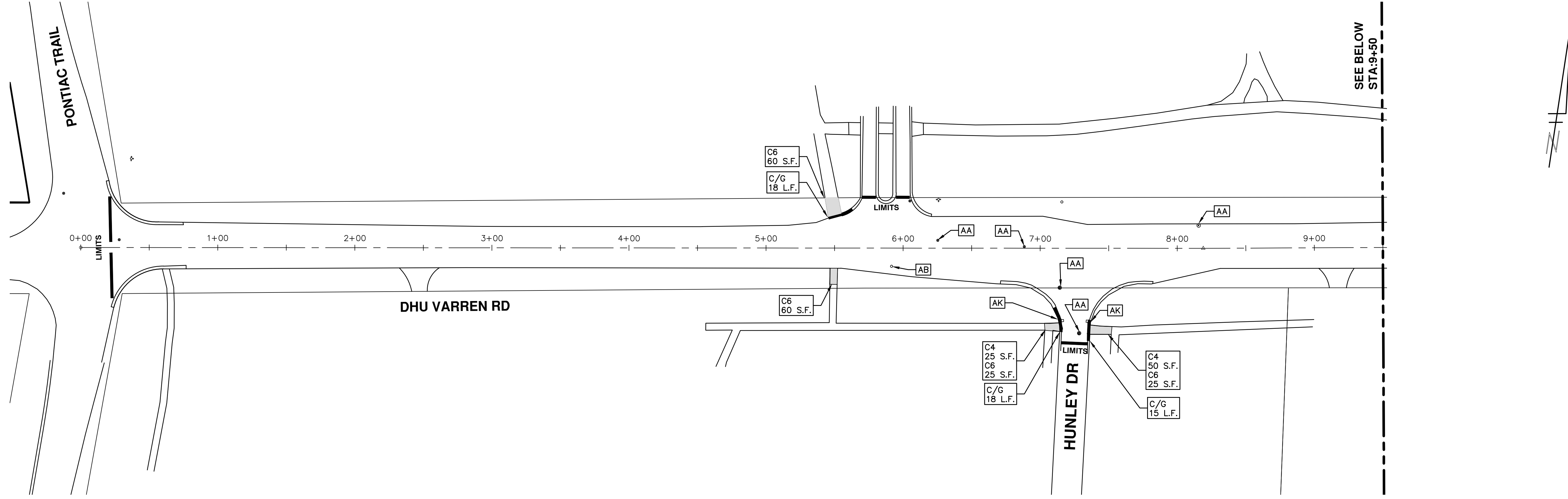


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
DHU VARREN ROAD
TRAFFIC CONTROL

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-28

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	2-22-2016	GS AH JK	DAD

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SEE ABOVE
STA: 9+50

SEE SHEET 30
STA: 20+00

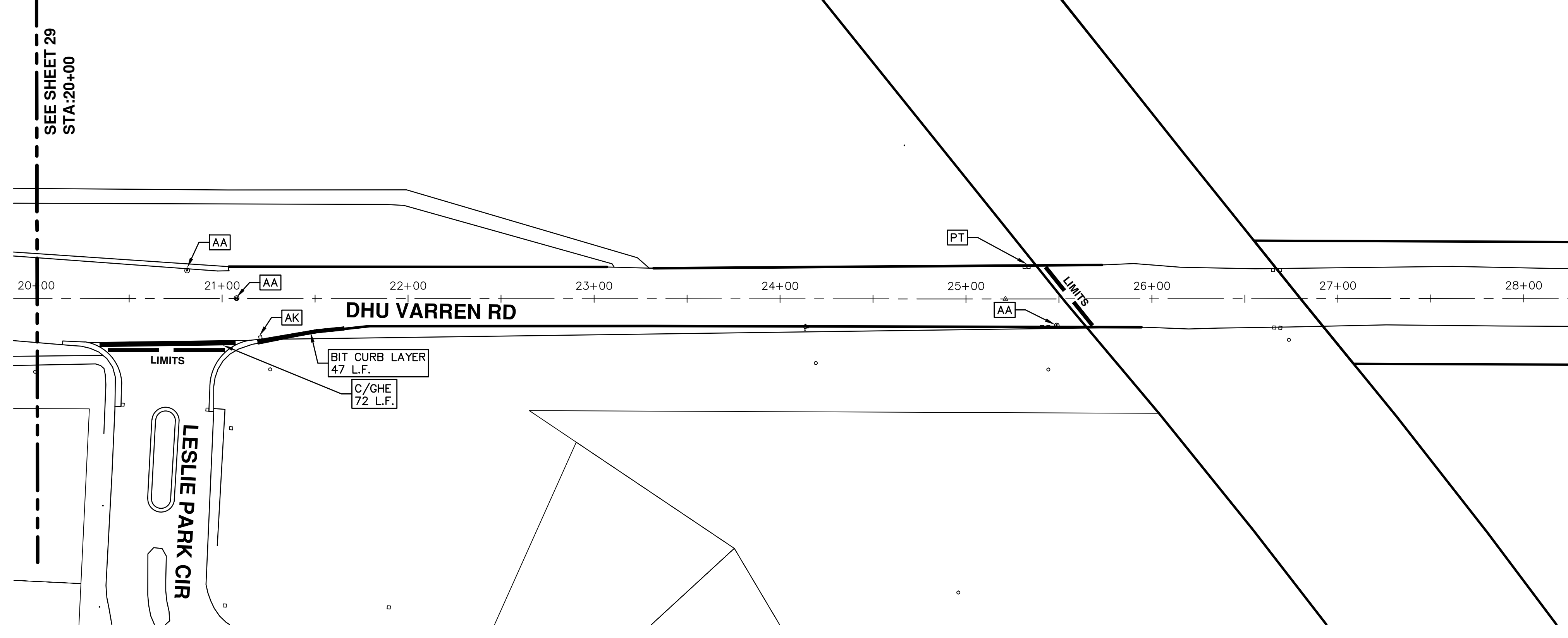
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
DHU VARREN ROAD
RESURFACING

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-29

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	2-22-2016	GS AH JK	DAD

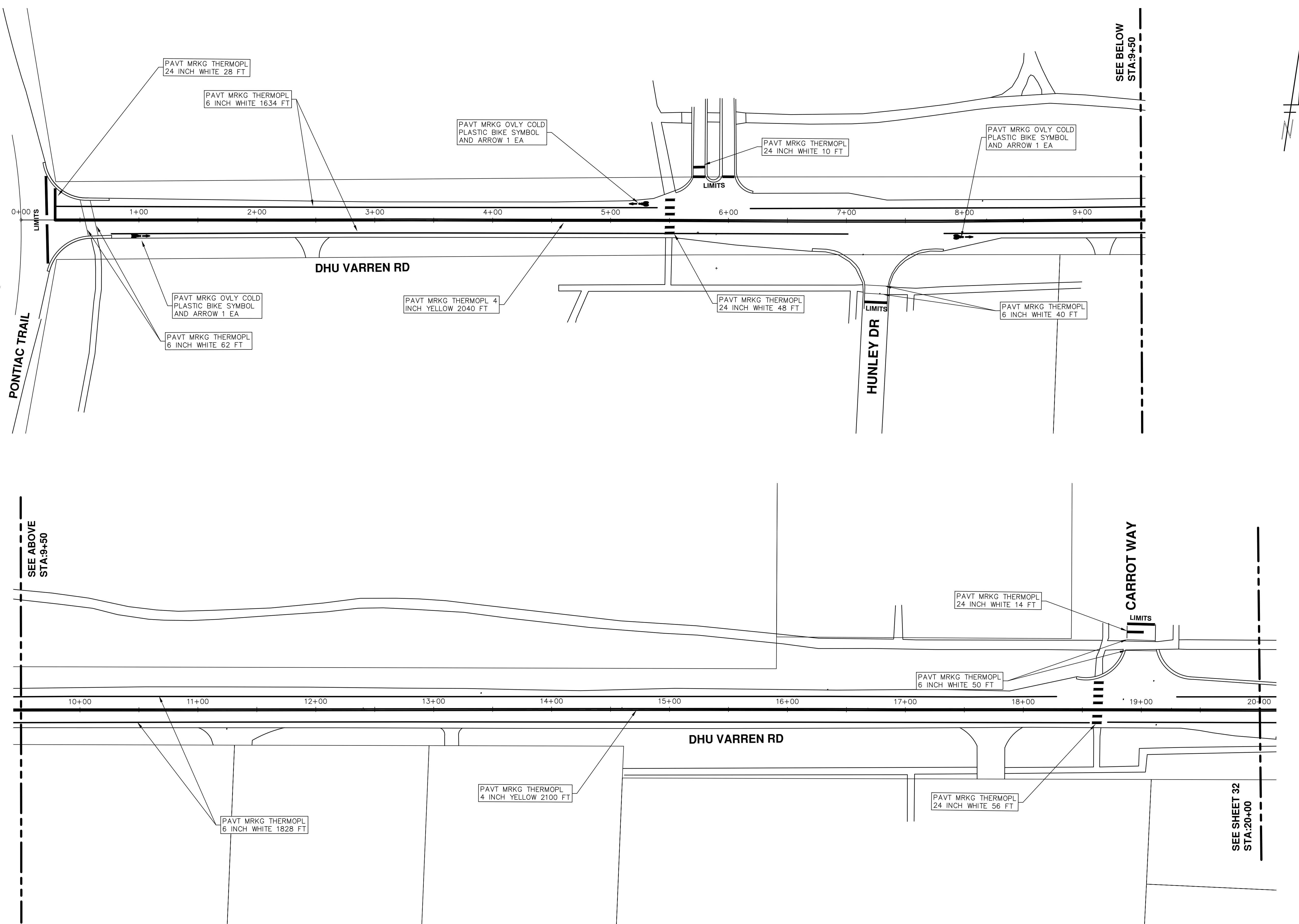
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	SS AH JK	DAD

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

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 DHU VARREN ROAD
 PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'

DRAWING No. 2016004-31

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	GS AH JK	DAD

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CITY OF ANN ARBOR MICHIGAN



CITY OF ANN ARBOR PROJECT MANAGEMENT STREET RESURFACING - 2016 LOCATION: GREEN ROAD

ITB No. 4422 FILE No. 2016004



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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	Lft	1,247.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	98.000
2057011	Grading, Sidewalk	Syd	56.000
2057011	Grading, Sidewalk Ramp	Syd	42.000
2057021	Subgrade Undercutting, Type IIA	Cyd	1,689.000
2067050	Erosion Control, Inlet Filter	Ea	23.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	20.000
4030010	Dr Structure Cover, Type B	Ea	3.000
4030050	Dr Structure Cover, Type K	Ea	6.000
4030200	Dr Structure, 24 inch dia	Ea	2.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	21.000
4037050	Dr Structure, Point	Ea	4.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	17.000
5010003	Cold Milling HMA Surface	Ton	3,692.000
5010005	HMA Surface, Rem	Syd	427.000
5010051	HMA, 4E3	Ton	1,909.000
5010057	HMA, 9E3	Ton	1,431.000
5010061	HMA, Approach	Ton	352.000
6027021	Flowable Fill	Cyd	46.185
8027001	Curb and Gutter, Conc	Lft	1,250.000
8037001	Detectable Warning Surface, Modified	Ft	35.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	375.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	500.000
8110049	Pav Mrlg, Ovy Cold Plastic, Direction Arrow Sym, Bike	Ea	8.000
8110058	Pav Mrlg, Ovy Cold Plastic, Bike, Small Sym	Ea	8.000
8110153	Pav Mrlg, Sprayable Thermopl, 4 inch, White	Ft	1,108.000
8110154	Pav Mrlg, Sprayable Thermopl, 4 inch, Yellow	Ft	10,421.000
8110155	Pav Mrlg, Sprayable Thermopl, 6 inch, White	Ft	4,259.000
8110197	Pav Mrlg, Thermopl, 6 inch, Crosswalk	Ft	235.000
8110212	Pav Mrlg, Thermopl, 12 inch, Cross Hatching, White	Ft	225.000
8110218	Pav Mrlg, Thermopl, 24 inch, Stop Bar	Ft	56.000
8117001	Pav Mrlg, Thermopl, 24 inch, Crosswalk	Ft	296.000
8117001	Pav Mrlg, Thermopl, Lt Turn Arrow Sym	Ea	3.000
8117050	Pav Mrlg, Thermopl, Only	Ea	3.000
8117050	Pav Mrlg, Thermopl, Rt Turn Arrow Sym	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Fum	Ea	12.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	12.000
8120140	Lighted Arrow, Type C, Fum	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120260	Plastic Drum, High Intensity, Lighted, Fum	Ea	160.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	160.000
8120330	Sign, Portable, Changeable Message, Fum	Ea	2.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	2.000
8120350	Sign, Type B, Temp, Prismatic, Fum	Sft	338.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	338.500
8167011	Slope Restoration	Syd	458.000

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 •_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem •_Grading, Driveway Approach •_Grading, Sidewalk •_Grading, Sidewalk Ramp
CHE	•_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 •_Dr Structure, Rem
DSDI	•_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 I	•_Plastic Drum, High Intensity, Lighted, Fum •_Plastic Drum, High Intensity, Lighted, Oper
TYPE II	•_Barricade, Type III, High Intensity, Double Sided, Lighted, Fum •_Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊕	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊕	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
▬	REMOVE AND REPLACE CONC. SIDEWALK
▬	PLACE CONCRETE SIDEWALK
▬	REMOVE & REPLACE CONC. CURB & GUTTER
---	CONSTRUCTION LIMITS
---	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▬	SUBGRADE UNDERCUT

Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sqft)	Total
30.0	D3-1	Street Name Sign	4.000	120.000
1.0	M4-10R	Detour Arrow (Right) Sign	6.000	6.000
1.0	M4-8a	End Detour Sign	3.000	3.000
4.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	20.000
2.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	10.000
5.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	25.000
0.0	R11-2	Road Closed Sign ("Road Closed")	10.000	0.000
0.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	0.000
1.0	R3-1	Movement Prohibition Sign ("No Right Turn")	4.000	4.000
1.0	R3-2	Movement Prohibition Sign ("No Left Turn")	4.000	4.000
1.0	R3-8	Advance Intersection Lane Control Sign (Left/Right Turn Only)	7.500	7.500
8.0	R6-1L	One Way (Left) Sign	3.000	24.000
8.0	R6-1R	One Way (Right) Sign	3.000	24.000
5.0	SP-1	Special Sign	20.000	100.000
13.0	W20-1	Road Work Ahead Sign	9.000	117.000
2.0	W20-2	Detour Ahead Sign	9.000	18.000
3.0	W20-3	Road Closed Ahead Sign	9.000	27.000
1.0	W20-4	One Lane Road Sign ("One Lane Road Ahead")	9.000	9.000
		TOTAL		398.500

CONSTRUCTION METHOD AND SEQUENCING

1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
2. IMPLEMENT MAINTENANCE OF TRAFFIC, AND SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. REMOVE TO 3.5 INCHES OF EXISTING ROADWAY HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK AS DIRECTED BY THE ENGINEER.
7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
8. GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. PAVE 2.0 INCHES OF LEVELING COURSE HMA MIX (MAJOR STREETS) AS SPECIFIED OR DIRECTED BY THE ENGINEER.
10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
11. PAVE 1.5 INCHES OF TOP COURSE HMA MIX (MAJOR STREETS) AS SPECIFIED OR DIRECTED BY THE ENGINEER.
12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN UP AND FINAL RESTORATION.
14. REMOVE ALL TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.

NOTES

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

STREET RESURFACING - 2016

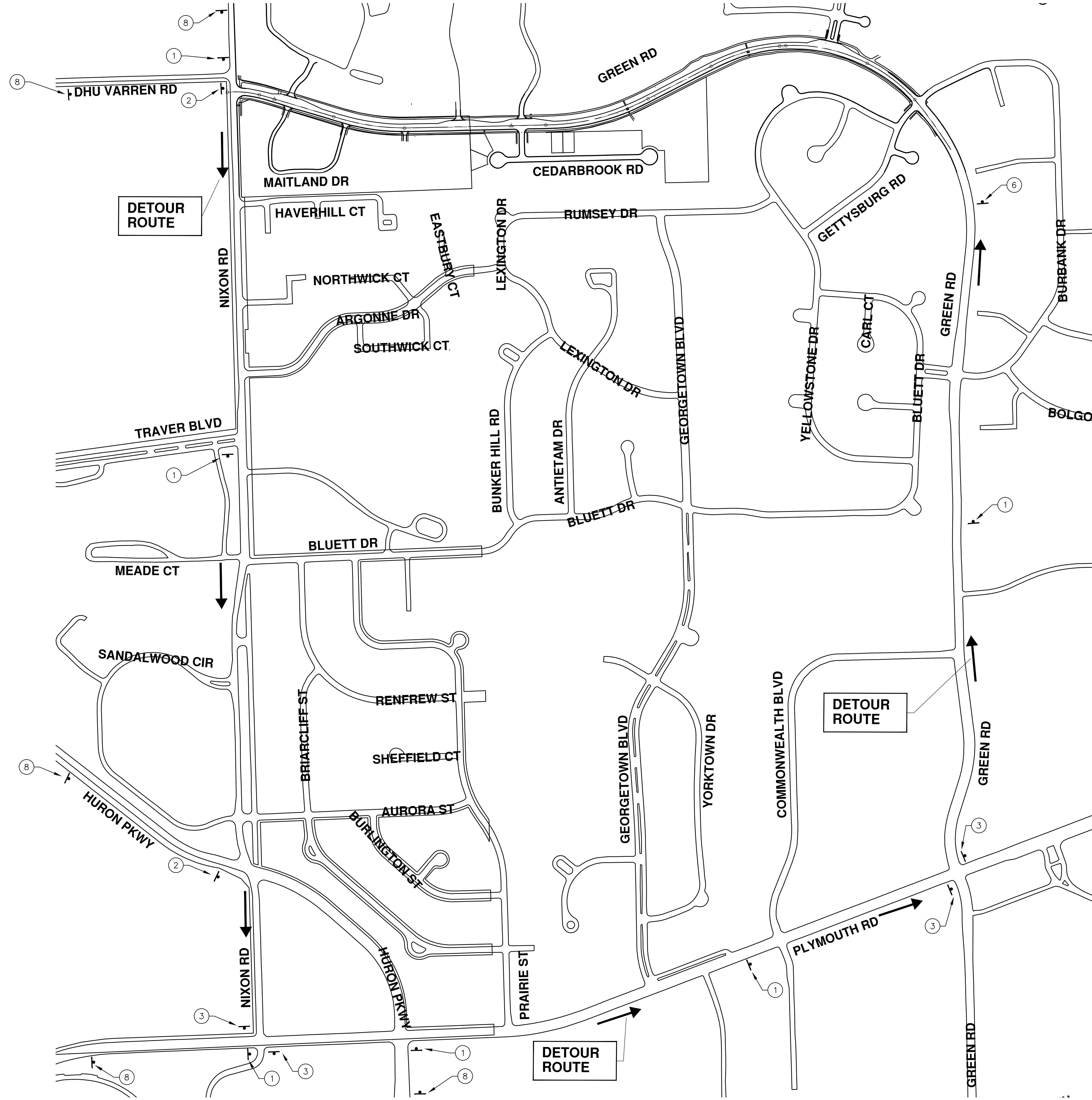
GREEN ROAD

PROJECT DESCRIPTION

DRAWING No. 2016004-33

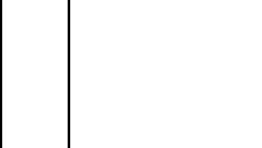
SHEET No. 33 OF 97

TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
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②		D3-1 M4-9R 30x24
③		D3-1 M4-9L 30x24
⑥		D3-1 M4-8a 24x18
⑧		SPECIAL 48x60



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	SS AH UK	DAD

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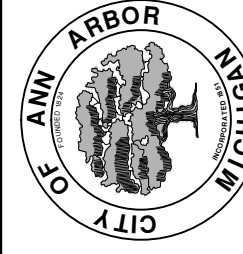
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 STREET RESURFACING - 2016
 GREEN ROAD
 DETOUR

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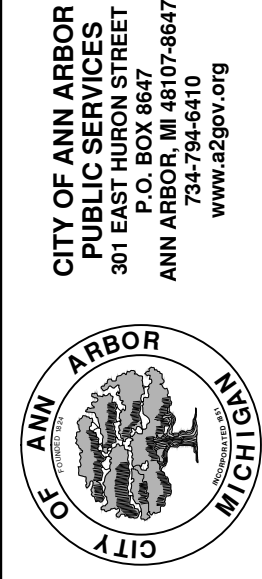
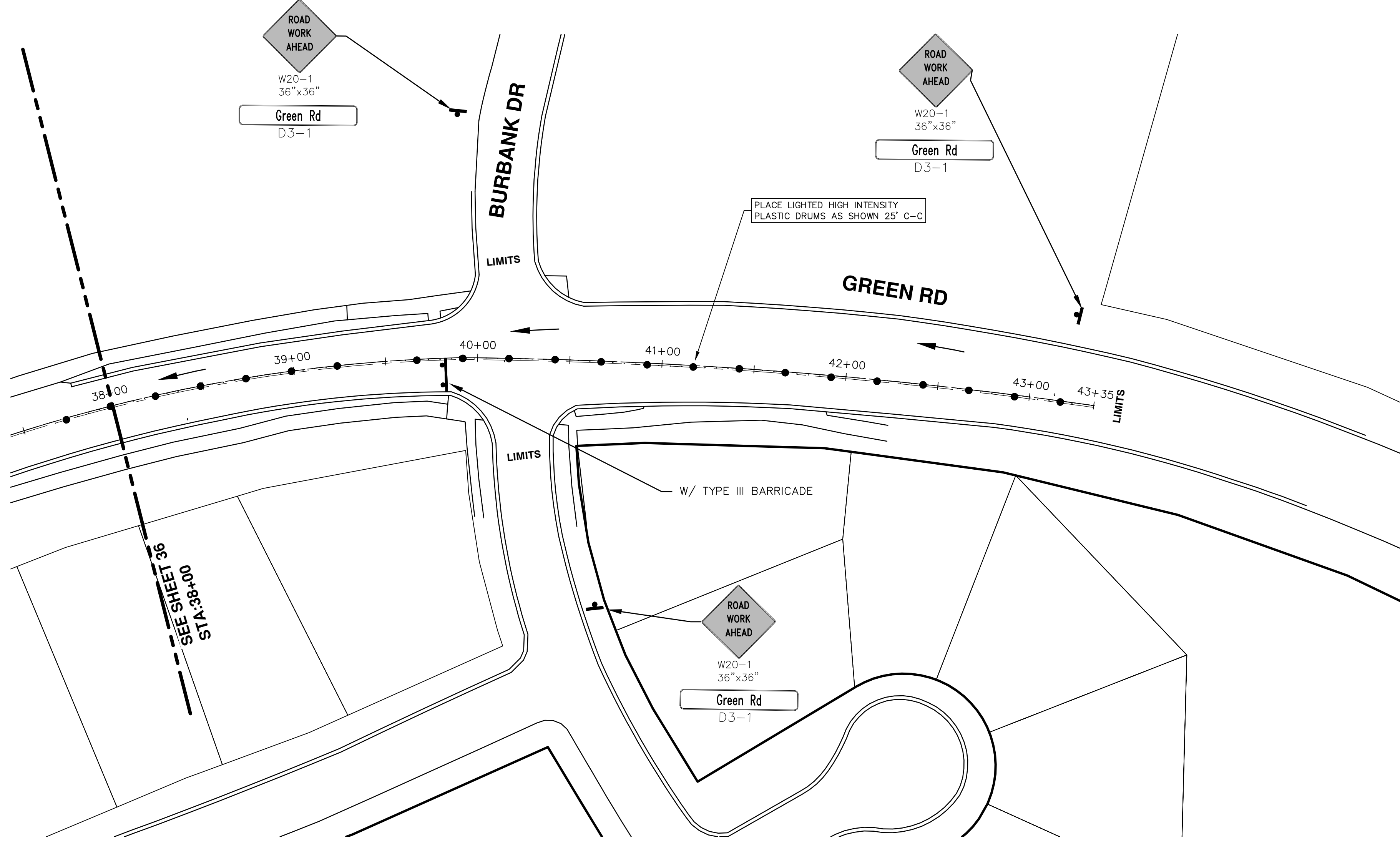
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	GS AH JK	DAD

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 GREEN ROAD
 TRAFFIC CONTROL

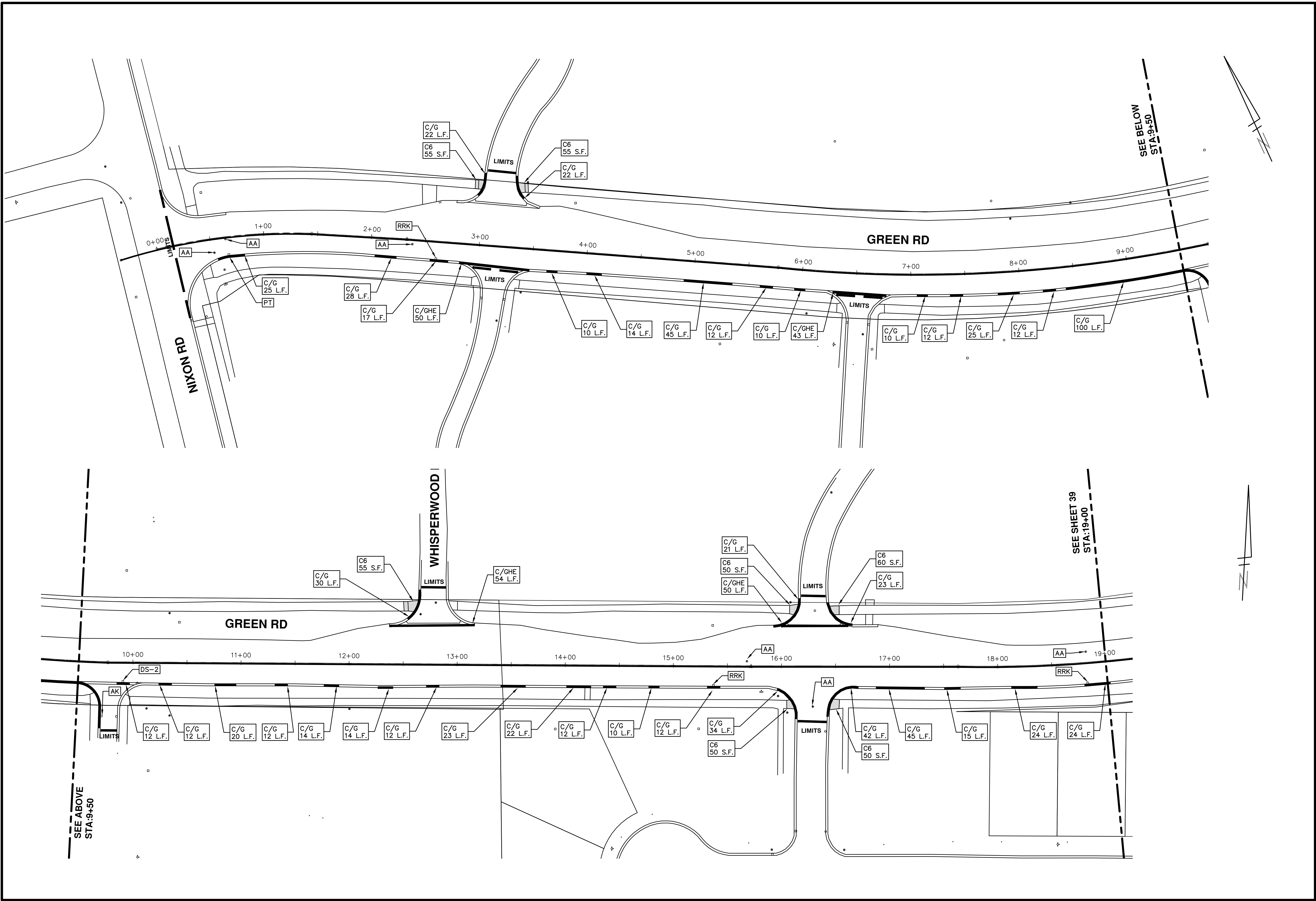
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 DRAWING No. 2016004-36



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	2-22-2016	GSS AH JK	DAD



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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 GREEN ROAD
 RESURFACING

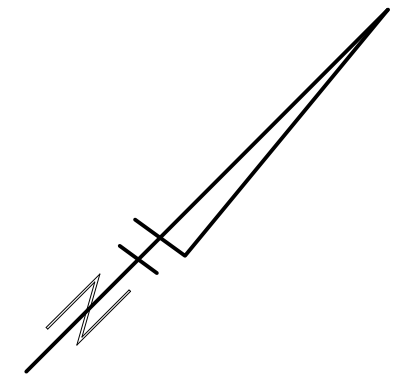
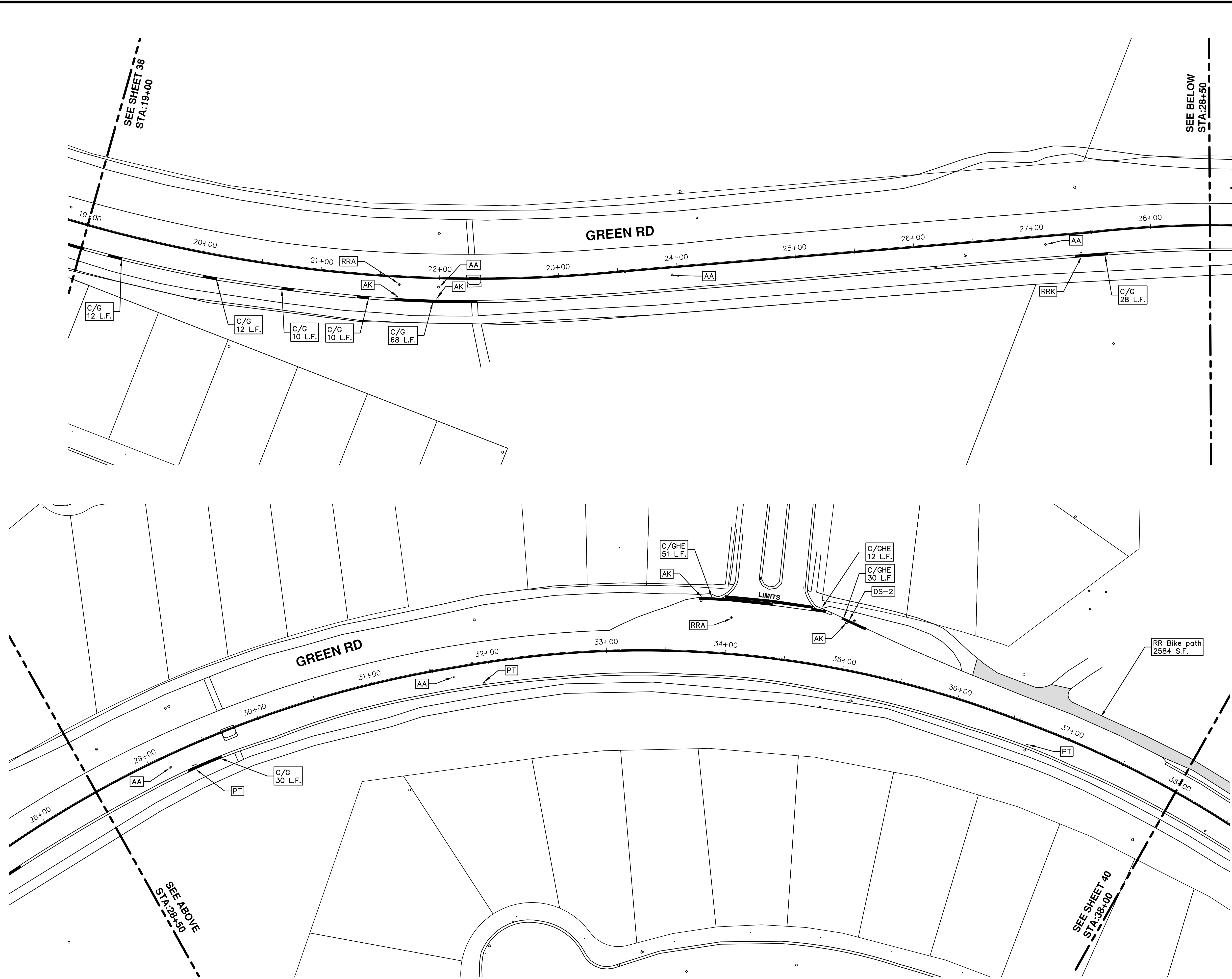
SCALE PLAN: 1" = 40'
 DRAWING No. 2016004-38

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

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 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-8647
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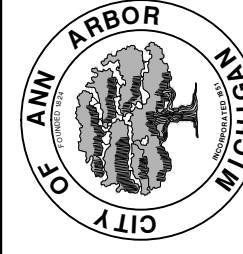
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00	BID SET	2-22-2016	GS AH JK	DAD

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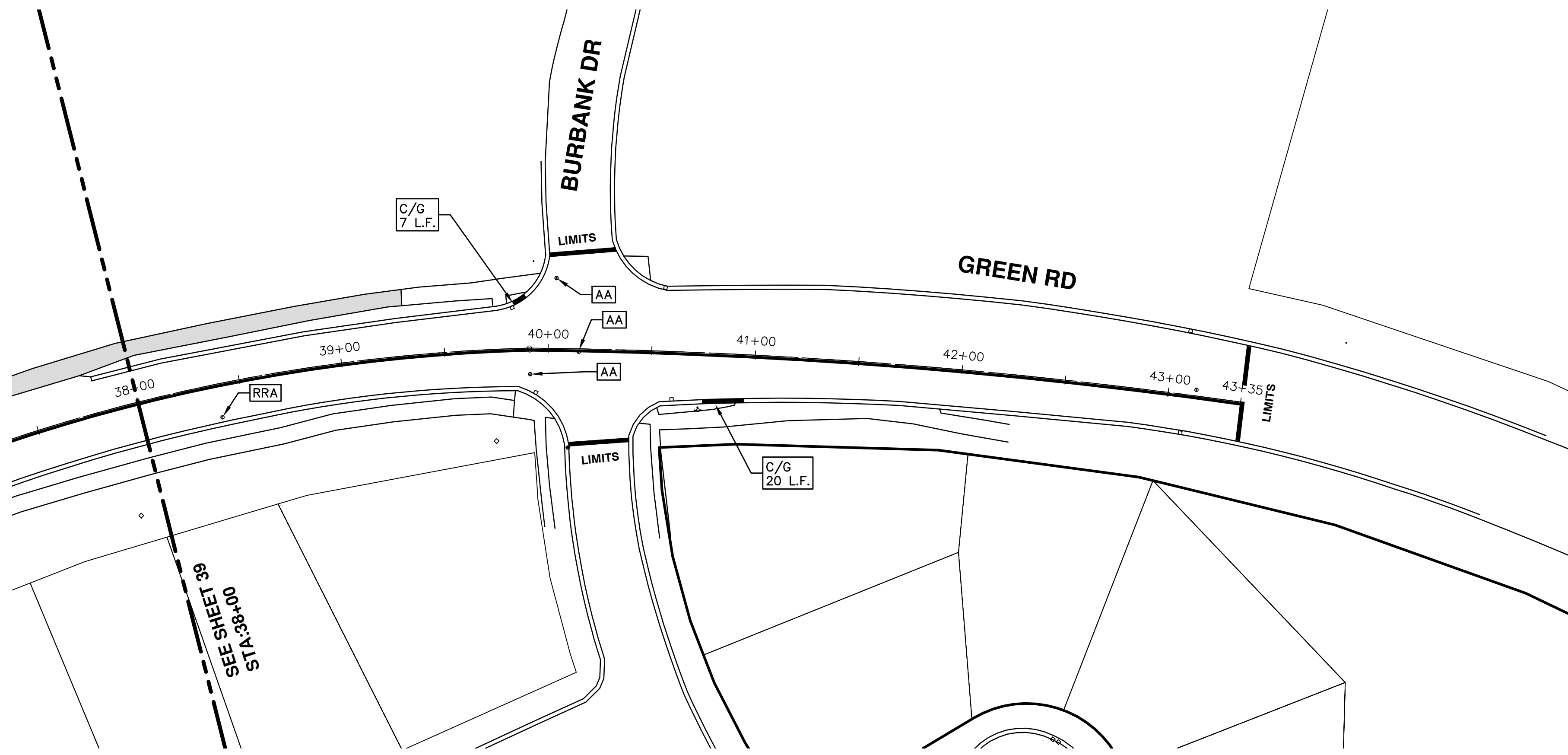
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
GREEN ROAD
RESURFACING

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-39

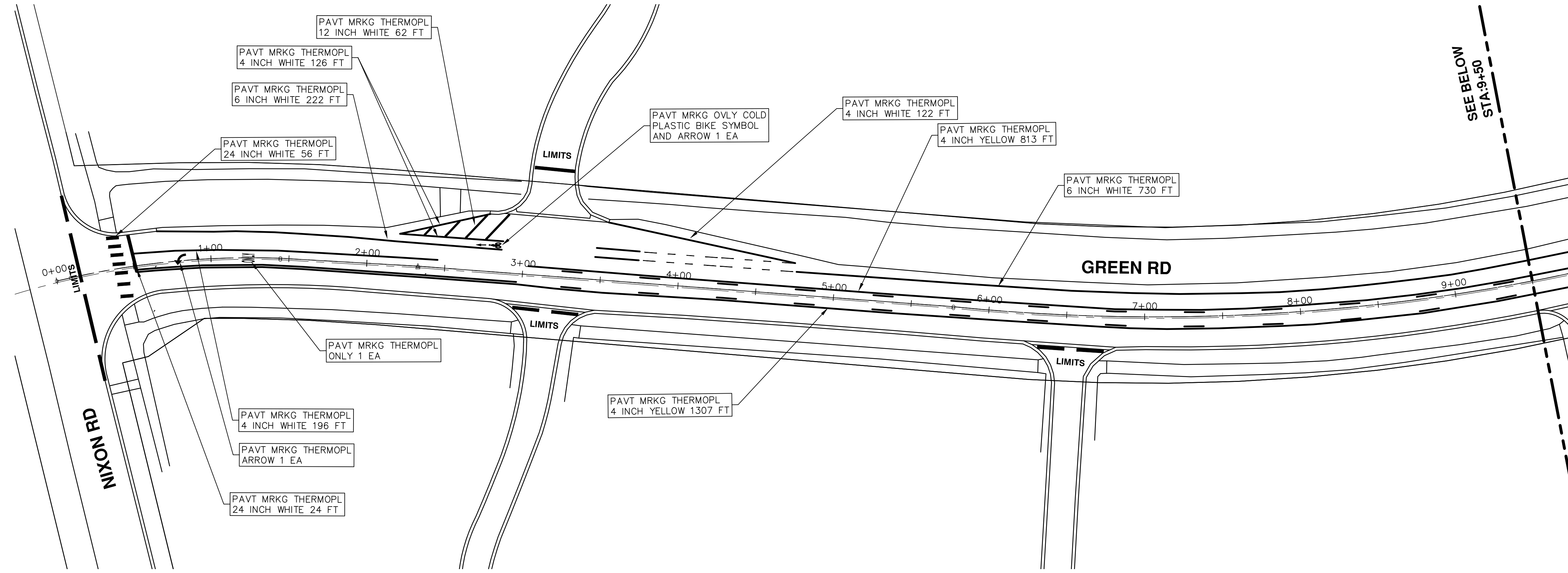
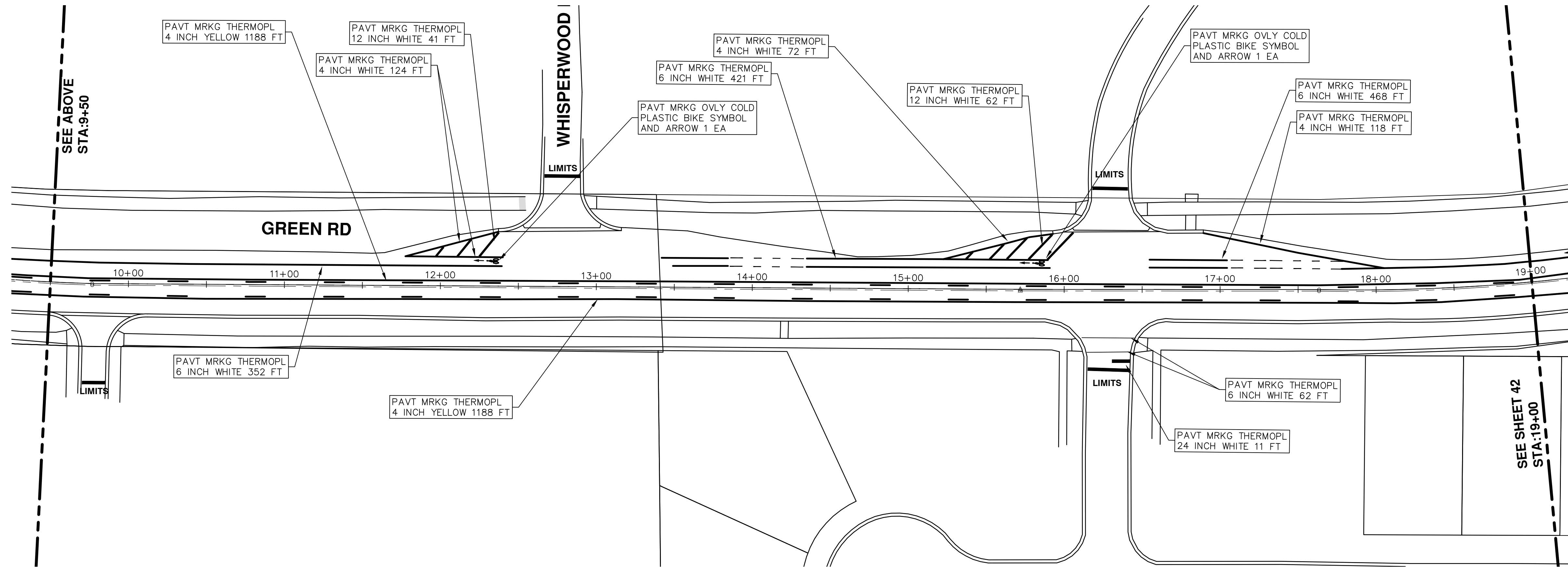


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NIXON RD

WHISPERWOOD

GREEN RD

GREEN RD

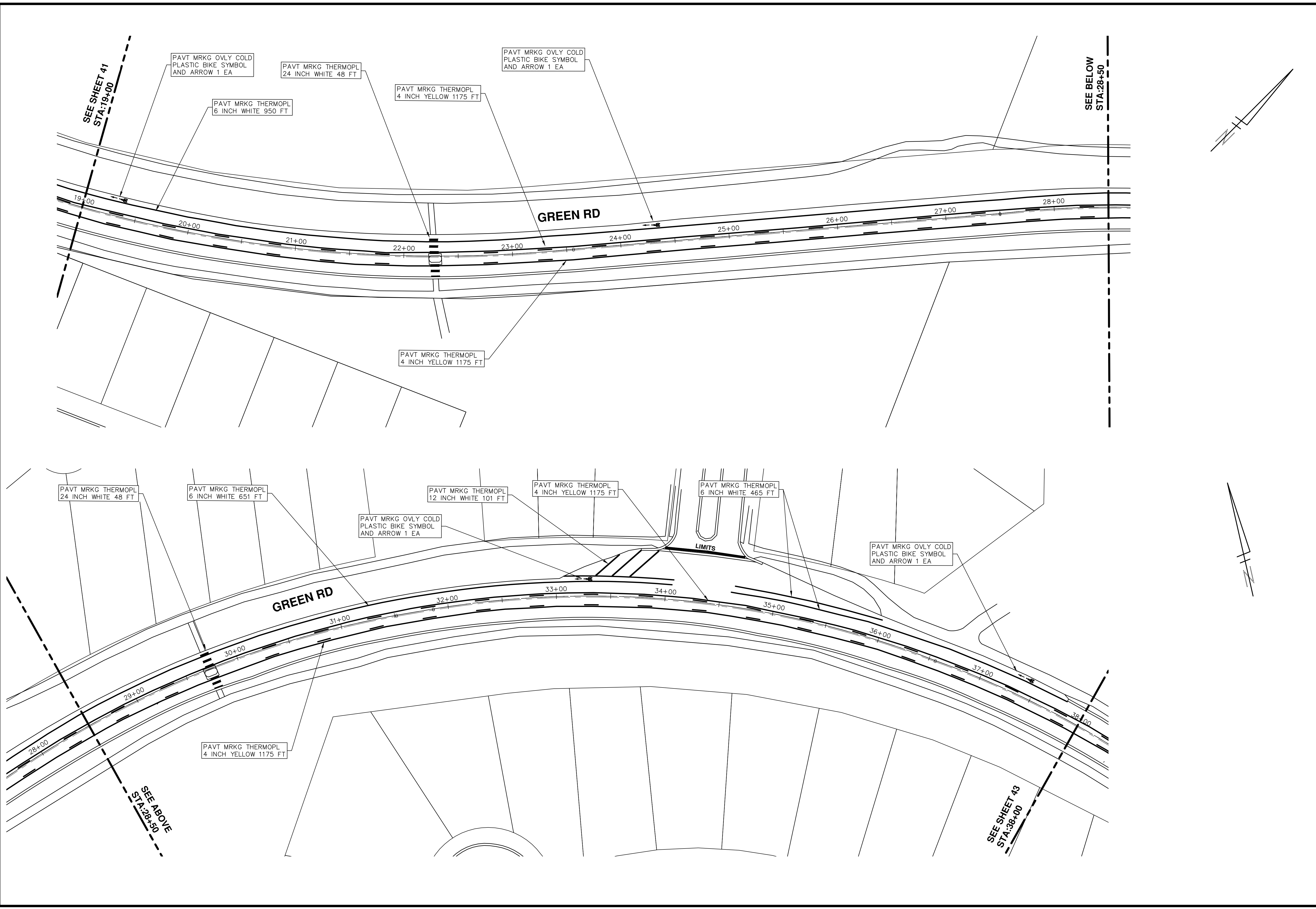


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811
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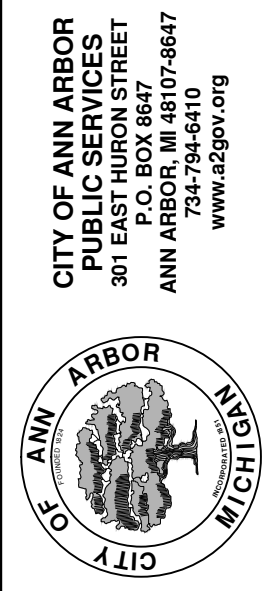
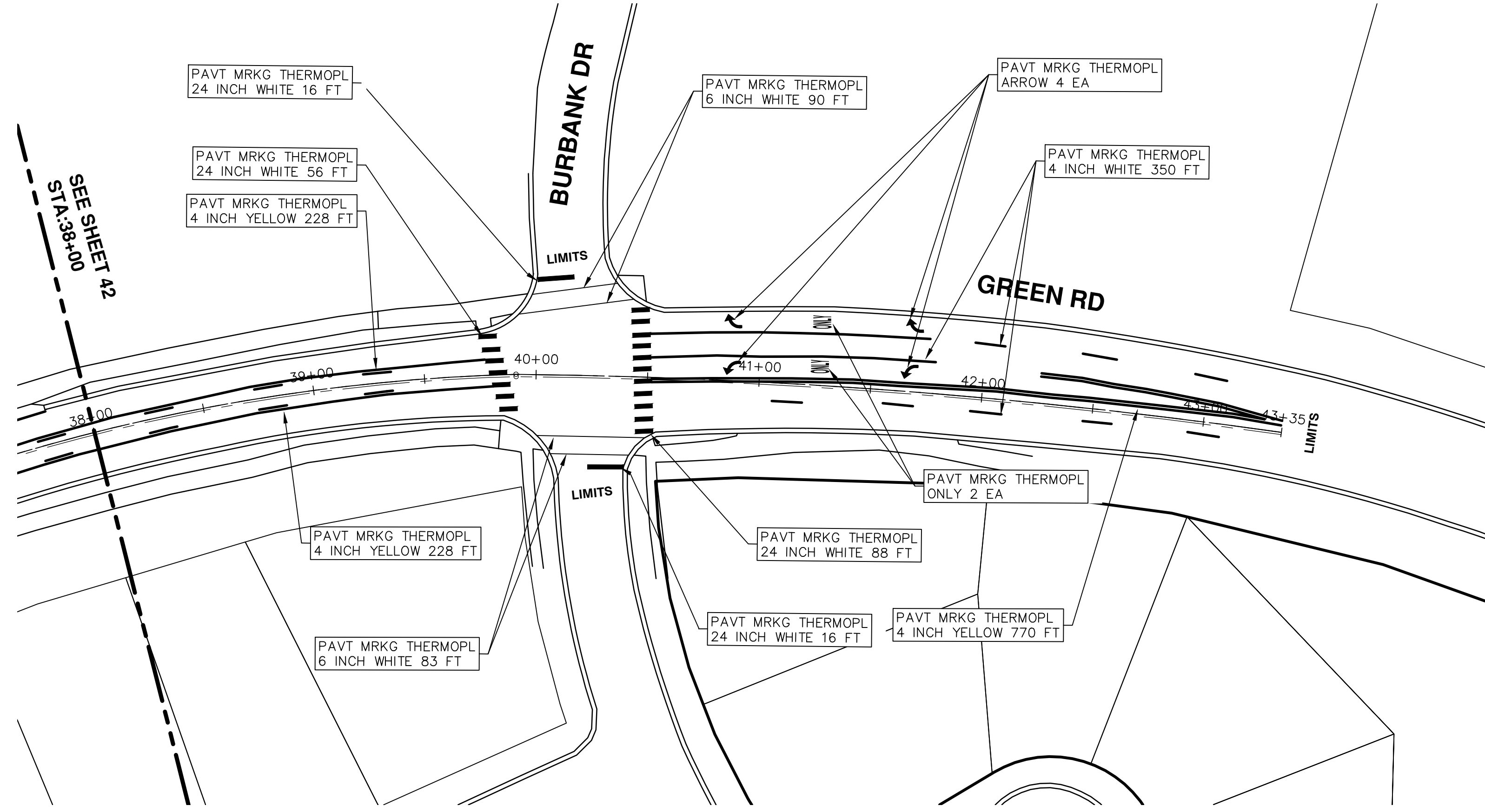
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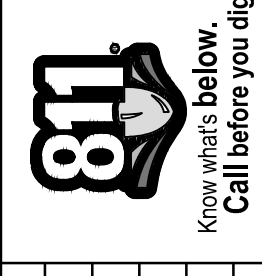
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
GREEN ROAD
PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-42

SHEET No. 42 OF 97



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	ISS AH JK	DAD





CITY OF ANN ARBOR

PROJECT MANAGEMENT

STREET RESURFACING - 2016

LOCATION: PONTIAC TRAIL

ITB No. 4422 FILE No. 2016004



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Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	12.000
2030015	Sewer, Rem, Less than 24 inch	Ft	120.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Lft	486.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	281.000
2057011	Grading, Sidewalk	Syd	164.000
2057011	Grading, Sidewalk Ramp	Syd	117.000
2057021	Subgrade Undercutting, Type IA	Cyd	1,864.000
2087050	Erosion Control, Inlet Filter	Ea	24.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	120.000
4030010	Dr Structure Cover, Type B	Ea	5.000
4030050	Dr Structure Cover, Type K	Ea	13.000
4030200	Dr Structure, 24 inch dia	Ea	12.000
4037001	Dr Structure Cover, Type B, Special	Ea	2.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	14.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,636.000
5010005	HMA Surface, Rem	Syd	54.000
5010057	HMA, 5E3	Ton	1,579.000
5010061	HMA, Approach	Ton	57.000
5017031	Cold Milling HMA Surface, Curb Reveal	Ton	96.750
5017031	HMA, Wedging, 36A	Ton	8.000
6027021	Flowable Fill	Cyd	18.000
8037001	Detectable Warning Surface, Modified	Ft	90.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1050.000
8037010	Sidewalk with Integral Retaining Wall, 6 inch to 18 inch Height	Sft	20.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	1475.000
8110049	Pavt Mrkg, Ovl Cold Plastic, Direction Arrow Sym, Bike	Ea	10.000
8110058	Pavt Mrkg, Ovl Cold Plastic, Bike, Small Sym	Ea	10.000
8110153	Pavt Mrkg, Sprayable Thermopl, 4 inch, White	Ft	206.000
8110154	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	7,708.000
8110155	Pavt Mrkg, Sprayable Thermopl, 6 inch, White	Ft	9,246.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	725.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	233.000
8117001	Pavt Mrkg, Thermopl, 24 inch, Crosswalk	Ft	184.000
8117050	Pavt Mrkg, Thermopl, Lt Tum Arrow Sym	Ea	3.000
8117050	Pavt Mrkg, Thermopl, Only	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	16.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	16.000
8120140	Lighted Arrow, Type C, Furn	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	172.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	172.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	3.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	3.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	735.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	735.000
8127050	No Parking Sign	Ea	61.000
8167011	Slope Restoration	Syd	179.000

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 •_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem •_Grading, Driveway Approach •_Grading, Sidewalk •_Grading, Sidewalk Ramp
CHE	•_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 •_Dr Structure, Rem
DSDI	•_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 I	•_Plastic Drum, High Intensity, Lighted, Furn •_Plastic Drum, High Intensity, Lighted, Oper
TYPE II	•_Barricade, Type III, High Intensity, Double Sided, Lighted, Furn •_Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊕	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊕	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊕	MONUMENT BOX
▭	REMOVE AND REPLACE CONC. SIDEWALK
▭	PLACE CONCRETE SIDEWALK
—	REMOVE & REPLACE CONC. CURB & GUTTER
- - -	CONSTRUCTION LIMITS
- · -	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▭	SUBGRADE UNDERCUT

Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sq ft)	Total
40.0	D3-1	Street Name Sign	4.000	160.000
1.0	M4-10L	Detour Arrow (Left) Sign	6.000	6.000
1.0	M4-10R	Detour Arrow (Right) Sign	6.000	6.000
1.0	M4-8a	End Detour Sign	3.000	3.000
5.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	25.000
2.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	10.000
7.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	35.000
4.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	50.000
11.0	R6-1L	One Way (Left) Sign	3.000	33.000
11.0	R6-1R	One Way (Right) Sign	3.000	33.000
4.0	SP-1	Special Sign	20.000	80.000
14.0	W20-1	Road Work Ahead Sign	9.000	126.000
1.0	W20-2	Detour Ahead Sign	9.000	9.000
6.0	W20-3	Road Closed Ahead Sign	9.000	54.000
1.0	W20-4	One Lane Road Sign ("One Lane Road Ahead")	9.000	9.000
		TOTAL		639.000

CONSTRUCTION METHOD AND SEQUENCING

1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
2. IMPLEMENT MAINTENANCE OF TRAFFIC, AND SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. REMOVE TOP 1.5 INCHES OF EXISTING ROADWAY HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK AS DIRECTED BY THE ENGINEER.
7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
8. GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 1.5 INCHES OF TOP COURSE HMA MIX AS SPECIFIED OR DIRECTED BY THE ENGINEER.
11. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. REMOVE ALL 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 THIS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

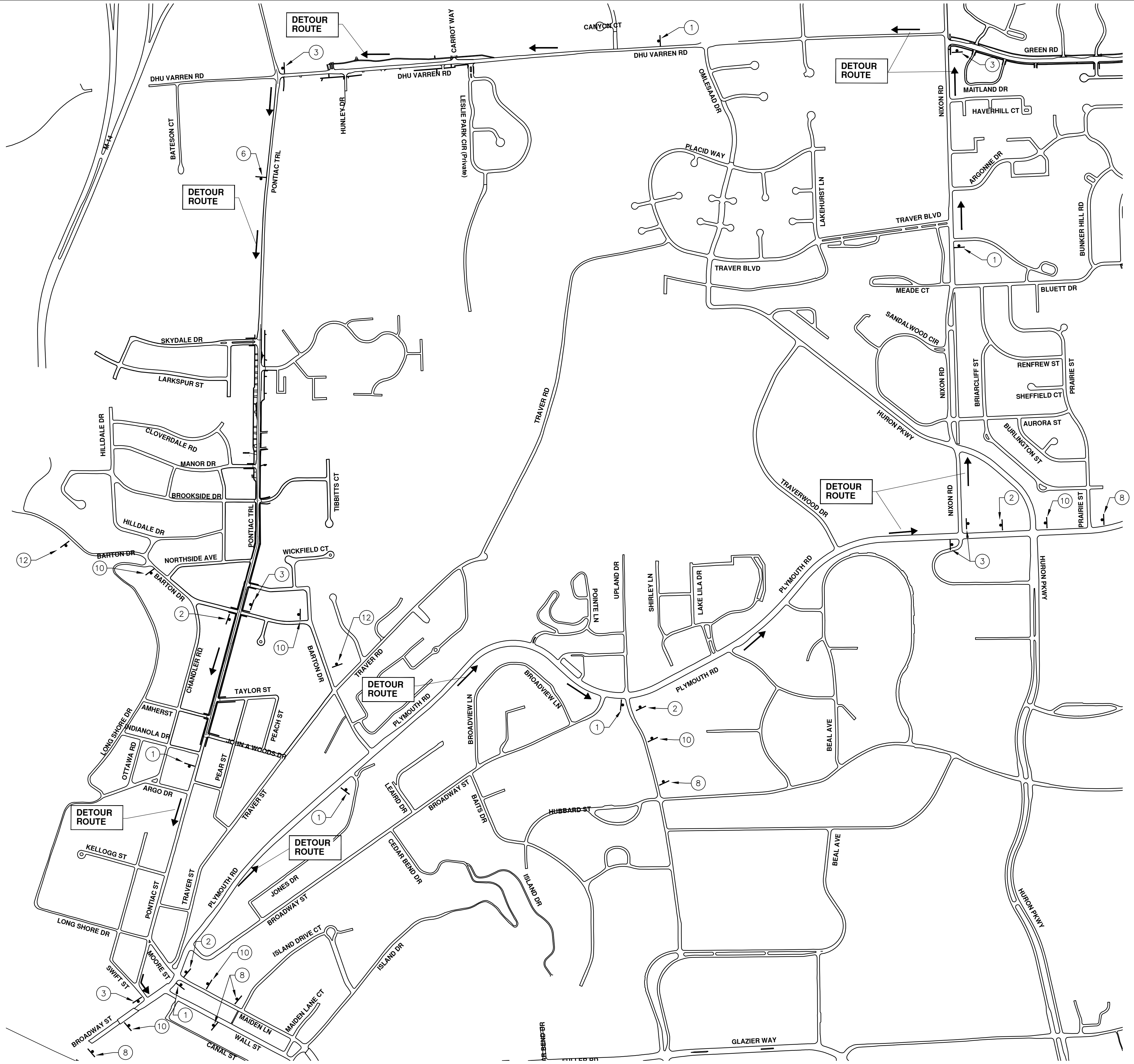
THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE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



PROJECT MANAGEMENT SERVICES UNIT
 CITY OF ANN ARBOR PUBLIC SERVICES
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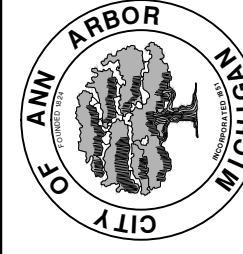
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 STREET RESURFACING - 2016
 PONTIAC TRAIL
 PROJECT DESCRIPTION
 DRAWING No. 2016004-44
 SHEET No. 44 OF 97

TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
1		D3-1 M4-9S 30x24
2		D3-1 M4-9R 30x24
3		D3-1 M4-9L 30x24
6		D3-1 M4-8a 24x18
8		SPECIAL 48x60
10		W20-2 48x48
12		SPECIAL 48x60



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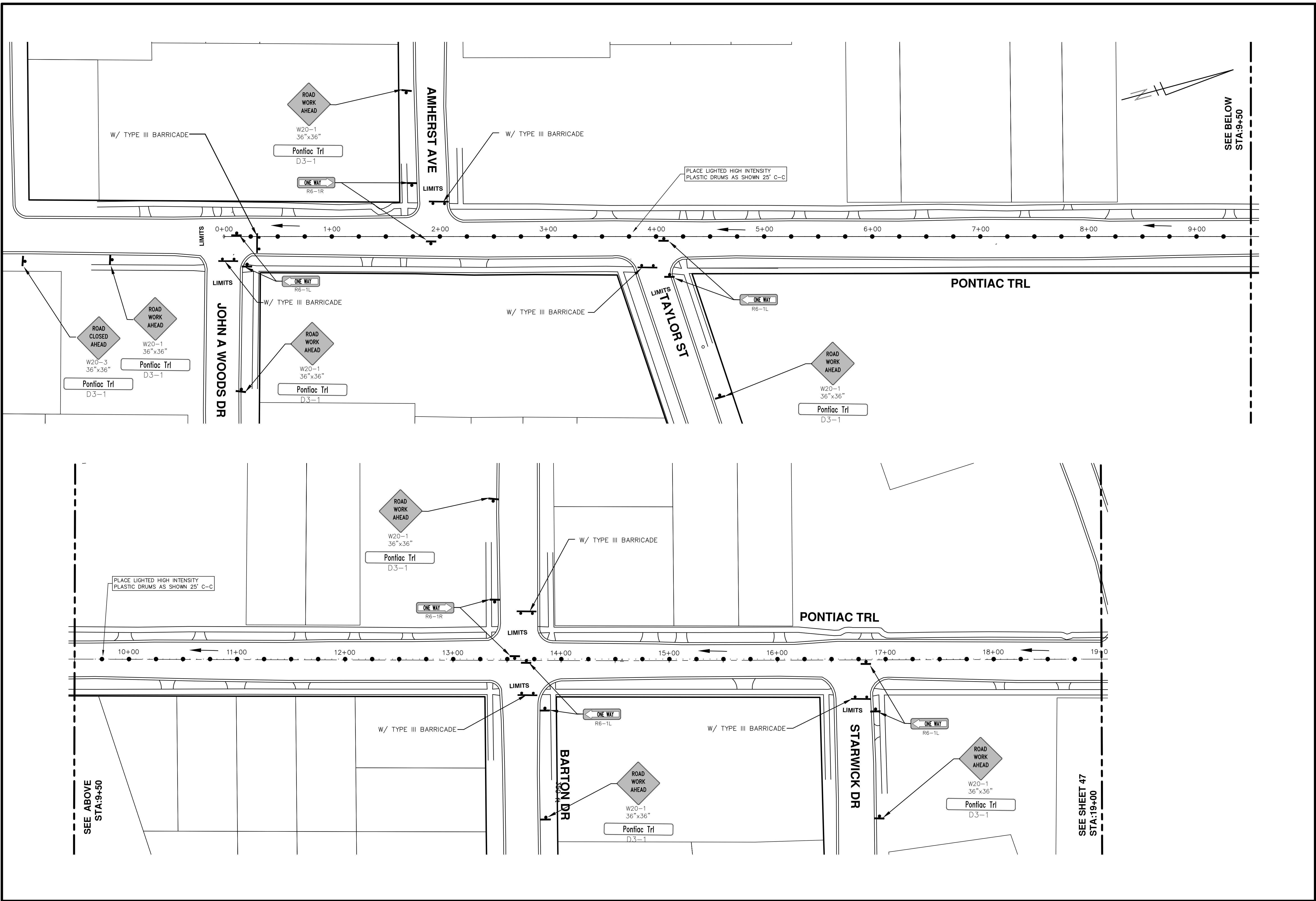


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STREET RESURFACING - 2016
PONTIAC TRAIL
DETOUR

SCALE PLAN: 1:552.49
DRAWING No. 2016004-45

REV.	DATE	DESCRIPTION
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STREET RESURFACING - 2016
 PONTIAC TRAIL
 TRAFFIC CONTROL

SCALE PLAN: 1" = 40'
 DRAWING No. 2016004-46

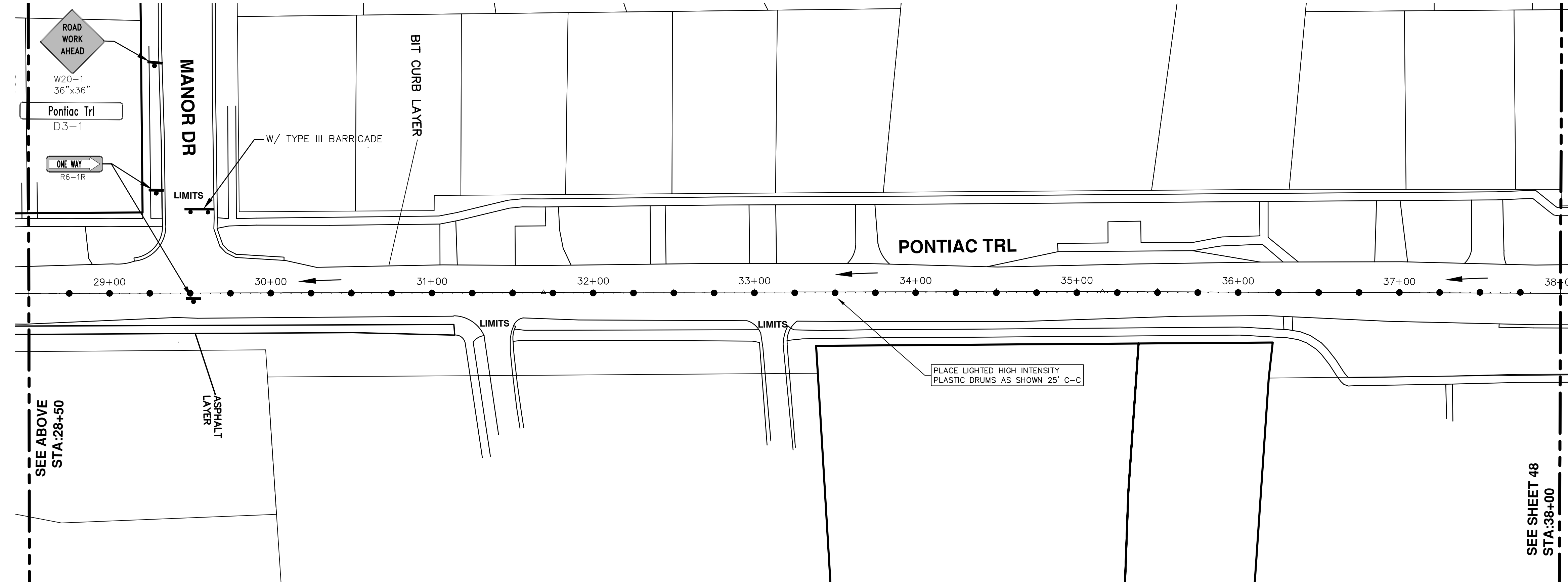
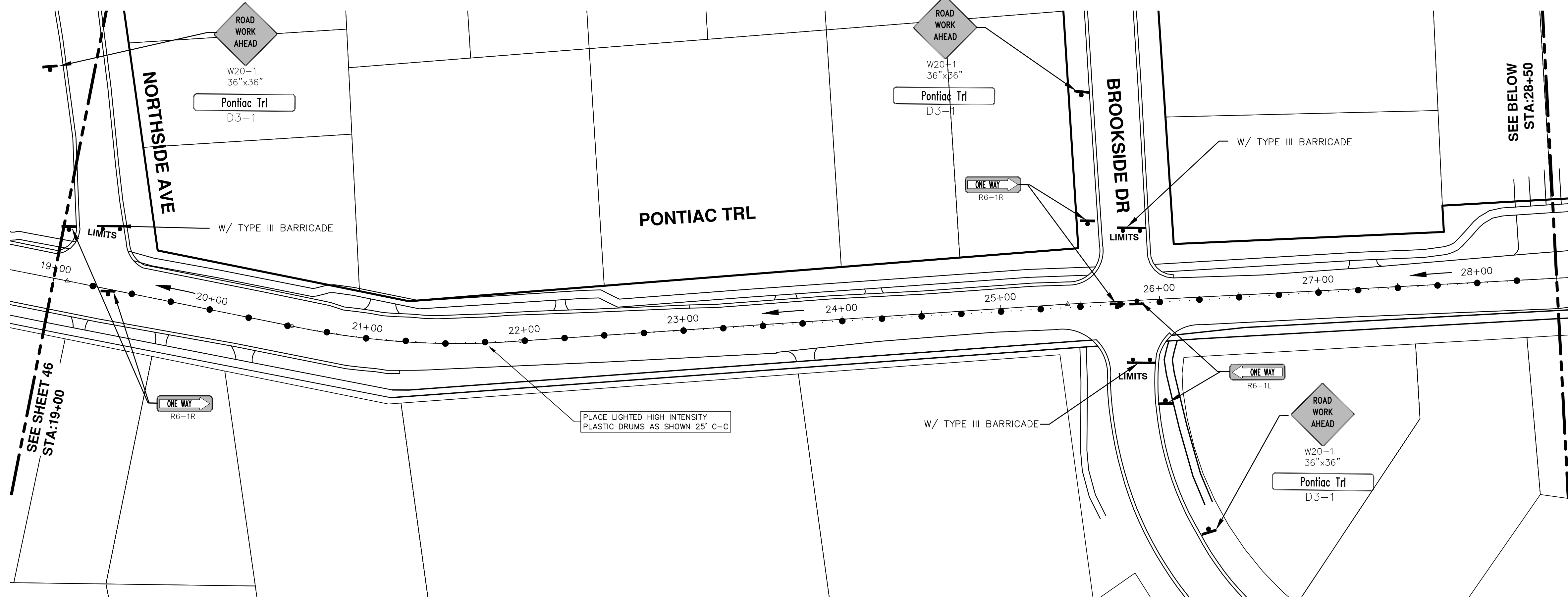
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CITY OF ANN ARBOR MICHIGAN

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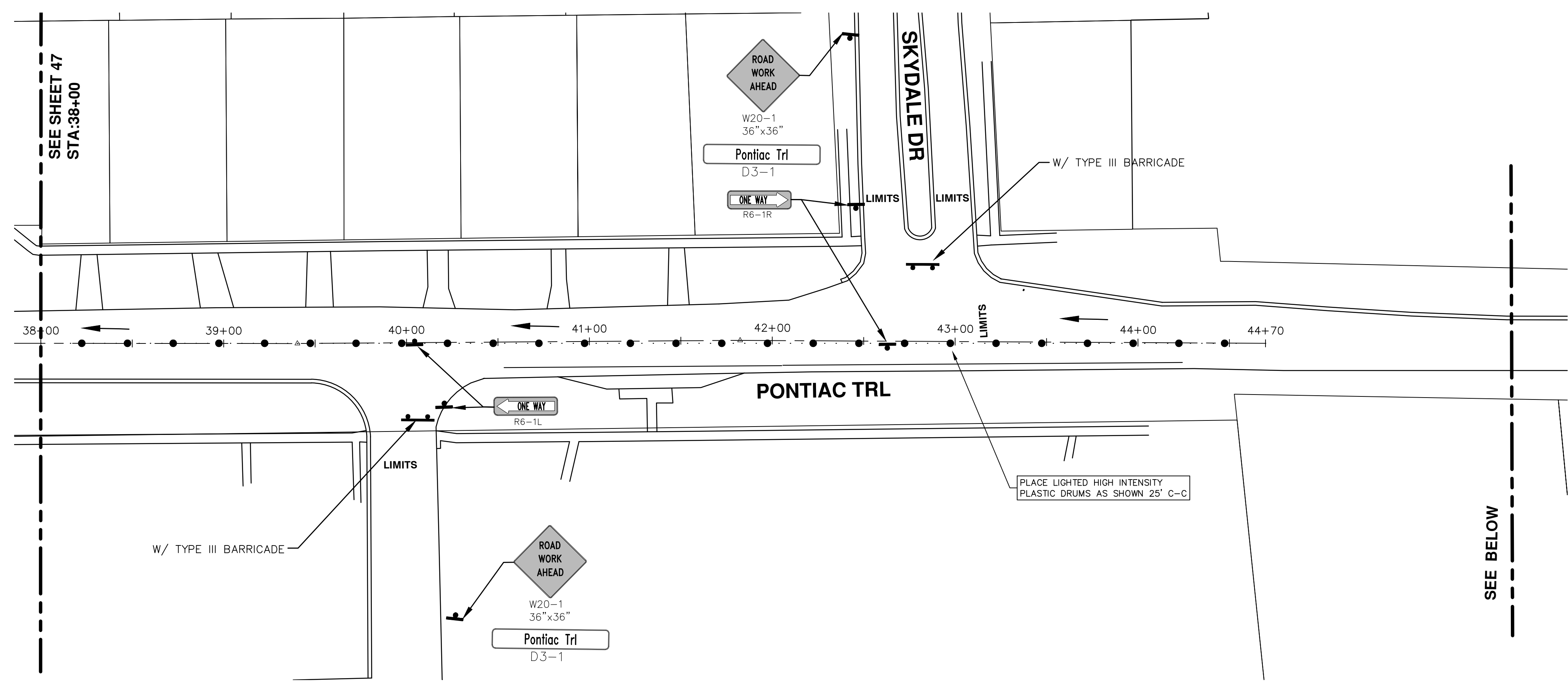
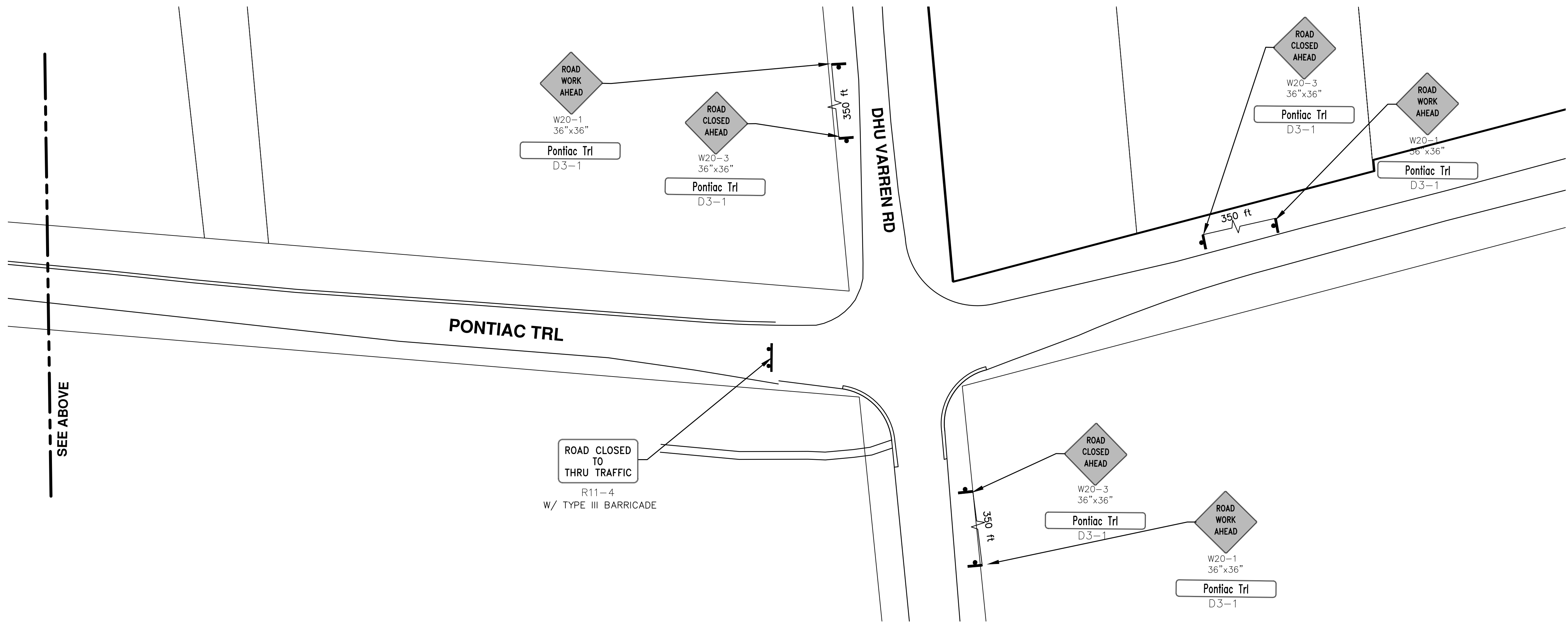
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STREET RESURFACING - 2016
PONTIAC TRAIL
TRAFFIC CONTROL

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-47

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STREET RESURFACING - 2016
 PONTIAC TRAIL
 TRAFFIC CONTROL

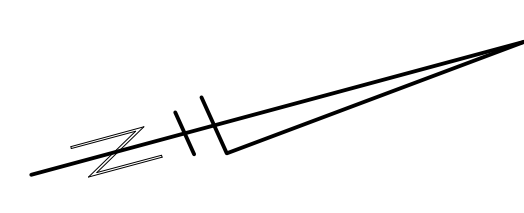
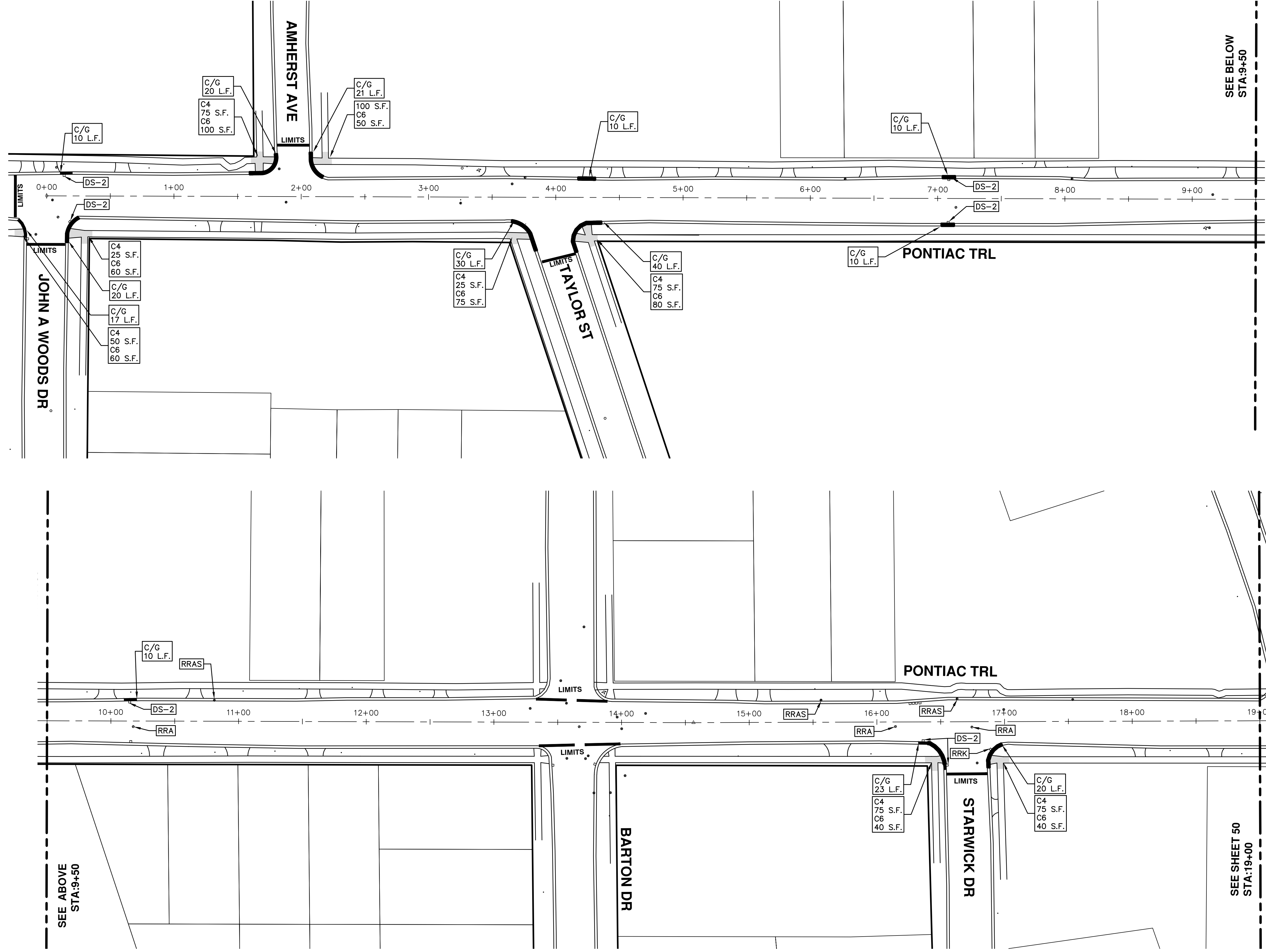
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 DRAWING No. 2016004-48

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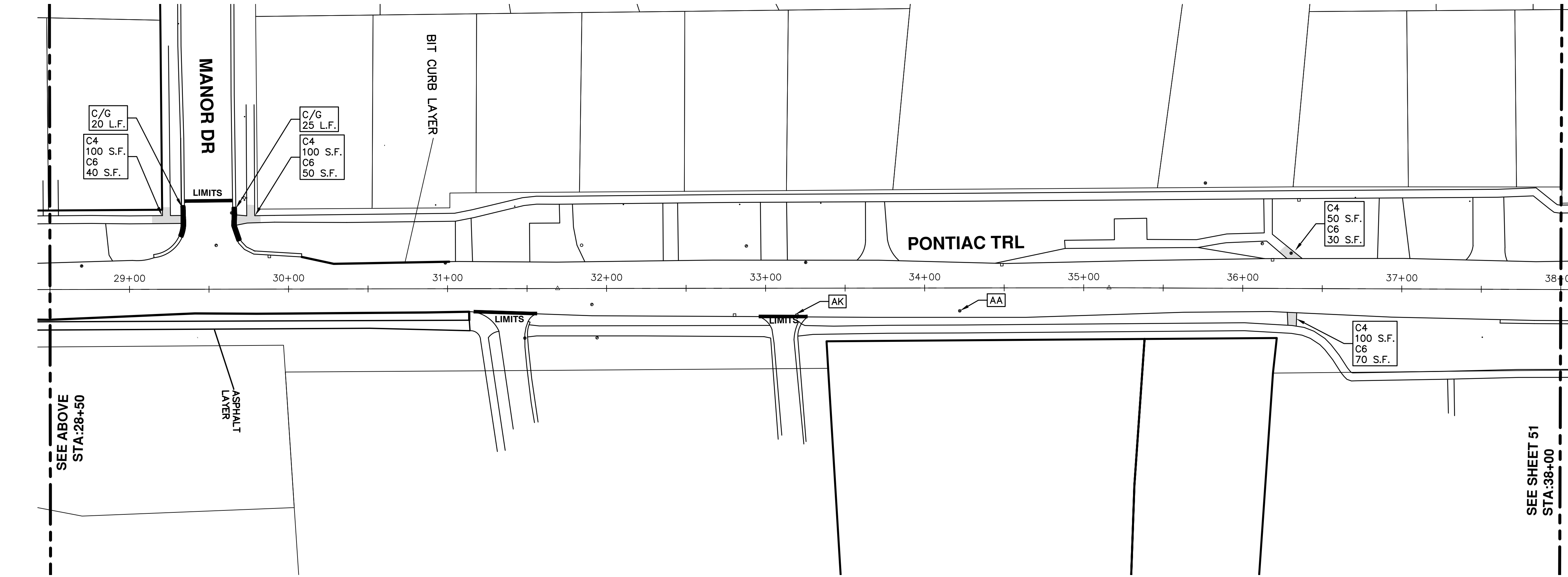
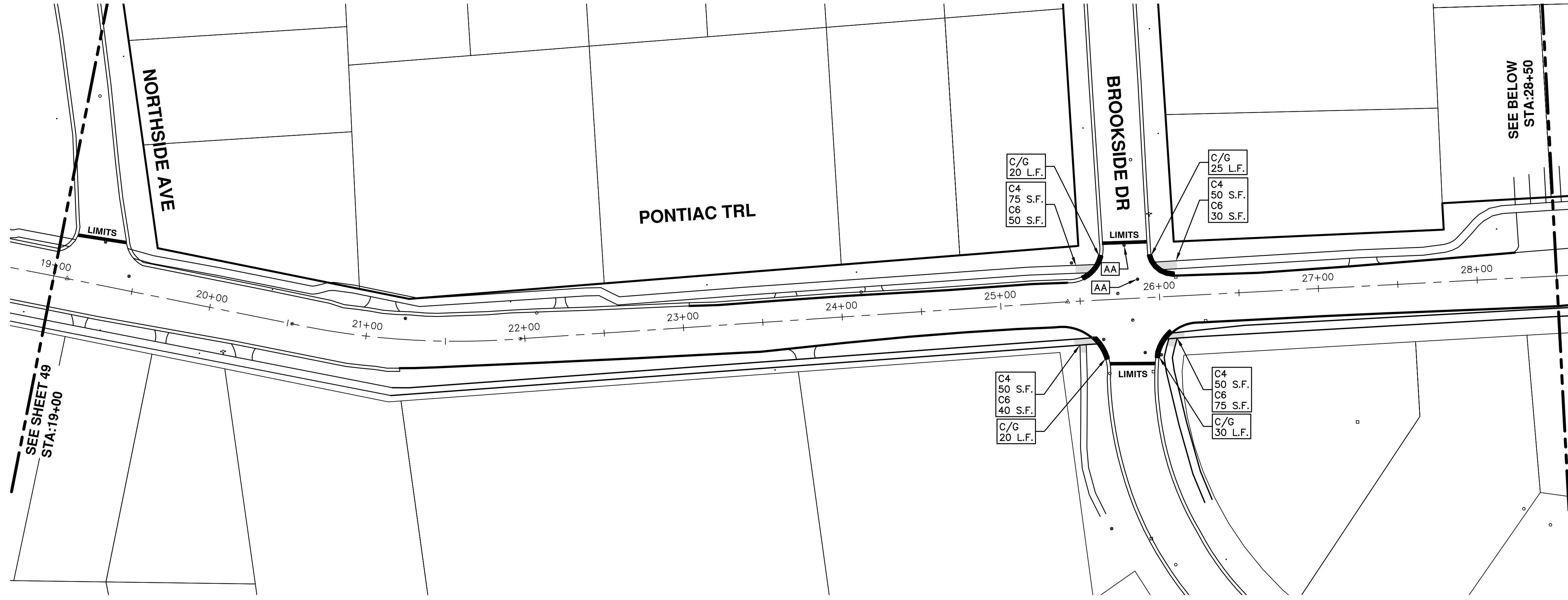


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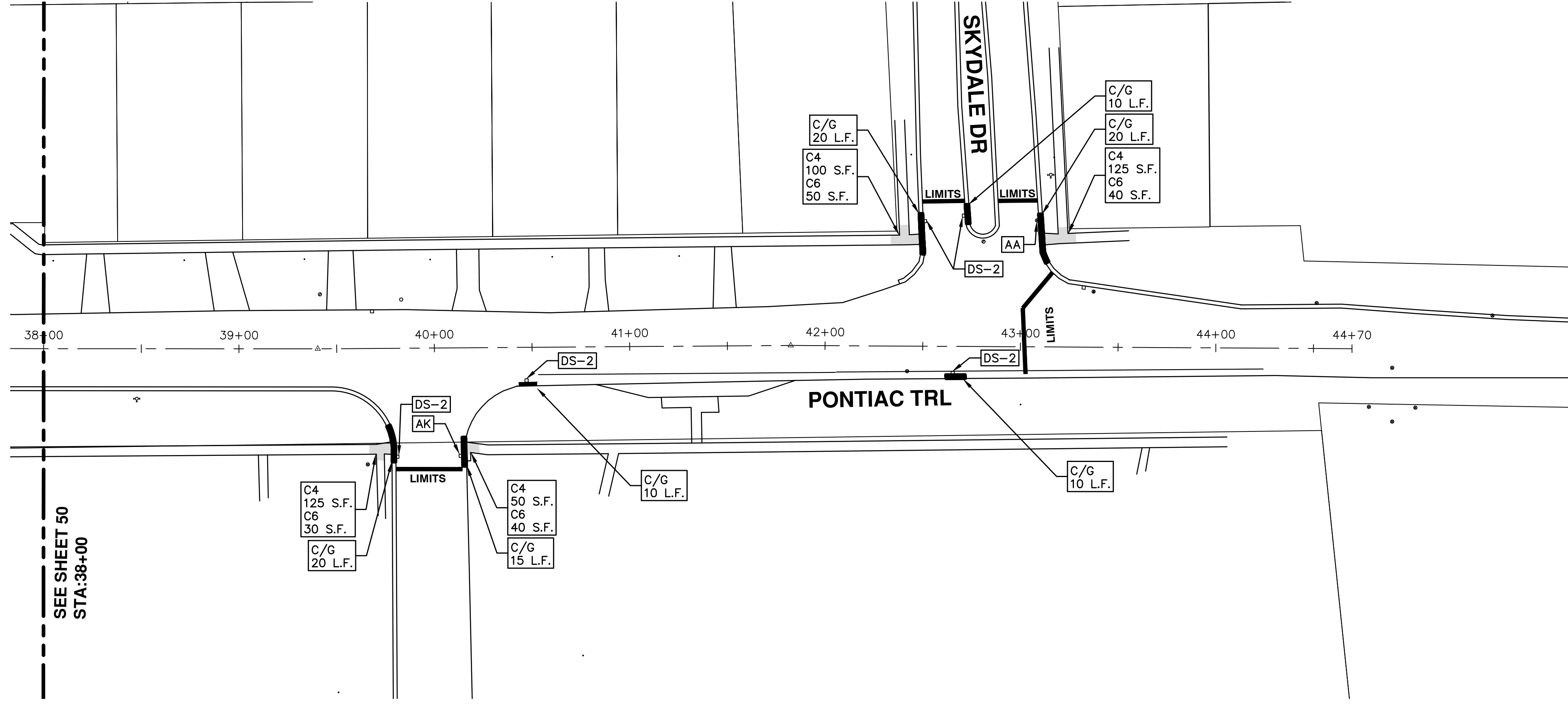
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00	BID SET	2-22-2016	GS AH JK	DAD

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
PONTIAC TRAIL
RESURFACING

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-50



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
PONTIAC TRAIL
RESURFACING

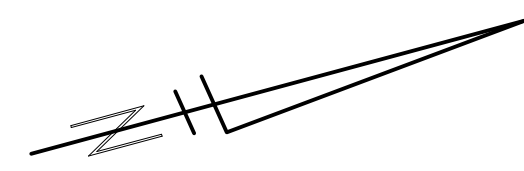
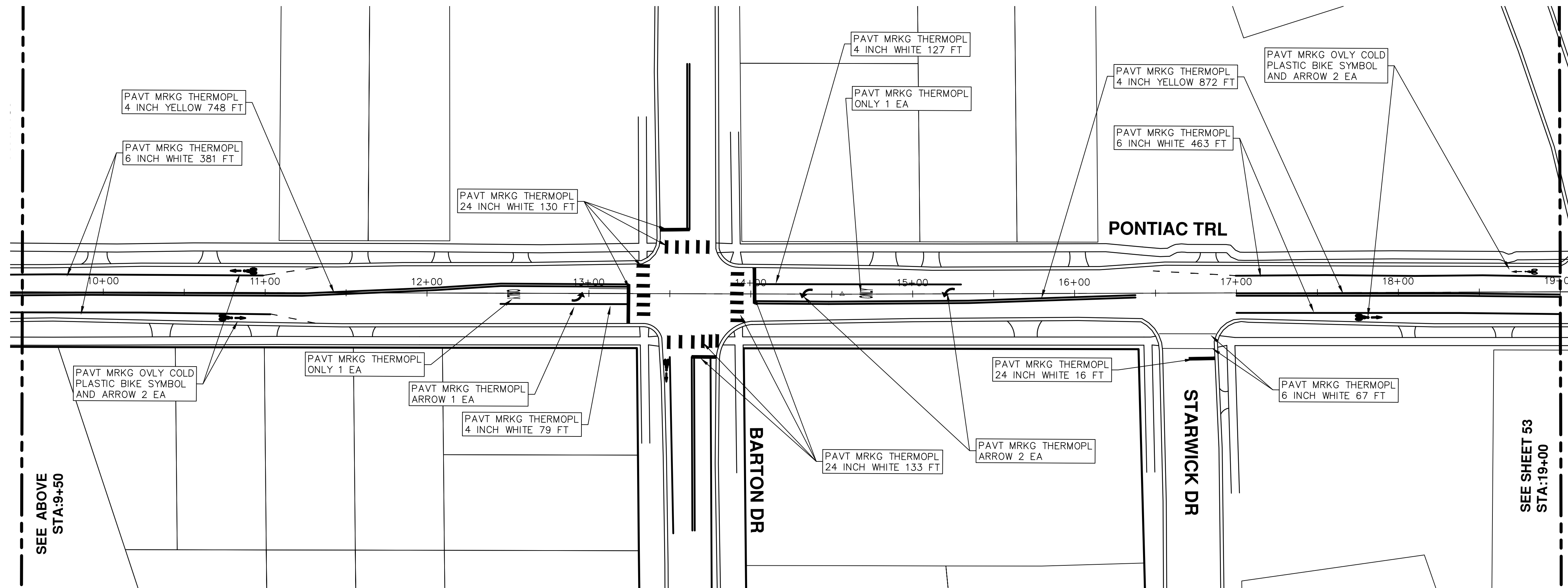
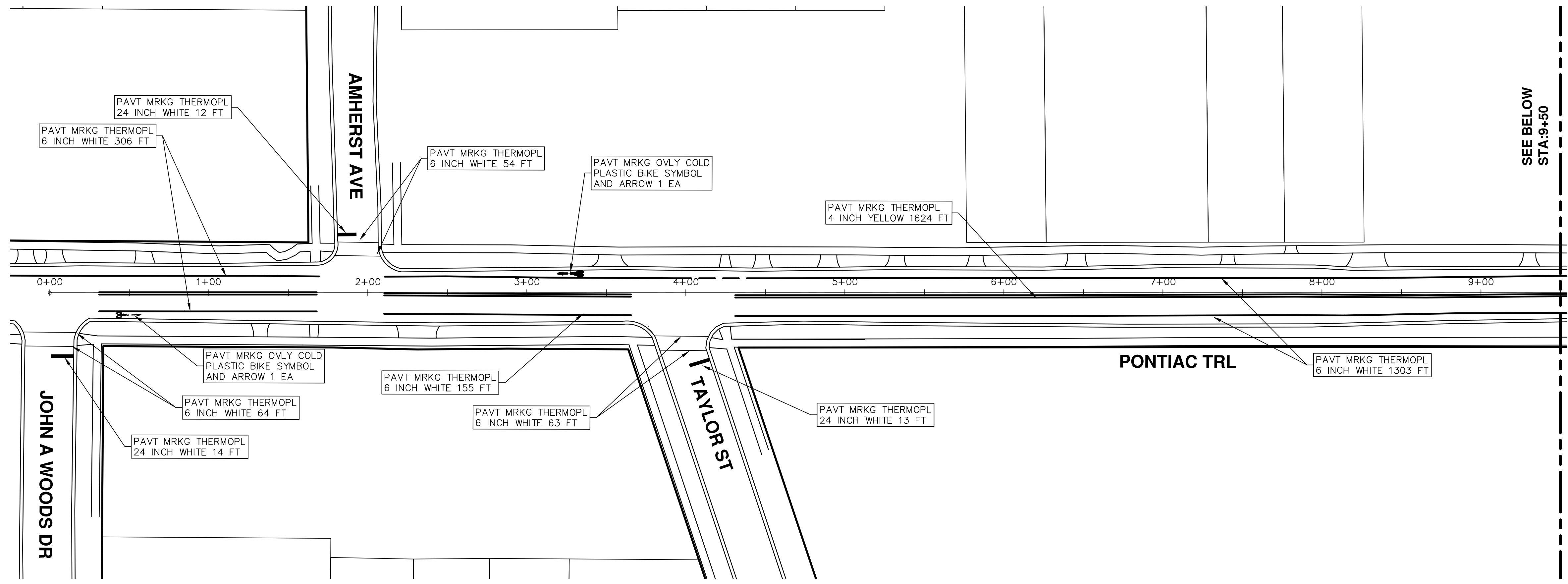
SCALE PLAN: 1" = 40'
 DRAWING No. 2016004-51

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	ISS AH JK	DAD



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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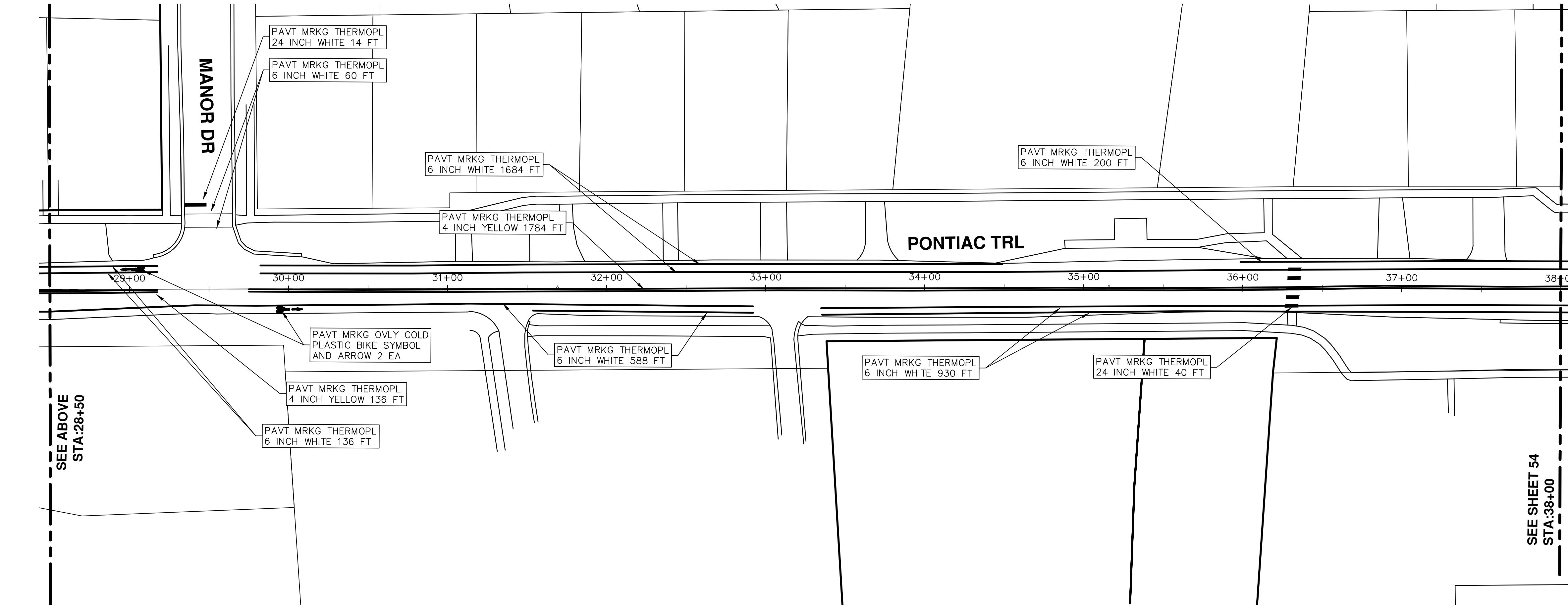
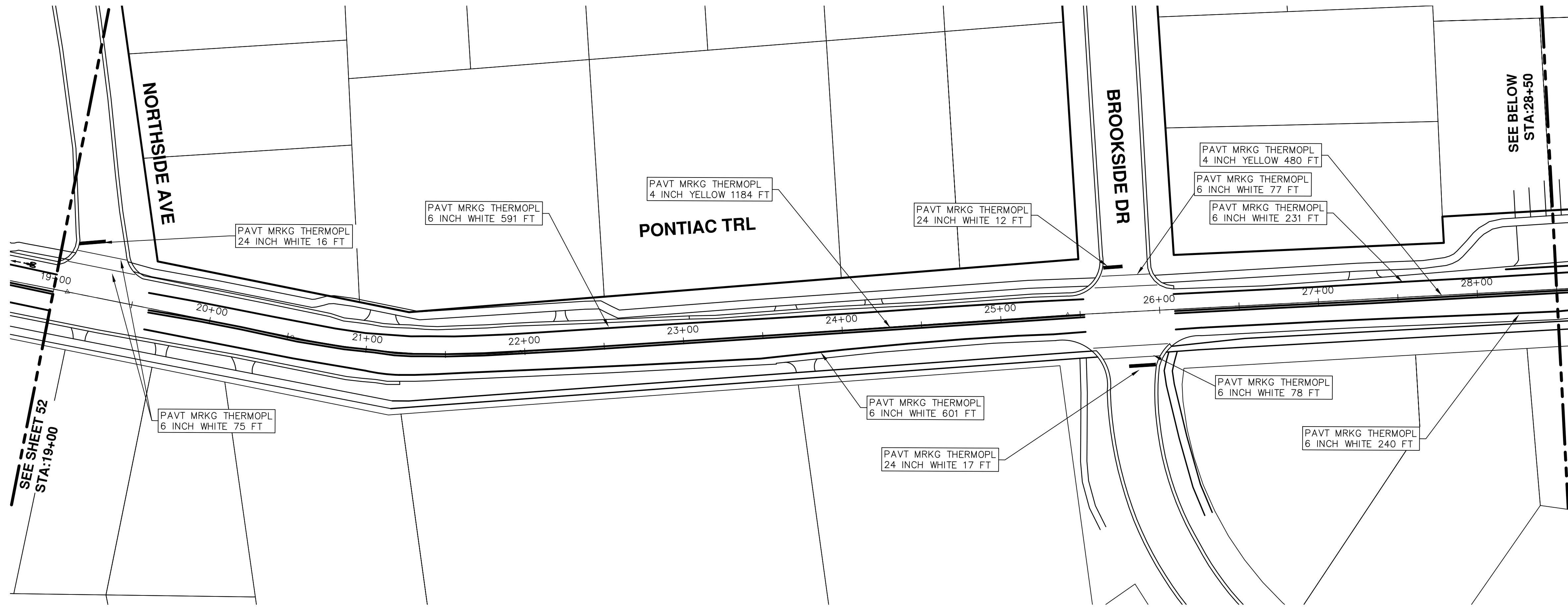
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
PONTIAC TRAIL
PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-52

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
PONTIAC TRAIL
PAVEMENT MARKINGS

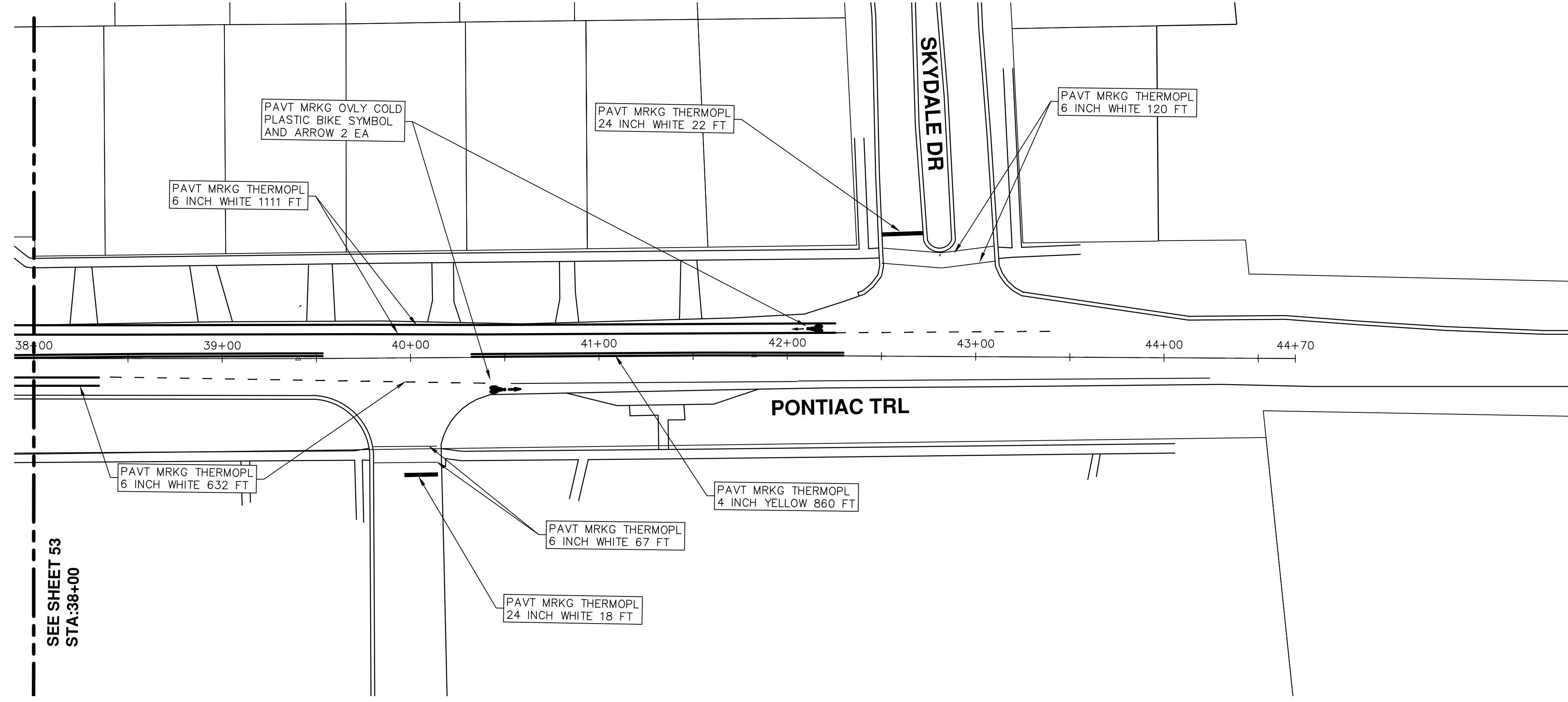
SCALE PLAN: 1" = 40'
 DRAWING No. 2016004-53

811
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SEE SHEET 53
STA: 38+00



CITY OF ANN ARBOR PROJECT MANAGEMENT STREET RESURFACING - 2016 LOCATION: HURON RIVER DRIVE

ITB No. 4422 FILE No. 2016004

Item Code	Item Description	Units	Quantity
2057021	Subgrade Undercutting, Type IA	Cyd	3,850.000
4030010	Dr Structure Cover, Type B	Ea	1.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	6.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	6.000
5010003	Cold Milling HMA Surface	Ton	1,355.000
5010005	HMA Surface, Rem	Syd	253.000
5010025	Hand Patching	Ton	21.000
5010057	HMA, 5E3	Ton	1,338.000
5010061	HMA, Approach	Ton	17.000
8110154	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	12,354.000
8110155	Pavt Mrkg, Sprayable Thermopl, 6 inch, White	Ft	9,751.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	14.000
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
8120140	Lighted Arrow, Type C, Furn	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	100.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	100.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	3.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	3.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	471.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	471.000
8127050	No Parking Sign	Ea	88.000

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 •_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 •_Dr Structure, Rem
DSDI	•_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

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊕	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊕	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
⊕	EXISTING STORM SEWER INLET
⊕	MONUMENT BOX
▭	REMOVE AND REPLACE CONC. SIDEWALK
▭	PLACE CONCRETE SIDEWALK
▭	REMOVE & REPLACE CONC. CURB & GUTTER
▭	CONSTRUCTION LIMITS
▭	6" WRAPPED UNDERDRAIN
▭	REMOVE CONCRETE SIDEWALK
▭	SUBGRADE UNDERCUT

Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total
27.0	D3-1	Street Name Sign	4.000	108.000
0.0	M4-8a	End Detour Sign	3.000	0.000
14.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	70.000
4.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	20.000
5.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	25.000
2.0	SP-1	Special Sign	20.000	40.000
0.0	R11-2	Road Closed Sign ("Road Closed")	10.000	0.000
2.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	25.000
4.0	W20-1	Road Work Ahead Sign	9.000	36.000
7.0	W20-2	Detour Ahead Sign	9.000	63.000
4.0	W20-3	Road Closed Ahead Sign	9.000	36.000
		TOTAL		423.000

CONSTRUCTION METHOD AND SEQUENCING

1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
2. IMPLEMENT MAINTENANCE OF TRAFFIC, AND SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. REMOVE TOP 1.5 INCHES OF EXISTING ROADWAY HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK AS DIRECTED BY THE ENGINEER.
7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
8. GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 1.5 INCHES OF TOP COURSE HMA MIX AS SPECIFIED OR DIRECTED BY THE ENGINEER.
11. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. REMOVE ALL 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 THIS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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



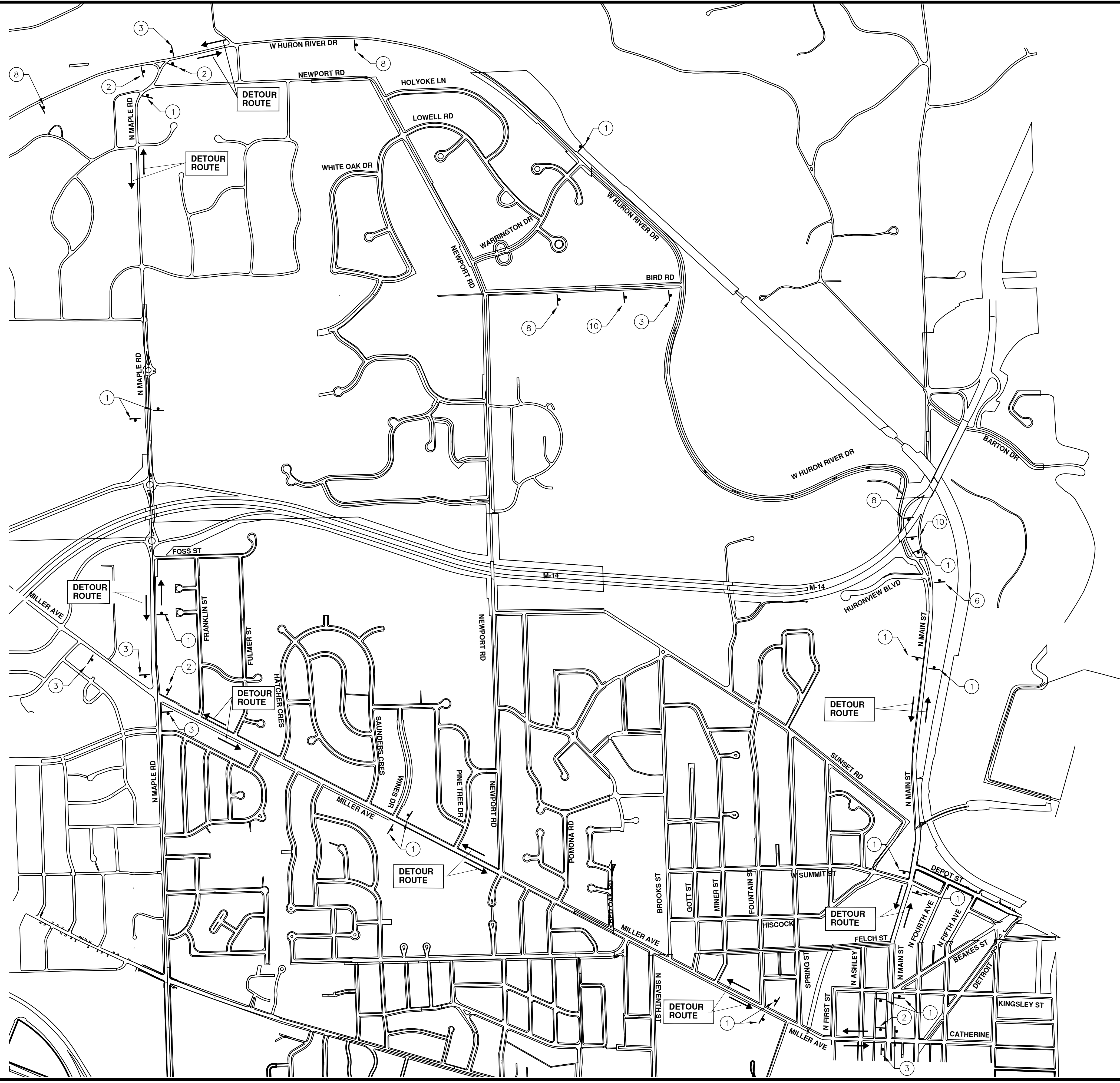
PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
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734-794-6410 www.a2gov.org

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STREET RESURFACING - 2016
HURON RIVER DRIVE
DRAWING No. 2016004-55

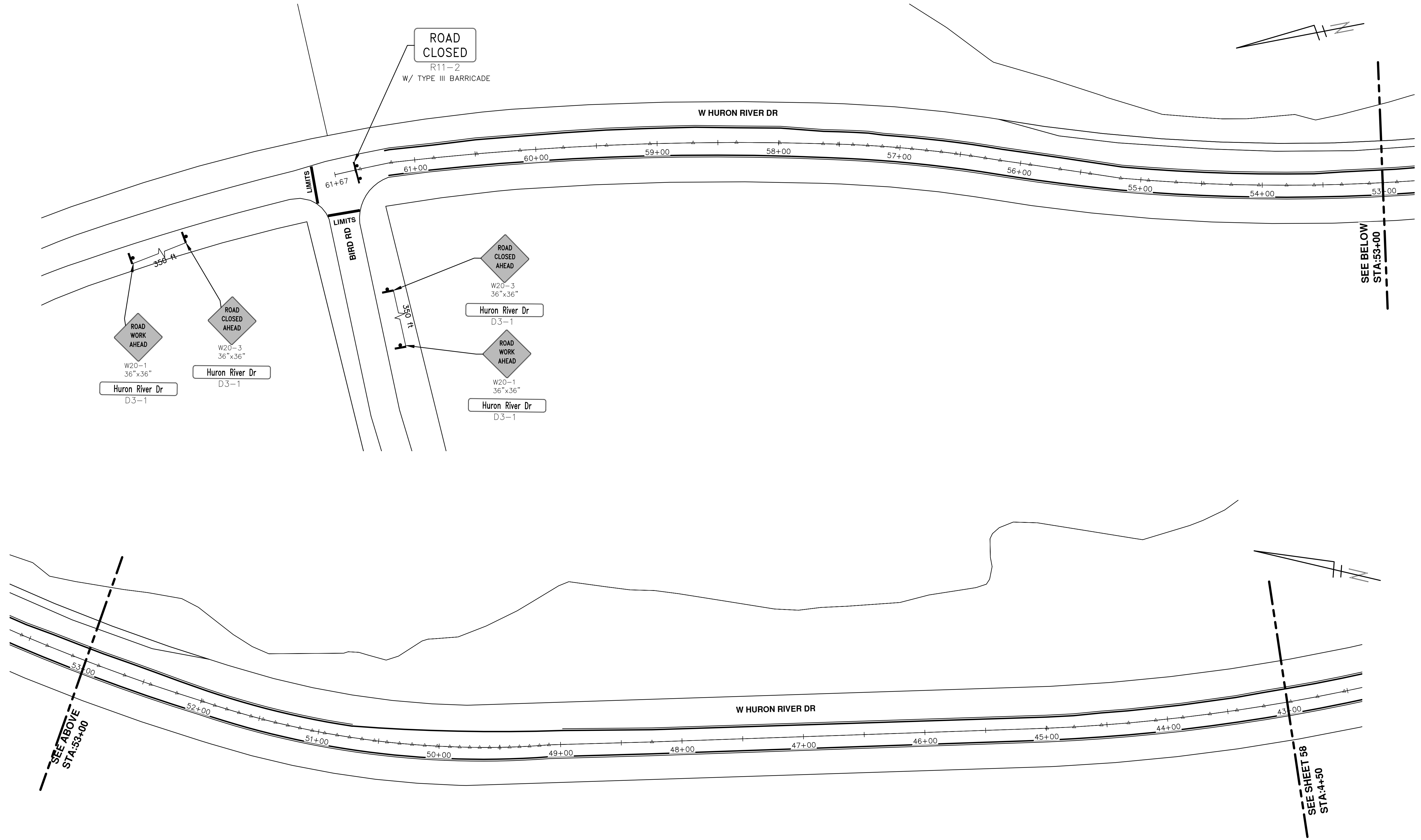
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②		D3-1 M4-9R 30x24
③		D3-1 M4-9L 30x24
⑥		D3-1 M4-8a 24x18
⑧		SPECIAL 48x60
⑩		W20-2 48x48 D3-1
⑫		SPECIAL 48x60





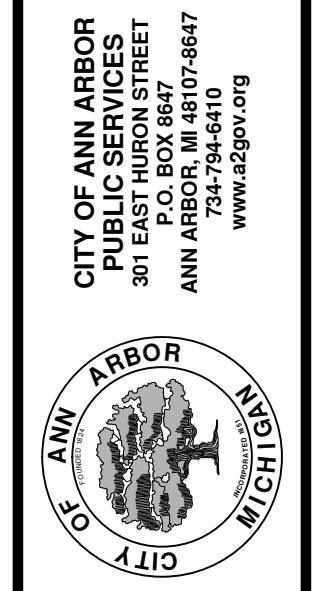
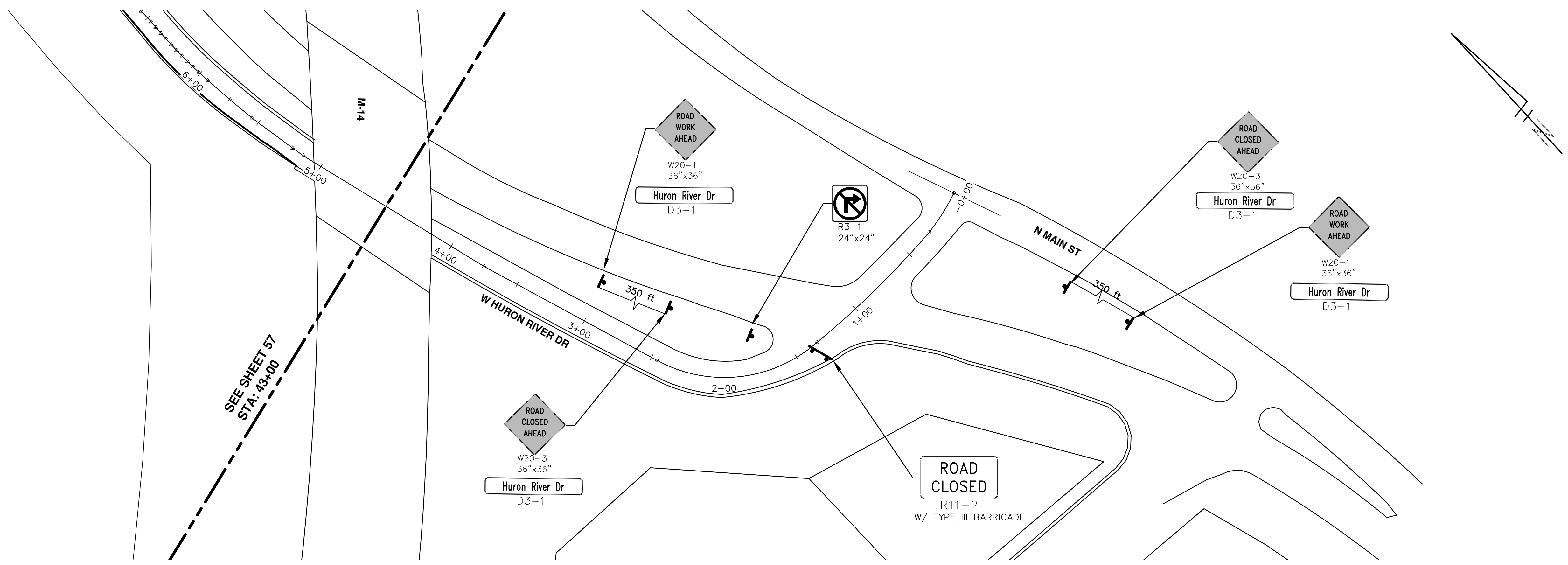
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00	2-22-2016	ISS. AH JK
		DRAWN
		CHECKED



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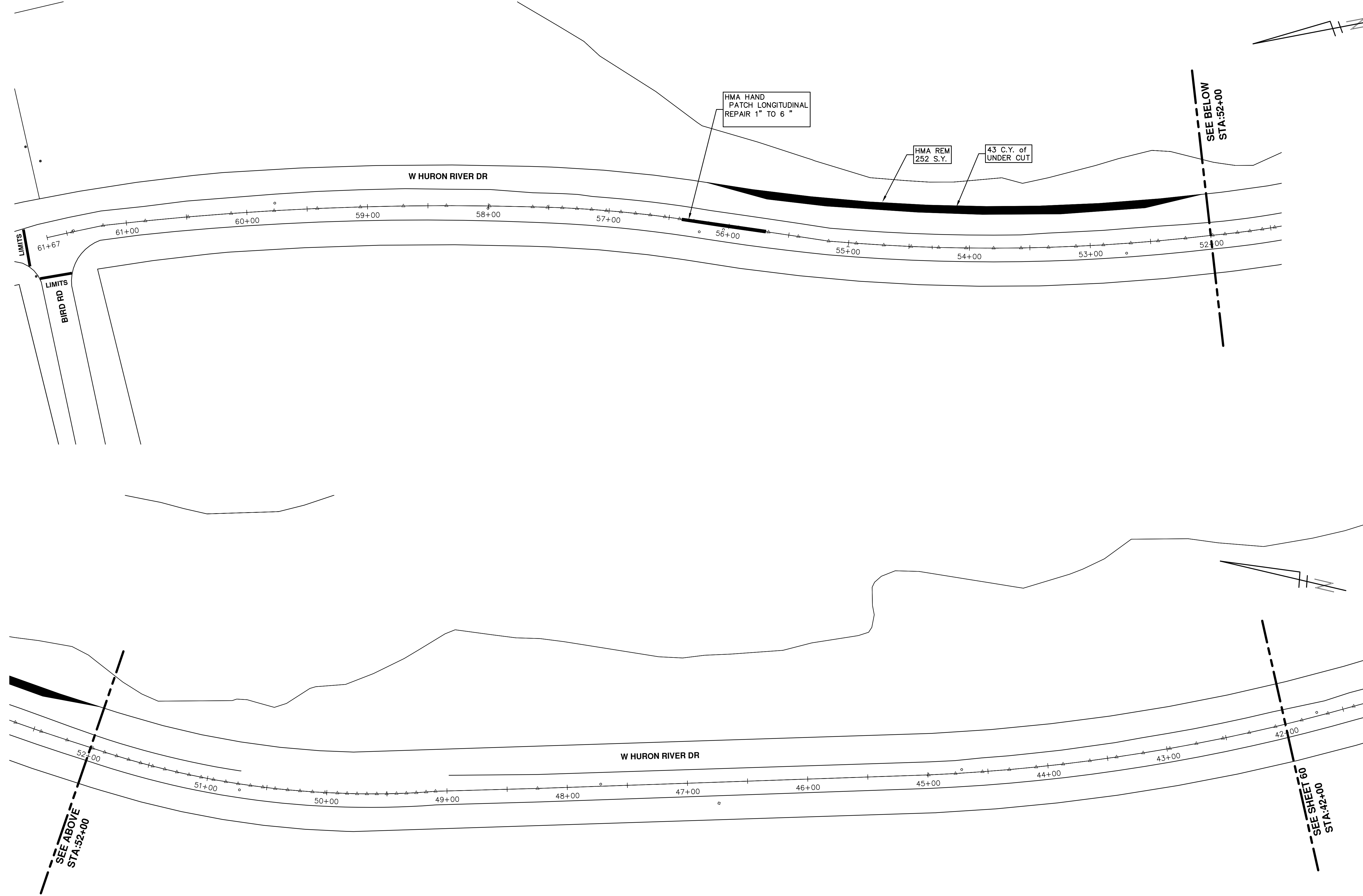
 Know what's below. Call before you dig.	
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REV.	DESCRIPTION
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SCALE PLAN: 1" = 40' 	DRAWING No. 2016004-57
SHEET No. 57 OF 97	



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	2-22-2016	SS AH JK	DAD



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00	BID SET	2-22-2016	GS AH JK	DAD

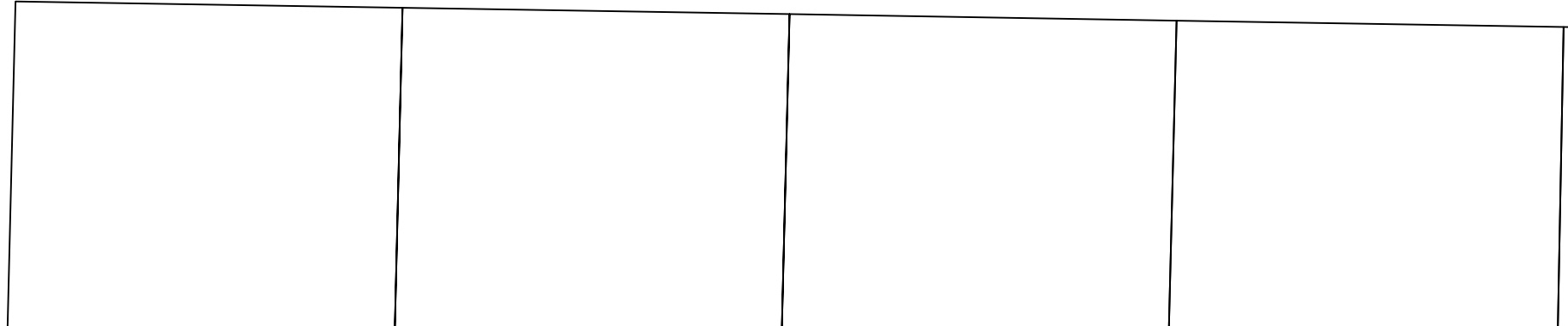
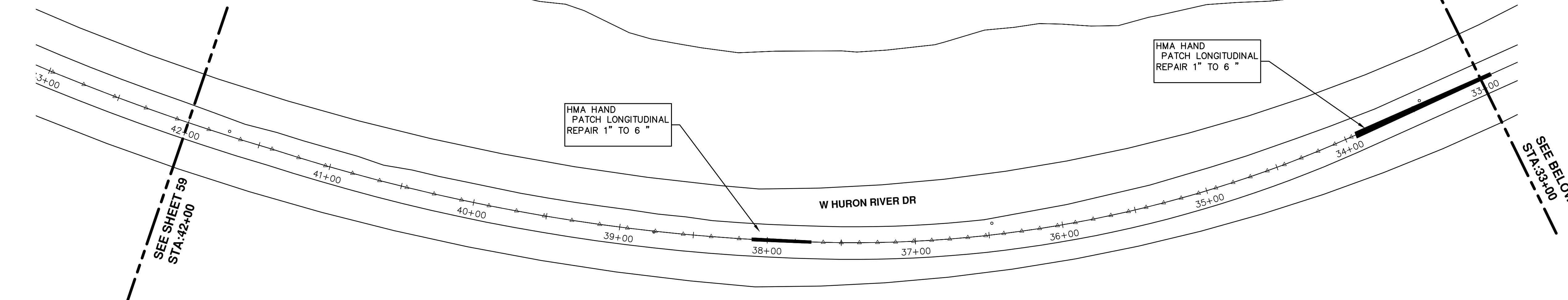
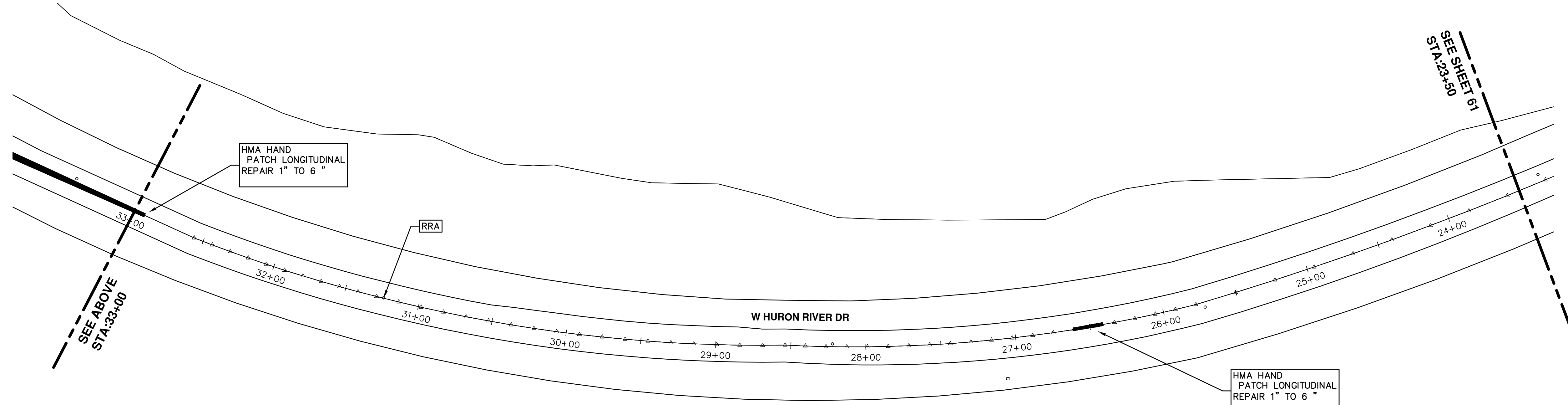
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STREET RESURFACING - 2016
HURON RIVER DRIVE
RESURFACING

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-59

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STREET RESURFACING - 2016
 HURON RIVER DRIVE
 RESURFACING

SCALE PLAN: 1" = 40'

DRAWING No. 2016004-60


SHEET No. 60 OF 97



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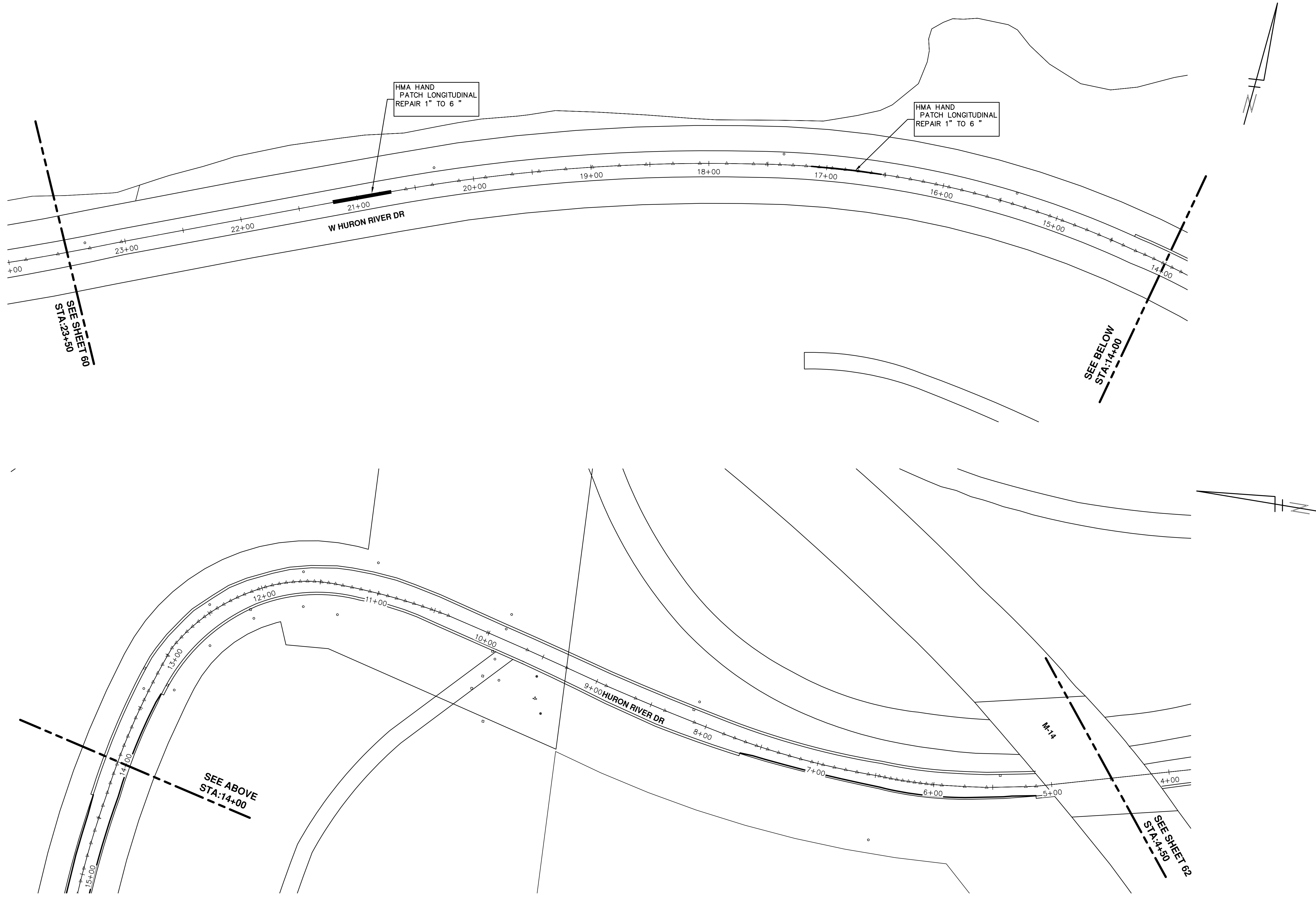
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ADDENDUM #1



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SEE SHEET 60
STA: 23+50

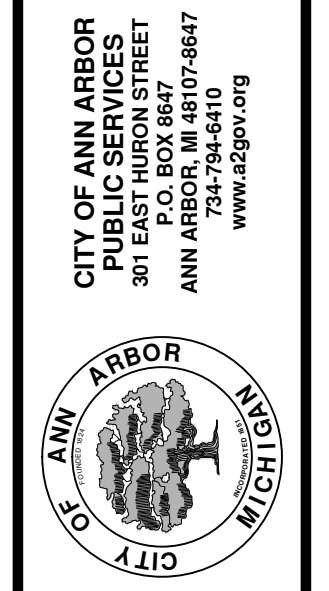
SEE ABOVE
STA: 14+00

SEE BELOW
STA: 14+00

SEE SHEET 62
STA: 4+50

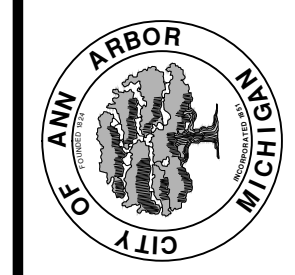
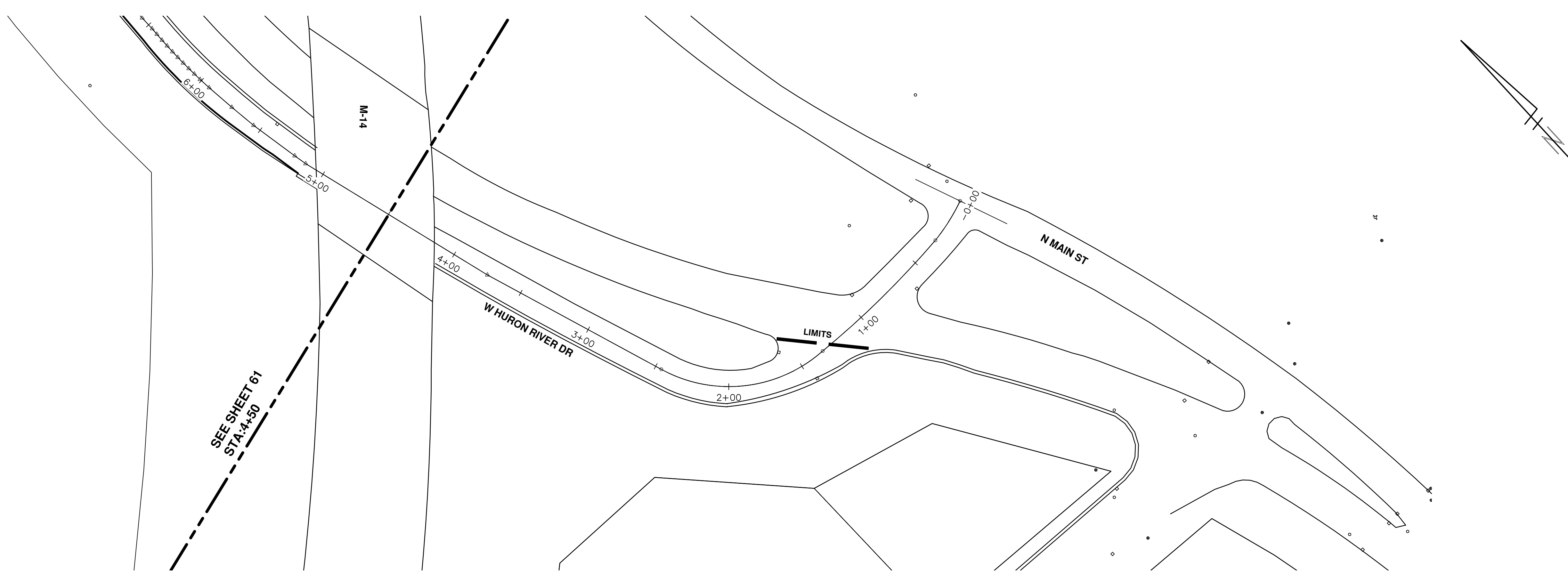
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STREET RESURFACING - 2016
 HURON RIVER DRIVE
 RESURFACING

SCALE PLAN: 1" = 40'
 DRAWING No. 2016004-61



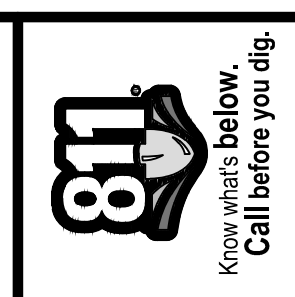
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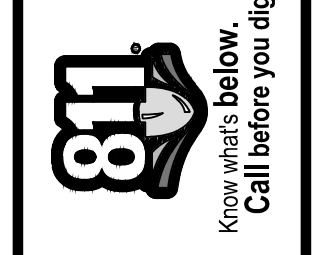
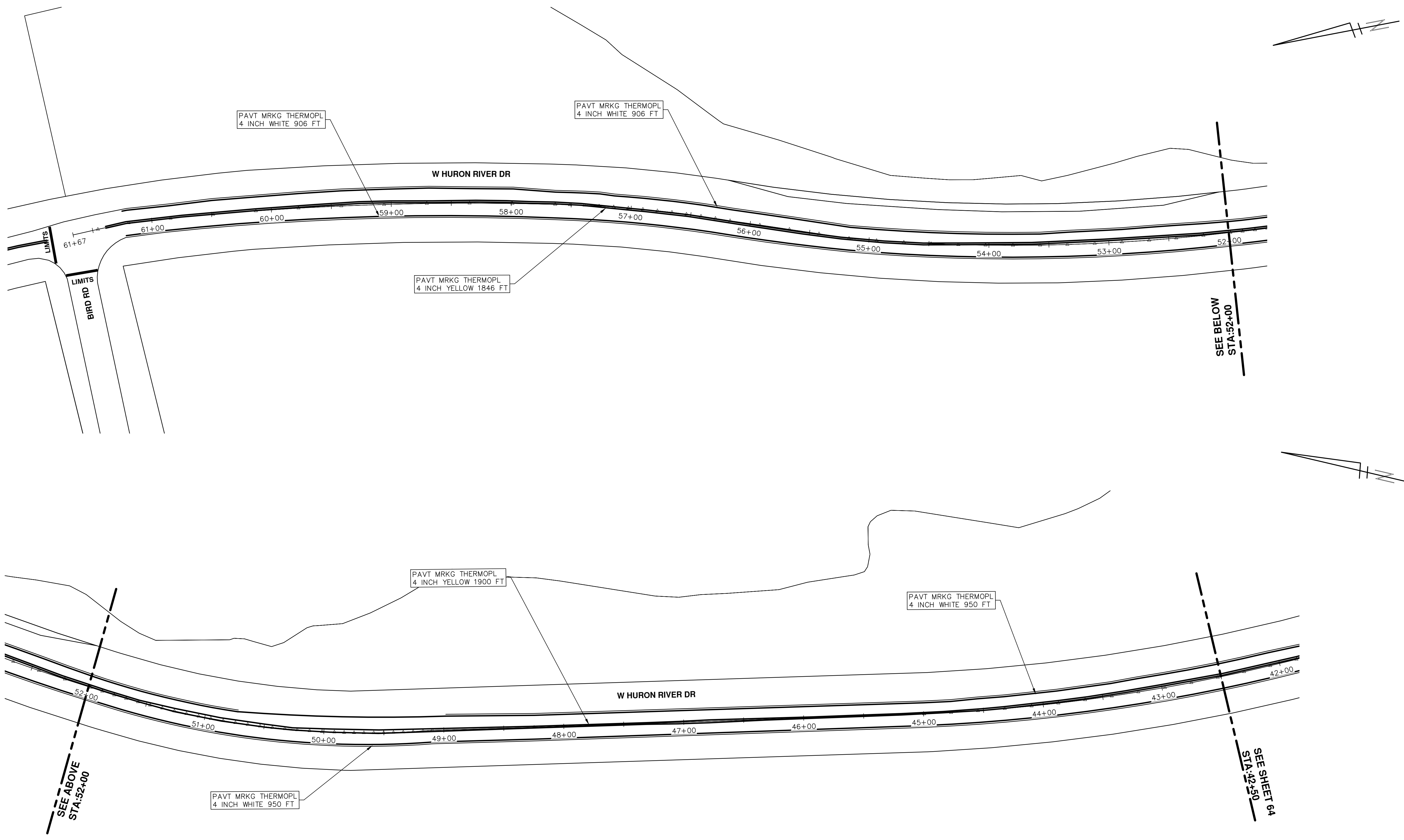


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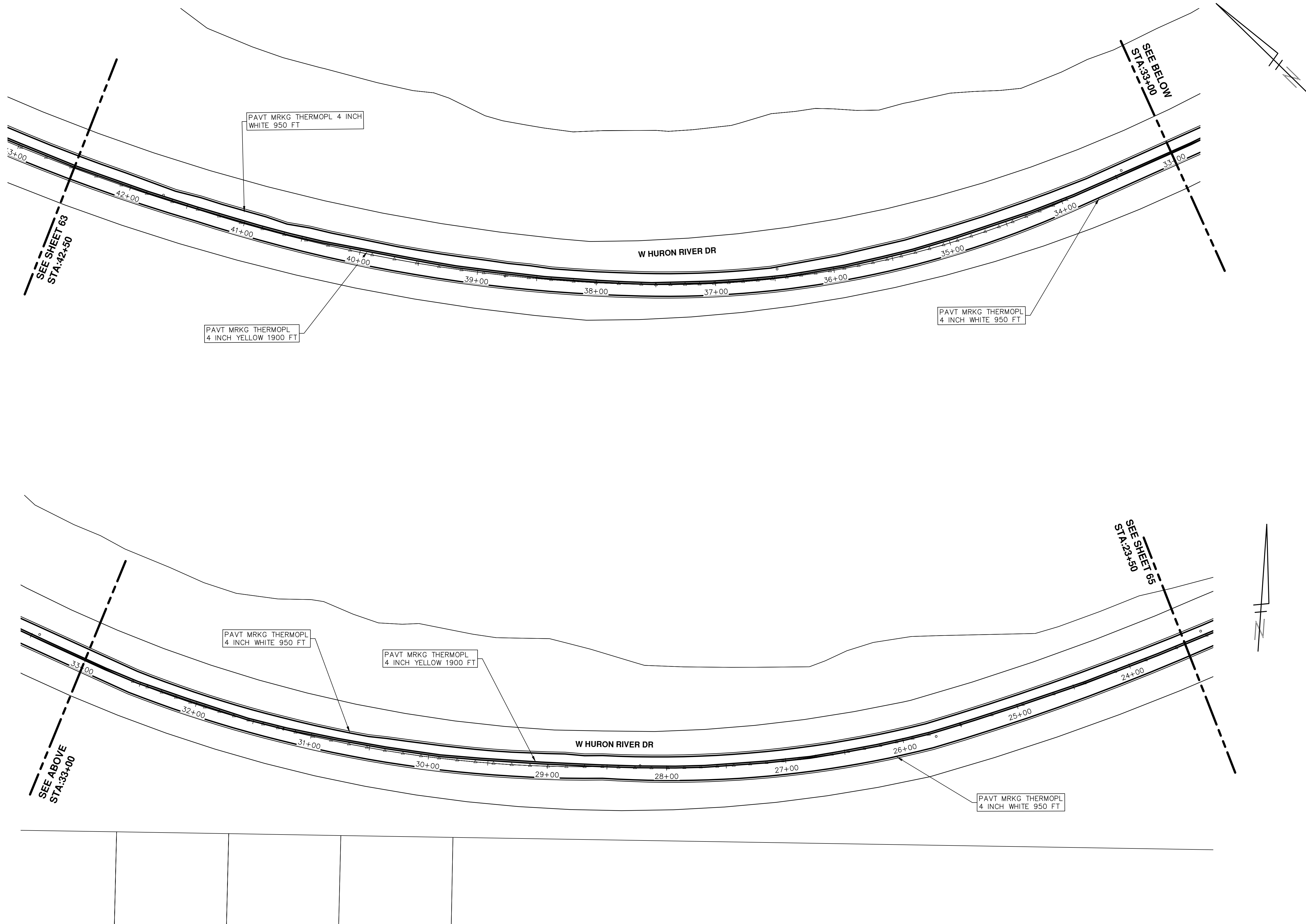
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
HURON RIVER DRIVE
PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-63

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STREET RESURFACING - 2016

HURON RIVER DRIVE

PAVEMENT MARKINGS


SCALE PLAN: 1" = 40'

DRAWING No. 2016004-64



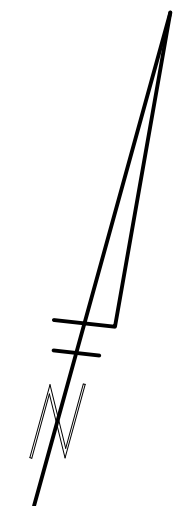
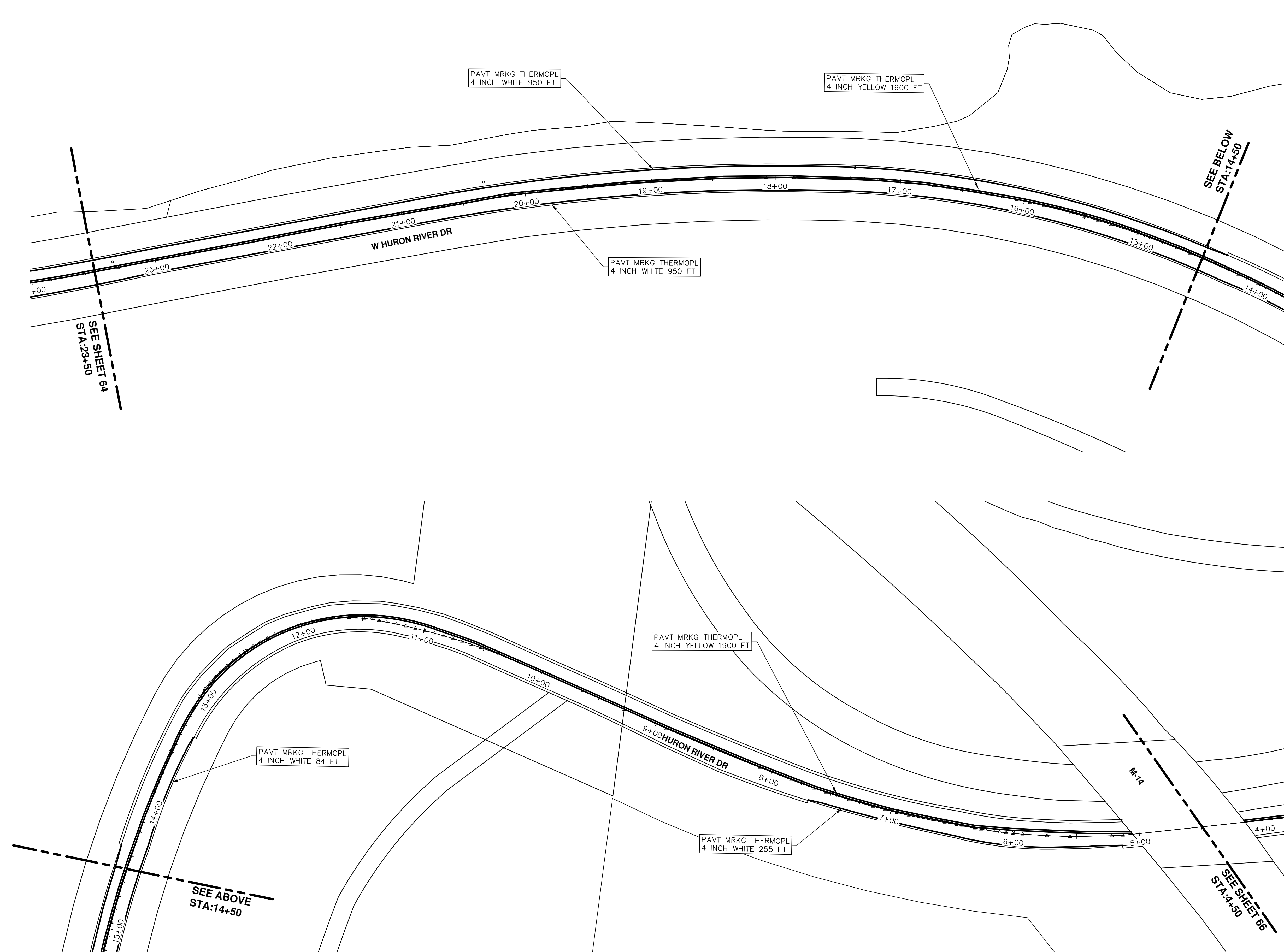
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STREET RESURFACING - 2016
 HURON RIVER DRIVE
 PAVEMENT MARKINGS

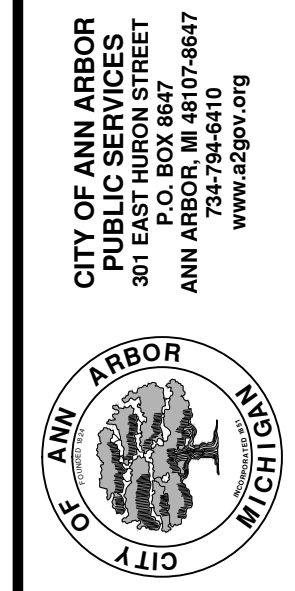
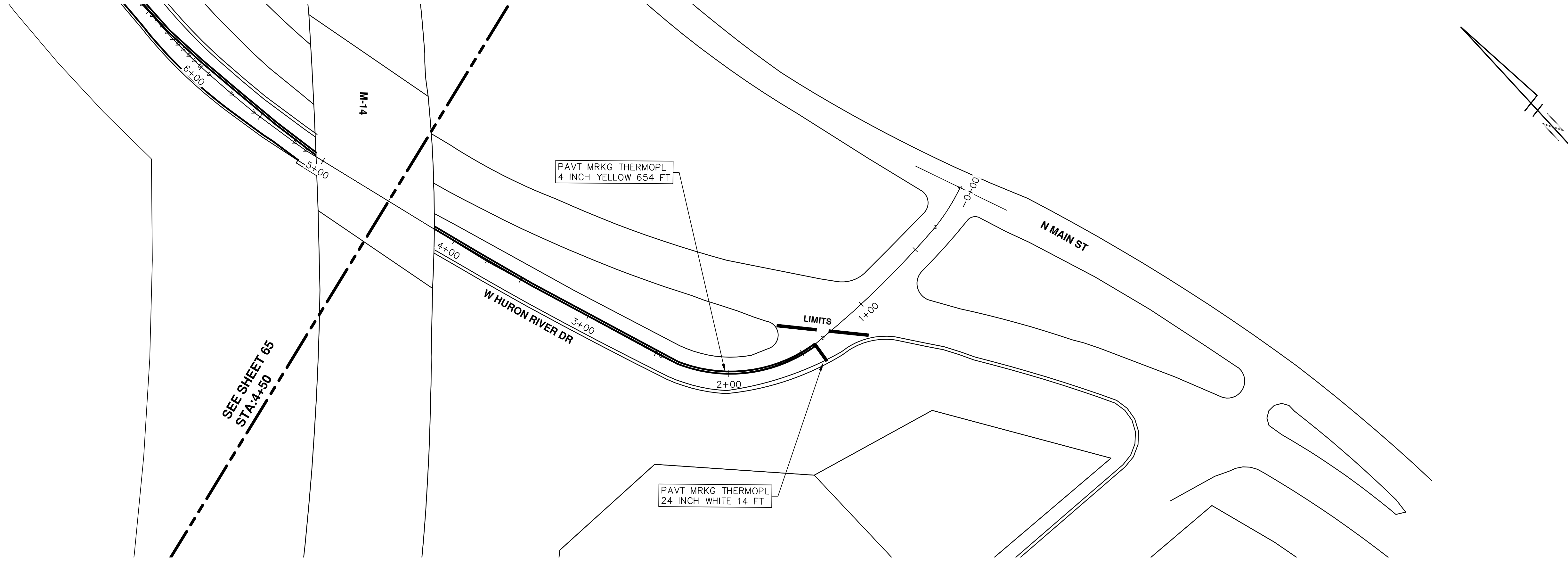
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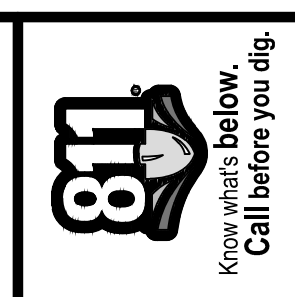
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	2-22-2016	GS AH JK	DAD



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	SS AH JK	DAD





CITY OF ANN ARBOR PROJECT MANAGEMENT STREET RESURFACING - 2016 LOCATION: HILL STREET

ITB No. 4422 FILE No. 2016004



S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-HILL.dwg Dwg Created: 16-Jan-16 - c2 standard b.w.stb - Plot Date: 7-Mar-16

Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	4.000
2030015	Sewer, Rem, Less than 24 inch	Ft	40.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Lft	160.000
2057021	Subgrade Undercutting, Type IIA	Cyd	238.000
2087050	Erosion Control, Inlet Filter	Ea	20.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	40.000
4030050	Dr Structure Cover, Type K	Ea	8.000
4030200	Dr Structure, 24 inch dia	Ea	2.000
4037001	Dr Structure Cover, Type B, Special	Ea	2.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	7.000
4037050	Dr Structure, Double Inlet	Ea	2.000
4037050	Dr Structure, Point	Ea	1.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	9.000
5010003	Cold Milling HMA Surface	Ton	262.000
5010005	HMA Surface, Rem	Syd	28.000
5010057	HMA, 5E3	Ton	202.000
5010061	HMA, Approach	Ton	60.000
6027021	Flowable Fill	Cyd	5.926
6030005	Cement	Ton	1.000
8027001	Curb and Gutter, Conc	Lft	84.000
8027001	Driveway Opening, Conc, Det M, Modified	Lft	90.000
8110049	Pav Mrg, Oly Cold Plastic, Direction Arrow Sym, Bike	Ea	3.000
8110058	Pav Mrg, Oly Cold Plastic, Bike, Small Sym	Ea	3.000
8110153	Pav Mrg, Sprayable Thermopl, 4 inch, White	Ft	116.000
8110154	Pav Mrg, Sprayable Thermopl, 4 inch, Yellow	Ft	1,212.000
8110155	Pav Mrg, Sprayable Thermopl, 6 inch, White	Ft	708.000
8110197	Pav Mrg, Thermopl, 6 inch, Crosswalk	Ft	69.000
8110218	Pav Mrg, Thermopl, 24 inch, Stop Bar	Ft	60.000
8117001	Pav Mrg, Thermopl, 24 inch, Crosswalk	Ft	48.000
8117050	Pav Mrg, Thermopl, Lt Turn Arrow Sym	Ea	1.000
8117050	Pav Mrg, Thermopl, Only	Ea	1.000
8117050	Pav Mrg, Thermopl, Railroad Sym	Ea	1.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	6.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	6.000
8120140	Lighted Arrow, Type C, Furn	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	25.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	25.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	2.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	2.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	266.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	266.500
8167011	Slope Restoration	Syd	59.000
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 •_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem •_Grading, Driveway Approach •_Grading, Sidewalk •_Grading, Sidewalk Ramp
CHE	•_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 •_Dr Structure, Rem
DSDI	•_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 I	•_Plastic Drum, High Intensity, Lighted, Furn •_Plastic Drum, High Intensity, Lighted, Oper
TYPE II	•_Barricade, Type III, High Intensity, Double Sided, Lighted, Furn •_Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊕	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊕	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊕	MONUMENT BOX
▭	REMOVE AND REPLACE CONC. SIDEWALK
▭	PLACE CONCRETE SIDEWALK
—	REMOVE & REPLACE CONC. CURB & GUTTER
- - -	CONSTRUCTION LIMITS
- · -	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▭	SUBGRADE UNDERCUT

Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sqft)	Total
13.0	D3-1	Street Name Sign	4.000	52.000
1.0	M4-10L	Detour Arrow (Left) Sign	6.000	6.000
1.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	5.000
3.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	15.000
1.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	5.000
0.0	R11-2	Road Closed Sign ("Road Closed")	10.000	0.000
3.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	37.500
1.0	R3-1	Movement Prohibition Sign ("No Right Turn")	4.000	4.000
1.0	R3-8	Advance Intersection Lane Control Sign (Left Turn Only or Right Turn Only)	7.500	7.500
1.0	R3-8	Advance Intersection Lane Control Sign (Thru Only or Right Turn Only)	7.500	7.500
2.0	R6-1L	One Way (Left) Sign	3.000	6.000
2.0	SP-1	Special Sign	20.000	40.000
4.0	W20-1	Road Work Ahead Sign	9.000	36.000
1.0	W20-2	Detour Ahead Sign	9.000	9.000
4.0	W20-3	Road Closed Ahead Sign	9.000	36.000
		TOTAL		266.500

CONSTRUCTION METHOD AND SEQUENCING

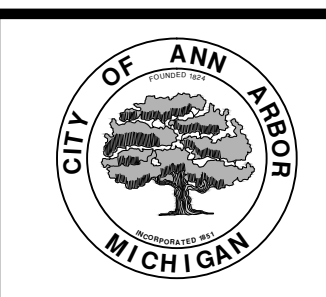
1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
2. IMPLEMENT MAINTENANCE OF TRAFFIC, AND SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. REMOVE TOP 1.5 INCHES OF EXISTING ROADWAY HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK AS DIRECTED BY THE ENGINEER.
7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
8. GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 1.5 INCHES OF TOP COURSE HMA MIX AS SPECIFIED OR DIRECTED BY THE ENGINEER.
11. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. REMOVE ALL 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.

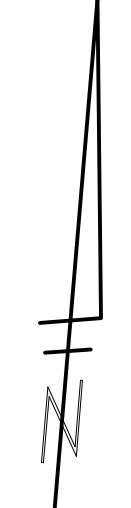
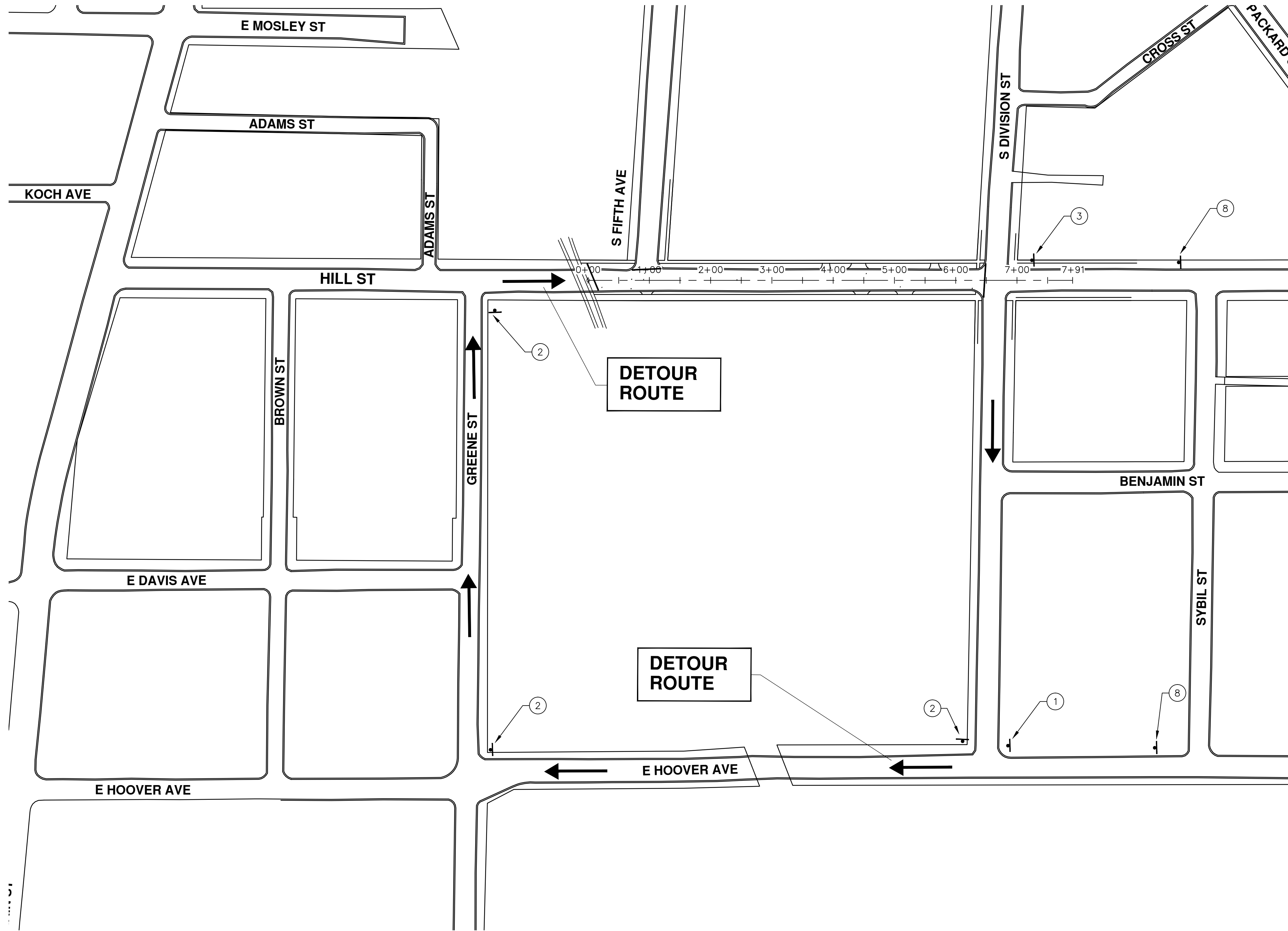
THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, IT'S DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE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



PROJECT MANAGEMENT SERVICES UNIT
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

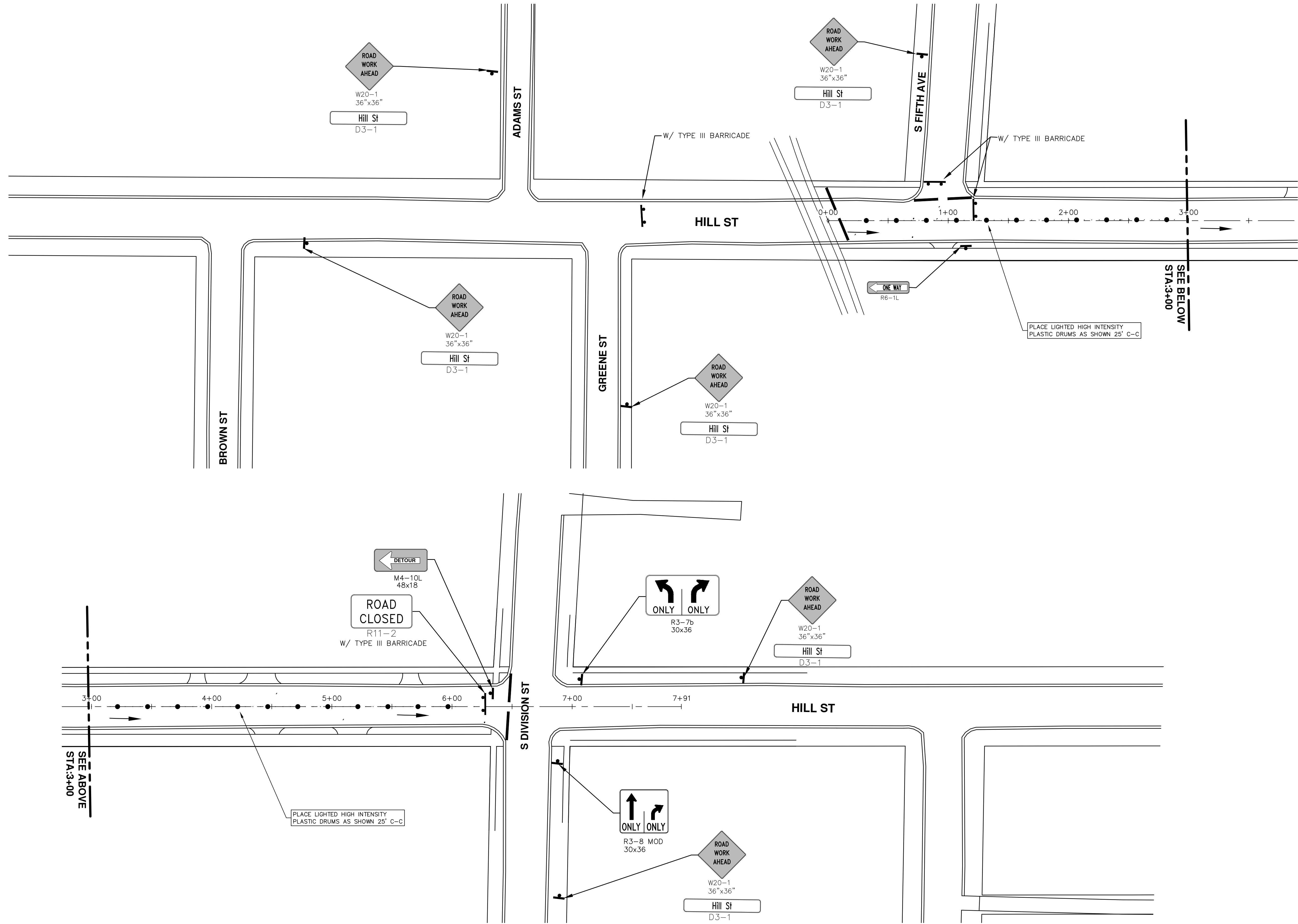
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
HILL STREET
PROJECT DESCRIPTION
DRAWING No. 2016004-67
SHEET No. 67 OF 97


TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
①		D3-1 M4-9S 30x24
②		D3-1 M4-9R 30x24
③		D3-1 M4-9L 30x24
⑥		D3-1 M4-8a 24x18
⑦		R11-4 60x30
⑧		SPECIAL 48x60
⑨		SPECIAL 48x60



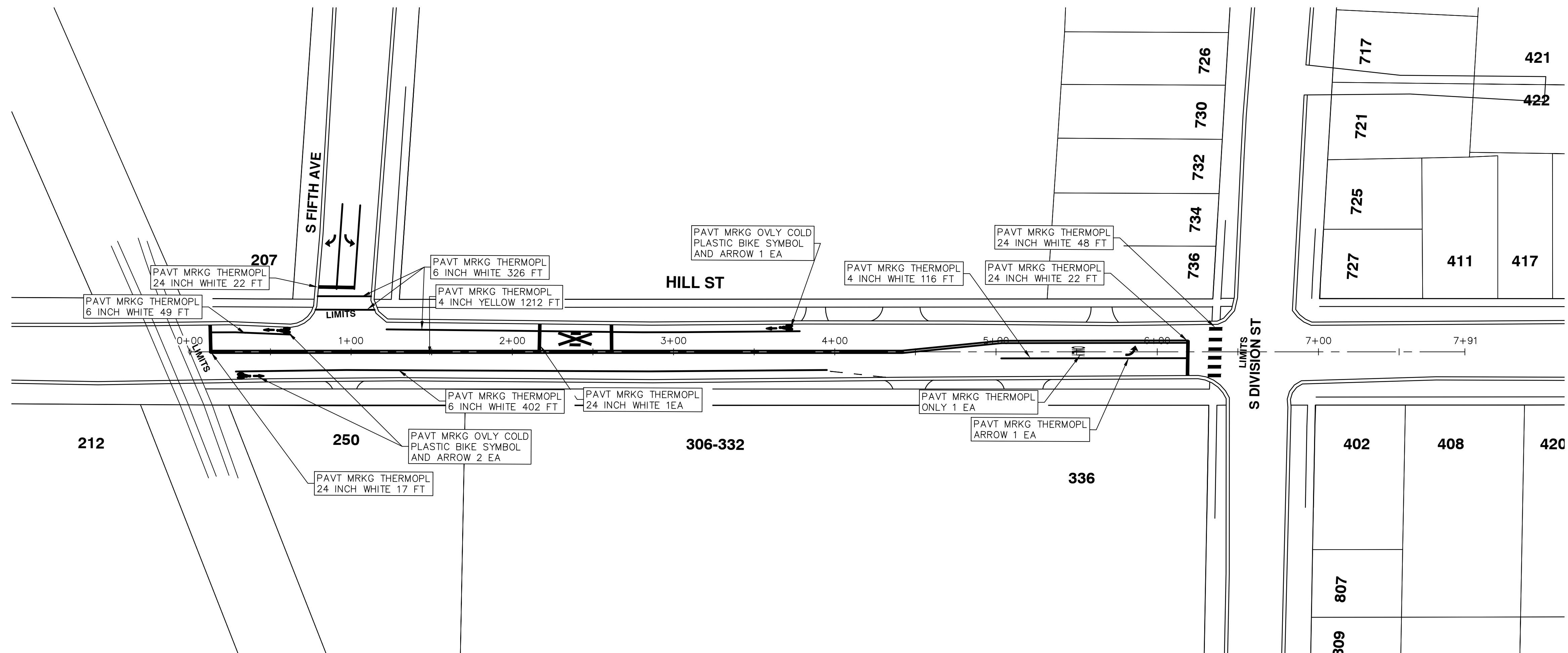
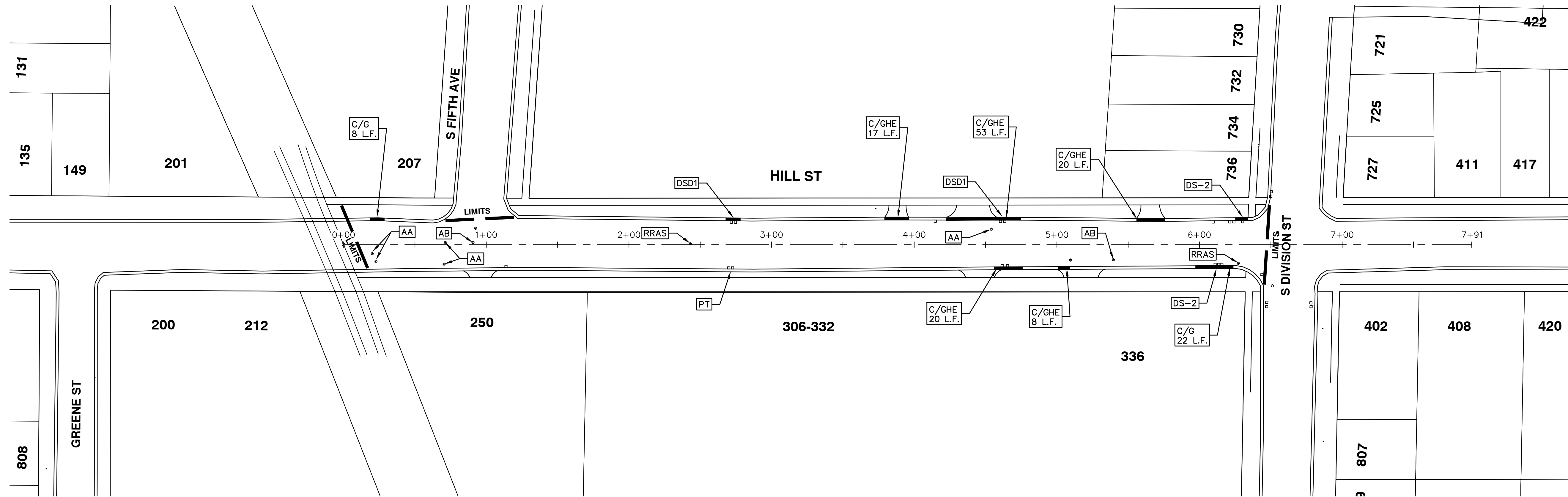
		CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-3667 www.a2gov.org	
01	ADDENDUM #1	3-7-2016	DAD
00	BID SET	2-22-2016	ISS. AH UK
REV.	DESCRIPTION	DATE	DRAWN CHECKED
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR STREET RESURFACING - 2016 HILL STREET DETOUR			
SCALE PLAN: 1" = 100' 		DRAWING No. 2016004-68	
SHEET No. 68 OF 97		811 Know what's below. Call before you dig.	

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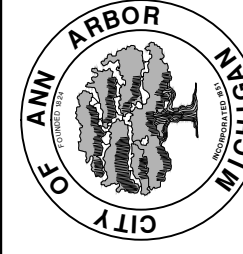
 <p>Know what's below. Call Before you dig.</p>	
<p>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR STREET RESURFACING - 2016 HILL STREET TRAFFIC CONTROL</p>	<p>01 ADDENDUM #1 3-7-2016 00 BID SET 2-22-2016 REV. DESCRIPTION DATE DRAWN CHECKED</p>
<p>CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 www.a2gov.org</p>	
<p>SCALE PLAN: 1" = 40' DRAWING No. 2016004-69 SHEET No. 69 OF 97</p>	

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	SS AH UK	DAD

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



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
HILL STREET
RESURFACING & PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-70



CITY OF ANN ARBOR PROJECT MANAGEMENT STREET RESURFACING - 2016

LOCATION: PACKARD ROAD & EISENHOWER PARKWAY

ITB No. 4422 FILE No. 2016004

Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	7.000
2030015	Sewer, Rem, Less than 24 inch	Ft	70.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Lft	1,300.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	69.000
2057011	Grading, Driveway Approach	Syd	48.000
2057011	Grading, Sidewalk	Syd	12.000
2057011	Grading, Sidewalk Ramp	Syd	9.000
2057011	Machine Grading, Special	Syd	147.000
2057021	Subgrade Undercutting, Type IIA	Cyd	1,271.000
2087050	Erosion Control, Inlet Filter	Ea	24.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	70.000
4030010	Dr Structure Cover, Type B	Ea	7.000
4030050	Dr Structure Cover, Type K	Ea	11.000
4030200	Dr Structure, 24 inch dia	Ea	6.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	9.000
4037050	Dr Structure, Double Inlet	Ea	1.000
4037050	Dr Structure, Point	Ea	1.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	9.000
5010003	Cold Milling HMA Surface	Ton	1,078.000
5010005	HMA Surface, Rem	Syd	414.000
5010057	HMA, 5E3	Ton	1,078.000
6027021	Flowable Fill	Cyd	48.148
6030005	Cement	Ton	3.000
8017011	Driveway, Nonreinf Conc, 8 inch, Modified	Syd	48.000
8027001	Curb and Gutter, Conc	Lft	1,188.000
8027001	Driveway Opening, Conc, Det M, Modified	Lft	132.000
8037001	Detectable Warning Surface, Modified	Ft	10.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	80.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	60.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	47.500
8110049	Pav Mrlg, Ovy Cold Plastic, Direction Arrow Sym, Bike	Ea	1.000
8110058	Pav Mrlg, Ovy Cold Plastic, Bike, Small Sym	Ea	1.000
8110153	Pav Mrlg, Sprayable Thermopl, 4 inch, White	Ft	1,961.000
8110154	Pav Mrlg, Sprayable Thermopl, 4 inch, Yellow	Ft	1,690.000
8110155	Pav Mrlg, Sprayable Thermopl, 6 inch, White	Ft	670.000
8110218	Pav Mrlg, Thermopl, 24 inch, Stop Bar	Ft	167.000
8117001	Pav Mrlg, Thermopl, 24 inch, Crosswalk	Ft	264.000
8117050	Pav Mrlg, Thermopl, Only	Ea	3.000
8117050	Pav Mrlg, Thermopl, School	Ea	3.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Fum	Ea	8.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	8.000
8120140	Lighted Arrow, Type C, Fum	Ea	2.000
8120141	Lighted Arrow, Type C, Oper	Ea	2.000
8120210	Pav Mrlg, Longit, 6 inch or Less Width, Rem	Ft	40.000
8120260	Plastic Drum, High Intensity, Lighted, Fum	Ea	185.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	185.000
8120330	Sign, Portable, Changeable Message, Fum	Ea	4.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	4.000
8120350	Sign, Type B, Temp, Prismatic, Fum	Sft	419.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	419.000
8167011	Slope Restoration	Syd	477.000

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 •_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem •_Grading, Driveway Approach •_Grading, Sidewalk •_Grading, Sidewalk Ramp
CHE	•_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 •_Dr Structure, Rem
DSDI	•_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 I	•_Plastic Drum, High Intensity, Lighted, Fum •_Plastic Drum, High Intensity, Lighted, Oper
TYPE II	•_Barricade, Type III, High Intensity, Double Sided, Lighted, Fum •_Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊕	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊕	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊕	MONUMENT BOX
▬	REMOVE AND REPLACE CONC. SIDEWALK
▬	PLACE CONCRETE SIDEWALK
▬	REMOVE & REPLACE CONC. CURB & GUTTER
▬	CONSTRUCTION LIMITS
▬	6" WRAPPED UNDERDRAIN
▬	REMOVE CONCRETE SIDEWALK
▬	SUBGRADE UNDERCUT

Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total
17.0	D3-1	Street Name Sign	4.000	68.000
1.0	M4-10R	Detour Arrow (Right) Sign	6.000	6.000
1.0	M4-8a	End Detour Sign	3.000	3.000
6.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	30.000
1.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	5.000
1.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	5.000
6.0	R11-2	Road Closed Sign ("Road Closed")	8.000	48.000
1.0	R11-3a	Road Closed Sign ("Road Closed Local Traffic Only")	12.500	12.500
0.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	0.000
2.0	R2-1	Speed Limit (25 MPH)	5.000	10.000
2.0	R2-5B	Reduce Speed Ahead (25 MPH)	5.000	10.000
4.0	R3-1	Movement Prohibition Sign ("No Right Turn")	4.000	16.000
1.0	R3-2	Movement Prohibition Sign ("No Left Turn")	5.000	5.000
3.0	R3-8	Advance Intersection Lane Control Sign (Left Turn On;y or Right Turn Only)	7.500	22.500
2.0	R5-18cLA	Work Zone Sign ("Work Zone Begins / Traffic Fines Doubled")	17.500	35.000
3.0	R6-1L	One Way (Left) Sign	3.000	9.000
5.0	R6-1R	One Way (Right) Sign	3.000	15.000
0.0	R6-2R	One Way	3.000	0.000
4.0	SP-1	Special Sign	20.000	80.000
1.0	W1-6R	One-Direction (Right) Large Arrow	3.000	3.000
0.0	W20-1	Road Work Ahead Sign	9.000	0.000
1.0	W20-3	Road Closed Ahead	9.000	9.000
1.0	W20-5	Lane Closed Sign ("Center Lane Closed Ahead")	9.000	9.000
1.0	W20-5	Lane Closed Sign ("Right Lane Closed Ahead")	9.000	9.000
1.0	W9-3L	Left Lane Closed Ahead	9.000	9.000
		TOTAL		419.000

CONSTRUCTION METHOD AND SEQUENCING

1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
2. IMPLEMENT MAINTENANCE OF TRAFFIC, AND SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. REMOVE TOP 1.5 INCHES OF EXISTING ROADWAY HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK AS DIRECTED BY THE ENGINEER.
7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
8. GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 1.5 INCHES OF TOP COURSE HMA MIX AS SPECIFIED OR DIRECTED BY THE ENGINEER.
11. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. REMOVE ALL 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 THIS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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



PROJECT MANAGEMENT SERVICES UNIT
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

S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-PAKARD.dwg Dwg Created: 18-Dec-15 - 02 standard bw.stb - Plot Date: 7-Mar-16



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
PROJECT DESCRIPTION
STREET RESURFACING - 2016
PACKARD ROAD & EISENHOWER PARKWAY
DRAWING No.
2016004-71

S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-PACKARD.dwg Dwg Created: 18-Dec-15 - _g2 standard bw.stb - Plot Date: 7-Mar-16

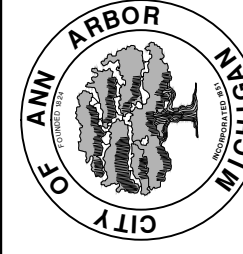
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①		D3-1 M4-9S 30x24
②		D3-1 M4-9R 30x24
③		D3-1 M4-9L 30x24
⑥		D3-1 M4-8a 24X18
⑦		R11-4 60x30
⑧		SPECIAL 48x60
⑨		SPECIAL 48x60
⑫		SPECIAL 48x60



Know what's below. Call before you dig.

REV.	DATE	DRAWN	CHECKED	DESCRIPTION
01	3-7-2016	DAD	DAD	ADDENDUM #1
00	2-22-2016	SS AH UK	DAD	BID SET

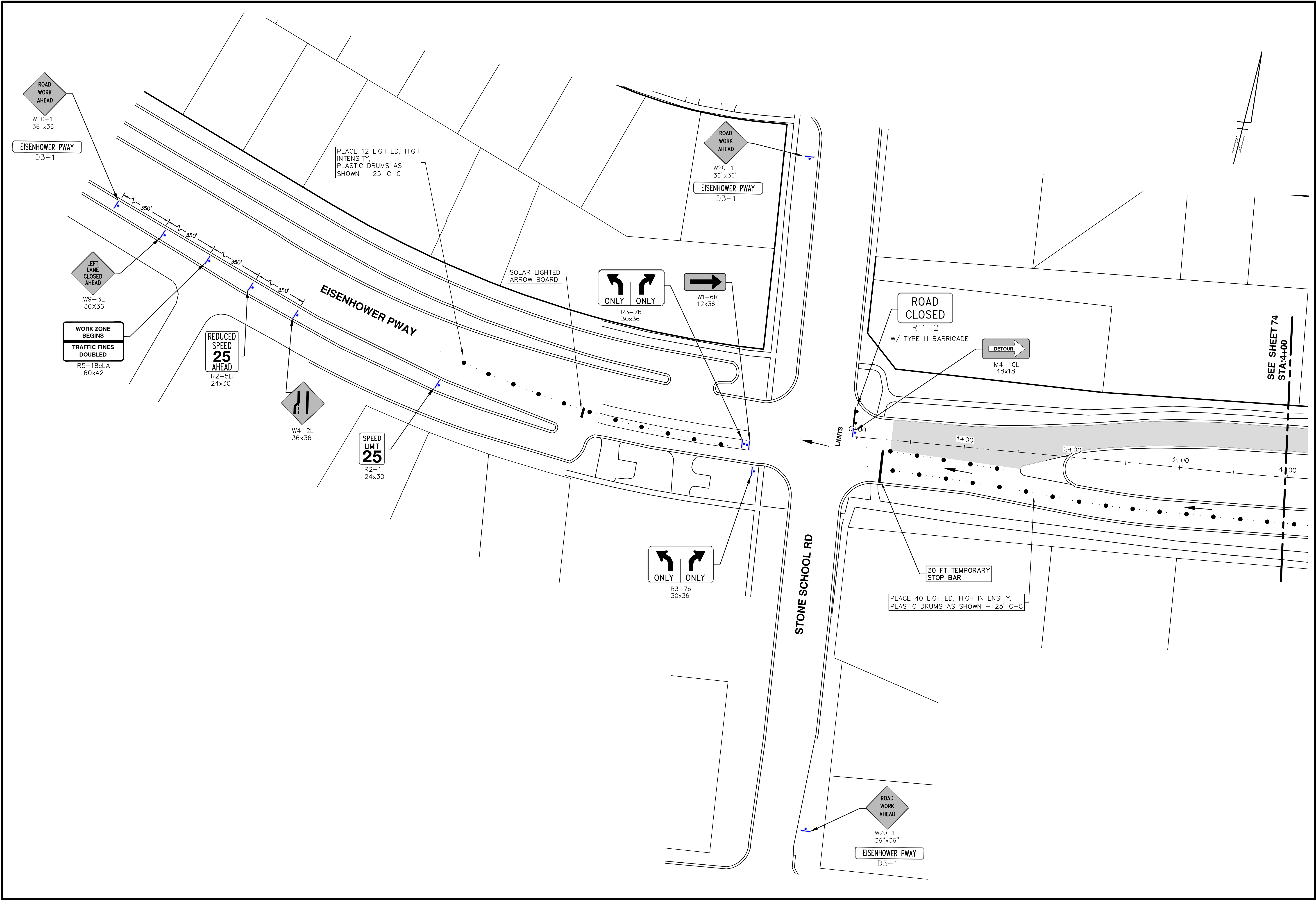
CITY OF ANN ARBOR
PUBLIC SERVICES
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www.a2gov.org



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
PACKARD ROAD & EISENHOWER PARKWAY

SCALE PLAN: Custom
DRAWING No. 2016004-72

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811
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REV.	DATE	DRAWN	CHECKED
01	3-7-2016	DAD	DAD
00	2-22-2016	GS AH JK	DAD

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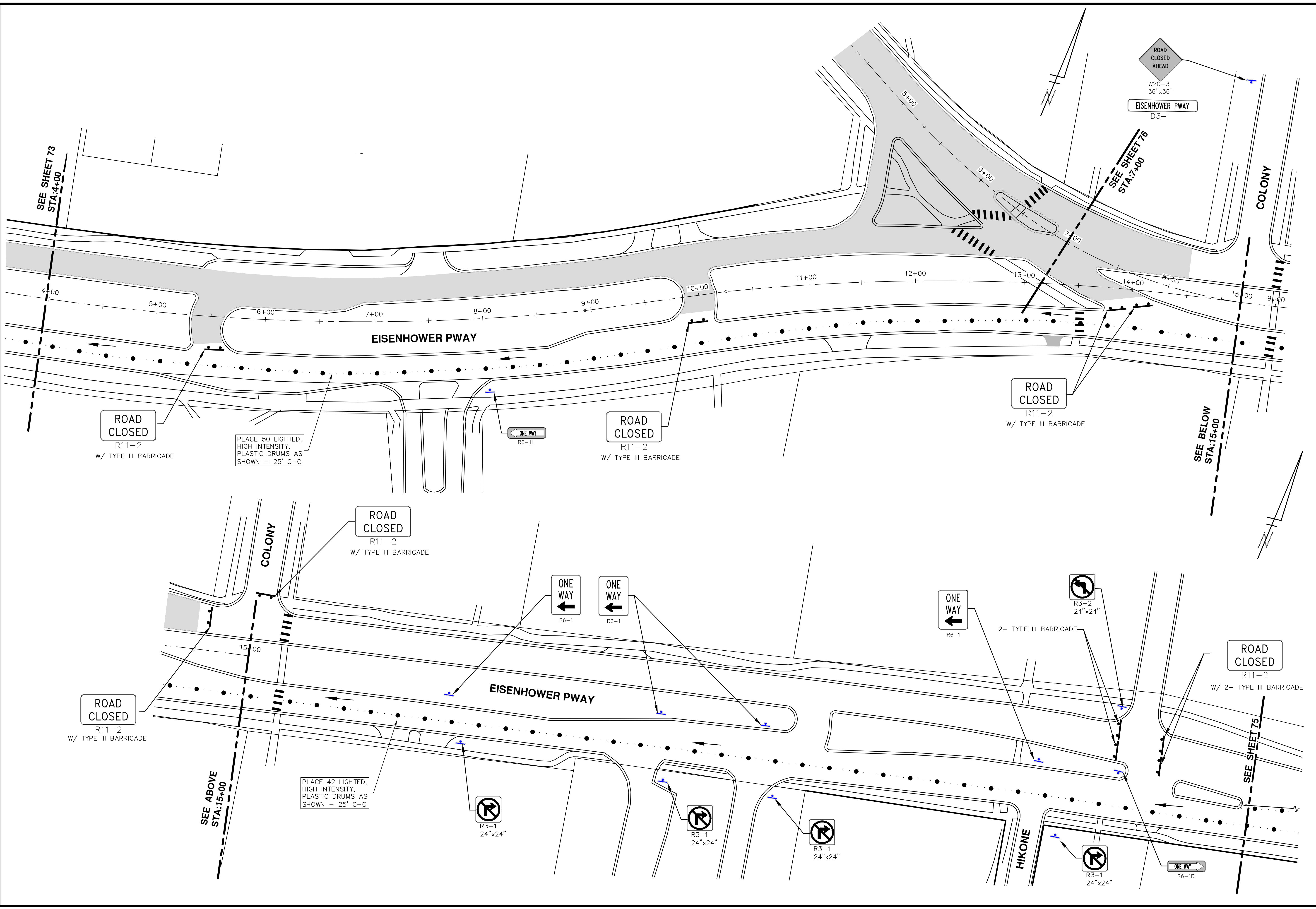
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
PACKARD ROAD & EISENHOWER PARKWAY
TRAFFIC CONTROL STAGE 1


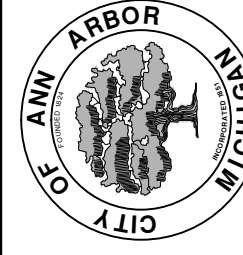
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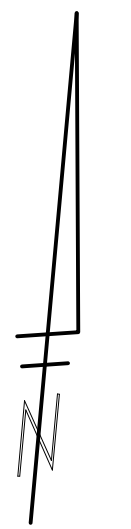
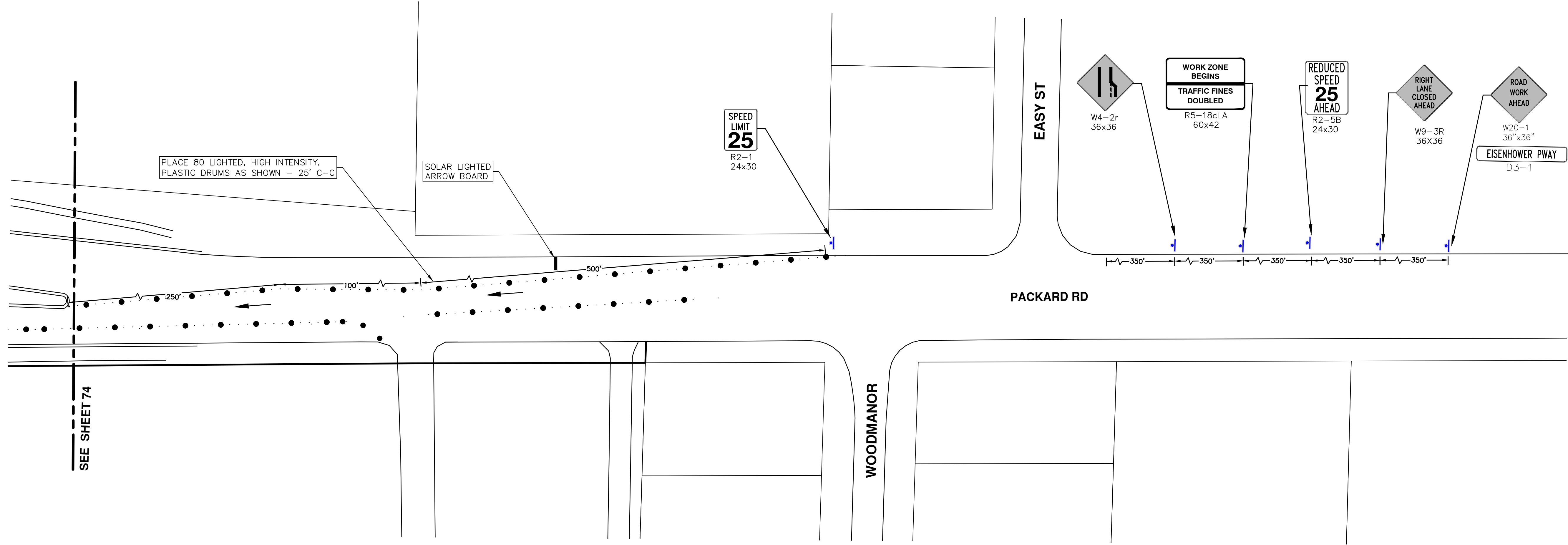
DRAWING No. 2016004-73

SHEET No. 73 OF 97

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 Know what's below. Call Before you dig.	
REV.	DESCRIPTION
01	ADDENDUM #1
00	BID SET
DATE	2-22-2016
DRAWN	SS AH UK
CHECKED	DAD
	DAD
	DAD
	DAD
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-0667 ANN ARBOR MI 734-794-4410 www.a2gov.org	
	
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR STREET RESURFACING - 2016 PACKARD ROAD & EISENHOWER PARKWAY TRAFFIC CONTROL STAGE 1	
SCALE PLAN: 1" = 40' DRAWING No. 2016004-74 SHEET No. 74 OF 97	

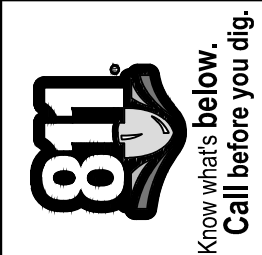


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 STREET RESURFACING - 2016
 PACKARD ROAD & EISENHOWER PARKWAY
 SCALE: 1" INCH = 40 FEET
 DRAWING No. 2016004-75

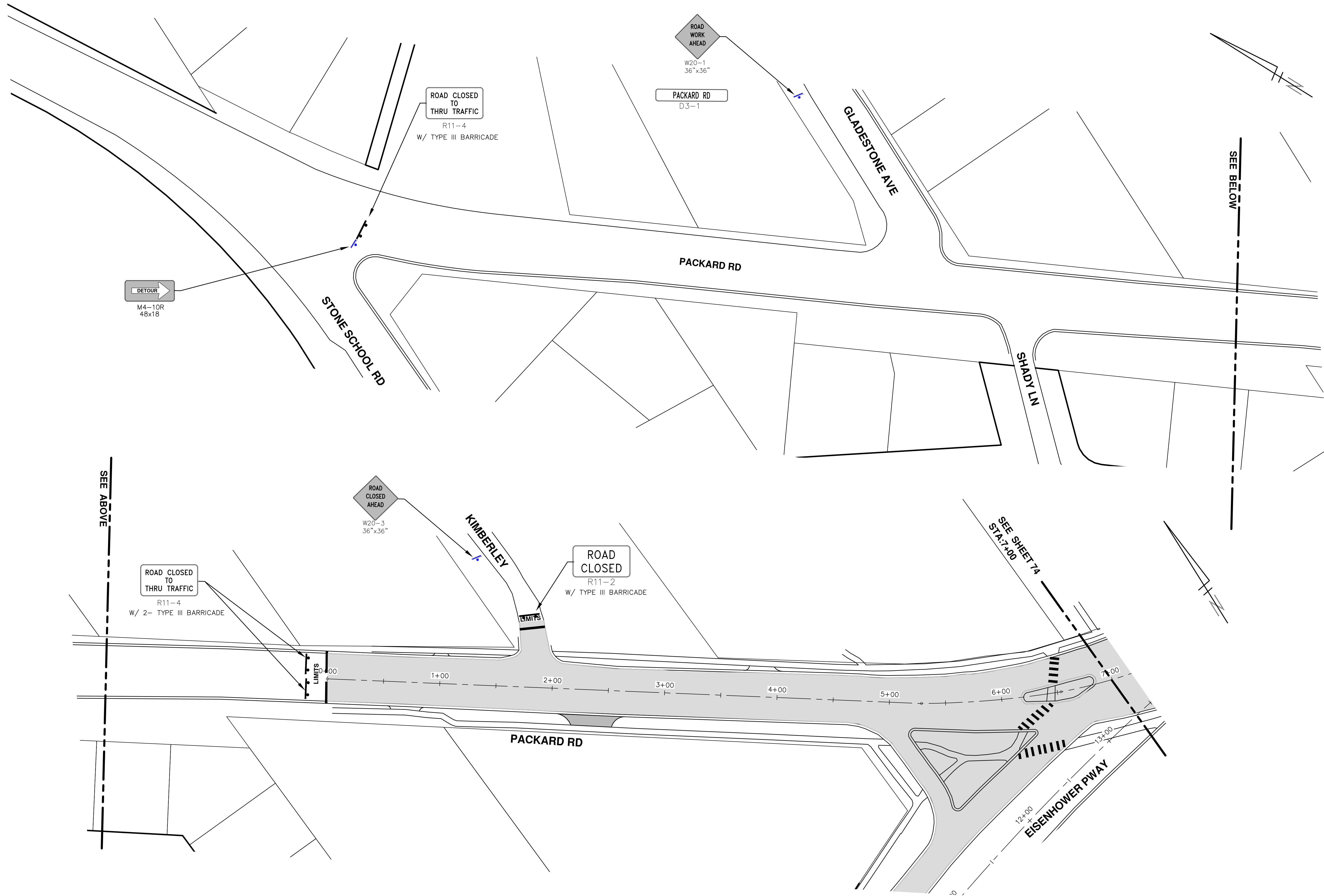
TRAFFIC CONTROL STAGE 1


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	SS AH JK	DAD

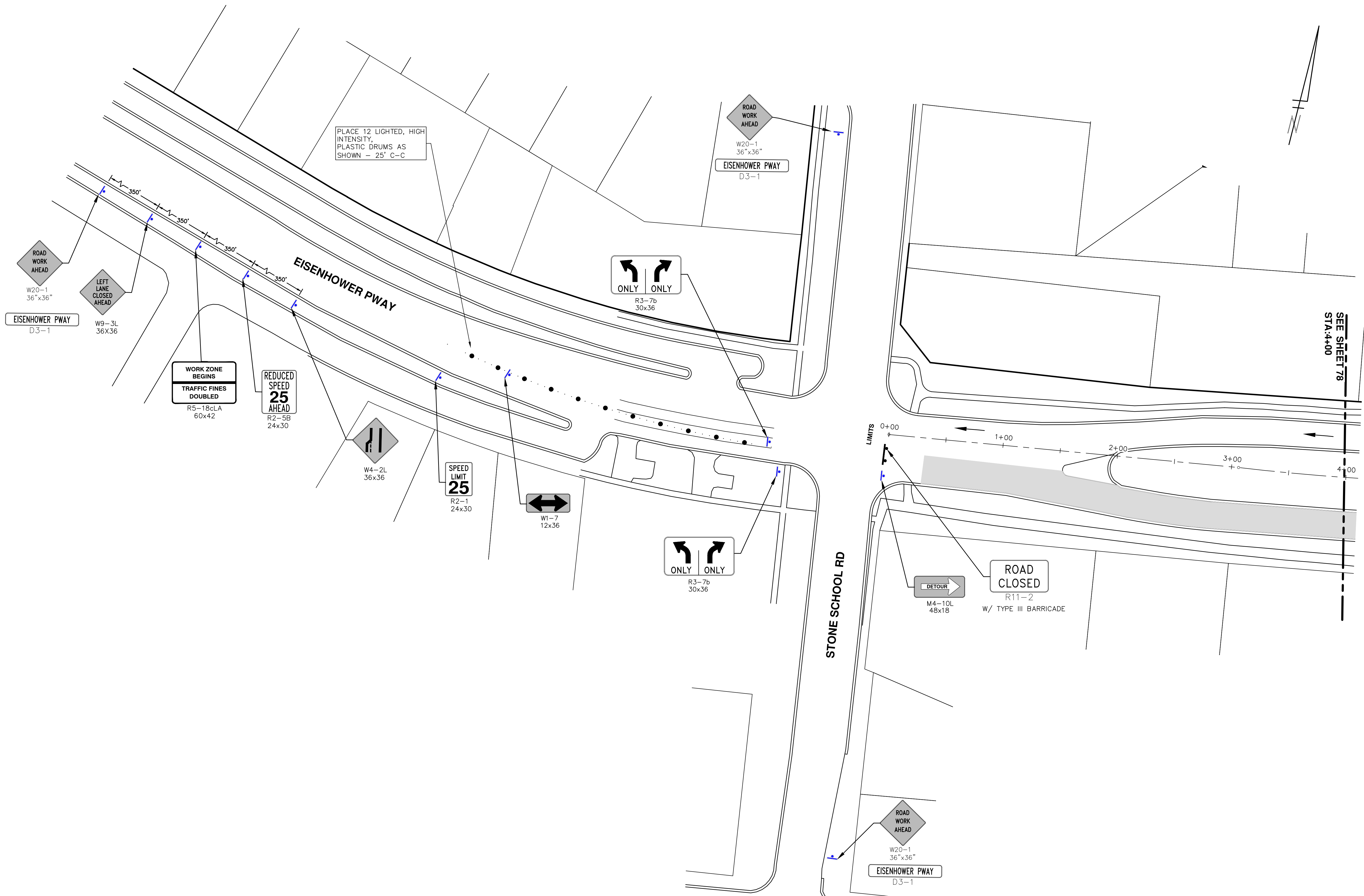


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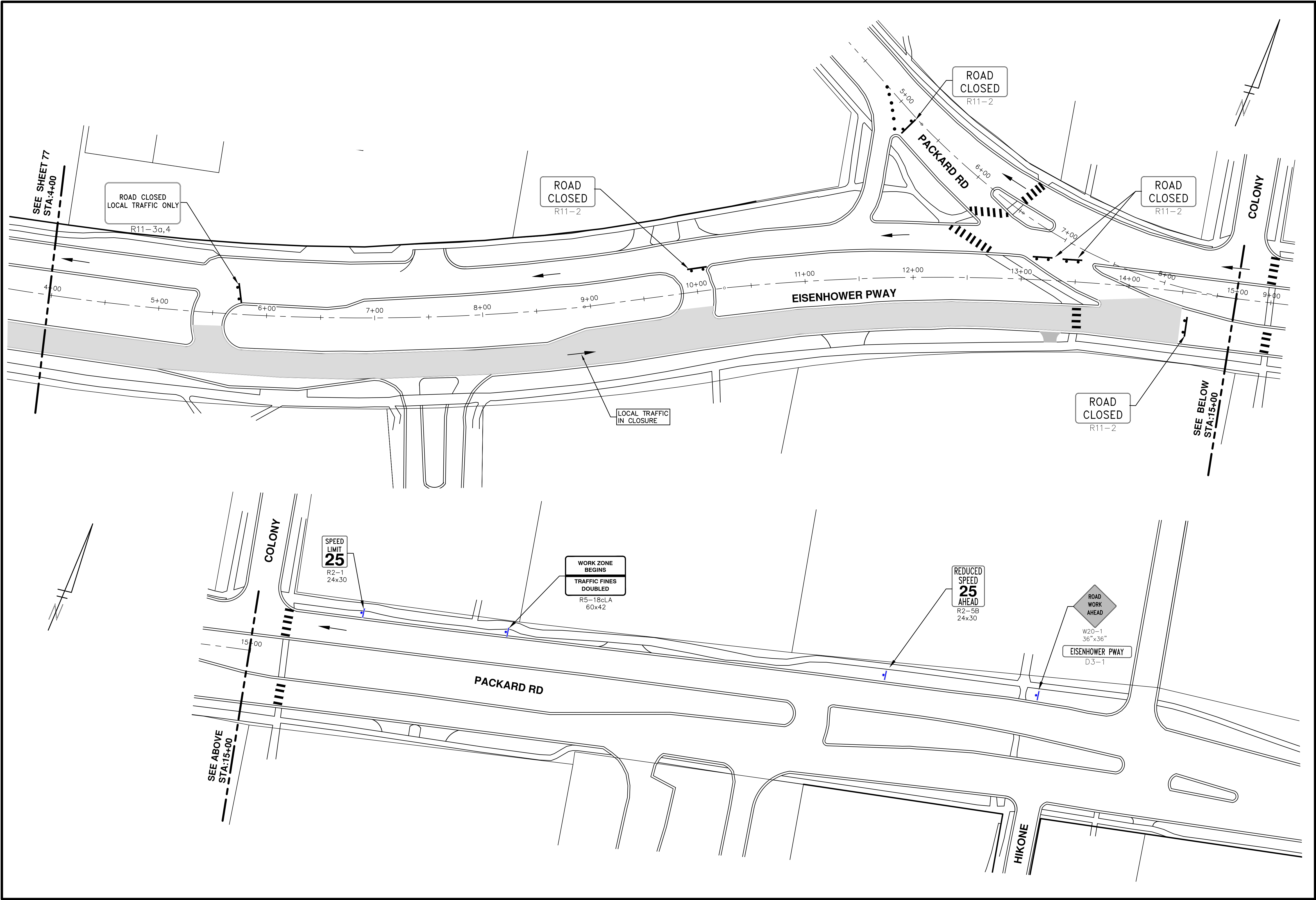
 CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-1667 www.a2gov.org		ADDENDUM #1 3-7-2016 DAD	DAD
BID SET 2-22-2016 DATE	ISS. BY JH	DRAWN JH	CHECKED JH
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR STREET RESURFACING - 2016 PACKARD ROAD & EISENHOWER PARKWAY TRAFFIC CONTROL STAGE 1		DESCRIPTION DATE REV.	
SCALE PLAN: 1" = 40' DRAWING No. 2016004-76		SHEET No. 76 OF 97	

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<p>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR STREET RESURFACING - 2016 PACKARD ROAD & EISENHOWER PARKWAY TRAFFIC CONTROL STAGE II</p>	<p>SCALE PLAN: 1" = 40'</p> <p>DRAWING No. 2016004-77</p>
<p>CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-0667 www.a2gov.org</p>	<p>REV. 00 01</p> <p>DATE 2-22-2016 3-7-2016</p> <p>DESCRIPTION DRAWN CHECKED</p>
<p>77 OF 97</p>	

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 PACKARD ROAD & EISENHOWER PARKWAY
 TRAFFIC CONTROL STAGE II

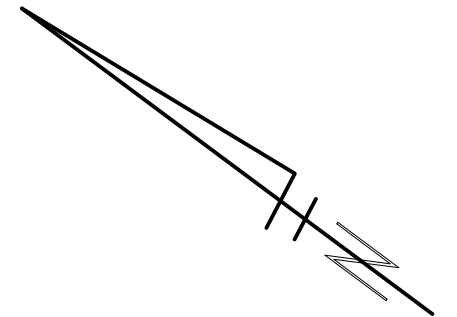
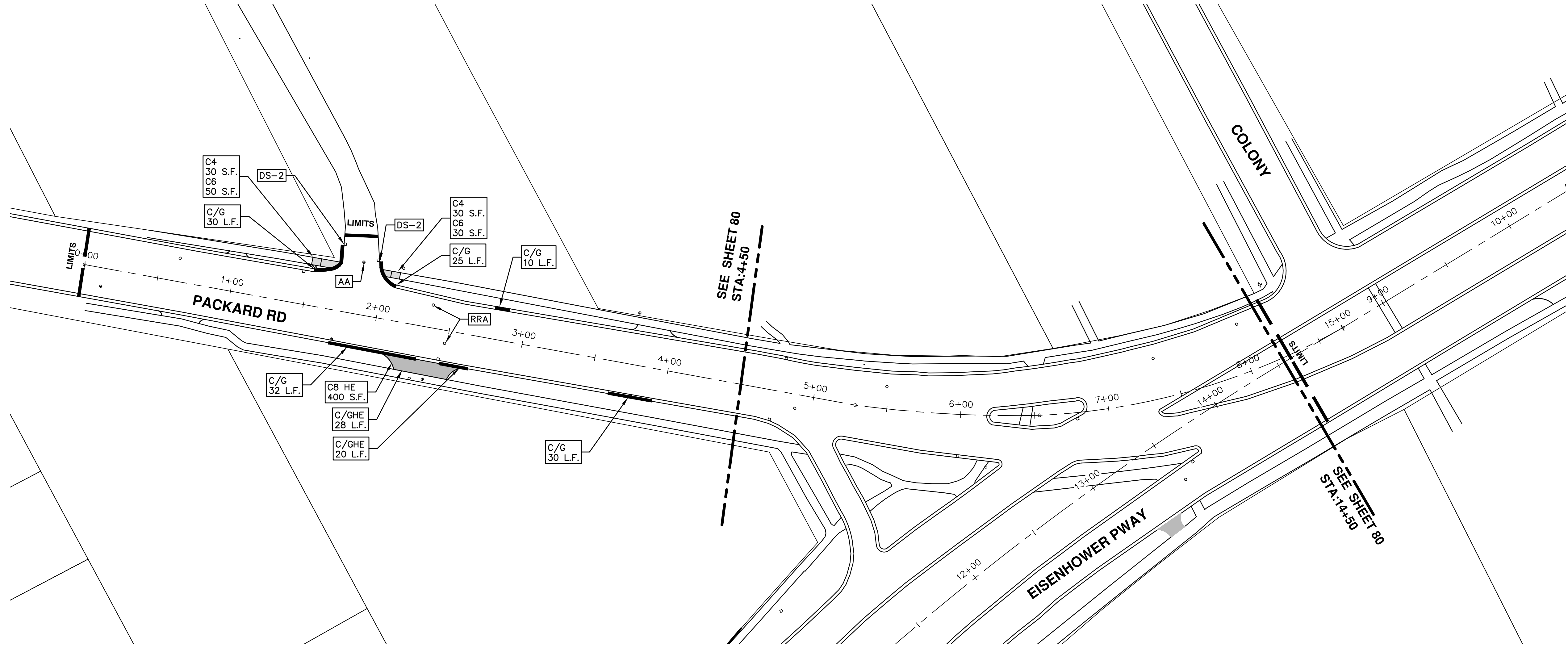
SCALE PLAN: 1" = 40'
 DRAWING No. 2016004-78

811
 Know what's below.
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00	2-22-2016	BID SET	GS AH JK	DAD

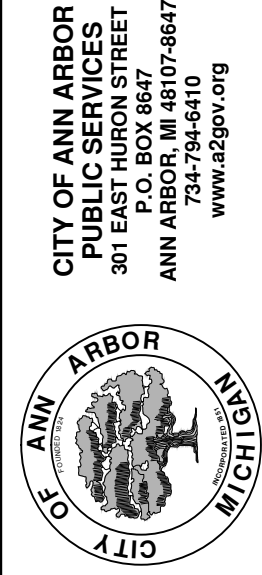
CITY OF ANN ARBOR
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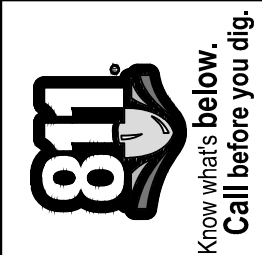
SHEET No.
79 OF 97

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 PACKARD ROAD & EISENHOWER PARKWAY
 SCALE PLAN: 1" = 40'
 DRAWING No. **2016004-79**

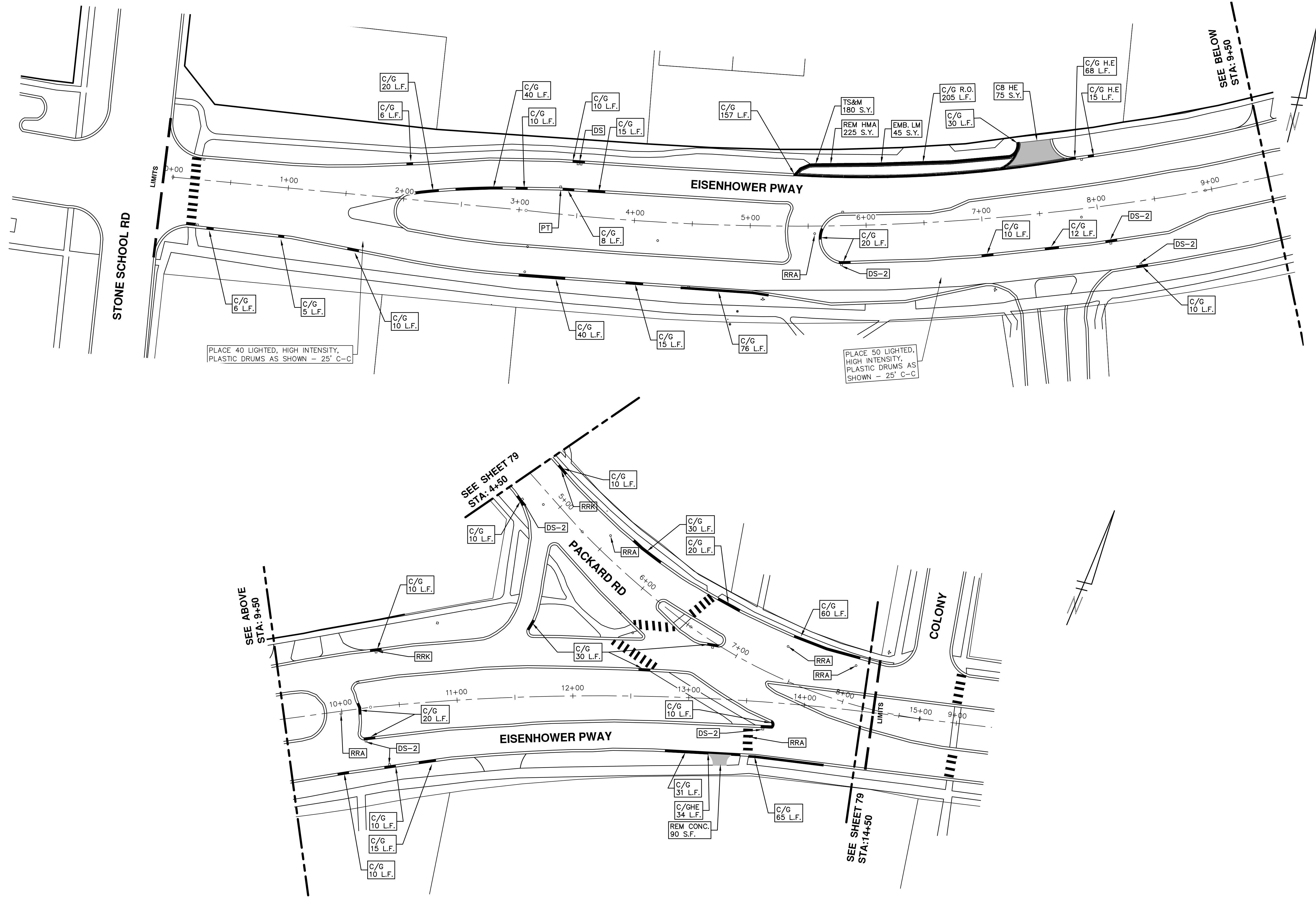


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	GS AH JK	DAD



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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 PACKARD ROAD & EISENHOWER PARKWAY
 RESURFACING

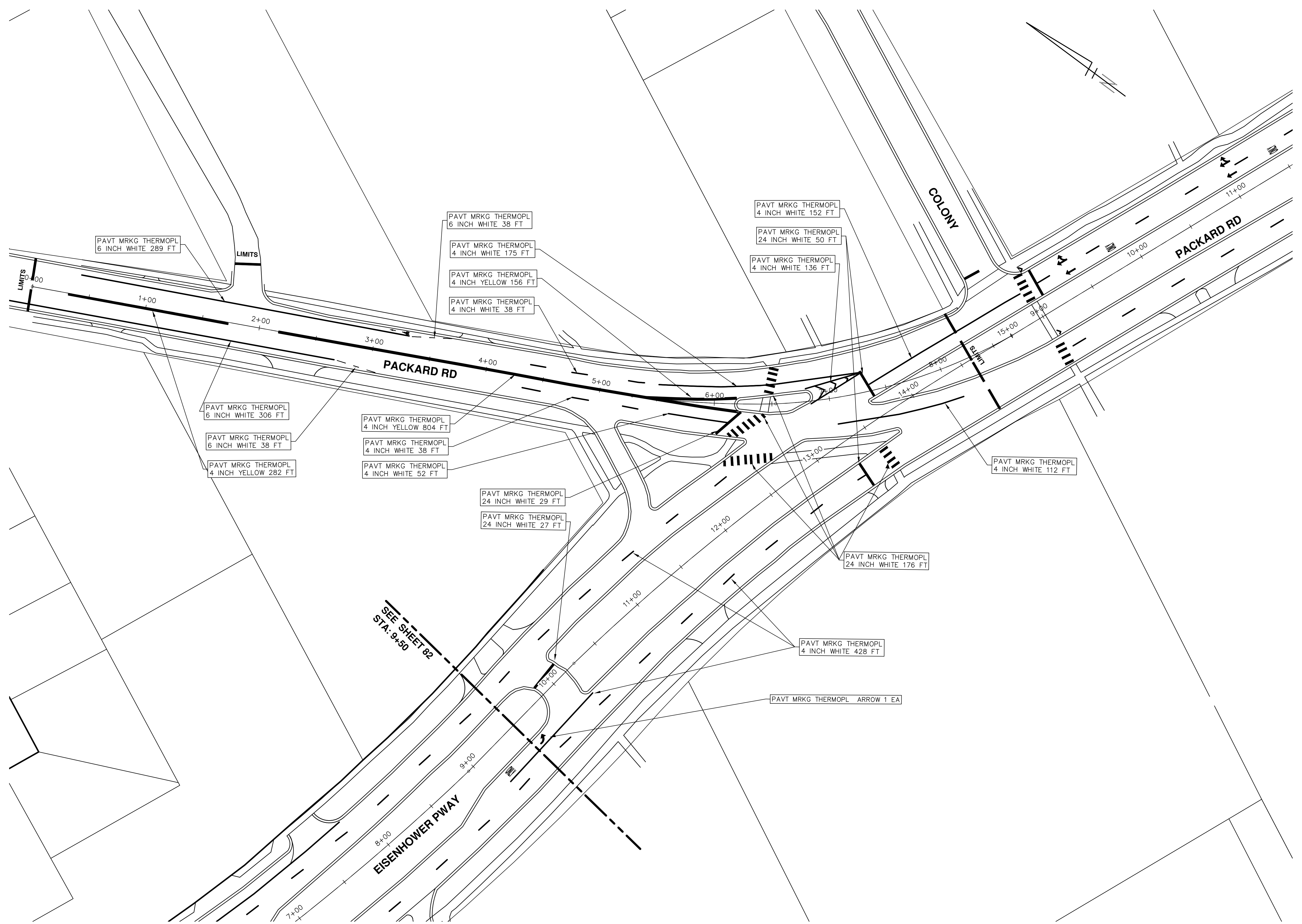
SCALE PLAN: 1" = 40'
 DRAWING No. 2016004-80

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	GS AH JK	DAD

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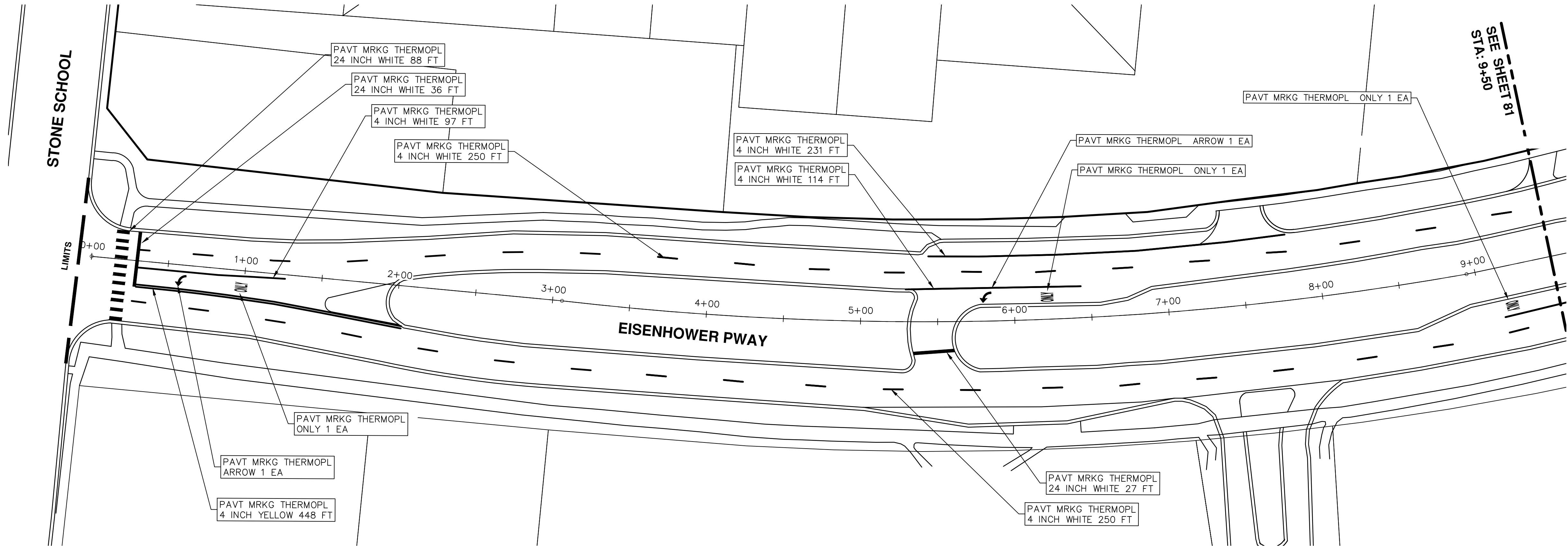
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01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	SS AH JK	DAD

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 ANN ARBOR MI 48108-6647
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 PACKARD ROAD & EISENHOWER PARKWAY
 PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'
 DRAWING No. **2016004-81**

S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-PACK.ARD.dwg Dwg Created: 18-Dec-15 - _g2 standard bw.stb - Plot Date: 7-Mar-16



SHEET No.
82 OF 97

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 PACKARD ROAD & EISENHOWER PARKWAY
 PAVEMENT MARKINGS



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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	3-7-2016	ADDENDUM #1	DAD	DAD
00	2-22-2016	BID SET	SS AH JK	DAD





CITY OF ANN ARBOR PROJECT MANAGEMENT STREET RESURFACING - 2016 LOCATION: TACOMA CIRCLE

ITB No. 4422 FILE No. 2016004

CONSTRUCTION METHOD AND SEQUENCING

1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
2. IMPLEMENT MAINTENANCE OF TRAFFIC, AND SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. REMOVE TO 4.0 INCHES OF EXISTING ROADWAY HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK AS DIRECTED BY THE ENGINEER.
7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
8. GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. PAVE 2.0 INCHES OF LEVELING COURSE HMA MIX (LOCAL STREETS) AS SPECIFIED OR DIRECTED BY THE ENGINEER.
10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
11. PAVE 2.0 INCHES OF TOP COURSE HMA MIX (LOCAL STREETS) AS SPECIFIED OR DIRECTED BY THE ENGINEER.
12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN UP AND FINAL RESTORATION.
14. REMOVE ALL TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.

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	Lft	1,741.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	67.000
2057011	Grading, Driveway Approach	Syd	72.000
2057011	Grading, Sidewalk	Syd	29.000
2057011	Grading, Sidewalk Ramp	Syd	42.000
2057011	Machine Grading, Special	Syd	9,344.000
2057021	Subgrade Undercutting, Type IIA	Cyd	765.000
4020987	Sewer, GI IV, 12 inch, Tr Det B	Ft	60.000
4030010	Dr Structure Cover, Type B	Ea	7.000
4030050	Dr Structure Cover, Type K	Ea	8.000
4030200	Dr Structure, 24 inch dia	Ea	6.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	24.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	9.000
5010003	Cold Milling HMA Surface	Ton	2,112.000
5010005	HMA Surface, Rem	Syd	194.000
5010703	HMA, LVSP	Ton	2,112.000
6027021	Flowable Fill	Cyd	64.481
6030005	Cement	Ton	5.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	72.000
8027001	Curb and Gutter, Conc	Lft	1,700.000
8027001	Driveway Opening, Conc, Det M, Modified	Lft	50.000
8037001	Detectable Warning Surface, Modified	Ft	30.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	374.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	185.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	71.500
8110197	Pavt Mrlg, Thermopl, 6 inch, Crosswalk	Ft	135.000
8110218	Pavt Mrlg, Thermopl, 24 inch, Stop Bar	Ft	32.000
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, Lighted, Furn	Ea	110.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	110.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	167.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	167.500
8127050	No Parking Sign	Ea	66.000
8167011	Slope Restoration	Syd	639.000

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 • 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 • 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 • Dr Structure, Rem
DSDI	• 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

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊕	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
Ⓢ	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
▬	REMOVE AND REPLACE CONC. SIDEWALK
▬	PLACE CONCRETE SIDEWALK
▬	REMOVE & REPLACE CONC. CURB & GUTTER
---	CONSTRUCTION LIMITS
---	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▬	SUBGRADE UNDERCUT

Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sqft)	Total
10.0	D3-1	Street Name Sign	4.000	40.000
3.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	37.500
5.0	W20-1	Road Work Ahead Sign	9.000	45.000
5.0	W20-3	Road Closed Ahead Sign	9.000	45.000
		TOTAL		167.500

NOTES

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

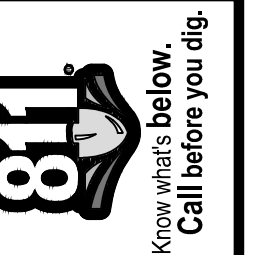
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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



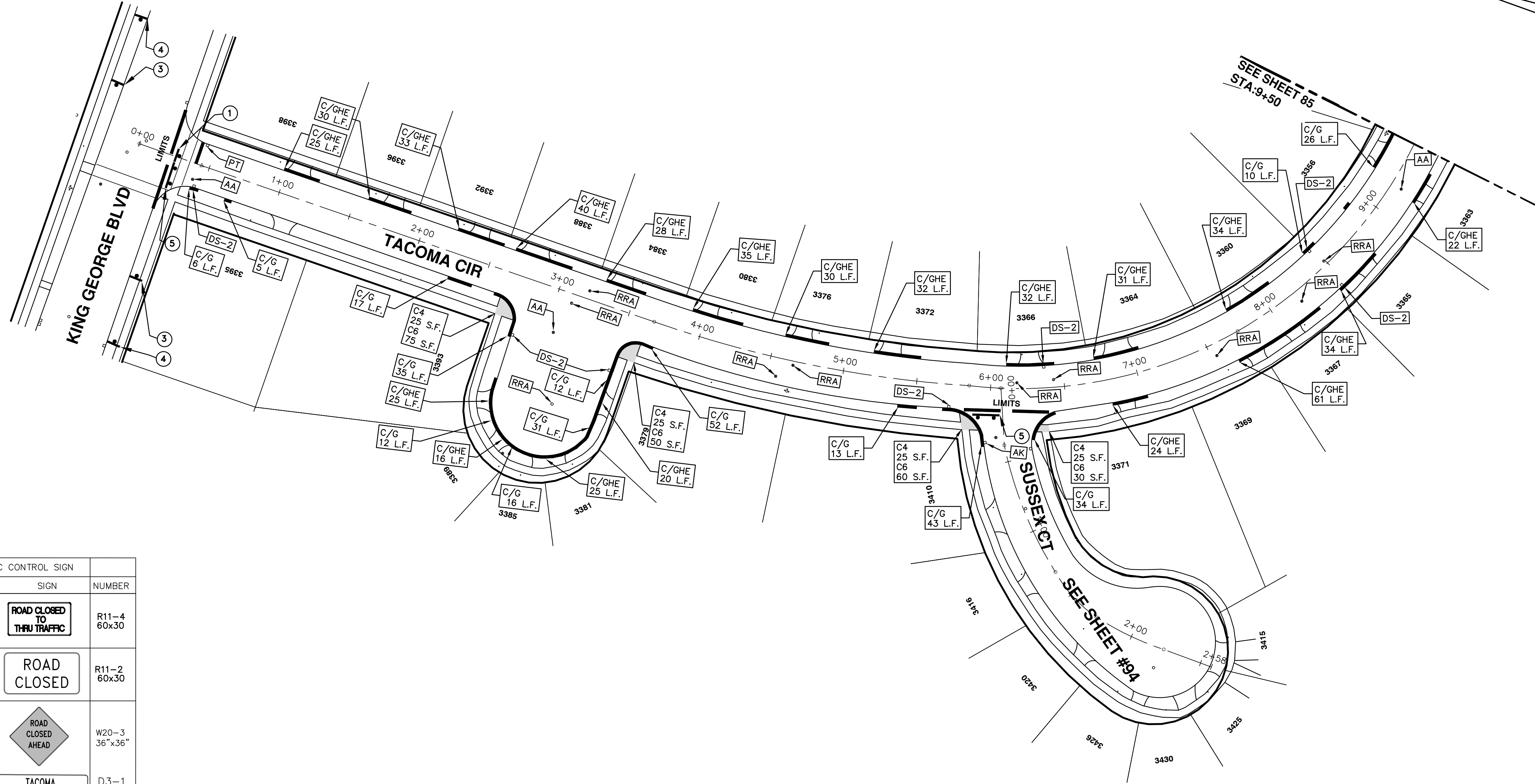
PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

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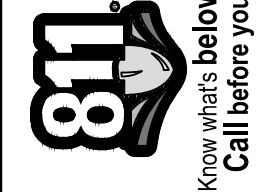


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
TACOMA CIRCLE
DRAWING No. 2016004-93

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TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①		R11-4 60x30
②		R11-2 60x30
③	 TACOMA	W20-3 36"x36" D3-1
④	 TACOMA	W20-1 36"x36" D3-1
⑤	W/ TYPE III BARRICADE	



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	GS AH JK	DAD

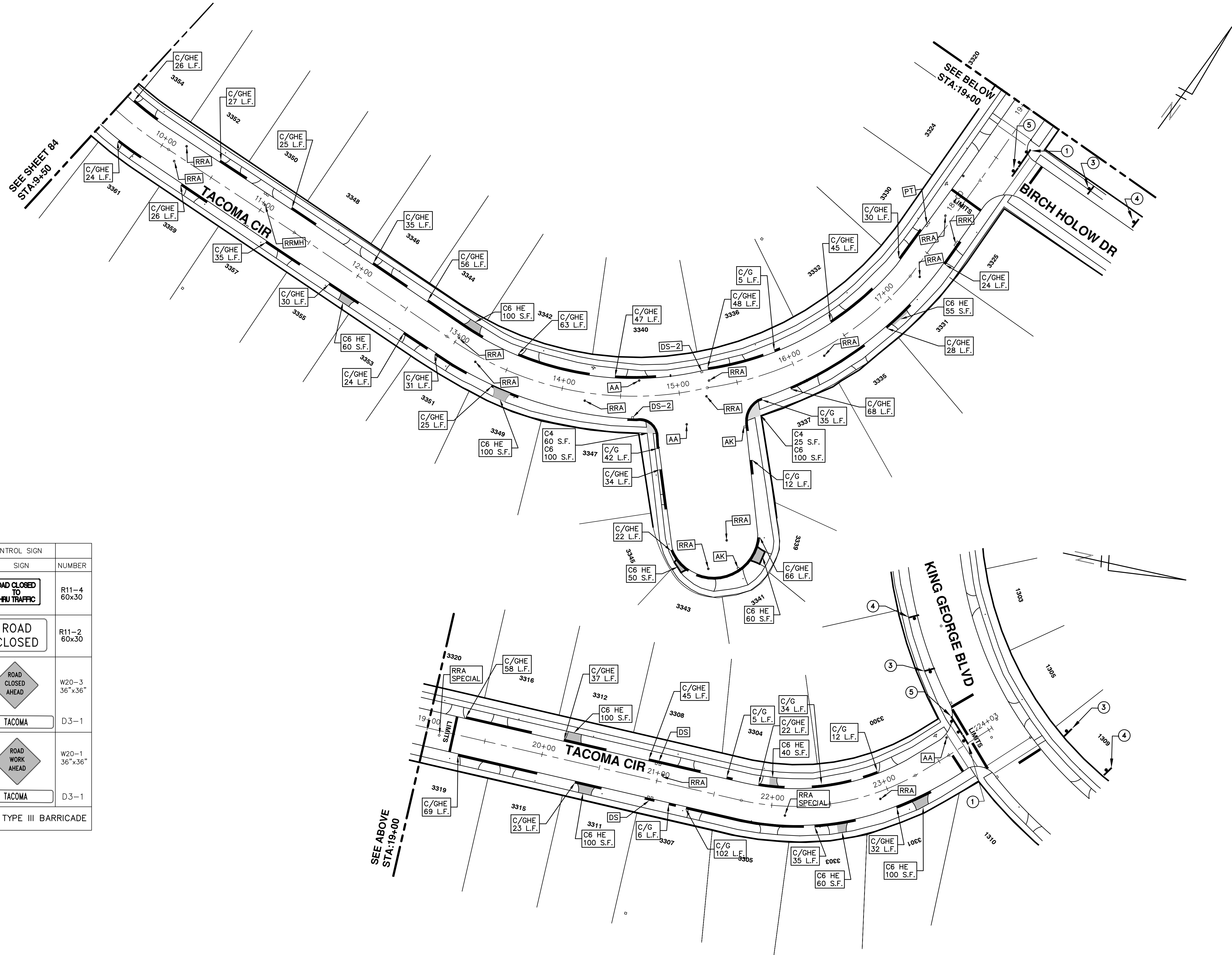
CITY OF ANN ARBOR
PUBLIC SERVICES
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ANN ARBOR MI 48106-0647
www.a2gov.org



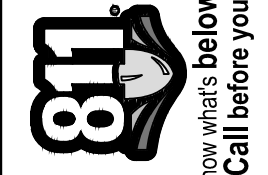
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
TACOMA CIRCLE
RESURFACING

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-84

S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-TACOMA CIR.dwg Dwg Created: 30-Nov-15 - _a2 standard bw.stb - Plot Date: 7-Mar-16



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①		R11-4 60x30
②		R11-2 60x30
③		W20-3 36"x36"
		D3-1
④		W20-1 36"x36"
		D3-1
⑤	W/ TYPE III BARRICADE	



REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	3-7-2016	ADDENDUM #1	DAD	DAD
00	2-22-2016	BID SET	GS AH UK	DAD

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



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
TACOMA CIRCLE
RESURFACING

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-85



CITY OF ANN ARBOR PROJECT MANAGEMENT STREET RESURFACING - 2016 LOCATION: BIRCH HOLLOW DRIVE

ITB No. 4422 FILE No. 2016004

CONSTRUCTION METHOD AND SEQUENCING

1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
2. IMPLEMENT MAINTENANCE OF TRAFFIC, AND SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. REMOVE TO 4.0 INCHES OF EXISTING ROADWAY HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK AS DIRECTED BY THE ENGINEER.
7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
8. GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. PAVE 2.0 INCHES OF LEVELING COURSE HMA MIX (LOCAL STREETS) AS SPECIFIED OR DIRECTED BY THE ENGINEER.
10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
11. PAVE 2.0 INCHES OF TOP COURSE HMA MIX (LOCAL STREETS) AS SPECIFIED OR DIRECTED BY THE ENGINEER.
12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN UP AND FINAL RESTORATION.
14. REMOVE ALL TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.

Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	5.000
2030015	Sewer, Rem, Less than 24 inch	Ft	50.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Lft	855.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	199.000
2057011	Grading, Driveway Approach	Syd	20.000
2057011	Grading, Sidewalk	Syd	52.000
2057011	Grading, Sidewalk Ramp	Syd	114.000
2057011	Machine Grading, Special	Syd	5,568.000
2057021	Subgrade Undercutting, Type IIA	Cyd	548.000
2087050	Erosion Control, Inlet Filter	Ea	11.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	50.000
4030025	Dr Structure Cover, Type D	Ea	1.000
4030050	Dr Structure Cover, Type K	Ea	9.000
4030200	Dr Structure, 24 inch dia	Ea	5.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	13.000
4037050	Dr Structure, Point	Ea	1.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,259.000
5010005	HMA Surface, Rem	Syd	97.000
5010061	HMA, Approach	Ton	22.000
5010703	HMA, LVSP	Ton	1,237.000
6027021	Flowable Fill	Cyd	31.667
6030005	Cement	Ton	2.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	20.000
8027001	Curb and Gutter, Conc	Lft	671.000
8027001	Driveway Opening, Conc, Det M, Modified	Lft	199.000
8037001	Detectable Warning Surface, Modified	Ft	30.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1,026.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	445.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	19.900
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	170.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	20.000
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, Lighted, Furn	Ea	40.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	40.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	64.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	64.500
8127050	No Parking Sign	Ea	56.000
8167011	Slope Restoration	Syd	314.000
8230431	Gate Box, Adj, Case 1	Ea	3.000

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 • 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 • 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
CHE	• 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 • Dr Structure, Rem
DSDI	• 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 I	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE II	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊕	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊕	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊕	MONUMENT BOX
▬	REMOVE AND REPLACE CONC. SIDEWALK
▬	PLACE CONCRETE SIDEWALK
▬	REMOVE & REPLACE CONC. CURB & GUTTER
---	CONSTRUCTION LIMITS
---	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▬	SUBGRADE UNDERCUT

Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total
4.0	D3-1	Street Name Sign	4.000	16.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
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		64.500

NOTES

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

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

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

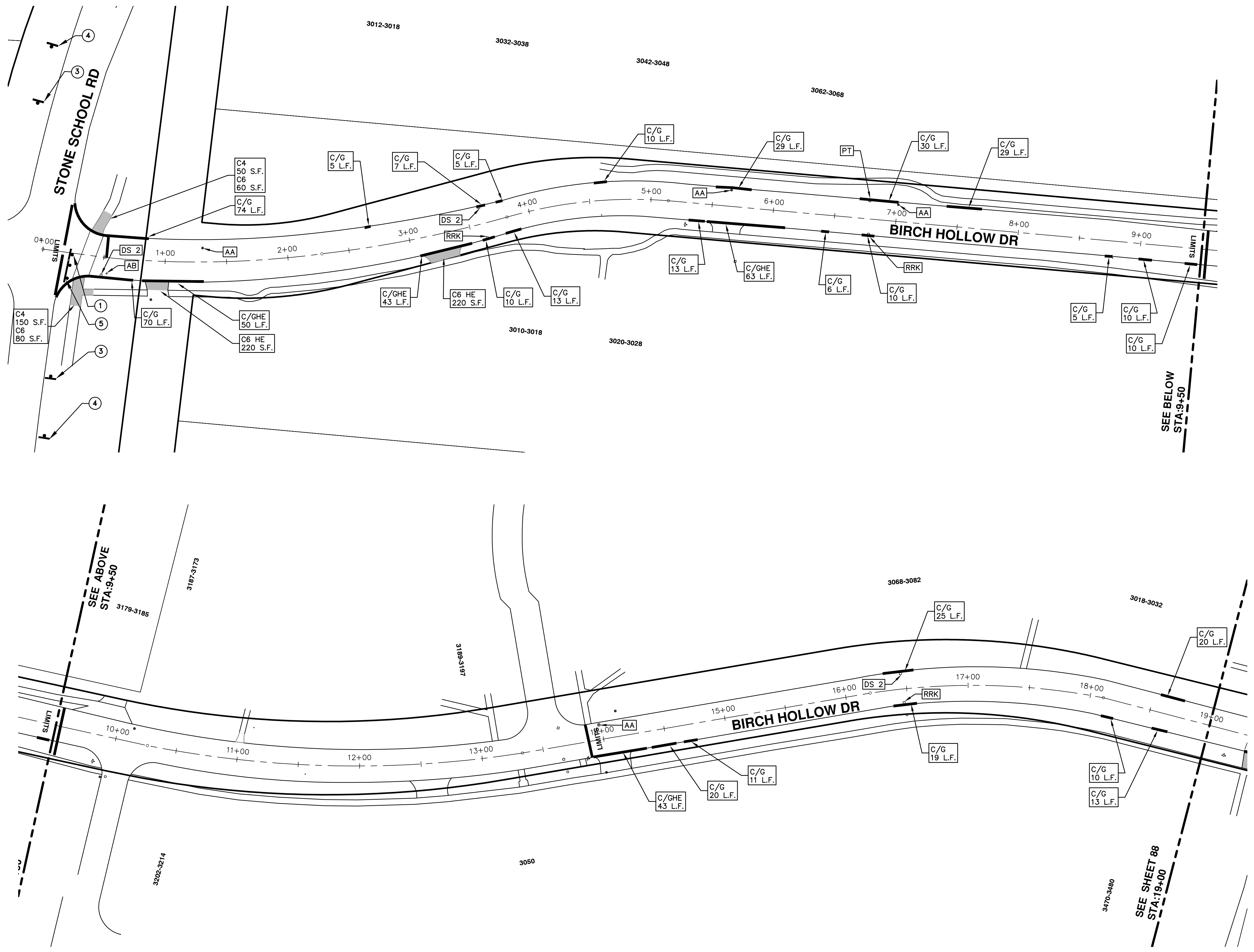


PROJECT MANAGEMENT SERVICES UNIT

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



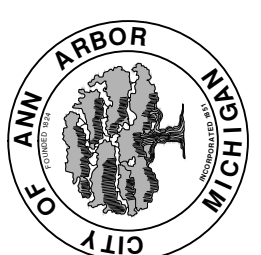
S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-Birch Hollow.dwg Dwg Created: 30-Nov-15 - _a2 standard bw.stb - Plot Date: 7-Mar-16



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	ROAD CLOSED TO THRU TRAFFIC	R11-4 60x30
②	ROAD CLOSED	R11-2 60x30
③	ROAD CLOSED AHEAD BIRCHHOLLOW	W20-3 36"x36" D3-1
④	ROAD WORK AHEAD BIRCHHOLLOW	W20-1 36"x36" D3-1
⑤	W/ TYPE III BARRICADE	

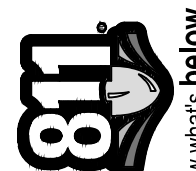
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 BIRCH HOLLOW DRIVE
 RESURFACING

SCALE PLAN: 1" = 40'
 DRAWING No. 2016004-87
 SHEET No. 87 OF 97



CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-2667
 WWW.A2GOV.ORG

REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	3-7-2016	ADDENDUM #1	DAD	DAD
00	2-22-2016	BID SET	GS AH JK	DAD



Know what's below.
Call before you dig.



CITY OF ANN ARBOR PROJECT MANAGEMENT STREET RESURFACING - 2016 LOCATION: NORTH BAYLIS DRIVE

ITB No. 4422 FILE No. 2016004

CONSTRUCTION METHOD AND SEQUENCING

1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
2. IMPLEMENT MAINTENANCE OF TRAFFIC, AND SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. REMOVE TO 4.0 INCHES OF EXISTING ROADWAY HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK AS DIRECTED BY THE ENGINEER.
7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
8. GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. PAVE 2.0 INCHES OF LEVELING COURSE HMA MIX (LOCAL STREETS) AS SPECIFIED OR DIRECTED BY THE ENGINEER.
10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
11. PAVE 2.0 INCHES OF TOP COURSE HMA MIX (LOCAL STREETS) AS SPECIFIED OR DIRECTED BY THE ENGINEER.
12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN UP AND FINAL RESTORATION.
14. REMOVE ALL TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.

Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	5.000
2030015	Sewer, Rem, Less than 24 inch	Ft	50.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Lft	966.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	173.000
2057011	Grading, Driveway Approach	Syd	156.000
2057011	Grading, Sidewalk	Syd	18.000
2057011	Machine Grading, Special	Syd	3,945.000
2057021	Subgrade Undercutting, Type IA	Cyd	351.000
2087050	Erosion Control, Inlet Filter	Ea	13.000
4020987	Sewer, CI V, 12 inch, Tr Det B	Ft	50.000
4030010	Dr Structure Cover, Type B	Ea	8.000
4030025	Dr Structure Cover, Type D	Ea	1.000
4030050	Dr Structure Cover, Type K	Ea	5.000
4030200	Dr Structure, 24 inch dia	Ea	5.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	17.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	12.000
5010003	Cold Milling HMA Surface	Ton	892.000
5010005	HMA Surface, Rem	Syd	110.000
5010703	HMA, LVSP	Ton	892.000
6027021	Flowable Fill	Cyd	35.778
6030005	Cement	Ton	10.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	156.000
8027001	Curb and Gutter, Conc	Lft	450.000
8027001	Driveway Opening, Conc, Det M, Modified	Lft	540.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	155.500
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	290.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	32.000
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, Lighted, Furn	Ea	50.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	50.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	154.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	154.000
8127050	No Parking Sign	Ea	30.000
8167011	Slope Restoration	Syd	355.000
8230431	Gate Box, Adj, Case 1	Ea	1.000

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 • 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 • Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp
CHE	• 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 • Dr Structure, Rem
DSDI	• 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 I	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE II	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊕	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
Ⓢ	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
▬	REMOVE AND REPLACE CONC. SIDEWALK
▬	PLACE CONCRETE SIDEWALK
▬	REMOVE & REPLACE CONC. CURB & GUTTER
---	CONSTRUCTION LIMITS
---	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▬	SUBGRADE UNDERCUT

Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total
8.0	D3-1	Street Name Sign	4.000	32.000
4.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	50.000
4.0	W20-1	Road Work Ahead Sign	9.000	36.000
4.0	W20-3	Road Closed Ahead Sign	9.000	36.000
		TOTAL		154.000

NOTES

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

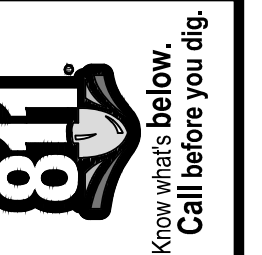
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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



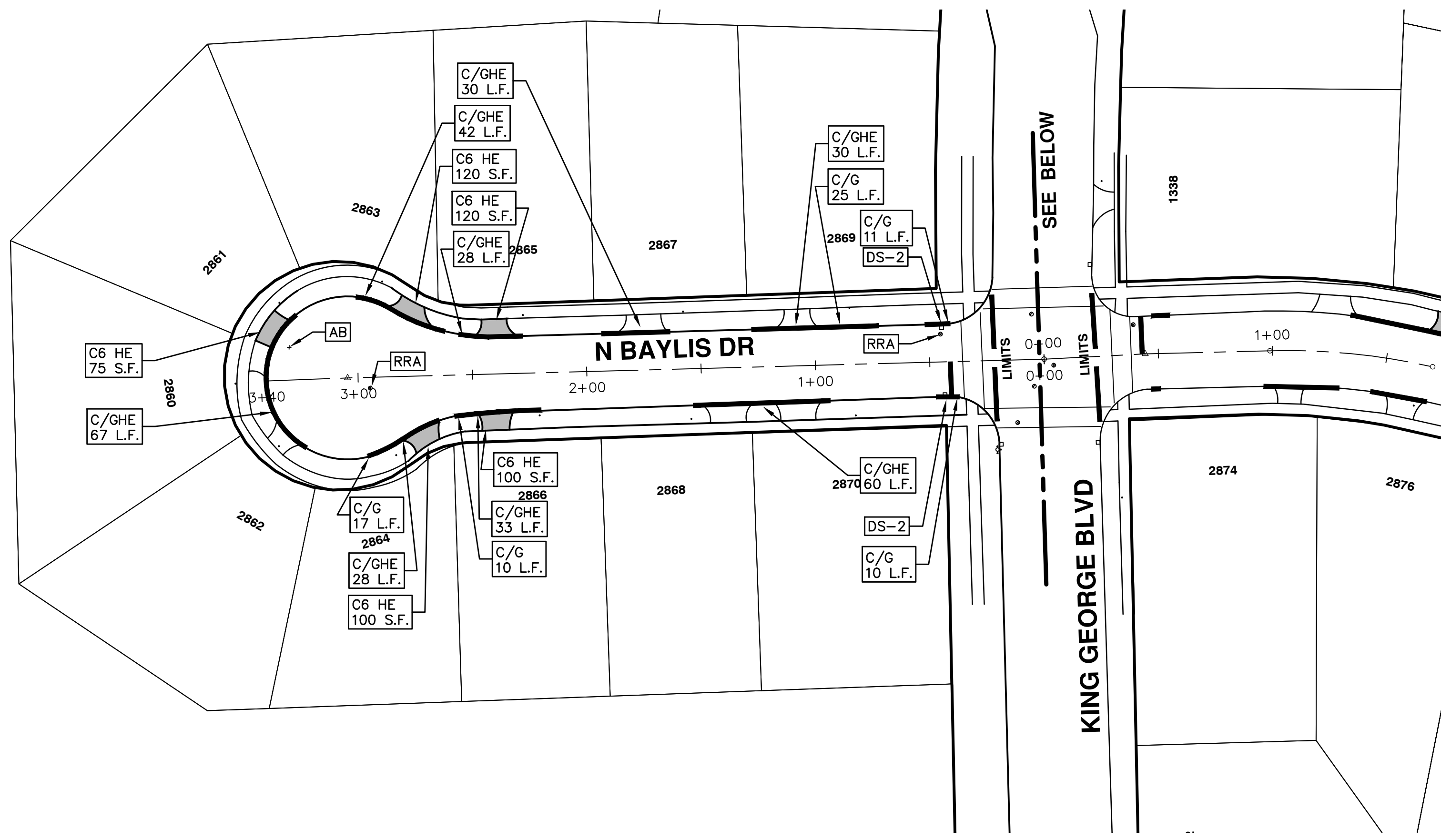
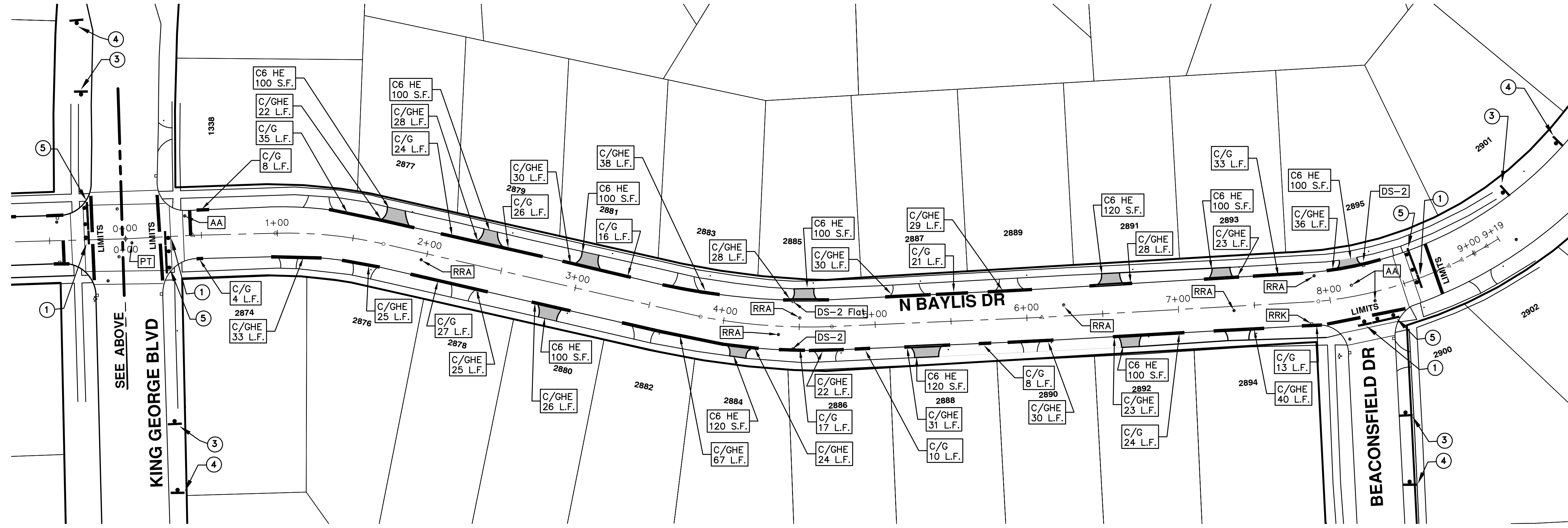
PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
NORTH BAYLIS DRIVE
DRAWING No. 2016004-89

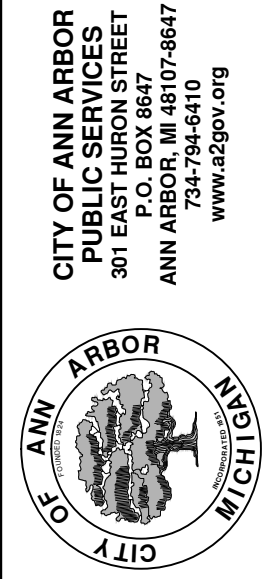
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TRAFFIC CONTROL SIGN	
SIGN	NUMBER
① ROAD CLOSED TO THRU TRAFFIC	R11-4 60x30
③ ROAD CLOSED AHEAD	W20-3 36"x36"
N.BAYLIS	D3-1
④ ROAD WORK AHEAD	W20-1 36"x36"
N.BAYLIS	D3-1
⑤	W/ TYPE III BARRICADE

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 STREET RESURFACING - 2016
 NORTH BAYLIS DRIVE
 RESURFACING

SCALE PLAN: 1" = 40'
 DRAWING No. 2016004-90



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

REV.	DATE	DESCRIPTION	DRAWN	CHECKED
00	2-22-2016	BID SET	SS AH JK	DAD
01	3-7-2016	ADDENDUM #1	DAD	DAD





CITY OF ANN ARBOR PROJECT MANAGEMENT STREET RESURFACING - 2016

LOCATION: PEBBLE CREEK ROAD & CATALPA CIRCLE

ITB No. 4422 FILE No. 2016004

CONSTRUCTION METHOD AND SEQUENCING

1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
2. IMPLEMENT MAINTENANCE OF TRAFFIC, AND SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. REMOVE TO 4.0 INCHES OF EXISTING ROADWAY HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK AS DIRECTED BY THE ENGINEER.
7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
8. GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. PAVE 2.0 INCHES OF LEVELING COURSE HMA MIX (LOCAL STREETS) AS SPECIFIED OR DIRECTED BY THE ENGINEER.
10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
11. PAVE 2.0 INCHES OF TOP COURSE HMA MIX (LOCAL STREETS) AS SPECIFIED OR DIRECTED BY THE ENGINEER.
12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN UP AND FINAL RESTORATION.
14. REMOVE ALL TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.

Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	4.000
2030015	Sewer, Rem, Less than 24 inch	Ft	40.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Lft	1,907.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	190.000
2057011	Grading, Driveway Approach	Syd	135.000
2057011	Grading, Sidewalk	Syd	33.000
2057011	Grading, Sidewalk Ramp	Syd	20.000
2057011	Machine Grading, Special	Syd	5,394.000
2057021	Subgrade Undercutting, Type IA	Cyd	540.000
2087050	Erosion Control, Inlet Filter	Ea	17.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	40.000
4030010	Dr Structure Cover, Type B	Ea	21.000
4030025	Dr Structure Cover, Type D	Ea	1.000
4030050	Dr Structure Cover, Type K	Ea	6.000
4030200	Dr Structure, 24 inch dia	Ea	4.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	24.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	22.000
5010003	Cold Milling HMA Surface	Ton	1,219.000
5010005	HMA Surface, Rem	Syd	214.000
5010703	HMA, LVSP	Ton	1,219.000
6027021	Flowable Fill	Cyd	70.630
6030005	Cement	Ton	9.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	135.000
8027001	Curb and Gutter, Conc	Lft	1,347.000
8027001	Driveway Opening, Conc, Det M, Modified	Lft	583.000
8037001	Detectable Warning Surface, Modified	Ft	40.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	180.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	160.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	135.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	302.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	32.000
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, Lighted, Furn	Ea	68.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	68.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	149.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	149.500
8127050	No Parking Sign	Ea	46.000
8167011	Slope Restoration	Syd	700.000

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
C4HE	• Sidewalk, Conc, 4 inch, Modified • Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • 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 • Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp
C HE	• 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 • Dr Structure, Rem
DSDI	• 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

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊚	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
Ⓢ	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
■	REMOVE AND REPLACE CONC. SIDEWALK
▨	PLACE CONCRETE SIDEWALK
—	REMOVE & REPLACE CONC. CURB & GUTTER
- - -	CONSTRUCTION LIMITS
- · -	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▬	SUBGRADE UNDERCUT

Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total
10.0	D3-1	Street Name Sign	4.000	40.000
3.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	37.500
4.0	W20-1	Road Work Ahead Sign	9.000	36.000
4.0	W20-3	Road Closed Ahead Sign	9.000	36.000
		TOTAL		149.500

NOTES

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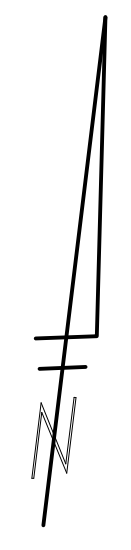
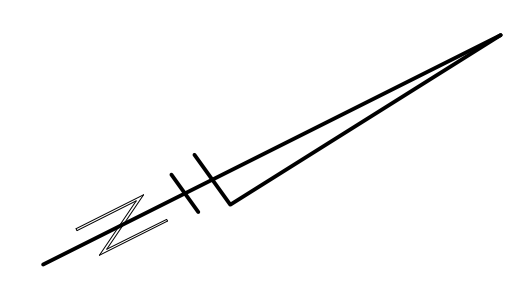
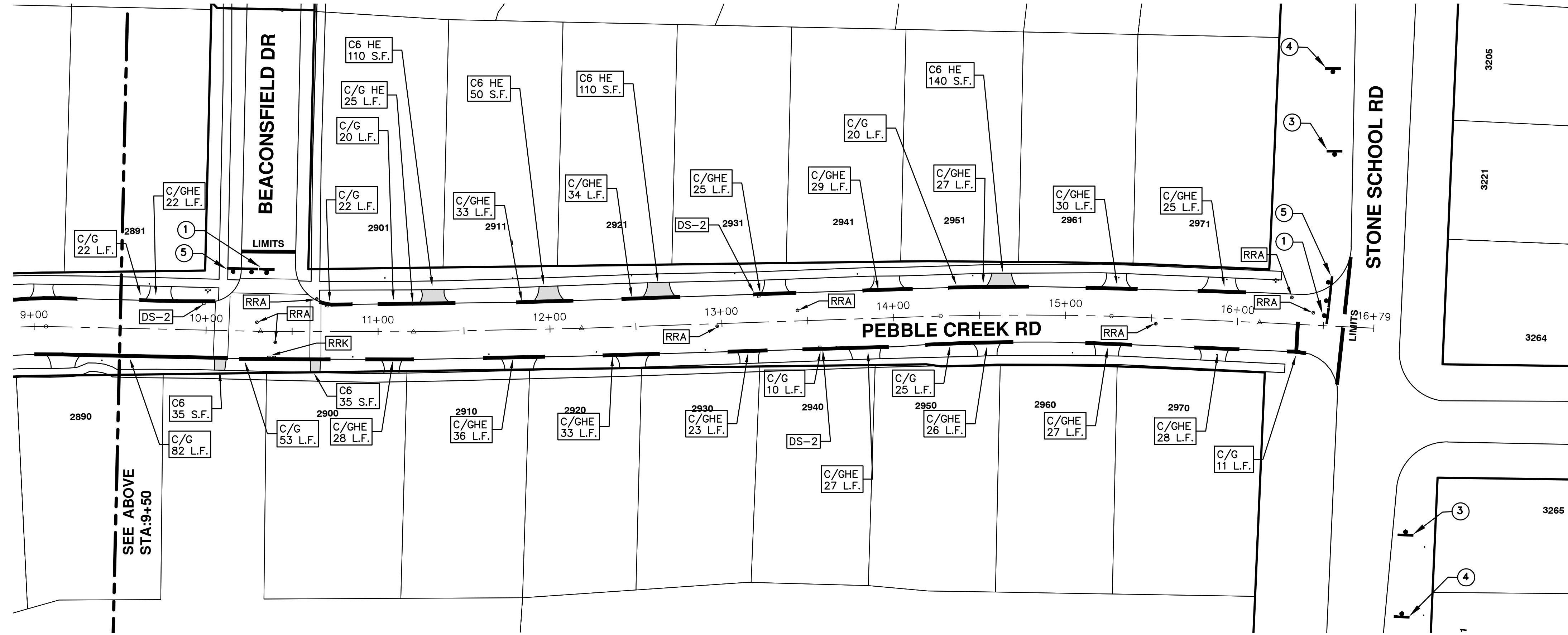
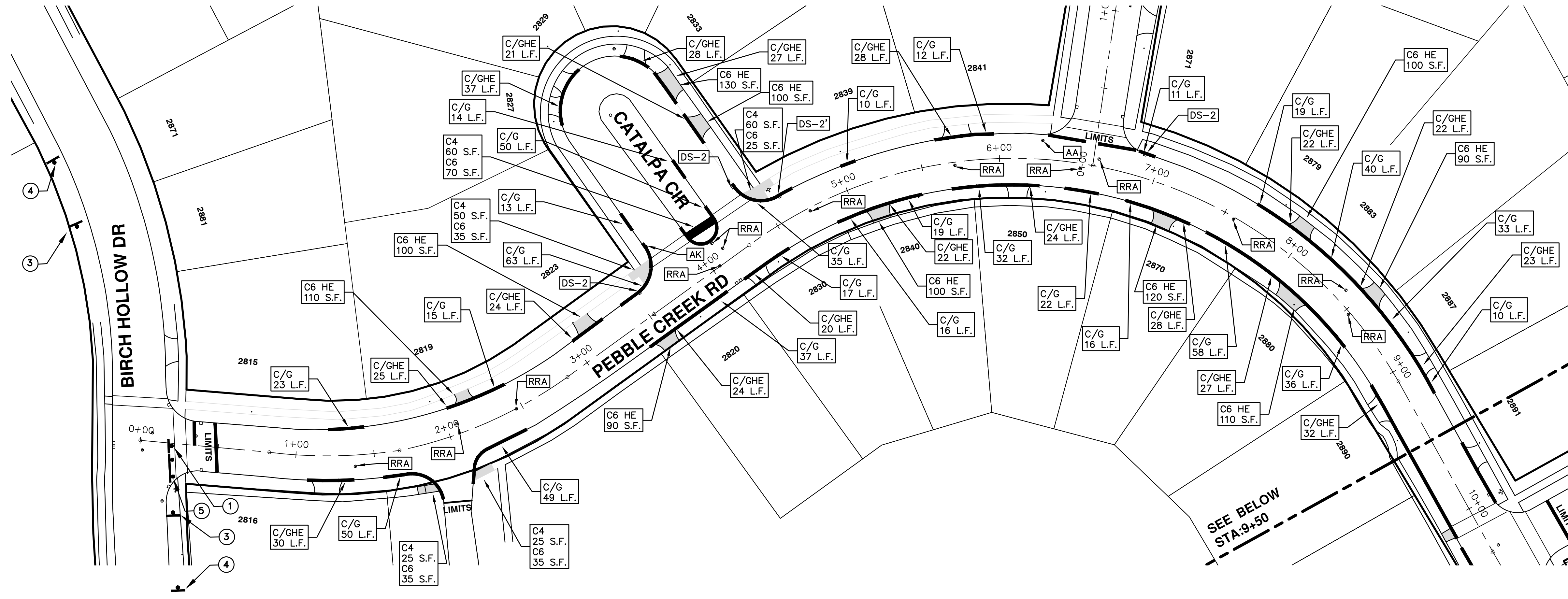
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PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

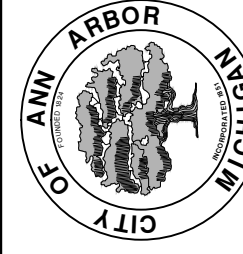


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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	3-7-2016	ADDENDUM #1	DAD	DAD
00	2-22-2016	BID SET	GS AH UK	DAD

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
PO BOX 86400
ANN ARBOR MI 48108-8647
www.a2gov.org



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
PEBBLE CREEK ROAD & CATALPA CIRCLE
RESURFACING

SCALE PLAN: 1" = 40'
DRAWING No. 2016004-92



CITY OF ANN ARBOR PROJECT MANAGEMENT STREET RESURFACING - 2016

LOCATION: BRENTWOOD & QUAIL HOLLOW & SUSSEX & WEXFORD COURTS

ITB No. 4422 FILE No. 2016004

SUSSEX COURT

Item Code	Item Description	Units	Quantity
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Lft	210.000
2057011	Machine Grading, Special	Syd	1,122.000
2057021	Subgrade Undercutting, Type IIA	Cyd	59.000
2087050	Erosion Control, Inlet Filter	Ea	4.000
4030010	Dr Structure Cover, Type B	Ea	4.000
4030050	Dr Structure Cover, Type K	Ea	2.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	6.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	4.000
5010003	Cold Milling HMA Surface	Ton	254.000
5010005	HMA Surface, Rem	Syd	24.000
5010703	HMA, LVSP	Ton	254.000
6027021	Flowable Fill	Cyd	7.778
6030005	Cement	Ton	1.000
8027001	Curb and Gutter, Conc	Lft	80.000
8027001	Driveway Opening, Conc, Det M, Modified	Lft	134.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	80.000
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, Lighted, Furn	Ea	10.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	10.000
8127050	No Parking Sign	Ea	5.000
8167011	Slope Restoration	Syd	77.000

WEXFORD COURT

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	Lft	654.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	35.000
2057011	Grading, Driveway Approach	Syd	31.000
2057011	Grading, Sidewalk	Syd	4.000
2057011	Machine Grading, Special	Syd	2,181.000
2057021	Subgrade Undercutting, Type IIA	Cyd	148.000
2087050	Erosion Control, Inlet Filter	Ea	8.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	20.000
4030010	Dr Structure Cover, Type B	Ea	2.000
4030050	Dr Structure Cover, Type K	Ea	4.000
4037001	Dr Structure Cover, Type B, Special	Ea	1.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	4.000
4037050	Dr Structure, Double Inlet	Ea	2.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	5.000
5010003	Cold Milling HMA Surface	Ton	493.000
5010005	HMA Surface, Rem	Syd	75.000
5010703	HMA, LVSP	Ton	493.000
6027021	Flowable Fill	Cyd	24.222
6030005	Cement	Ton	3.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	31.000
8027001	Curb and Gutter, Conc	Lft	375.000
8027001	Driveway Opening, Conc, Det M, Modified	Lft	293.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	31.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	73.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	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, Lighted, Furn	Ea	20.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	20.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	52.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	52.000
8127050	No Parking Sign	Ea	13.000
8167011	Slope Restoration	Syd	240.000
8230431	Gate Box, Adj, Case 1	Ea	1.000

BRENTWOOD COURT

Item Code	Item Description	Units	Quantity
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Lft	684.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	79.000
2057011	Grading, Driveway Approach	Syd	71.000
2057011	Grading, Sidewalk	Syd	8.000
2057011	Machine Grading, Special	Syd	2,444.000
2057021	Subgrade Undercutting, Type IIA	Cyd	176.000
2087050	Erosion Control, Inlet Filter	Ea	7.000
4030010	Dr Structure Cover, Type B	Ea	4.000
4030050	Dr Structure Cover, Type K	Ea	4.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	10.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	5.000
5010003	Cold Milling HMA Surface	Ton	553.000
5010005	HMA Surface, Rem	Syd	77.000
5010703	HMA, LVSP	Ton	553.000
6027021	Flowable Fill	Cyd	25.333
6030005	Cement	Ton	5.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	71.000
8027001	Curb and Gutter, Conc	Lft	418.000
8027001	Driveway Opening, Conc, Det M, Modified	Lft	272.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	70.500
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	73.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	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, Lighted, Furn	Ea	22.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	22.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	52.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	52.000
8127050	No Parking Sign	Ea	15.000
8167011	Slope Restoration	Syd	251.000

QUAIL HOLLOW COURT

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	Lft	225.000
2057011	Machine Grading, Special	Syd	1,544.000
2057021	Subgrade Undercutting, Type IIA	Cyd	73.000
2087050	Erosion Control, Inlet Filter	Ea	3.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	20.000
4030010	Dr Structure Cover, Type B	Ea	1.000
4030050	Dr Structure Cover, Type K	Ea	2.000
4030200	Dr Structure, 24 inch dia	Ea	2.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	4.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	2.000
5010003	Cold Milling HMA Surface	Ton	349.000
5010005	HMA Surface, Rem	Syd	27.000
5010703	HMA, LVSP	Ton	349.000
6027021	Flowable Fill	Cyd	8.333
6030005	Cement	Ton	1.000
8027001	Curb and Gutter, Conc	Lft	134.000
8027001	Driveway Opening, Conc, Det M, Modified	Lft	106.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	10.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	10.000
8127050	No Parking Sign	Ea	6.000
8167011	Slope Restoration	Syd	83.000

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 • _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp
CHE	• 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 • _Dr Structure, Rem
DSDI	• Sewer, Rem, Less than 24 inch • _Dr Structure, Double Inlet • _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 METHOD AND SEQUENCING

- THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
- IMPLEMENT MAINTENANCE OF TRAFFIC, AND SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- REMOVE TO 4.0 INCHES OF EXISTING ROADWAY HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK AS DIRECTED BY THE ENGINEER.
- PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
- PAVE 2.0 INCHES OF LEVELING COURSE HMA MIX (LOCAL STREETS) AS SPECIFIED OR DIRECTED BY THE ENGINEER.
- ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- PAVE 2.0 INCHES OF TOP COURSE HMA MIX (LOCAL STREETS) AS SPECIFIED OR DIRECTED BY THE ENGINEER.
- COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN UP AND FINAL RESTORATION.
- REMOVE ALL 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 THIS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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



PROJECT MANAGEMENT SERVICES UNIT

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

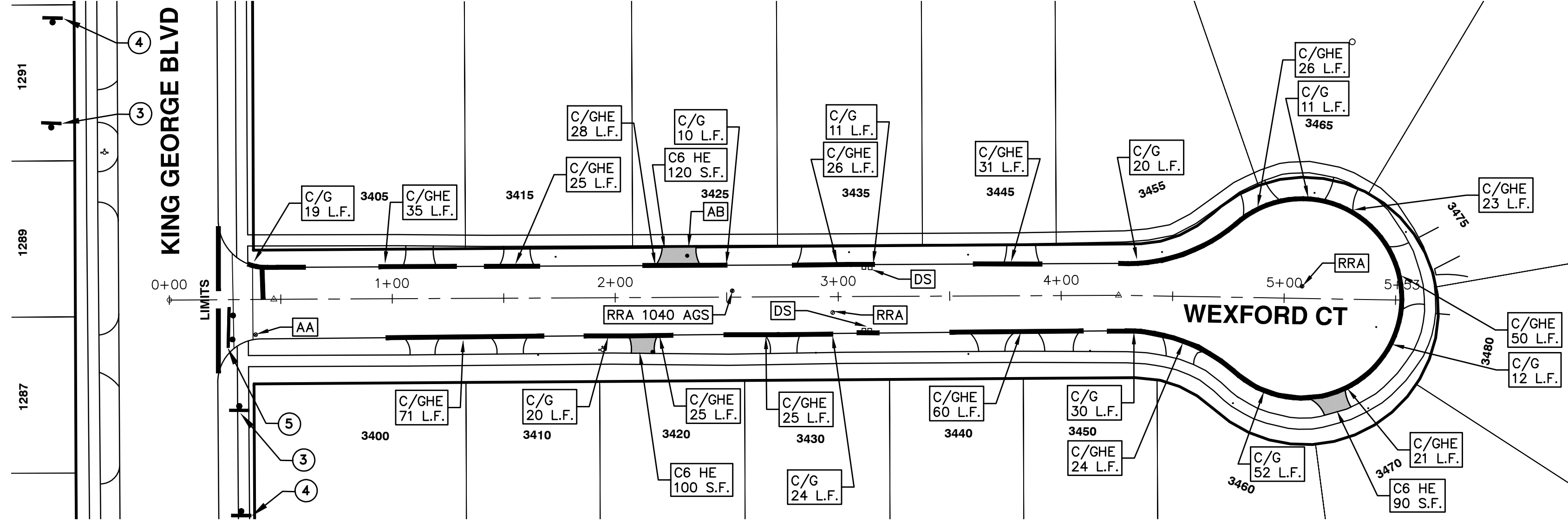
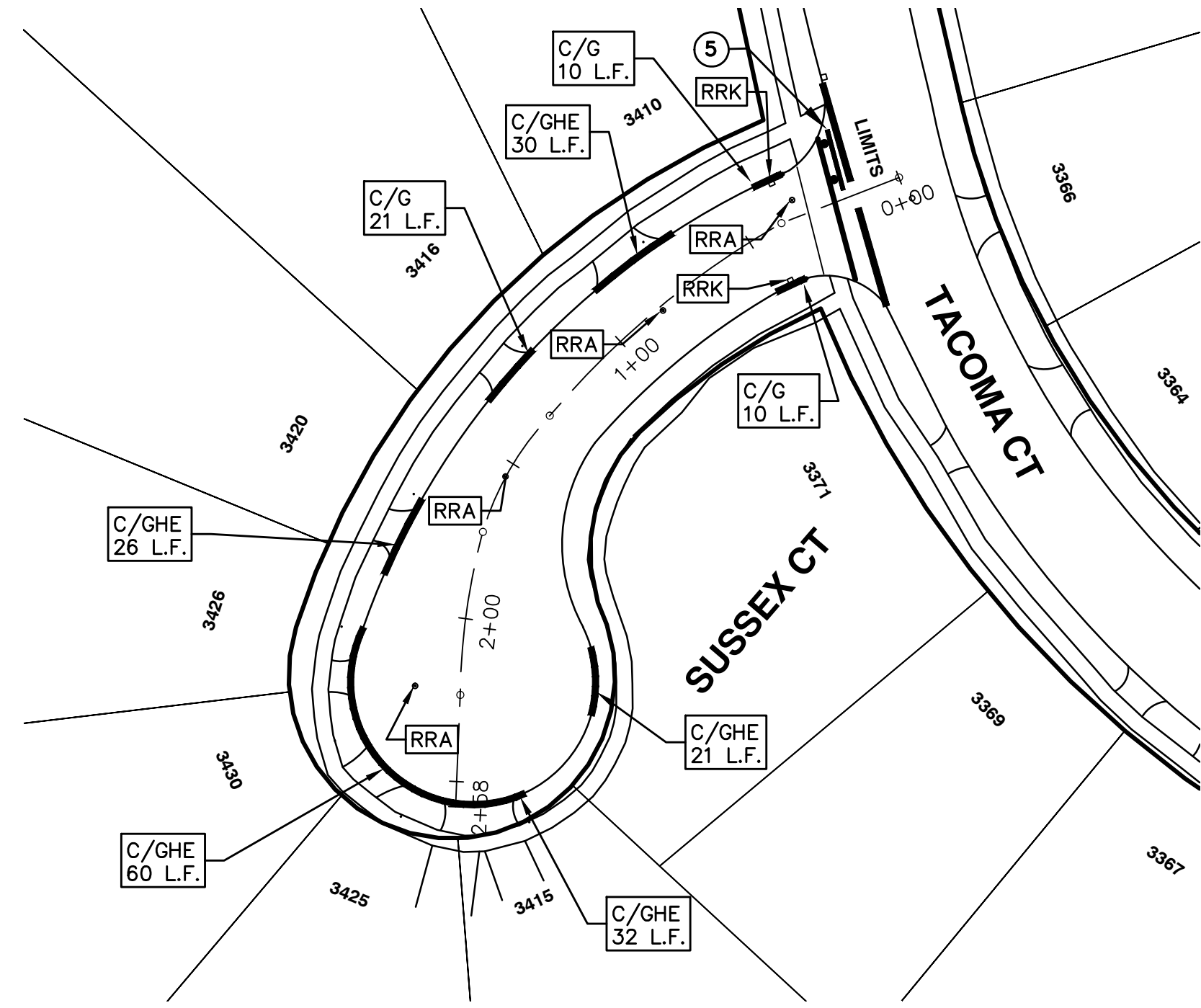
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

STREET RESURFACING - 2016
BRENTWOOD & QUAIL HOLLOW & SUSSEX &
WEXFORD COURTS

DRAWING No.
2016004-93

SHEET No.
93 OF 97

S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-Misc Courts.dwg Dwg Created: 30-Nov-15 - a2_standard bw.stb - Plot Date: 7-Mar-16

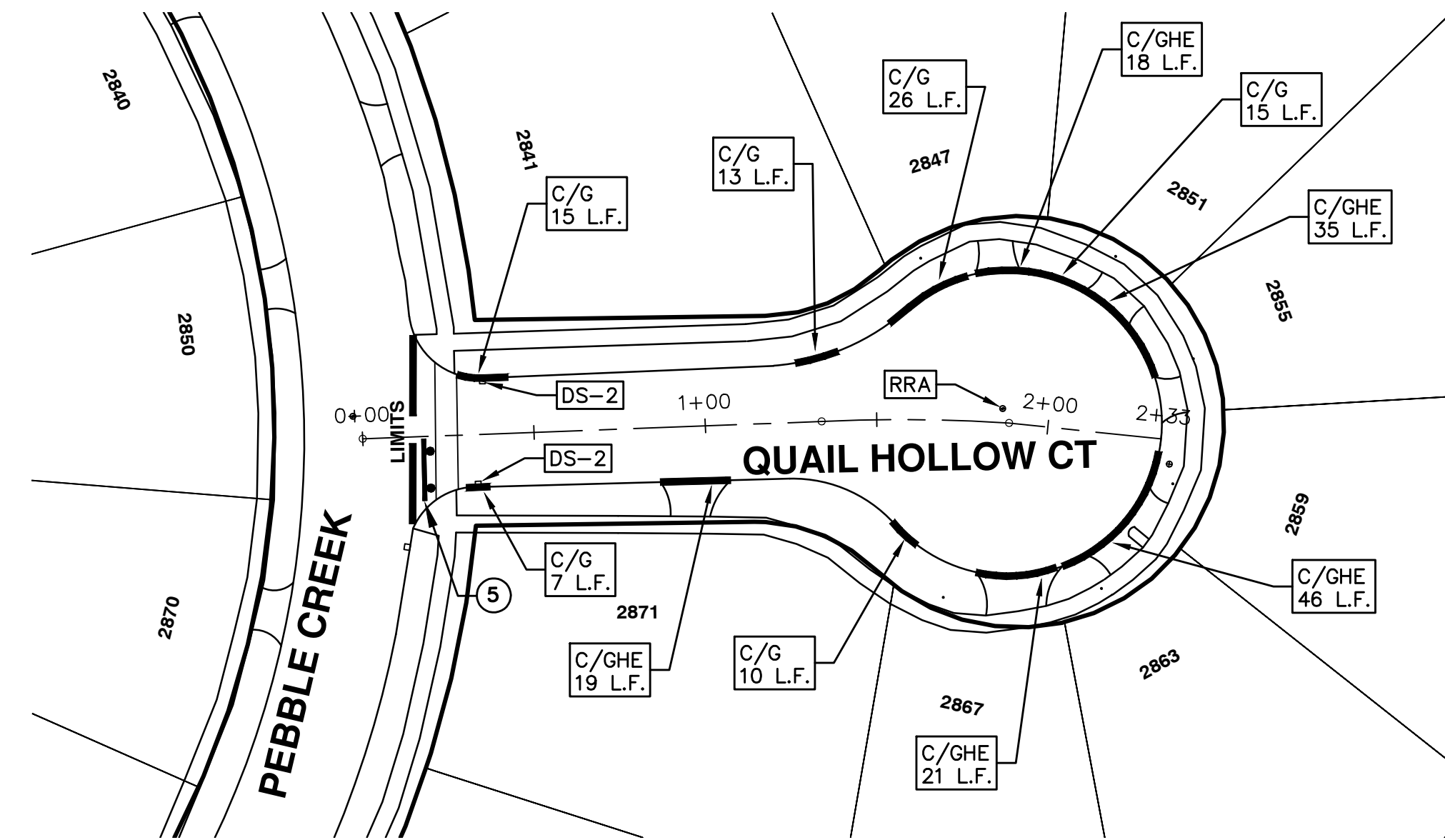
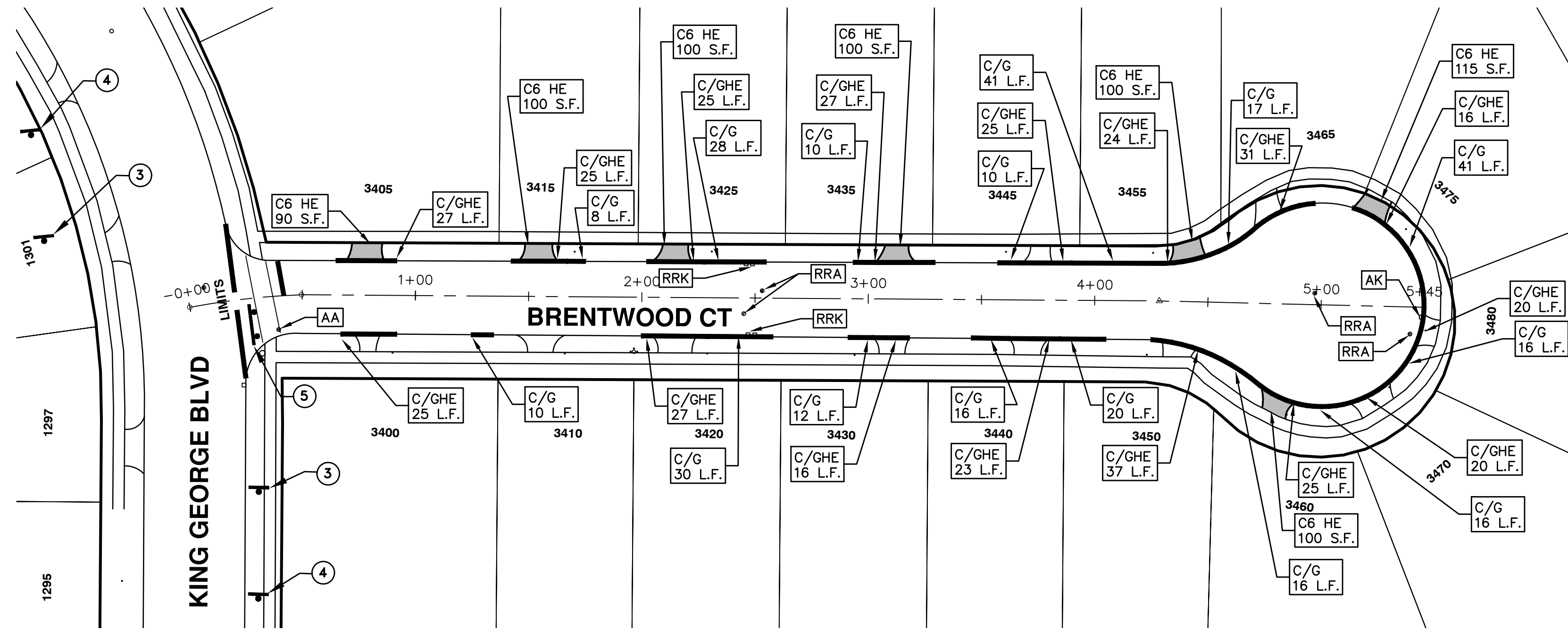


BRENTWOOD & WEXFORD COURTS

Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total
4.0	D3-1	Street Name Sign	4,000	16,000
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				52,000

TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	ROAD CLOSED TO THRU TRAFFIC	R11-4 60"x30"
③	ROAD CLOSED AHEAD	W20-3 36"x36"
	STREET	D3-1
④	ROAD WORK AHEAD	W20-1 36"x36"
	STREET	D3-1
⑤	W/ TYPE III BARRICADE	

LEGEND	
SYMBOL	DESCRIPTION
⊕	EXISTING SANITARY SEWER MANHOLE
⊕	EXISTING STORM SEWER MANHOLE
⊕	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊕	MICHCON GAS CO. VALVE BOX/WELL
⊕	AMERITECH TELEPHONE VAULT
⊕	ELECTRIC MANHOLE
⊕	SOIL BORING
⊕	EXISTING STORM SEWER INLET
⊕	MONUMENT BOX
▬	REMOVE AND REPLACE CONC. SIDEWALK
▬	PLACE CONCRETE SIDEWALK
▬	REMOVE & REPLACE CONC. CURB & GUTTER
▬	CONSTRUCTION LIMITS
▬	6" WRAPPED UNDERDRAIN
▬	REMOVE CONCRETE SIDEWALK
▬	SUBGRADE UNDERCUT



Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	3-7-2016	DAD	DAD
00	BID SET	2-22-2016	GS AH UK	DAD

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

STREET RESURFACING - 2016

BRENTWOOD & QUAIL HOLLOW & SUSSEX & WEXFORD COURTS
RESURFACING

SHEET No. **94 OF 97**

SCALE 1" = 40'

DRAWING No. **2016004-94**



CITY OF ANN ARBOR PROJECT MANAGEMENT STREET RESURFACING - 2016

LOCATION: BEACONSFIELD DRIVE & PAGE AVENUE &

TICKNOR COURT

ITB No. 4422 FILE No. 2016004

BEACONSFIELD DRIVE

Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	1.000
2030015	Sewer, Rem, Less than 24 inch	Ft	10.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Lft	130.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	12.000
2057011	Grading, Driveway Approach	Syd	10.000
2057011	Grading, Sidewalk	Syd	2.000
2057011	Machine Grading, Special	Syd	1,051.000
2057021	Subgrade Undercutting, Type IA	Cyd	106.000
2087050	Erosion Control, Inlet Filter	Ea	4.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	10.000
4030010	Dr Structure Cover, Type B	Ea	1.000
4030050	Dr Structure Cover, Type K	Ea	1.000
4030200	Dr Structure, 24 inch dia	Ea	1.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	3.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	2.000
5010003	Cold Milling HMA Surface	Ton	238.000
5010005	HMA Surface, Rem	Syd	15.000
5010703	HMA, LVSP	Ton	238.000
6027021	Flowable Fill	Cyd	4.815
6030005	Cement	Ton	1.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	10.000
8027001	Curb and Gutter, Conc	Lft	113.000
8027001	Driveway Opening, Conc, Det M, Modified	Lft	19.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	10.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	150.000
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, Lighted, Furn	Ea	13.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	13.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	129.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	129.000
8127050	No Parking Sign	Ea	9.000
8167011	Slope Restoration	Syd	48.000

PAGE AVENUE

Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	1.000
2030015	Sewer, Rem, Less than 24 inch	Ft	10.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Lft	430.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	29.000
2057011	Grading, Driveway Approach	Syd	26.000
2057011	Grading, Sidewalk	Syd	3.000
2057011	Machine Grading, Special	Syd	1,808.000
2057021	Subgrade Undercutting, Type IA	Cyd	149.000
2087050	Erosion Control, Inlet Filter	Ea	5.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	10.000
4030010	Dr Structure Cover, Type B	Ea	5.000
4030025	Dr Structure Cover, Type D	Ea	1.000
4030050	Dr Structure Cover, Type K	Ea	2.000
4030200	Dr Structure, 24 inch dia	Ea	1.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	9.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	6.000
5010003	Cold Milling HMA Surface	Ton	409.000
5010005	HMA Surface, Rem	Syd	46.000
5010703	HMA, LVSP	Ton	409.000
6027021	Flowable Fill	Cyd	15.928
6030005	Cement	Ton	2.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	26.000
8027001	Curb and Gutter, Conc	Lft	197.000
8027001	Driveway Opening, Conc, Det M, Modified	Lft	224.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	26.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	72.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	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, Lighted, Furn	Ea	20.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	20.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	52.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	52.000
8127050	No Parking Sign	Ea	13.000
8167011	Slope Restoration	Syd	158.000

TICKNOR COURT

Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	4.000
2030015	Sewer, Rem, Less than 24 inch	Ft	40.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Lft	988.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	230.000
2057011	Grading, Driveway Approach	Syd	175.000
2057011	Grading, Sidewalk	Syd	42.000
2057011	Grading, Sidewalk Ramp	Syd	187.000
2057011	Machine Grading, Special	Syd	2,794.000
2057021	Subgrade Undercutting, Type IA	Cyd	209.000
2087050	Erosion Control, Inlet Filter	Ea	8.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	40.000
4030010	Dr Structure Cover, Type B	Ea	7.000
4030050	Dr Structure Cover, Type K	Ea	8.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	7.000
4037050	Dr Structure, Double Inlet	Ea	4.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	8.000
5010003	Cold Milling HMA Surface	Ton	632.000
5010005	HMA Surface, Rem	Syd	112.000
5010703	HMA, LVSP	Ton	632.000
6027021	Flowable Fill	Cyd	36.593
6030005	Cement	Ton	11.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	175.000
8027001	Curb and Gutter, Conc	Lft	558.000
8027001	Driveway Opening, Conc, Det M, Modified	Lft	452.000
8037001	Detectable Warning Surface, Modified	Ft	10.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1,679.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	200.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	175.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	61.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	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, Lighted, Furn	Ea	32.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	32.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	52.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	52.000
8127050	No Parking Sign	Ea	19.000
8167011	Slope Restoration	Syd	363.000
8230431	Gate Box, Adj, Case 1	Ea	1.000

BEACONSFIELD DRIVE

Quantity	Sign Code	Description	Area (sqft)	Total
8.0	D3-1	Street Name Sign	4.000	32.000
2.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	25.000
4.0	W20-1	Road Work Ahead Sign	9.000	36.000
4.0	W20-3	Road Closed Ahead Sign	9.000	36.000
		TOTAL		129.000

PAGE AVENUE & TICKNOR COURT

Quantity	Sign Code	Description	Area (sqft)	Total
4.0	D3-1	Street Name Sign	4.000	16.000
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		52.000

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
CHE	• 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

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- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
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- PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
- PAVE 2.0 INCHES OF LEVELING COURSE HMA MIX (LOCAL STREETS) AS SPECIFIED OR DIRECTED BY THE ENGINEER.
- ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- PAVE 2.0 INCHES OF TOP COURSE HMA MIX (LOCAL STREETS) AS SPECIFIED OR DIRECTED BY THE ENGINEER.
- COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN UP AND FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.

NOTES

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PROJECT MANAGEMENT SERVICES UNIT

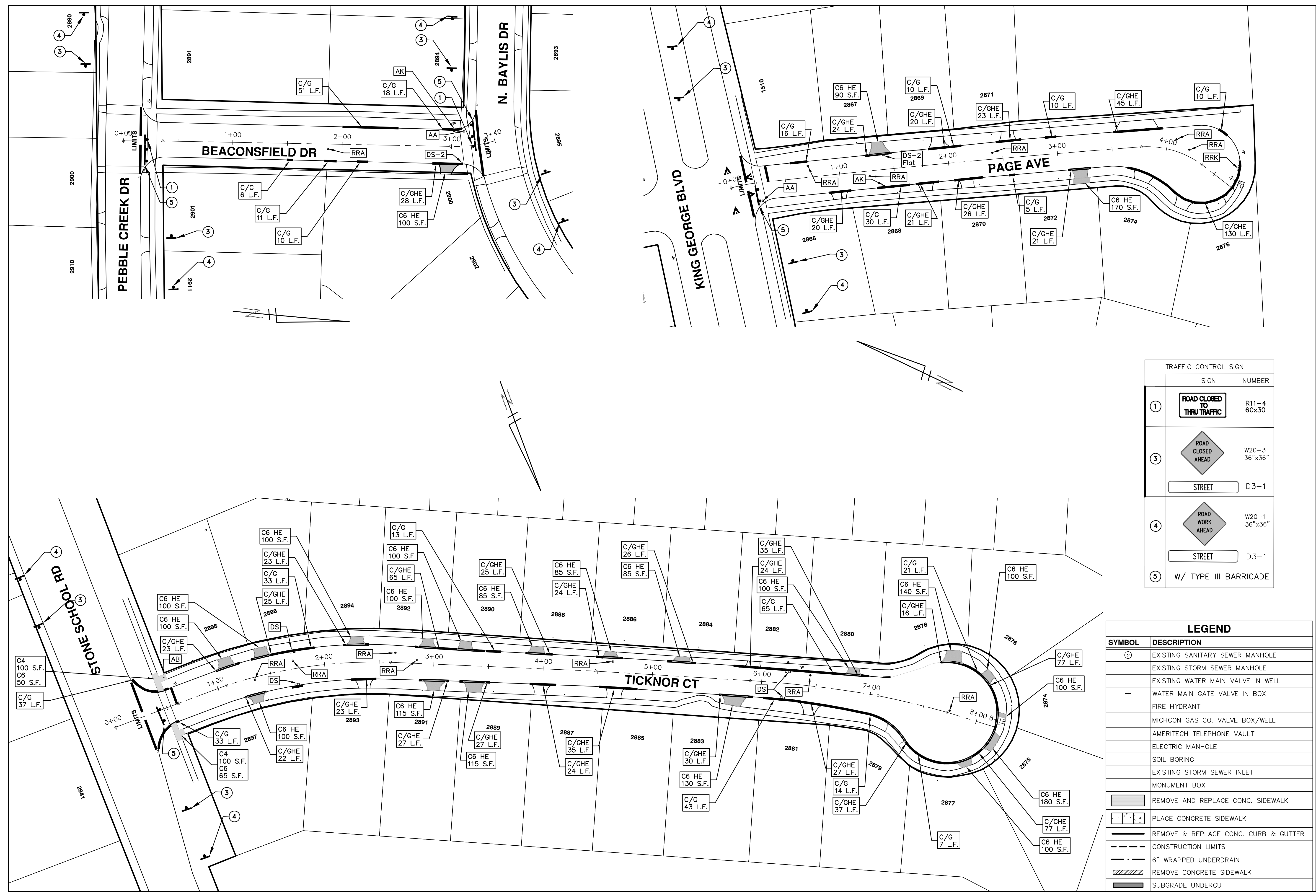
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
BEACONSFIELD DRIVE & PAGE AVENUE & TICKNOR COURT
DRAWING No. 2016004-95

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TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①		R11-4 60x30
③		W20-3 36"x36"
	STREET	D3-1
④		W20-1 36"x36"
	STREET	D3-1
⑤	W/ TYPE III BARRICADE	

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊕	EXISTING STORM SEWER MANHOLE
+	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
+	FIRE HYDRANT
+	MICHCON GAS CO. VALVE BOX/WELL
+	AMERITECH TELEPHONE VAULT
+	ELECTRIC MANHOLE
+	SOIL BORING
+	EXISTING STORM SEWER INLET
+	MONUMENT BOX
	REMOVE AND REPLACE CONC. SIDEWALK
	PLACE CONCRETE SIDEWALK
	REMOVE & REPLACE CONC. CURB & GUTTER
	CONSTRUCTION LIMITS
	6" WRAPPED UNDERDRAIN
	REMOVE CONCRETE SIDEWALK
	SUBGRADE UNDERCUT

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
 BEACONSFIELD DRIVE & PAGE AVENUE & TICKNOR COURT
 RESURFACING

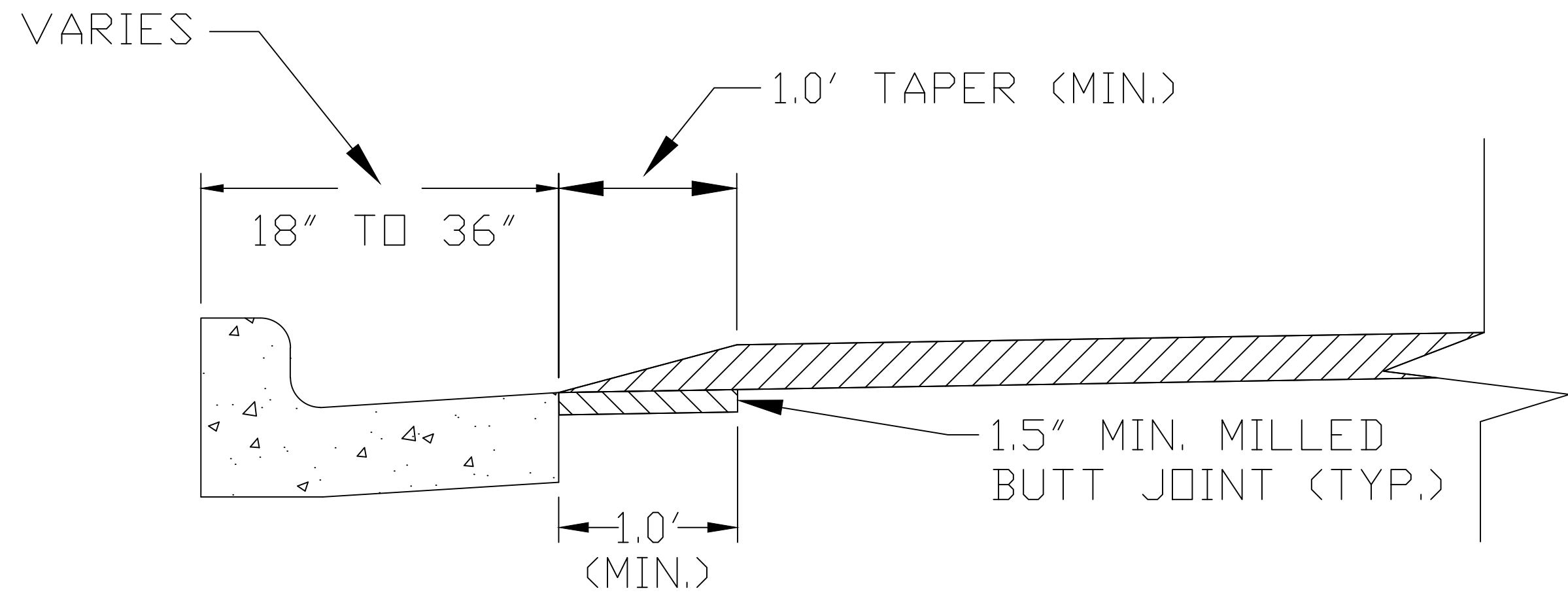
SCALE PLAN: 1" = 40'
 DRAWING NO. 2016004-96
 SHEET NO. 96 OF 97

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

CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 P.O. BOX 8667
 ANN ARBOR, MI 48108-0867
 www.a3gov.org

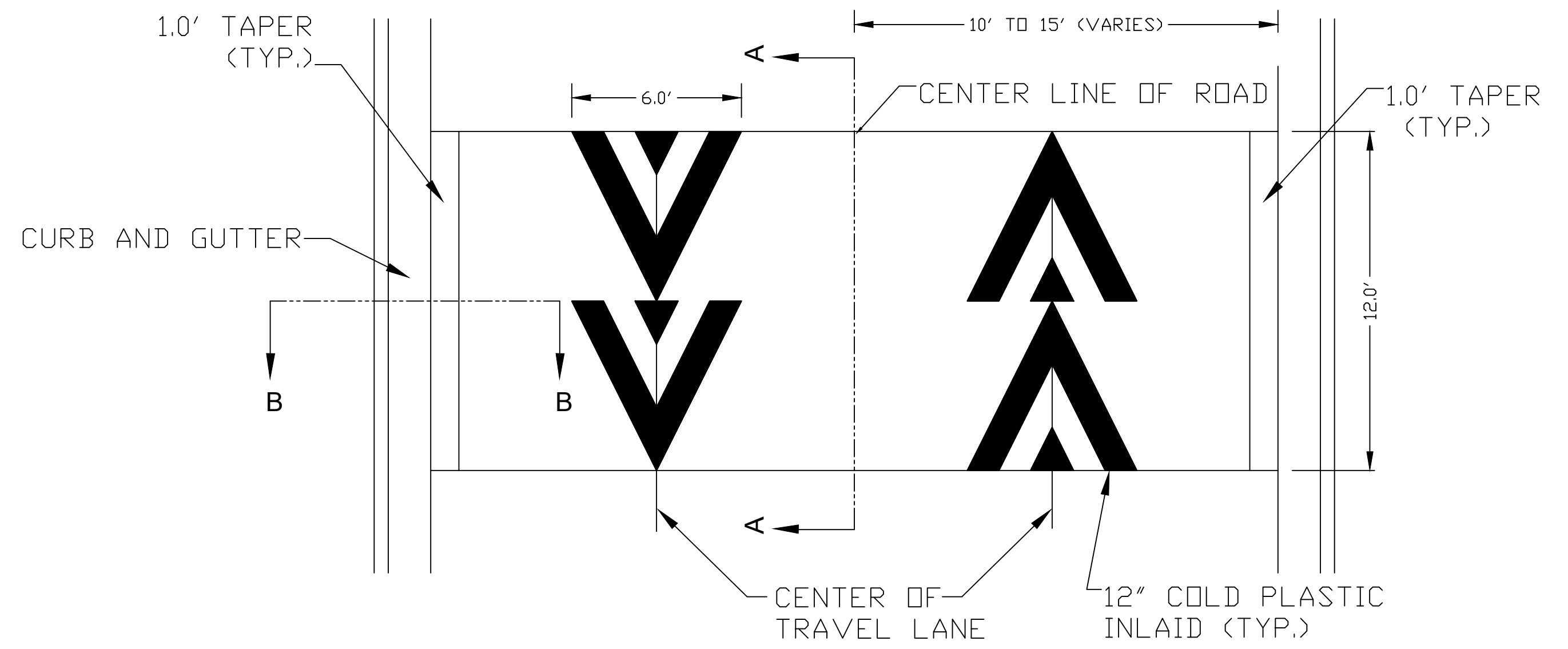
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00	2-22-2016	BID SET	GS AH UK	DAD

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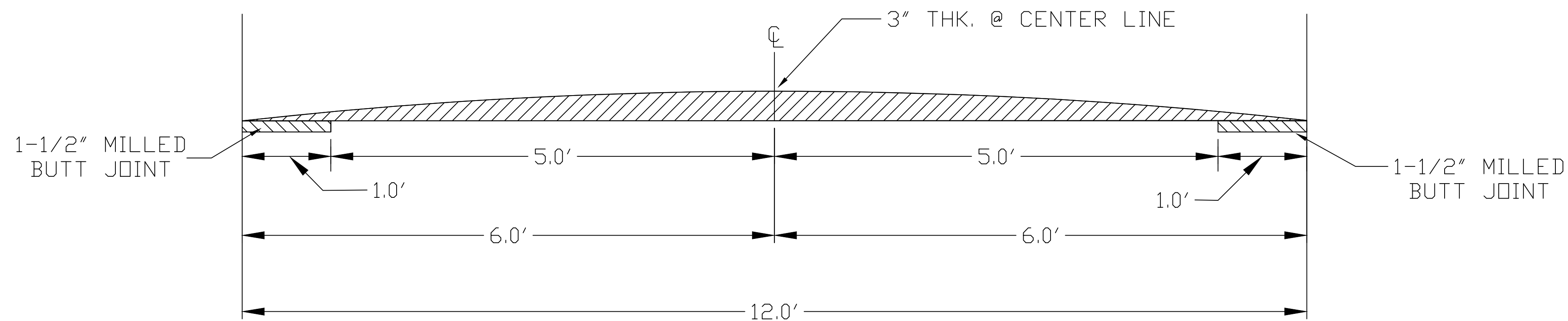


SPEED HUMP CROSS SECTION

SECTION B-B



PAVEMENT MARKING DETAIL



SPEED HUMP CROSS SECTION

SECTION A-A

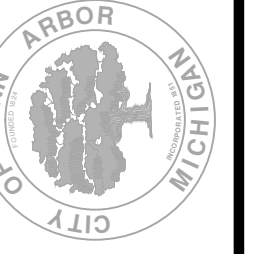
GENERAL NOTES

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	3-7-2016	ADDENDUM #1	DAD	DAD
00	2-22-2016	BID SET	SS AH JK	DAD

CITY OF ANN ARBOR
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
STREET RESURFACING - 2016
TRAFFIC CALMING DETAILS

SCALE: NTS
DRAWING No.
2016004-97