

ADDENDUM No. 3

ITB No. 4477

Street Resurfacing - 2017

Bids Due: March 30, 2017 at 10:00 A.M. (local time)

The following changes, additions, and/or deletions shall be made to the Invitation to Bid for Street Resurfacing - 2017, ITB No. 4477, on which proposals will be received on/or before March 30, 2017, at 10:00 A.M. (local time).

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum includes 137 pages.**

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

The following forms provided within the ITB Document must be included in submitted bids at bid opening.

- 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/CLARIFICATIONS

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

Item #1: The revised Contract Plan Set mistakenly was not included with Addendum 2; replace the original issued Bid Set dated 03-08-17 (sheets 1 thru 136) with set issued as Addendum 1 dated 03-24-17 (sheets 1 thru 136) and included with this Addendum 3.

Changes include the following:

Plan Sheets 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 29, 31, 51, 59, 64, 68, 74, 82, 116, 122 and 133 of 136 (Location Cover Sheets) – Revised QUANTITY TABLE and QUANTITY TABLE for Sign, Type B, Temp, Prismatic to reflect correct pay items and quantities respective to each location, 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 PROJECT MANAGEMENT

NOTES

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

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

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

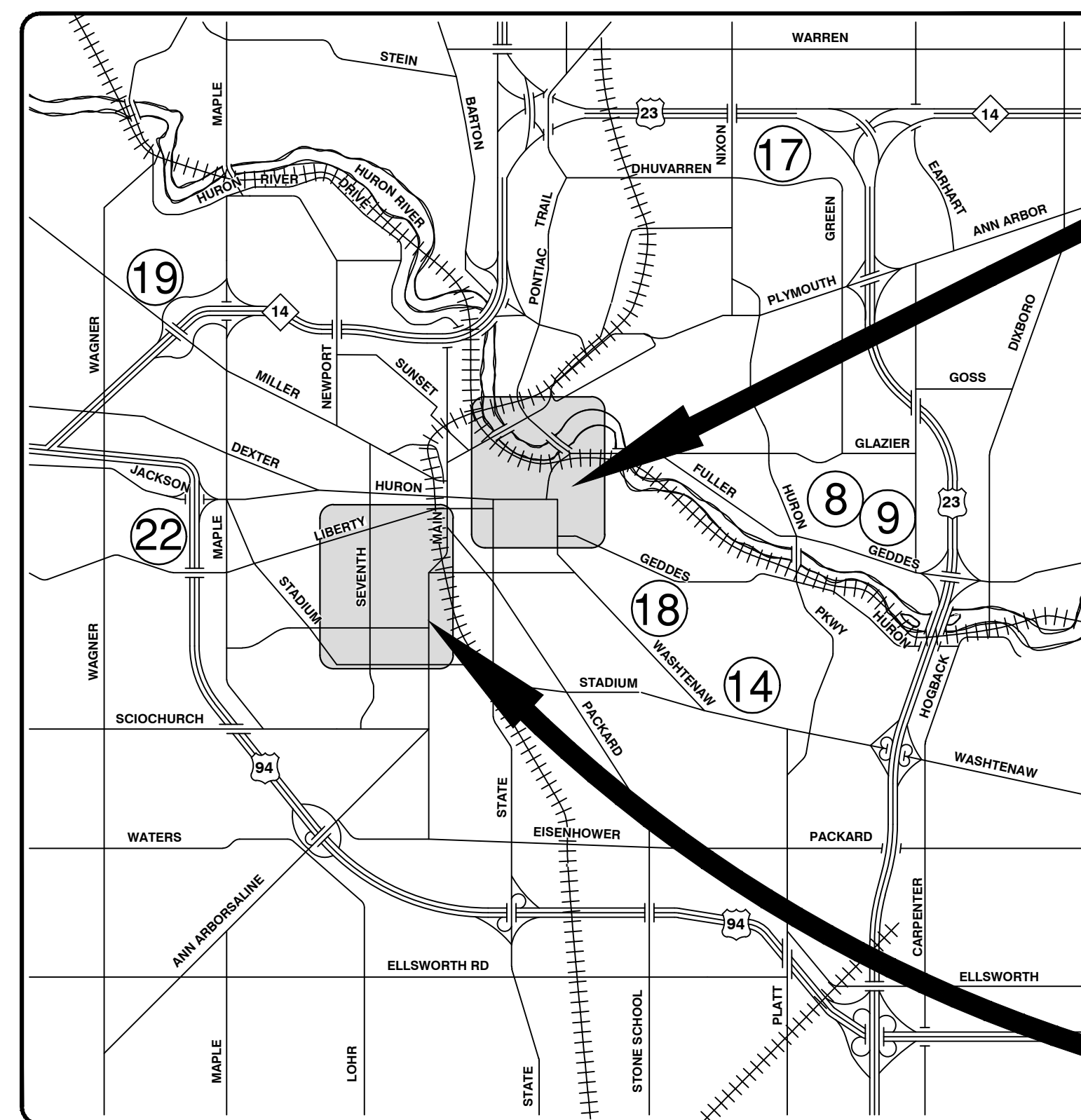
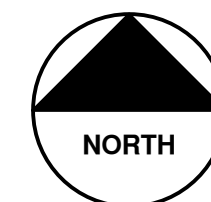


ANNUAL STREET RESURFACING - 2017

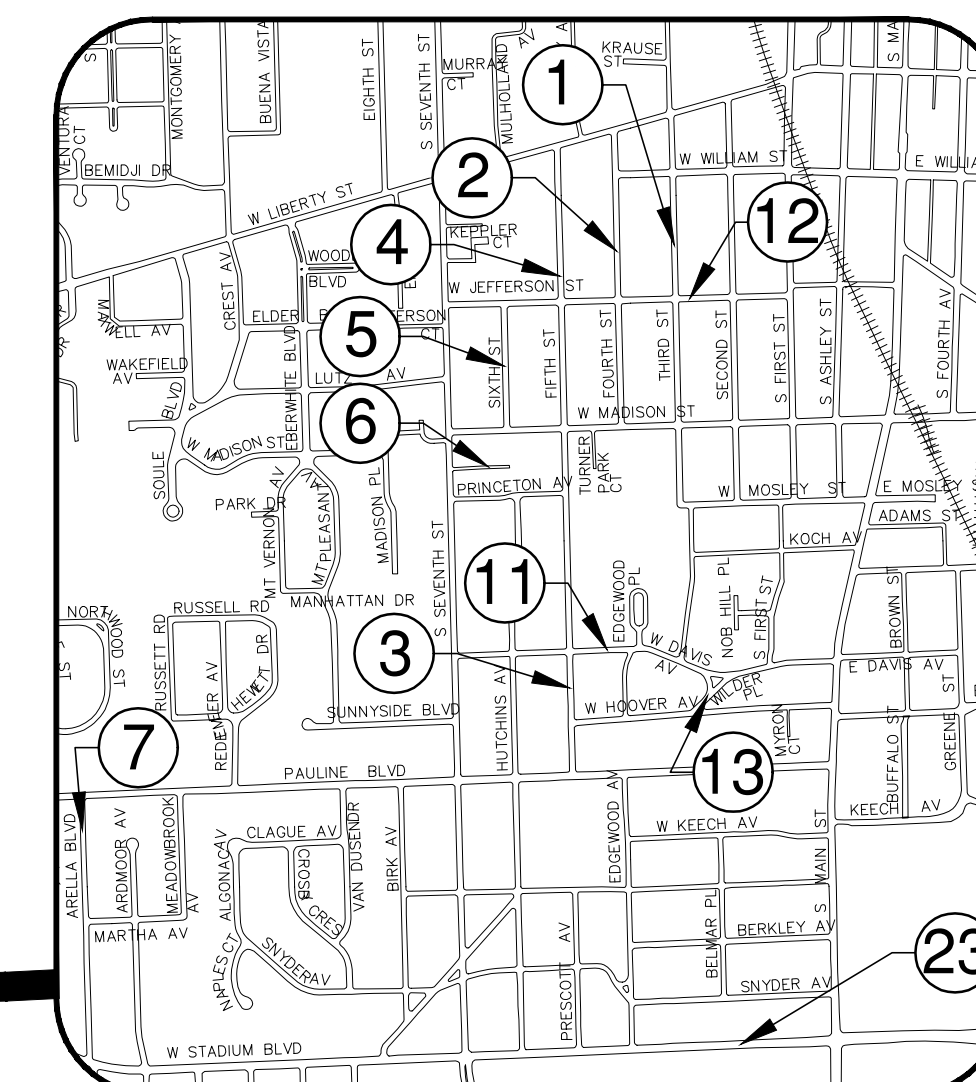
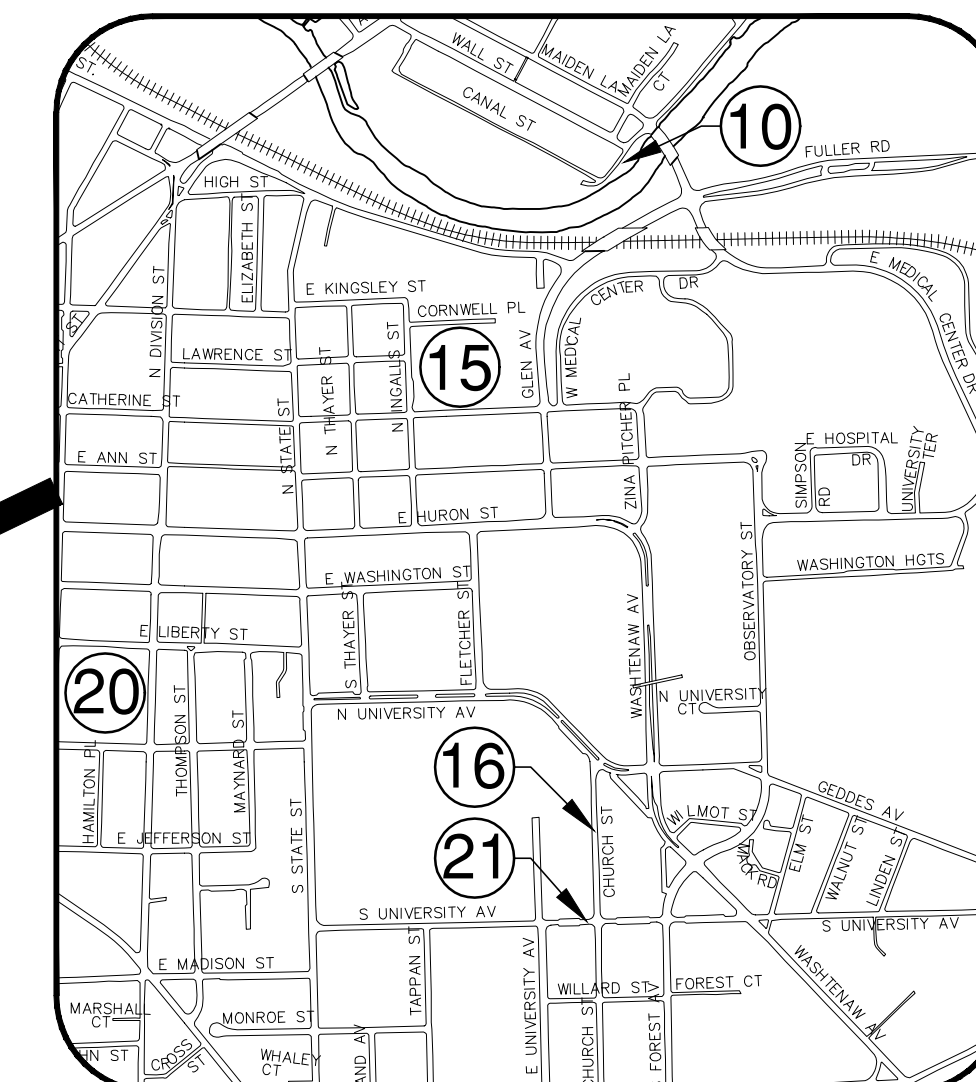
ITB No. 4477 FILE No. 2017004

SHEET INDEX

SHEET NO.	TITLE	MAP INDEX NO. (THIS SHEET)
1	COVER SHEET	
2	LEGEND	
3	TRAFFIC CALMING DETAIL	
4-5	THIRD STREET	1
6-7	FOURTH STREET	2
8-9	FIFTH STREET - W HOOVER AVE TO W DAVIS AVE	3
10-11	FIFTH STREET - PRINCETON ST TO W LIBERTY ST	4
12-13	SIXTH STREET	5
14-15	ALLEY - S SEVENTH ST TO DEAD END	6
16-17	ARELLA BOULEVARD	7
18-19	HIGH ORCHARD DRIVE	8
20-21	HIGH ORCHARD COURT	9
22-23	ISLAND DRIVE - CANAL ST TO WALL ST	10
24-25	WEST DAVIS AVENUE	11
26-28	WEST JEFFERSON STREET	12
29-30	WILDER PLACE	13
31-50	ARLINGTON BOULEVARD	14
51-58	CATHERINE STREET	15
59-63	CHURCH STREET	16
64-67	GREEN ROAD NON-MOTORIZED PATH	17
68-73	HILL STREET	18
74-81	MILLER AVENUE	19
82-115	SOUTH DIVISION STREET	20
116-121	SOUTH UNIVERSITY AVENUE	21
122-132	WEST LIBERTY STREET	22
133-136	WEST STADIUM BOULEVARD	23



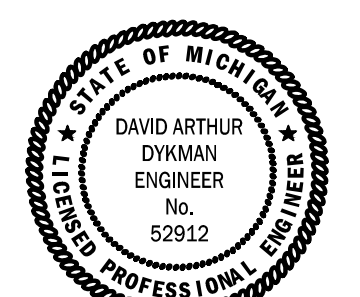
VICINITY MAP



PROJECT MANAGEMENT SERVICE UNIT

PREPARED UNDER THE SUPERVISION OF

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



03 / 08 / 2017
DATE

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

PROJECT DESCRIPTION
MAJOR AND LOCAL STREET RESURFACING

SHEET No.
1 OF 136

DRAWING No.
2017004 - 1

EXISTING LEGEND

	FIRE HYDRANT
	GATE VALVE IN BOX
	GATE VALVE IN WELL
	STOP BOX
	WATER VAULT
	WELL
	CATCH BASIN (SQ)
	CATCH BASIN (RD)
	STORM MANHOLE
	NON-CURB CATCH BASIN (SQ)
	END SECTION
	SANITARY MANHOLE
	CLEAN-OUT
	POST
	PEDESTRIAN SIGNAL
	SIGN
	HAND HOLE
	ORNAMENTAL LIGHT
	FLOOD LIGHT
	UNKNOWN MANHOLE
	TELEPHONE MANHOLE
	TELEPHONE RISER
	GAS VALVE
	GAS VENT
	GAS BOX
	ELECTRICAL RISER
	TRANSFORMER
	UTILITY POLE
	LAMP POLE
	GUY ANCHOR
	GUY POLE
	MONITORING WELL
	MAILBOX
	SOIL BORING
	TRAVERSE POINT
	BENCH MARK
	IRON PIPE
	MON BOX

	WATER MAIN
	WATER MAIN ABANDONED
	STORM SEWER
	STORM SEWER ABANDONED
	SANITARY SEWER
	SANITARY SEWER ABANDONED
	GAS MAIN
	GAS MAIN (DEAD)
	ELECTRICAL OVER HEAD
	ELECTRICAL UNDER GROUND
	ELECTRICAL DUCT BANK
	TELEPHONE OVER HEAD
	TELEPHONE UNDER GROUND
	TELEPHONE DUCT BANK
	CABLE TV OVER HEAD
	CABLE TV UNDER GROUND
	FIBER OPTIC
	FIBER OPTIC DUCT BANK
	BOUNDARY
	BUILDING
	CENTERLINE OF DITCH
	CENTERLINE/CROWN OF ROAD
	CONTOUR MAJOR
	CONTOUR MINOR
	EDGE OF WATER
	FLOODPLAIN
	FENCE
	GRAVEL
	GUARDRAIL
	STONE WALL
	R.O.W.
	TREELINE
	WETLAND
	EDGE OF BRUSH
	HEDGE

	TREE (DECIDUOUS)
	TREE (CONIFEROUS)
	SHRUB (DECIDUOUS)
	STUMP
	TREE TO REMAIN & PROTECT (DECIDUOUS) CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREST HEIGHT (INCHES) X 10
	TREE TO REMAIN & PROTECT (CONIFEROUS) CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREST HEIGHT (INCHES) X 10

PROPOSED LEGEND

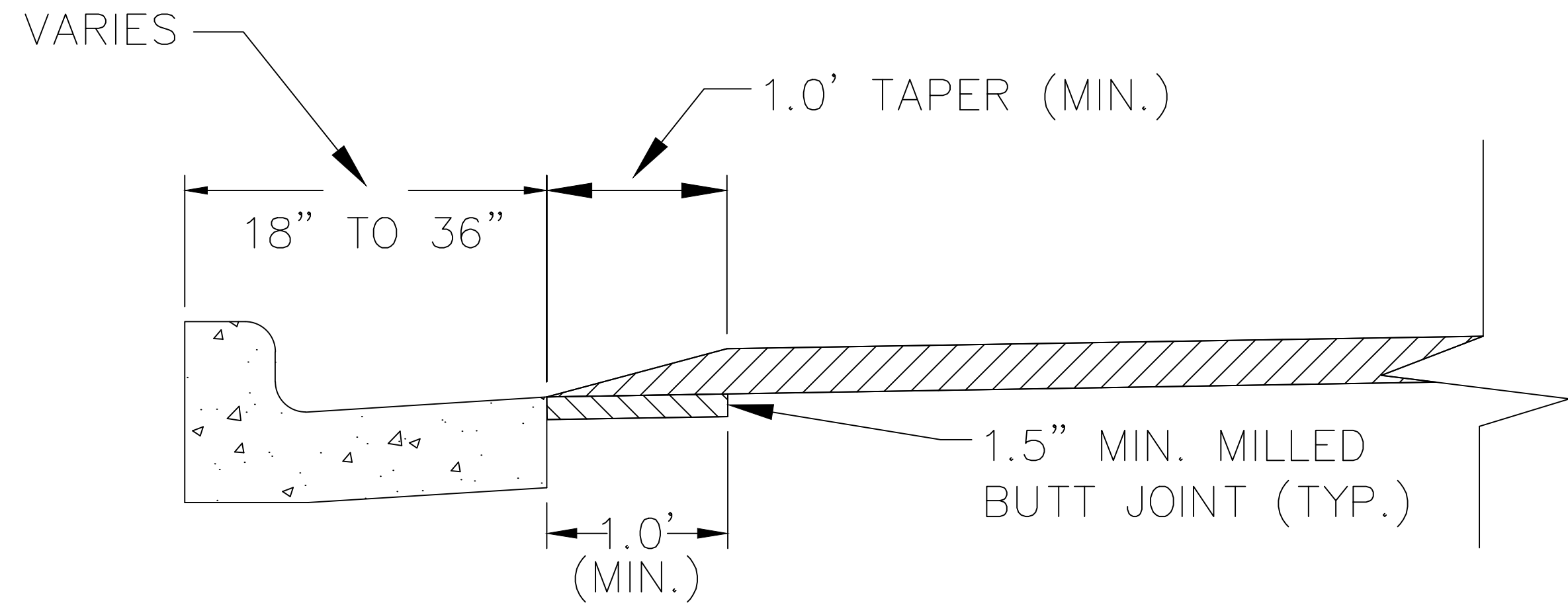
	HYDRANT (PLAN)
	WATER GATE WELL
	REDUCER
	WATER GATE VALVE
	WATER STOP BOX
	WATER VAULT
	INLET
	DOUBLE INLET
	INLET JUNCTION CHAMBER
	ROUND CATCH BASIN
	STORM MANHOLE
	DRAIN ARROW
	FLARED END SECTION
	SANITARY MANHOLE
	CLEAN-OUT
	SIGN
	PUSH BUTTON
	HAND HOLE

	WATER MAIN
	STORM SEWER
	SANITARY SEWER
	FIBER OPTIC
	ELECTRICAL
	CENTERLINE OF DITCH
	CENTERLINE OF ROAD
	FENCE
	GRAVEL
	SILT FENCE
	PROTECTIVE FENCE
	GUARDRAIL
	FLARED END SECTION
	CURB
	TEMPORARY GRADING PERMIT
	CONTOUR MAJOR
	CONTOUR MINOR
	WATER EASMENT
	STORM EASEMENT
	SANITARY EASEMENT
	R.O.W.
	LIMITS OF CONSTRUCTION
	LIMIT OF GRADING
	STONE WALL

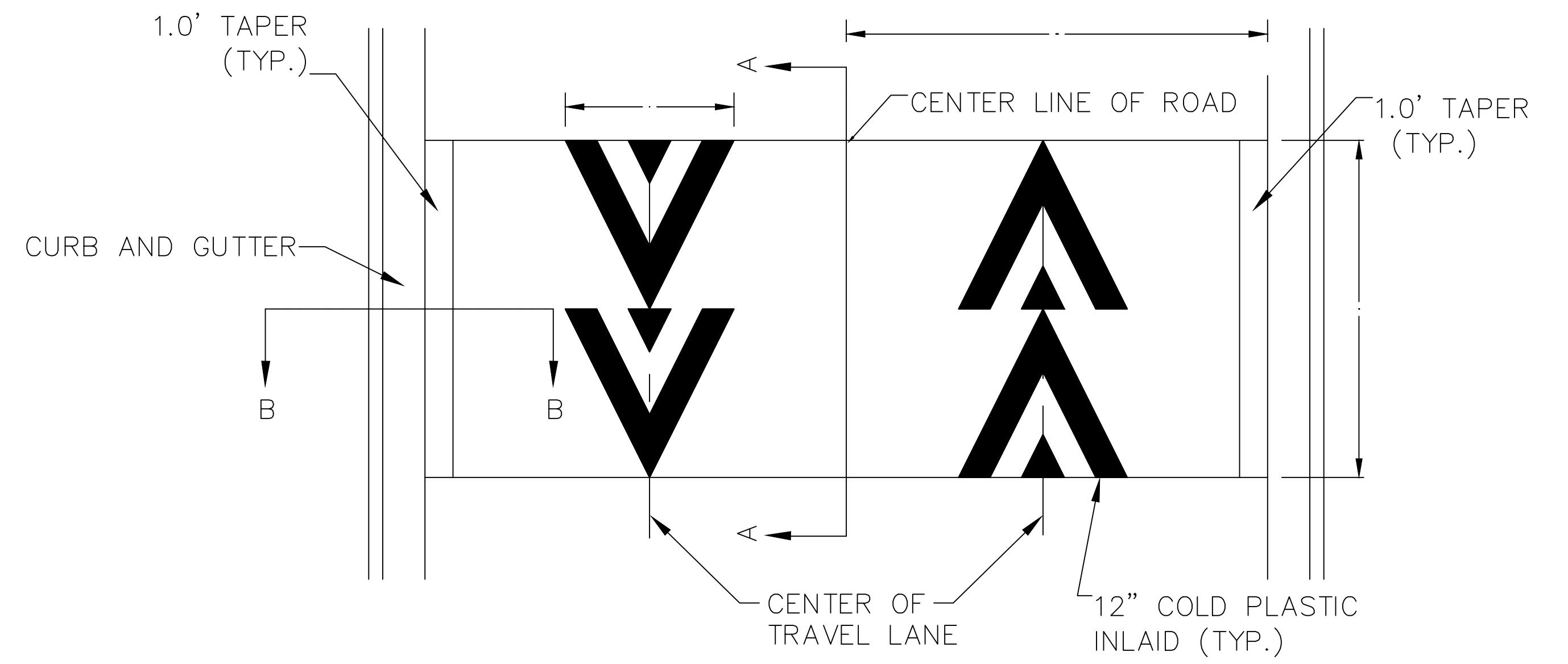
	DETECTABLE WARNING
	ASPHALT
	CONCRETE
	SIDEWALK
	TREE (DECIDUOUS)
	TREE (CONIFEROUS)
	TREE TO BE REMOVED (DECIDUOUS)
	TREE TO BE REMOVED (CONIFEROUS)
	STUMP TO BE REMOVED

Know what's below.
Call before you dig.

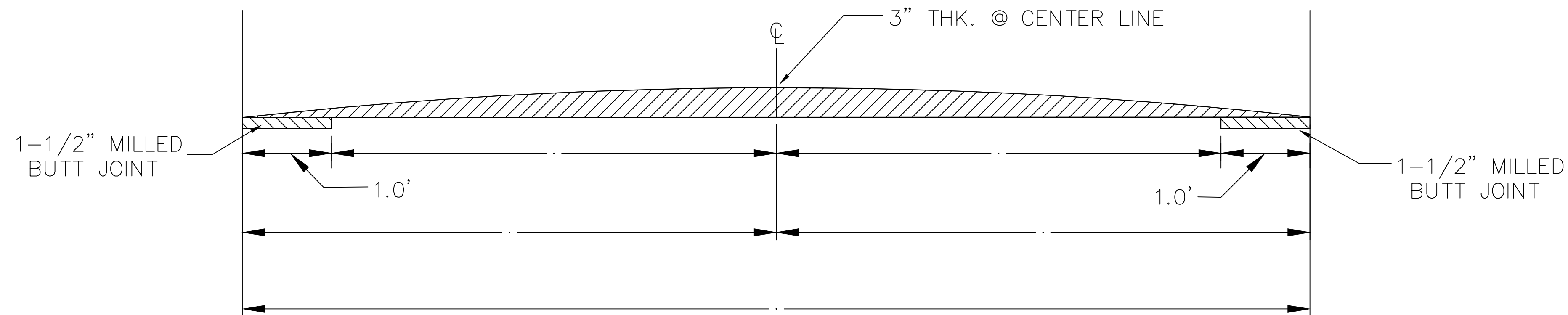
REV.		CHECKED	DRAWN	DATE	DESCRIPTION
01	AG.GS.RG	DAD		03-24-17	
00	AG.GS.RG	DAD		03-08-17	
00	BID SET				
<p>CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-6647 ANN ARBOR 734-794-4410 www.aagov.org</p>					
<p>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2017</p>					
<p>SCALE : N/A DRAWING No. 2017004-2</p>					
<p>SHEET No. 2 OF 136</p>					



SPEED HUMP CROSS SECTION
SECTION B-B



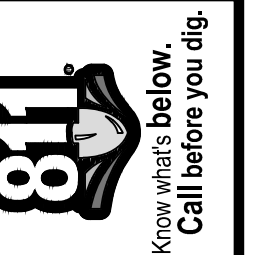
PAVEMENT MARKING DETAIL



SPEED HUMP CROSS SECTION
SECTION A-A

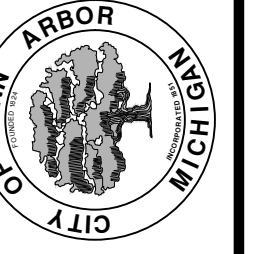
GENERAL NOTES

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	03-24-17	AG.GS.RG	DAD	DAD
00	03-08-17	AG.GS.RG	DRAWN	CHECKED

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



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017

TRAFFIC CALMING DETAIL

SCALE PLAN: NONE
DRAWING No. 2017004-3



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: 3RD STREET

ITB No. 4477 FILE No. 2017-004

CONSTRUCTION METHOD AND SEQUENCING

IN ACCORDANCE WITH THE SCHEDULE OF STREETS WORK ON THIS STREET IS TO OCCUR CONCURRENTLY WITH THAT PROPOSED FOR 6TH STREET. WORK ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE 4.0 INCHES OF EXISTING HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
- PERFORM ALL JOINT AND CRACK CLEANOUT, HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS DIRECTED.
- CLEAN PAVEMENT AS REQUIRED, AND PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2.0 INCH TOP COURSE HMA MIX (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- 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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THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

QUANTITIES			
Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	3.000
2030015	Sewer, Rem, Less than 24 inch	Ft	30.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	106.000
2057011	Machine Grading, Special	Syd	4,571.000
2057021	Subgrade Undercutting, Type IIA	Cyd	458.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	7.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	30.000
4030200	Dr Structure, 24 inch dia	Ea	3.000
4037050	Dr Structure Cover, Type B, Modified	Ea	8.000
4037050	Dr Structure Cover, Type K, Modified	Ea	3.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	11.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	8.000
5010003	Cold Milling HMA Surface	Ton	1,033.000
5010005	HMA Surface, Rem	Syd	44.000
5010703	HMA, LVSP	Ton	1,033.000
5017031	HMA, Wedging, 36A	Ton	8.000
6027021	Flowable Fill	Cyd	3.926
8027001	Curb and Gutter, Conc	Ft	118.000
8117001	Pav Mrkg, Wet Retrflec, Thermopl, 6 inch, Crosswalk	Ft	140.000
8117001	Pav Mrkg, Wet Retrflec, 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	53.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	53.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	129.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	129.500
8127050	No Parking Sign	Ea	35.000
8167011	Slope Restoration	Syd	120.000
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
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
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

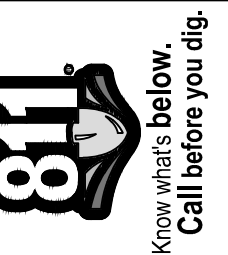
LEGEND	
SYMBOL	DESCRIPTION
⊕	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊕	MICHCON GAS CO. VALVE BOX/WELL
⊕	AMERITECH TELEPHONE VAULT
⊕	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
□	MONUMENT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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
5.0	D3-1	Street Name Sign	4.000	20.000
3.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	37.500
6.0	W20-1	Road Work Ahead Sign	9.000	54.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
TOTAL			129.500	129.500



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\2017004\Plan Production\2017004 - 3rd Street.dwg Dwg Created: 1-Nov-16 16:02 standard bw.stb - Plot Date: 27-Mar-17



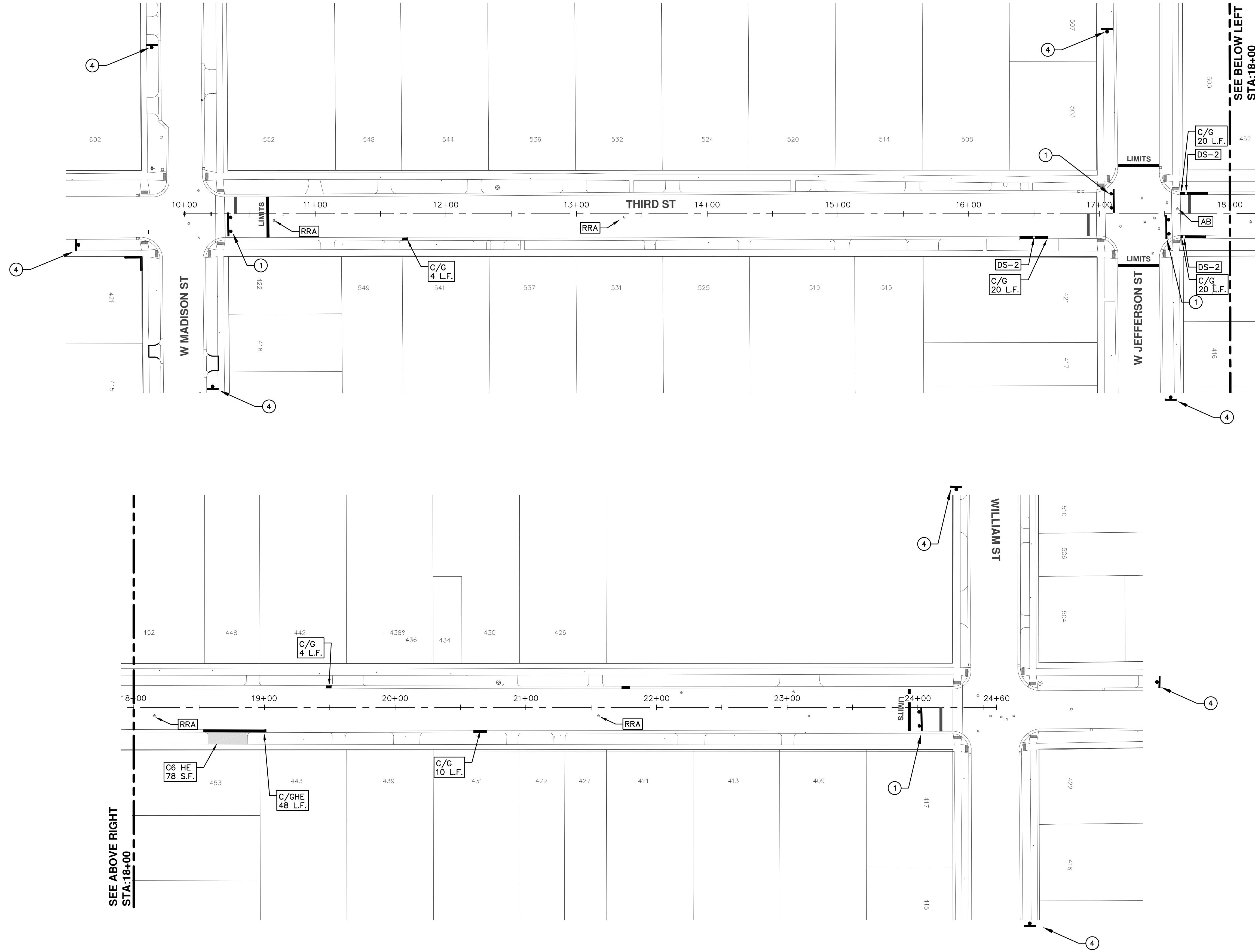
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

ANNUAL STREET RESURFACING - 2017

3RD STREET

DRAWING No. 2017004-4

SHEET No. 4 OF 136



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 ANNUAL STREET RESURFACING - 2017
 3RD STREET
 STA. 10+00 - STA. 24+60

SCALE PLAN: 1"=80'
 DRAWING No. 2017004-5

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

CITY OF ANN ARBOR
 PUBLIC SERVICE
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-6647
 ANN ARBOR 734-794-4410
 www.a2gov.org

TRAFFIC CONTROL SIGN

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD

SHEET No. 5 OF 136



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: 4TH STREET

ITB No. 4477 FILE No. 2017-004

CONSTRUCTION METHOD AND SEQUENCING

IN ACCORDANCE WITH THE SCHEDULE OF STREETS WORK ON THIS STREET IS TO OCCUR CONCURRENTLY WITH THAT PROPOSED FOR 5TH STREET AND WEST JEFFERSON STREET. WORK ON EACH LOCATION MAY OCCUR SIMULTANEOUSLY WITH EXCEPTION TO COLDMILLING AND LEVELING COURSE PAVING ACTIVITIES, WHICH TOGETHER SHALL BE COMPLETED SEQUENTIALLY STREET BY STREET. WORK ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE 4.0 INCHES OF EXISTING HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
- PERFORM ALL JOINT AND CRACK CLEANOUT, HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS DIRECTED.
- CLEAN PAVEMENT AS REQUIRED, AND PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2.0 INCH TOP COURSE HMA MIX (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- 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 THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

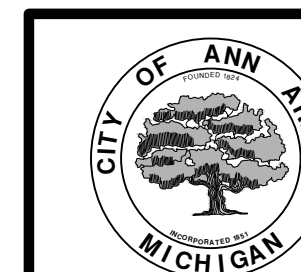
THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

QUANTITIES			
Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	2.000
2030015	Sewer, Rem, Less than 24 inch	Ft	20.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	170.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	13.000
2057011	Machine Grading, Special	Syd	4,575.000
2057021	Subgrade Undercutting, Type IIA	Cyd	458.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	7.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	20.000
4030200	Dr Structure, 24 inch dia	Ea	2.000
4037050	Dr Structure Cover, Type B, Modified	Ea	8.000
4037050	Dr Structure Cover, Type K, Modified	Ea	2.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	11.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	10.000
5010003	Cold Milling HMA Surface	Ton	1,034.000
5010005	HMA Surface, Rem	Syd	100.550
5010703	HMA, LVSP	Ton	1,034.000
5017031	HMA, Wedging, 36A	Ton	8.000
6027021	Flowable Fill	Cyd	6.296
6030005	Cement	Ton	1.000
8017011	Driveway, Nonreinf Conc, 8 inch, Modified	Syd	16.000
8027001	Curb and Gutter, Conc	Ft	145.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	33.000
8117001	Pav Mrkg, Wet Retrefec, Thermopl, 6 inch, Crosswalk	Ft	140.000
8117001	Pav Mrkg, Wet Retrefec, Thermopl, 12 inch, Crosswalk	Ft	192.000
8117001	Pav Mrkg, Wet Retrefec, Thermopl, 24 inch, Stop Bar	Ft	32.000
8117050	Pav Mrkg, Wet Retrefec, Thermopl, School	Ea	2.000
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	57.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	57.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	129.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	129.500
8127050	No Parking Sign	Ea	41.000
8167011	Slope Restoration	Syd	63.000
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
C HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc, 6 inch, Modified • Driveway, Nonreinf Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet
PT	• Dr Structure, Point
RRA	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
5.0	D3-1	Street Name Sign	4.000	20.000
3.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	37.500
6.0	W20-1	Road Work Ahead Sign	9.000	54.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
TOTAL				129.500

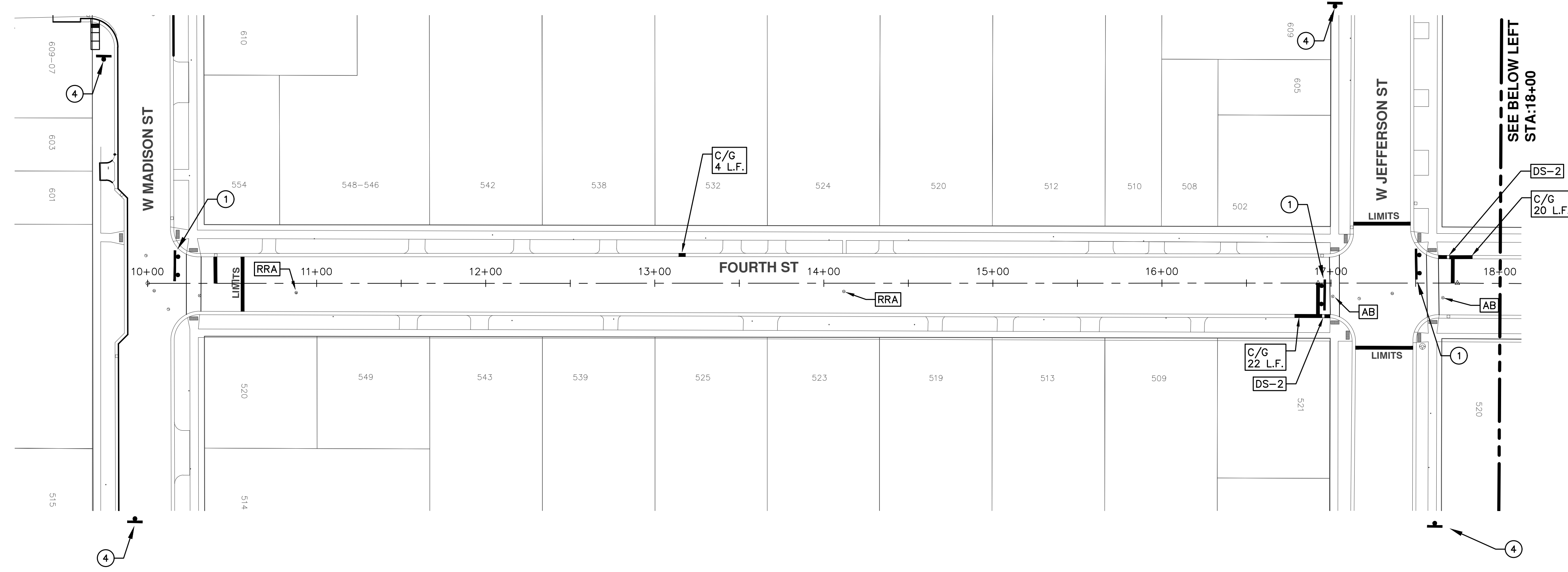
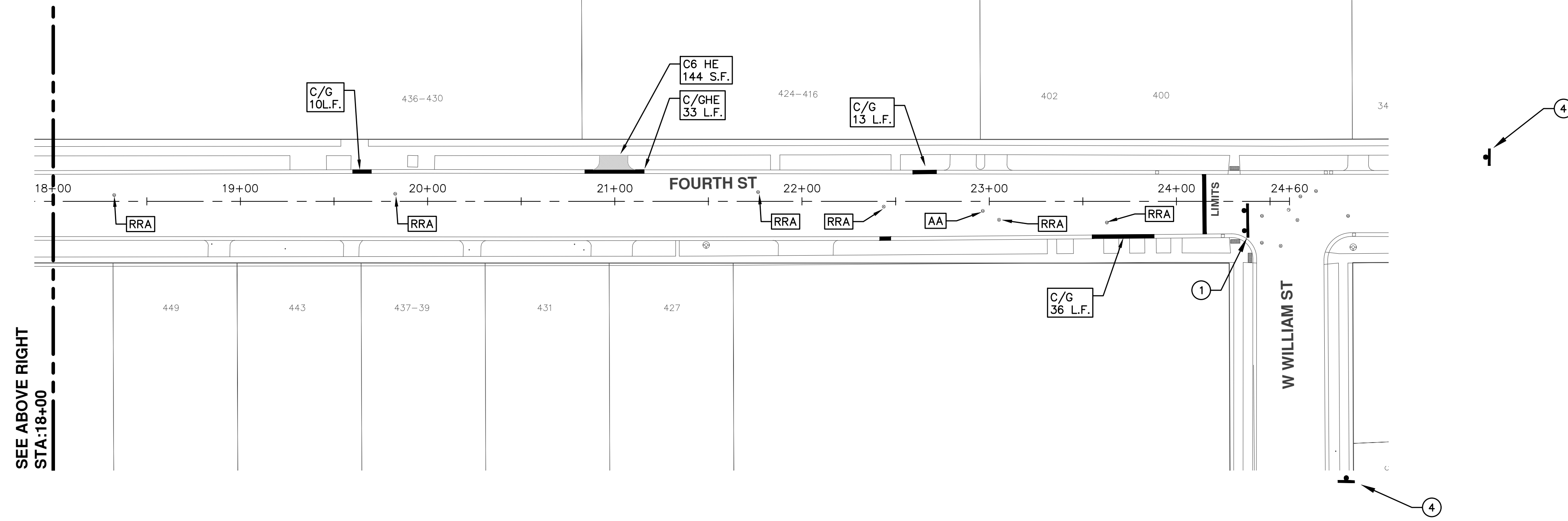


PROJECT MANAGEMENT SERVICES UNIT

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



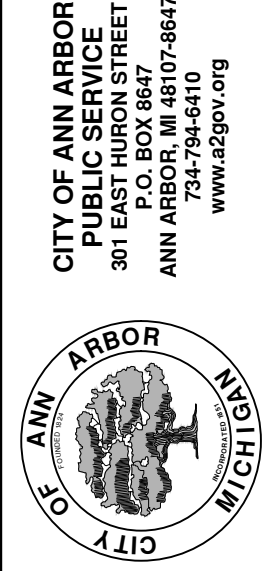
S:\Project Management\Drafting\autocad\2017004\Plan Production\2017004 - 4th Street.dwg Dwg Created: 7-Nov-16 - _a2_standard bw.stb - Plot Date: 27-Mar-17



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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=80'
 DRAWING No. 2017004-7

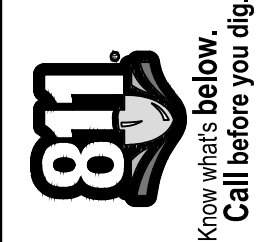
ANNUAL STREET RESURFACING - 2017
 4TH STREET
 STA. 10+00 - STA. 24+60



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

REV.	DATE	DESCRIPTION
01	03-24-17	AG.GS.RG
00	03-08-17	AG.GS.RG

DRAWN	CHECKED
AG.GS.RG	DAD
AG.GS.RG	DAD





CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: 5TH STREET - W HOOVER AVE TO W DAVIS AVE

ITB No. 4477 FILE No. 2017-004

CONSTRUCTION METHOD AND SEQUENCING

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

1. IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
2. CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
3. INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
4. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
5. TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
6. REMOVE 4.0 INCHES OF EXISTING HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
7. PERFORM ALL JOINT AND CRACK CLEANOUT, HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
8. GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS DIRECTED.
9. CLEAN PAVEMENT AS REQUIRED, AND PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
10. ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
11. CLEAN PAVEMENT AND PLACE 2.0 INCH TOP COURSE HMA MIX (LOCAL STREETS).
12. CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN UP AND FINAL RESTORATION.
14. 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 IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

QUANTITIES			
Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	1,000
2030015	Sewer, Rem, Less than 24 inch	Ft	10,000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	79,500
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	29,000
2057011	Grading, Driveway Approach	Syd	28,000
2057011	Machine Grading, Special	Syd	1,311,000
2057021	Subgrade Undercutting, Type IIA	Cyd	121,000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	3,000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	10,000
4030200	Dr Structure, 24 inch dia	Ea	1,000
4037050	Dr Structure Cover, Type K, Modified	Ea	1,000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	3,000
4037050	Dr Structure, Temp Lowering, Modified	Ea	2,000
5010003	Cold Milling HMA Surface	Ton	297,000
5010005	HMA Surface, Rem	Syd	58,100
5010703	HMA, LVSP	Ton	297,000
5017031	HMA, Wedging, 36A	Ton	8,000
6027021	Flowable Fill	Cyd	2,944
6030005	Cement	Ton	2,000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	28,000
8027001	Curb and Gutter, Conc	Ft	31,000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	48,500
8117001	Pav Mrlg, Wet Retrflec, Thermopl, 6 inch, Crosswalk	Ft	70,000
8117001	Pav Mrlg, Wet Retrflec, Thermopl, 24 inch, Stop Bar	Ft	16,000
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	14,000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	14,000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	90,000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	90,000
8127050	No Parking Sign	Ea	13,000
8167011	Slope Restoration	Syd	30,000
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
O6	• 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 • Cement
CHE	• 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

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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
5.0	D3-1	Street Name Sign	4,000	20,000
2.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12,500	25,000
3.0	W20-1	Road Work Ahead Sign	9,000	27,000
2.0	W20-3	Road Closed Ahead Sign	9,000	18,000
TOTAL				90,000

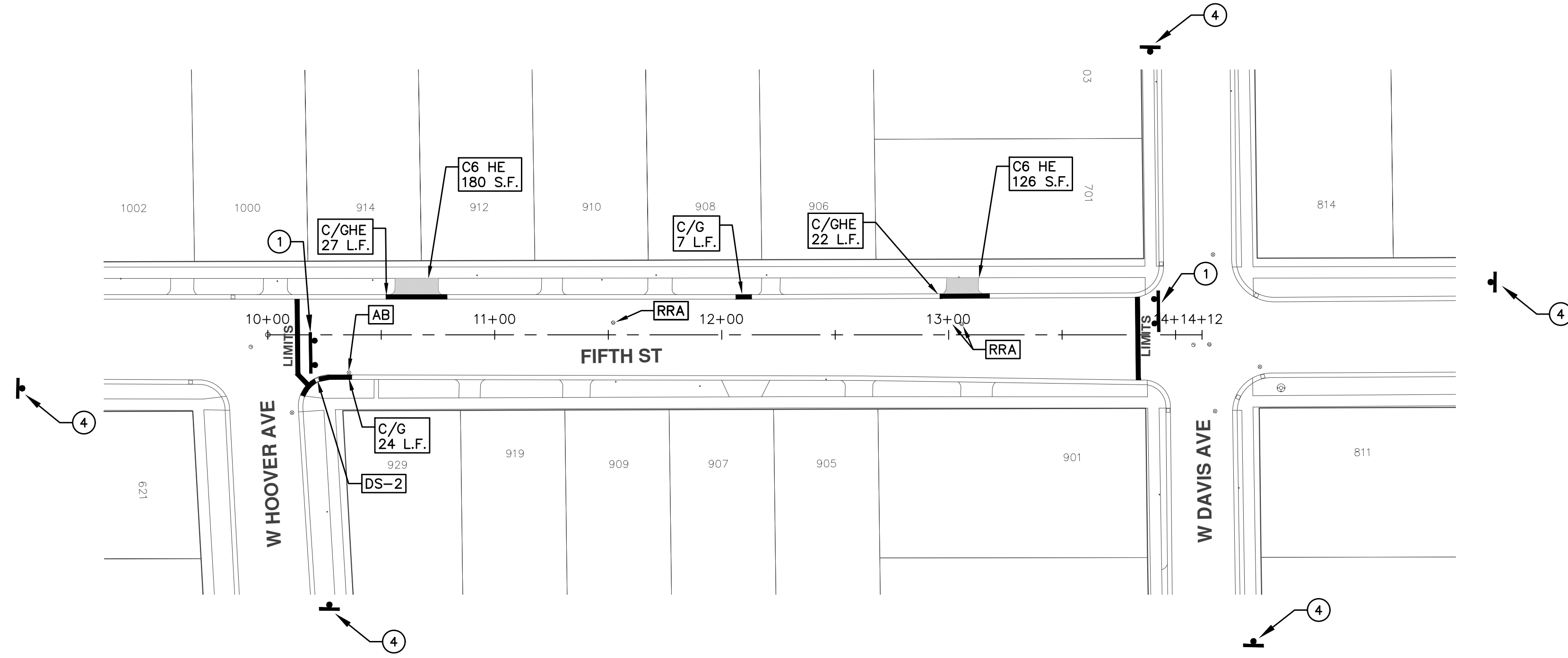


PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

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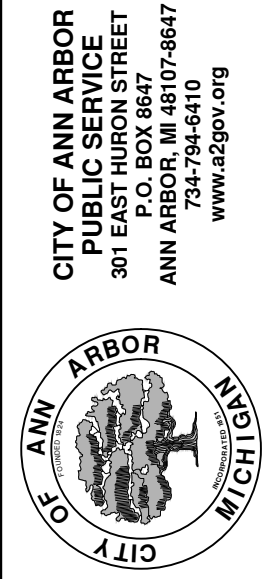
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
5TH STREET - W HOOVER AVE TO W DAVIS AVE
DRAWING No. 2017004-8



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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=80'
ANNUAL STREET RESURFACING - 2017
 5TH STREET - W HOOVER AVE TO W DAVIS AVE
 STA. 10+00 - STA. 14+12

SHEET No.
2017004-9
9 OF 136



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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD





CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: 5TH STREET - PRINCETON ST TO W LIBERTY ST

ITB No. 4477 FILE No. 2017-004

CONSTRUCTION METHOD AND SEQUENCING

IN ACCORDANCE WITH THE SCHEDULE OF STREETS WORK ON THIS STREET IS TO OCCUR CONCURRENTLY WITH THAT PROPOSED FOR 4TH STREET AND WEST JEFFERSON STREET. WORK ON EACH LOCATION MAY OCCUR SIMULTANEOUSLY WITH EXCEPTION TO COLDMILLING AND LEVELING COURSE PAVING ACTIVITIES, WHICH TOGETHER SHALL BE COMPLETED SEQUENTIALLY STREET BY STREET. WORK ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE 4.0 INCHES OF EXISTING HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
- PERFORM ALL JOINT AND CRACK CLEANOUT, HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS DIRECTED.
- CLEAN PAVEMENT AS REQUIRED, AND PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2.0 INCH TOP COURSE HMA MIX (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- 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 THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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

QUANTITIES			
Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	3.000
2030015	Sewer, Rem, Less than 24 inch	Ft	30.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	244.500
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	139.000
2057011	Grading, Driveway Approach	Syd	28.000
2057011	Grading, Sidewalk	Syd	78.660
2057011	Grading, Sidewalk Ramp	Syd	33.330
2057011	Machine Grading, Special	Syd	7.895.000
2057021	Subgrade Undercutting, Type IIA	Cyd	698.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	5.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	30.000
4030200	Dr Structure, 24 inch dia	Ea	3.000
4037050	Dr Structure Cover, Type B, Modified	Ea	9.000
4037050	Dr Structure Cover, Type K, Modified	Ea	3.000
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	1,785.000
5010005	HMA Surface, Rem	Syd	111.880
5010061	HMA, Approach	Ton	208.000
5010703	HMA, LVSP	Ton	1,577.000
5017031	HMA, Wedging, 36A	Ton	8.000
6027021	Flowable Fill	Cyd	9.056
6030005	Cement	Ton	2.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	28.000
8027001	Curb and Gutter, Conc	Ft	145.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	105.000
8037001	Detectable Warning Surface, Modified	Ft	20.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	300.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	708.000
8117001	Pav Mrkg, Wet Retrflec, Thermopl, 6 inch, Crosswalk	Ft	210.000
8117001	Pav Mrkg, Wet Retrflec, Thermopl, 12 inch, Crosswalk	Ft	104.000
8117001	Pav Mrkg, Wet Retrflec, Thermopl, 24 inch, Stop Bar	Ft	45.000
8117050	Pav Mrkg, Wet Retrflec, Thermopl, School	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	7.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	7.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	90.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	90.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	191.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	191.500
8127050	No Parking Sign	Ea	60.000
8167011	Slope Restoration	Syd	90.000

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
C HE	• 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

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

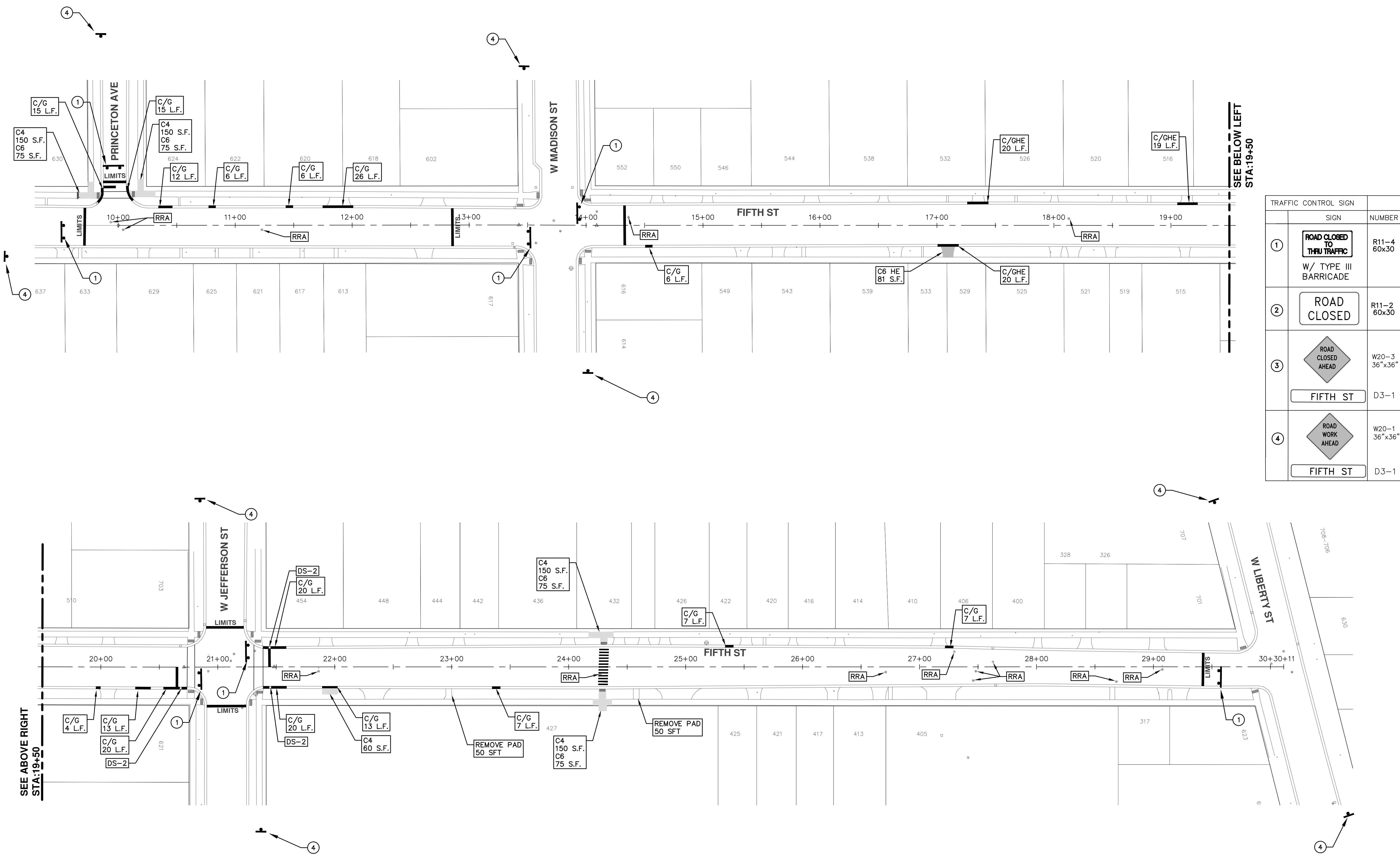
QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sqft)	Total Area
8.0	D3-1	Street Name Sign	4.000	32.000
7.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	87.500
7.0	W20-1	Road Work Ahead Sign	9.000	63.000
1.0	W20-3	Road Closed Ahead Sign	9.000	9.000
TOTAL				191.500



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\2017004\Plan Production\2017004 - 5th Street North.dwg Dwg Created: 7-Nov-16 - _g2 standard bw.stb - Plot Date: 27-Mar-17



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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 ANNUAL STREET RESURFACING - 2017
 5TH STREET - PRINCETON ST TO W LIBERTY ST
 STA. 10+00 - STA. 30+11

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

AG.GS.RG 03-24-17
 AG.GS.RG 03-08-17
 DATE
 DAD
 DAD
 DRAWN
 CHECKED

01 ADDENDUM #1
 00 BID SET
 REV.

DESCRIPTION

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

SHEET No. 11 OF 136

SCALE PLAN: 1"=80'
 DRAWING No. 2017004-11



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: 6TH STREET

ITB No. 4477 FILE No. 2017-004



S:\Project Management\Drafting\autocad\2017004\Plan Production\2017004 - 6th Street.dwg Dwg Created: 7-Nov-16 - a2 standard bw.stb - Plot Date: 27-Mar-17

QUANTITIES			
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	Ft	46.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	61.000
2057011	Grading, Driveway Approach	Syd	-34.000
2057011	Grading, Sidewalk	Syd	34.000
2057011	Machine Grading, Special	Syd	2,232.000
2057021	Subgrade Undercutting, Type IIA	Cyd	224.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	4.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	40.000
4037050	Dr Structure Cover, Special	Ea	1.000
4037050	Dr Structure Cover, Type B, Modified	Ea	1.000
4037050	Dr Structure Cover, Type K, Modified	Ea	2.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	3.000
4037050	Dr Structure, Double Inlet	Ea	2.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	2.000
5010003	Cold Milling HMA Surface	Ton	505.000
5010703	HMA, LVSP	Ton	505.000
5017031	HMA, Wedging, 36A	Ton	8.000
6027021	Flowable Fill	Cyd	1.704
6030005	Cement	Ton	1.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	-34.000
8027001	Curb and Gutter, Conc	Ft	46.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	300.000
8117001	Pav Mrkg, Wet Retrefec, Thermopl, 6 inch, Crosswalk	Ft	70.000
8117001	Pav Mrkg, Wet Retrefec, Thermopl, 24 inch, Stop Bar	Ft	15.000
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	26.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	26.000
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	19.000
8167011	Slope Restoration	Syd	17.000
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
C HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc, 6 inch, Modified • Driveway, Nonreinf Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
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RRRA	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
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TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
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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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
8.0	D3-1	Street Name Sign	4.000	32.000
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

CONSTRUCTION METHOD AND SEQUENCING

IN ACCORDANCE WITH THE SCHEDULE OF STREETS WORK ON THIS STREET IS TO OCCUR CONCURRENTLY WITH THAT PROPOSED FOR 3RD STREET. WORK ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE 4.0 INCHES OF EXISTING HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
- PERFORM ALL JOINT AND CRACK CLEANOUT, HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS DIRECTED.
- CLEAN PAVEMENT AS REQUIRED, AND PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2.0 INCH TOP COURSE HMA MIX (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- 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 THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

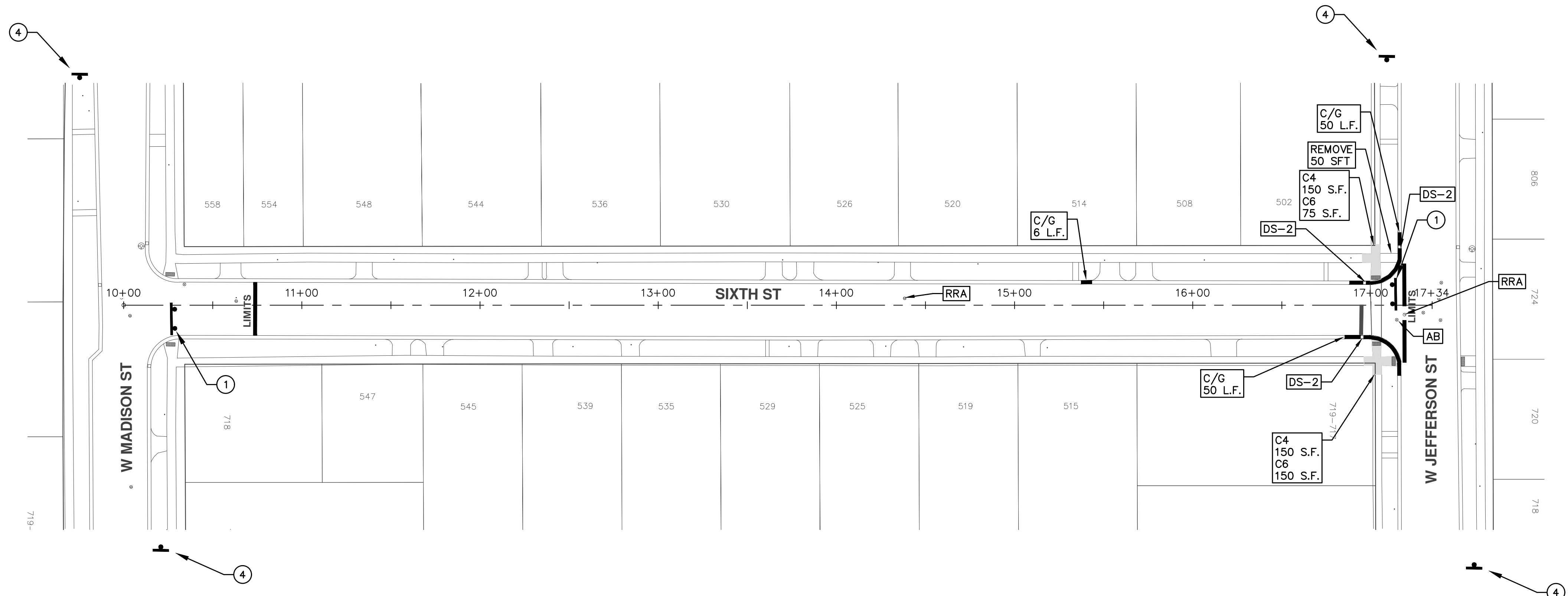
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THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.



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
ANNUAL STREET RESURFACING - 2017
6TH STREET
DRAWING No. 2017004-12
SHEET No. 12 OF 136



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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=80'
 DRAWING No. 2017004-13

ANNUAL STREET RESURFACING - 2017
 6TH STREET
 STA. 10+00 - STA. 17+34

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD

Know what's below.
Call Before you dig.



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: ALLEY - S SEVENTH ST TO DEAD END

ITB No. 4477 FILE No. 2017-004

CONSTRUCTION METHOD AND SEQUENCING

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

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE 4.0 INCHES OF EXISTING HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
- PERFORM ALL JOINT AND CRACK CLEANOUT, HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS DIRECTED.
- CLEAN PAVEMENT AS REQUIRED, AND PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2.0 INCH TOP COURSE HMA MIX (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- 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 THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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QUANTITIES			
Item Code	Item Description	Units	Quantity
2057011	Machine Grading, Special	Syd	615.000
2057021	Subgrade Undercutting, Type IIA	Cyd	62.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	1.000
5010003	Cold Milling HMA Surface	Ton	139.000
5010703	HMA, LVSP	Ton	139.000
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	15.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	38.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	38.500

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

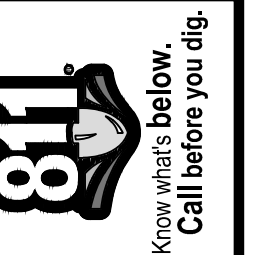
LEGEND	
SYMBOL	DESCRIPTION
⊕	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
+Q+	FIRE HYDRANT
⊕	MICHCON GAS CO. VALVE BOX/WELL
⊙	AMERITECH TELEPHONE VAULT
⊕	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
▣	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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
2.0	D3-1	Street Name Sign	4.000	8.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
0.0	W20-3	Road Closed Ahead Sign	9.000	0.000
TOTAL				38.500

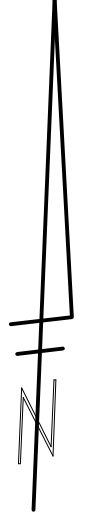
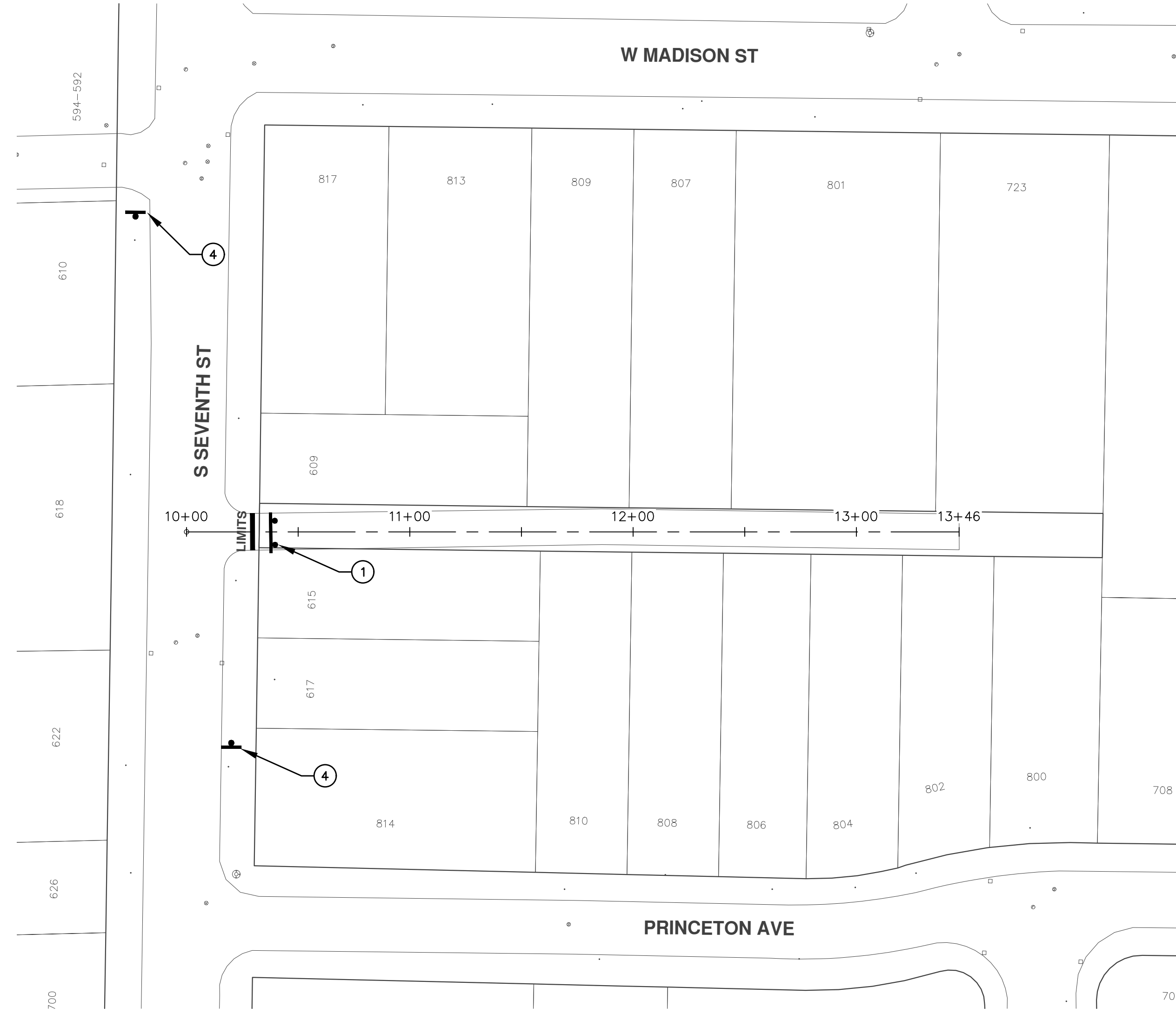


PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

S:\Project Management\Drafting\autocad\2017004\Plan Production\2017004 - Alley.dwg Dwg Created: 7-Nov-16 - a2 standard bw.stb - Plot Date: 27-Mar-17



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
ALLEY - S SEVENTH ST TO DEAD END
DRAWING No. 2017004-14



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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=40'
 DRAWING No. 2017004-15

ANNUAL STREET RESURFACING - 2017
 ALLEY - S SEVENTH ST TO DEAD END
 STA. 10+00 - STA. 13+46



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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: ARELLA BOULEVARD

ITB No. 4477 FILE No. 2017-004



S:\Project Management\Drafting\autocad\2017004\Plan Production\2017004 - Arella Boulevard.dwg Dwg Created: 7-Nov-16 - _c2 standard bw.stb - Plot Date: 27-Mar-17

QUANTITIES			
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	Ft	460.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	110.000
2057011	Grading, Driveway Approach	Syd	110.000
2057011	Machine Grading, Special	Syd	2,201.000
2057021	Subgrade Undercutting, Type IIA	Cyd	221.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	6.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	40.000
4030200	Dr Structure, 24 inch dia	Ea	4.000
4037050	Dr Structure Cover, Type B, Modified	Ea	3.000
4037050	Dr Structure Cover, Type K, Modified	Ea	4.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	7.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	3.000
5010003	Cold Milling HMA Surface	Ton	498.000
5010005	HMA Surface, Rem	Syd	144.660
5010703	HMA, LVSP	Ton	498.000
6027021	Flowable Fill	Cyd	17.037
6030005	Cement	Ton	6.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	110.000
8027001	Curb and Gutter, Conc	Ft	200.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	316.000
8117001	Pav Mirkg, Wet Retreflec, Thermopl, 6 inch, Crosswalk	Ft	60.000
8117001	Pav Mirkg, Wet Retreflec, Thermopl, 24 inch, Stop Bar	Ft	30.000
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	77.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	77.000
8127050	No Parking Sign	Ea	22.000
8167011	Slope Restoration	Syd	169.000
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
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

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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sqft)	Total Area
4.0	D3-1	Street Name Sign	4.000	16.000
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
0.0	W20-3	Road Closed Ahead Sign	9.000	0.000
TOTAL				77.000

CONSTRUCTION METHOD AND SEQUENCING

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

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE 4.0 INCHES OF EXISTING HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
- PERFORM ALL JOINT AND CRACK CLEANOUT, HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS DIRECTED.
- CLEAN PAVEMENT AS REQUIRED, AND PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2.0 INCH TOP COURSE HMA MIX (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- 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 THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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



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

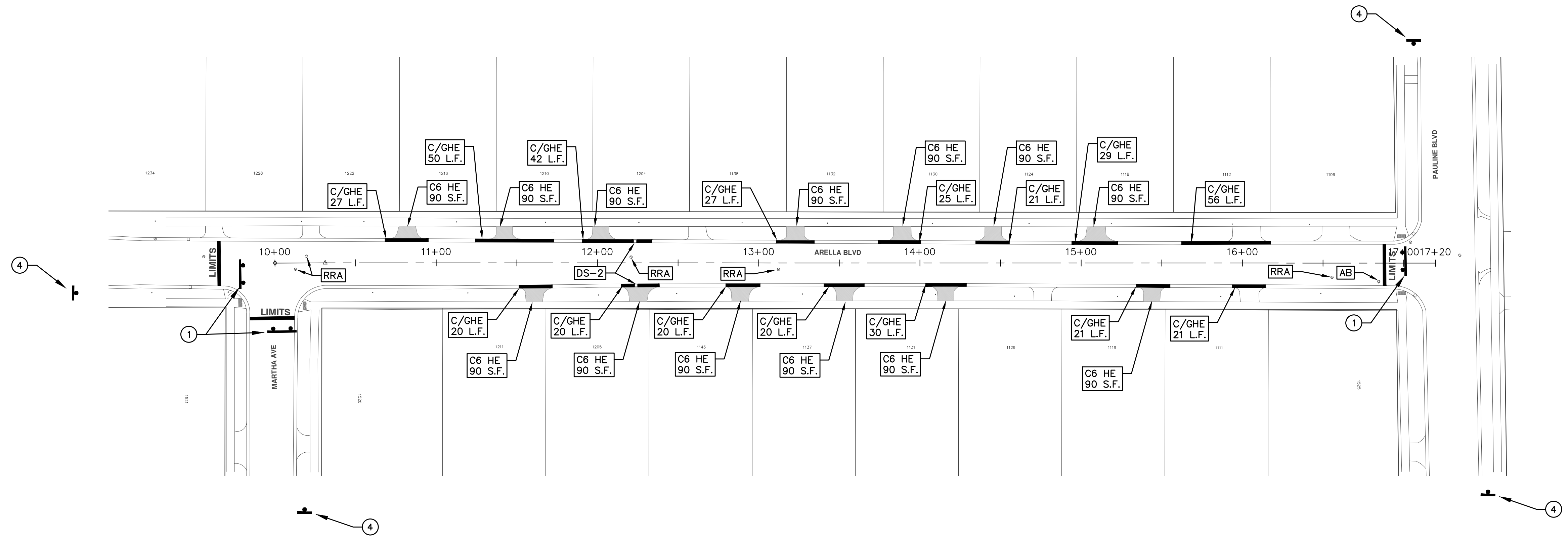
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

ANNUAL STREET RESURFACING - 2017

ARELLA BOULEVARD

DRAWING No. 2017004-16

SHEET No. 16 OF 136



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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 ANNUAL STREET RESURFACING - 2017
 ARELLA BOULEVARD
 STA. 10+00 - STA. 17+20

SCALE PLAN: 1"=80'
 DRAWING No. 2017004-17

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

CITY OF ANN ARBOR
 PUBLIC SERVICE
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-0867
 ANN ARBOR 734.794.4410
 www.a2gov.org

REV.	DATE	DESCRIPTION
01	03-24-17	AG.GS.RG
00	03-08-17	AG.GS.RG
		DRAWN
		CHECKED



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: HIGH ORCHARD DRIVE

ITB No. 4477 FILE No. 2017-004

QUANTITIES			
Item Code	Item Description	Units	Quantity
2057011	_Machine Grading, Special	Syd	1,075.000
2057021	_Subgrade Undercutting, Type IIA	Cyd	108.000
5010003	Cold Milling HMA Surface	Ton	243.000
5010703	HMA, LVSP	Ton	243.000
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	15.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	59.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	59.000
8127050	_No Parking Sign	Ea	11.000

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

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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
4.0	D3-1	Street Name Sign	4.000	16.000
2.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	25.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
		TOTAL		59.000

CONSTRUCTION METHOD AND SEQUENCING

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

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE 4.0 INCHES OF EXISTING HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
- PERFORM ALL JOINT AND CRACK CLEANOUT, HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS DIRECTED.
- CLEAN PAVEMENT AS REQUIRED, AND PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2.0 INCH TOP COURSE HMA MIX (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- 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 THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

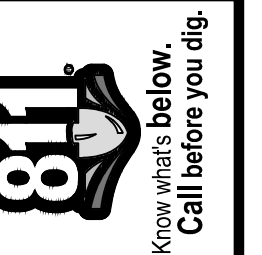
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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



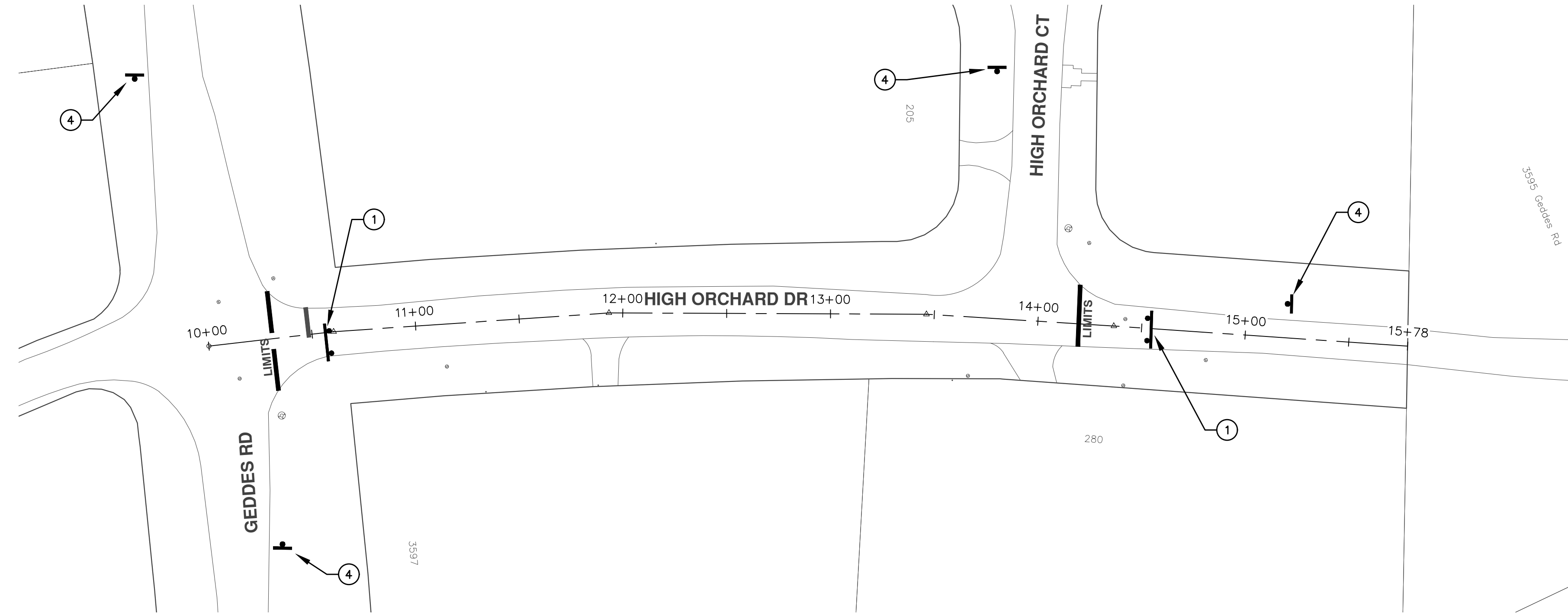
PROJECT MANAGEMENT SERVICES UNIT

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

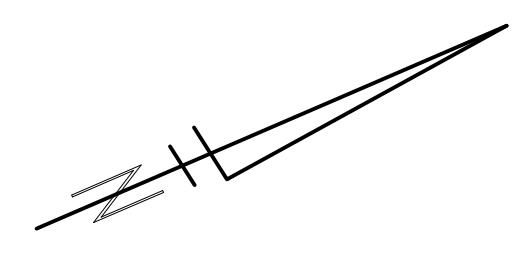


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
HIGH ORCHARD DRIVE
DRAWING No. 2017004-18

S:\Project Management\Drafting\autocad\2017004\Plan Production\2017004 - High Orchard Drive.dwg Dwg Created: 7-Nov-16 - _g2 standard bw.stb - Plot Date: 27-Mar-17



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



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 HIGH ORCHARD DRIVE
 STA. 10+00 - STA. 15+78

SCALE PLAN: 1"=80'
 DRAWING No. 2017004-19

CITY OF ANN ARBOR
 PUBLIC SERVICE
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-6647
 ANN ARBOR 734.754.4410
 www.a2gov.org

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD





CITY OF ANN ARBOR PROJECT MANAGEMENT



PROJECT LOCATION: HIGH ORCHARD COURT

ITB No. 4477 FILE No. 2017-004

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QUANTITIES			
Item Code	Item Description	Units	Quantity
2057011	_Machine Grading, Special	Syd	1,315.000
2057021	_Subgrade Undercutting, Type IIA	Cyd	45.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	1.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	1.000
5010003	Cold Milling HMA Surface	Ton	298.000
5010703	HMA, LVSP	Ton	298.000
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	11.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	11.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	38.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	38.500
8127050	_No Parking Sign	Ea	7.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Grading, Sidewalk Ramp • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc, 6 inch, Modified • Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
CG	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
CGHE	• _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

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
[Pattern]	REMOVE AND REPLACE CONC. SIDEWALK
[Pattern]	PLACE CONCRETE SIDEWALK
[Pattern]	REMOVE & REPLACE CONC. CURB & GUTTER
[Pattern]	CONSTRUCTION LIMITS
[Pattern]	6" WRAPPED UNDERDRAIN
[Pattern]	REMOVE CONCRETE SIDEWALK
[Pattern]	SUBGRADE UNDERCUT

CONSTRUCTION METHOD AND SEQUENCING

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

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE 4.0 INCHES OF EXISTING HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
- PERFORM ALL JOINT AND CRACK CLEANOUT, HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS DIRECTED.
- CLEAN PAVEMENT AS REQUIRED, AND PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2.0 INCH TOP COURSE HMA MIX (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN UP AND FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sqft)	Total Area
2.0	D3-1	Street Name Sign	4.000	8.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
TOTAL				38.500

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 THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

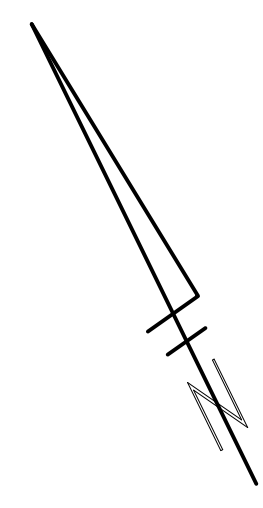
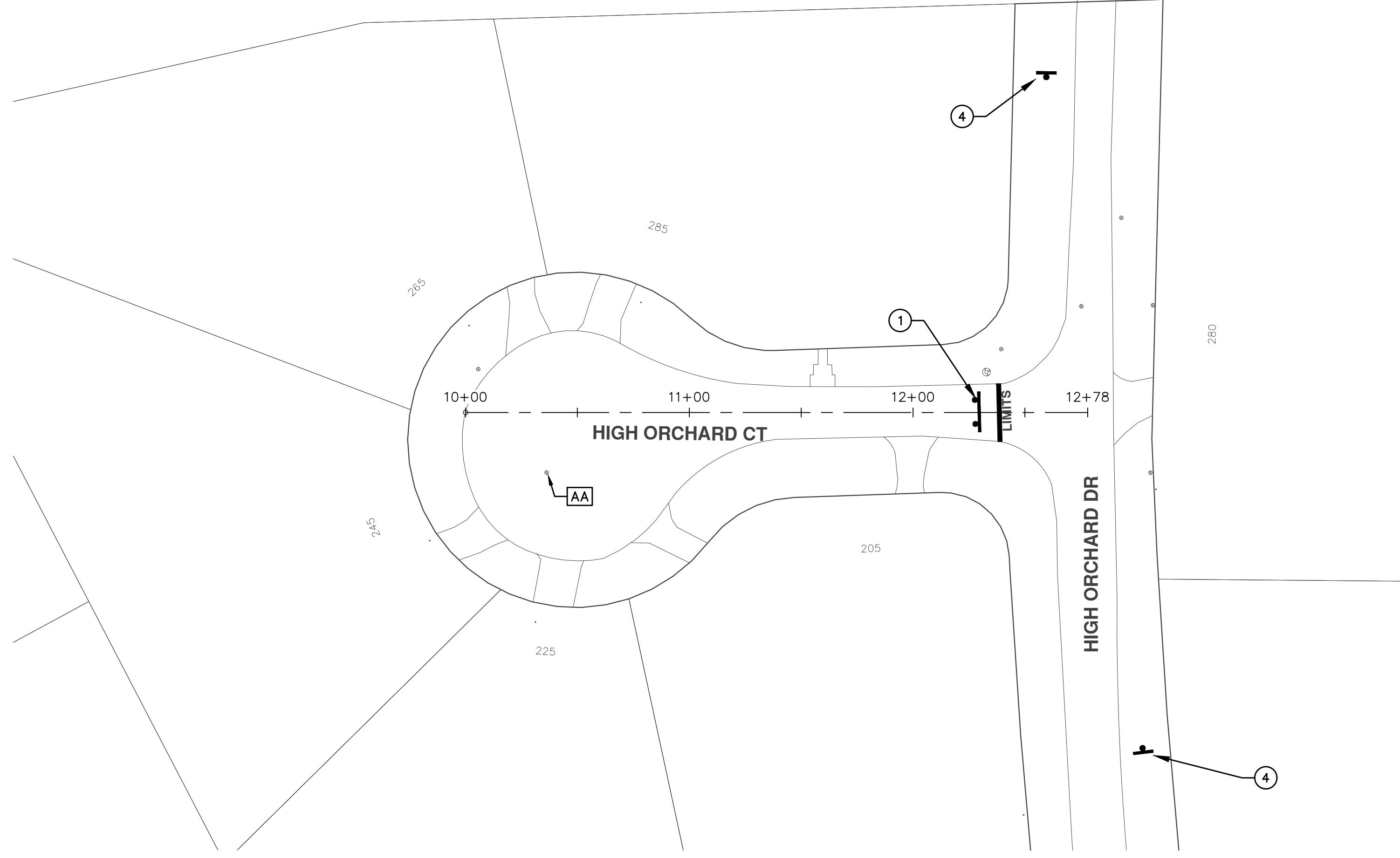
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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



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

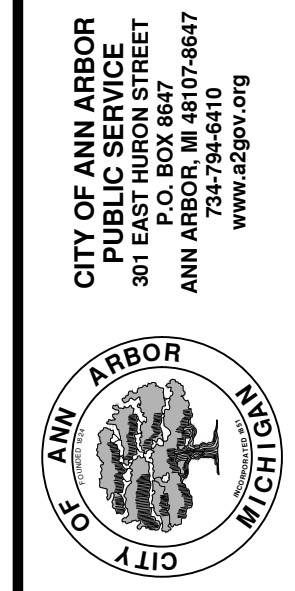
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
HIGH ORCHARD COURT
DRAWING No. 2017004-20



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①		R11-4 60x30
②		R11-2 60x30
③	 HIGH ORCHARD CT.	W20-3 36"x36" D3-1
④	 HIGH ORCHARD CT.	W20-1 36"x36" D3-1

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=80'
 DRAWING No. 2017004-21

ANNUAL STREET RESURFACING - 2017
 HIGH ORCHARD COURT
 STA. 10+00 - STA. 12+78



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD





CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: ISLAND DRIVE - CANAL ST TO WALL ST

ITB No. 4477 FILE No. 2017-004

CONSTRUCTION METHOD AND SEQUENCING

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

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE 4.0 INCHES OF EXISTING HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
- PERFORM ALL JOINT AND CRACK CLEANOUT, HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS DIRECTED.
- CLEAN PAVEMENT AS REQUIRED, AND PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2.0 INCH TOP COURSE HMA MIX (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN UP AND FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.

QUANTITIES			
Item Code	Item Description	Units	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	25.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	125.000
2047050	_Parking Blocks, Rem	Ea	20.000
2047050	_Landscape Boulder, Rem and Salvage	Ea	60.000
2057011	_Grading, Sidewalk	Syd	23.000
2057011	_Grading, Sidewalk Ramp	Syd	20.000
2057011	_Machine Grading, Special	Syd	578.000
2057011	_Machine Grading, Parking Area & Driveway Entrance	Syd	500.000
2057021	_Subgrade Undercutting, Type IIA	Cyd	58.000
5010003	Cold Milling HMA Surface	Ton	131.000
5010005	HMA Surface, Rem	Syd	44.440
5010703	HMA, LVSP	Ton	131.000
8060040	Shared use Path, HMA	Ton	42.000
8027021	_Flowable Fill	Cyd	0.926
8027001	_Curb and Gutter, Conc	Ft	225.000
8037001	_Detectable Warning Surface, Modified	Ft	10.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	175.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	200.000
8117001	_Pat Mrgk, Wet Retreflc, Thermopl, 6 inch, Crosswalk	Ft	45.000
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	25.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	25.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	59.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	59.000
8127050	_No Parking Sign	Ea	7.000
8167011	_Slope Restoration	Syd	424.000

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

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

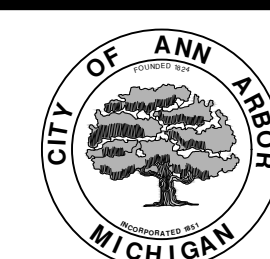
QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sqft)	Total Area
4.0	D3-1	Street Name Sign	4.000	16.000
2.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	25.000
1.0	W20-1	Road Work Ahead Sign	9.000	9.000
1.0	W20-3	Road Closed Ahead Sign	9.000	9.000
TOTAL				59.000

NOTES:

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

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

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



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

ANNUAL STREET RESURFACING - 2017

ISLAND DRIVE - CANAL ST TO WALL ST

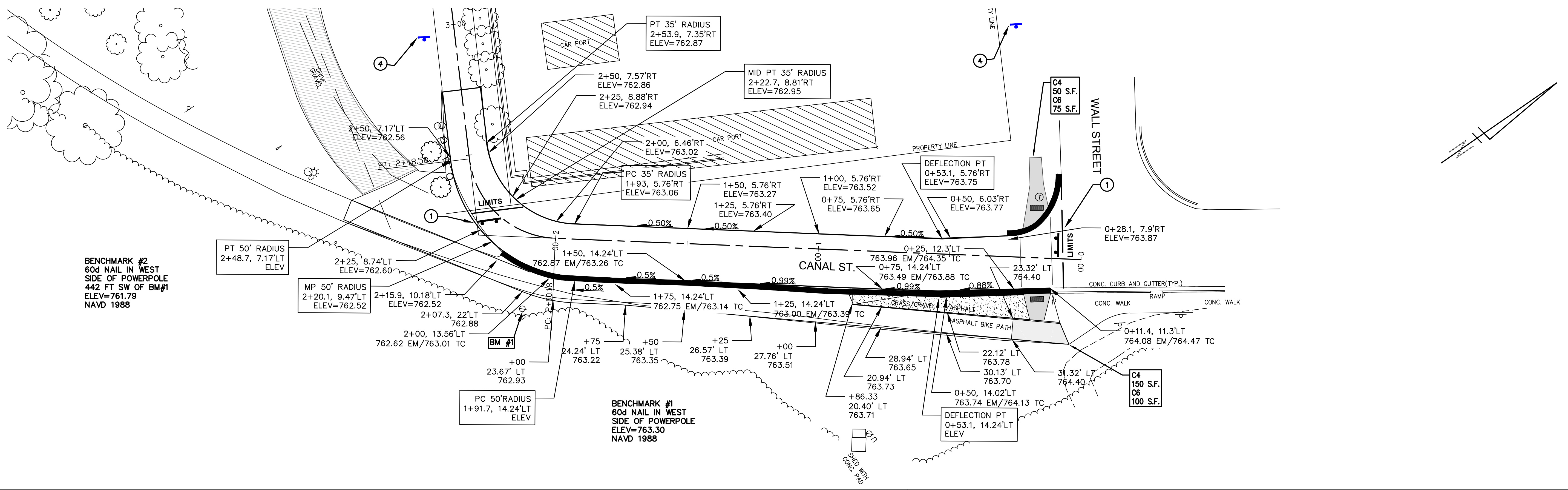
DRAWING No.

2017004-22

SHEET No.

22 OF 136

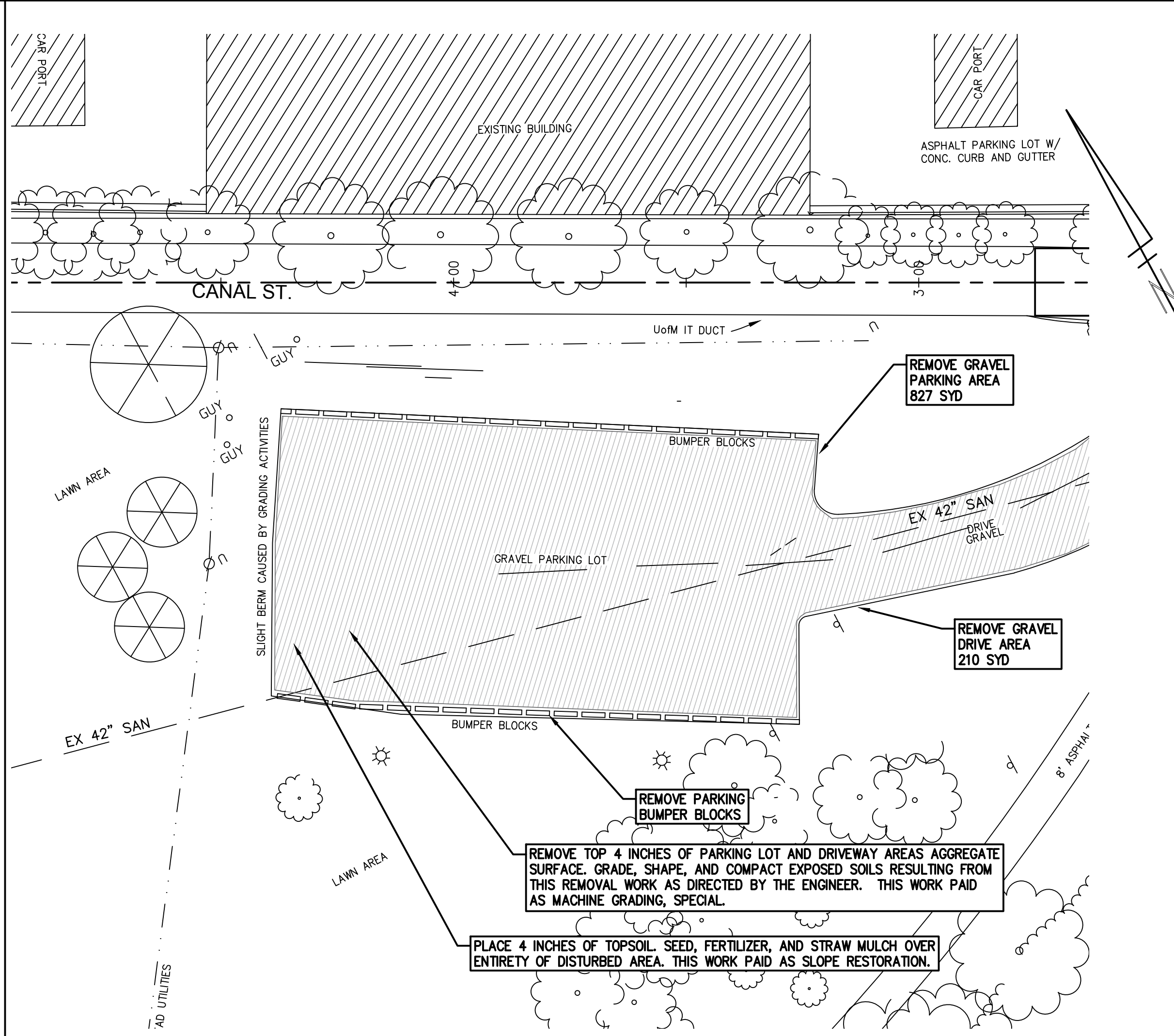
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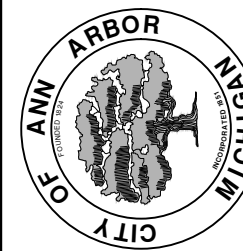
BENCHMARK #2
60d NAIL IN WEST
SIDE OF POWERPOLE
442 FT SW OF BM#1
ELEV=761.79
NAVD 1988

BENCHMARK #1
60d NAIL IN WEST
SIDE OF POWERPOLE
ELEV=763.30
NAVD 1988

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



REV	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GSRG	DAD
00	BID SET	03-08-17	AG.GSRG	DAD



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
ISLAND DRIVE - CANAL ST TO WALL ST

SCALE PLAN: 1" = 20'
DRAWING No. 2017004 - 23



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: WEST DAVIS AVENUE

ITB No. 4477 FILE No. 2017-004

CONSTRUCTION METHOD AND SEQUENCING

IN ACCORDANCE WITH THE SCHEDULE OF STREETS WORK ON THIS STREET IS TO OCCUR CONCURRENTLY WITH THAT PROPOSED FOR 5TH STREET AND WILDER PLACE. WORK ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE 4.0 INCHES OF EXISTING HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
- PERFORM ALL JOINT AND CRACK CLEANOUT, HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS DIRECTED.
- CLEAN PAVEMENT AS REQUIRED, AND PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2.0 INCH TOP COURSE HMA MIX (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- 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 THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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

QUANTITIES			
Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	6.000
2030015	Sewer, Rem, Less than 24 inch	Ft	60.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	435.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	417.000
2057011	Grading, Driveway Approach	Syd	7.000
2057011	Grading, Sidewalk	Syd	207.000
2057011	Grading, Sidewalk Ramp	Syd	148.000
2057011	Machine Grading, Special	Syd	4,321.000
2057021	Subgrade Undercutting, Type IIA	Cyd	372.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	13.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	60.000
4030200	Dr Structure, 24 inch dia	Ea	6.000
4037050	Dr Structure Cover, Type B, Modified	Ea	9.000
4037050	Dr Structure Cover, Type D, Modified	Ea	1.000
4030050	Dr Structure Cover, Type K, Modified	Ea	5.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	16.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	13.000
5010003	Cold Milling HMA Surface	Ton	977.000
5010005	HMA Surface, Rem	Syd	153.550
5010061	HMA, Approach	Ton	68.000
5010703	HMA, LVSP	Ton	977.000
6027021	Flowable Fill	Cyd	16.111
6030005	Cement	Ton	1.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	7.000
8027001	Curb and Gutter, Conc	Ft	447.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	40.000
8037001	Detectable Warning Surface, Modified	Ft	110.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1,325.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	1,850.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	7.000
8117001	Pav Mrkg, Wet Retrflec, Thermopl, 6 inch, Crosswalk	Ft	660.000
8117001	Pav Mrkg, Wet Retrflec, Thermopl, 24 inch, Stop Bar	Ft	135.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	8.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	8.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	60.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	60.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	230.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	230.000
8127050	No Parking Sign	Ea	52.000
8167011	Slope Restoration	Syd	160.000
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 • 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

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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sqft)	Total Area
10.0	D3-1	Street Name Sign	4.000	40.000
8.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	100.000
9.0	W20-1	Road Work Ahead Sign	9.000	81.000
1.0	W20-3	Road Closed Ahead Sign	9.000	9.000
TOTAL				230.000

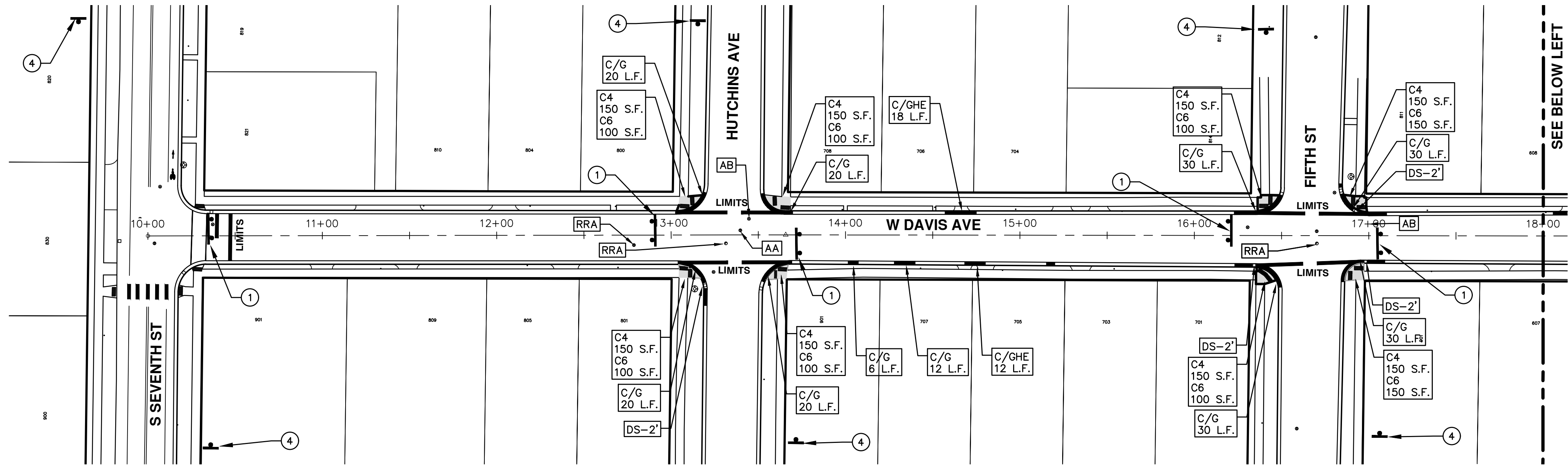


PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

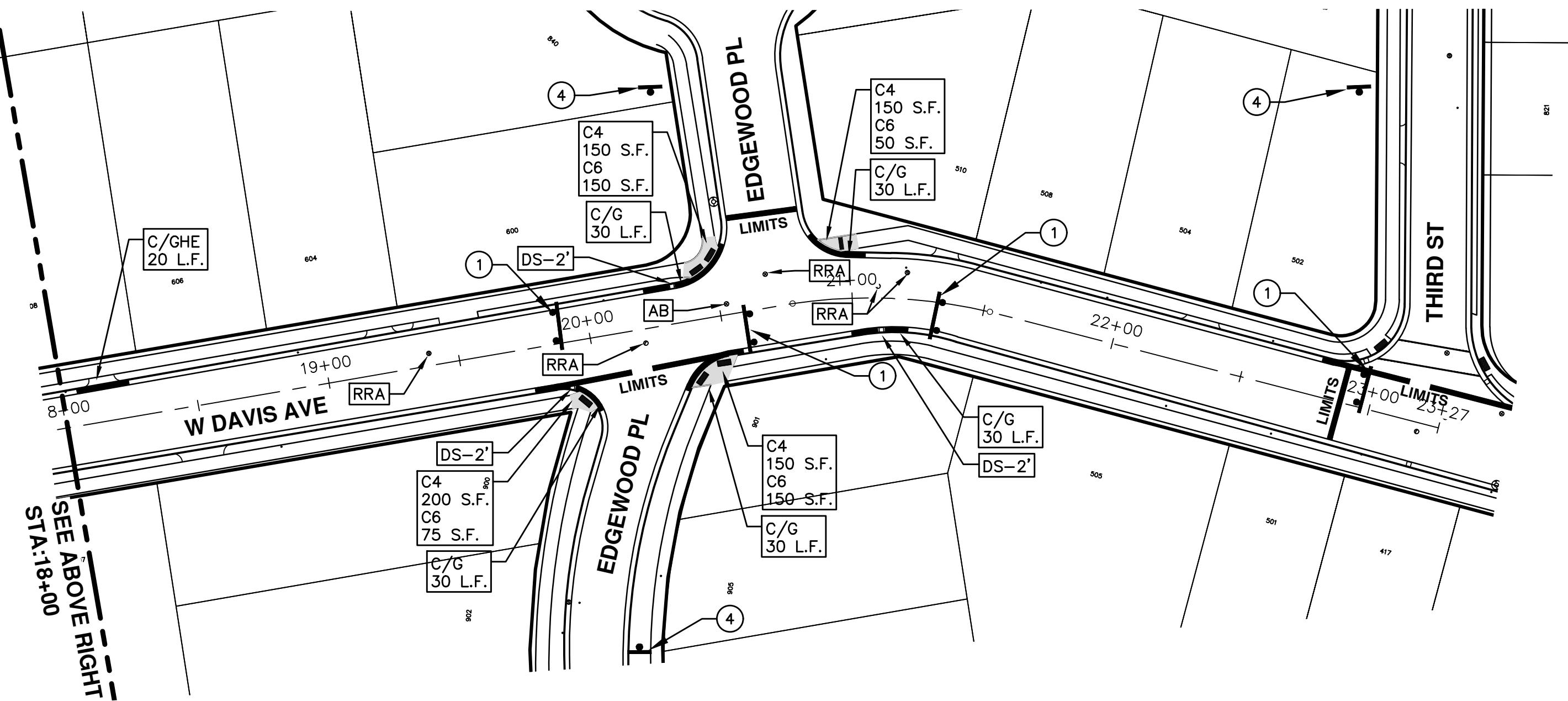
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
WEST DAVIS AVENUE
DRAWING No. 2017004-24

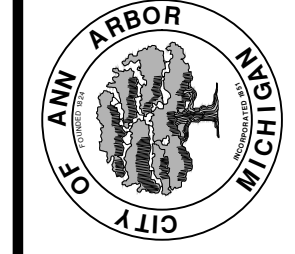


SEE BELOW LEFT
STA:18+00



SEE ABOVE RIGHT
STA:18+00

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



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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD





CITY OF ANN ARBOR PROJECT MANAGEMENT



PROJECT LOCATION: WEST JEFFERSON STREET

ITB No. 4477 FILE No. 2017-004

CONSTRUCTION METHOD AND SEQUENCING

IN ACCORDANCE WITH THE SCHEDULE OF STREETS WORK ON THIS STREET IS TO OCCUR CONCURRENTLY WITH THAT PROPOSED FOR 4TH STREET AND 5TH STREET. WORK ON EACH LOCATION MAY OCCUR SIMULTANEOUSLY WITH EXCEPTION TO COLDMILLING AND LEVELING COURSE PAVING ACTIVITIES, WHICH TOGETHER SHALL BE COMPLETED SEQUENTIALLY STREET BY STREET. WORK ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE 4.0 INCHES OF EXISTING HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
- PERFORM ALL JOINT AND CRACK CLEANOUT, HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS DIRECTED.
- CLEAN PAVEMENT AS REQUIRED, AND PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2.0 INCH TOP COURSE HMA MIX (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN UP AND FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.

QUANTITIES			
Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	21.000
2030015	Sewer, Rem, Less than 24 inch	Ft	210.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1,338.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	126.000
2057011	Grading, Driveway Approach	Syd	51.000
2057011	Grading, Sidewalk	Syd	203.000
2057011	Grading, Sidewalk Ramp	Syd	201.000
2057011	Machine Grading, Special	Syd	9,611.000
2057021	Subgrade Undercutting, Type IIA	Cyd	962.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	37.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	210.000
4030200	Dr Structure, 24 inch dia	Ea	21.000
4030210	Dr Structure, 48 inch dia	Ea	12.000
4037050	Dr Structure Cover, Type B, Modified	Ea	37.000
4030050	Dr Structure Cover, Type K, Modified	Ea	21.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	54.000
4037050	Dr Structure, Adj, Case 2, Modified	Ea	12.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	38.000
5010003	Cold Milling HMA Surface	Ton	2,173.000
5010005	HMA Surface, Rem	Syd	374.660
5010703	HMA, LVSP	Ton	2,173.000
6027021	Flowable Fill	Cyd	49.556
6030005	Cement	Ton	3.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	51.000
8027001	Curb and Gutter, Conc	Ft	1,269.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	119.000
8037001	Detectable Warning Surface, Modified	Ft	140.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1,805.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	1,825.000
8117001	Pav Mrkg, Wet Retrflec, Thermopl, 6 inch, Crosswalk	Ft	935.000
8117001	Pav Mrkg, Wet Retrflec, Thermopl, 12 inch, Crosswalk	Ft	320.000
8117001	Pav Mrkg, Wet Retrflec, Thermopl, 24 inch, Stop Bar	Ft	160.000
8117050	Pav Mrkg, Wet Retrflec, Thermopl, School	Ea	2.000
8117050	Pav Mrkg, Wet Retrflec, Thermopl, Railroad Sym	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Fum	Ea	14.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	14.000
8120260	Plastic Drum, High Intensity, Lighted, Fum	Ea	105.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	105.000
8120350	Sign, Type B, Temp, Prismatic, Fum	Sft	383.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	383.000
8127050	No Parking Sign	Ea	84.000
8167011	Slope Restoration	Syd	824.280
8217050	Monument Box Adjust	Ea	5.000
8230431	Gate Box, Adj, Case 1	Ea	9.000

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

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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
16.0	D3-1	Street Name Sign	4.000	64.000
14.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	175.000
16.0	W20-1	Road Work Ahead Sign	9.000	144.000
TOTAL				383.000

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 BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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



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\2017004\Plan Production\2017004 - West Jefferson Street.dwg Dwg Created: 7-Nov-16 - a2 standard bw.stb - Plot Date: 27-Mar-17

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

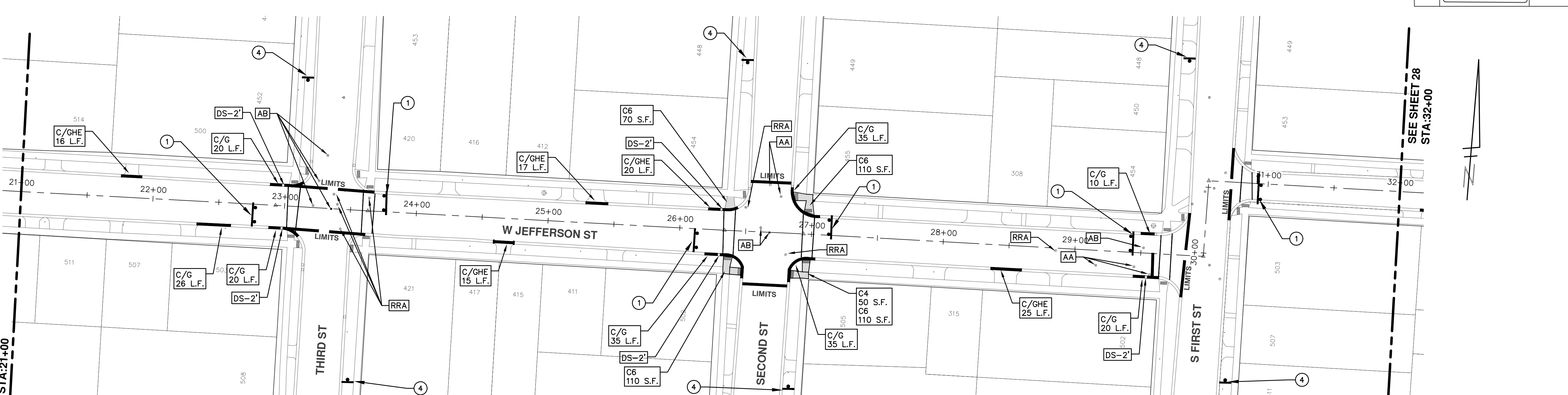
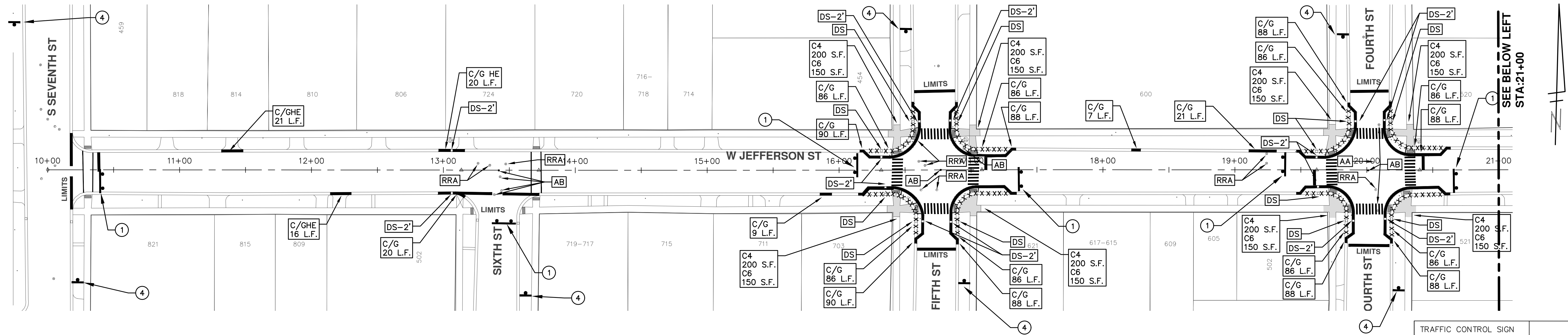
ANNUAL STREET RESURFACING - 2017

WEST JEFFERSON STREET

DRAWING No. 2017004-26

SHEET No. 26 OF 136


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


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
WEST JEFFERSON STREET
STA. 10+00 - STA. 32+00

SHEET No. 27 OF 136









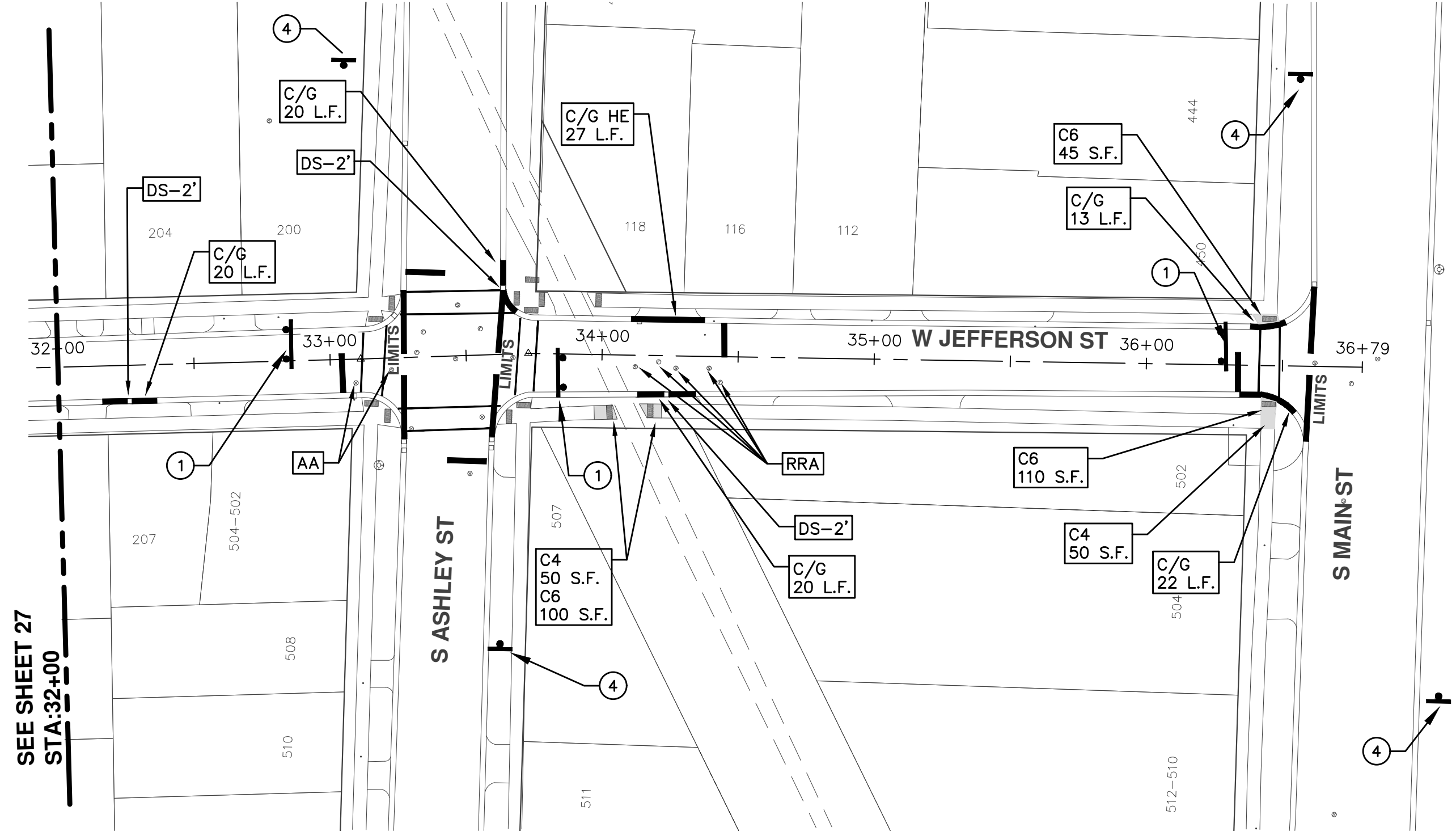
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1667
www.a2gov.org

REV.	DATE	DRAWN	CHECKED	DESCRIPTION
01	03-24-17	AG.GSRG	DAD	ADDENDUM #1
00	03-08-17	AG.GSRG	DAD	BID SET



Know what's below.
Call before you dig.

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



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: WILDER PLACE

ITB No. 4477 FILE No. 2017-004

CONSTRUCTION METHOD AND SEQUENCING

IN ACCORDANCE WITH THE SCHEDULE OF STREETS WORK ON THIS STREET IS TO OCCUR CONCURRENTLY WITH THAT PROPOSED FOR 5TH STREET AND WEST DAVIS AVENUE. WORK ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED.
- REMOVE 4.0 INCHES OF EXISTING HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
- PERFORM ALL JOINT AND CRACK CLEANOUT, HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS DIRECTED.
- CLEAN PAVEMENT AS REQUIRED, AND PLACE 2.0 INCH LEVELING COURSE HMA MIX (LOCAL STREETS).
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2.0 INCH TOP COURSE HMA MIX (LOCAL STREETS).
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN UP AND FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.

QUANTITIES			
Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	3.000
2030015	Sewer, Rem, Less than 24 inch	Ft	30.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	152.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	13.000
2047050	Exploratory Excavation (0-10' Deep) Tr Det I	Ea	1.000
2057011	Grading, Driveway Approach	Syd	14.000
2057011	Machine Grading, Special	Syd	1,077.000
2057021	Subgrade Undercutting, Type IIA	Cyd	108.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	5.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	30.000
4030200	Dr Structure, 24 inch dia	Ea	3.000
4030050	Dr Structure Cover, Type K, Modified	Ea	3.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	6.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	3.000
5010003	Cold Milling HMA Surface	Ton	244.000
5010005	HMA Surface, Rem	Syd	34.770
5010703	HMA, LVSP	Ton	244.000
5017031	HMA, Wedging, 36A	Ton	8.000
6027021	Flowable Fill	Cyd	5.630
6030005	Cement	Ton	1.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	14.000
8027001	Curb and Gutter, Conc	Ft	96.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	62.000
8117001	Pav Mrkg, Wet Retrflec, Thermopl, 6 inch, Crosswalk	Ft	122.000
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	20.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	20.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	89.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	89.500
8127050	No Parking Sign	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 • Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement
CHE	• 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
CG	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
CGHE	• 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

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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
4.0	D3-1	Street Name Sign	4.000	16.000
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
TOTAL				89.500

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 THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

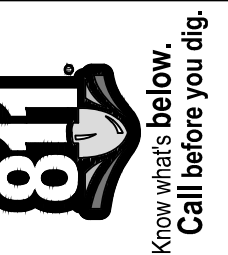
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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

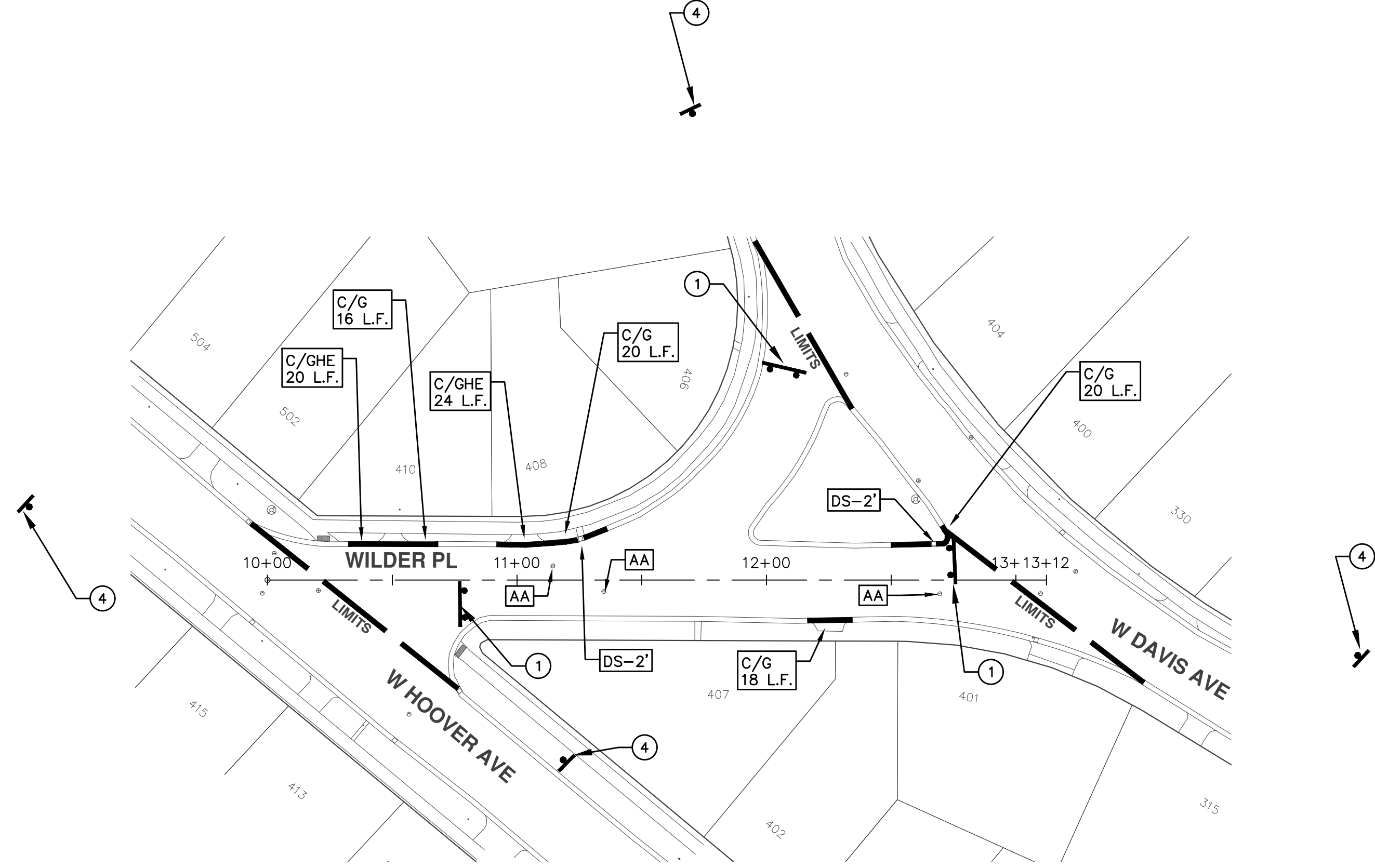


PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

S:\Project Management\Drafting\autocad\2017004\Plan Production\2017004 - Wilder Place.dwg Dwg Created: 7-Nov-16 - _o2 standard bw.stb - Plot Date: 27-Mar-17



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
WILDER PLACE
DRAWING No. 2017004-29



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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=80'
 DRAWING No. 2017004-30

ANNUAL STREET RESURFACING - 2017
 WILDER PLACE
 STA. 10+00 - STA. 13+12

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD

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



CITY OF ANN ARBOR PROJECT MANAGEMENT PROJECT LOCATION: ARLINGTON BOULEVARD

ITB No. 4477 FILE No. 2017-004

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

QUANTITIES			
Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	23.000
2030015	Sewer, Rem, Less than 24 inch	Ft	230.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1,433.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	105.000
2057011	Grading, Driveway Approach	Syd	21.000
2057011	Grading, Sidewalk Ramp	Syd	106.000
2057011	Machine Grading, Special	Syd	420.000
2057021	Subgrade Undercutting, Type IIA	Cyd	1,077.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	43.000
3020001	Aggregate Base	Ton	115.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	230.000
4030200	Dr Structure, 24 inch dia	Ea	23.000
4037050	Dr Structure Cover, Type B, Modified	Ea	20.000
4037050	Dr Structure Cover, Type D, Modified	Ea	1.000
4037050	Dr Structure Cover, Type E, Modified	Ea	2.000
4037050	Dr Structure Cover, Type K, Modified	Ea	22.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	59.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	34.000
5010003	Cold Milling HMA Surface	Ton	2,786.000
5010005	HMA Surface, Rem	Syd	159.000
5010703	HMA, LVSP	Ton	3,598.000
5010061	HMA, Approach	Ton	292.000
5017031	HMA, Wedging, 36A	Ton	2.000
5017050	HMA Surface, Around Structure Cover, Rem	Ea	44.000
6027021	Flowable Fill	Cyd	53.074
6030005	Cement	Ton	3.000
8017011	Driveway, Nonrein Conc, 8 inch, Modified	Syd	21.000
8027001	Curb and Gutter, Conc	Ft	720.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	544.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sr	948.000
8050020	Curb Vertical, HMA	Ft	169.000
8110332	Rem Raised Pav Marker	Ea	80.000
8110520	Pav Mrkg, Wet Retrefl, Thermopl, 4 inch, White	Ft	5,908.000
8110521	Pav Mrkg, Wet Retrefl, Thermopl, 6 inch, White	Ft	6,151.000
8110524	Pav Mrkg, Wet Retrefl, Thermopl, 4 inch, Yellow	Ft	12,059.000
8117001	Pav Mrkg, Wet Retrefl, Thermopl, 24 inch, Stop Bar	Ft	224.000
8117001	Pav Mrkg, Wet Retrefl, Thermopl, 12 inch, Crosswalk	Ft	160.000
8117050	Pav Mrkg, Wet Retrefl, Thermopl, Only	Ea	2.000
8117050	Pav Mrkg, Wet Retrefl, Thermopl, Lt Turn Arrow Sym	Ea	2.000
8117050	Pav Mrkg, Wet Retrefl, Thermopl, Rt Turn Arrow Sym	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	15.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	15.000
8120140	Lighted Arrow, Type C, Furn	Ea	2.000
8120141	Lighted Arrow, Type C, Oper	Ea	2.000
8120280	Plastic Drum, High Intensity, Lighted, Furn	Ea	240.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	2.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	2.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	2.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sr	845.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sr	845.000
8167011	Slope Restoration	Syd	526.000
8217050	Monument Box Adjust	Ea	1.000
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 • Grading, Sidewalk Ramp • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• Grading, Driveway Approach • Driveway, Nonrein Conc, 8 inch, Modified • Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement
CHE	• Driveway, Nonrein Conc, 6 inch, Modified • Driveway, Nonrein Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet
PT	• Dr Structure, Point
RRA	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

CONSTRUCTION METHOD AND SEQUENCING

WORK ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AS DIRECTED BY THE ENGINEER, AND UTILIZING PART WIDTH TWO (2) PHASE CONSTRUCTION. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER. COMPLETE ITEMS 18 THRU 20 UTILIZING THE M.O.T. PLAN CURRENTLY IN PLACE, LANE CLOSURES, AND FLAG CONTROL OPERATIONS AS DIRECTED BY THE ENGINEER.

PHASE 1A - WASHTENAW AVEUNE TO HEATHER WAY (SOUTH)

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT AREA, INCLUDING GATE AND MONUMENT BOXES.
- REMOVE 4 INCHES OF EXISTING HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
- PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2 INCH LEVELING COURSE HMA MIX (LVSP).

PHASE 1B - WASHTENAW AVEUNE TO HEATHER WAY (SOUTH)

- REPEAT ITEMS 1 THRU 9 IN THE ORDER SHOWN SHOWN ABOVE.

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sqft)	Total Area
15.0	D3-1	Street Name Sign	4.000	60.000
1.0	M4-10L	Detour Arrow (Right) Sign	6.000	6.000
1.0	M4-8a	End Detour Sign	3.000	3.000
3.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	15.000
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
2.0	R5-1	Do Not Enter Sign	6.250	12.500
2.0	R5-1A	Wrong Way Sign	6.000	12.000
15.0	R11-2	Road Closed Sign ("Road Closed")	8.000	120.000
15.0	R11-3a	Road Closed Sign ("Road Closed Local Traffic Only")	12.500	187.500
7.0	R3-1	Movement Prohibition Sign ("No Right Turn")	4.000	28.000
8.0	R3-2	Movement Prohibition Sign ("No Left Turn")	5.000	40.000
6.0	R6-1R	One Way (Left) Sign	3.000	18.000
7.0	R6-1L	One Way (Right) Sign	3.000	21.000
0.0	R6-2R	One Way	3.000	0.000
4.0	SP-1	Special Sign	20.000	80.000
19.0	W20-1	Road Work Ahead Sign	9.000	171.000
2.0	W20-3	Road Closed Ahead	9.000	18.000
2.0	W20-2	Detour Ahead	9.000	18.000
		TOTAL		845.000

- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION.
 - REPEAT ITEMS 1 THRU 3 IN THE ORDER SHOWN SHOWN ABOVE.
 - REMOVE 2 INCHES OF EXISTING HMA SURFACE BY COLDMILLING.
 - PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
 - ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION.
 - CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (LVSP).
 - REPEAT ITEMS 12 THRU 16 IN THE ORDER SHOWN SHOWN ABOVE.
 - CLEAN PAVEMENT AND PLACE ALL HMA APPROACHES AS REQUIRED.
 - CLEAN PAVEMENT AND COMPLETE ALL PERMANENT PAVEMENT MARKINGS.
 - COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEANUP AND FINAL RESTORATION.
 - REMOVE ALL TRAFFIC CONTROL DEVICES AND MISS DIG FLAGS.
- NOTE: PLACEMENT OF THE HMA TOP COURSE SHOWN TO BE COMPLETED IN PHASES 2A AND 2B SHALL EXTEND FROM WASHTENAW AVENUE AND GEDDES AVENUE.

NOTES

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

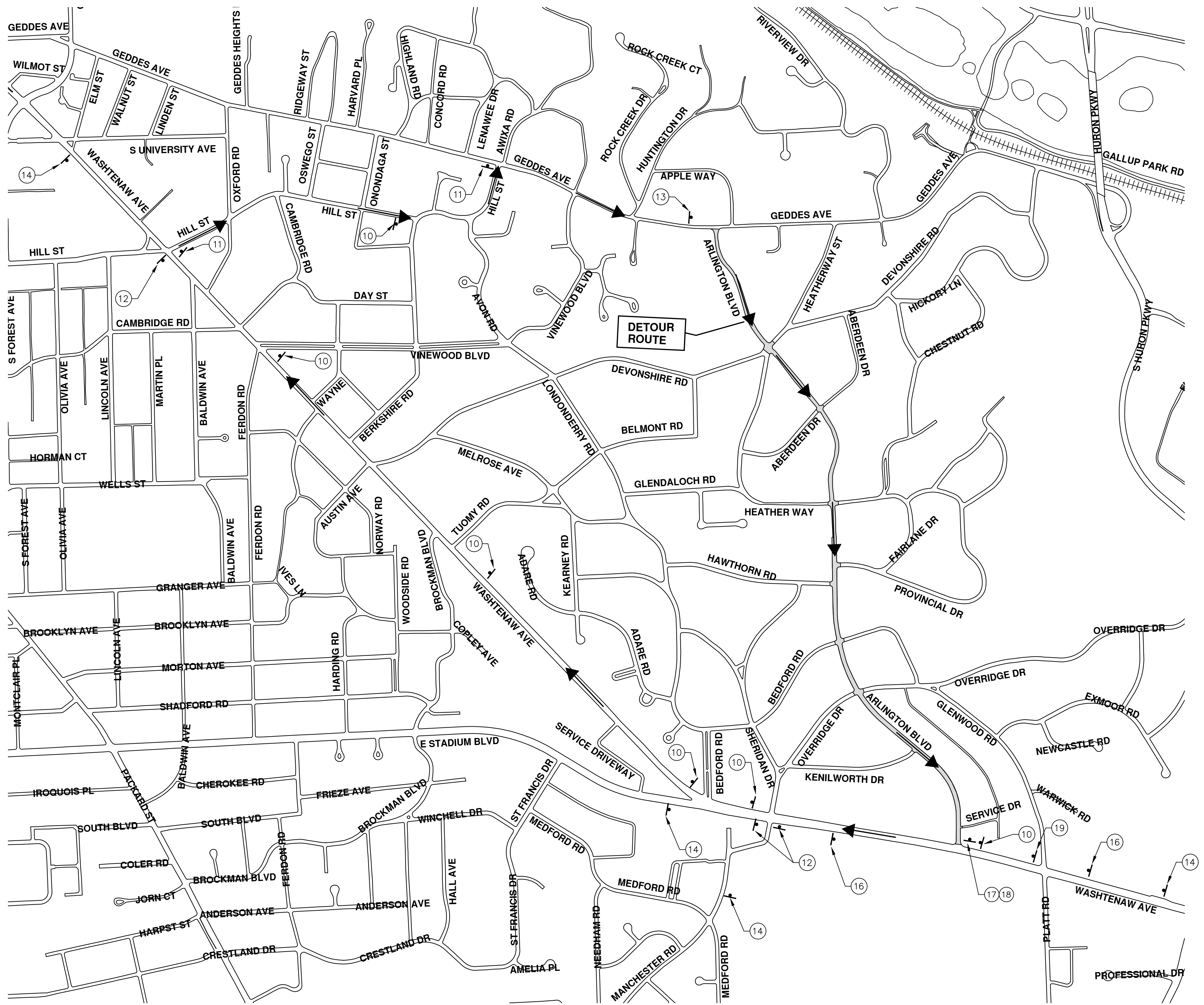
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THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

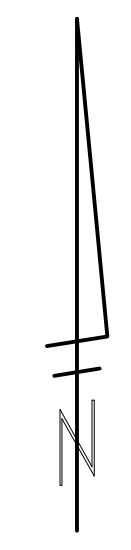


PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org





TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
10	ARLINGTON BLVD DETOUR ↑	D3-1 M4-9S 30x24
11	ARLINGTON BLVD DETOUR →	D3-1 M4-9R 30x24
12	ARLINGTON BLVD DETOUR ←	D3-1 M4-9L 30x24
13	ARLINGTON BLVD DETOUR ENDS	D3-1 M4-8a 24X18
14	SOUTH BOUND ARLINGTON BLVD CLOSED AT WASHTENAW AVE	SPECIAL 48x60
15	SOUTH BOUND ARLINGTON BLVD CLOSED	SPECIAL 48x60
16	DETOUR AHEAD W20-2 36"x36" ARLINGTON BLVD D3-1	W20-2 36"x36"
17	DO NOT ENTER R5-1 30"x30"	R5-1 30"x30"
18	WRONG WAY	R5-1A 42"x30"
19	ROAD CLOSED AHEAD W20-3 36"x36" ARLINGTON BLVD D3-1	W20-3 36"x36"



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
ARLINGTON BOULEVARD
DETOUR

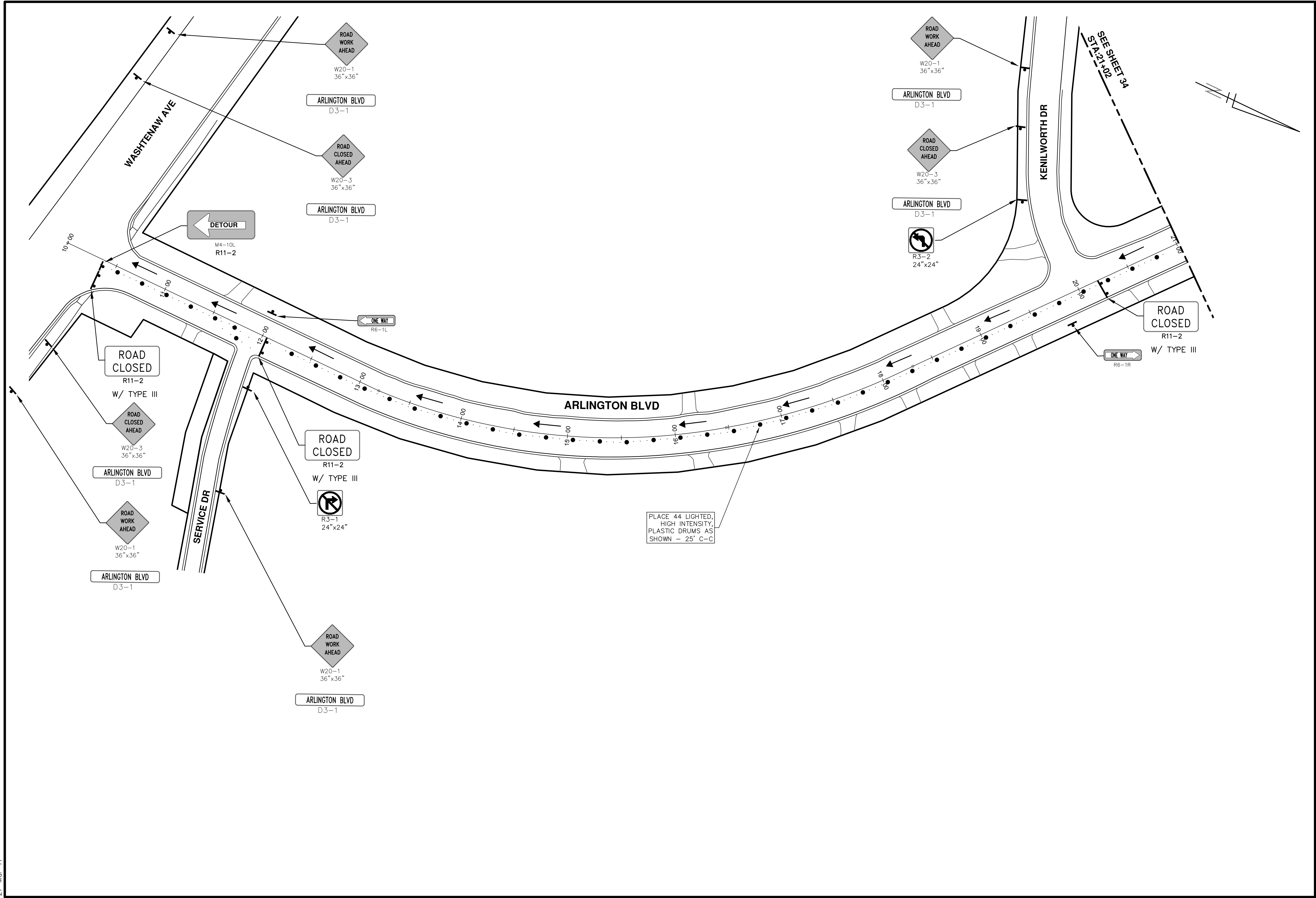
SCALE PLAN: 1" = 500'
DRAWING No. 2017004-32
SHEET No.

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

AG.GS.RG	03-24-17	DAD	CHECKED
AG.GS.RG	03-08-17	DAD	DRAWN
	DATE		REV.
01	ADDENDUM #1	00	BID SET

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

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - Arlington Boulevard TRFC.dwg Dwg Created: 20-Dec-16 - _a2 standard bw.stb - Plot Date: 27-Mar-17



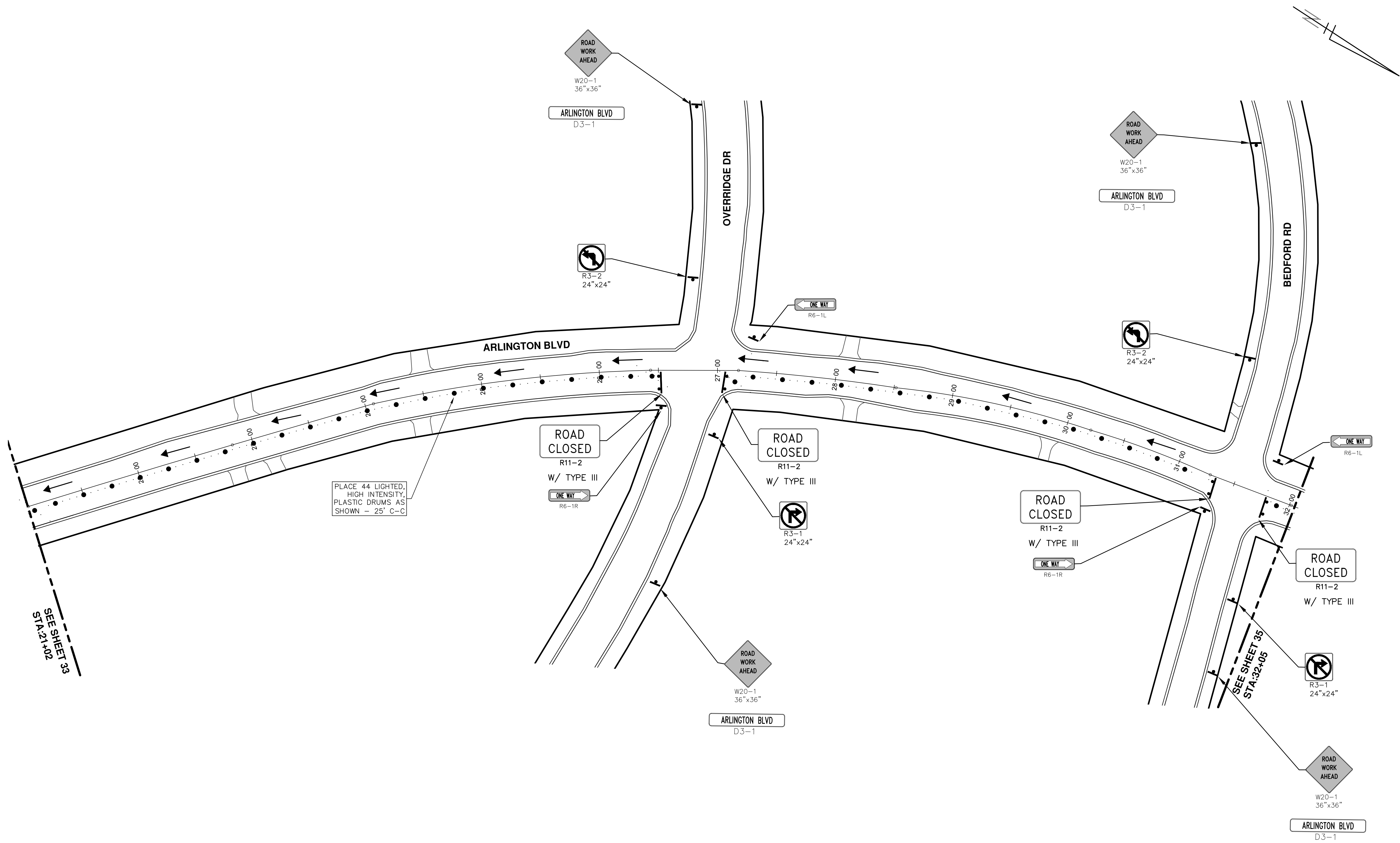
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-3667 www.a2gov.org	ADDENDUM #1 03-24-17 AG.GS.RG
BID SET 03-08-17 AG.GS.RG	DATE 03-08-17 AG.GS.RG
DESCRIPTION TRAFFIC CONTROL	DRAWN DAD
REV.	CHECKED DAD

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 ARLINGTON BOULEVARD
 TRAFFIC CONTROL

SCALE PLAN: 1" = 40'
 DRAWING No. 2017004-33

SHEET No. 33 OF 136

S:\Project_Management\Drafting\autocad\2017004\Plan_Production\Major_Streets\2017004 - Arlington Boulevard TRFC.dwg Dwg Created: 20-Dec-16 - _a2_standard bw.stb - Plot Date: 27-Mar-17



SEE SHEET 33
STA: 21+02

SEE SHEET 35
STA: 32+05

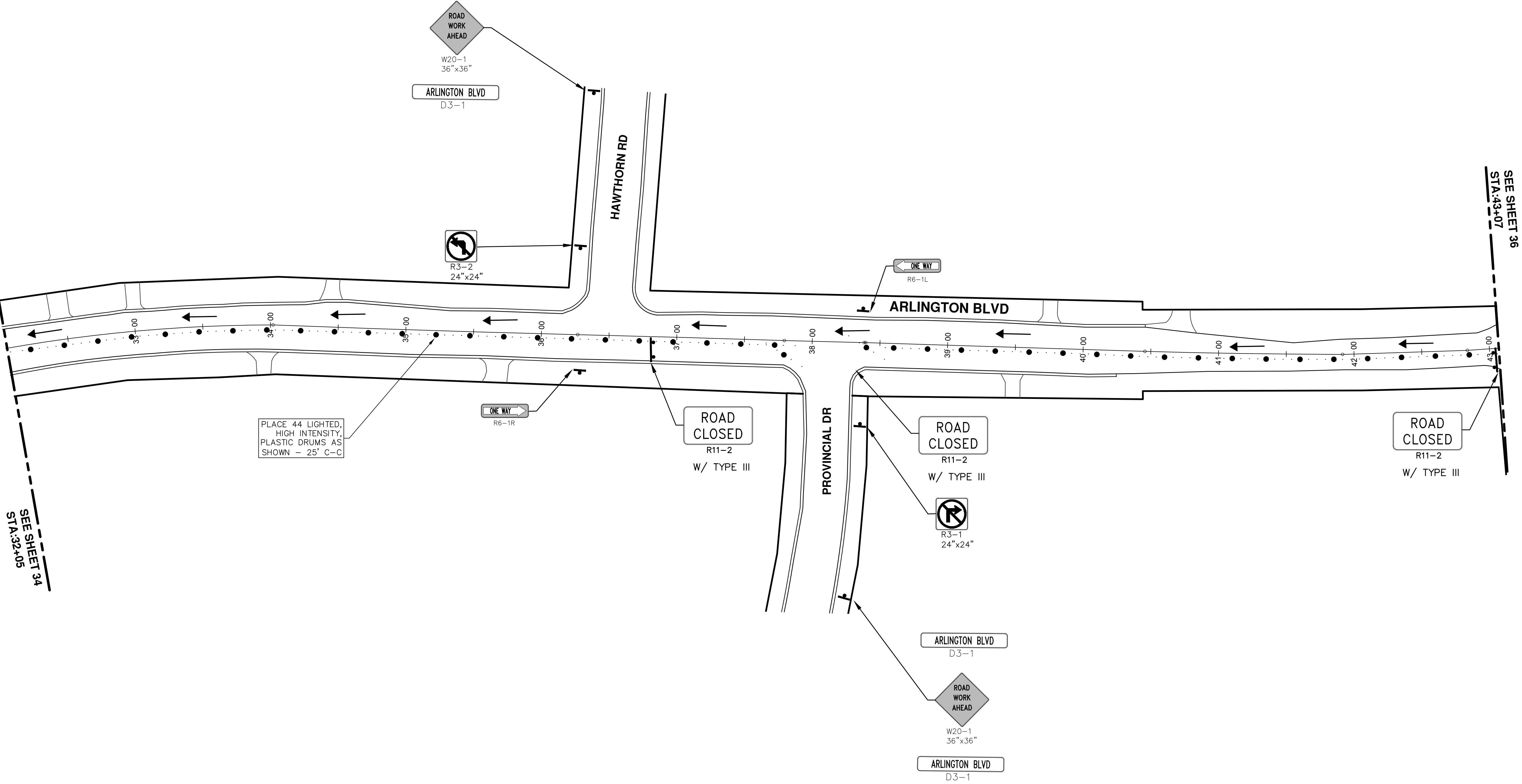
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
ARLINGTON BOULEVARD
TRAFFIC CONTROL

SCALE PLAN: 1" = 40'
DRAWING No. 2017004-34

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

REV.	DATE	DESCRIPTION
01	03-24-17	AG.GS.RG
00	03-08-17	AG.GS.RG

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811
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REV.	DATE	DESCRIPTION
01	03-24-17	AG.GS.RG
00	03-08-17	AG.GS.RG
		DRAWN
		CHECKED

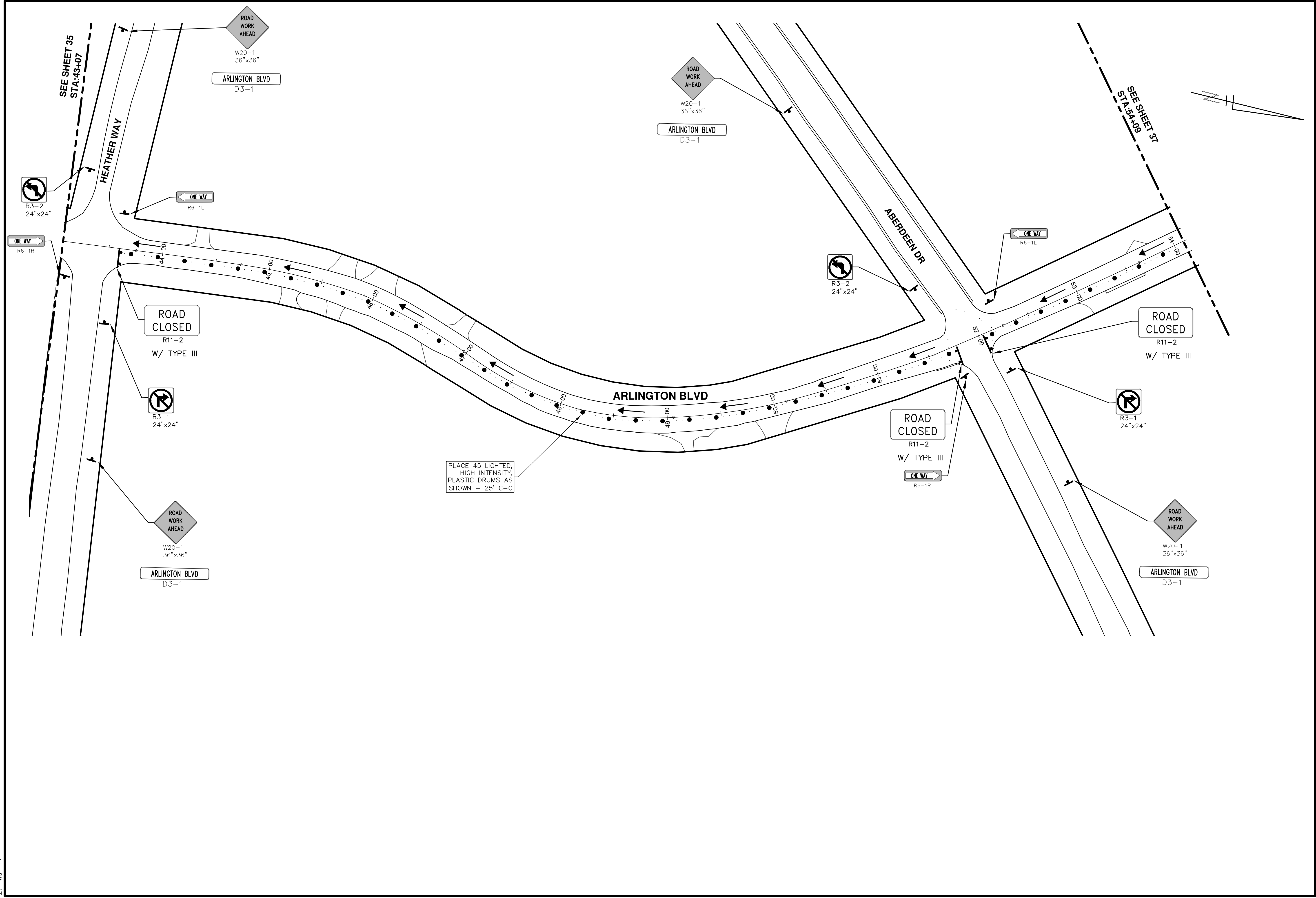
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
ARLINGTON BOULEVARD
TRAFFIC CONTROL

SCALE PLAN: 1" = 40'
DRAWING No. 2017004-35

SHEET No. 35 OF 136

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - Arlington Boulevard TRFC.dwg Dwg Created: 20-Dec-16 - _a2 standard bw.stb - Plot Date: 27-Mar-17



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 ARLINGTON BOULEVARD
 TRAFFIC CONTROL

SCALE PLAN: 1" = 40'

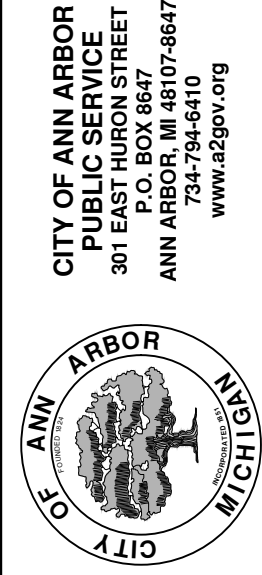
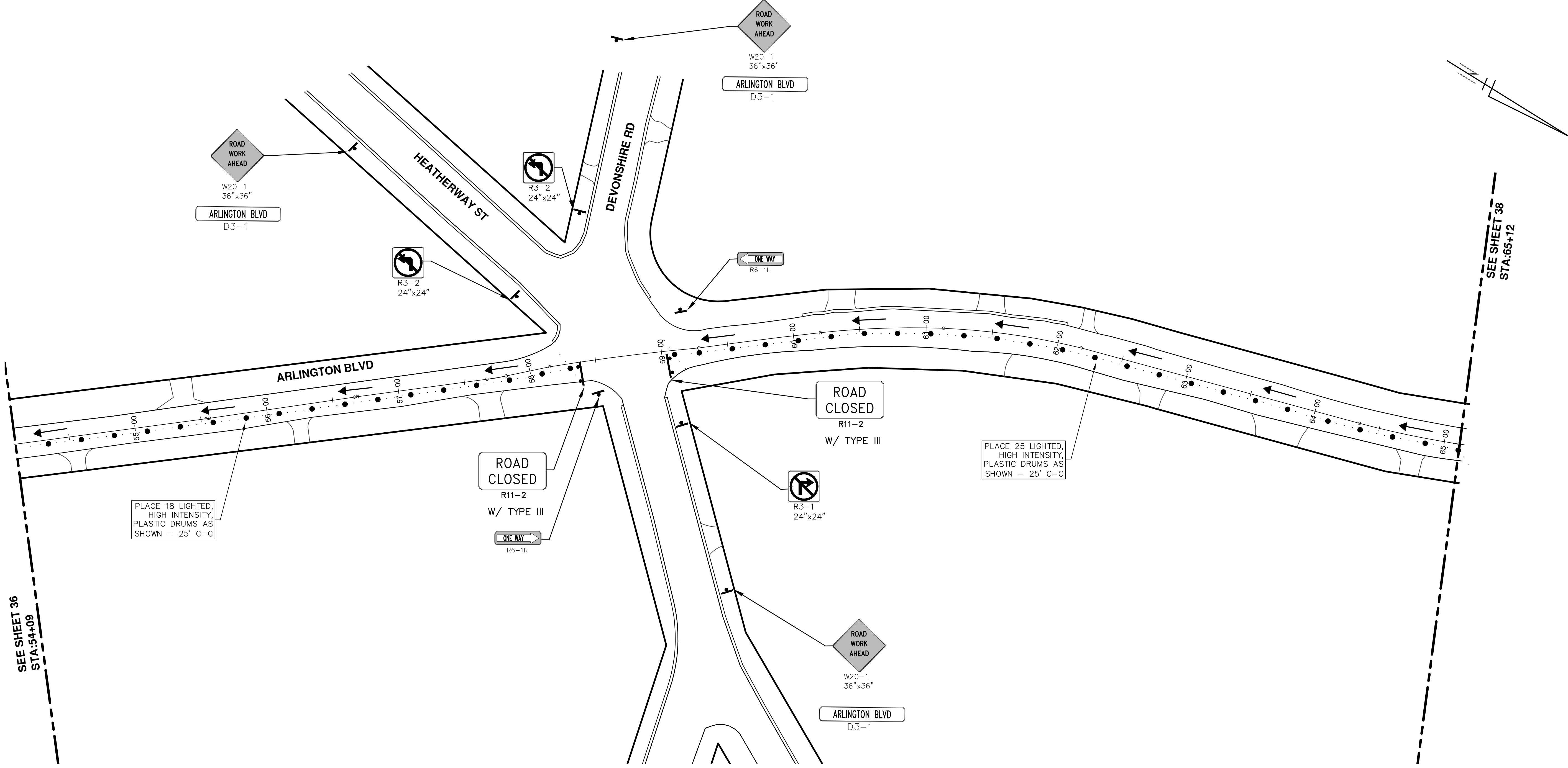
DRAWING No. 2017004-36

SHEET No. 36 OF 136

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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
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00	03-08-17	AG.GS.RG	DRAWN	CHECKED

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

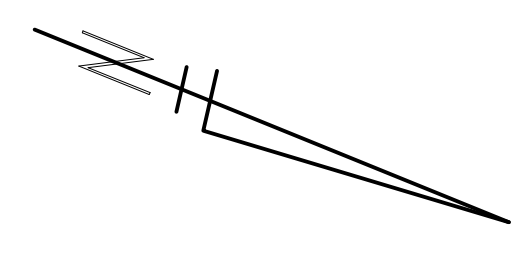
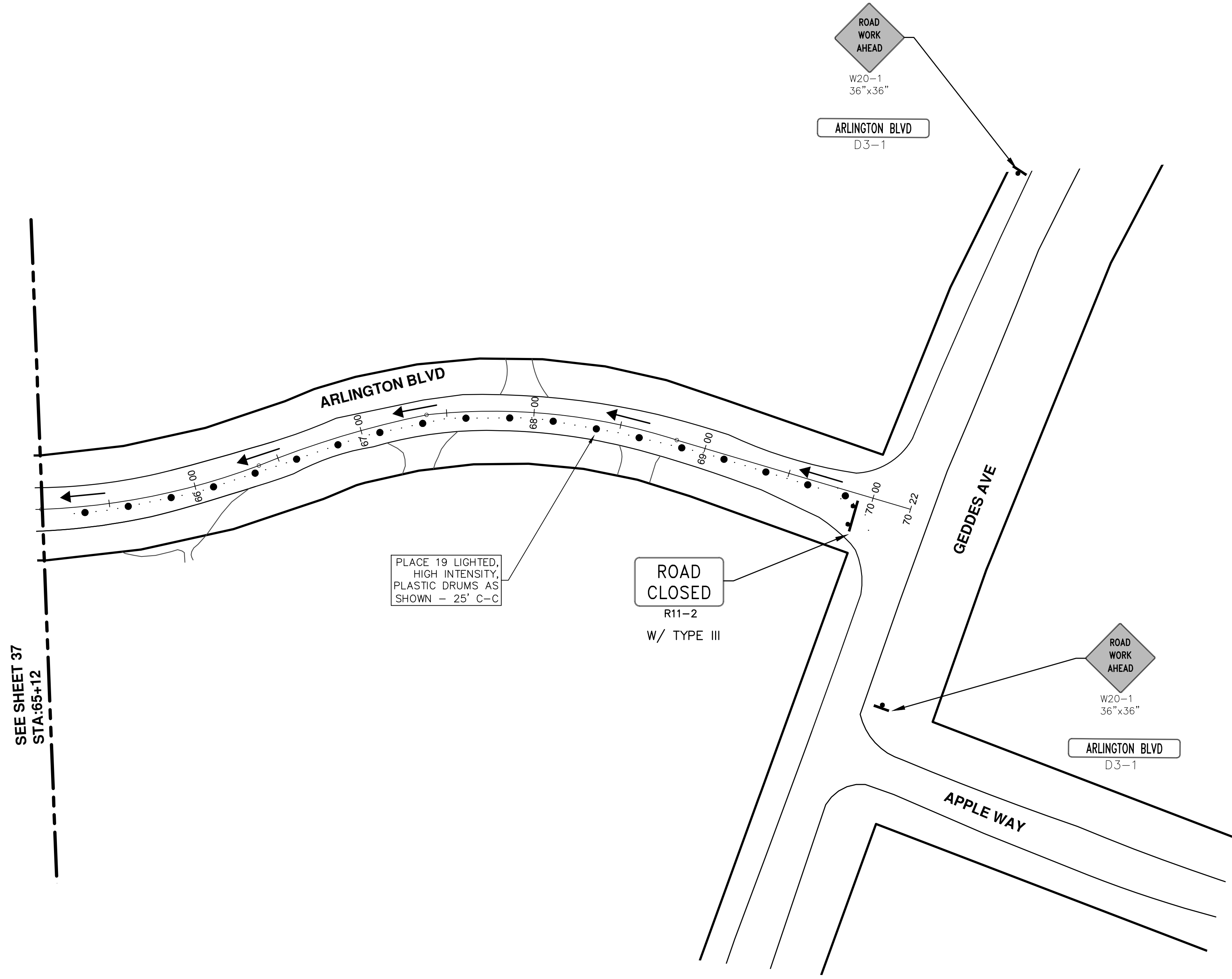


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REV.	DATE	DESCRIPTION
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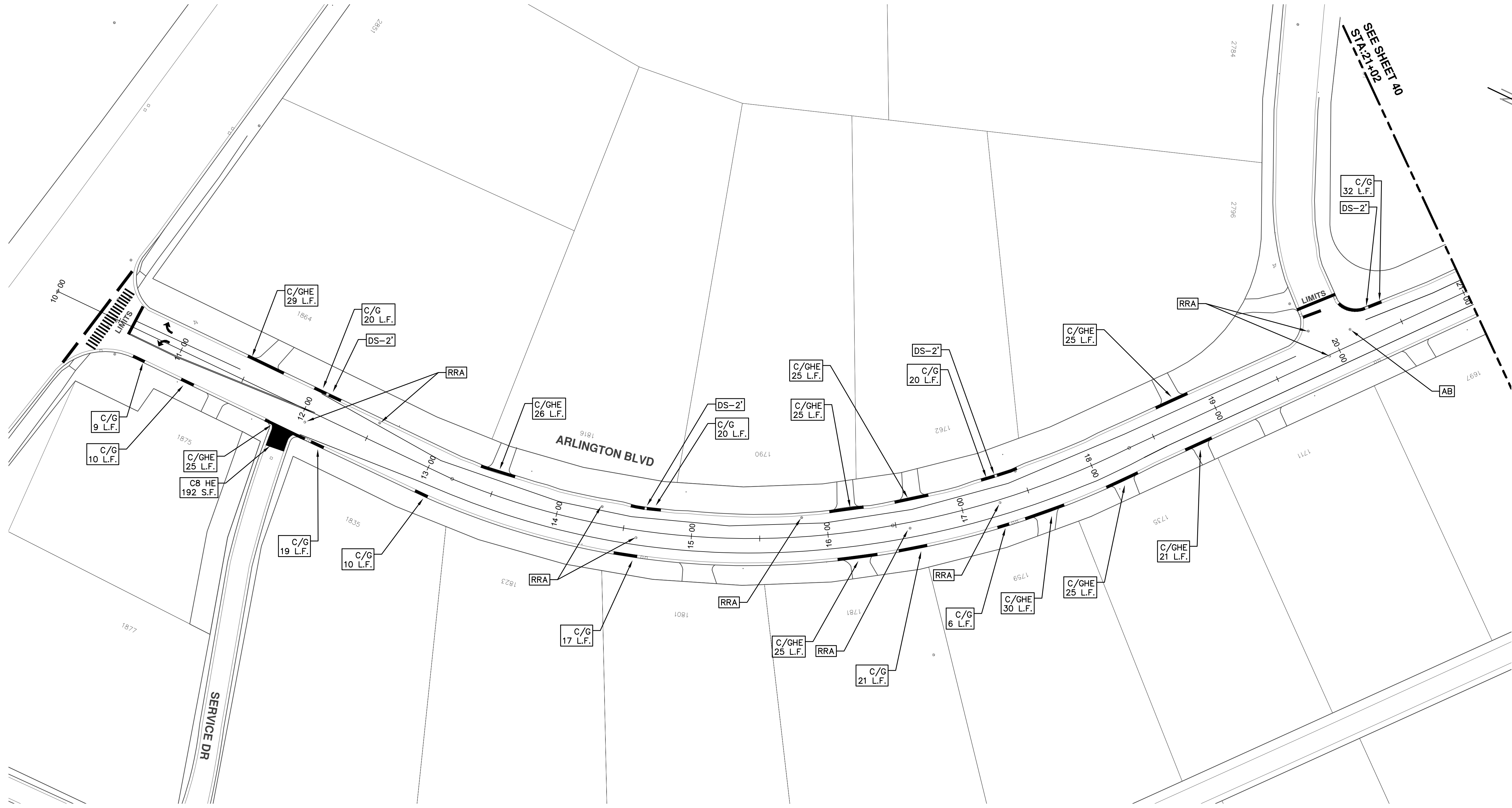


Know what's below.
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<p>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2017 ARLINGTON BOULEVARD TRAFFIC CONTROL</p>		<p>811 Know what's below. Call before you dig.</p>																
<p>SCALE PLAN: 1" = 40'</p>	<p>DRAWING No. 2017004-38</p>	<p>CITY OF ANN ARBOR PUBLIC SERVICE 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 ANN ARBOR: 734.754.4410 www.a2gov.org</p>	<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>DRAWN</th> <th>CHECKED</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>03-24-17</td> <td>ADDENDUM #1</td> <td>AG.GS.RG</td> <td>DAD</td> </tr> <tr> <td>00</td> <td>03-08-17</td> <td>BID SET</td> <td>AG.GS.RG</td> <td>DAD</td> </tr> </tbody> </table>	REV.	DATE	DESCRIPTION	DRAWN	CHECKED	01	03-24-17	ADDENDUM #1	AG.GS.RG	DAD	00	03-08-17	BID SET	AG.GS.RG	DAD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED														
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00	03-08-17	BID SET	AG.GS.RG	DAD														
<p>SHEET No. 38 OF 136</p>																		

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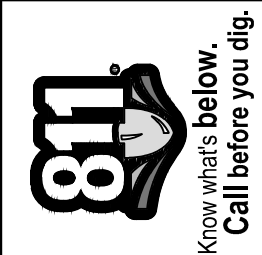
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 ANNUAL STREET RESURFACING - 2017
 ARLINGTON BOULEVARD
 STA. 10+00 - STA. 21+02

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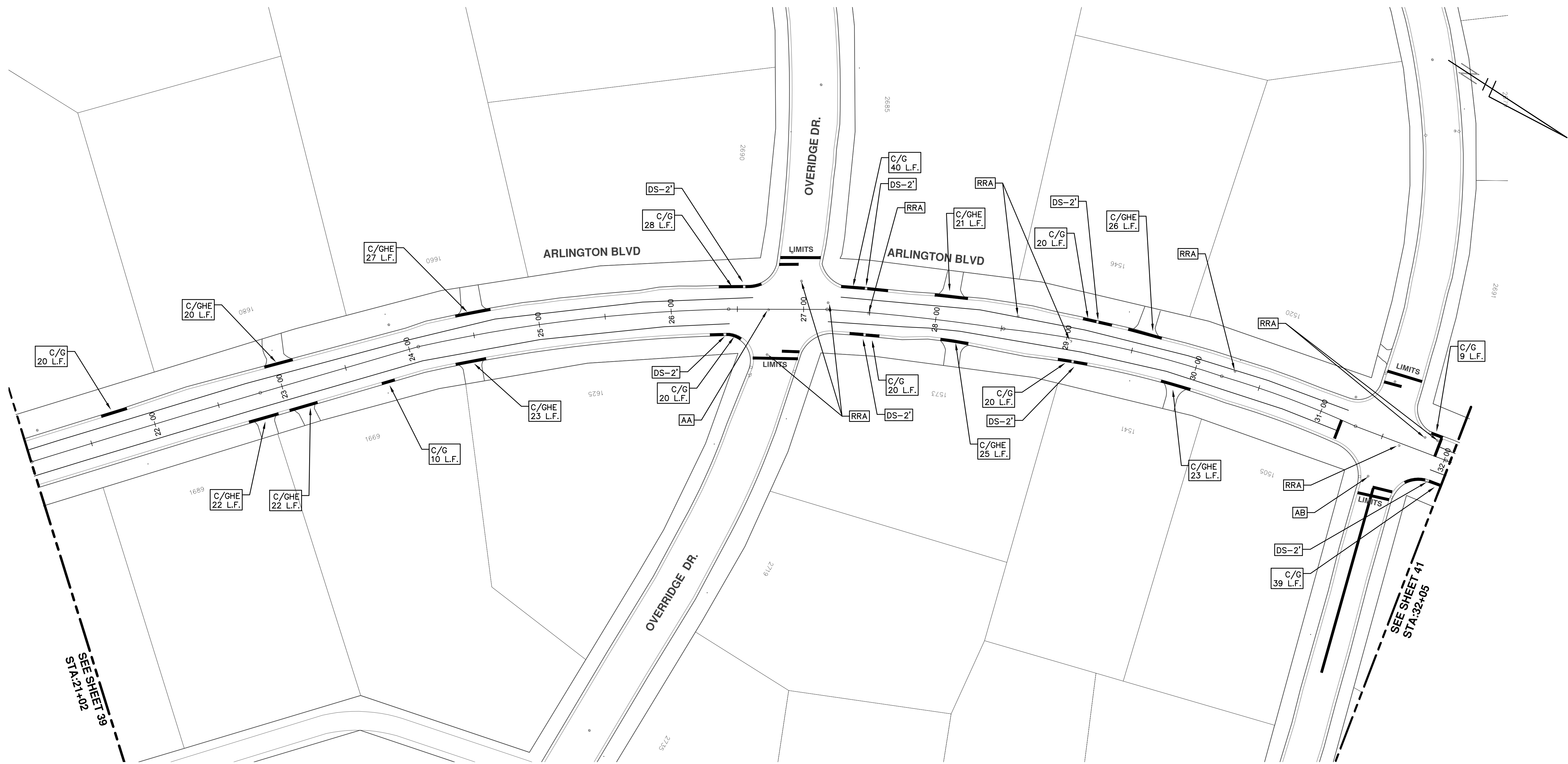


REV.	DESCRIPTION
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01	ADDENDUM #1

REV.	DATE	DRAWN	CHECKED
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03-24-17	AG.GSRG	DAD	DAD



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SEE SHEET 39
STA: 21+02

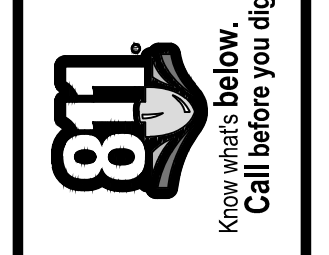
SEE SHEET 41
STA: 32+05



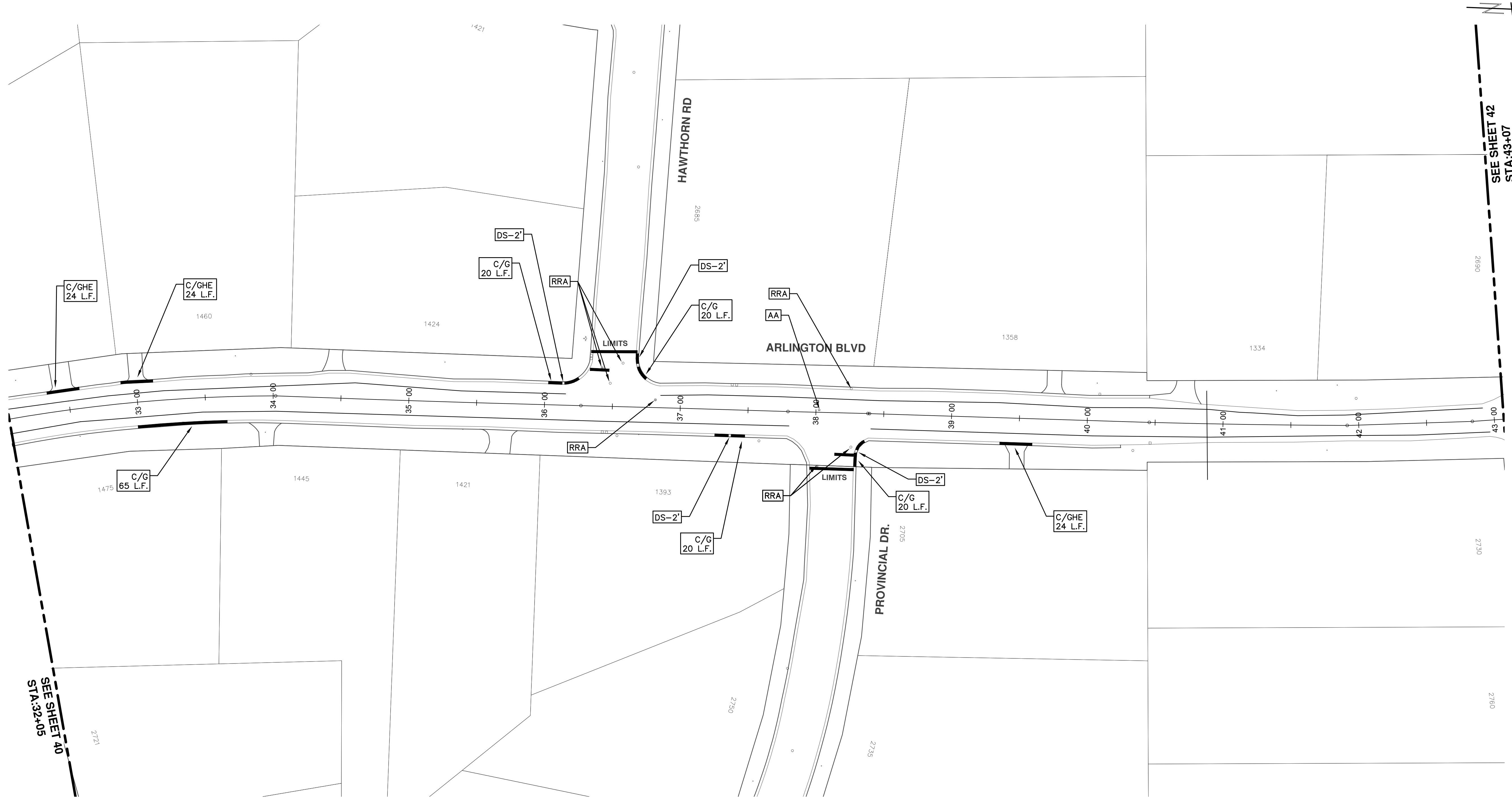
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 ANN ARBOR, MI 48106-0667
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REV.	DESCRIPTION
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DATE	DRAWN	CHECKED
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03-24-17	AG.GSRG	DAD

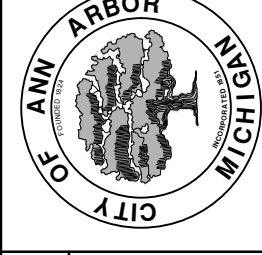


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SEE SHEET 40
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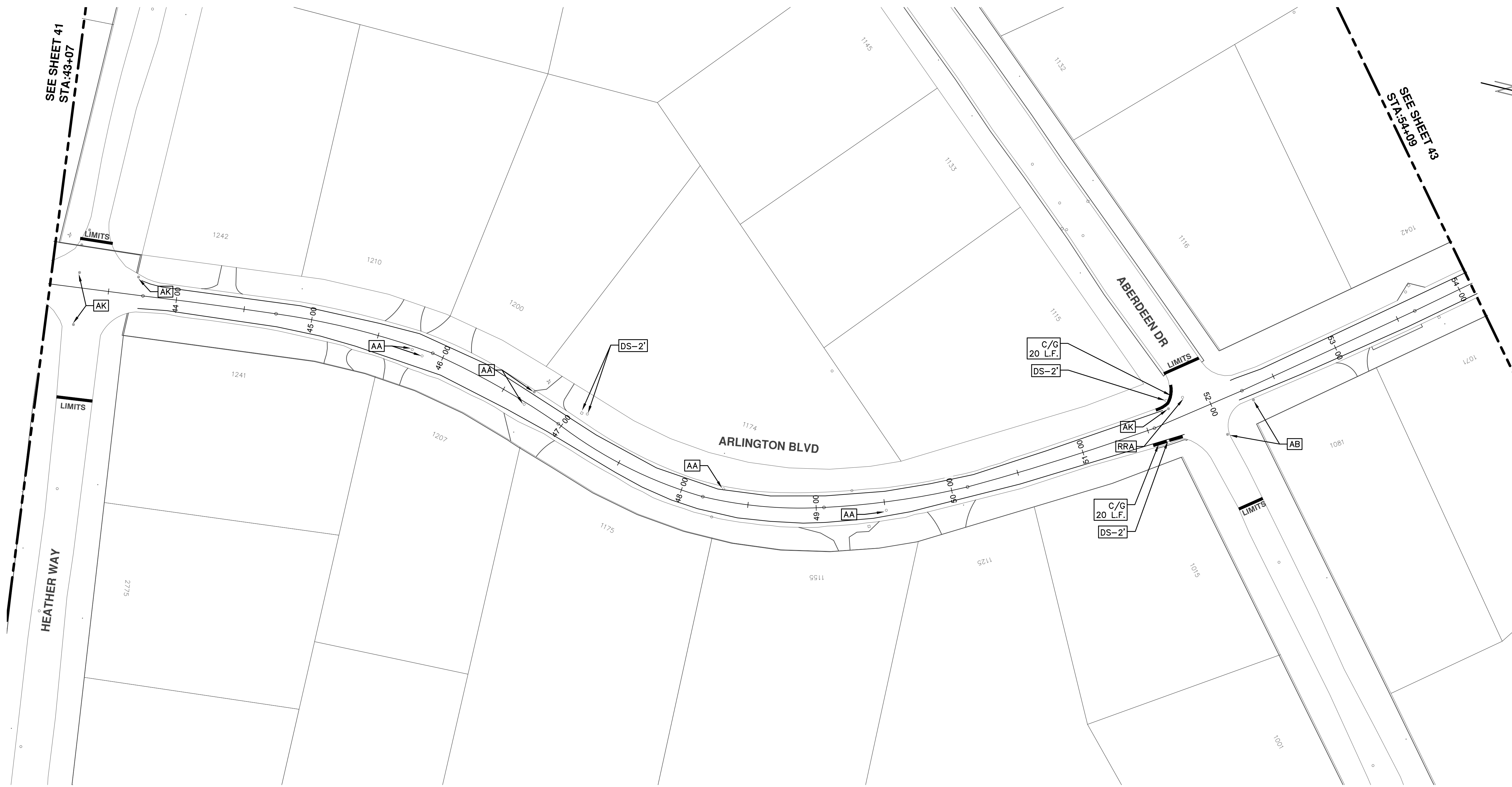
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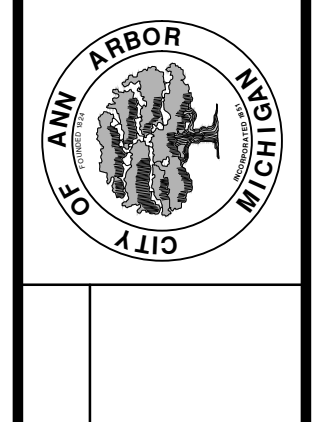
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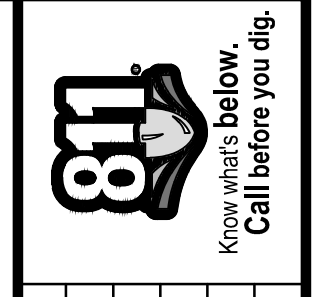
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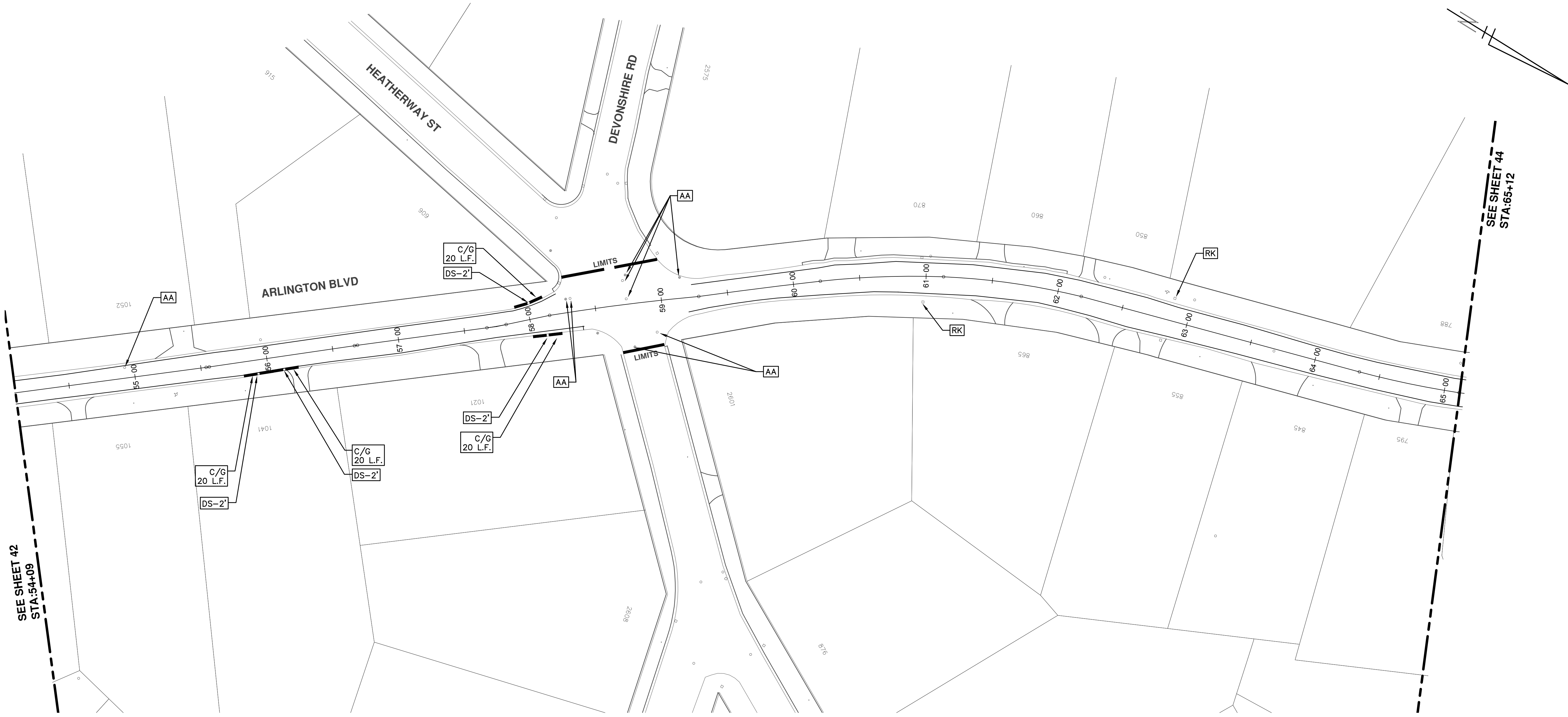
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00 BID SET AG:GSRG 03-08-17

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	03-08-17	AG:GSRG	DAD

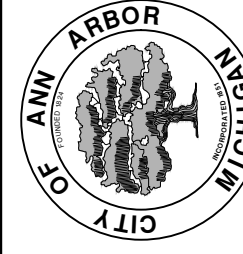




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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
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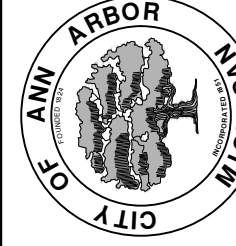
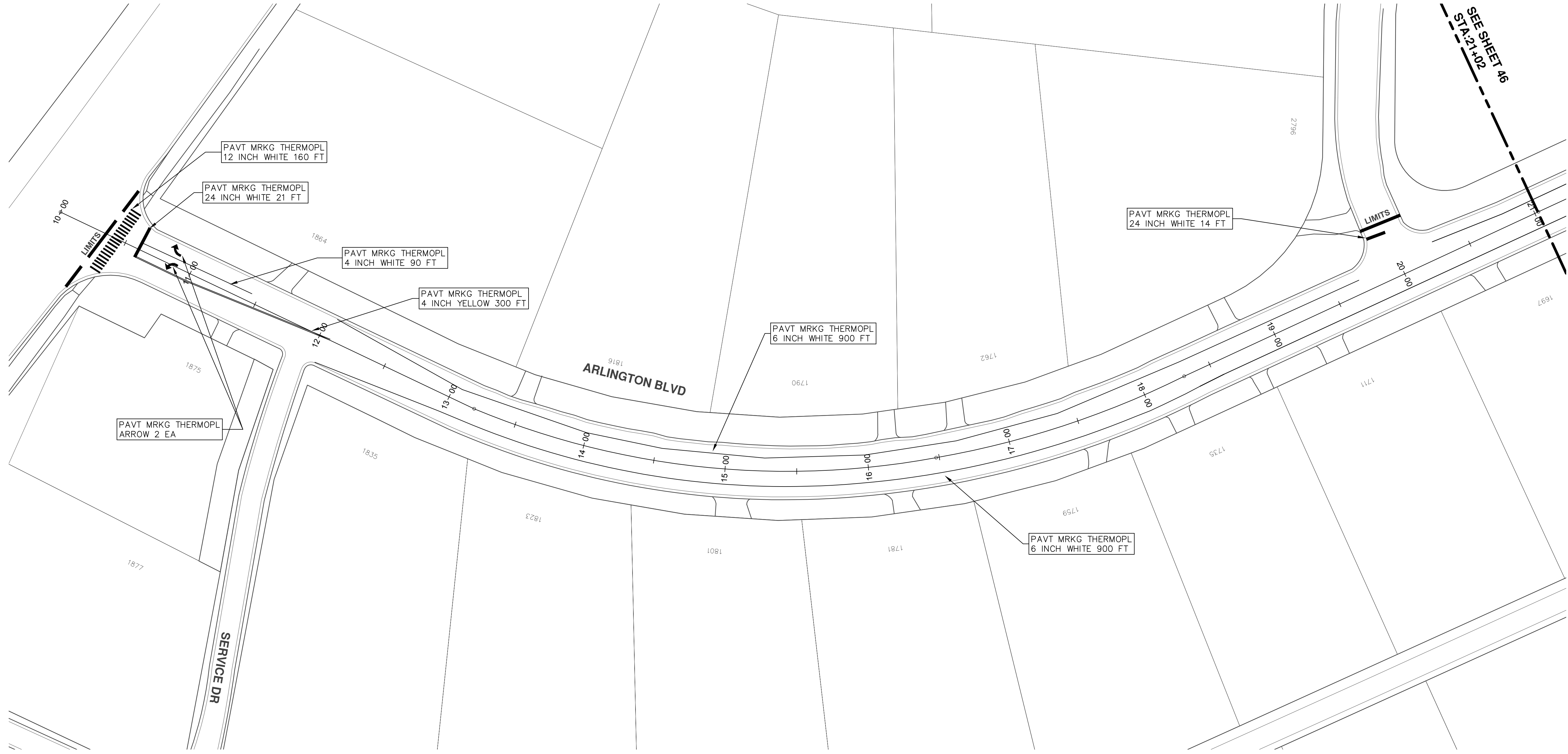




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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	03-08-17	AG.GS.RG	DAD



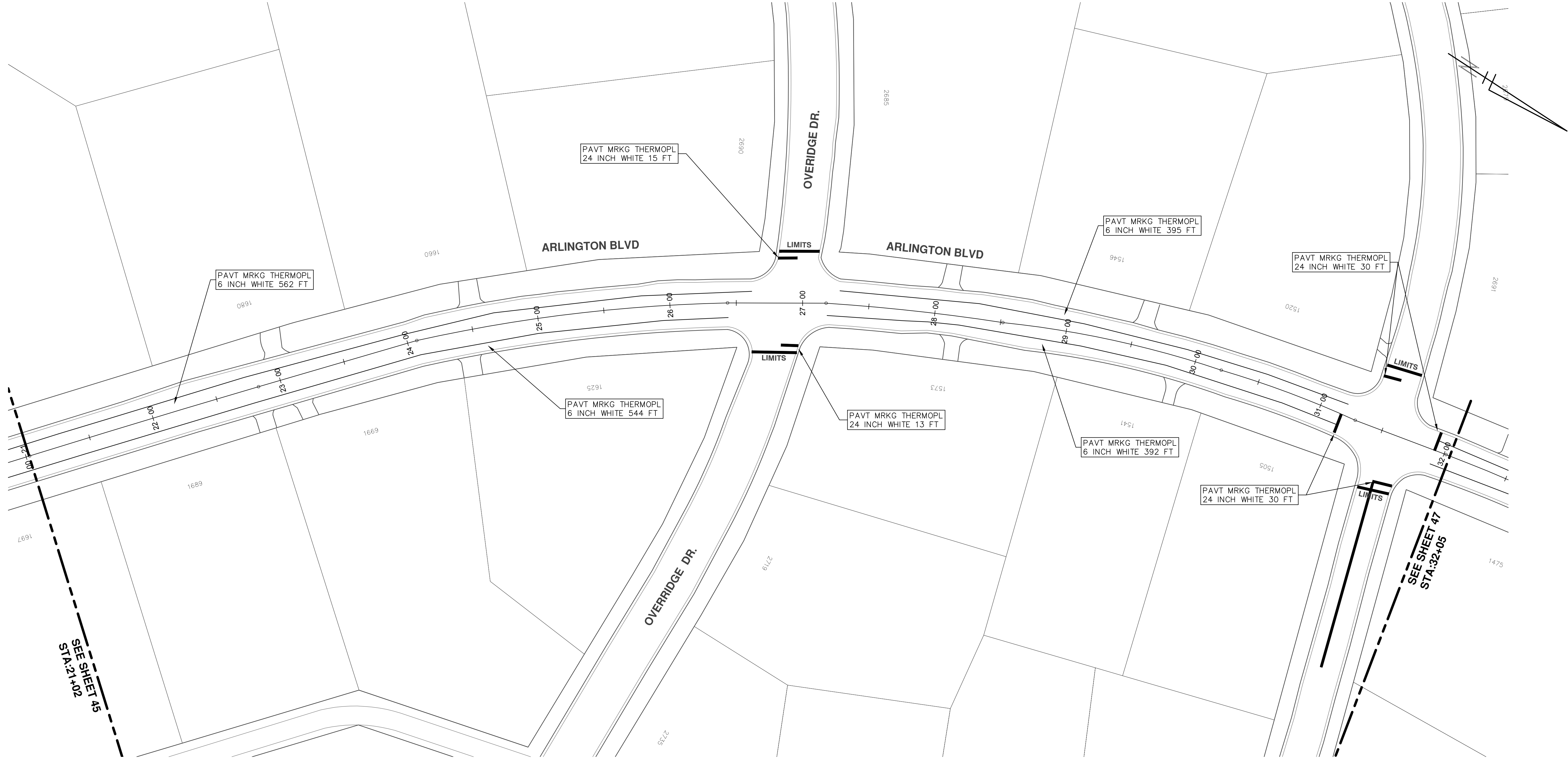


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REV.	DESCRIPTION
00	BID SET
01	ADDENDUM #1

DATE	DRAWN	CHECKED
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03-24-17	AG.GS.RG	DAD

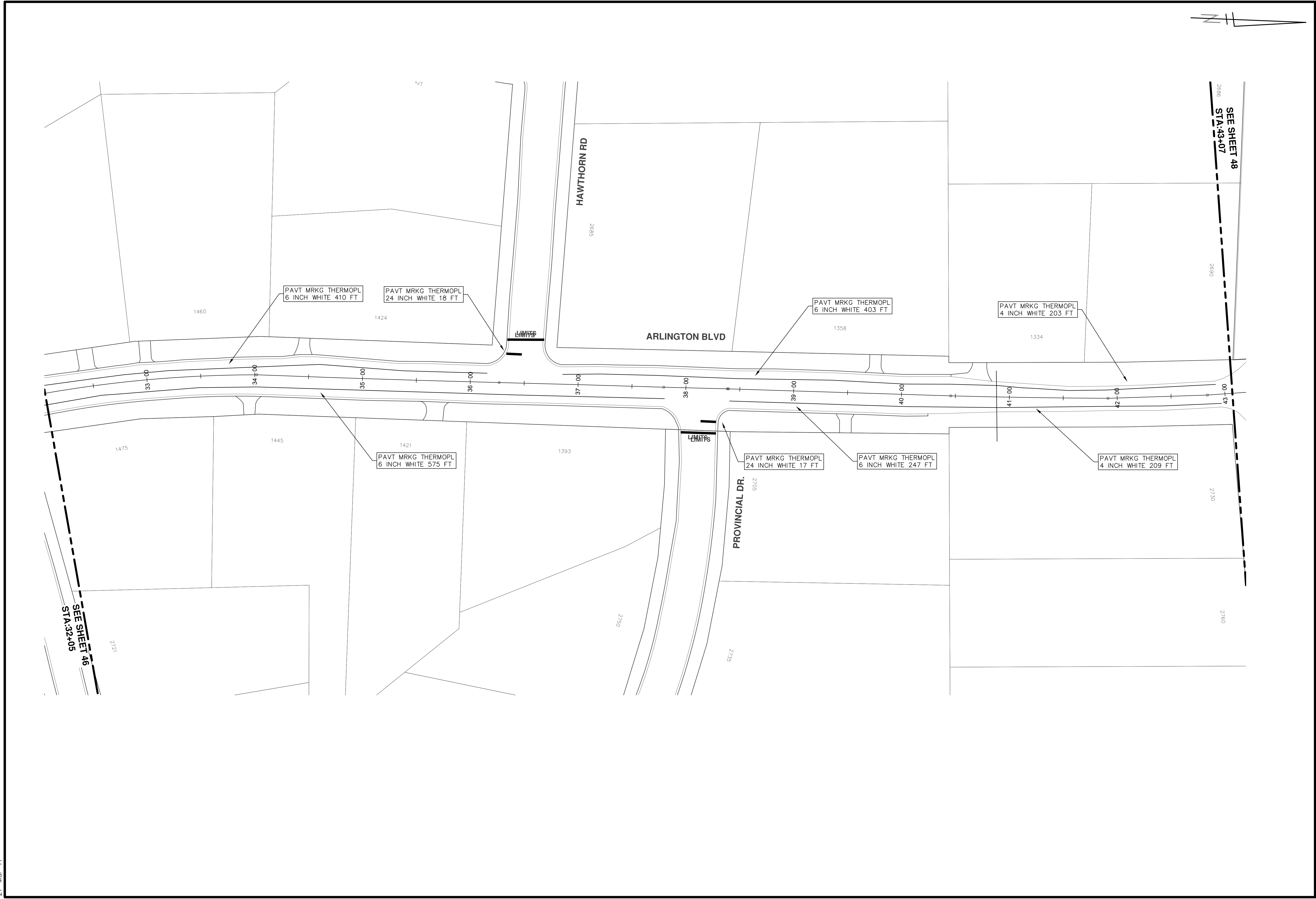






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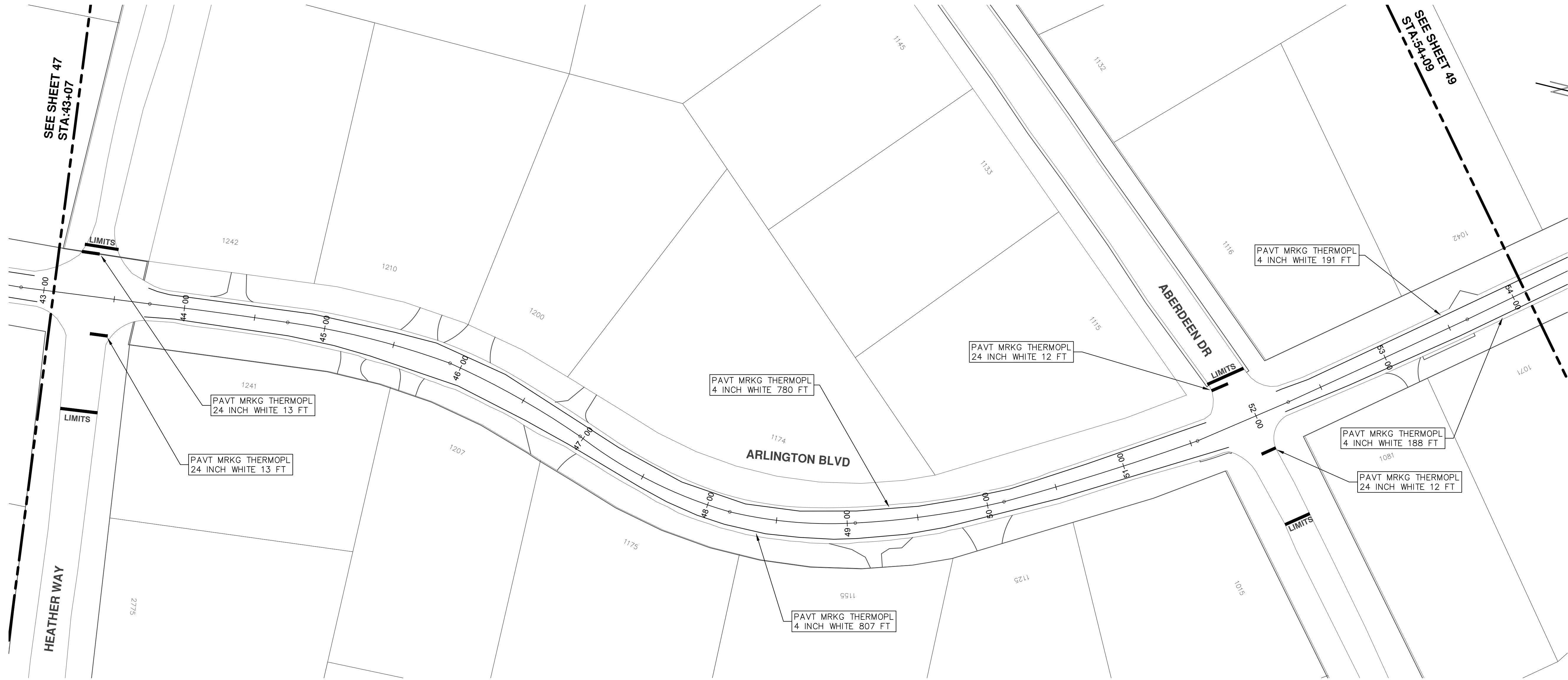
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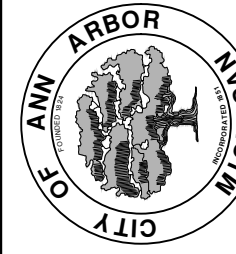
		PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2017 ARLINGTON BOULEVARD PAVEMENT MARKINGS	
SCALE PLAN: 1"=80' 		SHEET No. 47 OF 136 DRAWING No. 2017004-47	
CITY OF ANN ARBOR PUBLIC SERVICE 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48106-8647 734.764.4410 www.a2gov.org			
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00	BID SET	03-08-17	DAD





SEE SHEET 47
STA:43+07

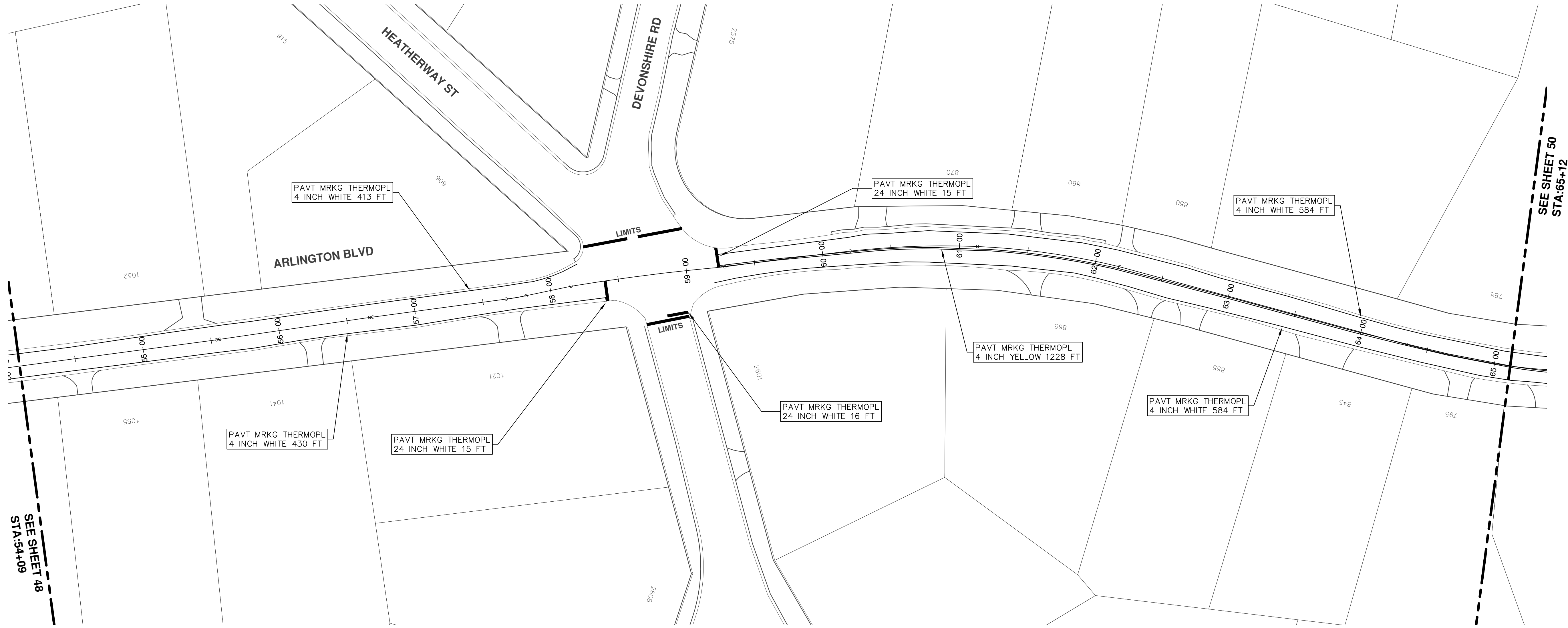
SEE SHEET 49
STA:54+09



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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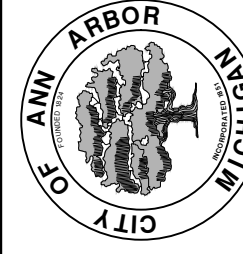
SEE SHEET 50
STA:65+12

SEE SHEET 48
STA:54+09



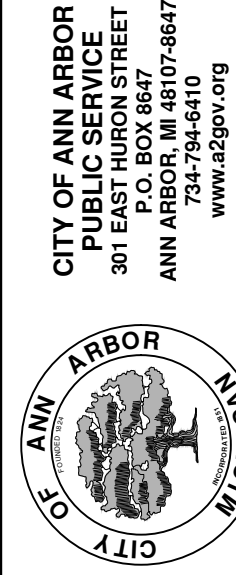
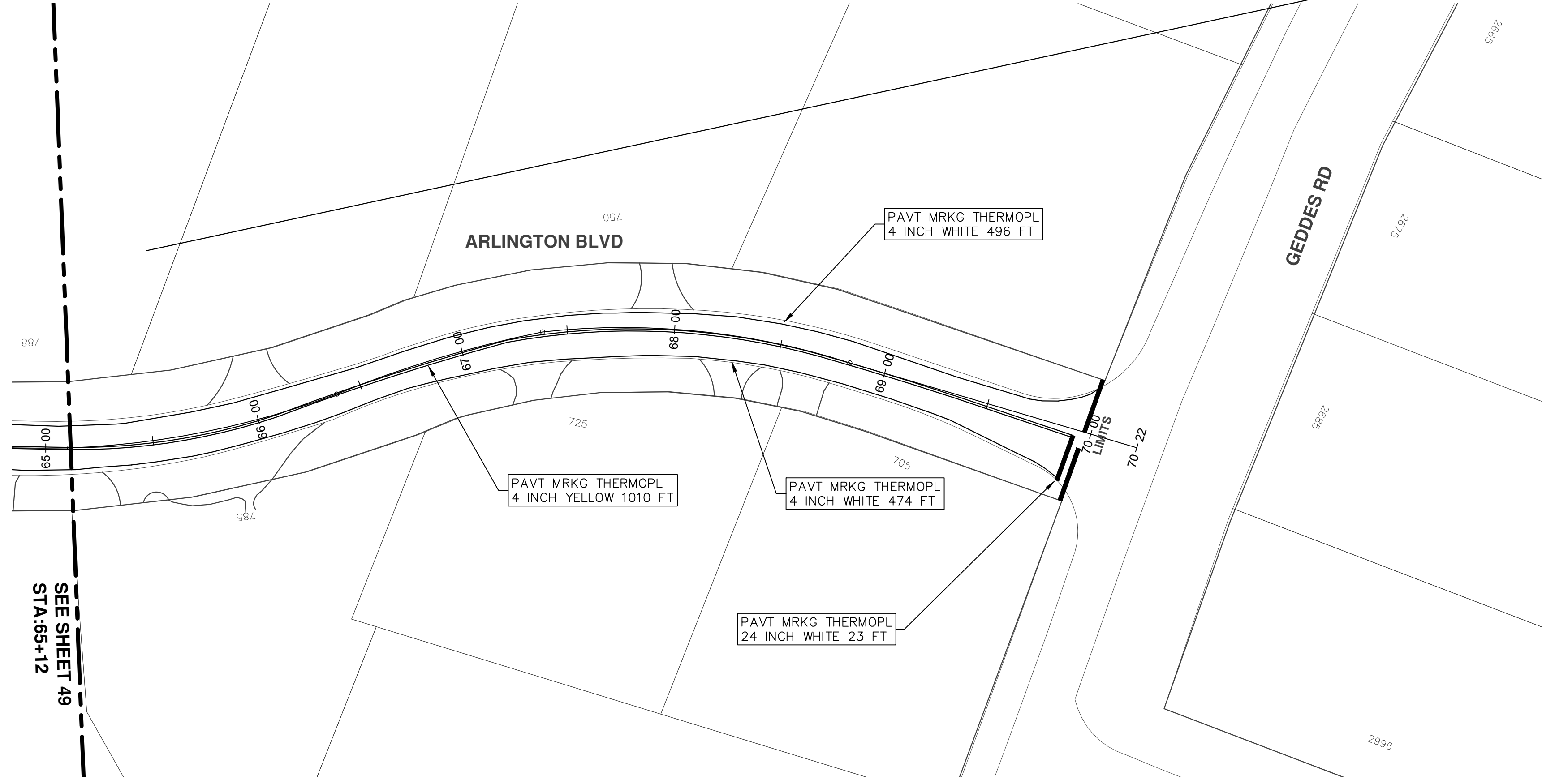
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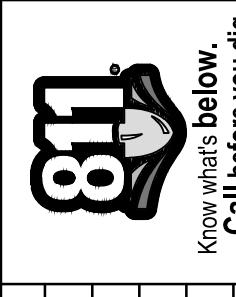
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
ARLINGTON BOULEVARD
PAVEMENT MARKINGS

SCALE PLAN: 1"=8'
DRAWING No. 2017004-49



REV.	DESCRIPTION
01	ADDENDUM #1
00	BID SET

DATE	DATE	DATE	DATE
03-08-17	03-24-17	AG.GS.RG	DAD
		AG.GS.RG	DAD





CITY OF ANN ARBOR PROJECT MANAGEMENT



PROJECT LOCATION: CATHERINE STREET

ITB No. 4477 FILE No. 2017-004

CONSTRUCTION METHOD AND SEQUENCING

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

PHASE I

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT AREA, INCLUDING GATE AND MONUMENT BOXES WITH EXCEPTION TO THE SEGMENT BETWEEN N INGALLS STREET AND GLEN AVENUE, WHICH STRUCTURES SHALL COLDMILLED AROUND.
- REMOVE 4 INCHES OF EXISTING HMA SURFACE BY COLDMILLING WITH EXCEPTION TO THE SEGMENT BETWEEN N INGALLS STREET AND GLEN AVENUE, WHICH PAVEMENT SHALL BE REMOVED TO A DEPTH OF ONLY 2 INCHES. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
- PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2 INCH LEVELING COURSE HMA MIX (LVSP) WITH EXCEPTION TO THE SEGMENT BETWEEN N INGALLS STREET AND GLEN AVENUE, WHICH PLACEMENT SHALL BE 2 INCH TOP COURSE HMA MIX (LVSP).

PHASE II

- REPEAT ITEMS 1 THRU 9 IN THE ORDER SHOWN ABOVE.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (LVSP) WITH EXCEPTION TO THE SEGMENT BETWEEN N INGALLS STREET AND GLEN AVENUE, WHICH TOP COURSE PLACEMENT SHALL BE COMPLETED UNDER ITEM 10 ABOVE.
- CLEAN PAVEMENT AND PLACE HMA APPROACHES AS REQUIRED.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- 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 THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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

QUANTITIES			
Item Code	Item Description	Units	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	50.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	39.000
2057011	_Grading, Sidewalk Ramp	Syd	39.000
2057021	_Subgrade Undercutting, Type IIA	Cyd	183.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	14.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	27.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	27.000
5010003	Cold Milling HMA Surface	Ton	2,471.000
5010005	HMA Surface, Rem	Syd	11.000
5010703	HMA, LVSP	Ton	2,411.000
5017031	HMA, Wedging, 36A	Ton	8.000
5017050	_HMA Surface, Around Structure Cover, Rem	Ea	7.000
6027021	_Flowable Fill	Cyd	1.852
8027001	_Curb and Gutter, Conc	Ft	50.000
8037001	_Detectable Warning Surface, Modified	Ft	30.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	350.000
8037010	_Sidewalk, Conc or Clay Brick Pavers, Rem and Reinstall	Sft	70.000
8110049	Pav Mrkg, Ovy Cold Plastic, Direction Arrow Sym, Bike	Ea	8.000
8110058	Pav Mrkg, Ovy Cold Plastic, Bike, Small Sym	Ea	3.000
8110520	Pav Mrkg, Wet Retrlec, Thermopl, 4 inch, White	Ft	696.000
8110521	Pav Mrkg, Wet Retrlec, Thermopl, 6 inch, White	Ft	5,311.000
8110524	Pav Mrkg, Wet Retrlec, Thermopl, 4 inch, Yellow	Ft	1,975.000
8117001	_Pav Mrkg, Wet Retrlec, Thermopl, 24 inch, Stop Bar	Ft	374.000
8117001	_Pav Mrkg, Wet Retrlec, Thermopl, 12 inch, Crosswalk	Ft	584.000
8117001	_Pav Mrkg, Wet Retrlec, Thermopl, 4 inch, Parking Sym, White	Ft	832.000
8117050	_Pav Mrkg, Wet Retrlec, Thermopl, Only	Ea	8.000
8117050	_Pav Mrkg, Wet Retrlec, Thermopl, Stop	Ea	2.000
8117050	_Pav Mrkg, Wet Retrlec, Thermopl, Lt Turn Arrow Sym	Ea	5.000
8117050	_Pav Mrkg, Wet Retrlec, Thermopl, Rt Turn Arrow Sym	Ea	4.000
8117050	_Pav Mrkg, Wet Retrlec, Thermopl, Thru Arrow Sym	Ea	2.000
8117050	_Pav Mrkg, Wet Retrlec, Thermopl, Thru and Lt Turn Arrow Sym	Ea	1.000
8117050	_Pav Mrkg, Wet Retrlec, Thermopl, Thru and Rt Turn Arrow Sym	Ea	1.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	10.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	10.000
8120140	Lighted Arrow, Type C, Furn	Ea	2.000
8120141	Lighted Arrow, Type C, Oper	Ea	2.000
8120210	Pav Mrkg, Longit, 6 inch or Less Width, Rem	Ft	40.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	125.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	125.000
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	542.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	542.000
8127050	_No Parking Sign	Ea	38.000
8167011	_Slope Restoration	Syd	19.000
8217050	_Monument Box Adjust	Ea	1.000

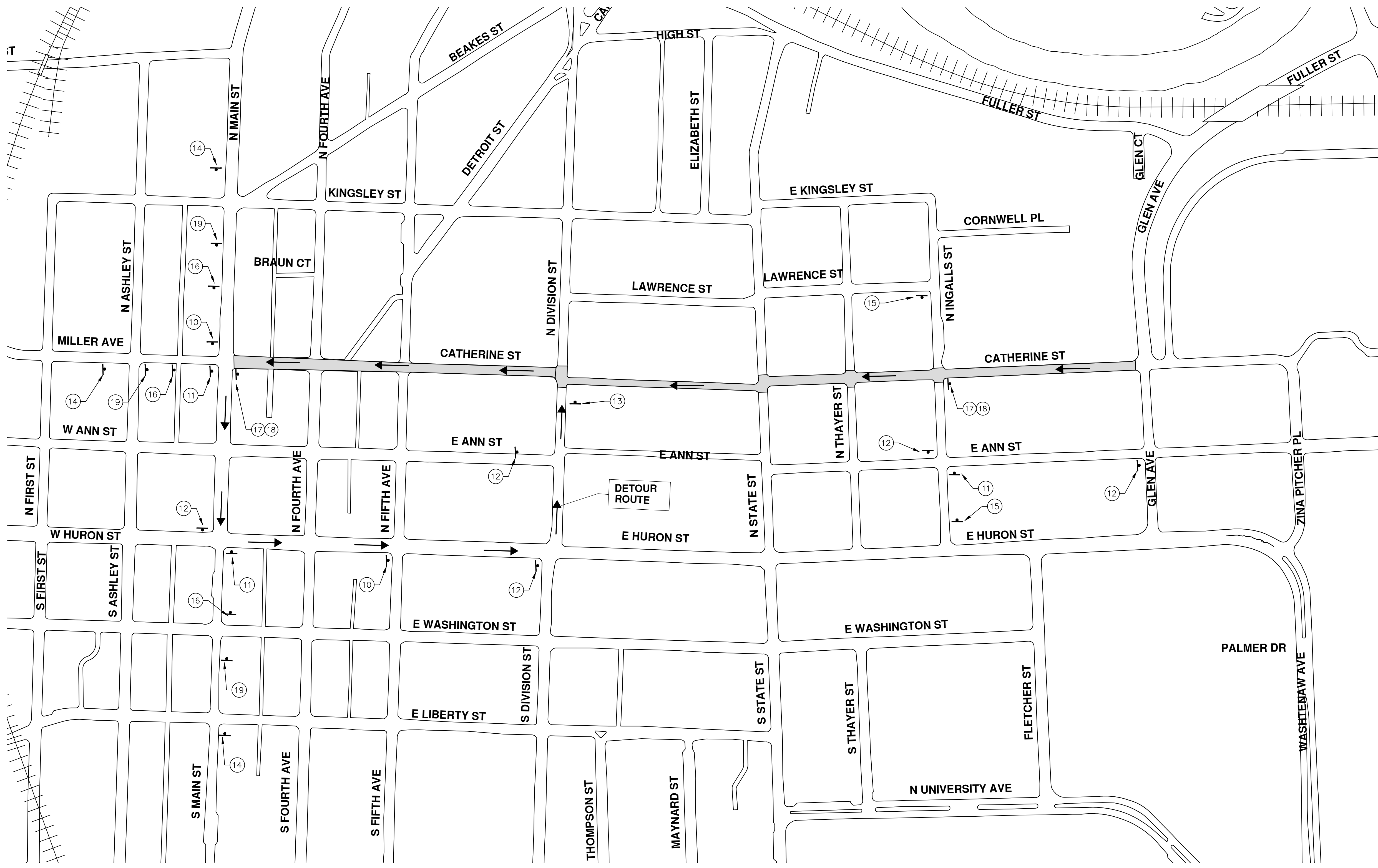
CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, 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 • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• Grading, Driveway Approach • Sidewalk, 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
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

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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sf)	Total Area
32.0	D3-1	Street Name Sign	4.000	128.000
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
1.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	5.000
2.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	10.000
2.0	R5-1	Do Not Enter Sign	6.250	12.500
2.0	R5-1A	Wrong Way Sign	6.000	12.000
8.0	R11-2	Road Closed Sign ("Road Closed")	8.000	64.000
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")	5.000	5.000
1.0	R6-1L	One Way (Left) Sign	3.000	3.000
1.0	R6-1R	One Way (Right) Sign	3.000	3.000
3.0	SP-1	Special Sign	20.000	60.000
15.0	W20-1	Road Work Ahead Sign	9.000	135.000
3.0	W20-2	Detour Ahead	9.000	27.000
3.0	W20-3	Road Closed Ahead	9.000	27.000
TOTAL			542.000	542.000



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



TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
10	CATHERINE ST DETOUR ↑	D3-1 M4-9S 30x24
11	CATHERINE ST DETOUR →	D3-1 M4-9R 30x24
12	CATHERINE ST DETOUR ←	D3-1 M4-9L 30x24
13	CATHERINE ST DETOUR ENDS	D3-1 M4-8a 24x18
14	EAST BOUND CATHERINE ST CLOSED AT N HOLLIS ST	SPECIAL 48x60
15	EAST BOUND CATHERINE ST CLOSED AT N INGALLS ST	SPECIAL 48x60
16	DETOUR AHEAD W20-2 36"x36" CATHERINE ST D3-1	W20-2 36"x36"
17	DO NOT ENTER R5-1 30"x30"	R5-1 30"x30"
18	WRONG WAY R5-1A 42"x30"	R5-1A 42"x30"
19	ROAD CLOSED AHEAD W20-3 36"x36" CATHERINE ST D3-1	W20-3 36"x36"

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 CATHERINE STREET
 DETOUR

SCALE PLAN: 1" = 200'
 DRAWING No. 2017004-52

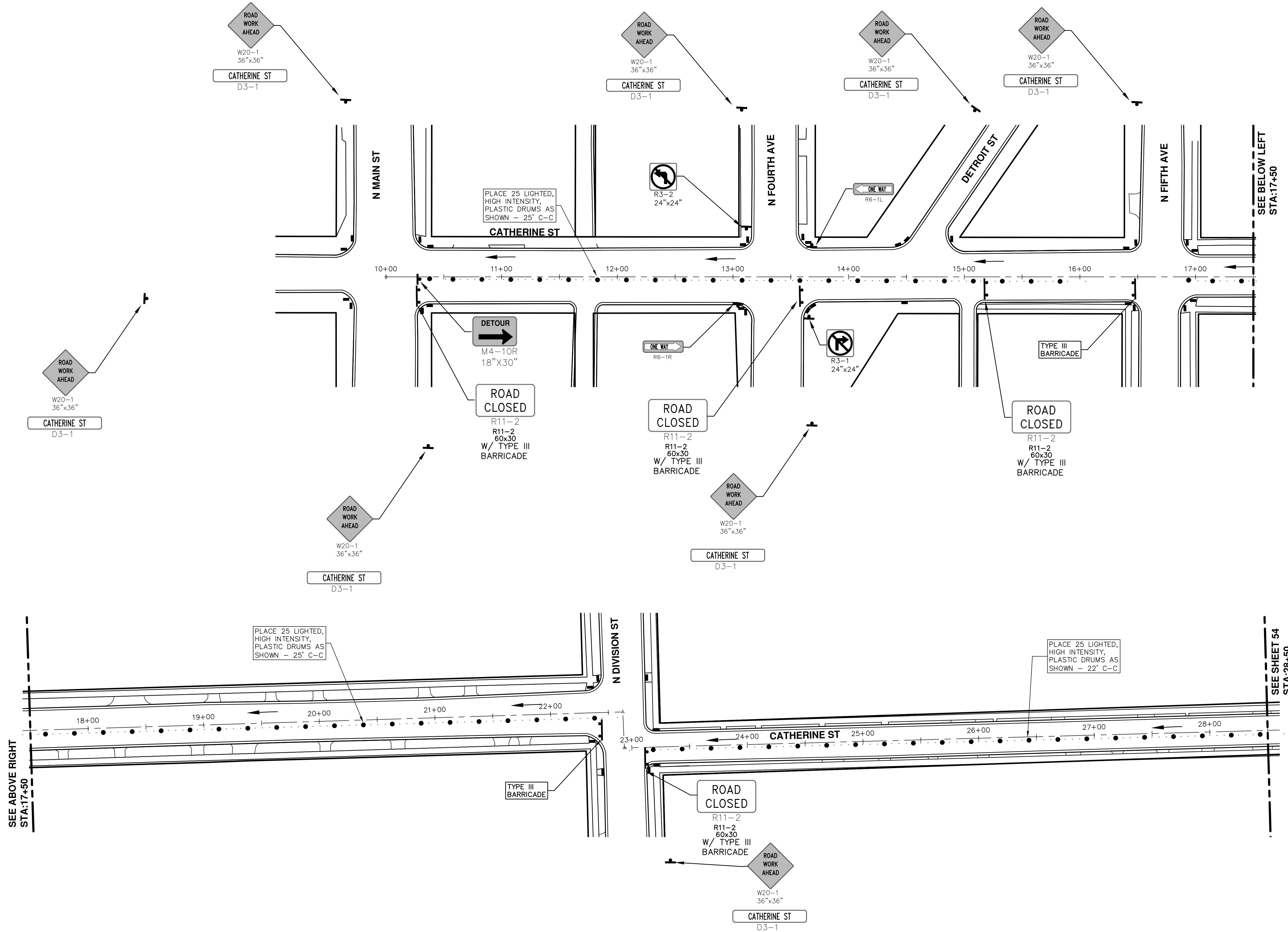
SHEET No. 52 OF 136

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

REV.	DATE	DESCRIPTION
00	03-08-17	DRAWN
01	03-24-17	AG.GS.RG
DAD	DAD	CHECKED

Know what's below.
Call Before you dig.

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - Catherine Street TRFC.dwg Dwg Created: 15-Dec-16 - _a2 standard b.w.stb - Plot Date: 27-Mar-17



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 CATHERINE STREET
 TRAFFIC CONTROL

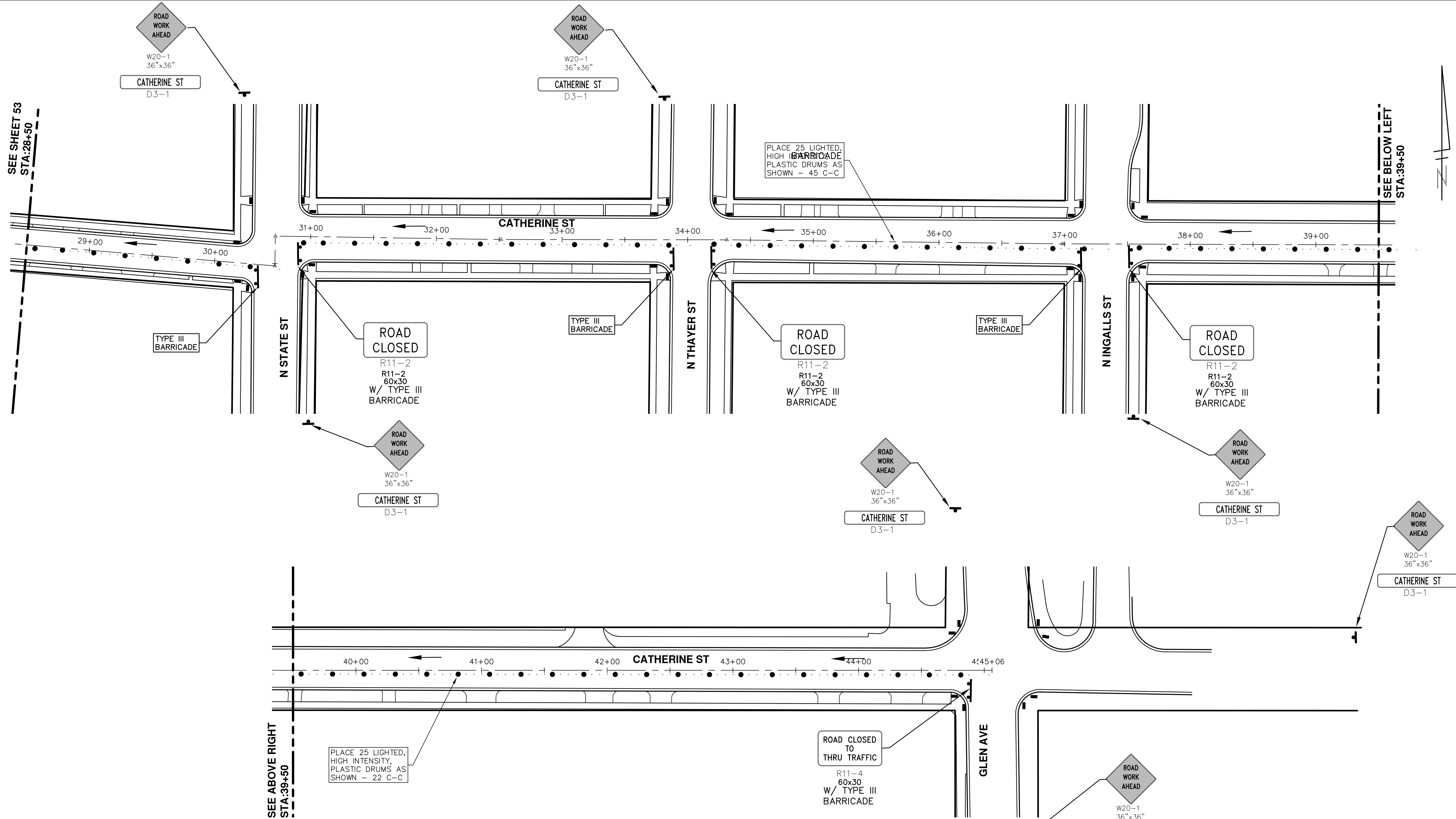
SCALE PLAN: 1" = 40'
 DRAWING No. 2017004-53

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

REV.	DATE	DRAWN	CHECKED	DESCRIPTION
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00	03-08-17	AG.GS.RG	DAD	BID SET

CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-8647
 ANN ARBOR MI 734-794-4410
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S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - Catherine Street TRFC.dwg Dwg Created: 15-Dec-16 - _a2 standard b.w.stb - Plot Date: 27-Mar-17



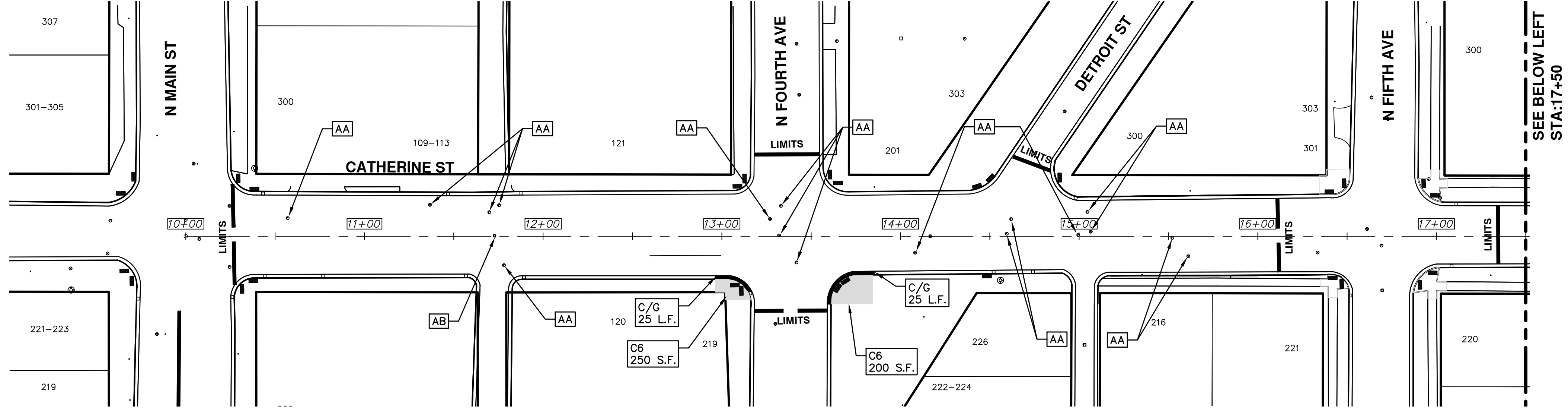
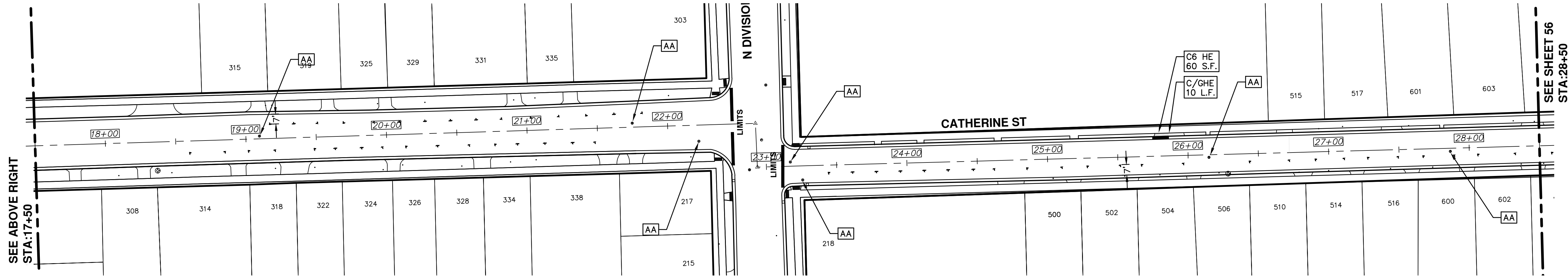
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 CATHERINE STREET
 TRAFFIC CONTROL

SCALE PLAN: 1" = 40'
 DRAWING No. 2017004-54

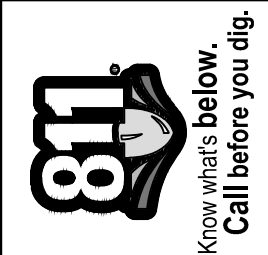
811
 Know what's below.
 Call Before you dig.

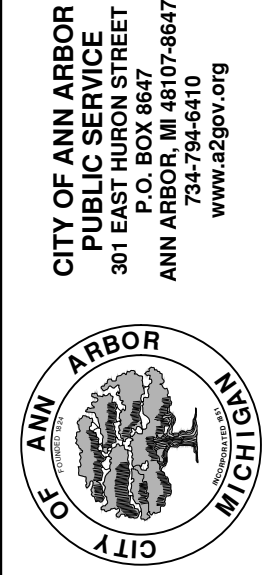
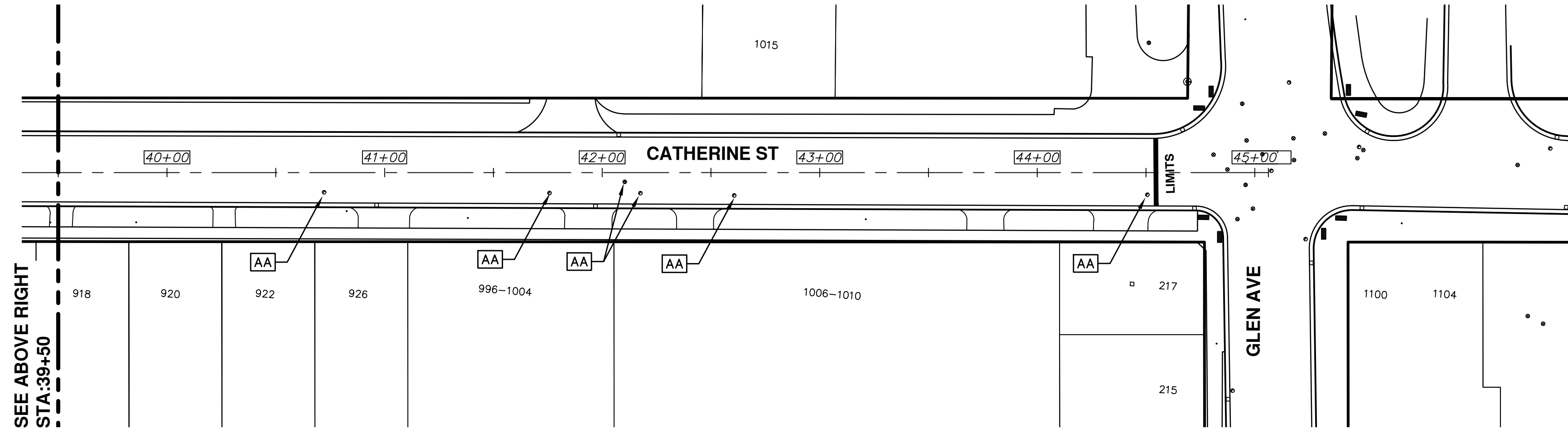
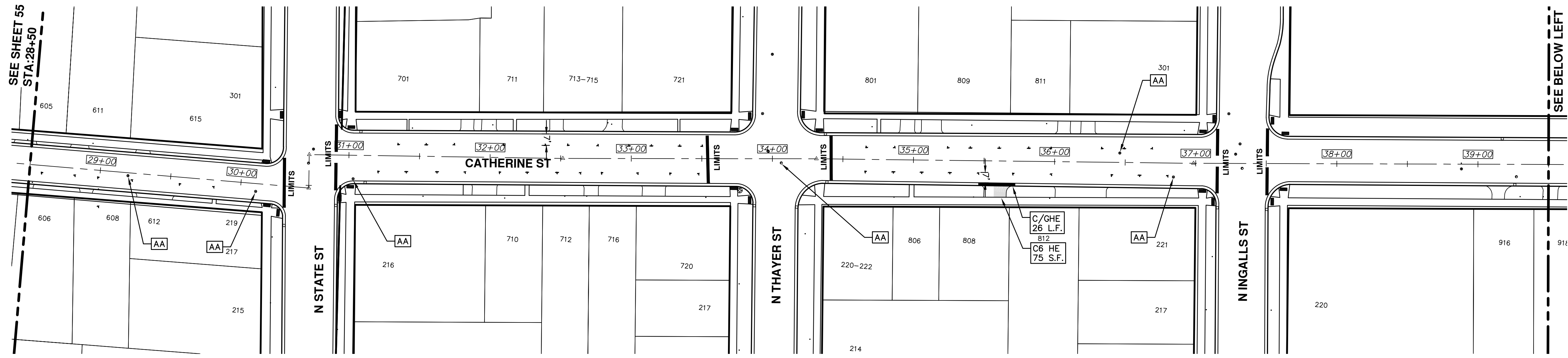
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00	03-08-17	AG.GSRG	DAD	BID SET

CITY OF ANN ARBOR
 PUBLIC SERVICE
 301 EAST HURON STREET
 P.O. BOX 86670
 ANN ARBOR MI 48108-8667
 www.a2gov.org



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	03-08-17	AG.GS.RG	DAD

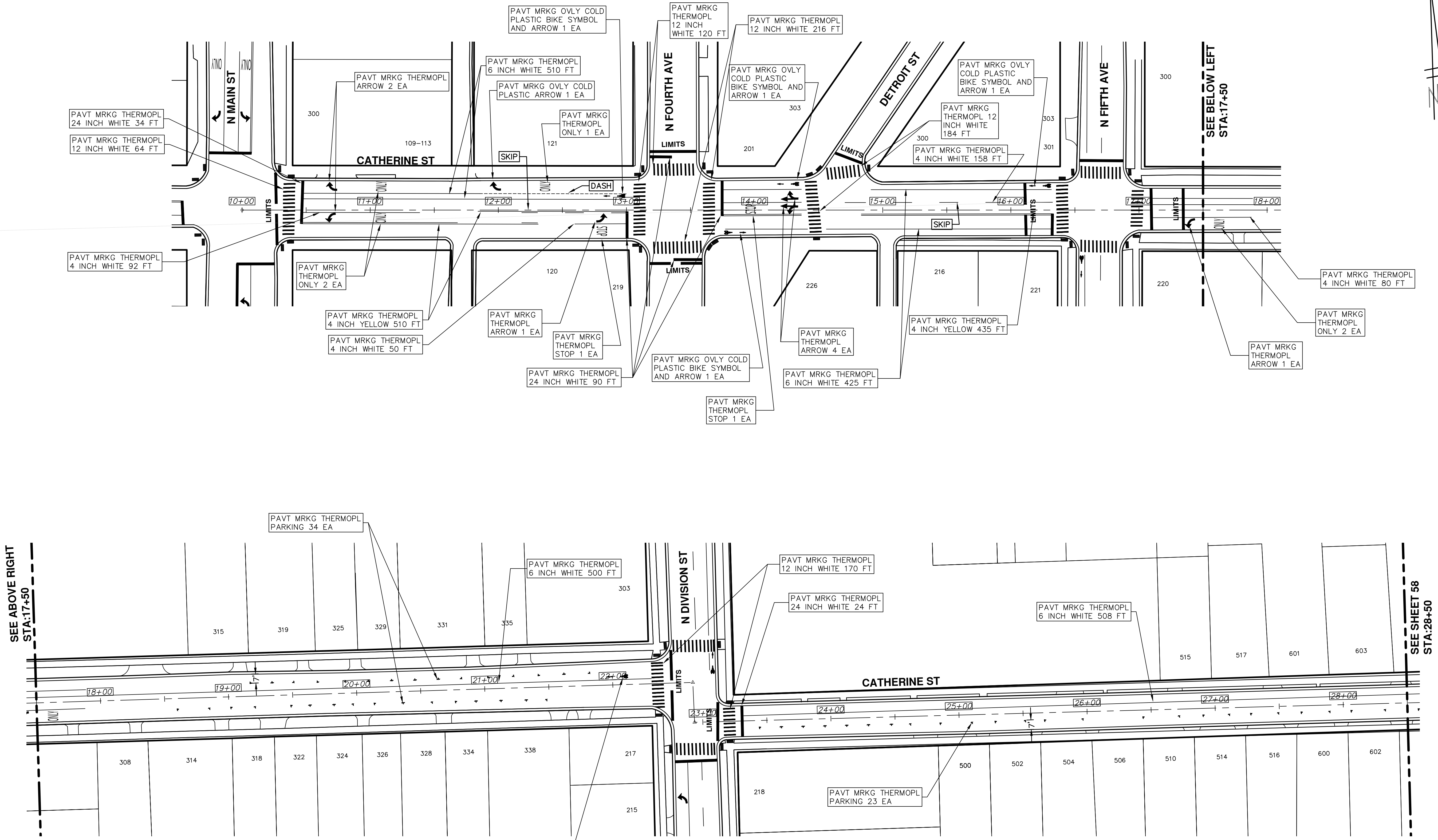




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00	BID SET	03-08-17	AG.GS.RG	DAD



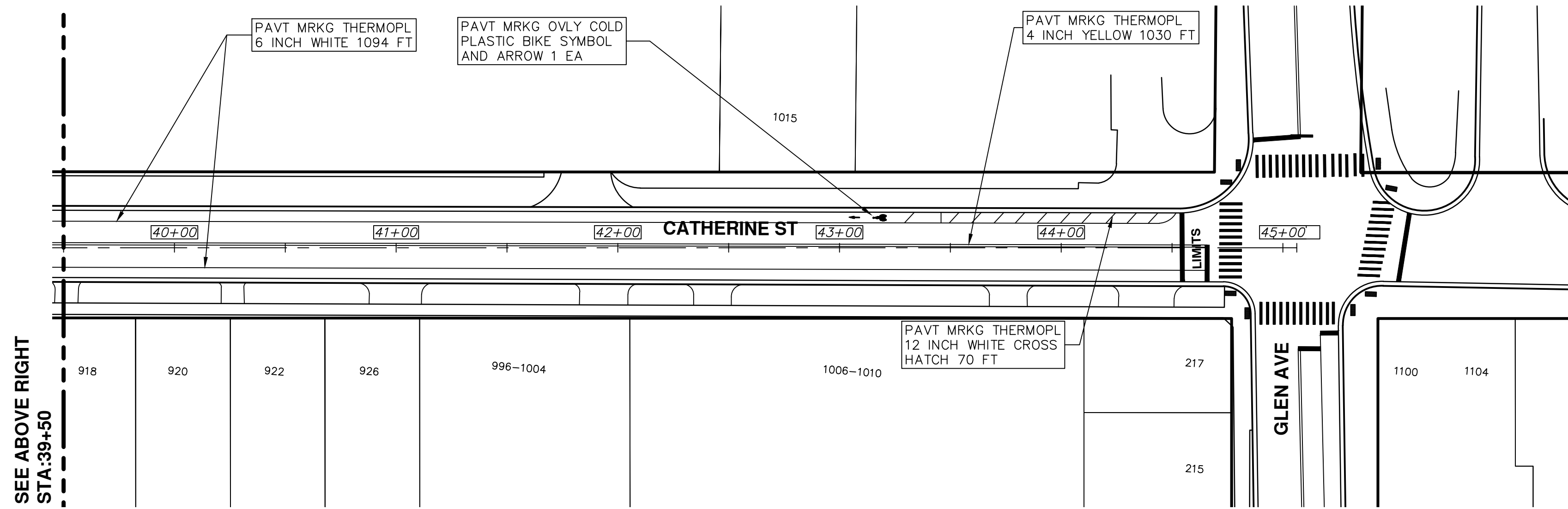
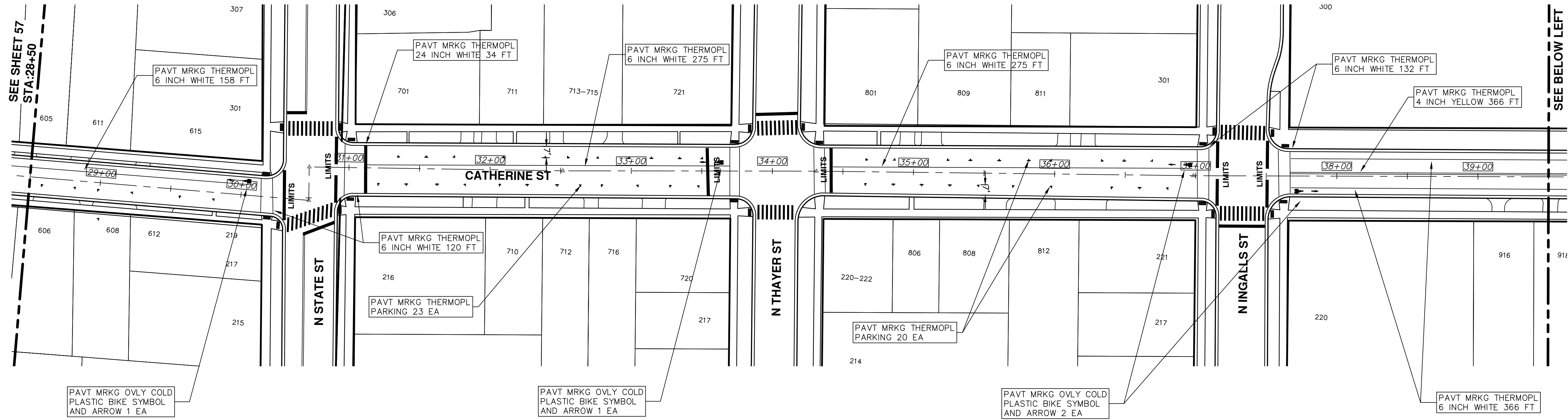
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SEE ABOVE RIGHT
STA:17+50

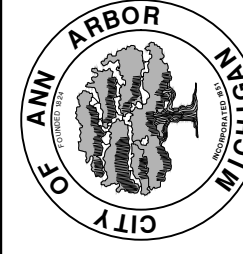
SEE SHEET 58
STA:28+50

	CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-6647 WWW.A2GOV.ORG
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2017 CATHERINE STREET PAVEMENT MARKINGS	SHEET No. 57 OF 136 SCALE PLAN: 1"=80' DRAWING No. 2017004-57
01 ADDENDUM #1 00 BID SET	03-24-17 AG.GS.RG 03-08-17 AG.GS.RG DATE DRAWN CHECKED
REV.	DESCRIPTION



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GSRG	DAD
00	BID SET	03-08-17	AG.GSRG	DAD

CITY OF ANN ARBOR
PUBLIC SERVICE
301 EAST HURON STREET
ANN ARBOR MI 48106-1667
www.a2gov.org



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
CATHERINE STREET
PAVEMENT MARKINGS

SCALE PLAN: 1"=80'
DRAWING No. 2017004-58



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: CHURCH STREET

ITB No. 4477 FILE No. 2017-004

CONSTRUCTION METHOD AND SEQUENCING

WORK ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AS DIRECTED BY THE ENGINEER, AND UTILIZING PART WIDTH TWO (2) PHASE CONSTRUCTION. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER. COMPLETE ITEMS 12 THRU 14 UTILIZING THE M.O.T. PLAN CURRENTLY IN PLACE, LANE CLOSURES, AND FLAG CONTROL OPERATIONS AS DIRECTED BY THE ENGINEER.

PHASE I

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION.
- REMOVE 2 INCHES OF EXISTING HMA SURFACE BY COLDMILLING.
- PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (LVSP).

PHASE II

- REPEAT ITEMS 1 THRU 4 IN THE ORDER SHOWN ABOVE.
- REMOVE 2 INCHES OF EXISTING HMA SURFACE BY COLDMILLING.
- PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE HMA APPROACHES AS REQUIRED.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- 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 THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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

QUANTITIES			
Item Code	Item Description	Units	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	40.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	50.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	6.000
5010003	Cold Milling HMA Surface	Ton	395.000
5010005	HMA Surface, Rem	Syd	9.000
5010703	HMA, LVSP	Ton	395.000
5017050	_HMA Surface, Around Structure Cover, Rem	Ea	14.000
6027021	_Flowable Fill	Cyd	1.481
8027001	_Curb and Gutter, Conc	Ft	40.000
8037001	_Detectable Warning Surface, Modified	Ft	10.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	150.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	300.000
8110520	Pav Mrkg, Wet Retrflec, Thermopl, 4 inch, White	Ft	210.000
8110524	Pav Mrkg, Wet Retrflec, Thermopl, 4 inch, Yellow	Ft	1,675.000
8117001	_Pav Mrkg, Wet Retrflec, Thermopl, 12 inch, Crosswalk	Ft	288.000
8117001	_Pav Mrkg, Wet Retrflec, Thermopl, 24 inch, Stop Bar	Ft	45.000
8117050	_Pav Mrkg, Wet Retrflec, Thermopl, Thru and Lt Turn Arrow Sym	Ea	4.000
8117050	_Pav Mrkg, Wet Retrflec, Thermopl, Thru and Rt Turn Arrow Sym	Ea	4.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Fum	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120140	Lighted Arrow, Type C, Fum	Ea	2.000
8120141	Lighted Arrow, Type C, Oper	Ea	2.000
8120260	Plastic Drum, High Intensity, Lighted, Fum	Ea	45.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	45.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	2.000
8120350	Sign, Type B, Temp, Prismatic, Fum	Sft	377.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	377.000

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
C HE	• _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, Fum • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Fum • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

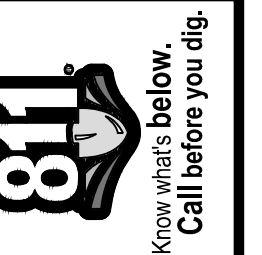
LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊚	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊙	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊞	MONUMENT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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
26.0	D3-1	Street Name Sign	4.000	104.000
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
1.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	5.000
10.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	50.000
2.0	R5-1	Do Not Enter Sign	6.250	12.500
2.0	R5-1A	Wrong Way Sign	6.000	12.000
1.0	R11-2	Road Closed Sign ("Road Closed")	8.000	8.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
2.0	SP-1	Special Sign	20.000	40.000
5.0	W20-1	Road Work Ahead Sign	9.000	45.000
3.0	W20-2	Detour Ahead	9.000	27.000
3.0	W20-3	Road Closed Ahead	9.000	27.000
TOTAL				377.000



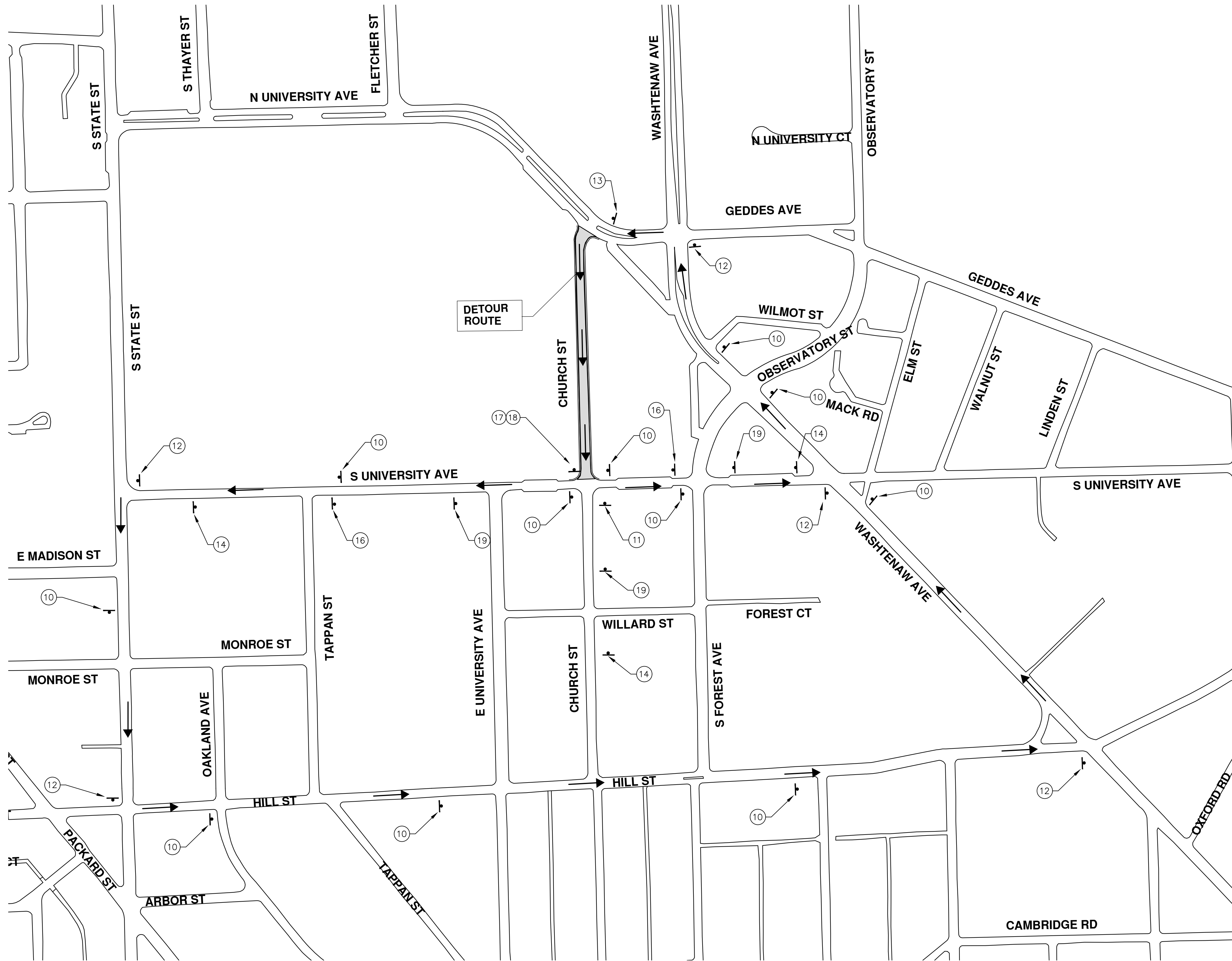
PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - Church Street.dwg Dwg Created: 16-Dec-16 - a2 standard bw.stb - Plot Date: 27-Mar-17



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
CHURCH STREET
DRAWING No. 2017004-59

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TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
10	CHURCH ST DETOUR ↑	D3-1 M4-9S 30x24
11	CHURCH ST DETOUR →	D3-1 M4-9R 30x24
12	CHURCH ST DETOUR ←	D3-1 M4-9L 30x24
13	CHURCH ST DETOUR ENDS	D3-1 M4-8a 24x18
14	NORTH BOUND CHURCH ST CLOSED AT SOUTH UNIVERSITY	SPECIAL 48x60
15	CHURCH ST CLOSED	SPECIAL 48x60
16	DETOUR AHEAD W20-2 36"x36" CHURCH ST D3-1	W20-2 36"x36"
17	DO NOT ENTER R5-1 30"x30"	R5-1 30"x30"
18	WRONG WAY	R5-1A 42"x30"
19	ROAD CLOSED AHEAD W20-3 36"x36" CHURCH ST D3-1	W20-3 36"x36"



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
CHURCH STREET
DETOUR

SHEET No. **60 OF 136**

SCALE PLAN: 1" = 200'

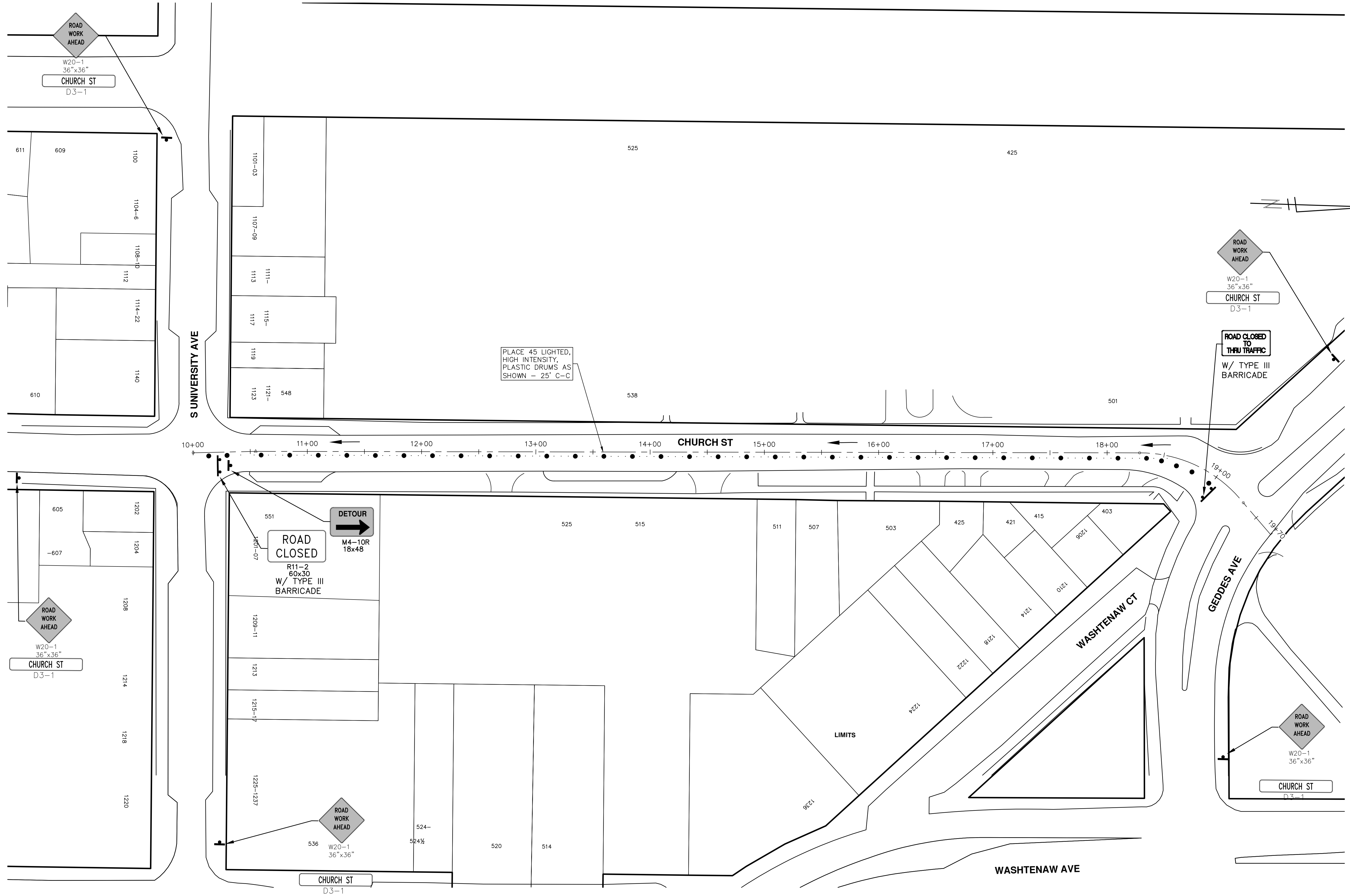
DRAWING No. **2017004-60**

811
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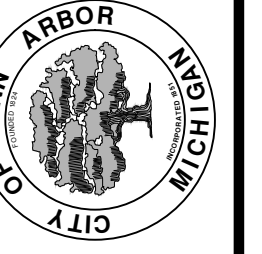
REV.	DATE	DESCRIPTION
01	03-24-17	AG.GS.RG
00	03-08-17	AG.GS.RG
		DRAWN
		CHECKED

S:\Project Management\Drafting\outocad\2017004\Plan Production\Major Streets\2017004 - Church Street TRFC.dwg Dwg Created: 20-Dec-16 - _a2 standard bw.stb - Plot Date: 27-Mar-17



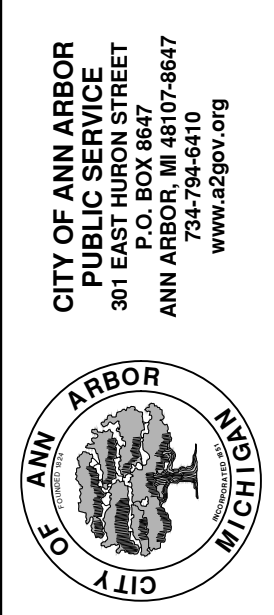
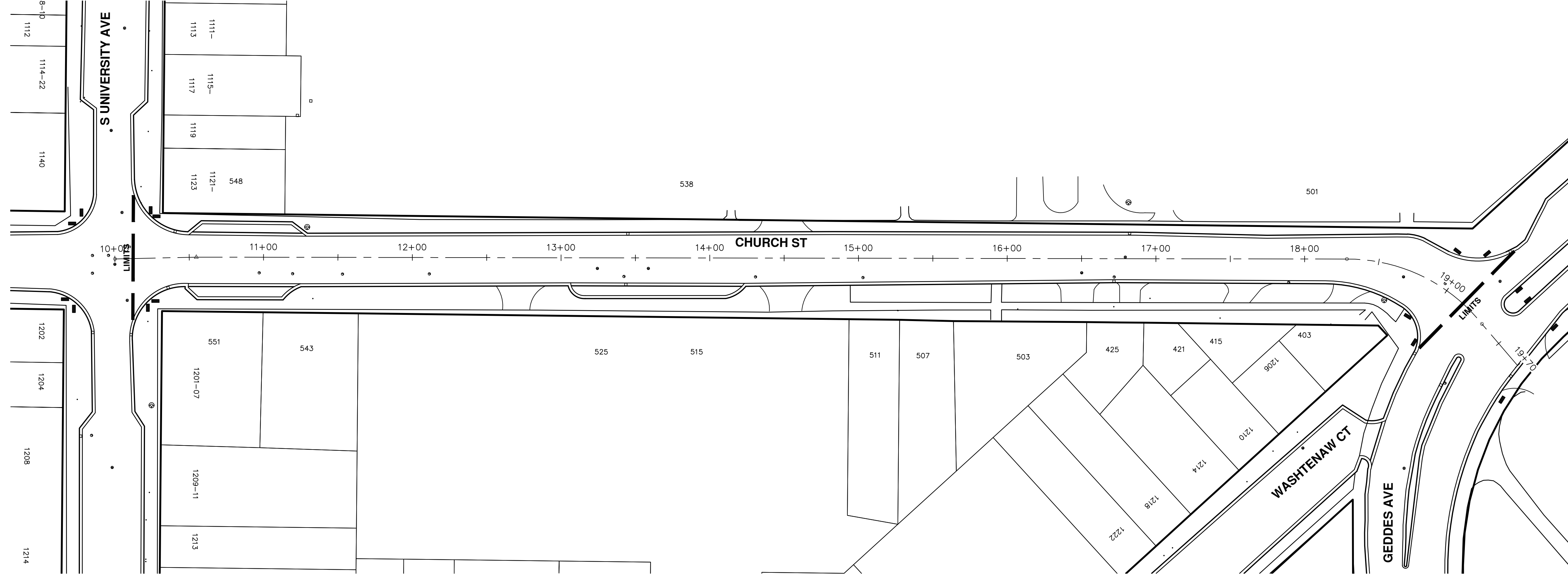
REV.	DATE	DRAWN	CHECKED	DESCRIPTION
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00	03-08-17	AG.GS.RG	DAD	BID SET

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 CHURCH STREET
 TRAFFIC CONTROL

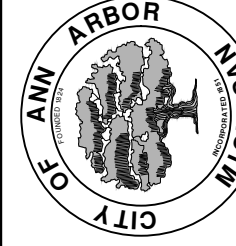
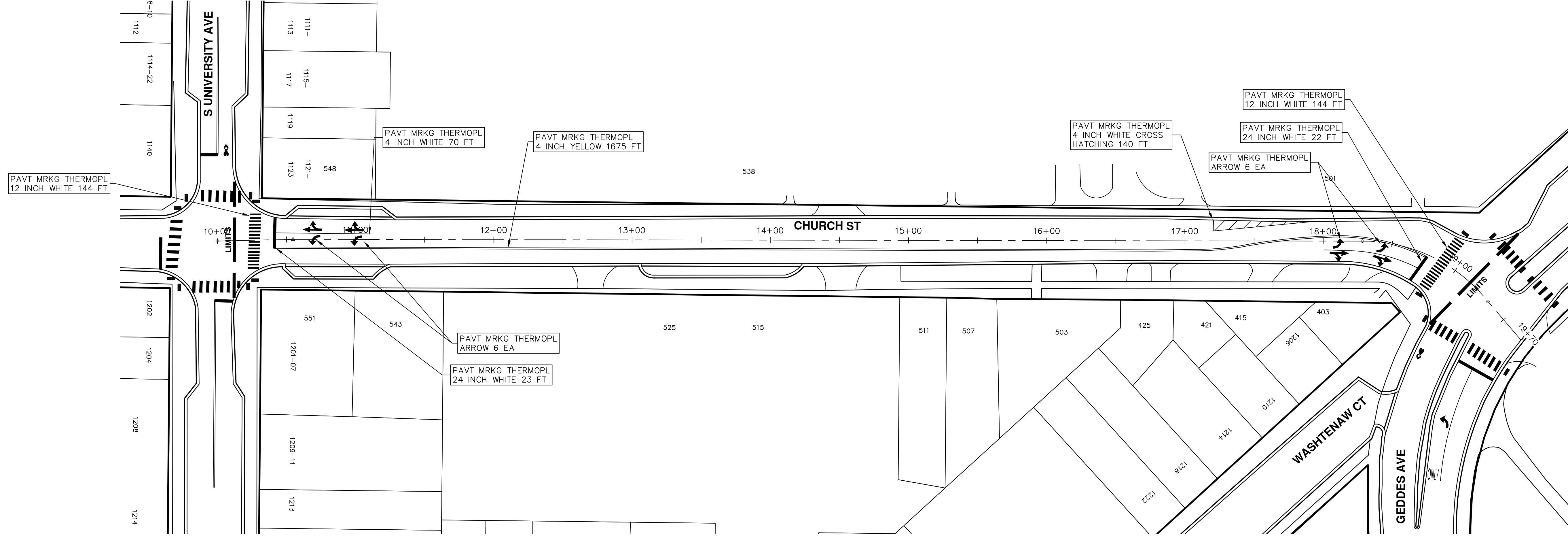
SCALE PLAN: 1" = 40'
 DRAWING No. 2017004-61



CITY OF ANN ARBOR
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 ANN ARBOR 734.794.4410
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - Church Street.dwg Dwg Created: 16-Dec-16 - _a2_standard.bw.stb - Plot Date: 27-Mar-17



CITY OF ANN ARBOR
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD





CITY OF ANN ARBOR PROJECT MANAGEMENT

LOCATION: GREEN ROAD NON-MOTORIZED PATH

ITB No. 4477 FILE No. 2017004



QUANTITIES			
Item Code	Item Description	Units	Quantity
2057011	Grading, Sidewalk	Syd	198.000
2057011	Machine Grading, Special	Syd	524.440
5010005	HMA Surface, Rem	Syd	839.270
8060040	Shared use Path, HMA	Ton	848.400
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
8120280	Plastic Drum, High Intensity, Lighted, Furn	Ea	70.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	70.000
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	161.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	161.000
8167011	Slope Restoration	Syd	2,304.000

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 •_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

CONSTRUCTION METHOD AND SEQUENCING

WORK ON THIS HMA PATH INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AS DIRECTED BY THE ENGINEER, AND UTILIZING A TWO (2) PHASE APPROACH TO CONSTRUCT THE PATH ON ONE SIDE OF THE ROADWAY AND THEN SUBSEQUENTLY ON THE OTHER SIDE. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER. COMPLETE ITEMS 7 THRU 9 UTILIZING THE M.O.T. PLAN CURRENTLY IN PLACE, LANE CLOSURES, AND FLAG CONTROL OPERATIONS AS DIRECTED BY THE ENGINEER.

PHASE I

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT PAVEMENT REMOVAL WORK.
- PLACE, GRADE, SHAPE AND COMPACT BASE MATERIAL AS REQUIRED.
- PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED.
- CLEAN PAVEMENT AND PLACE 3 INCH TOP COURSE HMA MIX (36A).

PHASE II

- REPEAT ITEMS 1 THRU 5 IN THE ORDER SHOWN ABOVE.
- PLACE, GRADE, SHAPE, AND COMPACT ANY EMBANKMENT MATERIAL AS REQUIRED
- COMPLETE ALL SLOPE RESTORATION.
- COMPLETE ANY MISCELLANEOUS WORK AND ALL CLEAN UP.
- REMOVE ALL TRAFFIC CONTROL DEVICES, AND MISS DIG FLAGS.

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
11.0	D3-1	Street Name Sign	4.000	44.000
1.0	W4-2 (R)	Right Lane Ends Sign	9.000	9.000
1.0	W9-3 (R)	Right Lane Closed Ahead Sign	9.000	9.000
11.0	W20-1	Road Work Ahead Sign	9.000	99.000
TOTAL				161.000

NOTES

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

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

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



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

ANNUAL STREET RESURFACING - 2017

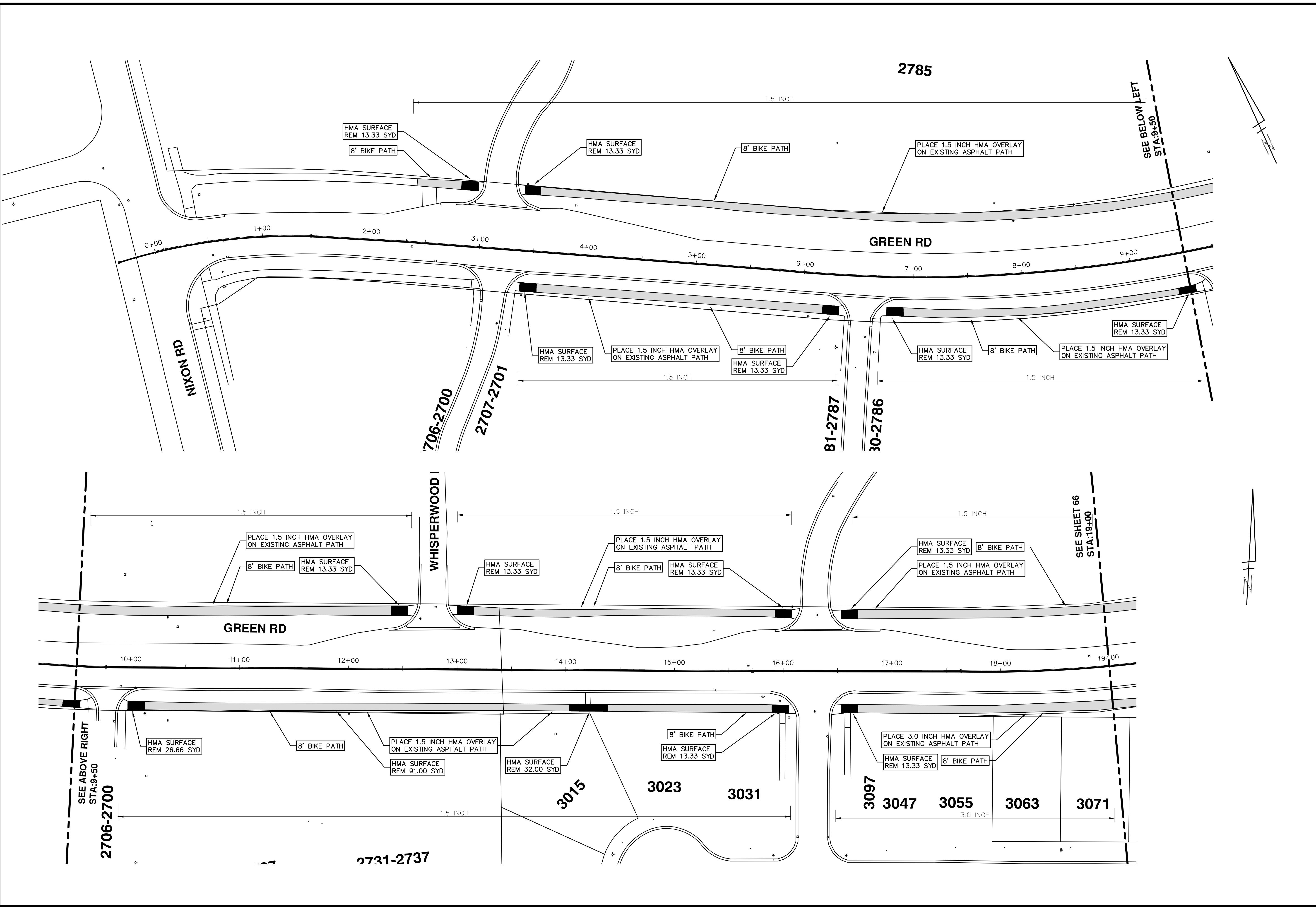
GREEN ROAD NON-MOTORIZED PATH

DRAWING No. 2017004-64

SHEET No.

64 OF 136

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - Green Road Non-motorized Path.dwg Dwg Created: 20-Jan-17 - _a2 standard bw.stb - Plot Date: 27-Mar-17



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

ANNUAL STREET RESURFACING - 2017

GREEN ROAD NON-MOTORIZED PATH

SCALE PLAN: 1" = 40'

DRAWING No. 2017004-65

SHEET No. 65 OF 136

STA. 0+00 - STA. 19+00

SEE SHEET 66 STA:19+00

SEE BELOW LEFT STA:9+50

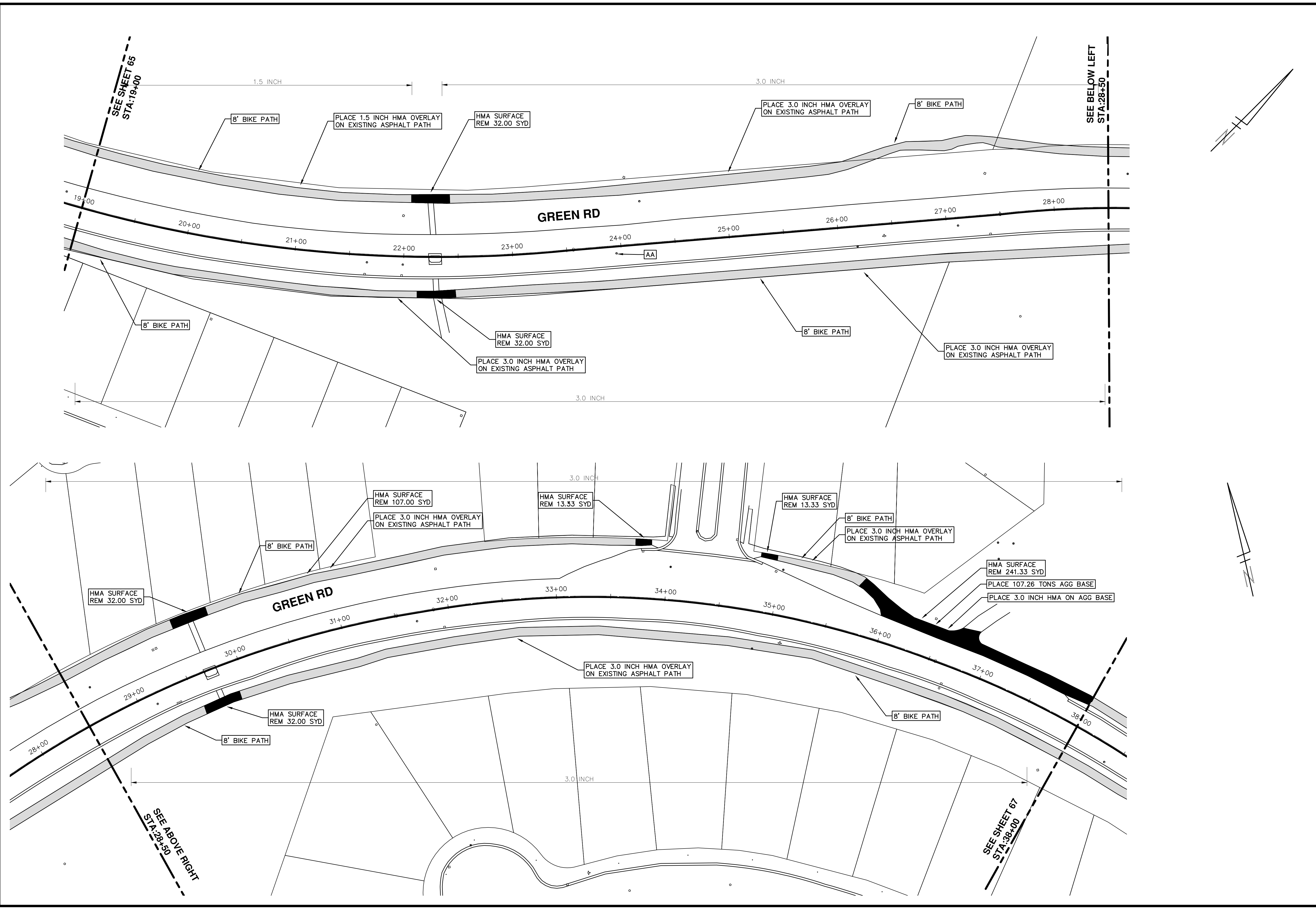
SEE ABOVE RIGHT STA:9+50

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD

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 ANN ARBOR: 734-794-4410
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 GREEN ROAD NON-MOTORIZED PATH
 STA. 19+00 - STA. 38+00

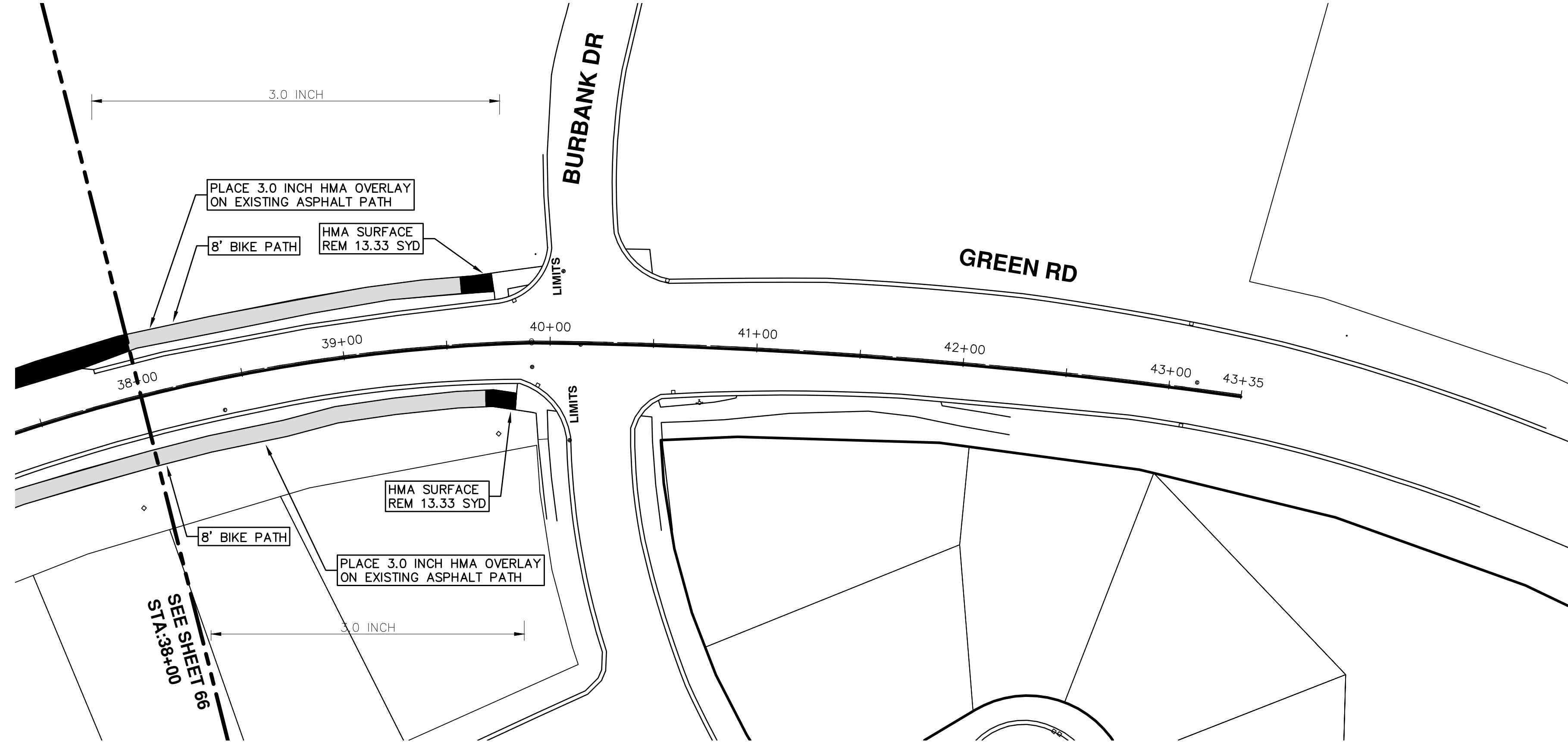
811
 Know what's below.
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REV.	DATE	DESCRIPTION
01	03-24-17	AG.GS.RG
00	03-08-17	AG.GS.RG

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 ANN ARBOR: 734.794.4410
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SCALE PLAN: 1" = 40'
 DRAWING No. 2017004-66

SHEET No. 66 OF 136



SCALE PLAN: 1" = 40'
DRAWING No. 2017004-67

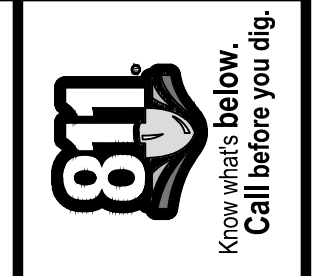
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 GREEN ROAD NON-MOTORIZED PATH
 STA. 38+00 - STA. 43+35



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REV.	DESCRIPTION
01	ADDENDUM #1
00	BID SET

DATE	DRAWN	CHECKED
03-08-17	AG.GSRG	DAD
03-24-17	AG.GSRG	DAD





CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: HILL STREET

ITB No. 4477 FILE No. 2017-004

CONSTRUCTION METHOD AND SEQUENCING

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

PHASE I

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT AREA, INCLUDING GATE AND MONUMENT BOXES WITH EXCEPTION TO THE SEGMENT BETWEEN N INGALLS STREET AND GLEN AVENUE, WHICH STRUCTURES SHALL COLDMILLED AROUND.
- REMOVE 4 INCHES OF EXISTING HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
- PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2 INCH LEVELING COURSE HMA MIX (LVSP).

PHASE II

- REPEAT ITEMS 1 THRU 9 IN THE ORDER SHOWN ABOVE.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE HMA APPROACHES AS REQUIRED.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- 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 THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

QUANTITIES			
Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	5,000
2030015	Sewer, Rem, Less than 24 inch	Ft	50,000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	565,000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	89,000
2057011	Grading, Driveway Approach	Syd	16,000
2057011	Grading, Sidewalk	Syd	23,000
2057011	Grading, Sidewalk Ramp	Syd	50,000
2057011	Machine Grading, Special	Syd	5,353,000
2057021	Subgrade Undercutting, Type IIA	Cyd	495,000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	16,000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	50,000
4030200	Dr Structure, 24 inch dia	Ea	5,000
4037050	Dr Structure Cover, Type B, Modified	Ea	15,000
4030050	Dr Structure Cover, Type K, Modified	Ea	5,000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	21,000
4037050	Dr Structure, Temp Lowering, Modified	Ea	19,000
5010003	Cold Milling HMA Surface	Ton	1,210,000
5010005	HMA Surface, Rem	Syd	143,000
5010061	HMA, Approach	Ton	93,000
5010703	HMA, LVSP	Ton	1,210,000
5017031	Cold Milling for Curb Reveal	Ton	4,000
5017050	HMA Surface, Around Structure Cover, Rem	Ea	14,000
6027021	Flowable Fill	Cyd	20,926
6030005	Cement	Ton	2,000
8017011	Driveway, Nonrein Conc, 6 inch, Modified	Syd	16,000
8027001	Curb and Gutter, Conc	Ft	577,000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	139,000
8037001	Detectable Warning Surface, Modified	Ft	10,000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	442,000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	200,000
8110049	Pav Mrg, Ovy Cold Plastic, Direction Arrow Sym, Bike	Ea	5,000
8110058	Pav Mrg, Ovy Cold Plastic, Bike, Small Sym	Ea	5,000
8110079	Pav Mrg, Ovy Cold Plastic, Sharrow Symbol	Ea	1,000
8110520	Pav Mrg, Wet Retrflec, Thermopl, 4 inch, White	Ft	2,400,000
8110521	Pav Mrg, Wet Retrflec, Thermopl, 6 inch, White	Ft	2,261,000
8117001	Pav Mrg, Wet Retrflec, Thermopl, 6 inch, Crosswalk	Ft	130,000
8117001	Pav Mrg, Wet Retrflec, Thermopl, 24 inch, Stop Bar	Ft	64,000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	5,000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	5,000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	60,000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	60,000
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	258,000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	258,000
8127050	No Parking Sign	Ea	6,000
8167011	Slope Restoration	Syd	208,000
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, Nonrein Conc, 8 inch, Modified • Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement
CHE	• Driveway, Nonrein Conc, 6 inch, Modified • Driveway, Nonrein Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Dr Structure, Rem
DS	• Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet
PT	• Dr Structure, Point
RRA	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
21.0	D3-1	Street Name Sign	4,000	84,000
1.0	M4-10R	Detour Arrow (Right) Sign	6,000	6,000
1.0	M4-8a	End Detour Sign	3,000	3,000
3.0	M4-9L	Detour Sign (w/Left Arrow)	5,000	15,000
4.0	M4-9R	Detour Sign (w/Right Arrow)	5,000	20,000
5.0	M4-9S	Detour Sign (w/Thru Arrow)	5,000	25,000
2.0	R5-1	Do Not Enter Sign	6,250	12,500
2.0	R5-1A	Wrong Way Sign	6,000	12,000
3.0	R11-2	Road Closed Sign ("Road Closed")	8,000	24,000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12,500	12,500
2.0	R3-1	Movement Prohibition Sign ("No Right Turn")	4,000	8,000
20.0	R3-2	Movement Prohibition Sign ("No Left Turn")	5,000	100,000
2.0	R6-1L	One Way (Left) Sign	3,000	6,000
4.0	R6-1R	One Way (Right) Sign	3,000	12,000
7.0	SP-1	Special Sign	20,000	140,000
9.0	W20-1	Road Work Ahead Sign	9,000	81,000
1.0	W20-2	Detour Ahead	9,000	9,000
2.0	W20-3	Road Closed Ahead	9,000	18,000
TOTAL			588,000	



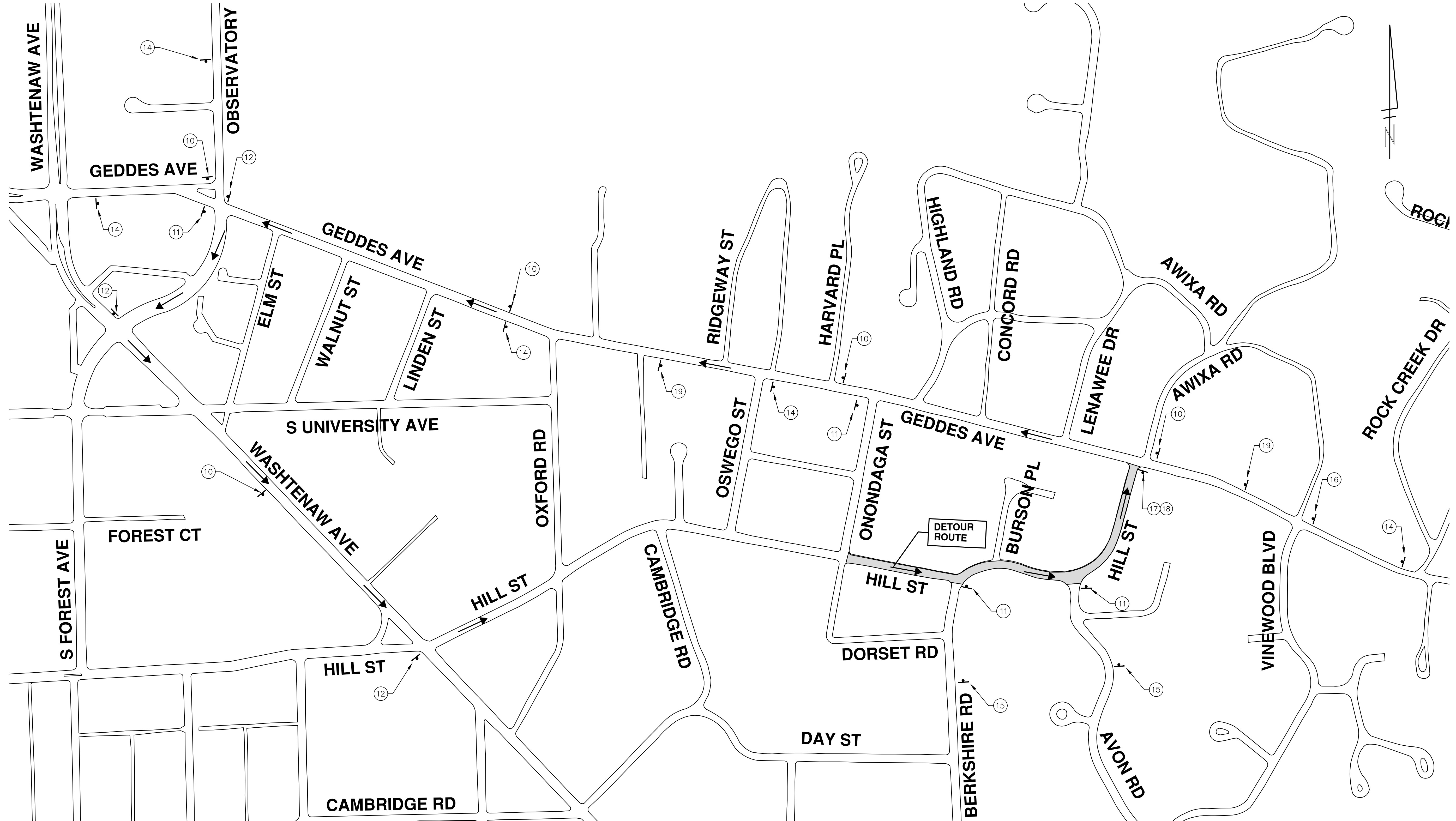
PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
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734-794-6410 www.a2gov.org

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
HILL STREET
DRAWING No. 2017004-68

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TRAFFIC CONTROL SIGN										
TAG	SIGN	NUM.								
10	HILL ST. DETOUR ↑	D3-1 M4-9S 30x24	12	HILL ST. DETOUR ←	M4-9L 30x24	14	WEST BOUND HILL ST CLOSED AT GEDDES AVE	SPECIAL 48x60	16	DETOUR AHEAD W20-2 36"x36"
11	HILL ST. DETOUR →	D3-1 M4-9R 30x24	13	HILL ST. DETOUR ENDS	D3-1 M4-8g 24x18	15	WEST BOUND HILL ST CLOSED	SPECIAL 48x60	17	DO NOT ENTER R5-1 30"x30"
									18	WRONG WAY R5-1A 42"x30"
									19	ROAD CLOSED AHEAD W20-3 36"x36" HILL ST. D3-1

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
HILL STREET
DETOUR

SHEET No. 69 OF 136

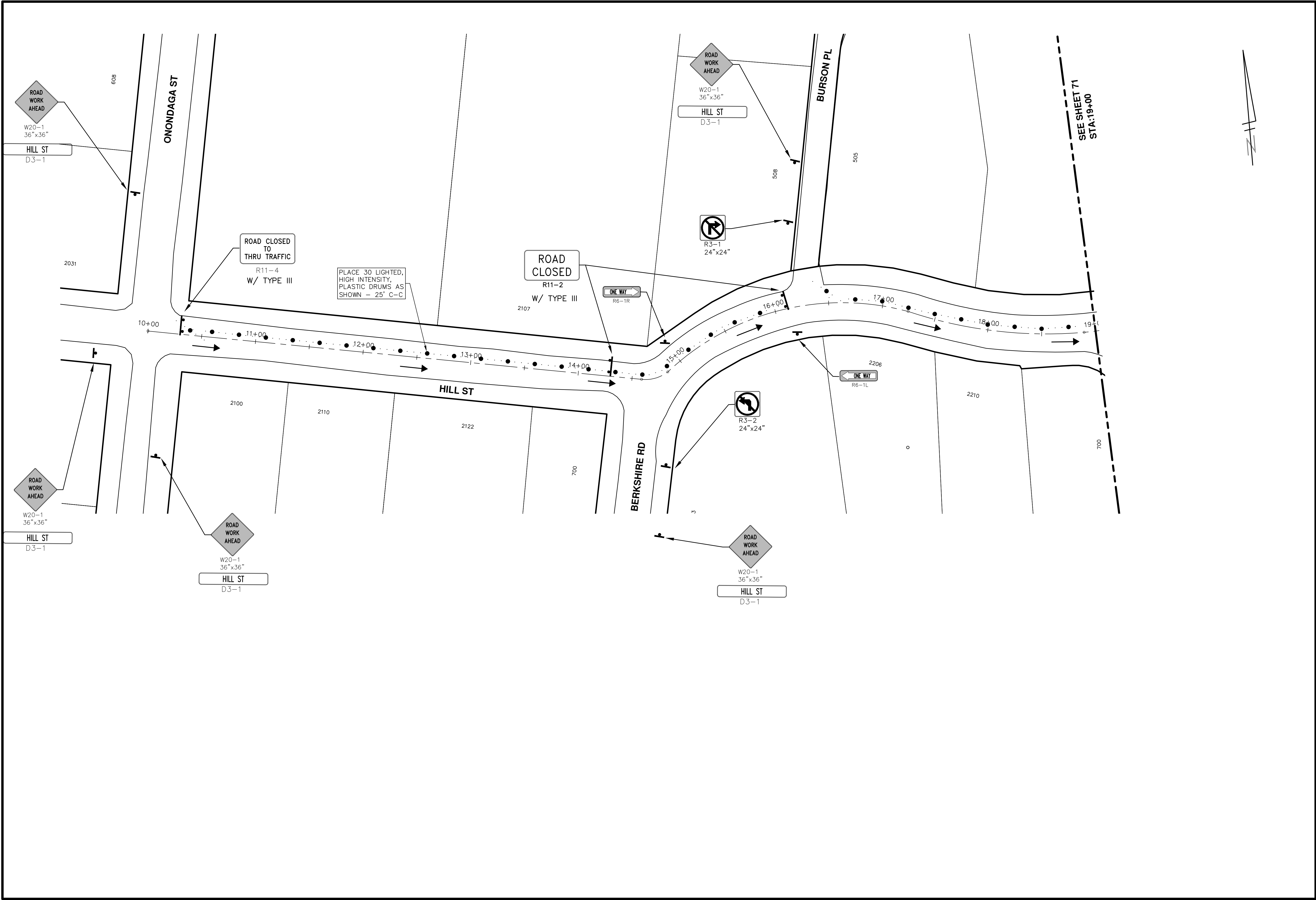
811
Know what's below.
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REV.	DATE	DRAWN	CHECKED
01	03-24-17	AG.GS.RG	DAD
00	03-08-17	AG.GS.RG	DAD

DESCRIPTION

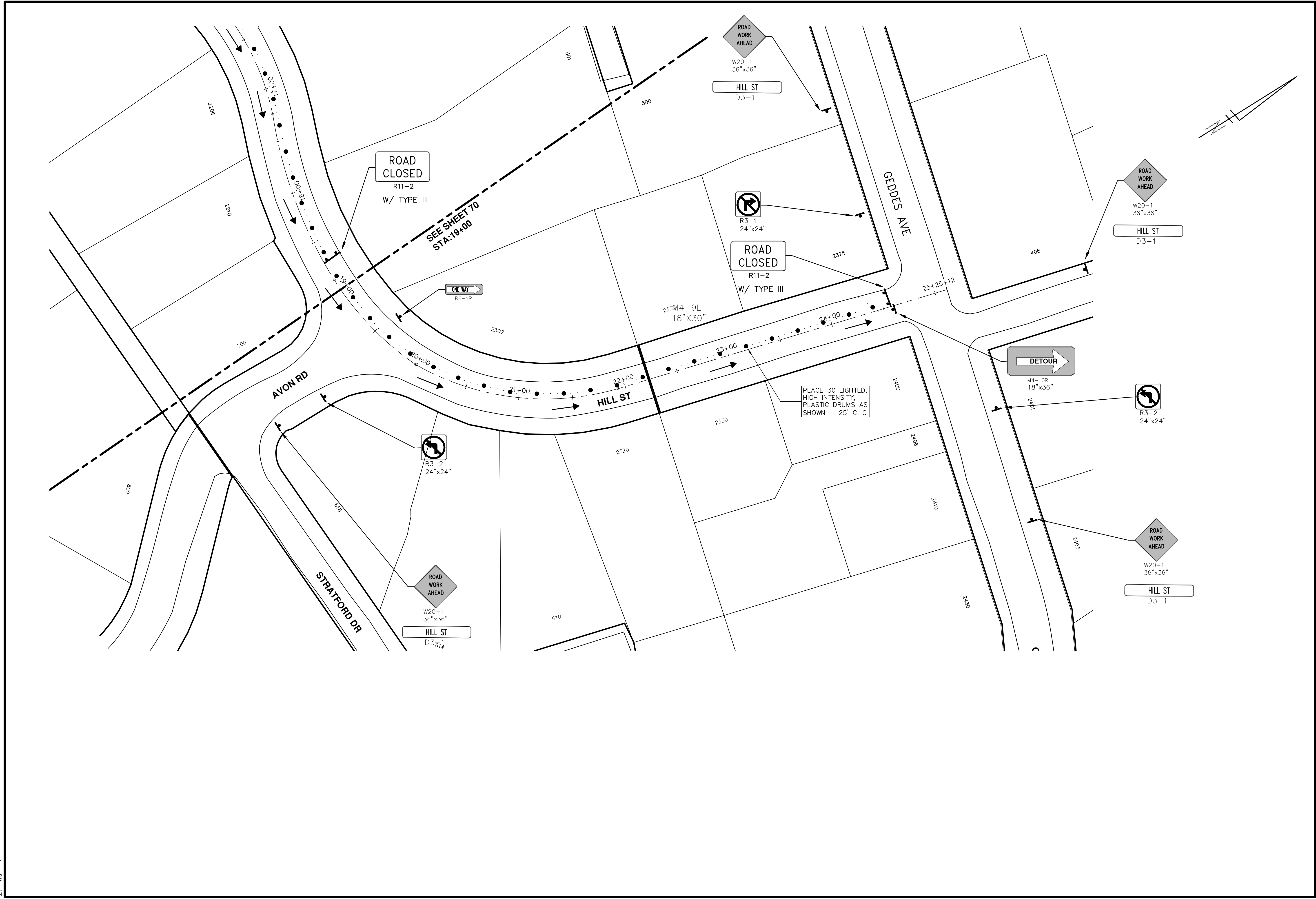
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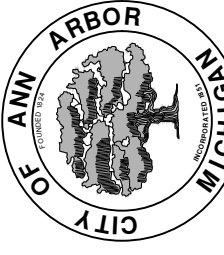
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR			ANNUAL STREET RESURFACING - 2017											
SCALE PLAN: 1" = 40'			HILL STREET											
DRAWING No. 2017004-70			TRAFFIC CONTROL											
SHEET No. 70 OF 136														
CITY OF ANN ARBOR PUBLIC SERVICE 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 www.a2gov.org		<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>01</td> <td>03-24-17</td> <td>AG.GS.RG</td> </tr> <tr> <td>00</td> <td>03-08-17</td> <td>AG.GS.RG</td> </tr> </table>				REV.	DATE	DESCRIPTION	01	03-24-17	AG.GS.RG	00	03-08-17	AG.GS.RG
REV.	DATE	DESCRIPTION												
01	03-24-17	AG.GS.RG												
00	03-08-17	AG.GS.RG												
<p>Know what's below. Call before you dig.</p>														

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01	ADDENDUM #1	AG.GS.RG	DAD
00	BID SET	AG.GS.RG	DAD
	DATE	DRAWN	CHECKED
	DESCRIPTION		
	REV.		

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 ANN ARBOR: 734.794.4410
 www.a2gov.org

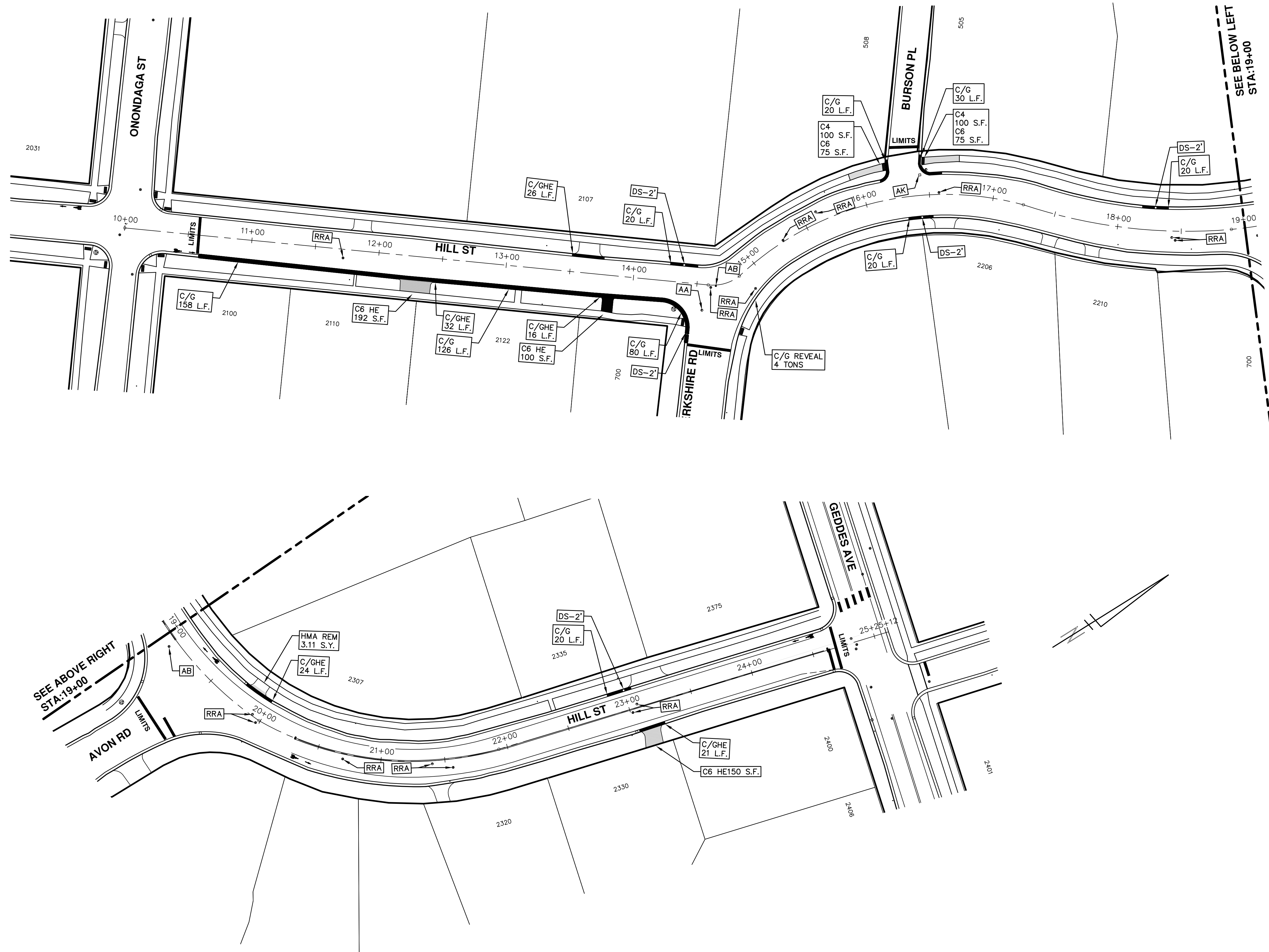


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 HILL STREET
 TRAFFIC CONTROL

SCALE PLAN: 1" = 40'
 DRAWING No. 2017004-71

SHEET No. 71 OF 136

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SEE ABOVE RIGHT
STA: 19+00

SEE BELOW LEFT
STA: 19+00



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD

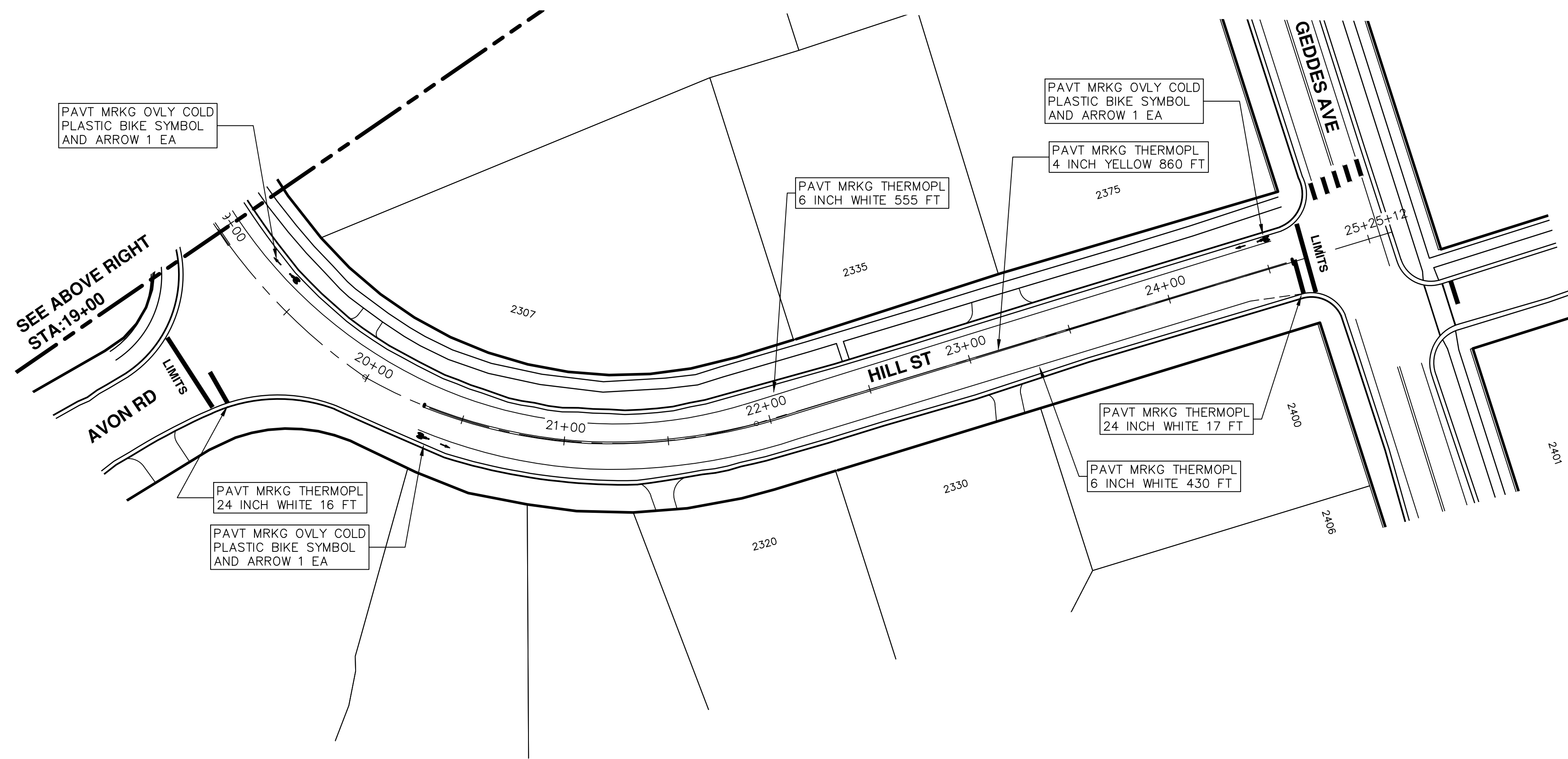
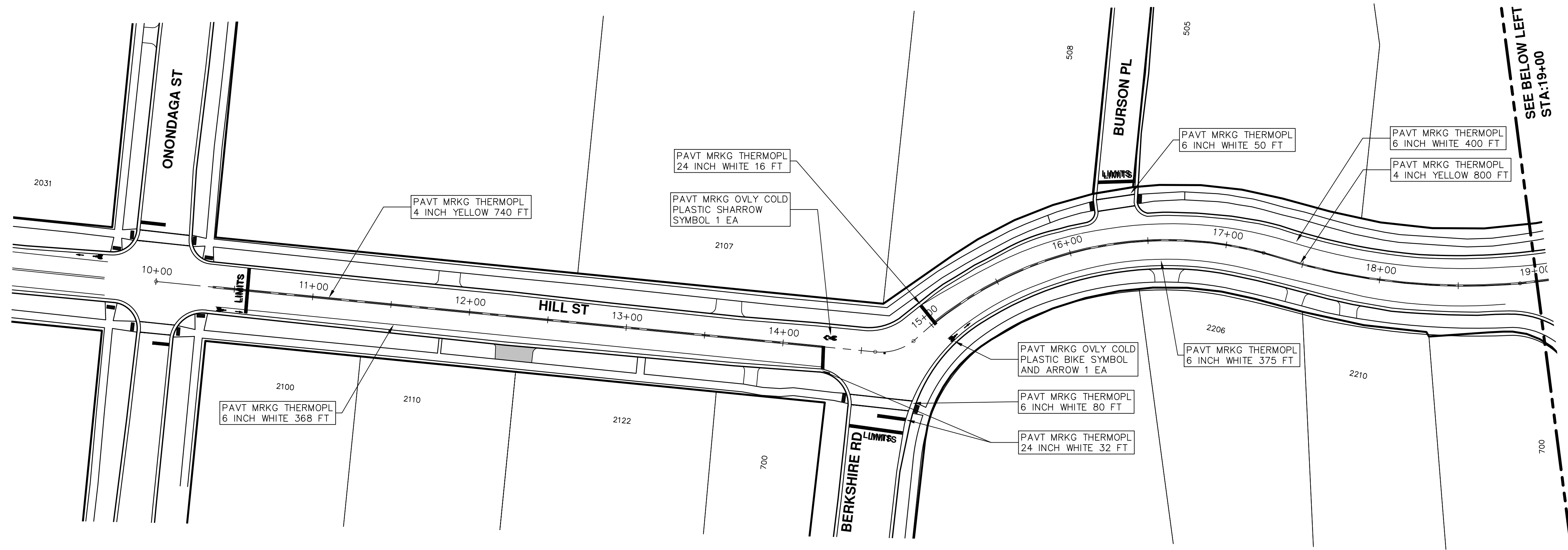
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
HILL STREET
STA. 10+00 - STA. 25+12

SHEET No. **72 OF 136**
SCALE PLAN: 1"=80'
DRAWING No. **2017004-72**

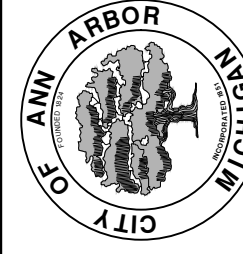
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GSRG	DAD
00	BID SET	03-08-17	AG.GSRG	DAD

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
HILL STREET
PAVEMENT MARKINGS

SCALE PLAN: 1"=80'
DRAWING No. 2017004-73



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: MILLER AVENUE

ITB No. 4477 FILE No. 2017-004

QUANTITIES			
Item Code	Item Description	Units	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	692.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	200.000
2057011	_Grading, Sidewalk	Syd	6.000
2057011	_Grading, Sidewalk Ramp	Syd	17.000
2057021	_Subgrade Undercutting, Type IIA	Cyd	188.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	7.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	1.000
5010003	Cold Milling HMA Surface	Ton	1,275.000
5010005	HMA Surface, Rem	Syd	16.000
5010057	HMA, SE3	Ton	1,275.000
5017050	_HMA Surface, Around Structure Cover, Rem	Ea	4.000
6027021	_Flowable Fill	Cyd	25.630
6030005	Cement	Ton	1.000
8027001	_Curb and Gutter, Conc	Ft	50.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	20.000
8037001	_Detectable Warning Surface, Modified	Ft	5.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	150.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	50.000
8050020	Curb Vertical, HMA	Ft	622.000
8110520	Pav Mrkg, Wet Refllec, Thermopl, 4 inch, White	Ft	4,735.000
8110524	Pav Mrkg, Wet Refllec, Thermopl, 4 inch, Yellow	Ft	5,068.000
8117001	_Pav Mrkg, Wet Refllec, Thermopl, 12 inch, Crosswalk	Ft	240.000
8117001	_Pav Mrkg, Wet Refllec, Thermopl, 24 inch, Stop Bar	Ft	70.000
8117050	_Pav Mrkg, Wet Refllec, Thermopl, Only	Ea	3.000
8117050	_Pav Mrkg, Wet Refllec, Thermopl, Thru Arrow Sym	Ea	2.000
8117050	_Pav Mrkg, Wet Refllec, Thermopl, Lt Turn Arrow Sym	Ea	1.000
8117050	_Pav Mrkg, Wet Refllec, Thermopl, Rt Turn Arrow Sym	Ea	1.000
8117050	_Pav Mrkg, Wet Refllec, Thermopl, Thru Arrow Sym	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	7.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	7.000
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	140.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	140.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	2.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	407.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	407.500
8127050	_No Parking Sign	Ea	41.000
8167011	_Slope Restoration	Syd	254.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • _Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Dr Structure, Rem
DS	• Sewer, Rem, Less than 24 inch • _Dr Structure, 24 inch dia • _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

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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
17.0	D3-1	Street Name Sign	4.000	68.000
1.0	M4-10R	Detour Arrow Sign	6.000	6.000
1.0	M4-8a	End Detour Sign	3.000	3.000
1.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	5.000
2.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	10.000
4.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	20.000
2.0	R5-1	Do Not Enter Sign	6.250	12.500
2.0	R5-1A	Wrong Way Sign	6.000	12.000
6.0	R11-2	Road Closed Sign ("Road Closed")	10.000	60.000
2.0	R3-1	Movement Prohibition Sign ("No Right Turn")	4.000	8.000
3.0	R3-2	Movement Prohibition Sign ("No Left Turn")	4.000	12.000
1.0	R6-1 L	One Way (Left) Sign	3.000	3.000
3.0	R6-1R	One Way (Right) Sign	3.000	9.000
4.0	SP-1	Special Sign	20.000	80.000
7.0	W20-1	Road Work Ahead Sign	9.000	63.000
2.0	W20-2	Detour Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
TOTAL				407.50

CONSTRUCTION METHOD AND SEQUENCING

WORK ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AS DIRECTED BY THE ENGINEER, AND UTILIZING PART WIDTH TWO (2) PHASE CONSTRUCTION. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER. COMPLETE ITEMS 12 THRU 14 UTILIZING THE M.O.T. PLAN CURRENTLY IN PLACE, LANE CLOSURES, AND FLAG CONTROL OPERATIONS AS DIRECTED BY THE ENGINEER.

PHASE I

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION.
- REMOVE 2 INCHES OF EXISTING HMA SURFACE BY COLDMILLING.
- PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (MAJOR STREETS).

PHASE II

- REPEAT ITEMS 1 THRU 6 IN THE ORDER SHOWN SHOWN ABOVE.
- REMOVE 2 INCHES OF EXISTING HMA SURFACE BY COLDMILLING.
- PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (MAJOR STREETS).
- CLEAN PAVEMENT AND PLACE HMA APPROACHES AS REQUIRED.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- 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 THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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

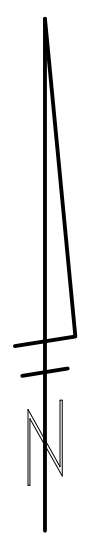


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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
MILLER AVENUE
DRAWING No. 2017004-74



TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
10	MILLER AVE DETOUR UP	D3-1 M4-9S 30x24
11	MILLER AVE DETOUR RIGHT	D3-1 M4-9R 30x24
12	MILLER AVE DETOUR LEFT	D3-1 M4-9L 30x24
13	MILLER AVE DETOUR ENDS	D3-1 M4-8a 24X18
14	WEST BOUND MILLER AVE CLOSED AT MAPLE RD	SPECIAL 48x60
15	WEST BOUND MILLER AVE CLOSED	SPECIAL 48x60
16	DETOUR AHEAD W20-2 36"x36" MILLER AVE D3-1	W20-2 36"x36"
17	DO NOT ENTER R5-1 30"x30"	R5-1 30"x30"
18	WRONG WAY	R5-1A 42"x30"
19	ROAD CLOSED AHEAD W20-3 36"x36" MILLER AVE D3-1	W20-3 36"x36"

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
MILLER AVENUE
DETOUR

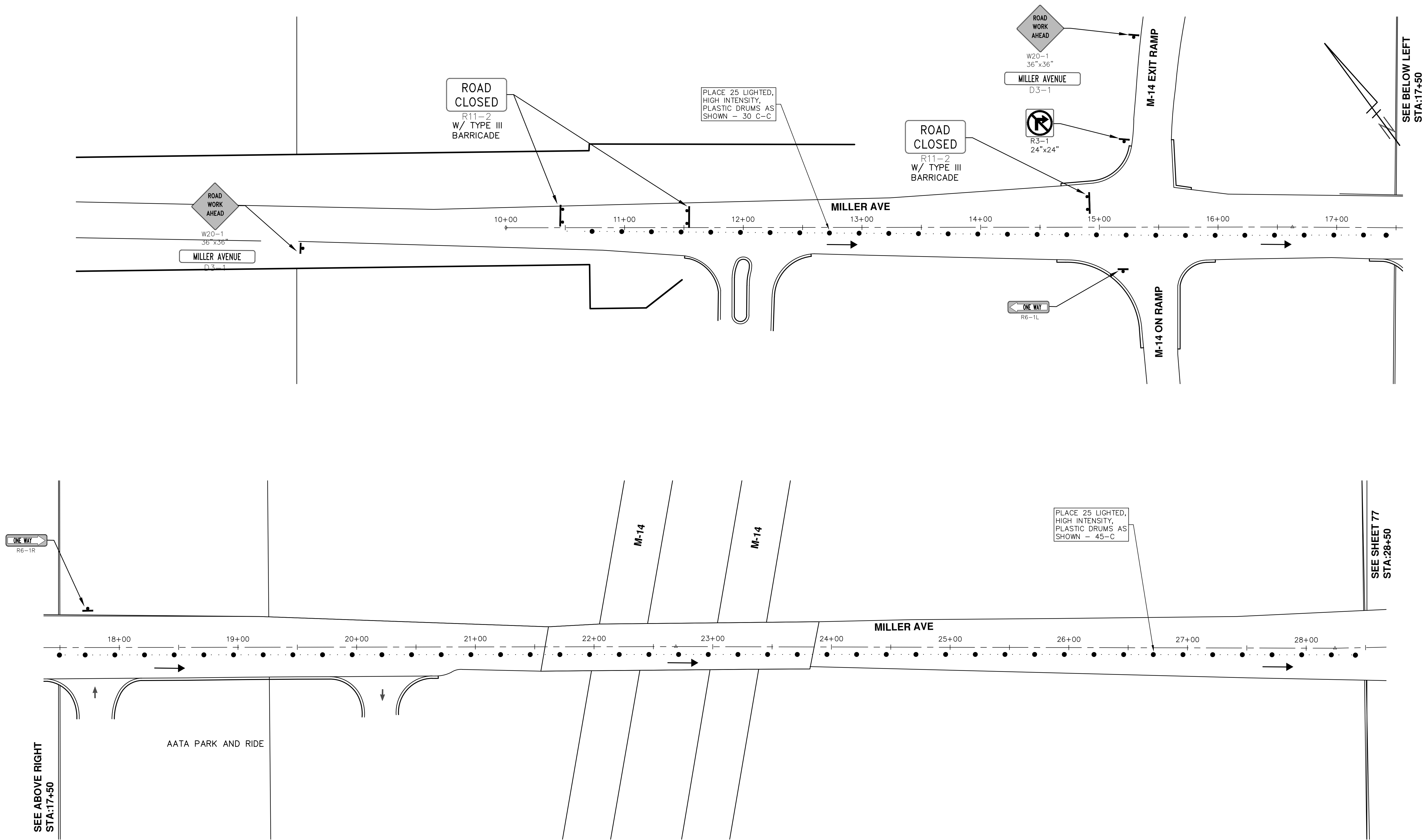
SCALE PLAN: 1" = 200'
DRAWING No. 2017004-75

SHEET No. 75 OF 136

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ADDENDUM #1	BID SET	DATE	DESCRIPTION	REV.
01	00	03-08-17		
			DRAWN	CHECKED
			DAD	CHECKED



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 MILLER AVENUE
 TRAFFIC CONTROL

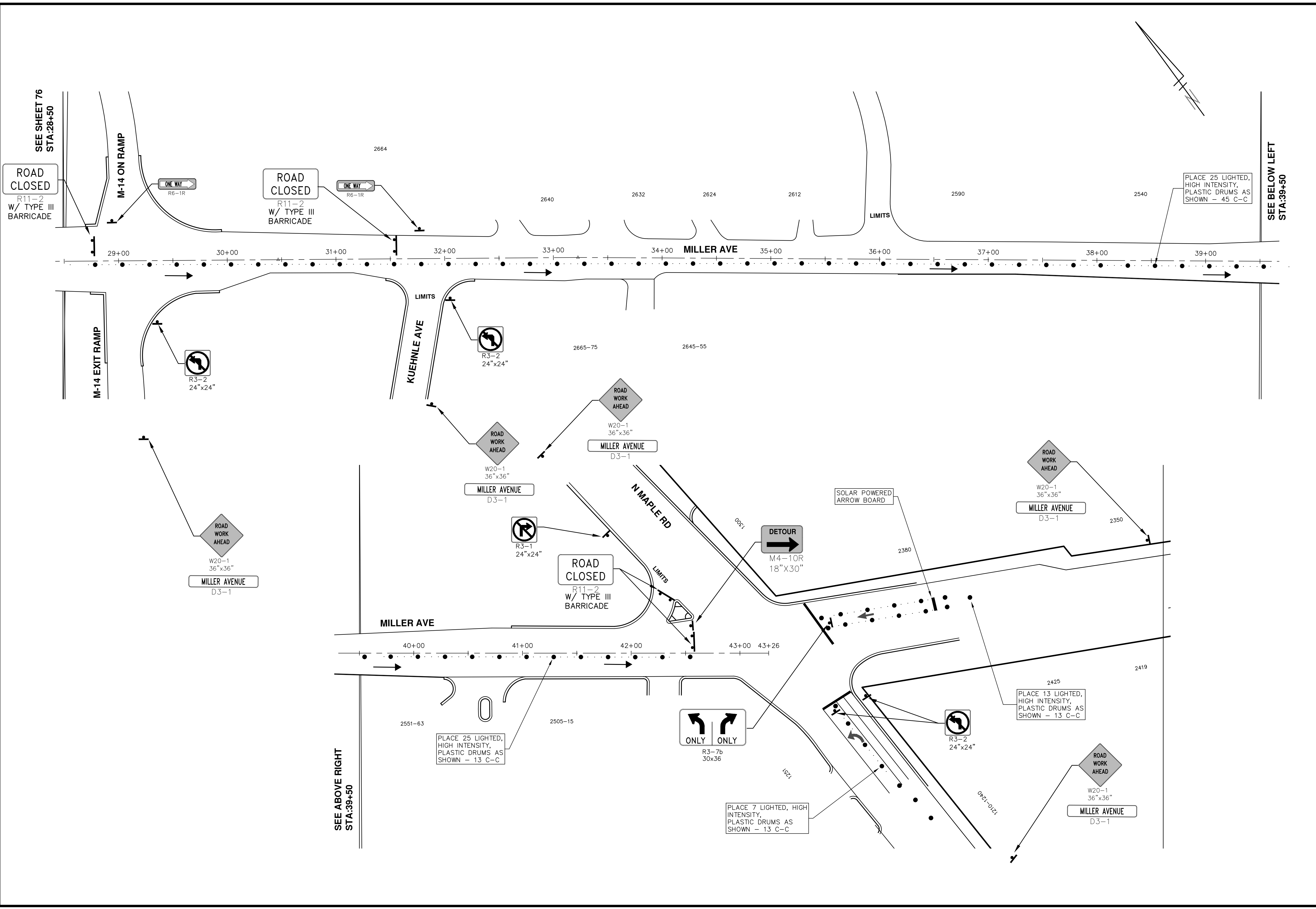
SCALE PLAN: 1" = 40'
 DRAWING No. 2017004-76

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

REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	03-24-17	AG.GS.RG	DAD	
00	03-08-17	AG.GS.RG	DAD	

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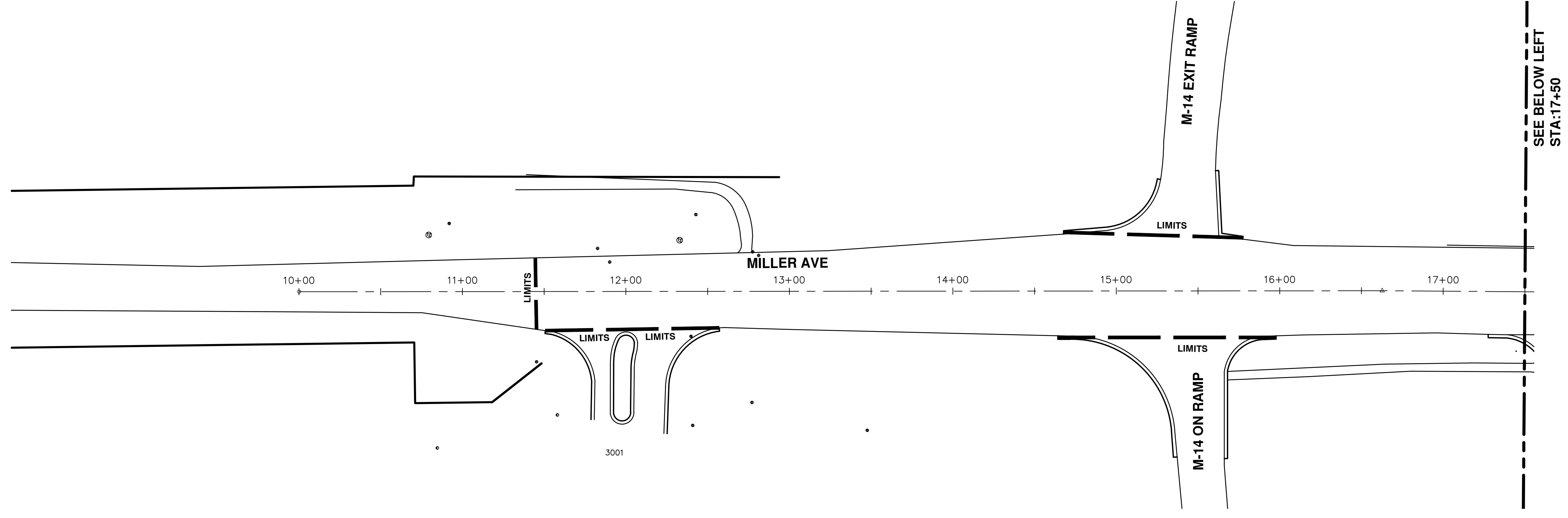
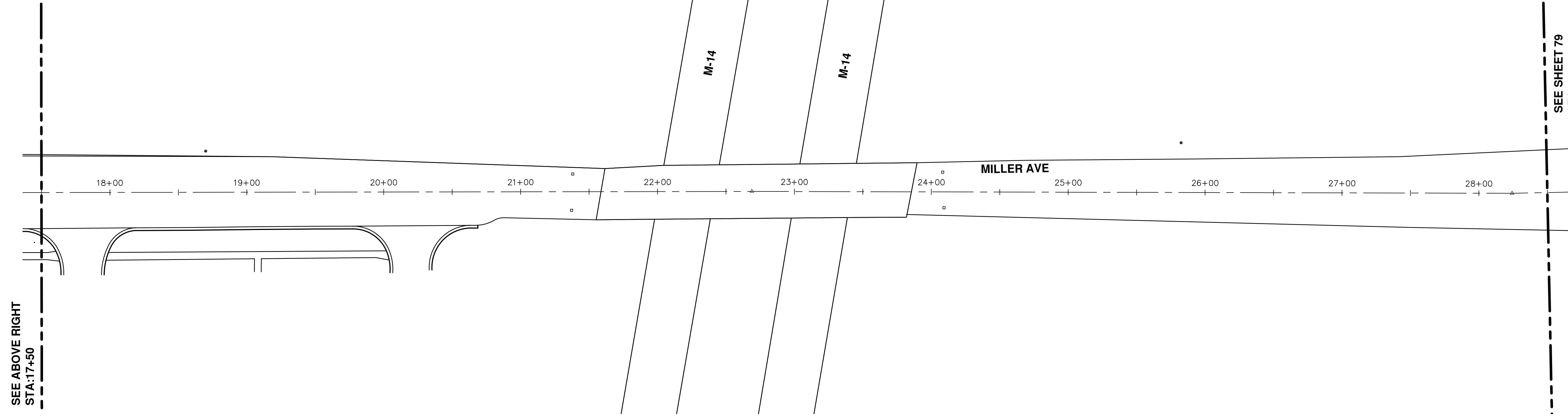
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 MILLER AVENUE
 TRAFFIC CONTROL

SCALE PLAN: 1" = 40'
 DRAWING No. 2017004-77

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

REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	03-24-17	AG.GS.RG	DAD	DAD
00	03-08-17	AG.GS.RG	DAD	DAD

CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-6647
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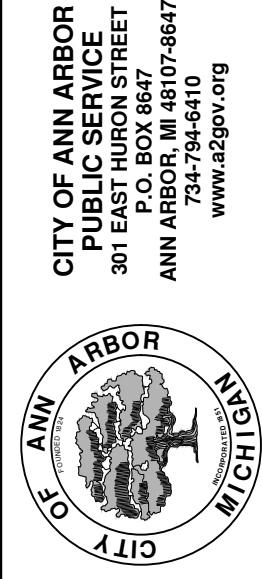
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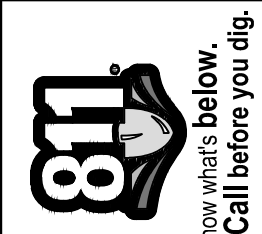
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
MILLER AVENUE
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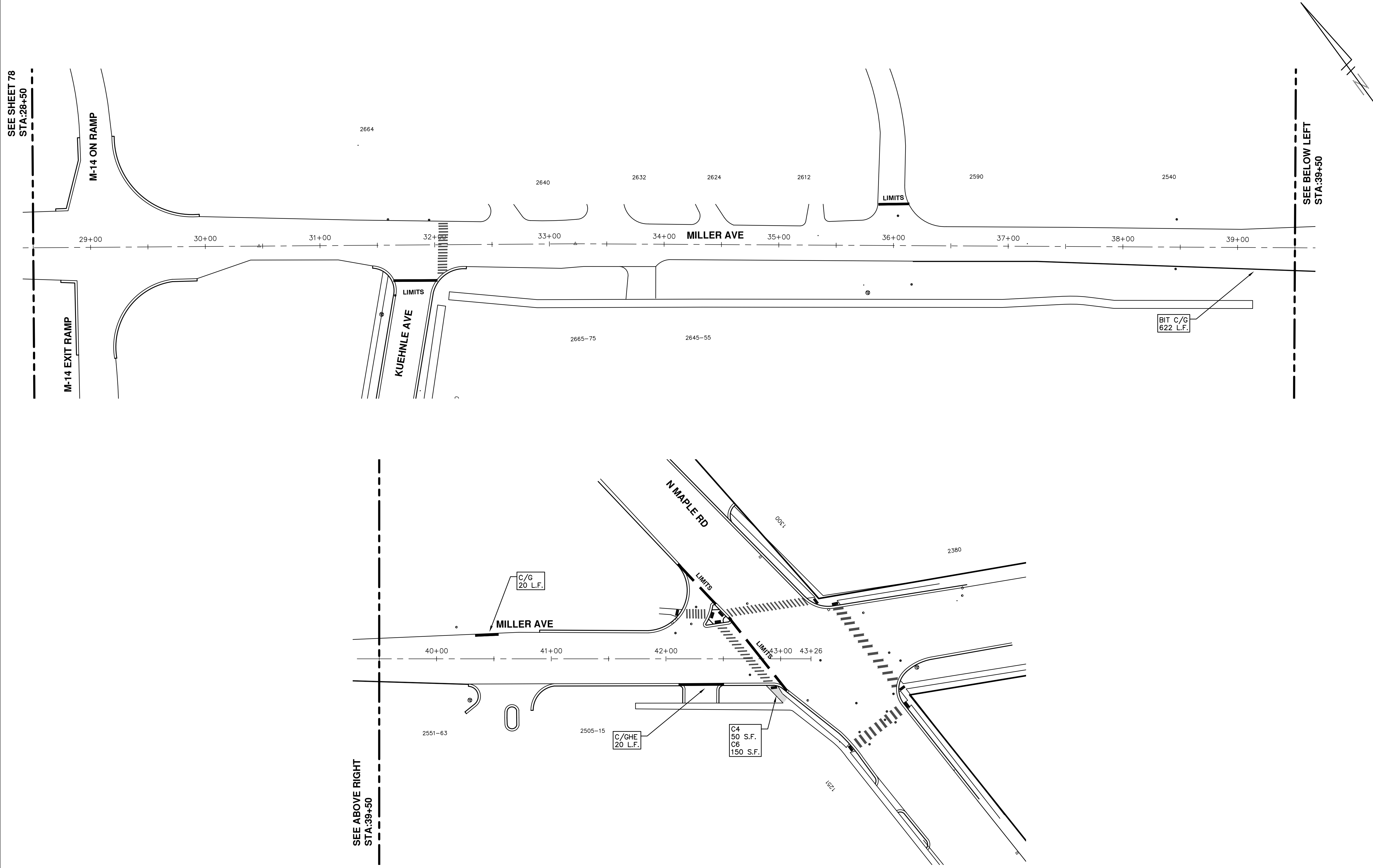
SCALE PLAN: 1"=80'
DRAWING No. 2017004-78

SHEET No. 78 OF 136



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD





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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
MILLER AVENUE
STA. 28+50 - STA. 43+26

SHEET No. **79 OF 136**

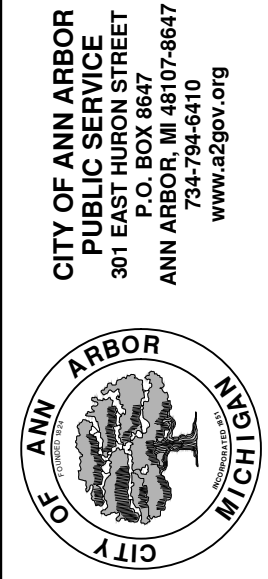
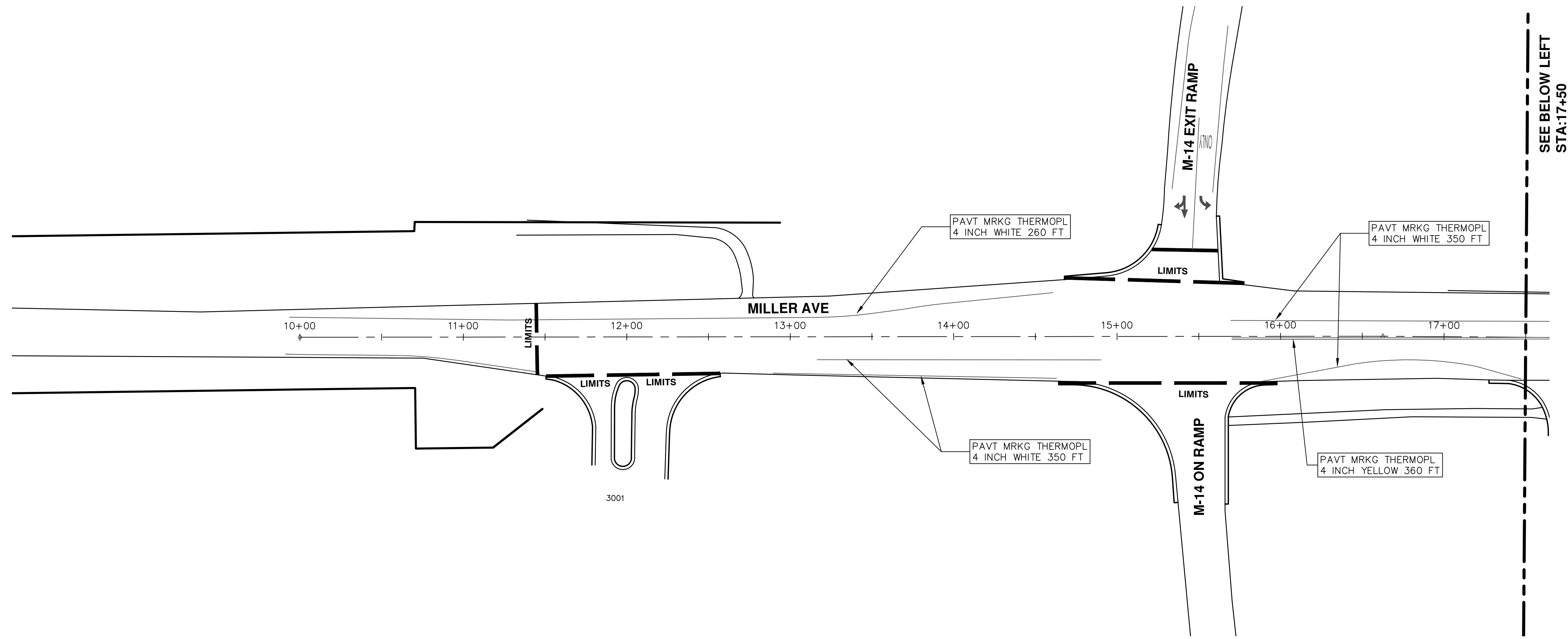
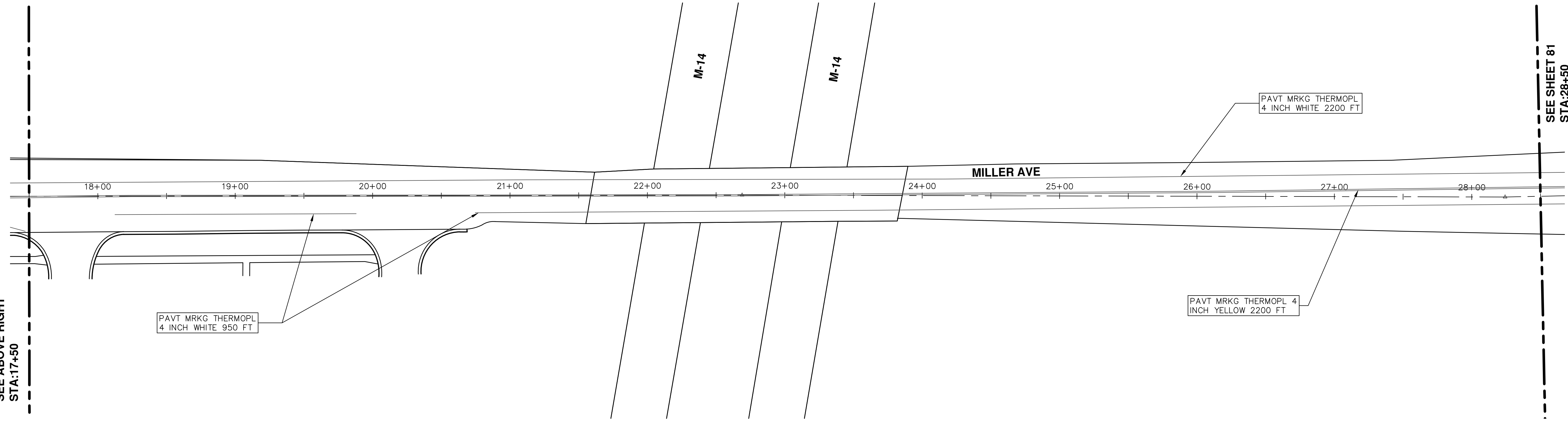
811
Know what's below.
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD

CITY OF ANN ARBOR
PUBLIC SERVICE
301 EAST HURON STREET
ANN ARBOR, MI 48106-6647
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S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - Miller Avenue.dwg Dwg Created: 20-Dec-16 - _a2 standard bw.stb - Plot Date: 27-Mar-17

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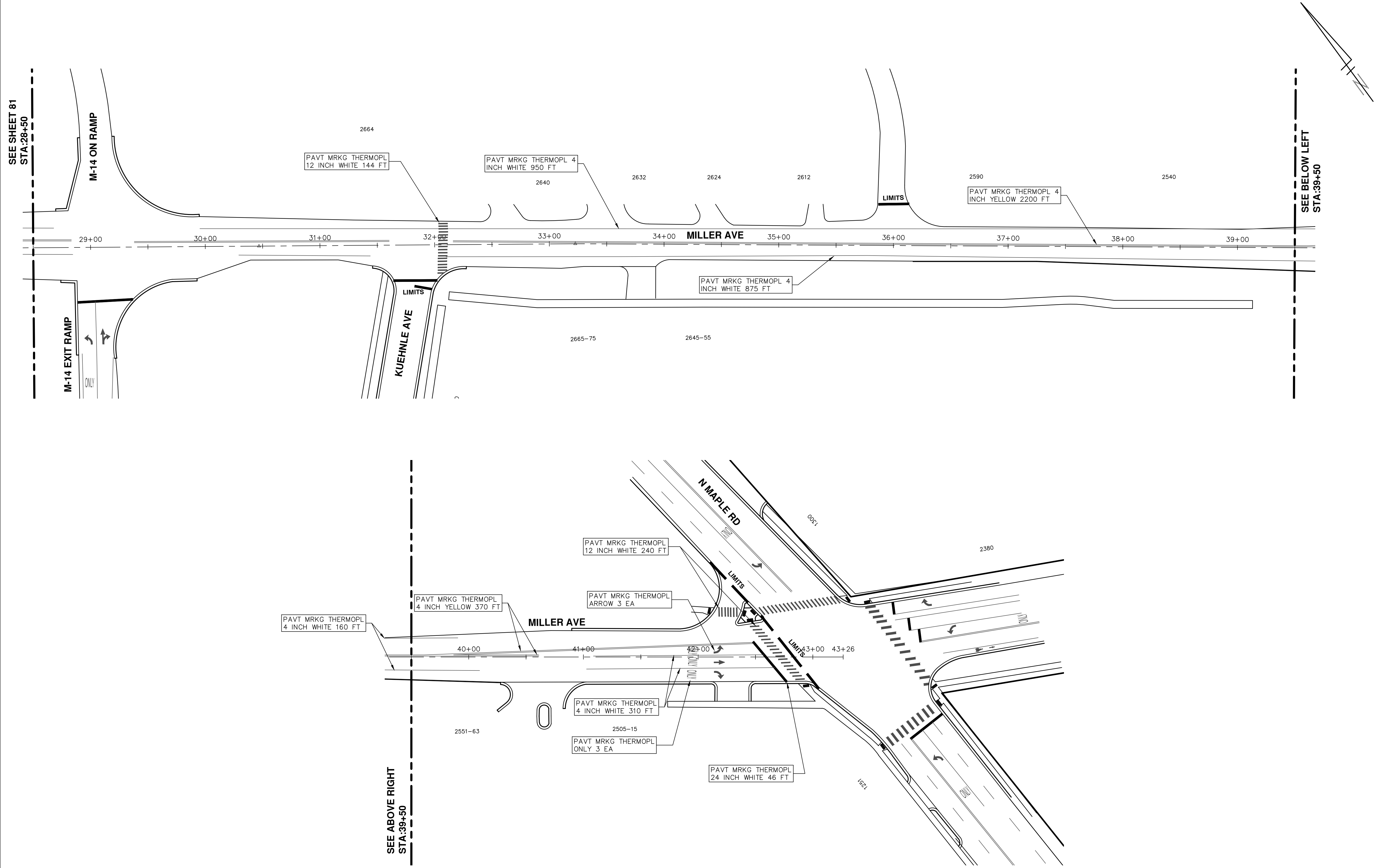


CITY OF ANN ARBOR
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD



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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 MILLER AVENUE
 PAVEMENT MARKINGS

SCALE PLAN: 1"=80'
 DRAWING No. 2017004-81

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 PUBLIC SERVICE
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-8647
 ANN ARBOR: 734-794-4410
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD

CITY OF ANN ARBOR PROJECT MANAGEMENT PROJECT LOCATION: S DIVISION STREET



ITB No. 4477 FILE No. 2017-004

QUANTITIES			
Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	7.000
2030015	Sewer, Rem, Less than 24 inch	Ft	56.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1,337.000
2047011	Conc Pav, Any Thickness, Rem	Syd	1,783.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	3,314.000
2047050	Exploratory Excavation (0-10' Deep) Tr Det I	Ea	5.000
2050010	Embankment, CIP	Cyd	239.000
2050016	Excavation, Earth	Cyd	303.000
2050023	Granular Material, CI II	Cyd	138.000
2057011	Grading, Sidewalk	Syd	401.000
2057011	Grading, Sidewalk Ramp	Syd	118.000
2057021	Subgrade Undercutting, Type IIA	Cyd	174.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	17.000
3027011	Aggregate Base, 8 inch, 21AA	Syd	1,823.000
3027021	Aggregate Base, CIP, 21AA	Cyd	25.000
3087011	Geosynthetic Paving Layer	Syd	9,929.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	72.000
4030200	Dr Structure, 24 inch dia	Ea	6.000
4037050	Dr Structure Cover, Type B, Modified	Ea	22.000
4037050	Dr Structure Cover, Type K, Modified	Ea	13.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	85.000
4037050	Dr Structure, Adj, Case 2, Modified	Ea	2.000
4037050	Dr Structure, Point	Ea	5.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	72.000
5010003	Cold Milling HMA Surface	Ton	3,788.000
5010005	HMA Surface, Rem	Syd	1,302.000
5010025	Hand Patching	Ton	357.000
5010045	HMA, 3E3	Ton	287.000
5010051	HMA, 4E3	Ton	1,739.000
5010057	HMA, 5E3	Ton	942.000
5010061	HMA, Approach	Ton	292.000
5010020	Pvmt Joint and Crack Repr, Detail 7	Ft	240.000
5010021	Pvmt Joint and Crack Repr, Detail 8	Ft	120.000
5017031	HMA, Wedging, 36A	Ton	21.000
5017031	Cold Milling for Curb Reveal	Ton	180.000
6030005	Cement	Ton	1.000
8027001	Curb and Gutter, Conc	Ft	1,664.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	110.000
8037001	Detectable Warning Surface, Modified	Ft	160.000
8037001	Detectable Warning Surface, Cast Iron	Ft	80.000
8037001	Fence, Protective, Modified	Ft	1,000.000
8037010	Sidewalk Ramp, Conc, 8 inch, Modified	Sft	1,058.000
8037010	Sidewalk, Conc, 8 inch, Modified	Sft	3,601.000
8110049	Pav Mrkg, Ovy Cold Plastic, Direction Arrow Sym, Bike	Ea	7.000
8110058	Pav Mrkg, Ovy Cold Plastic, Bike, Small Sym	Ea	10.000
8110079	Pav Mrkg, Ovy Cold Plastic, Sharow Symbol	Ea	3.000
8110450	Recessing Pavement Markings, Longit	Ft	3,127.000
8110451	Recessing Pavement Markings, Transv	Sft	2,744.000
8110500	Pav Mrkg, Wet Retrflec, Polyurea, 4 inch, White	Ft	910.000
8110501	Pav Mrkg, Wet Retrflec, Polyurea, 6 inch, White	Ft	1,903.000
8110504	Pav Mrkg, Wet Retrflec, Polyurea, 4 inch, Yellow	Ft	314.000
8117001	Pav Mrkg, Wet Retrflec, Polyurea, 24 inch, Stop Bar	Ft	403.000
8117001	Pav Mrkg, Wet Retrflec, Polyurea, 12 inch, Crosswalk	Ft	1,756.000
8117001	Pav Mrkg, Wet Retrflec, Polyurea, 4 inch, Parking Sym, White	Ft	512.000
8117050	Pav Mrkg, Wet Retrflec, Polyurea, Lt Turn Arrow Sym	Ea	2.000
8117050	Pav Mrkg, Wet Retrflec, Polyurea, Only	Ea	4.000
8117050	Pav Mrkg, Wet Retrflec, Polyurea, Rt Turn Arrow Sym	Ea	1.000
8117050	Pav Mrkg, Wet Retrflec, Polyurea, Thru Arrow Sym	Ea	1.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	21.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	21.000
8120030	Channelizing Device, 42 inch, Furn	Ea	48.000
8120031	Channelizing Device, 42 inch, Oper	Ea	48.000
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	201.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	201.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	4.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	4.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	1,002.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	1,002.000
8127050	No Parking Sign	Ea	5.000
8120245	Pav Mrkg, Wet Retrflec, Type R, Tape, 4 inch, White, Temp	Ft	1,280.000
8120310	Sign Cover	Ea	26.000
8197050	Handhole Assembly, 12 inch x 18 inch	Ea	2.000
8197050	Handhole Assembly, 17 inch x 30 inch	Ea	2.000
8197050	Handhole Assembly, 24 inch x 36 inch	Ea	2.000
8167011	Slope Restoration	Syd	143.000
8217050	Monument Box Adjust	Ea	5.000
8230431	Gate Box, Adj, Case 1	Ea	23.000
8257050	Remove Parking Meters	Ea	18.000
8257050	Install Parking Meters	Ea	14.000

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

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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
63.0	D3-1	Street Name Sign	1,500	94,500
2.0	G20-2	End Road Work Sign	4,500	9,000
2.0	M4-10(L)	Detour Sign (Left Arrow)	6,000	12,000
1.0	M4-10(R)	Detour Sign (Right Arrow)	6,000	6,000
4.0	M4-8a	End Detour Sign	3,000	12,000
8.0	M4-9L	Detour Sign (w/Left Arrow)	5,000	40,000
9.0	M4-9R	Detour Sign (w/Right Arrow)	5,000	45,000
7.0	M4-9S	Detour Sign (w/Thru Arrow)	5,000	35,000
8.0	R11-2	Road Closed Sign ("Road Closed")	10,000	80,000
5.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12,500	62,500
4.0	R3-1	Movement Prohibition Sign ("No Right Turn")	4,000	16,000
2.0	R3-2	Movement Prohibition Sign ("No Left Turn")	4,000	8,000
1.0	R3-5(L)	Mandatory Movement Sign (Left Turn Only)	7,500	7,500
1.0	R3-6	Optional Movement Sign (Thru and Right Turn)	7,500	7,500
1.0	R3-6	Optional Movement Sign (Thru and Left Turn)	7,500	7,500
2.0	R5-18cLA	Special Regulatory Sign ("Work Zone Begins/Traffic Fines Doubled")	17,500	35,000
1.0	SP-1	Special Sign ("Liberty St Closed at Division")	12,500	12,500
2.0	SP-1	Special Sign ("Washington St Closed at Division")	12,500	25,000
1.0	W1-4	Reverse Curve Sign	9,000	9,000
2.0	W1-6	One-Direction Large Arrow Sign	8,000	16,000
2.0	W4-2(R)	Right Lane Ends Sign	9,000	18,000
2.0	W9-3	Center Lane Closed Ahead Sign	9,000	18,000
21.0	W20-1	Road Work Ahead Sign	16,000	336,000
4.0	W20-2	Detour Ahead Sign	9,000	36,000
6.0	W20-3	Road Closed Ahead Sign	9,000	54,000
TOTAL			102.00	1002.00

CONSTRUCTION METHOD AND SEQUENCING

SEE DETAILED SPECIFICATION FOR MAINTAINING TRAFFIC FOR CONSTRUCTION STAGING/SEQUENCING INFORMATION RELATED TO THE PROPOSED WORK ON SOUTH DIVISION STREET.

NOTES

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

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

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



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

ANNUAL STREET RESURFACING - 2017

S DIVISION STREET

DRAWING No.

2017004-82

SHEET No.

82 OF 136

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - S Division Street Notes.dwg - _a2 standard bw.stb - Plot Date: 3/27/2017 9:31:21 AM

CONSTRUCTION NOTES:

1. Driveways and entrances to buildings, real property, and the like shall not be blocked except for short durations and only when approved by the Engineer. Vehicular and pedestrian access shall be maintained at all times. It shall be the Contractor's responsibility to coordinate all necessary driveway closures with the property owner(s) and resident(s) in the areas of construction.
2. The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
3. Location and depth of utilities as depicted on the plans is approximate and shown according to the best information available. It is the Contractor's responsibility to excavate ahead and adjust depth of conflict utilities accordingly. Any damage to utilities is the Contractor's responsibility to avoid and/or repair as necessary.
4. The Contractor is to take special care to protect the existing water main and be responsible for maintaining consistent water service.
5. During non-working hours no trench shall remain open; any open trench shall be properly secured with protective fencing. This work shall be included in the item of work "General Conditions".
6. Trenches for new water services shall be excavated to MIOSHA and City of Ann Arbor Field Services requirements.
7. City of Ann Arbor Field Services will install the corporation and copper service lead(s) to transfer the connection(s). If an existing water service is found to be failing or is not copper, the lead will be replaced to the curb box by Field Services.
8. For the installation of corporations, or any other related activities, the Contractor shall not receive additional compensation for delays due to the scheduling of or coordination with the City of Ann Arbor Field Services.
9. The Contractor shall backfill trenches in accordance with Trench Detail specified on plans. This work shall be included in the item of work "Excavate and Backfill for Water Service Tap and Lead". All concrete removals and replacements required for this work will be paid for separately.
10. All ductile iron pipe and fittings shall be polyethylene wrapped per ANSI/AWWA C105/A21.5.
11. Cor-blu bolts to be used at all mechanical water main joints at hydrants and Megalug fittings
12. The Contractor shall construct, flush, and bacteriologically test the water main per Detailed Specification "Water Main Installation and Testing" and as approved by the Engineer. All chlorinated water shall be discharged directly into an approved sanitary sewer. The Contractor shall supply all necessary hoses, fittings and the like to accomplish this work.
13. Water main fittings, other than those specifically listed as separate pay items, which are required to complete the work, such as blow-off assemblies, concrete thrust blocks, solid sleeves and mechanical plugs, shall not be paid for separately, but shall be included in the pipe pay items.
14. Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
15. All fittings, hydrants, valves and castings removed during construction are the property

- of the City of Ann Arbor. The Contractor within 48 hours shall deliver to City of Ann Arbor Field Operations and Maintenance Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
16. Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
 17. The Contractor shall be responsible for the continuous maintenance of the temporary road surface and soil erosion control measures within the construction area until the full completion of the project. This work shall be included in the item of work "General Conditions".
 18. All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.
 19. Sawn sewer pipe connections shall be coupled with a Fernco flexible coupling and a stainless steel shear ring.
 20. The location of material stock piles and on-site staging areas to be approved by the Engineer.
 21. For mainline paving, the width of the mat for each pass of the paver shall be not less than 10.5' or greater than 15', as directed by the Engineer. The Engineer will direct the layout of the longitudinal joints during construction.
 22. All structures shall receive new castings as directed by the Engineer, as specified on the standard casting schedule. The existing castings are the property of the City of Ann Arbor. The Contractor shall deliver to City of Ann Arbor Field Operations and Maintenance Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
 23. Payment for drainage structure sumps, where specified, shall be included in the payment for the various drainage structure sizes and or types.
 24. Where sewer pipes of different sizes or materials are joined, Fernco flexible couplings with stainless steel shear rings shall be used. The Contractor's purchase price for these devices, including shipping, shall be paid as an extra. Prior to payment for this item, the Contractor shall submit receipts for the Engineer's review and approval. All other costs associated with the installation of these devices shall be included in the payment for the sewer.
 25. Where sewer and water main are to be removed & replaced or added, all pipe shall be installed using Trench Detail I, Modified detailed in the specifications or shown on Plans. Backfill for sewer and water construction shall be MDOT Granular Material, Class II, Modified.
 26. Existing street name, guide, and regulatory signs, and mailboxes which conflict with the proposed construction shall be removed prior to construction, stored in a manner which will prevent damage, and re-set in locations as directed by the Engineer. This work will not be paid for separately, but shall be included in "General Conditions."
 27. The pay item of Earth Excavation and Embankment (CIP) shall be paid at plan quantity unless the Engineer determines that there has been a significant change from the work shown on the plans. See the 2012 MDOT Standard Specifications for Construction, section 109.01 for more details.

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

1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER AT ALL TIMES DURING CONSTRUCTION. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER.
2. ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, CITY ORDINANCE CHAPTER 63, CITY OF ANN ARBOR STANDARDS DIVISION VII, THE LAWS OF THE STATE OF MICHIGAN, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
3. DAILY, OR AFTER ANY STORM EVENT, INSPECTIONS OF EROSION CONTROL MEASURES SHALL BE MADE BY THE CONTRACTOR. PERIODIC INSPECTIONS MAY BE MADE BY THE ENGINEER TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY CORRECTIONS SHALL BE MADE WITHOUT DELAY, AND WITHOUT ADDITIONAL COST TO THE CITY OF ANN ARBOR.
4. EROSION AND SEDIMENTATION FROM WORK ON THE SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS, ROADWAYS OR WATERWAYS.
5. ALL MUD/SOIL TRACKED ONTO ROADWAYS FROM THE SITE DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR. IF SO ORDERED, THE CONTRACTOR SHALL PROVIDE AND OPERATE A VACUUM-TYPE STREET SWEEPER, AT NO ADDITIONAL COST TO THE CITY OF ANN ARBOR, WITHIN FOUR (4) HOURS OF BEING SO ORDERED.
6. RESTORATION OF ALL DISTURBED AREAS, INCLUDING PLACEMENT OF TOPSOIL, SEED, FERTILIZER AND MULCH AND/OR SOD SHALL BE PERFORMED WITHIN FIVE (5) DAYS OF THE COMPLETION OF FINAL GRADE.
7. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.
8. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
9. PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF WATER TRUCKS AND/OR DUST PALLIATIVE AS REQUIRED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND REMOVAL OF SOME MEASURES UPON AUTHORIZED COMPLETION OF THE PROJECT. FINAL COMPLETION OF PROJECT WILL NOT BE AUTHORIZED UNTIL ALL SITE WORK AND UTILITY CONSTRUCTION IS COMPLETE AND ALL SOILS ARE STABILIZED.
11. THE CONTRACTOR SHALL NOT GRADE INTO ADJACENT PROPERTIES. SILT AND PROTECTIVE FENCE SHALL BE INSTALLED AND MAINTAINED TO PREVENT GRADING, EROSION AND SEDIMENTATION INTO THE ADJACENT PROPERTIES.
12. TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.

SEQUENCE OF EROSION CONTROL MEASURES:

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

SAMPLE SOIL EROSION AND SEDIMENTATION CONTROL INSTALLATION MINIMUM REQUIREMENTS:

- 1.1. INSTALL SILT FENCE, TREE PROTECTION FENCING, MUD MATS, INLET FILTERS ON EXISTING DRAINAGE FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- 1.2. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.
- 1.3. INSTALL WATER MAIN, STORM SEWERS, AND OTHER ENCLOSED DRAINAGE FEATURES. NEW INLET FILTERS SHALL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF NEW DRAINAGE INLETS.
- 1.4. PERFORM PAVEMENT REPAIR AND CONSTRUCTION OF SIDEWALK AND CURB AND GUTTER.
- 1.5. CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY.
- 1.6. INSTALL SLOPE RESTORATION IN ALL DISTURBED AREAS.
- 1.7. CLEAN OUT STORM SEWER SYSTEMS.
- 1.8. REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.
- 1.9. ALL TEMP. SOIL EROSION CONTROL MEASURES MUST BE REMOVED, WITH ENGINEERS APPROVAL, PRIOR TO FINAL INSPECTION.

NOTE: THIS SEQUENCE IS FOR INFORMATION ONLY. IT IS INTENDED TO SHOW THE SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THEIR OWN DETAILED CONSTRUCTION SEQUENCE AND SCHEDULE TO THE ENGINEER FOR REVIEW, COMMENT, AND APPROVAL.

TEMPORARY SEEDING:

1. SEED IN ACCORDANCE WITH PROJECT DRAWINGS AND SPECIFICATIONS.
2. ANY DISTURBED AREA NOT PAVED, SEEDED, MULCHED, SODDED OR BUILT UPON BY NOVEMBER 15TH OR JUNE 30TH IS TO BE TEMPORARILY STABILIZED PER SPECIFICATIONS.

BM #	ELEV	DESCRIPTION
1	860.321	NW ANCHOR BOLT FOR LIGHT POLE/SUPPORT POLE FOR SIGNALS @ SE CORNER OF DIVISION & HURON.
2	862.912	TOP NORTH SIDE OF CONC. BASE FOR PED. POLE @ N.E. CORNER OF DIVISION AND WASHINGTON.
3	864.071	TOP EAST SIDE OF CONC. BASE FOR PED. POLE @ N.W. CORNER OF DIVISION AND LIBERTY.
4	866.285	NW ANCHOR BOLT FOR LIGHT POLE ON EAST SIDE OF DIVISION @ HOUSE #333
5	866.820	NE ANCHOR BOLT FOR LIGHT POLE/SIGNAL SUPPORT POLE @ NW CORNER OF DIVISION & WILLIAM.
6	867.032	SE ANCHOR BOLT FOR LIGHT POLE ON WEST SIDE OF DIVISION @ HSE #414
7	869.096	SET RR SPIKE IN WEST SIDE OF LIGHT POLE @ NE CORNER OF DIVISION & JEFFERSON.
8	869.567	SET RR SPIKE IN WEST SIDE OF LIGHT POLE ON EAST SIDE OF DIVISION ACROSS THE STREET FROM HSE #518
9	867.483	SET RR SPIKE IN EAST SIDE OF LIGHT POLE ON WEST SIDE OF DIVISION @ NORTH SIDE OF CORNER PARK AREA.
10	860.114	SE ANCHOR BOLT FOR MAST ARM POLE ON WEST SIDE OF DIVISION @ PACKARD AND MADISON.

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

PERMIT	ISSUING AUTHORITY
LANE CLOSURE PERMIT*	CITY OF ANN ARBOR PROJECT MANAGEMENT UNIT
"NO PARKING" SIGNS PERMIT*	CITY OF ANN ARBOR PROJECT MANAGEMENT UNIT
RIGHT-OF-WAY PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
* NO COST TO CONTRACTOR	

PERMITS REQUIRED TO BE OBTAINED BY THE CITY OF ANN ARBOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

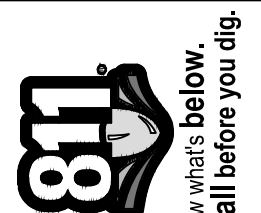
PERMIT	ISSUING AUTHORITY
M.D.E.Q. WATER MAIN CONSTRUCTION PERMIT	MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
M.D.O.T. RIGHT-OF-WAY PERMIT	MICHIGAN DEPARTMENT OF TRANSPORTATION

CONTACT INFORMATION

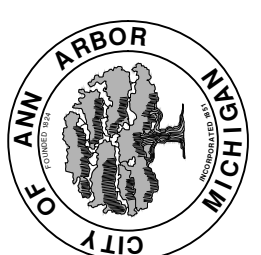
PUBLIC UTILITIES	OWNER	CONTACT
WATER		DAN WOODEN (734) 794-6350
SANITARY		MARK COZART (734) 794-6350
STORM	CITY OF ANN ARBOR FIELD OPERATIONS SERVICE UNIT W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	MATT WALDSMITH (734) 794-6350
FORESTRY		STEVEN GOEBEL (734) 794-6350
SIGNS SIGNALS STREET LIGHTS		CHUCK FOJTIK (734) 794-6361
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	ROBERT CZAPIEWSKI (734) 544-7818
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	CLAY COMBEE (734) 397-4112
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	(734) 996-2135
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016

MISCELLANEOUS QUANTITIES

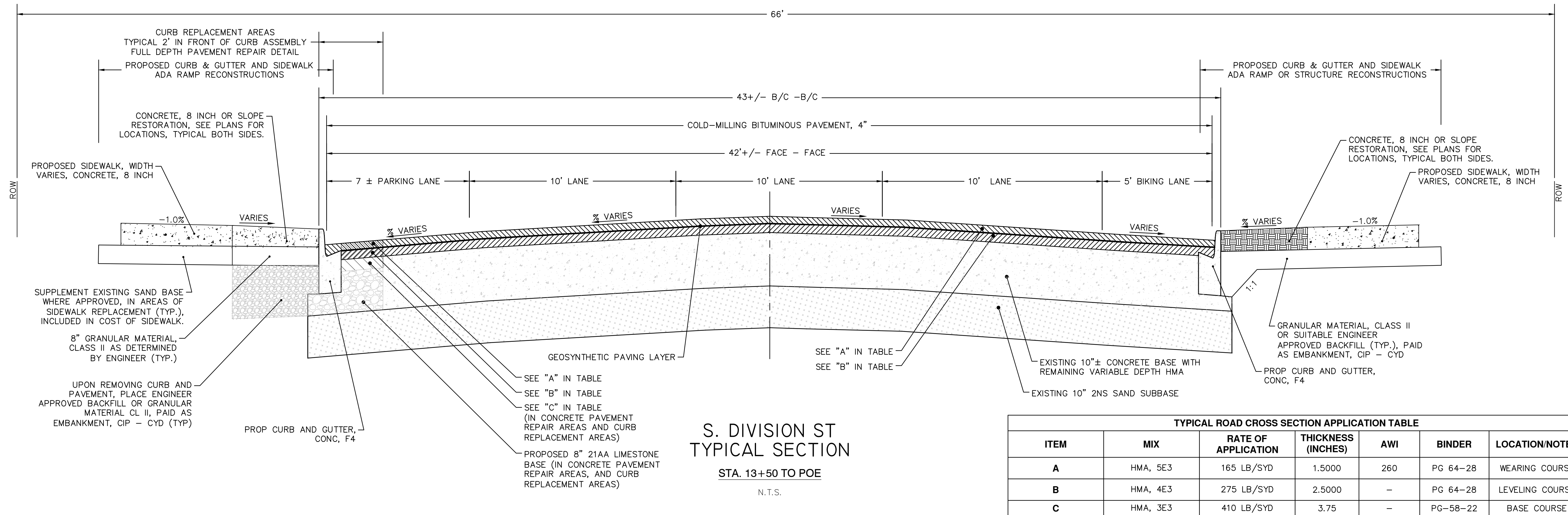
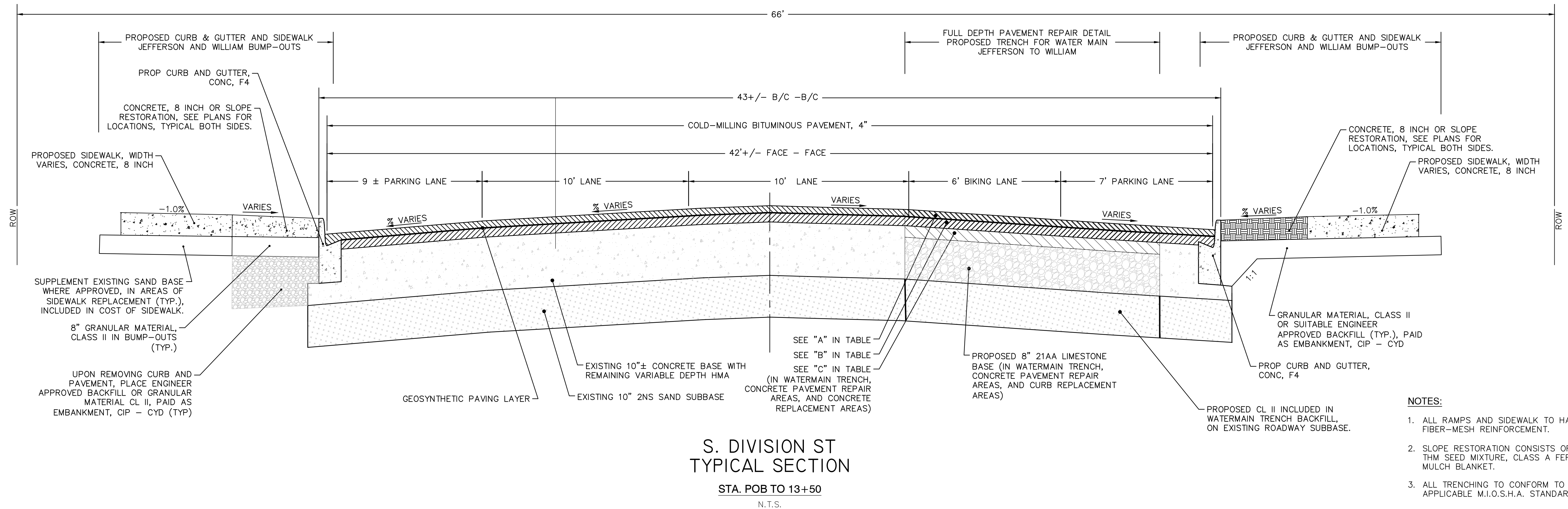
ITEM DESCRIPTION	QUANTITY
AGGREGATE BASE, C.I.P., 21AA	25 CYD
BRICK PAVERS, REMOVE AND REPLACE, ANY TYPE	500 SFT
EROSION CONTROL, INLET PROTECTION, FABRIC DROP	17 EA
EMBANKMENT, CIP	239 CYD
EXCAVATION, EARTH	303 CYD
GEOSYNTHETIC PAVING LAYER	9,929 SYD
GRANULAR MATERIAL, CL II	138 CYD
HAND PATCHING, HMA LVSP	346 TONS
PAVEMENT JOINT AND CRACK REPAIR - DETAIL 7	240 FT
PAVEMENT JOINT AND CRACK REPAIR - DETAIL 8	120 FT
POINT EXISTING STRUCTURE	5 EA
PROTECTIVE FENCE	1000 FT



Know what's below.
Call before you dig.

		DAD	DAD	CHECKED
		AG.GS.RG	AG.GS.RG	DRAWN
	03-24-17	03-08-17	DATE	
	01	00	BID SET	REV.
				
<p>CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET PO BOX 886 ANN ARBOR MI 48106-0867 www.a2gov.org</p>				
<p>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2017 S DIVISION STREET</p>				
<p>SCALE: N/A DRAWING No. 2017004-83</p>				
<p>SHEET No. 83 OF 136</p>				

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TYPICAL ROAD CROSS SECTION APPLICATION TABLE

ITEM	MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI	BINDER	LOCATION/NOTES
A	HMA, 5E3	165 LB/SYD	1.5000	260	PG 64-28	WEARING COURSE
B	HMA, 4E3	275 LB/SYD	2.5000	-	PG 64-28	LEVELING COURSE
C	HMA, 3E3	410 LB/SYD	3.75	-	PG-58-22	BASE COURSE

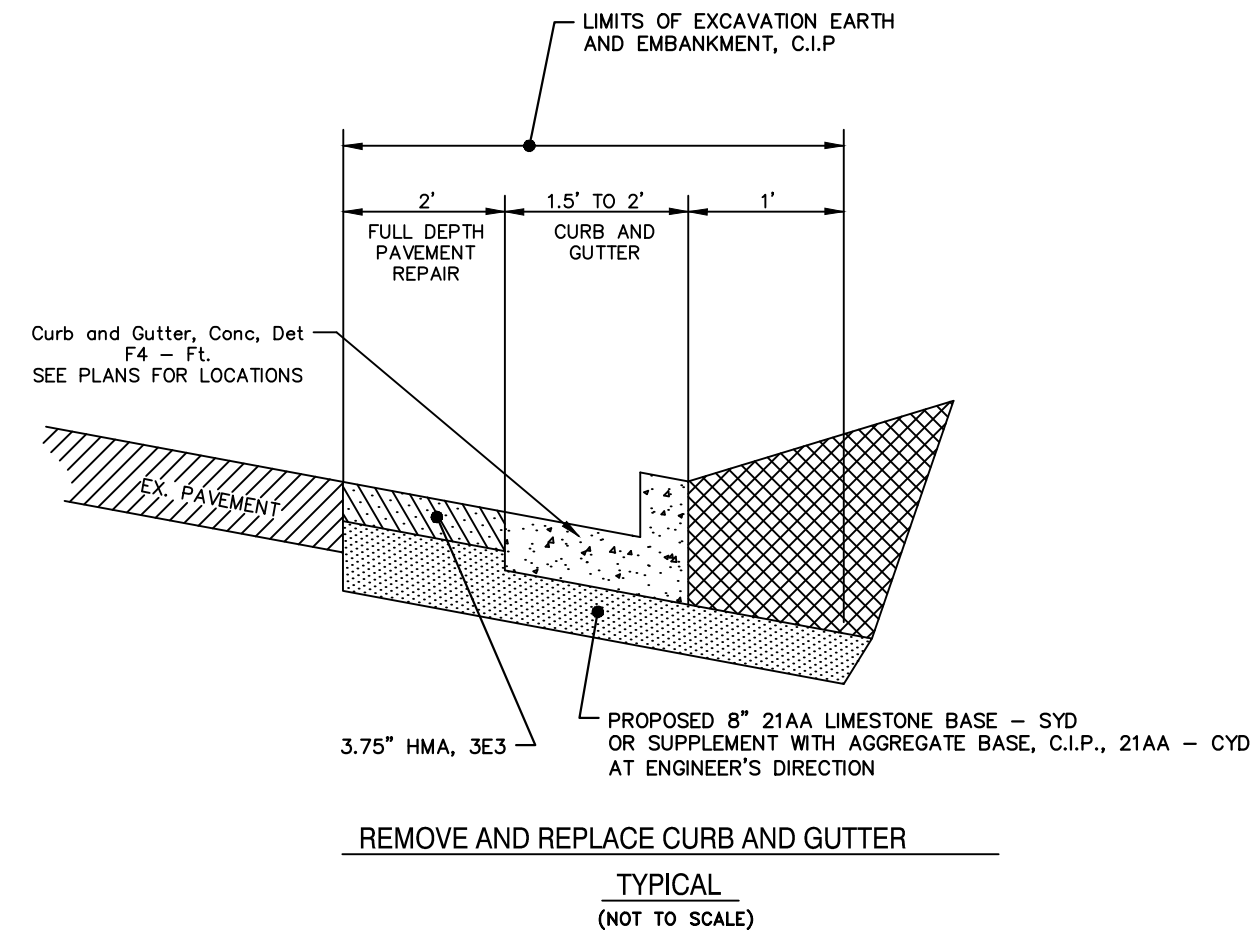
- NOTES:**
1. ALL RAMPS AND SIDEWALK TO HAVE FIBER-MESH REINFORCEMENT.
 2. SLOPE RESTORATION CONSISTS OF 4" TOPSOIL, THM SEED MIXTURE, CLASS A FERTILIZER, AND MULCH BLANKET.
 3. ALL TRENCHING TO CONFORM TO ALL APPLICABLE M.I.O.S.H.A. STANDARDS

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

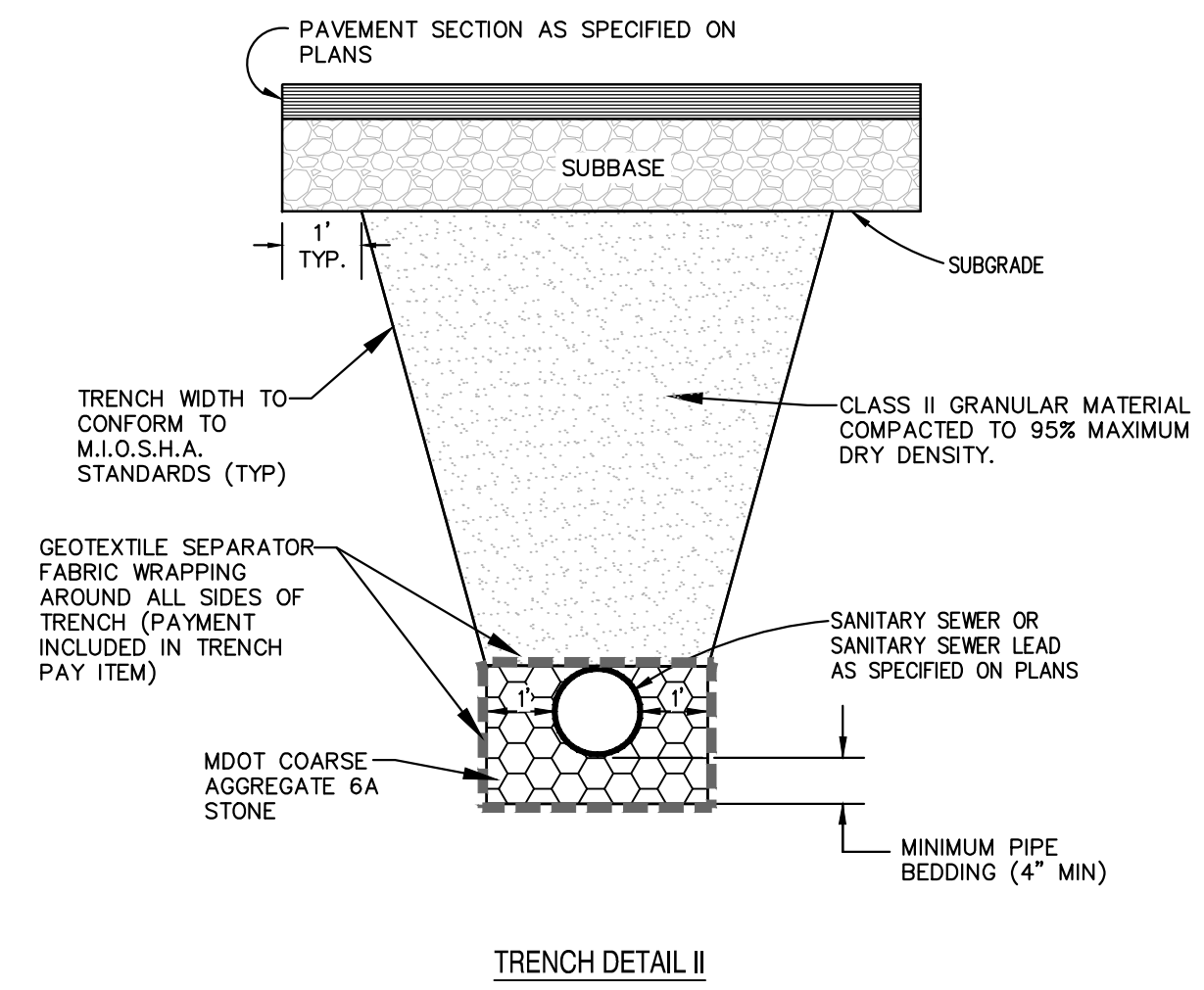
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00	BID SET	AG.GS.RG	DAD	DRAWN
			DATE	
			DESCRIPTION	

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
TYPICAL DETAIL
 SCALE PLAN: NTS
 DRAWING No. 2017004 - 84
 SHEET No. 84 OF 136

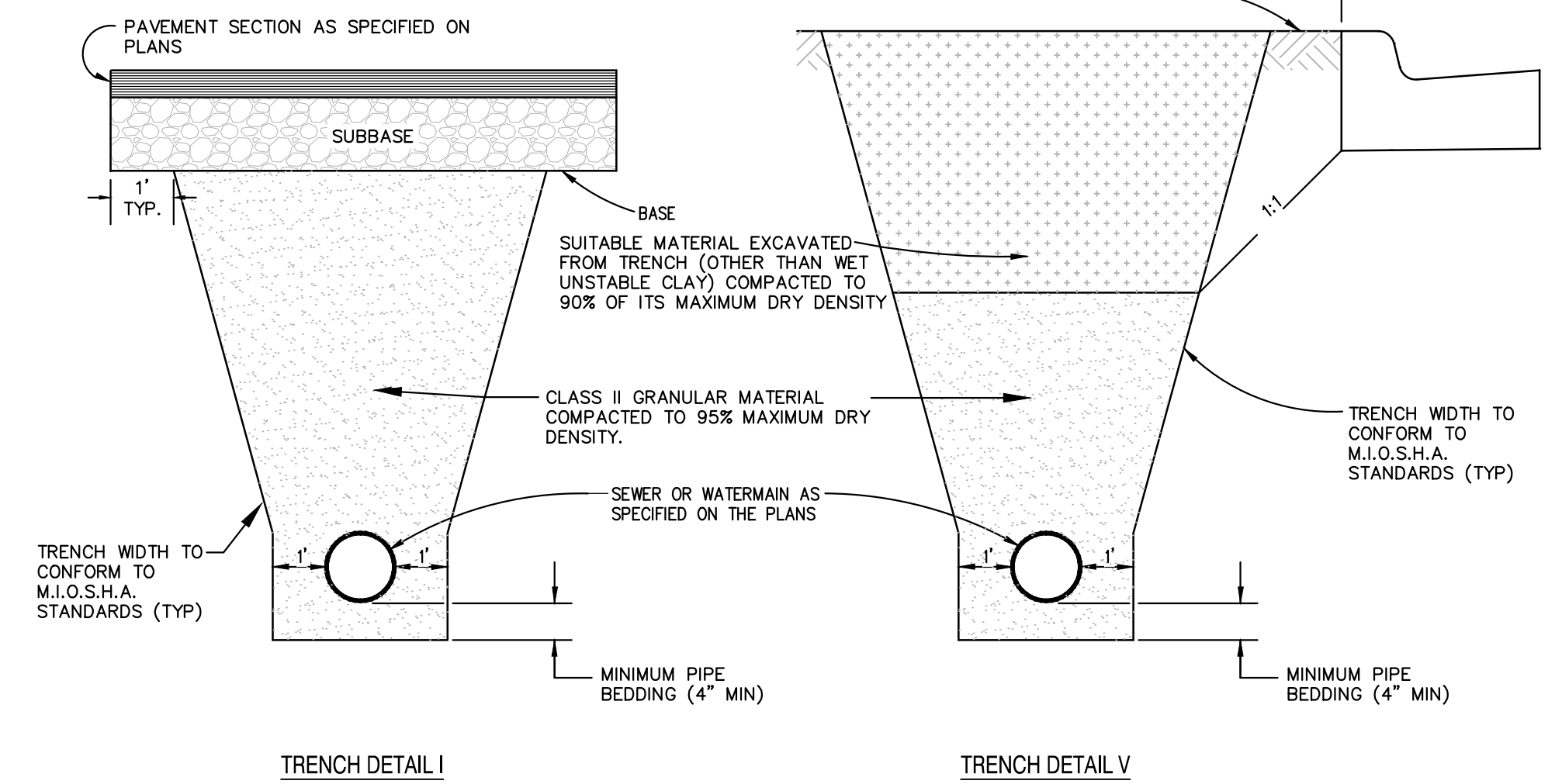
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REMOVE AND REPLACE CURB AND GUTTER
TYPICAL
(NOT TO SCALE)



TRENCH DETAIL II

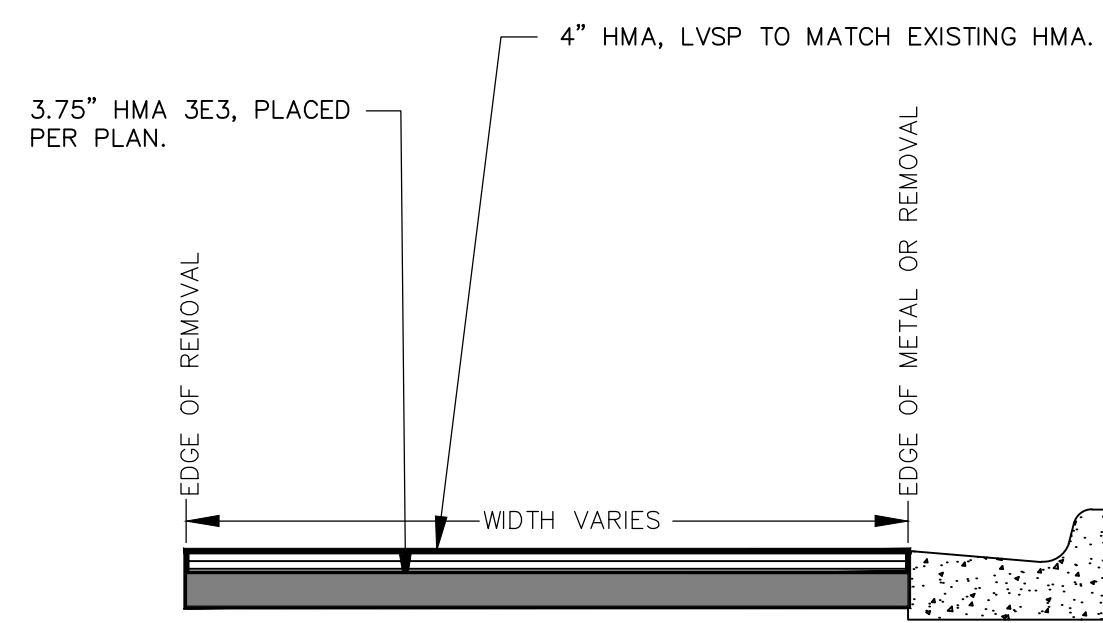


TRENCH DETAIL I

TRENCH DETAIL V

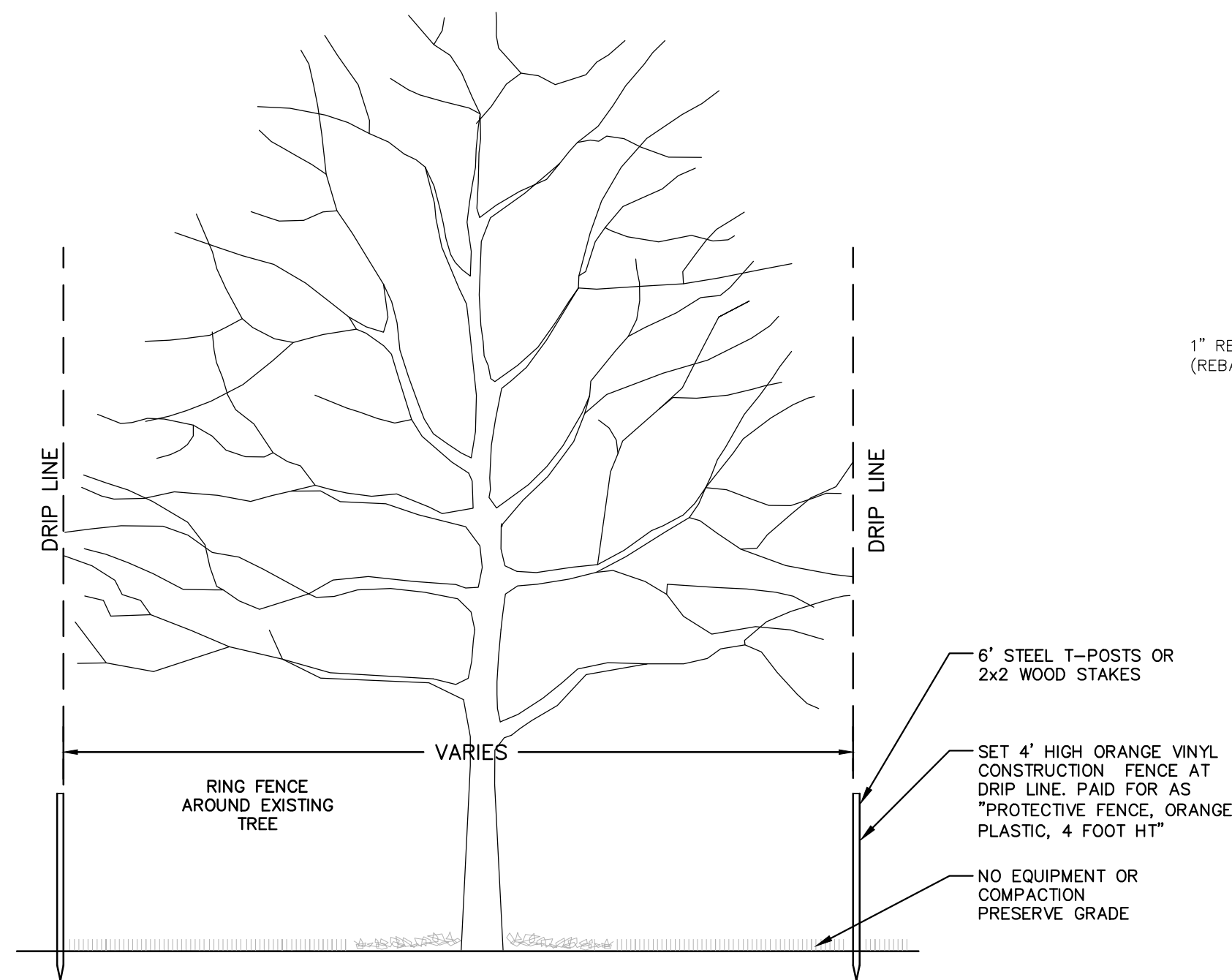
UTILITY TRENCH DETAILS

- NOTES:
1. PAVEMENT REMOVAL IS INCLUDED IN PRICE OF UTILITY
 2. DENSITY TESTING PER CITY OF ANN ARBOR SPECIFICATION
 3. TRENCH DETAILS SHOW TYPE OF BACKFILL AND SURFACE RESTORATION ONLY.
 4. ALL TRENCHING TO CONFORM TO ALL APPLICABLE M.I.O.S.H.A. STANDARDS

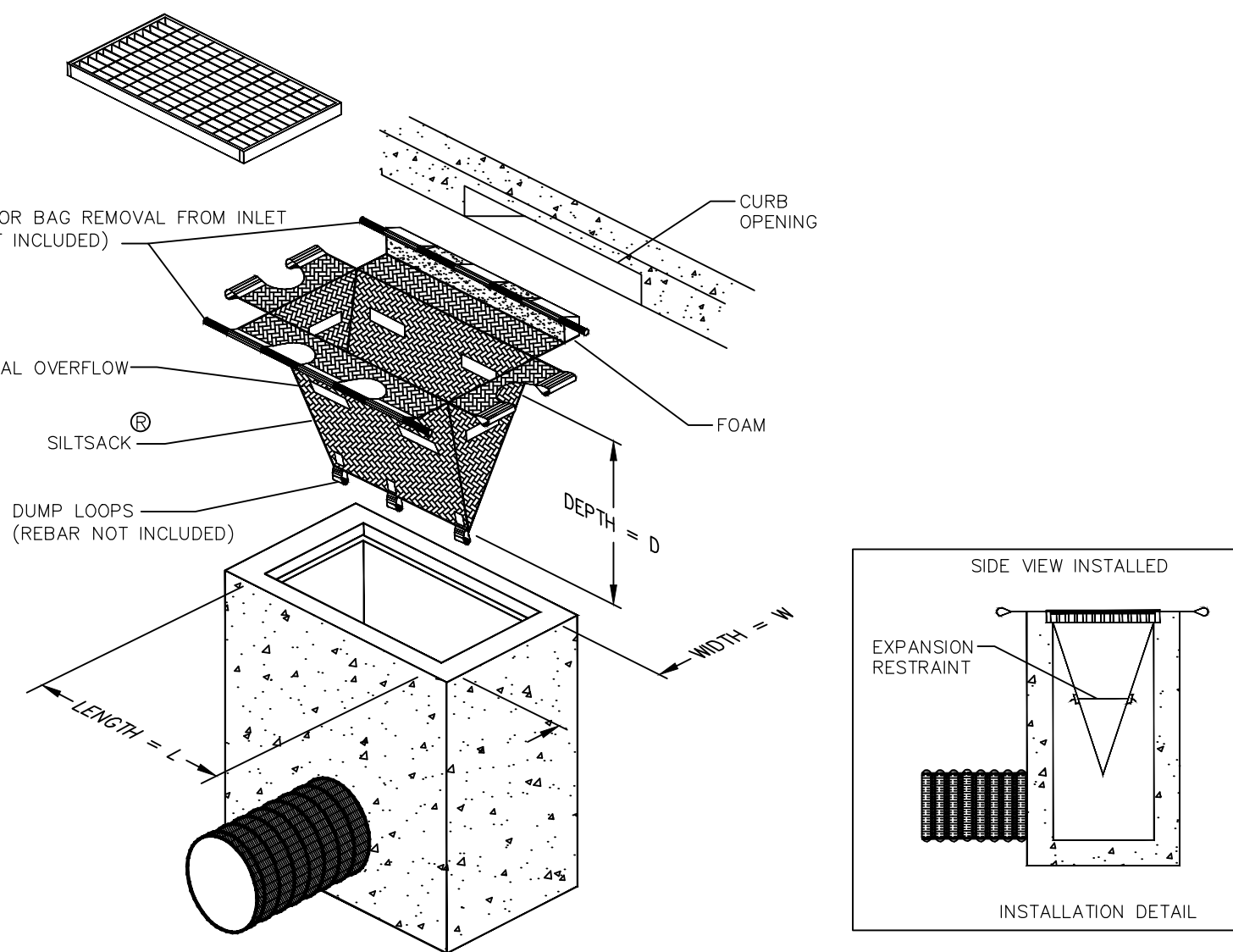


HAND PATCH
TO BE APPLIED TO WATER MAIN TRENCHES AND AT BUMP-OUTS TO MAINTAIN TRAFFIC. TO BE USED AT ENGINEER'S DIRECTIVE.

HAND PATCHING



TREE PROTECTION DETAIL



INLET FILTER (MODIFIED)

SILTSACK®
SPECIFICATIONS

NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

REGULAR FLOW SILTSACK®

(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80%
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC ⁻¹

HIGH-FLOW SILTSACK®

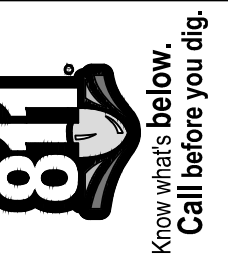
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC ⁻¹

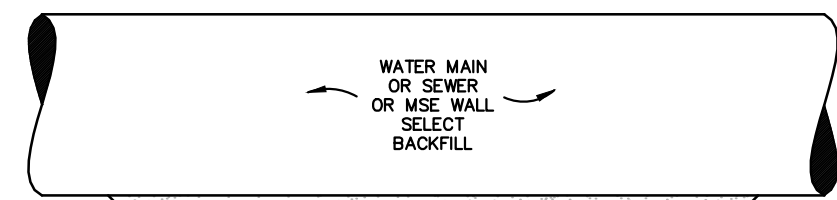
OIL-ABSORBANT SILTSACK®

(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

DEPENDING ON YOUR PARTICULAR APPLICATION, THE SILTSACK® CAN BE MADE FROM EITHER ONE OF THE ABOVE FABRICS WITH AN OIL-ABSORBANT FILLW INSERT OR, MADE COMPLETELY FROM AN OIL-ABSORBANT SILTSACK® WITH A WOVEN FILLW INSERT.



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	03-08-17	AG.GS.RG	DAD

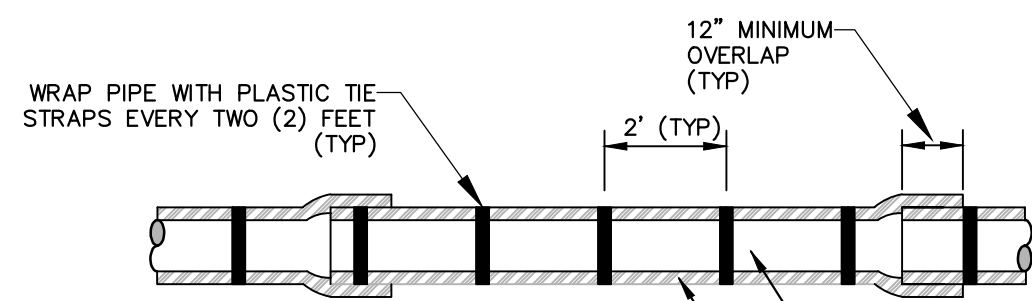


CLASS II GRANULAR MATERIAL COMPACTED TO 95% MAXIMUM DRY DENSITY PER CITY OF ANN ARBOR STANDARDS (SEE DIVISION IV REGARDING BACKFILL FOR PVC SEWERS).

WATER/SEWER CROSSING: GRADE P-NC HIGH EARLY STRENGTH CONCRETE TO BE PLACED AROUND BOTTOM PIPE. EXTEND CONCRETE 1' IN EACH DIRECTION BEYOND OUTSIDE EDGE OF TOP PIPE.

APPLIES TO WATER AND/OR SEWER CROSSINGS WITH LESS THAN 1.5' OF VERTICAL CLEARANCE - SEE PLANS FOR LOCATIONS

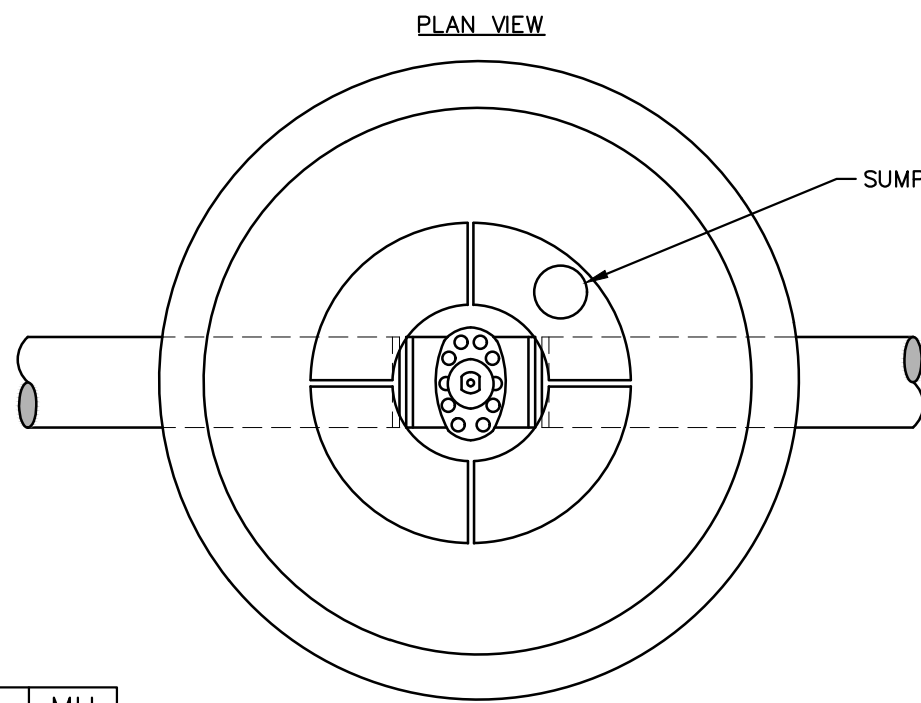
CONCRETE UTILITY SADDLE



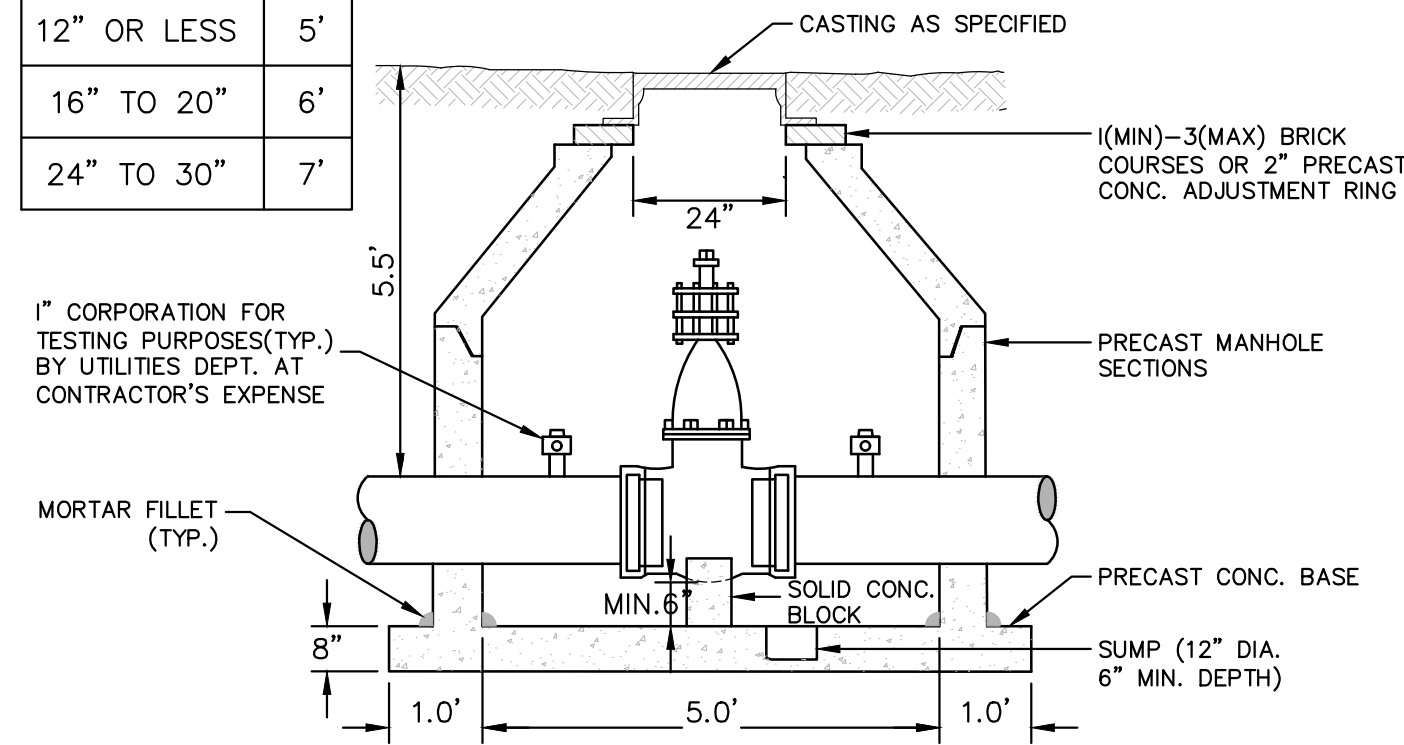
NOTE: FOLLOW ANSI/AWWA C105/A21.5-05 REVISION OF ANSI/AWWA C105/A21.5-99 FOR CONSTRUCTION AND INSTALLATION METHODS.

APPLIES TO: POLYETHYLENE WRAPPED D.I. WATERMAIN SEE PLANS FOR LOCATIONS

POLYETHYLENE ENCASUREMENT



PIPE SIZE	MH DIA.
12" OR LESS	5'
16" TO 20"	6'
24" TO 30"	7'



- NOTES:
1. ALL LIFT HOLES AND JOINTS SHALL BE MORTARED BOTH INSIDE AND OUTSIDE.
 2. ALL JOINTS MADE WATER TIGHT WITH RUBBER GASKET JOINTS.
 3. NO STEPS PERMITTED

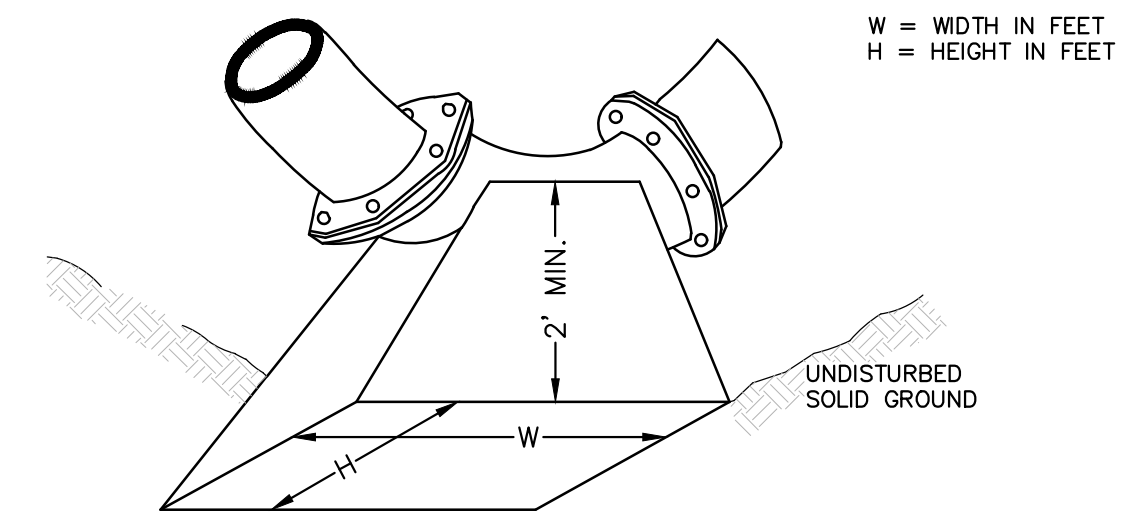
CITY OF ANN ARBOR STANDARD SD-W-3
APPLIES TO: SEE PLANS FOR LOCATIONS

GATE WELL FOR MAIN 16" & SMALLER

MINIMUM STANDARDS

REACTION BACKING: The Class "A" concrete at the Fitting face shall extend to within (2) inches of the bell and shall extend from the fitting face a minimum of (2) feet to the UNDISTURBED SOLID GROUND. The dimensions of the reaction backing (thrust block) at the face of the undisturbed solid ground shall be as shown in the Table below. If there isn't sufficient space for the installation of the "thrust block" without interference with other services, another arrangement satisfactory to the engineer shall be used, i.e. encasement.

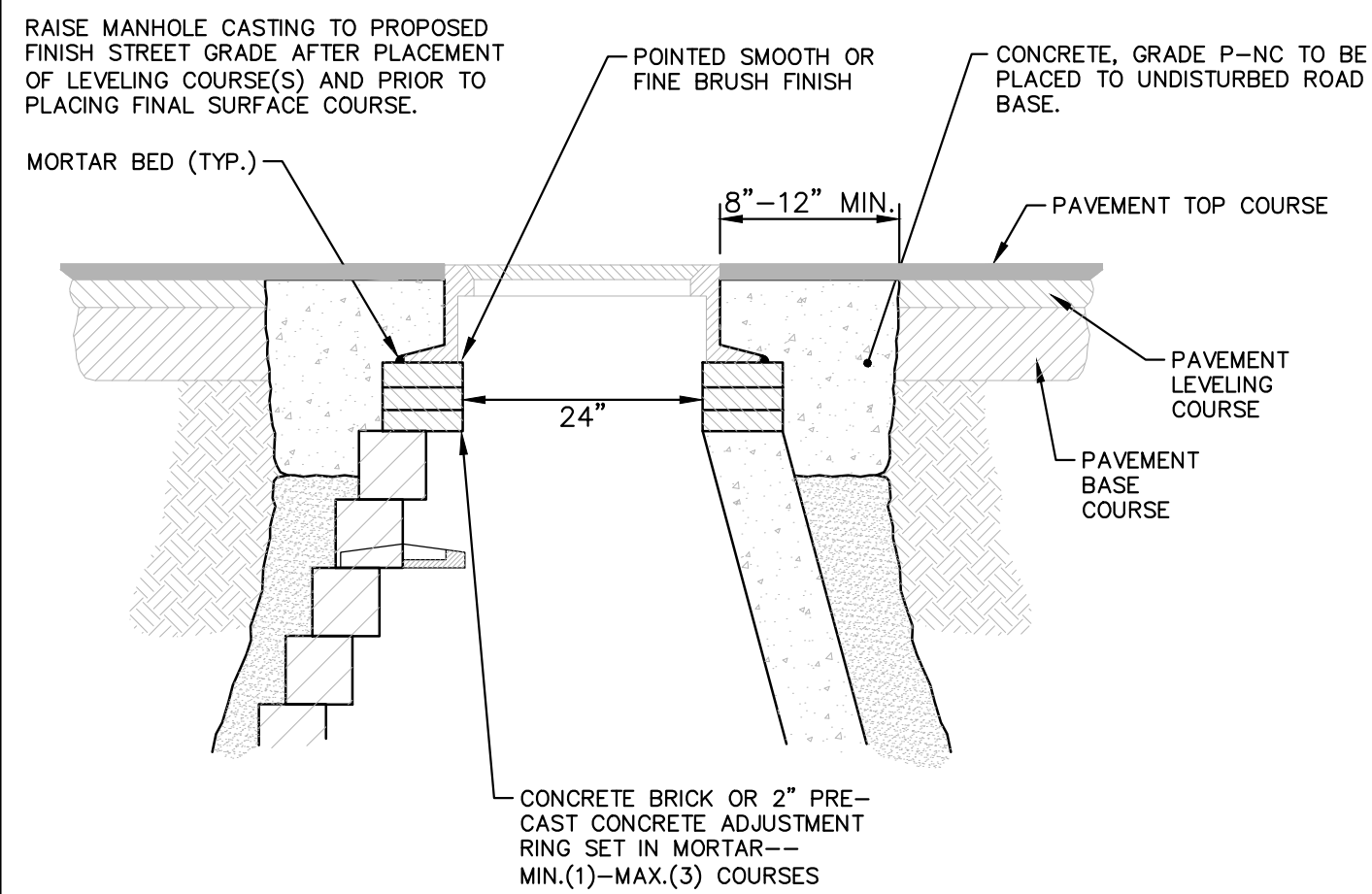
Fittings I.D.	Plug Tee Cross		Bends				Hydrant	
	W	H	90°	45°	22½°	11¼°	W	H
2.5	1	1	1	1	1	1		
4	1	1	1	1	1	1		
6	2	1.5	2	2	2	1	1	2 1.5
8	2.5	2	3.5	2	2	1	1	2.5 2
12	3.5	3	5.5	3	3.5	2.5	2	2 1
16	6	3.5	6	4	5	3	3.5	2 2
20	8	4	12	4	6	4	4	3 2
24	11	4	17	4	9	4	6	3.5 2
30	11	4	17	4	9	4	6	3.5 2



NOTE:
THESE ARE MINIMUM STANDARDS. WHERE SOIL CONDITIONS DICTATE, ADJUSTMENTS IN SIZE SHALL BE MADE BY THE PUBLIC SERVICES DIRECTOR.

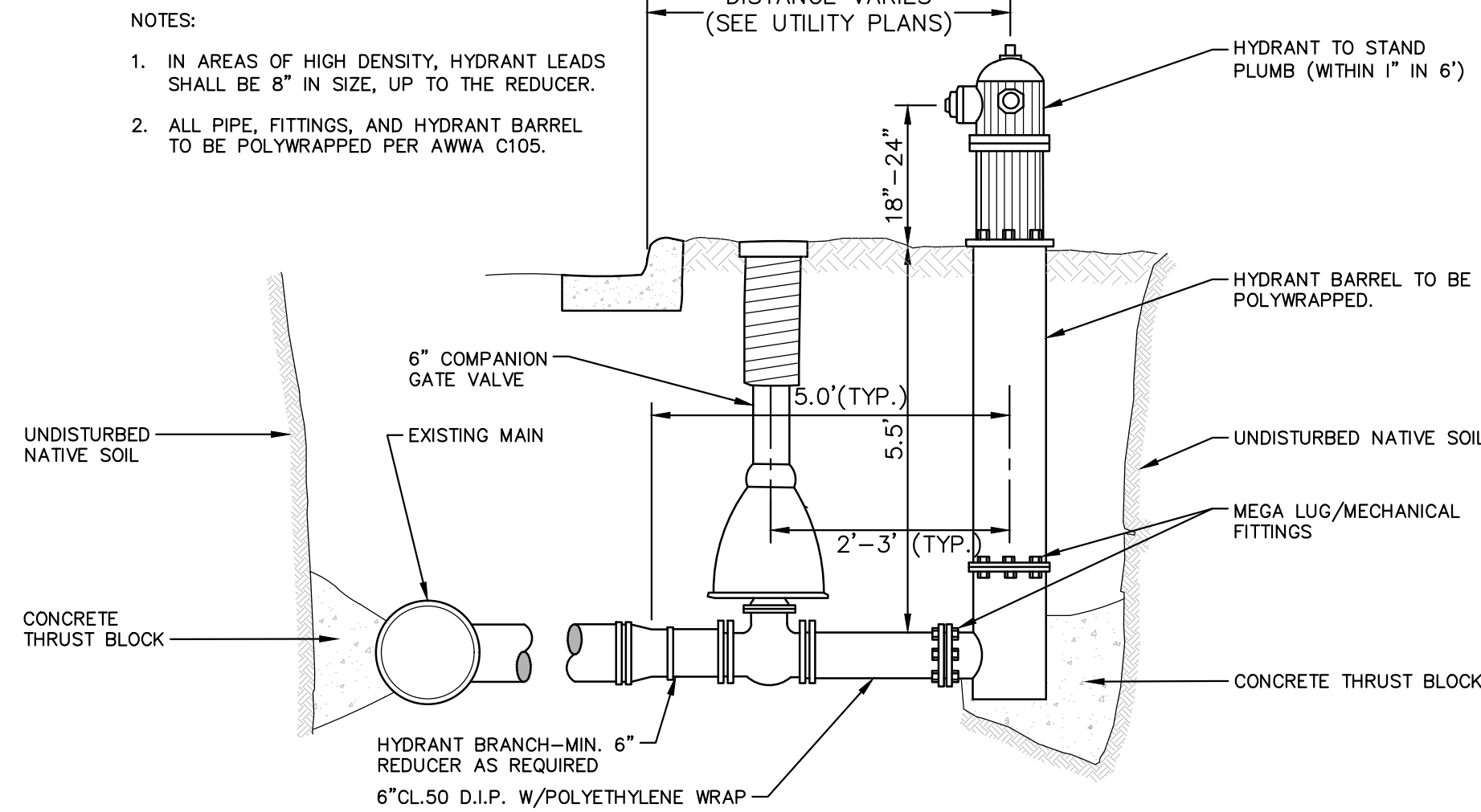
CITY OF ANN ARBOR STANDARD SD-W-2
APPLIES TO: SEE PLANS FOR LOCATIONS

THRUST BLOCK



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

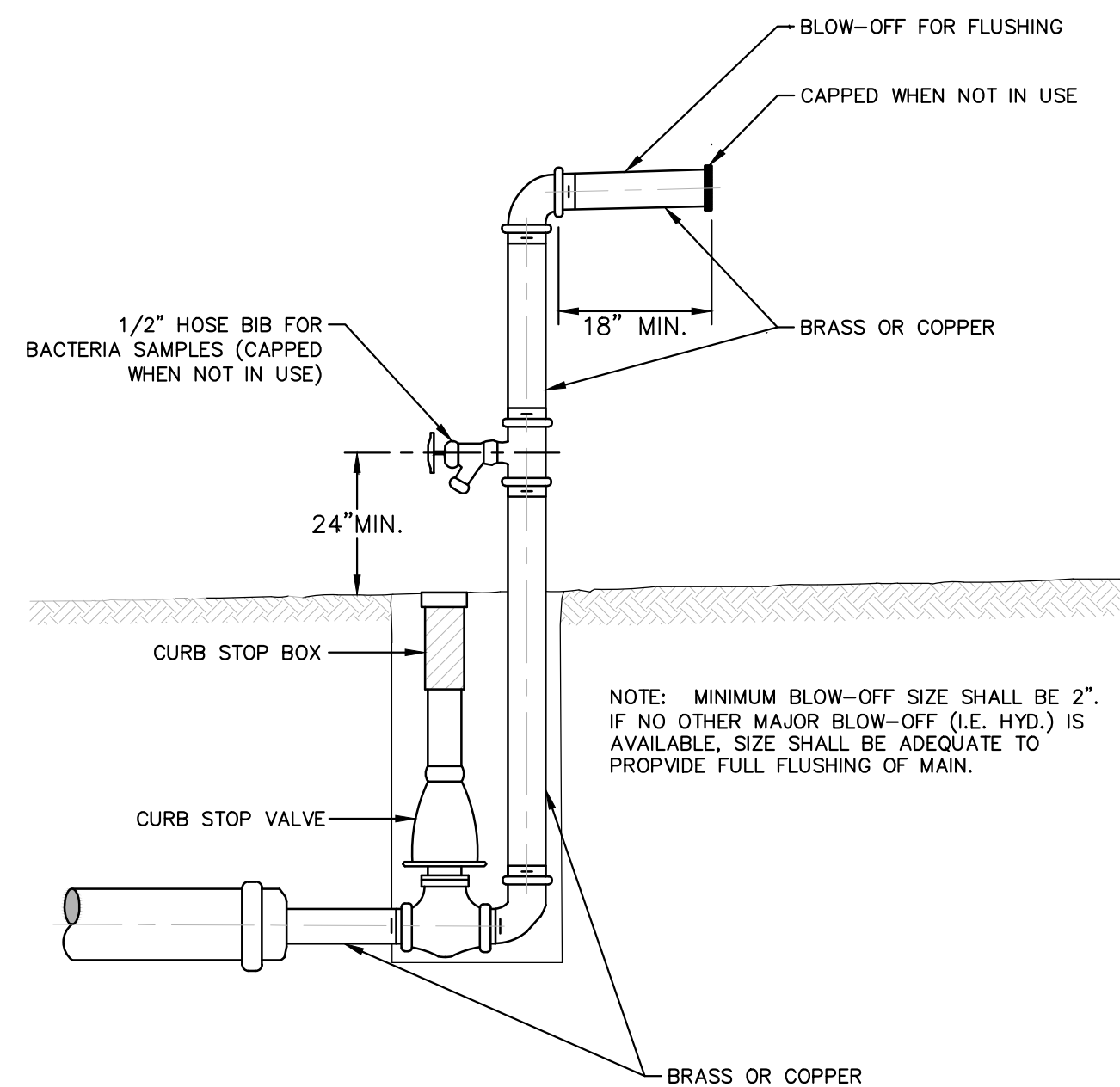
MANHOLE CASTING ADJUSTMENT SD-GU-6



NOTES:

1. IN AREAS OF HIGH DENSITY, HYDRANT LEADS SHALL BE 8" IN SIZE, UP TO THE REDUCER.
2. ALL PIPE, FITTINGS, AND HYDRANT BARREL TO BE POLYWRAPPED PER AWWA C105.

FIRE HYDRANT ASSEMBLY SD-W-1



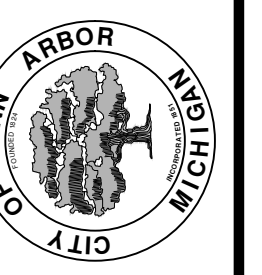
NOTE: MINIMUM BLOW-OFF SIZE SHALL BE 2". IF NO OTHER MAJOR BLOW-OFF (I.E. HYD.) IS AVAILABLE, SIZE SHALL BE ADEQUATE TO PROVIDE FULL FLUSHING OF MAIN.

TEMPORARY TESTING BLOW OFF SD-W-7

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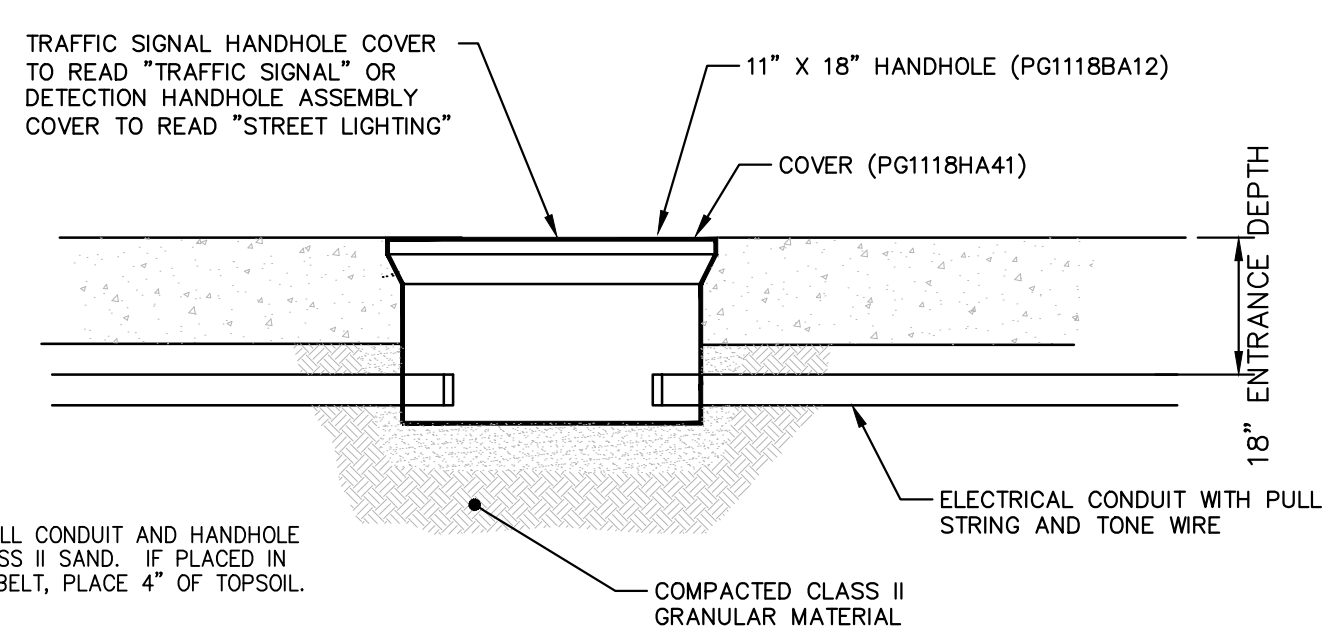


REV.	DATE	DESCRIPTION
01	03-24-17	AG.GSRG
00	03-08-17	AG.GSRG

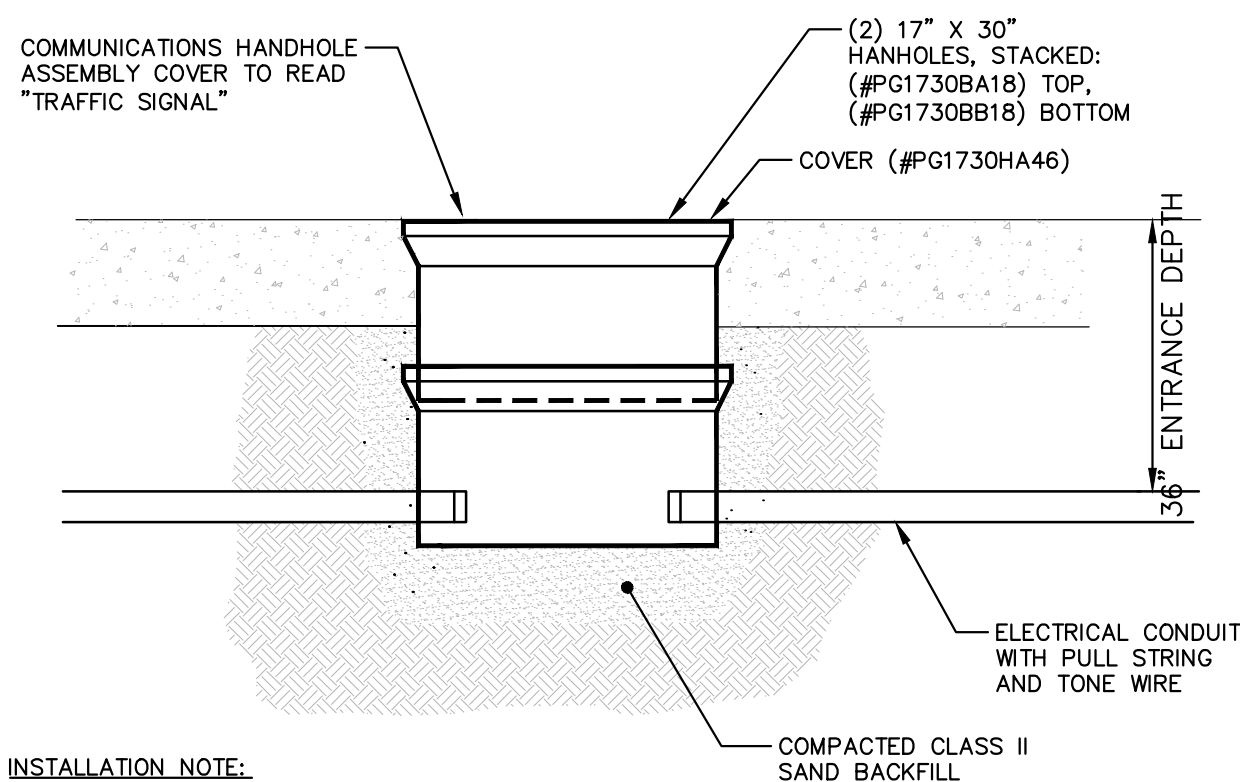


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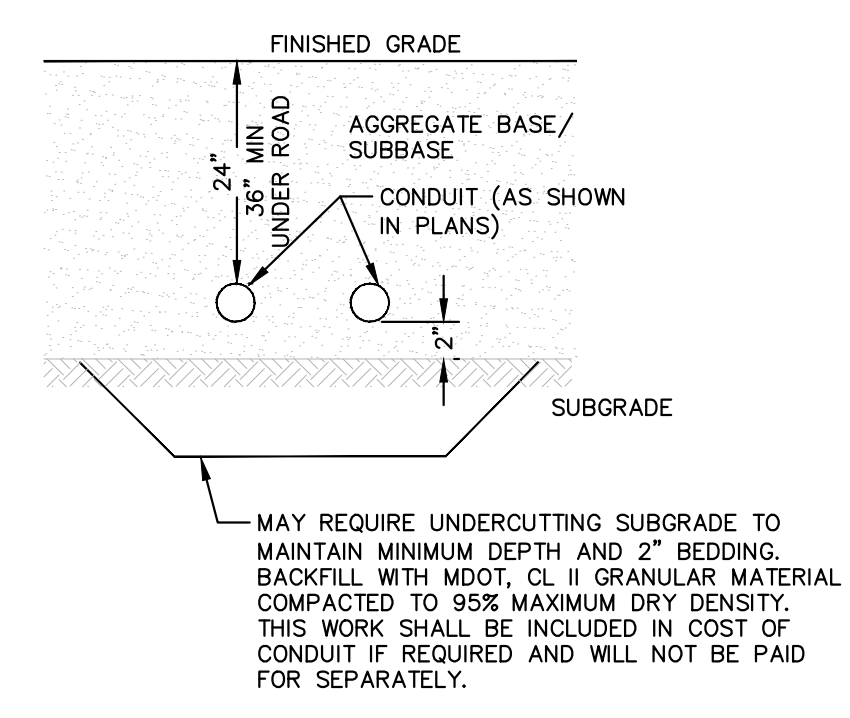
THE CONTRACTOR SHALL PROVIDE THE STREET LIGHTING DISCONNECT BOX/LIGHTING CONTROLLER SHOWN HERE AND AS SPECIFIED IN THE CONTRACT DOCUMENTS



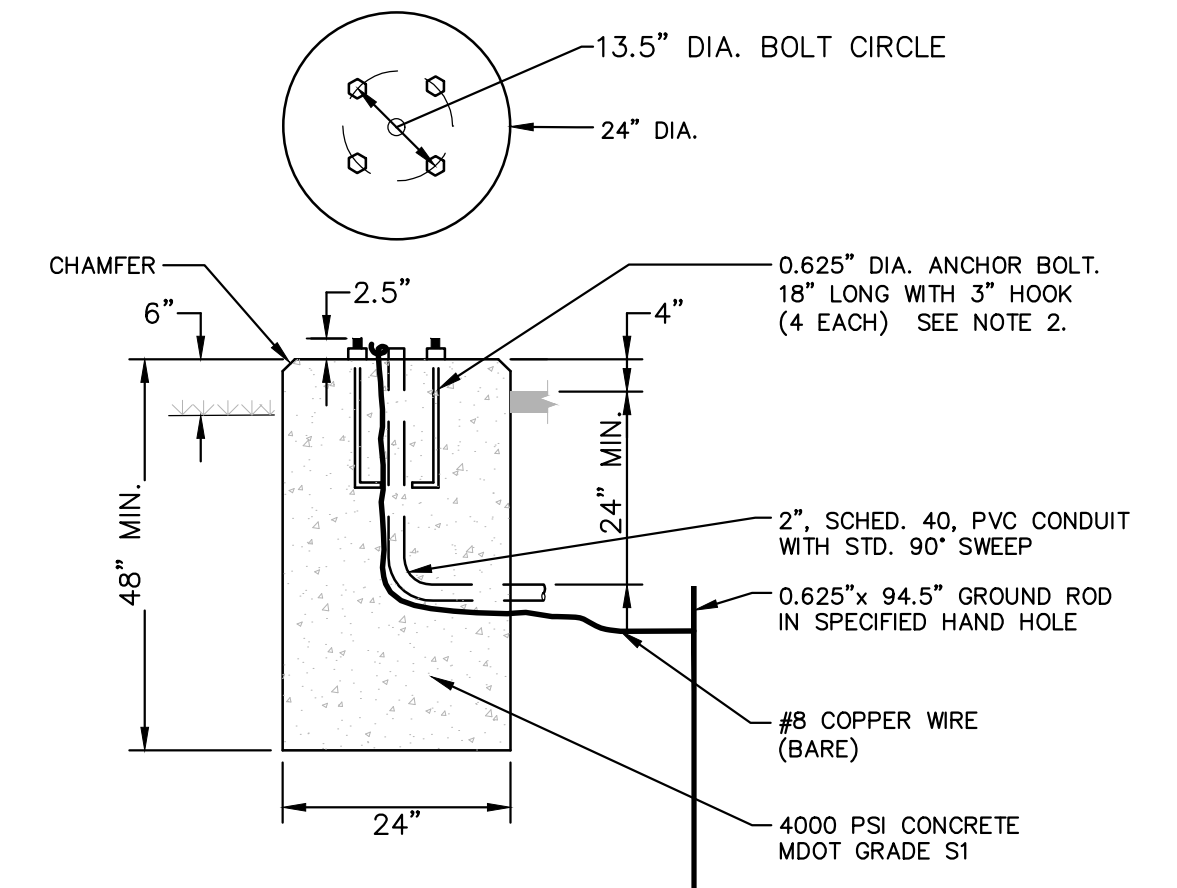
TRAFFIC SIGNAL OR ELECTRICAL HANDHOLE ASSEMBLY



COMMUNICATIONS HANDHOLE ASSEMBLY

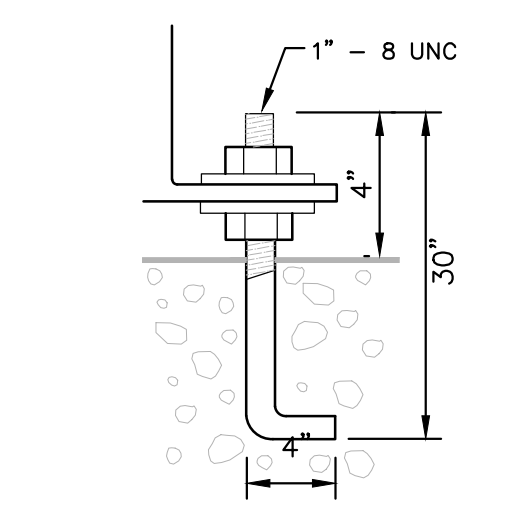


CONDUIT PLACEMENT DETAIL



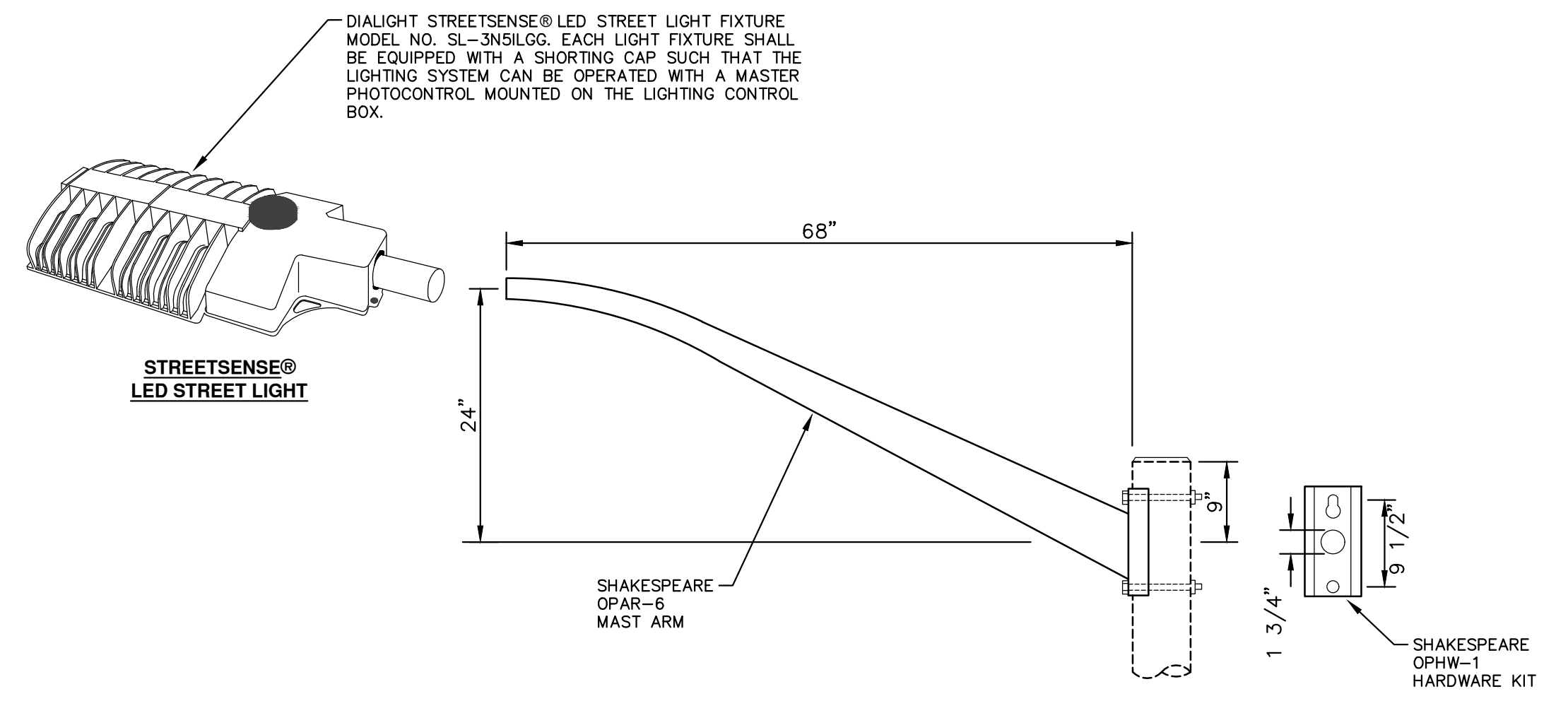
- NOTES:
- THE CITY WILL INSPECT THE AUGERED HOLE AND ANCHOR BOLT BUILD-UP, AND PROVIDE WRITTEN APPROVAL PRIOR TO THE PLACEMENT OF CONCRETE.
 - CONTRACTOR WILL PROVIDE NECESSARY CONDUIT FOR CONDUCTOR ENTRY. THIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE POLE BASE.

PEDESTRIAN SIGNAL POLE FOUNDATION SD-SL-3

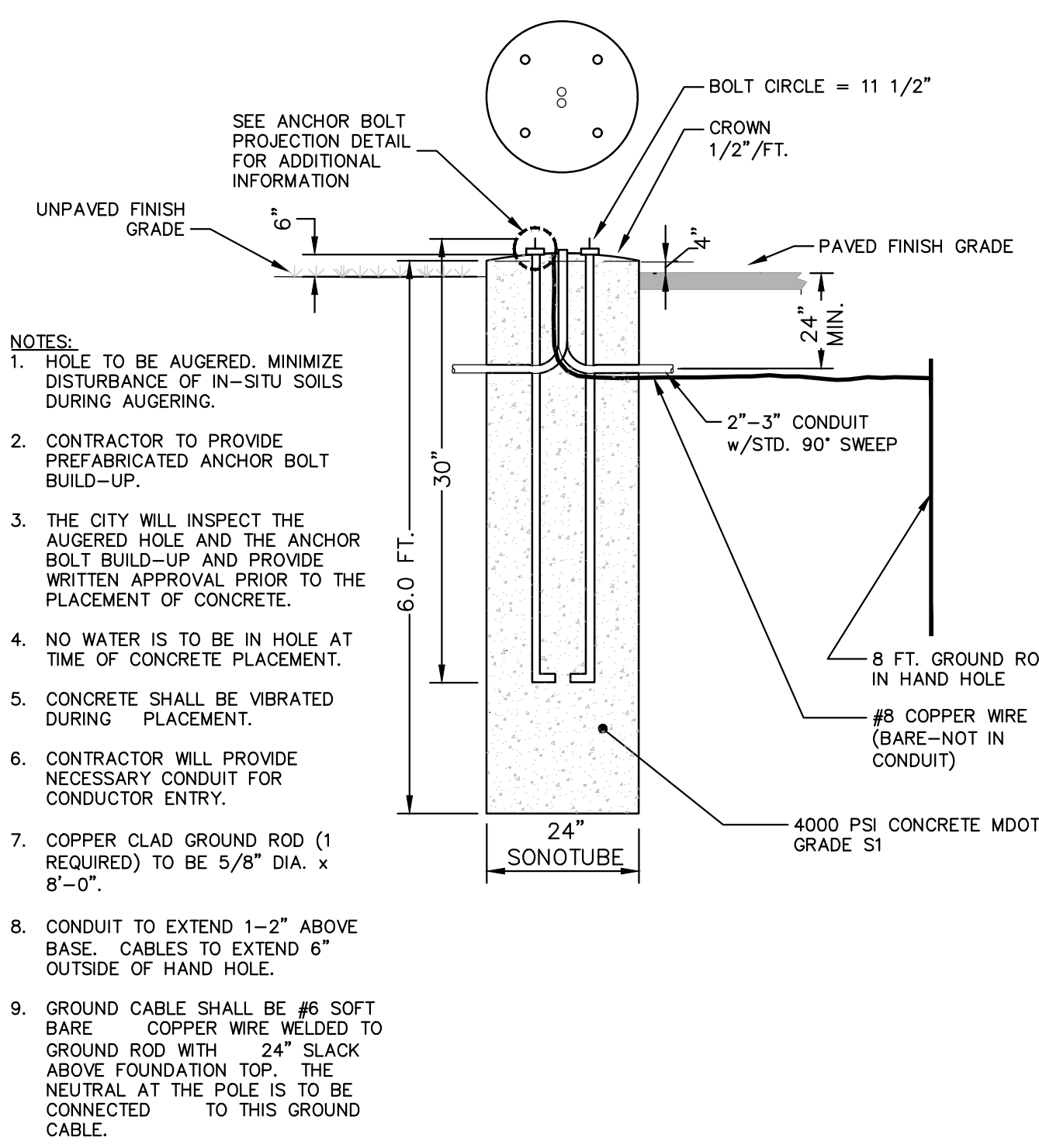


ANCHOR BOLT PROJECTION DETAIL

ALSO PROVIDE SHAKESPEARE OPAB-2035 ANCHOR BOLT KIT FOR EACH LIGHT POLE. ANCHOR BOLTS TO BE HOT-DIPPED GALVANIZED, 30" LONG, WITH 4" HOOK, AND A 4" PROJECTION ABOVE FOUNDATION.



NOTE: THE CONTRACTOR SHALL PROVIDE A COMPLETE, FULLY-FUNCTIONING, STREET LIGHT ASSEMBLY INCLUDING ALL WIRING, CONNECTIONS, TAPE, FUSES, AND ALL RELATED APPURTENANCES. ALL COSTS ASSOCIATED WITH THESE REQUIREMENTS SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "STREET LIGHT ASSEMBLY, COMPLETE."



- NOTES:
- HOLE TO BE AUGERED. MINIMIZE DISTURBANCE OF IN-SITU SOILS DURING AUGERING.
 - CONTRACTOR TO PROVIDE PREFABRICATED ANCHOR BOLT BUILD-UP.
 - THE CITY WILL INSPECT THE AUGERED HOLE AND THE ANCHOR BOLT BUILD-UP AND PROVIDE WRITTEN APPROVAL PRIOR TO THE PLACEMENT OF CONCRETE.
 - NO WATER IS TO BE IN HOLE AT TIME OF CONCRETE PLACEMENT.
 - CONCRETE SHALL BE VIBRATED DURING PLACEMENT.
 - CONTRACTOR WILL PROVIDE NECESSARY CONDUIT FOR CONDUCTOR ENTRY.
 - COPPER CLAD GROUND ROD (1 REQUIRED) TO BE 5/8" DIA. x 8'-0".
 - CONDUIT TO EXTEND 1-2" ABOVE BASE. CABLES TO EXTEND 6" OUTSIDE OF HAND HOLE.
 - GROUND CABLE SHALL BE #6 SOFT BARE COPPER WIRE WELDED TO GROUND ROD WITH 24" SLACK ABOVE FOUNDATION TOP. THE NEUTRAL AT THE POLE IS TO BE CONNECTED TO THIS GROUND CABLE.

STREETLIGHT FOUNDATION SD-SL-1

STREETLIGHT DETAIL

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

01	ADDENDUM #1	AG.GS.RG	03-24-17	DAD	CHECKED
00	BID SET	AG.GS.RG	03-08-17	DAD	DRAWN
			DATE		
				DESCRIPTION	
				REV.	

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017

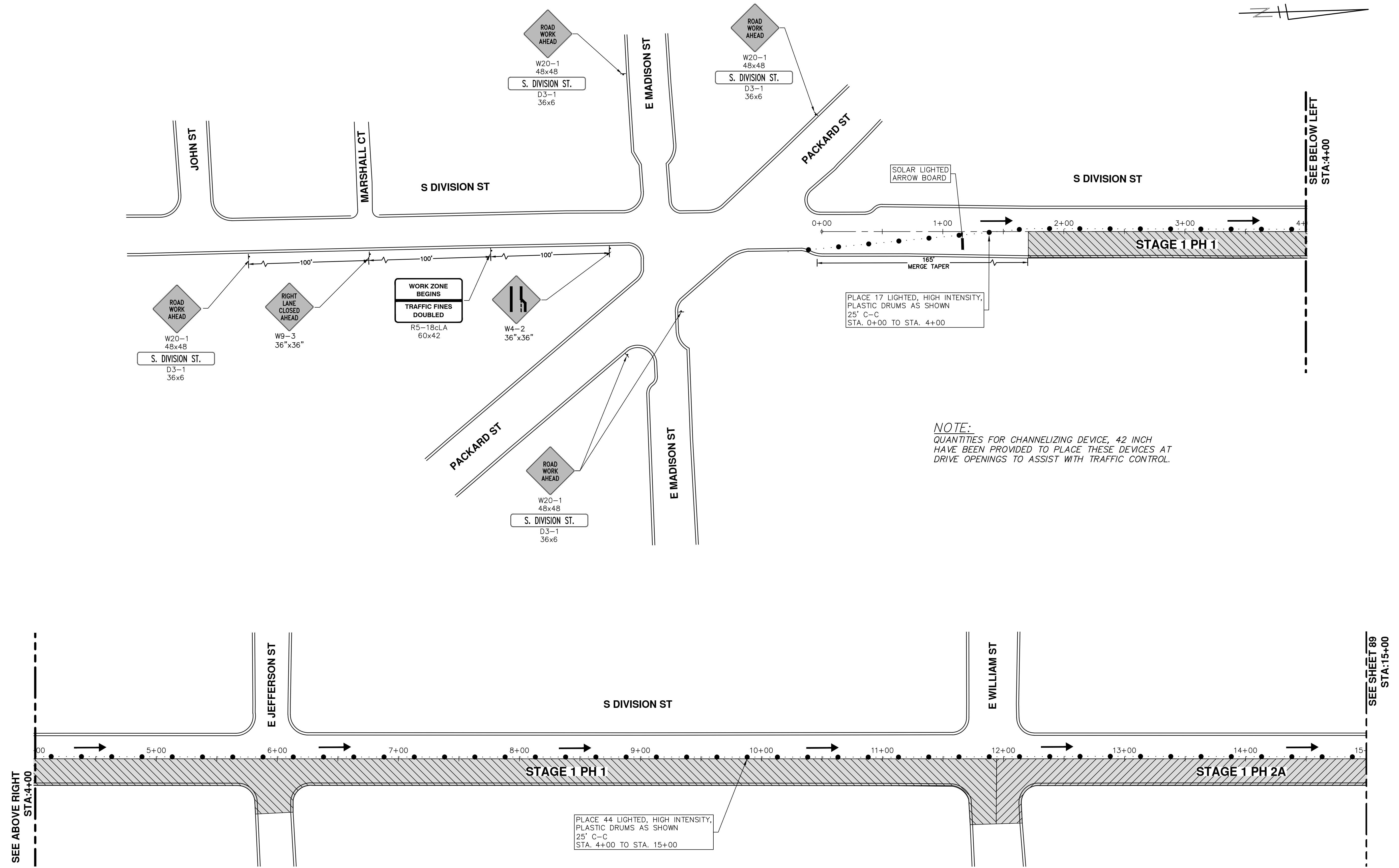
SCALE: NTS

DRAWING No. 2017004-87

SHEET No. 87 OF 136

LIGHTING DETAIL

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - S Division Street TRFC STAGE 1.dwg Dwg Created: 20-Jan-17 - _a2 standard bw.stb - Plot Date: 27-Mar-17



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 ANN ARBOR: 734-794-4410
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ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 STAGE 1

SCALE PLAN: 1" = 40'
 DRAWING No. 2017004-88

SHEET No. 88 OF 136

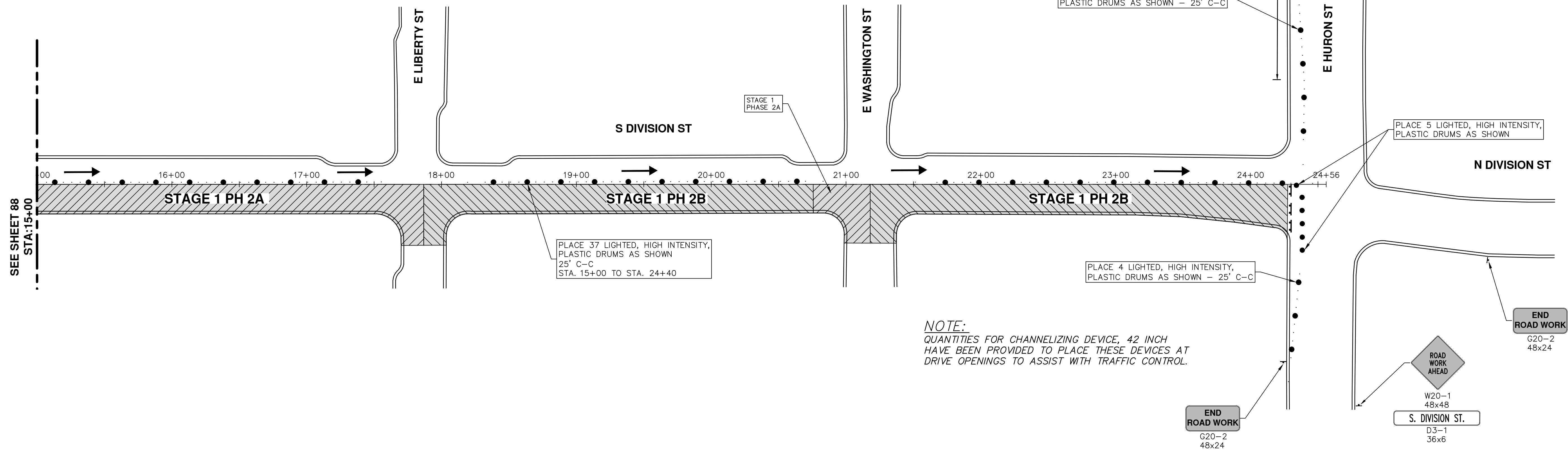
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STAGING NOTES:

STAGING NOTES:

STAGE 1

- PHASE 1
 1. INSTALL LEAD IN TRAFFIC CONTROL DEVICES AND SIGNING
 2. CLOSE DIVISION PART-WIDTH BETWEEN PACKARD AND WILLIAM
 3. CONTACT FIELD SERVICES TO COORDINATE REMOVAL OF THE TRAFFIC DETECTION PUCKS IN ALL OF THE INTERSECTIONS
 4. CONSTRUCT WATER MAIN AND BUMPOUT AT THE SOUTHEAST QUADRANT OF JEFFERSON/DIVISION AND COMPLETE CURB REPAIRS WITHIN THIS PHASE.
 5. UPON PASSING WATER MAIN TESTS, CONSTRUCT WATER SERVICE LEADS PART WIDTH AND RESTORE TRENCHES.
 - BEGIN CONSTRUCTION OF BUMPOUT AT THE NORTHEAST QUADRANT OF JEFFERSON/DIVISION.
- PHASE 2
 1. IMPLEMENT LANE CLOSURES AND DETOURS FOR WILLIAMS, LIBERTY AND WASHINGTON AND EXTEND PART-WIDTH CLOSURE OF DIVISION TO EAST HURON
 2. CONSTRUCT BUMPOUTS AND COMPLETE CURB REPAIRS.
 - PLACE HAND PATCHING, HMA LVSP TO RESTORE PEDESTRIAN AND VEHICLE TRAFFIC PRIOR TO SHIFTING TRAFFIC ON INTERSECTING SIDESTREETS.
 - MAINTAIN LANE CLOSURES ON SIDESTREETS THRU THE REMAINDER OF THE PROJECT.
- PHASE 3
 1. LOWER STRUCTURES IF NOT COMPLETED DURING PREVIOUS PHASE
 2. PLACE SIGNS AND TRAFFIC CONTROL DEVICES TO CLOSE SOUTH LANE OF EAST HURON
 3. MILL HMA FROM POB TO EAST HURON (POE)
 4. COMPLETE ANY DETAIL 7 AND 8 JOINT REPAIRS NECESSARY
 5. PLACE HMA LEVELING FROM POB TO POE
 6. RAISE ALL STRUCTURES
 7. INSTALL GEOSYNTHETIC PAVING LAYER FROM POB TO POE
 8. PLACE HMA TOP COURSE FROM POB TO POE
 9. REMOVE LANE CLOSURE FROM EAST HURON
 10. INSTALL TEMPORARY STOP BARS



NOTE:
 QUANTITIES FOR CHANNELIZING DEVICE, 42 INCH
 HAVE BEEN PROVIDED TO PLACE THESE DEVICES AT
 DRIVE OPENINGS TO ASSIST WITH TRAFFIC CONTROL.

811
 Know what's below.
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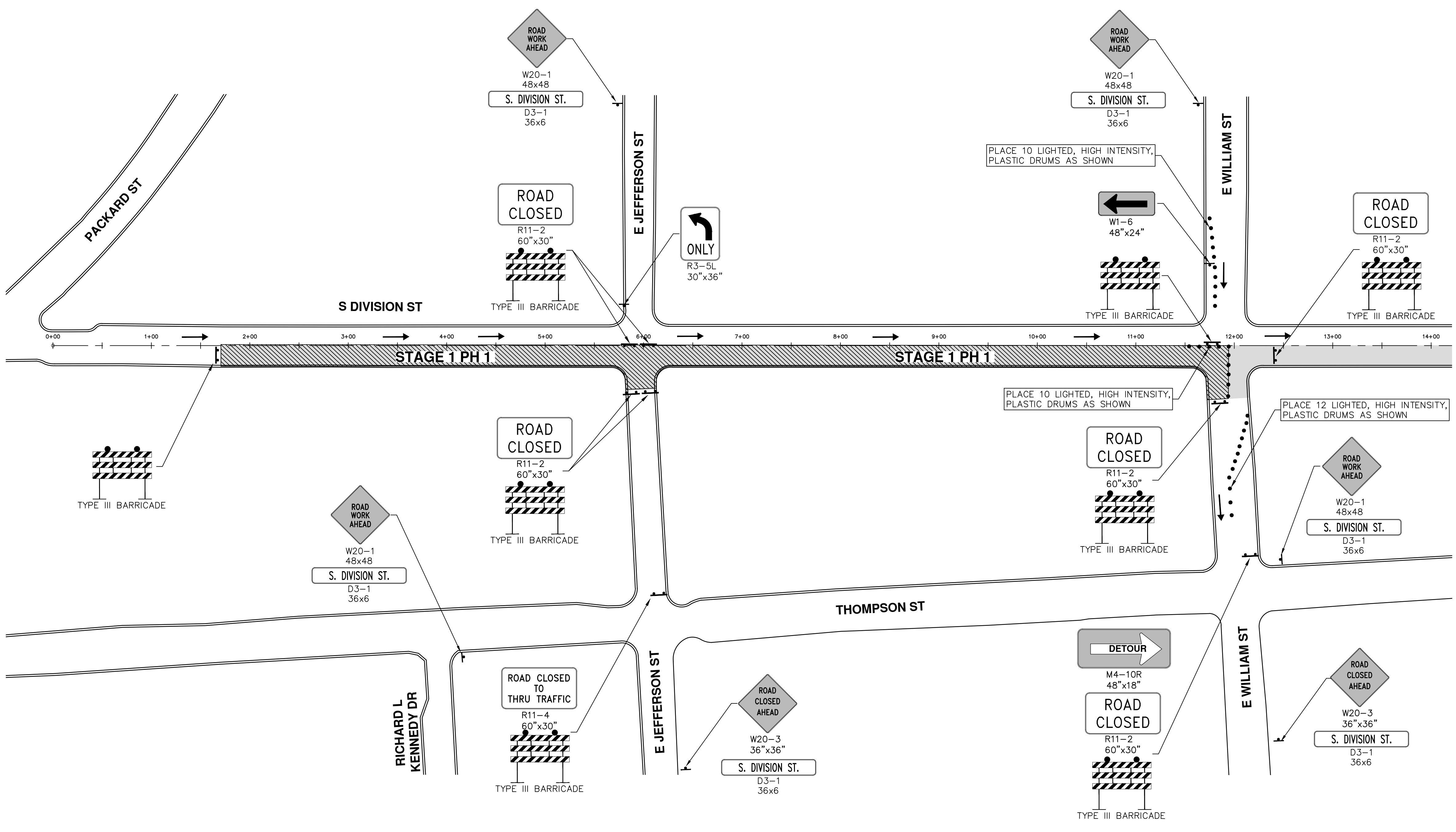
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03-24-17	03-08-17	DATE
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00	BID SET	REV.


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 ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 STAGE 1


SCALE PLAN: 1" = 40'
 DRAWING No. 2017004-89
 SHEET No. 89 OF 136

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - S Division Street TRFC STAGE 1 PH 1.dwg Dwg Created: 20-Jan-17 - _a2 standard bw.stb - Plot Date: 27-Mar-17



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DAD	CHECKED

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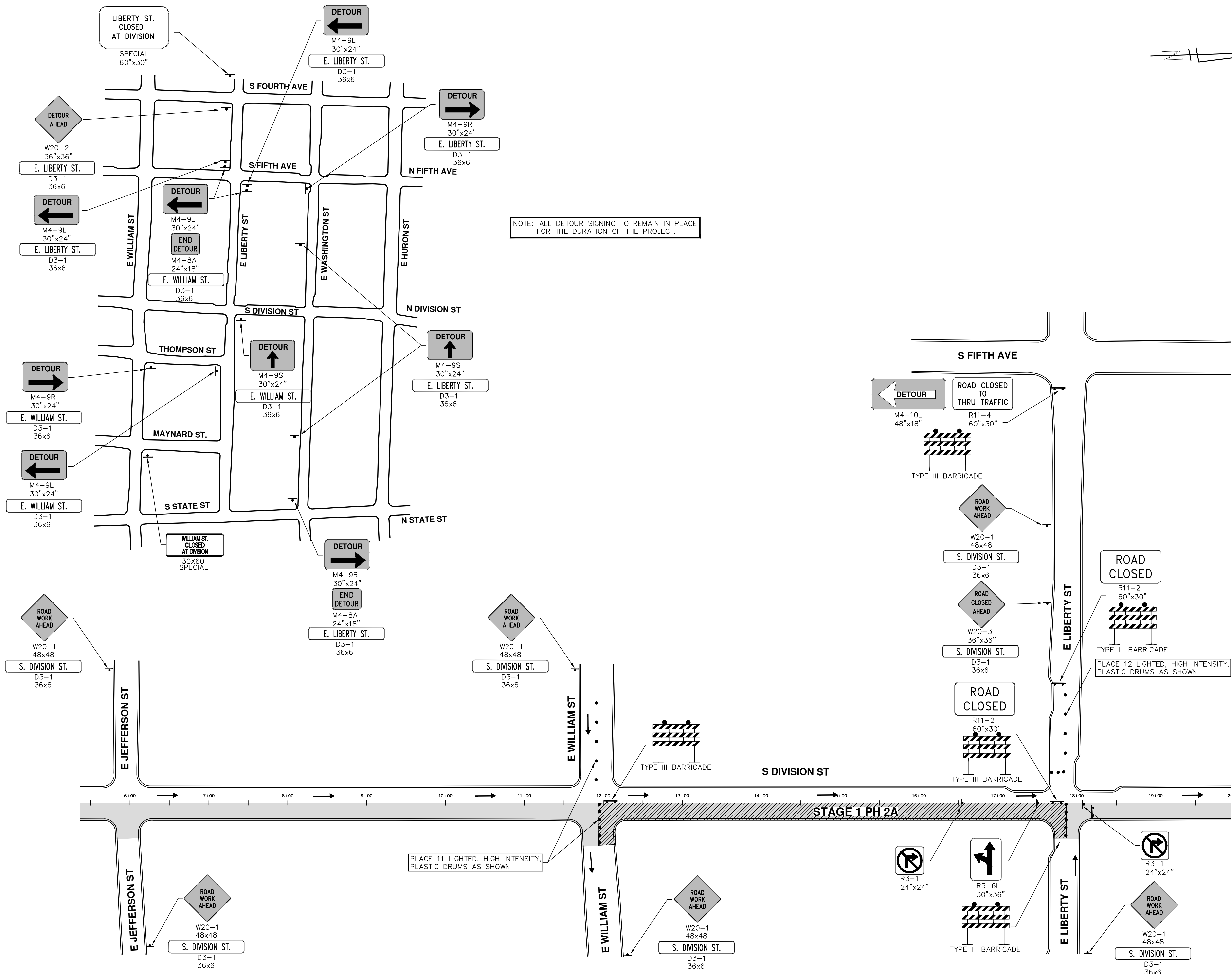


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 INTERSECTION PHASING - STAGE 1 PHASE 1

SCALE PLAN: 1" = 60'
 DRAWING No. 2017004-90

SHEET No. 90 OF 136

S:\Project Management\Drafting\outocad\2017004\Plan Production\Major Streets\2017004 - S Division Street TRFC STAGE 1 PH 2A.dwg Dwg Created: 20-Jan-17 --_a2 standard bw.stb -- Plot Date: 27-Mar-17



NOTE: ALL DETOUR SIGNING TO REMAIN IN PLACE FOR THE DURATION OF THE PROJECT.

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00	03-08-17	AG.GS.RG

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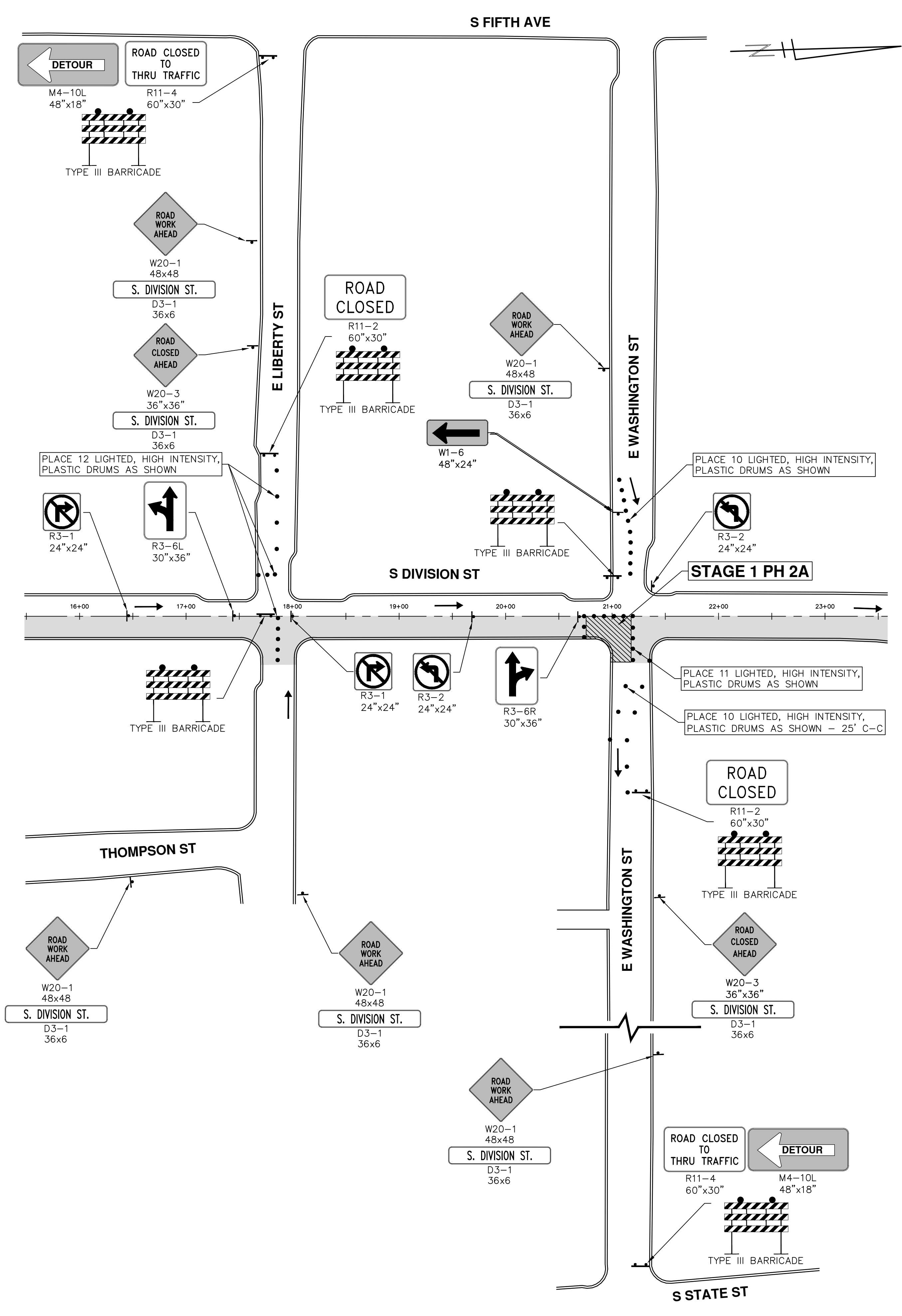
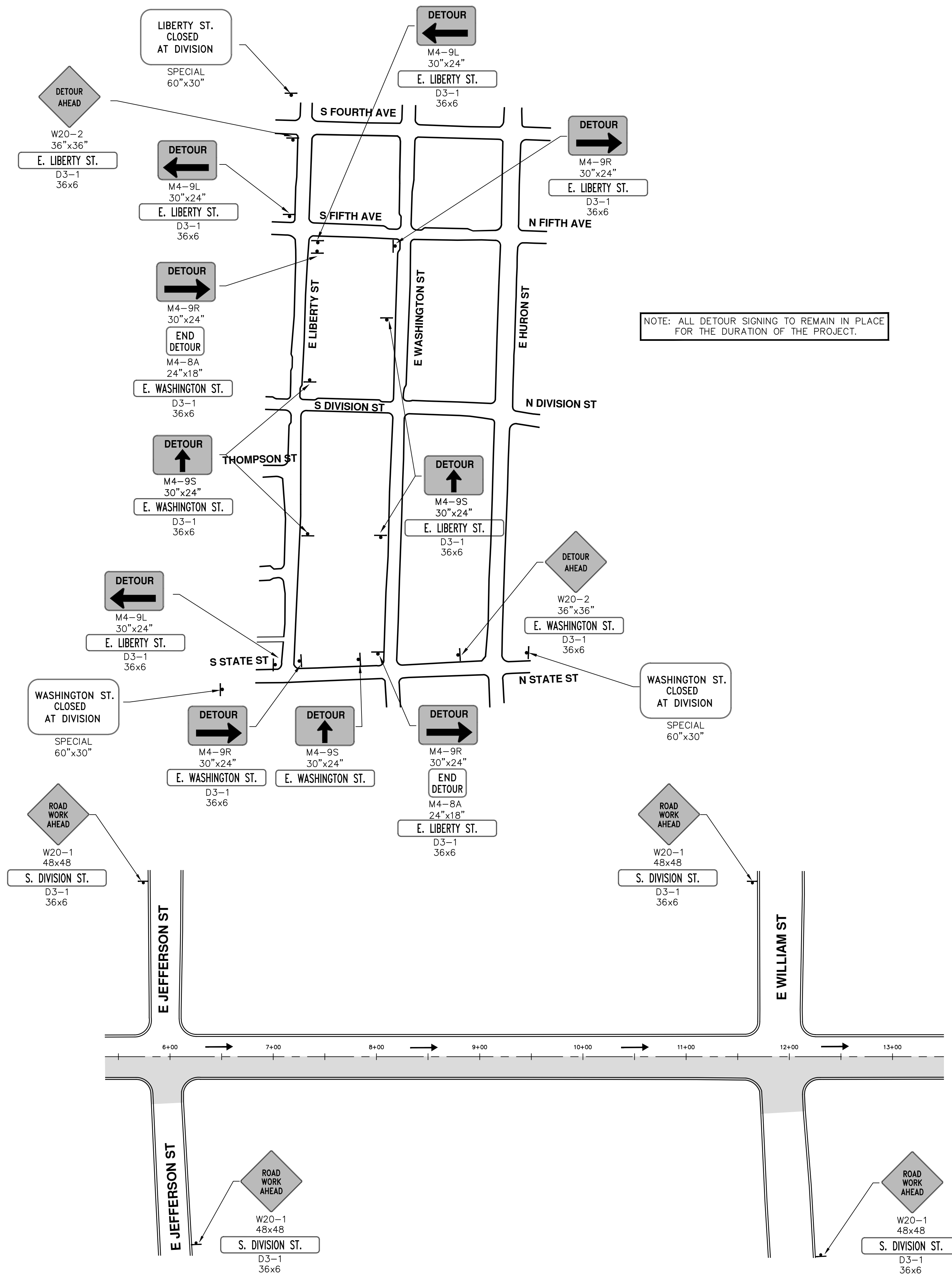
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S DIVISION STREET

INTERSECTION PHASING - STAGE 1 PHASE 2A

SCALE PLAN: 1" = 60'
DRAWING No. 2017004-91

SHEET No. 91 OF 136

S:\Project Management\Drafting\outocad\2017004\Plan Production\Major Streets\2017004 - S Division Street TRFC STAGE 1 PH 2A 1.dwg Dwg Created: 20-Jan-17 --_02 standard bw.stb
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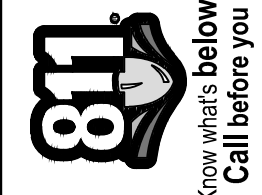
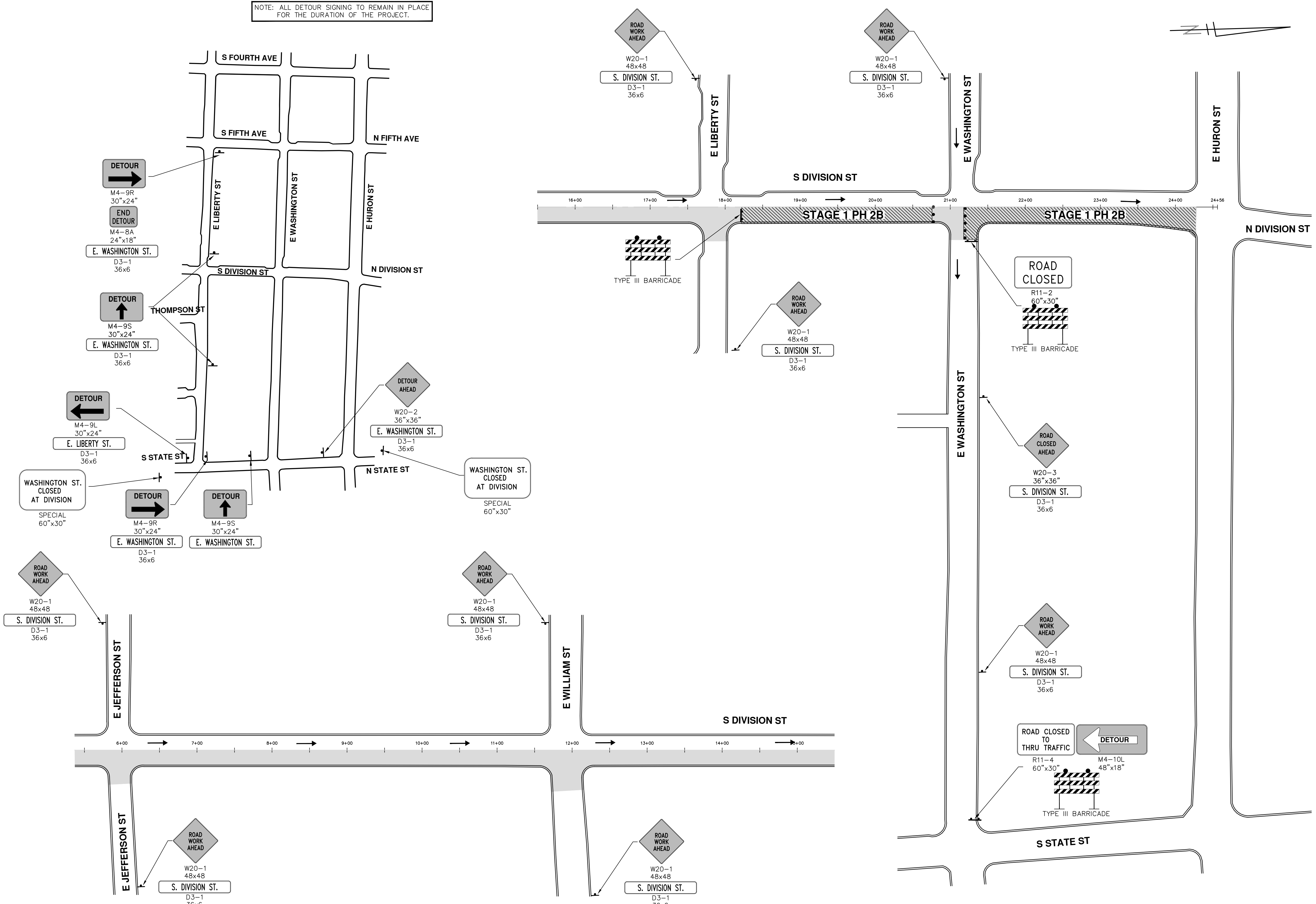
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00	03-08-17	AG.GS.RG
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		DAD
		CHECKED

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ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 INTERSECTION PHASING - STAGE 1 PHASE 2A

SCALE PLAN: 1" = 60'
 DRAWING No. 2017004-92
 SHEET No. 92 OF 136

NOTE: ALL DETOUR SIGNING TO REMAIN IN PLACE FOR THE DURATION OF THE PROJECT.



REV.	DATE	DESCRIPTION
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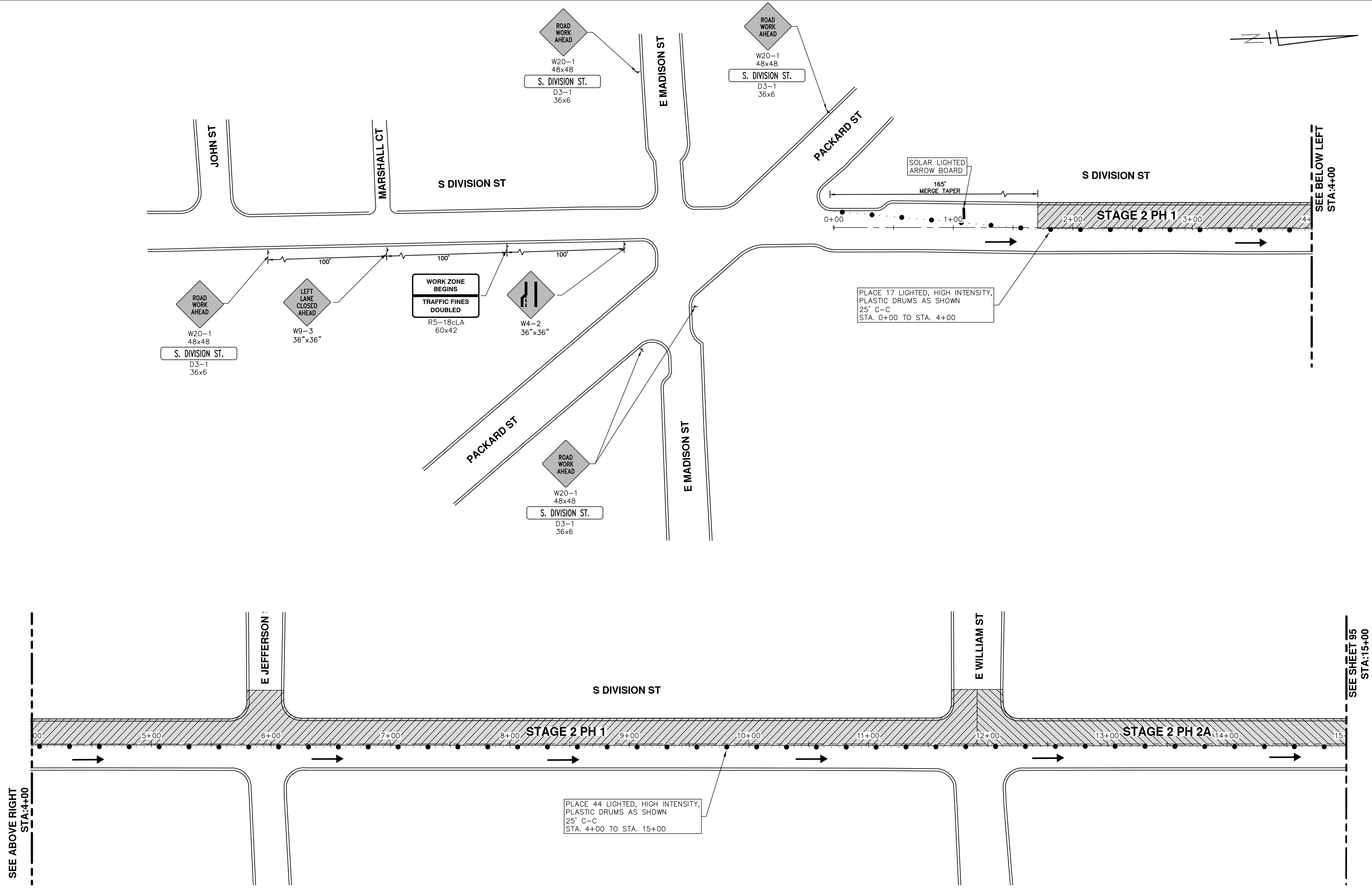
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S DIVISION STREET
INTERSECTION PHASING - STAGE 1 PHASE 2B

SCALE PLAN: 1" = 60'
DRAWING No. 2017004-93

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 STAGE 2

SCALE PLAN: 1" = 40'
 DRAWING No. 2017004-94

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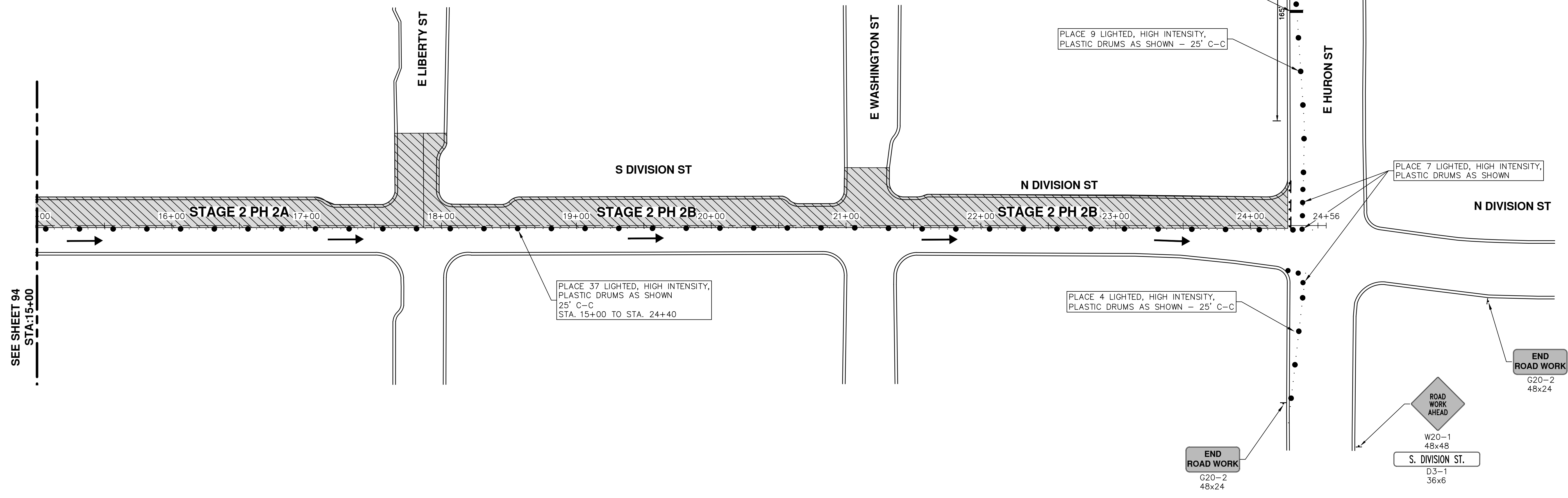
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00	BID SET	03-08-17	AG.GSRG	DAD

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STAGING NOTES:

STAGE II

- PHASE 1
 1. INSTALL TRAFFIC CONTROL DEVICES AND SIGNING TO SWITCH THE PART-WIDTH CLOSURE OF DIVISION BETWEEN PACKARD AND EAST HURON
 2. COMPLETE INSTALLATION OF HYDRANT AND LEADS AND ALL CONCRETE WORK WITH THE EXCEPTION OF THE BUMPOUT AT THE SOUTHWEST QUADRANT OF WILLIAM/DIVISION
 - PLACE HAND PATCHING, HMA LVSP TO RESTORE PEDESTRIAN AND VEHICLE TRAFFIC PRIOR TO SHIFTING TRAFFIC ON INTERSECTING SIDESTREETS.
 - UPON COMPLETION, ABANDON 4" WATER MAIN
 3. UPON ABANDONING THE WATER MAIN, COMPLETE CONSTRUCTION OF BUMPOUT AT THE SOUTHWEST QUADRANT OF WILLIAM/DIVISION.
- PHASE 2
 1. CONSTRUCT BUMPOUTS AND COMPLETE CURB REPAIRS.
 - PLACE HAND PATCHING, HMA LVSP TO RESTORE PEDESTRIAN AND VEHICLE TRAFFIC PRIOR TO SHIFTING TRAFFIC ON INTERSECTING SIDESTREETS.
 - CONTINUE TO MAINTAIN LANE CLOSURES ON SIDESTREETS THRU THE REMAINDER OF THE PROJECT.
- PHASE 3
 1. LOWER STRUCTURES IF NOT COMPLETED DURING PREVIOUS PHASES
 2. PLACE SIGNS AND TRAFFIC CONTROL DEVICES TO CLOSE SOUTH LANE OF EAST HURON
 3. MILL HMA FROM POB TO EAST HURON (POE)
 4. COMPLETE ANY DETAIL 7 AND 8 JOINT REPAIRS NECESSARY
 5. PLACE HMA LEVELING FROM POB TO POE
 6. RAISE ALL STRUCTURES
 7. INSTALL GEOSYNTHETIC PAVING LAYER FROM POB TO POE
 8. PLACE HMA TOP COURSE FROM POB TO POE
 9. REMOVE LANE CLOSURE FROM EAST HURON
 10. INSTALL PERMANENT PAVEMENT MARKINGS



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ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 STAGE 2

SCALE PLAN: 1" = 40'
 DRAWING No. 2017004-95

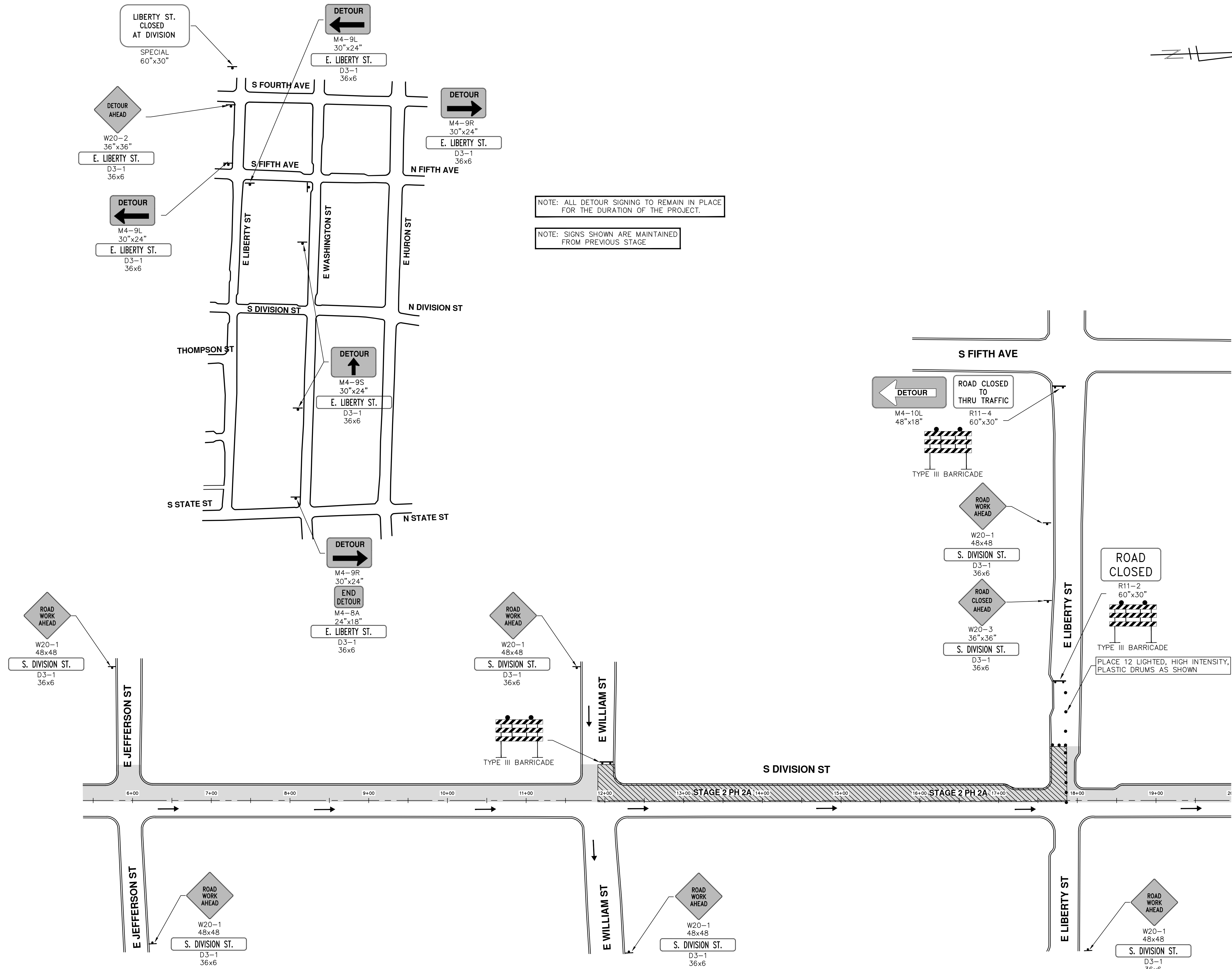
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01	03-24-17	AG.GS.RG
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		DAD
		CHECKED
		DRAWN

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - S Division Street TRFC STAGE 2 PH 2A.dwg Dwg Created: 20-Jan-17 - _a2 standard bw.stb - Plot Date: 27-Mar-17



REV.	DATE	DESCRIPTION
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00	03-08-17	AG.GS.RG
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		DAD
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		DRAWN

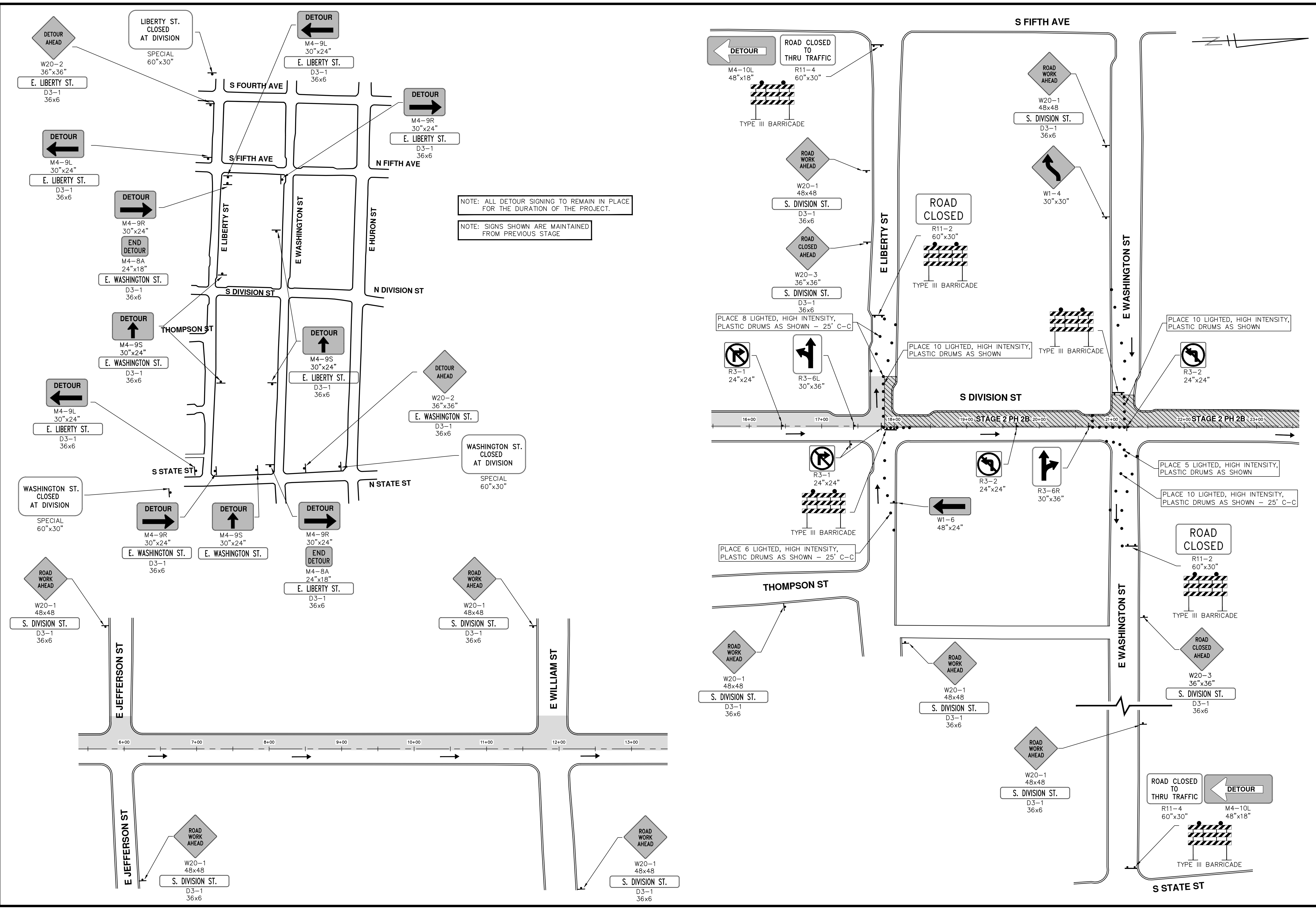
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 INTERSECTION PHASING - STAGE 2 PHASE 2A

SCALE PLAN: 1" = 60'
 DRAWING No. 2017004-96
 SHEET No. 96 OF 136

S:\Project Management\Drafting\outocad\2017004\Plan Production\Major Streets\2017004 - S Division Street TRFC STAGE 2 PH 2B.dwg Dwg Created: 20-10-17 - _a2 standard bw.stb - Plot Date: 27-Mar-17



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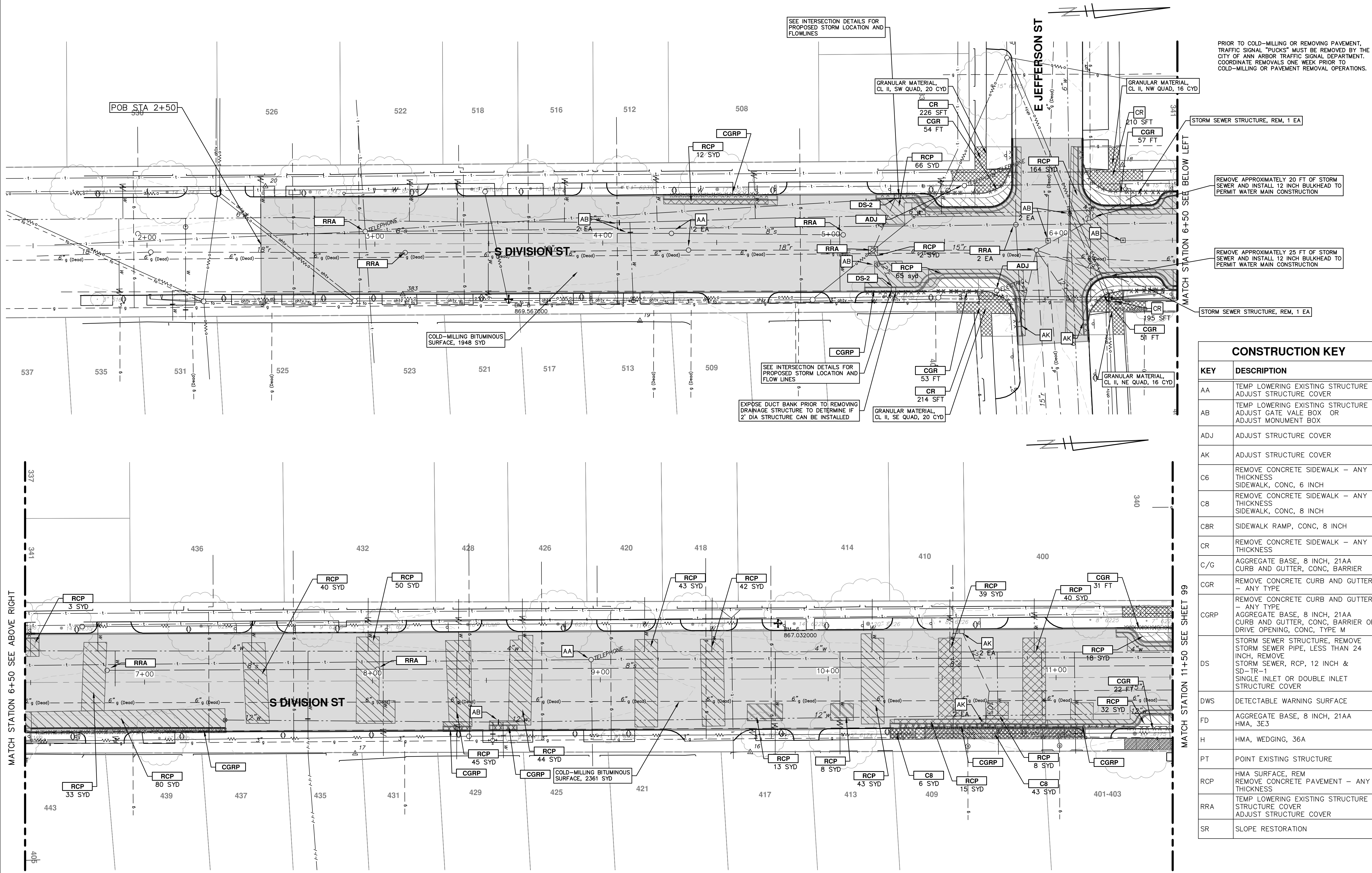
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00	03-08-17	AG.GS.RG

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S DIVISION STREET
INTERSECTION PHASING - STAGE 2 PHASE 2B

SCALE PLAN: 1" = 60'
DRAWING No. 2017004-97
SHEET No. 97 OF 136

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SEE INTERSECTION DETAILS FOR PROPOSED STORM LOCATION AND FLOWLINES

SEE INTERSECTION DETAILS FOR PROPOSED STORM LOCATION AND FLOW LINES

EXPOSE DUCT BANK PRIOR TO REMOVING DRAINAGE STRUCTURE TO DETERMINE IF 2' DIA STRUCTURE CAN BE INSTALLED

PRIOR TO COLD-MILLING OR REMOVING PAVEMENT, TRAFFIC SIGNAL "PLUCKS" MUST BE REMOVED BY THE CITY OF ANN ARBOR TRAFFIC SIGNAL DEPARTMENT. COORDINATE REMOVALS ONE WEEK PRIOR TO COLD-MILLING OR PAVEMENT REMOVAL OPERATIONS.

STORM SEWER STRUCTURE, REM, 1 EA

REMOVE APPROXIMATELY 20 FT OF STORM SEWER AND INSTALL 12 INCH BULKHEAD TO PERMIT WATER MAIN CONSTRUCTION

REMOVE APPROXIMATELY 25 FT OF STORM SEWER AND INSTALL 12 INCH BULKHEAD TO PERMIT WATER MAIN CONSTRUCTION

STORM SEWER STRUCTURE, REM, 1 EA

CONSTRUCTION KEY	
KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION

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Know what's below. Call before you dig.

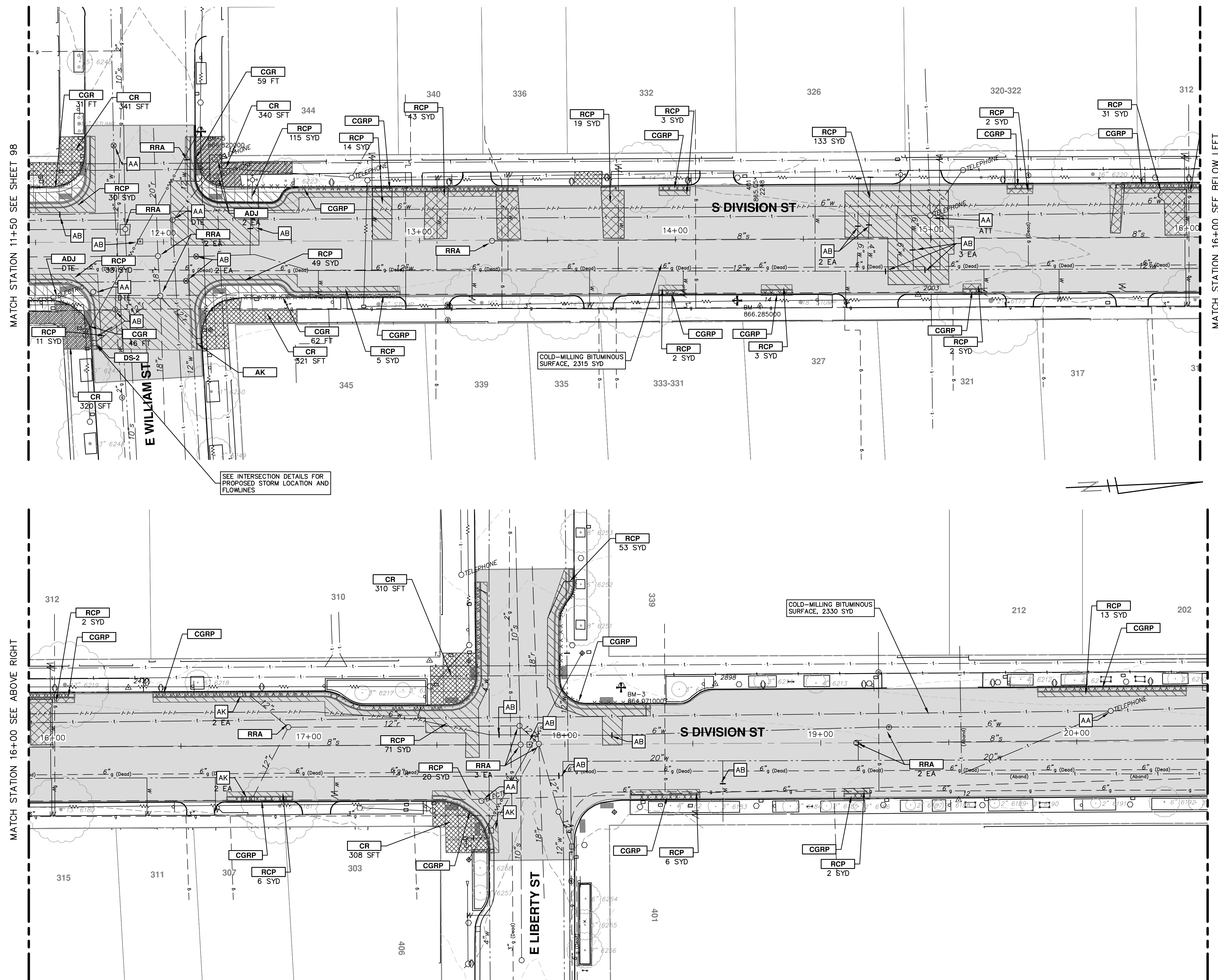
01 AG.CS.RG 03-24-17
00 BID SET 03-08-17
REV. DATE DESCRIPTION

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S DIVISION STREET

REM 1+50 TO 11+50
PROFILE: 1" = 2'
DRAWING No. 2017004-98
SHEET No. 98 OF 136

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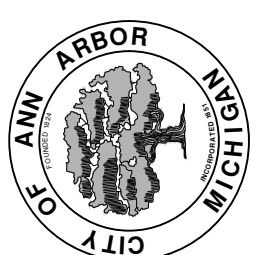
PRIOR TO COLD-MILLING OR REMOVING PAVEMENT, TRAFFIC SIGNAL 'PUCKS' MUST BE REMOVED BY THE CITY OF ANN ARBOR TRAFFIC SIGNAL DEPARTMENT. COORDINATE REMOVALS ONE WEEK PRIOR TO COLD-MILLING OR PAVEMENT REMOVAL OPERATIONS.

CONSTRUCTION KEY	
KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE STRUCTURE COVER ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 REM 11+50 TO 20+50

SCALE PLAN: 1" = 20'
 PROFILE: 1" = 2'

DRAWING No. 2017004-99
 SHEET No. 99 OF 136

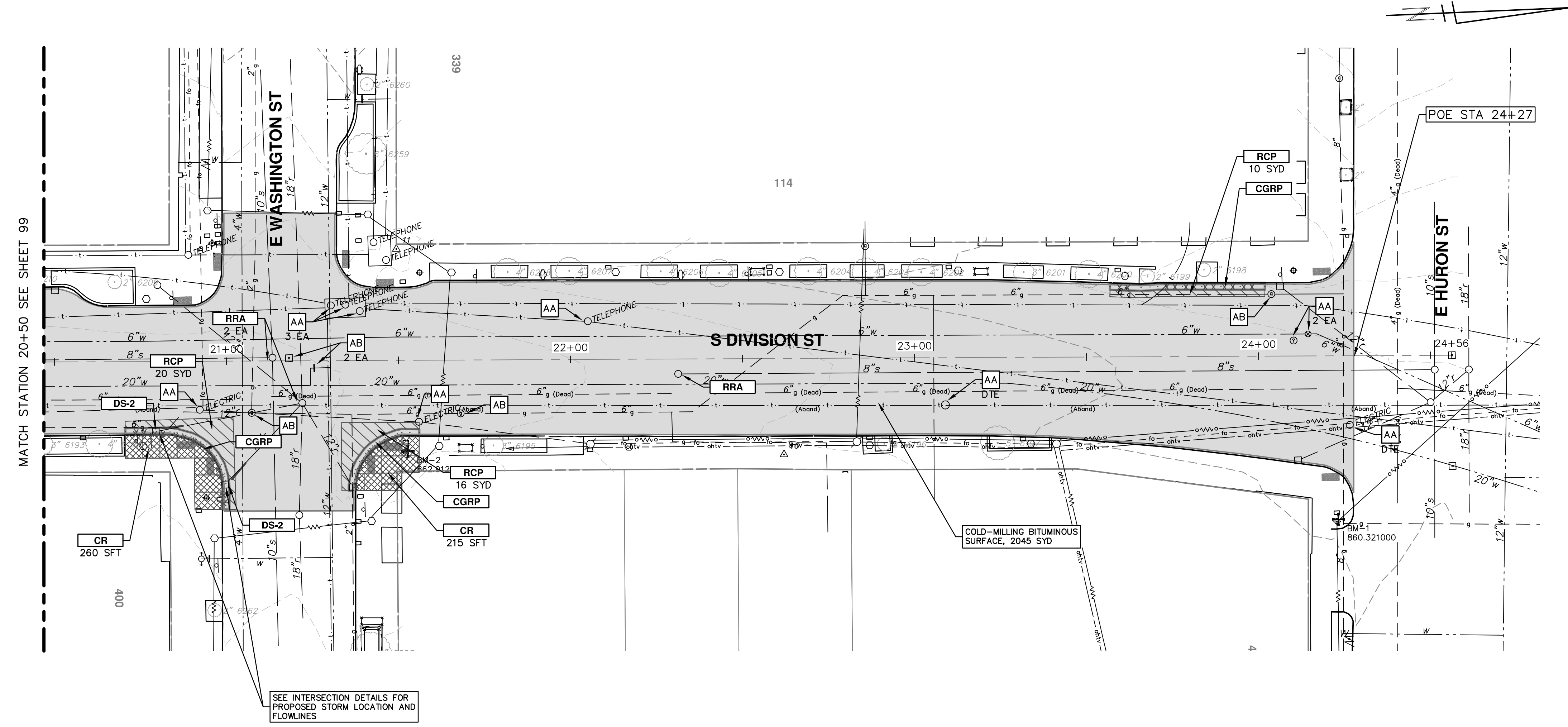


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PRIOR TO COLD-MILLING OR REMOVING PAVEMENT, TRAFFIC SIGNAL "PUCKS" MUST BE REMOVED BY THE CITY OF ANN ARBOR TRAFFIC SIGNAL DEPARTMENT. COORDINATE REMOVALS ONE WEEK PRIOR TO COLD-MILLING OR PAVEMENT REMOVAL OPERATIONS.

CONSTRUCTION KEY	
KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE STRUCTURE COVER ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 REM 20+50 TO 24+50

SCALE PLAN: 1" = 20'
 PROFILE: 1" = 2'

DRAWING No. 2017004-100

SHEET No. 100 OF 136

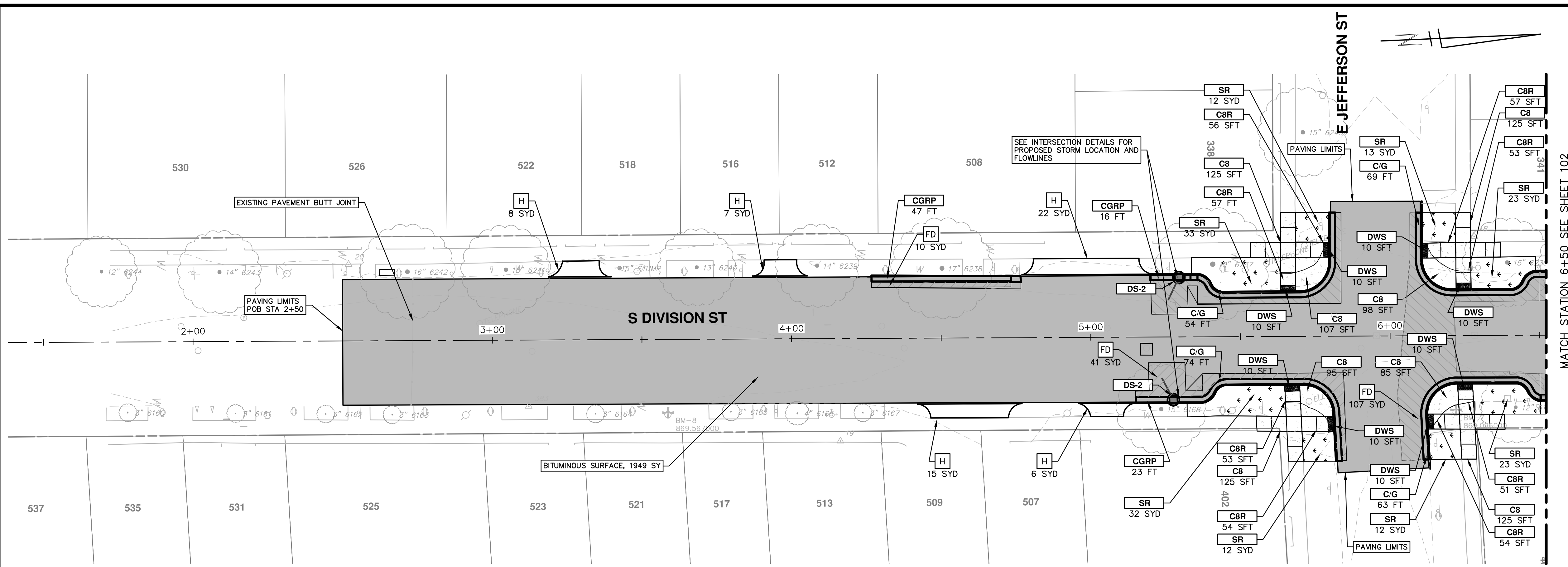
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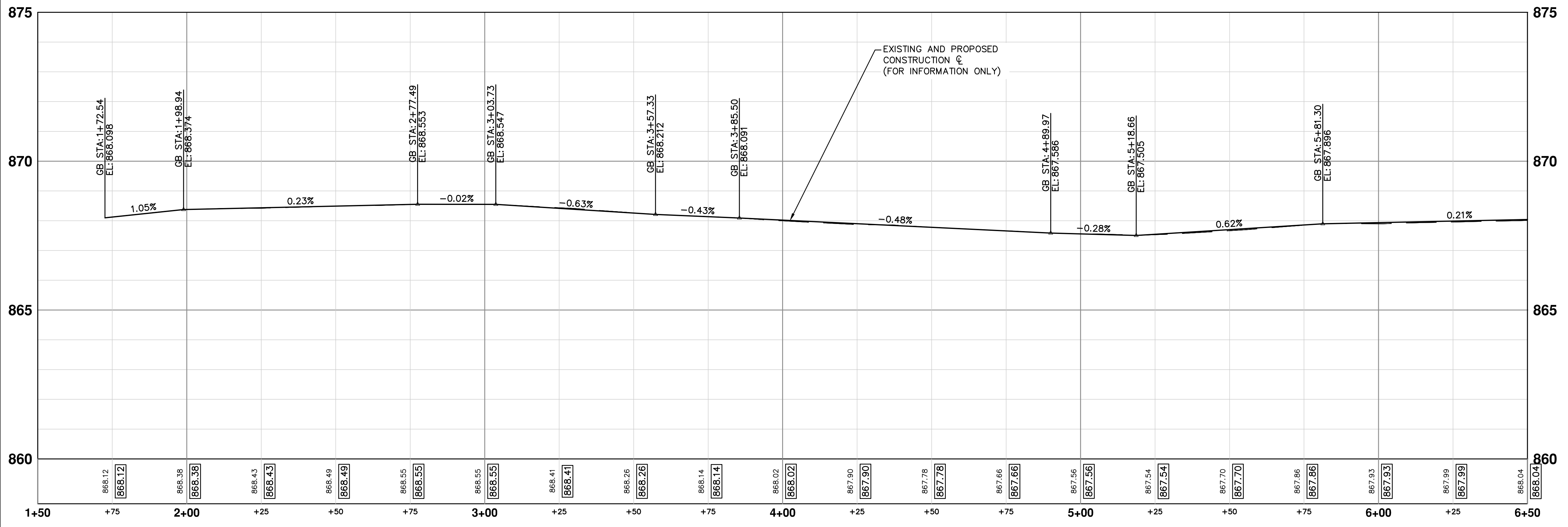
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01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD

S:\Project Management\Drafting\outocad\2017004\Plan Production\Major Streets\2017004 - S Division Street Road.dwg Dwg Created: 13-Feb-17 - _a2 standard bw.stb - Plot Date: 27-Mar-17



- NOTES**
1. QUANTITIES FOR HAND HOLES HAVE BEEN PROVIDED TO REPLACE HAND HOLES AFFECTED BY BUMP OUT CONSTRUCTION.
 2. EMBANKMENT CIP QUANTITIES INCLUDES ALL WORK AND MATERIALS TO CONSTRUCT, EXTEND BUMP OUT, SIDEWALK, AND CURB THROUGH SUBBASE.
 3. ALL CURB AND GUTTER IS TO BE HIGH EARLY CONCRETE.
 4. ALL SIDEWALK AND RAMPS TO BE CONSTRUCTED WITH HIGH EARLY FIBER-MESH REINFORCED CONCRETE.
 5. AT ALL INTERSECTIONS INSTALL GEO-SYNTHETIC PAVING LAYER WITHIN DIVISION ST. ONLY. DO NOT PLACE IN LEGS OF SIDE INTERSECTIONS.

DIVISION (1)



CONSTRUCTION KEY	
KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION

01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD	CHECKED
00	BID SET	03-08-17	AG.GS.RG	DAD	CHECKED
				DATE	DRAWN
					REV.

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET

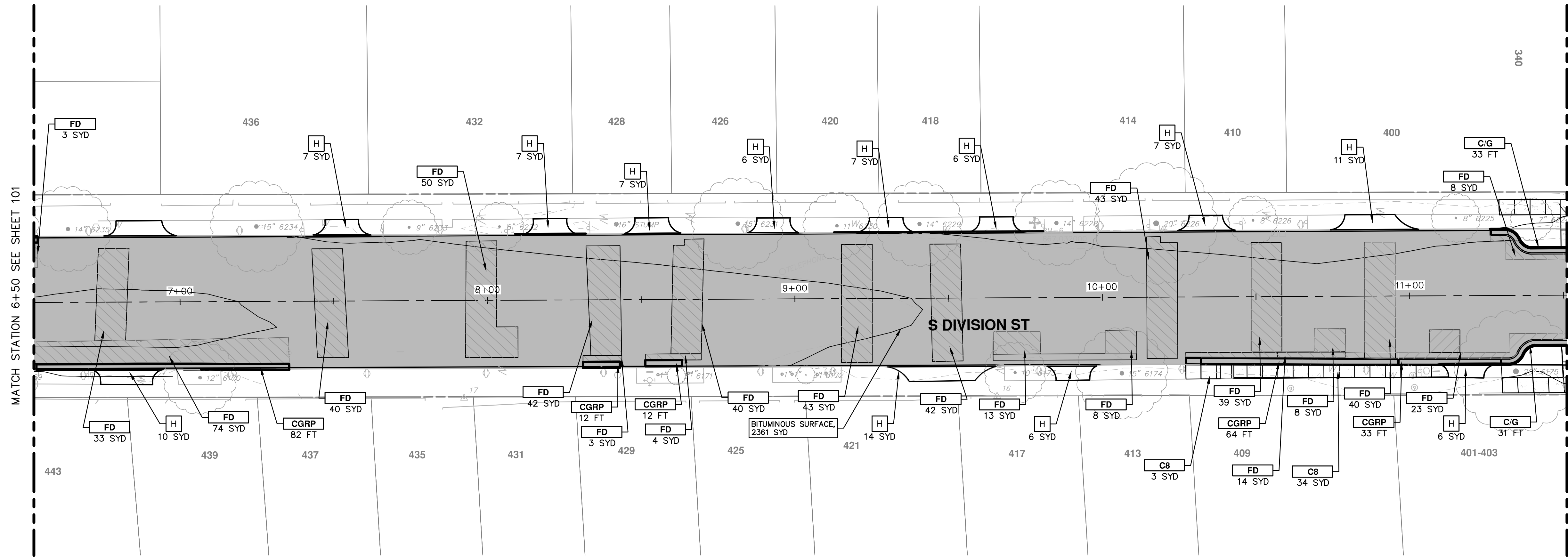
ROAD 1+50 TO 6+50

SCALE PLAN: 1" = 20'
 PROFILE: 1" = 2'

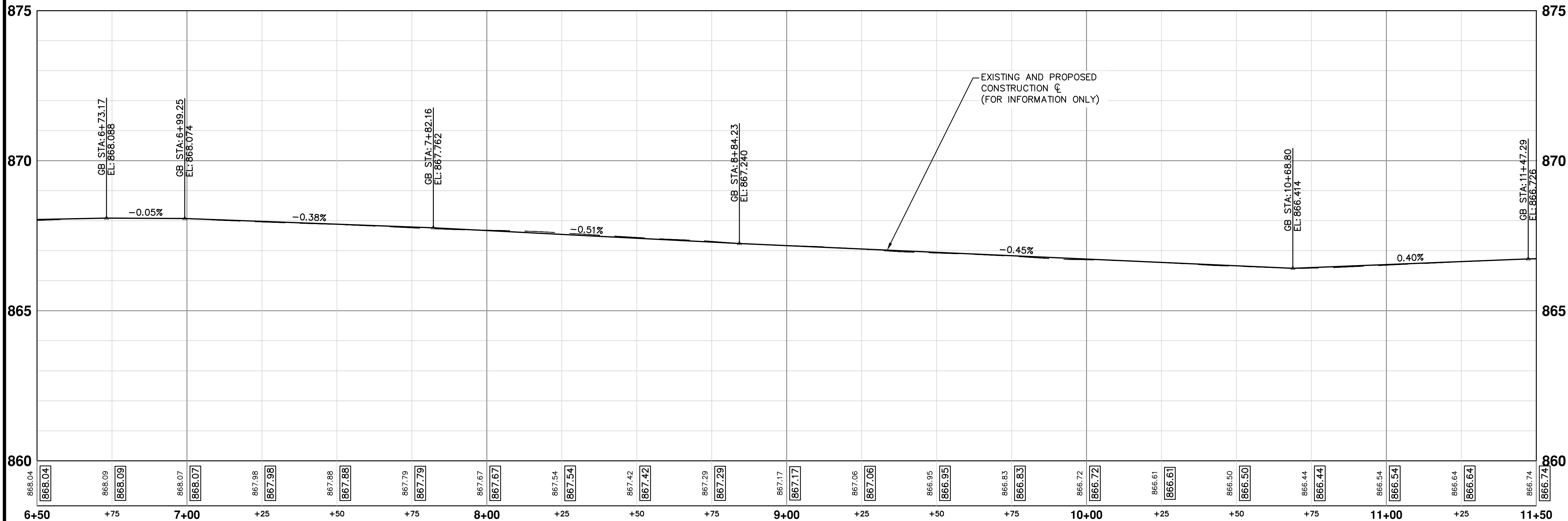
DRAWING No. 2017004-101

SHEET No. 101 OF 136

S:\Project Management\Drafting\outocad\2017004\Plan Production\Major Streets\2017004 - S Division Street Road.dwg Dwg Created: 13-Feb-17 - _a2 standard bw.stb - Plot Date: 27-Mar-17




DIVISION (1)




- NOTES**
1. QUANTITIES FOR HAND HOLES HAVE BEEN PROVIDED TO REPLACE HAND HOLES AFFECTED BY BUMP OUT CONSTRUCTION.
 2. EMBANKMENT CIP QUANTITIES INCLUDES ALL WORK AND MATERIALS TO CONSTRUCT, EXTEND BUMP OUT, SIDEWALK, AND CURB THROUGH SUBBASE.
 3. ALL CURB AND GUTTER IS TO BE HIGH EARLY CONCRETE.
 4. ALL SIDEWALK AND RAMPS TO BE CONSTRUCTED WITH HIGH EARLY FIBER-MESH REINFORCED CONCRETE.
 5. AT ALL INTERSECTIONS INSTALL GEO-SYNTHETIC PAVING LAYER WITHIN DIVISION ST. ONLY, DO NOT PLACE IN LEGS OF SIDE INTERSECTIONS.

CONSTRUCTION KEY	
KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE STRUCTURE COVER ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION



Know what's below.
Call Before you dig.

01	ADDENDUM #1	AG.GS.RG	DAD	03-24-17	AG.GS.RG	DAD	CHECKED		
00	BID SET	AG.GS.RG	DAD	03-08-17	AG.GS.RG	DAD	DRAWN		
								DESCRIPTION	REV.



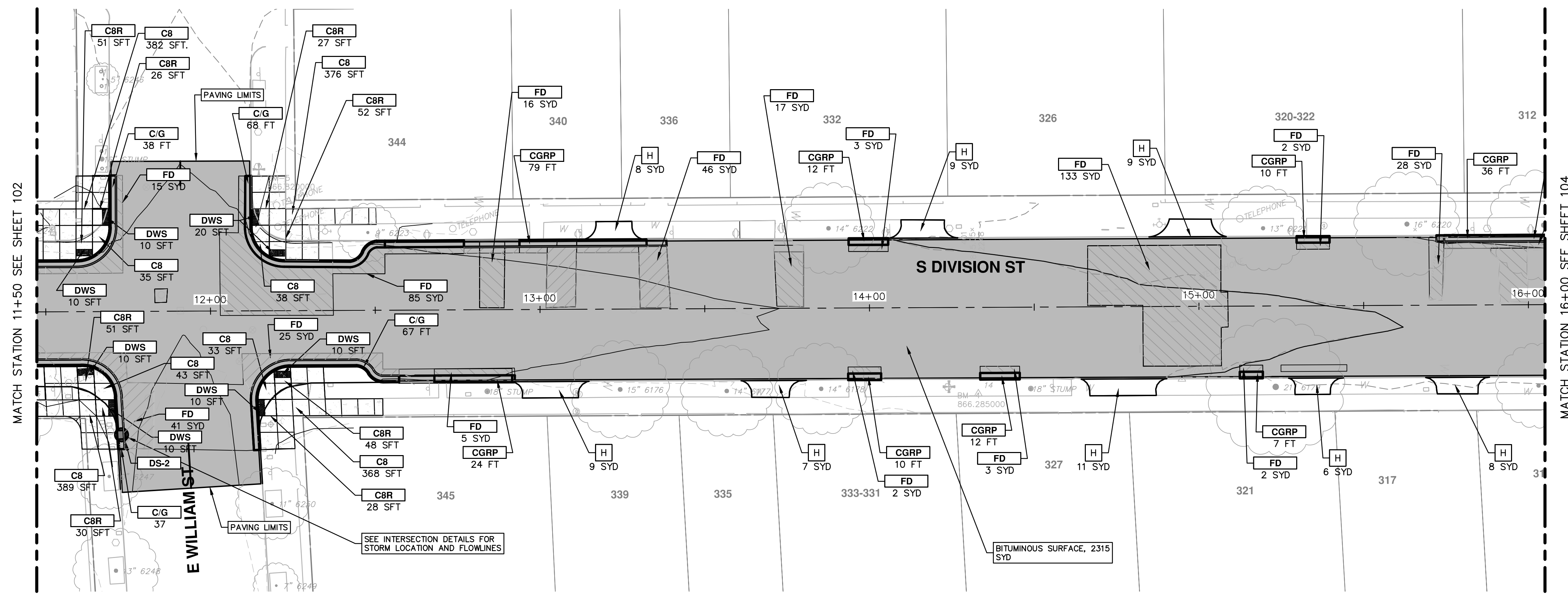
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-0667
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S DIVISION STREET
ROAD 6+50 TO 11+50

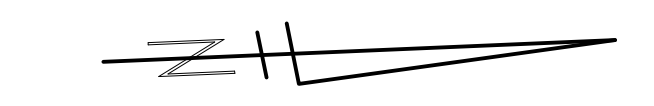
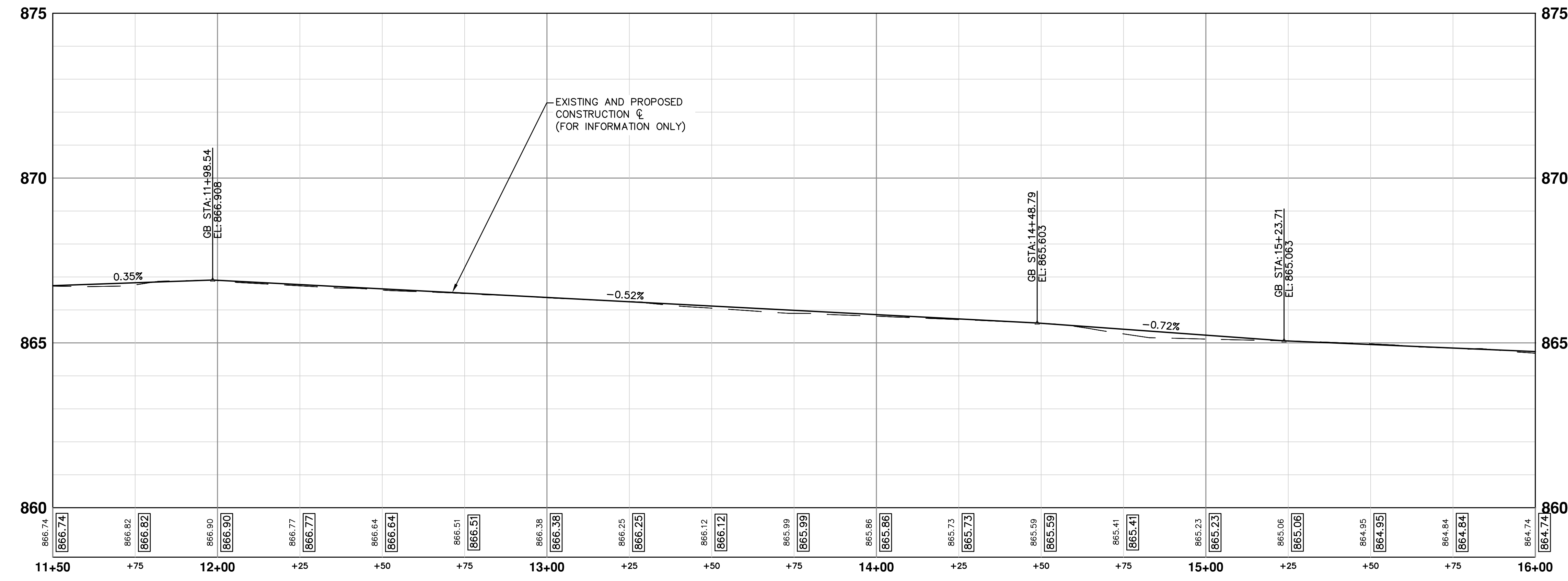
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING NO. 2017004-102
SHEET NO. 102 OF 136

S:\Project Management\Drafting\outocad\2017004\Plan Production\Major Streets\2017004 - S Division Street Road.dwg Dwg Created: 13-Feb-17 - _a2 standard bw.stb - Plot Date: 27-Mar-17



DIVISION (1)



- NOTES**
- QUANTITIES FOR HAND HOLES HAVE BEEN PROVIDED TO REPLACE HAND HOLES AFFECTED BY BUMP OUT CONSTRUCTION.
 - EMBANKMENT CIP QUANTITIES INCLUDES ALL WORK AND MATERIALS TO CONSTRUCT, EXTEND BUMP OUT, SIDEWALK, AND CURB THROUGH SUBBASE.
 - ALL CURB AND GUTTER IS TO BE HIGH EARLY CONCRETE.
 - ALL SIDEWALK AND RAMPS TO BE CONSTRUCTED WITH HIGH EARLY FIBER-MESH REINFORCED CONCRETE.
 - AT ALL INTERSECTIONS INSTALL GEO-SYNTHETIC PAVING LAYER WITHIN DIVISION ST. ONLY. DO NOT PLACE IN LEGS OF SIDE INTERSECTIONS.
 - ON WILLIAM AND DIVISION INTERSECTION QUADRANTS ONLY, DETECTABLE WARNING SURFACE (DWS) SHALL BE CAST IRON. (80 SFT).

CONSTRUCTION KEY	
KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION

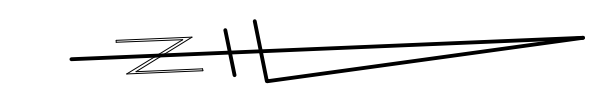
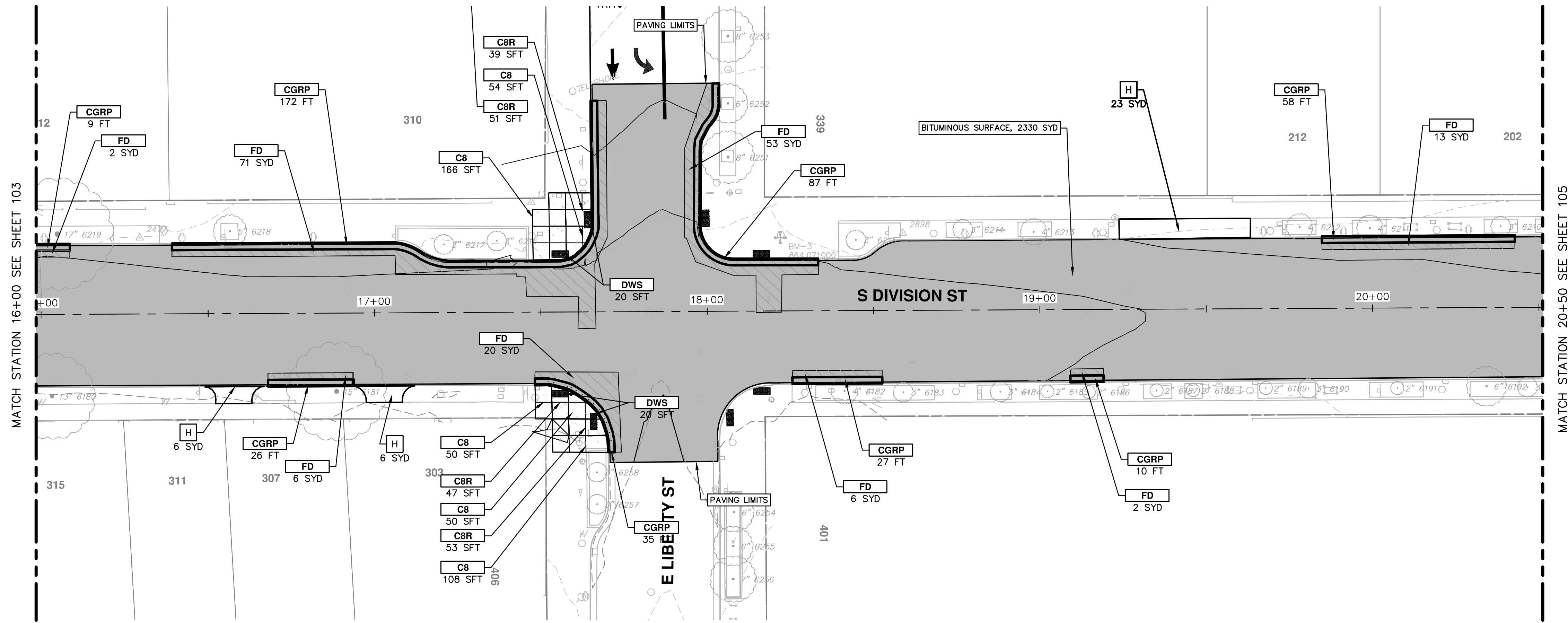
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00	03-08-17	AG.GS.RG

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 ROAD 11+50 TO 16+00

SCALE PLAN: 1" = 20'
 PROFILE: 1" = 2'

DRAWING No. 2017004-103
 SHEET No. 103 OF 136



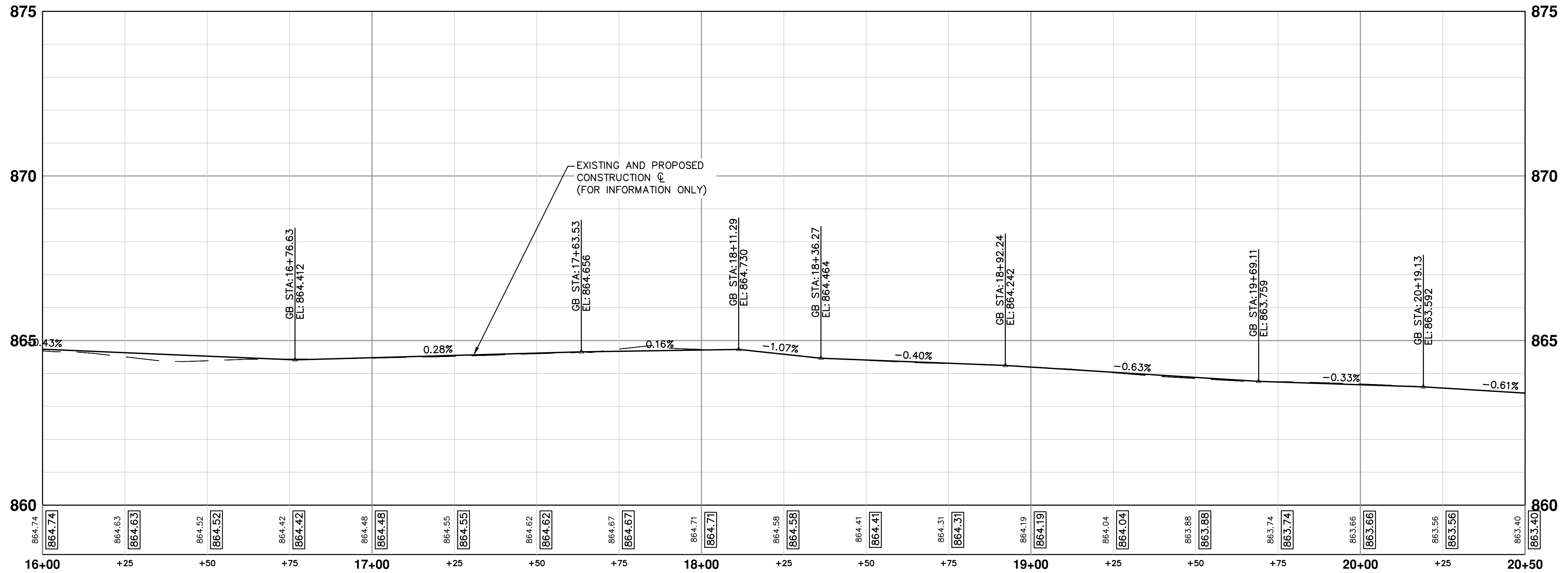
NOTES


1. QUANTITIES FOR HAND HOLES HAVE BEEN PROVIDED TO REPLACE HAND HOLES AFFECTED BY BUMP OUT CONSTRUCTION.
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5. AT ALL INTERSECTIONS INSTALL GEO-SYNTHETIC PAVING LAYER WITHIN DIVISION ST. ONLY. DO NOT PLACE IN LEGS OF SIDE INTERSECTIONS.

CONSTRUCTION KEY


KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION

DIVISION (1)





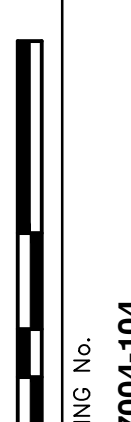
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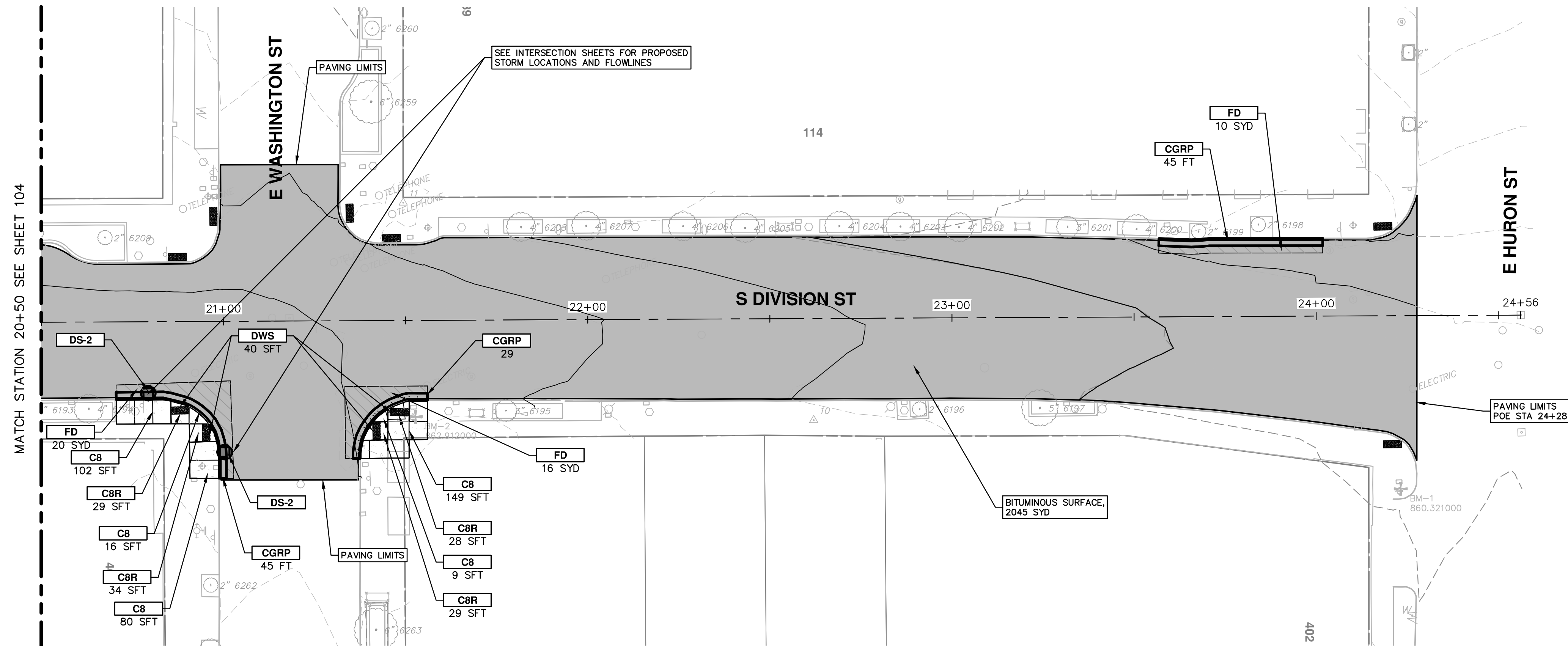
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S DIVISION STREET
ROAD 16+00 TO 20+50

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'



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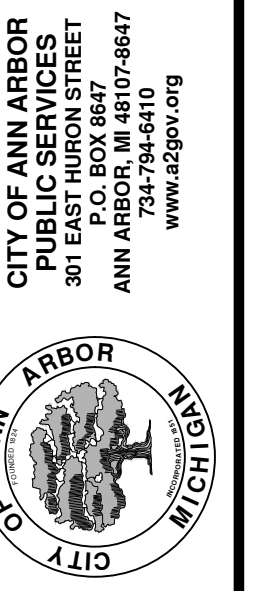
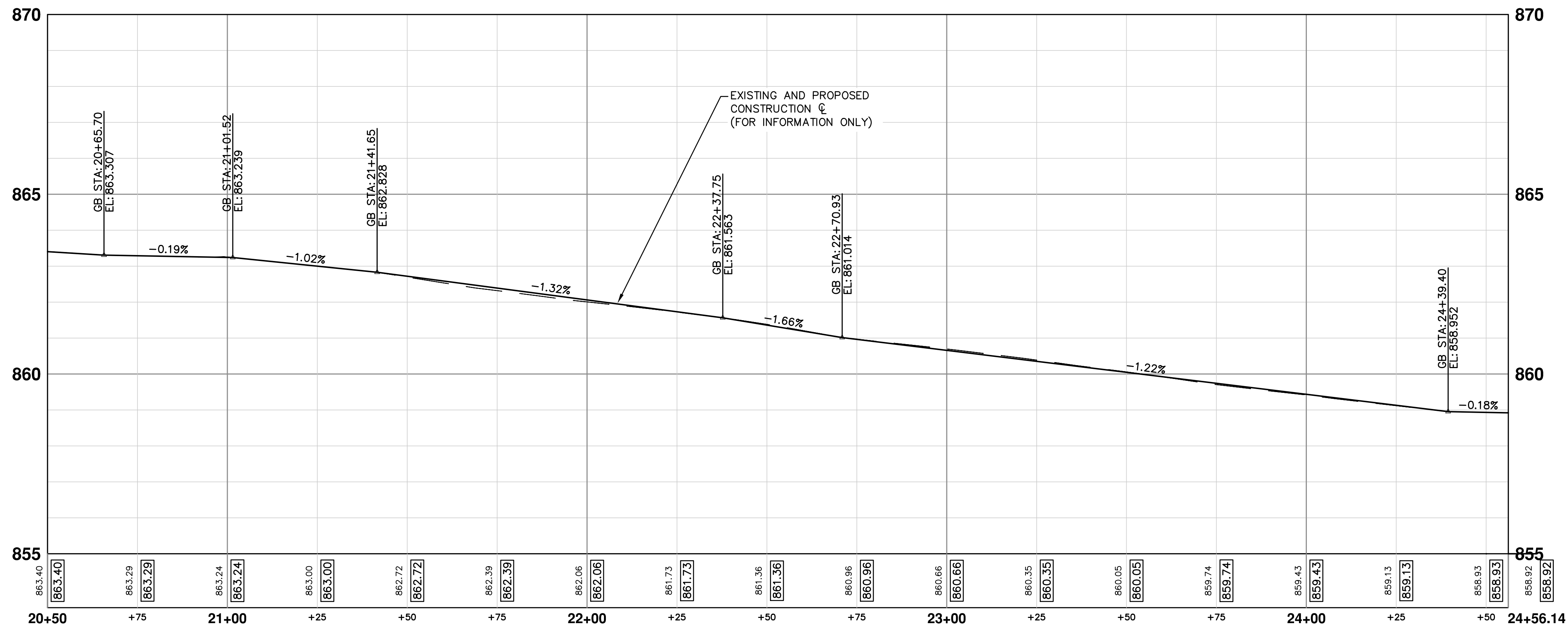
SHEET No. 104 OF 136



- NOTES**
1. QUANTITIES FOR HAND HOLES HAVE BEEN PROVIDED TO REPLACE HAND HOLES AFFECTED BY BUMP OUT CONSTRUCTION.
 2. EMBANKMENT CIP QUANTITIES INCLUDES ALL WORK AND MATERIALS TO CONSTRUCT, EXTEND BUMP OUT, SIDEWALK, AND CURB THROUGH SUBBASE.
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CONSTRUCTION KEY	
KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE STRUCTURE COVER ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION

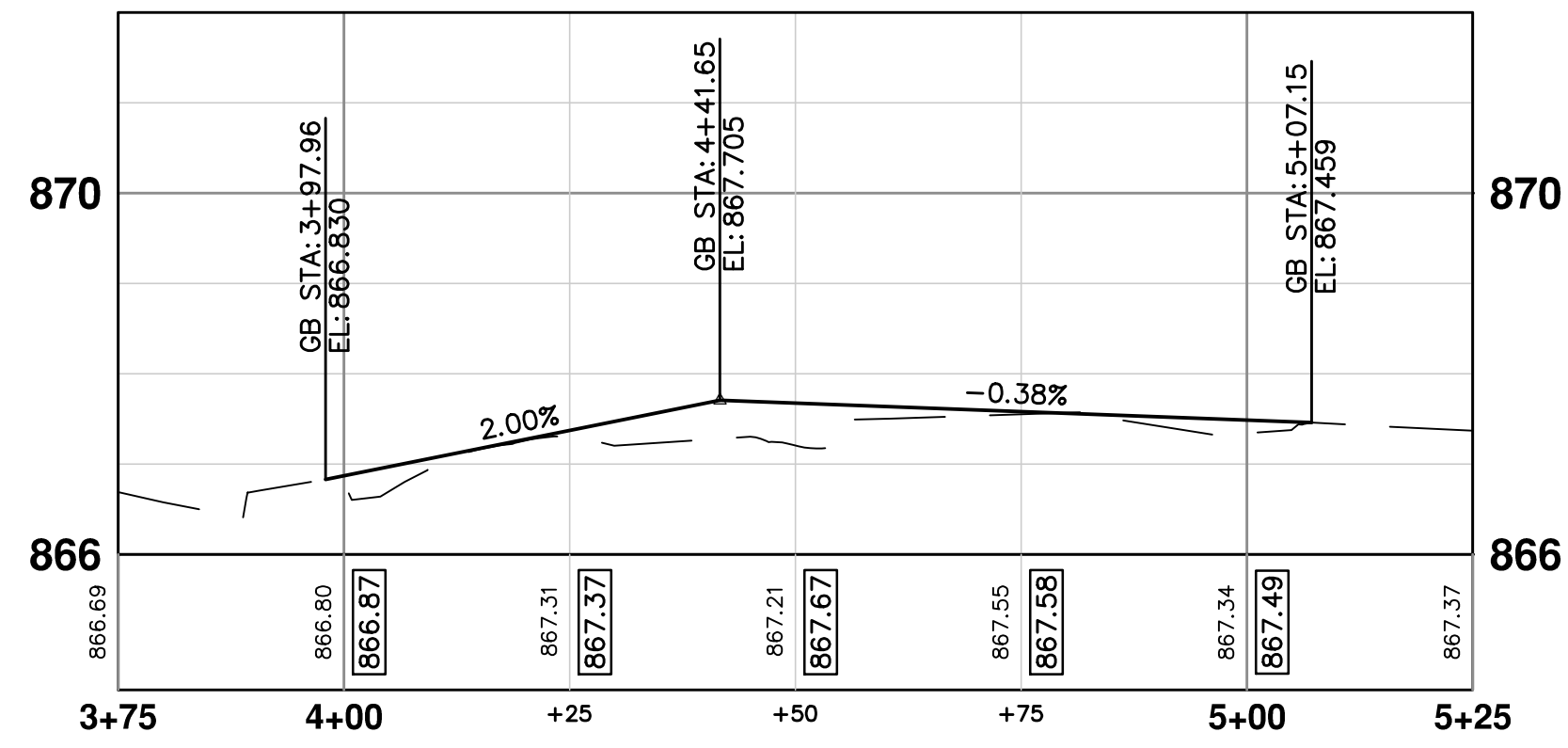
DIVISION (1)



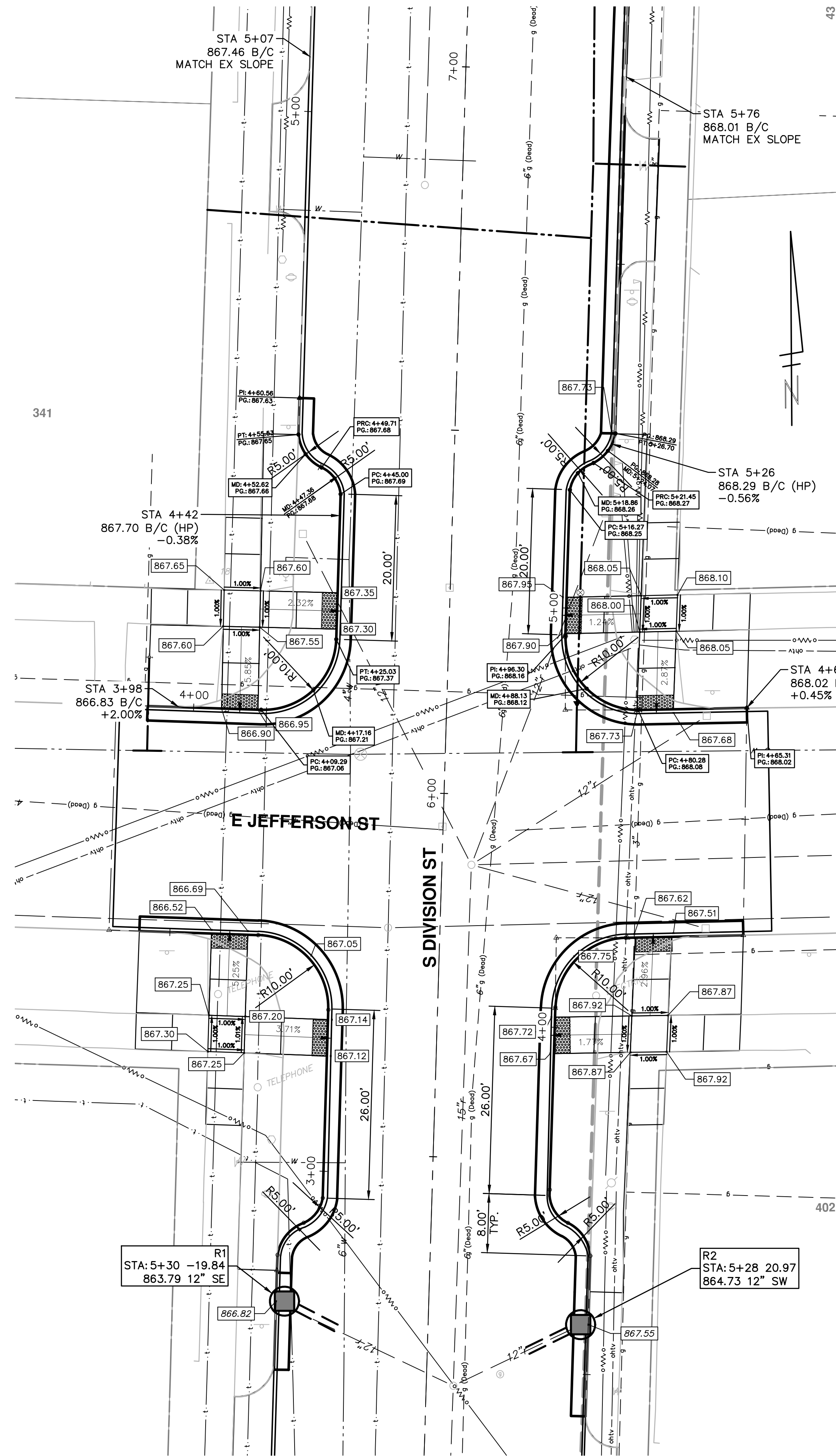
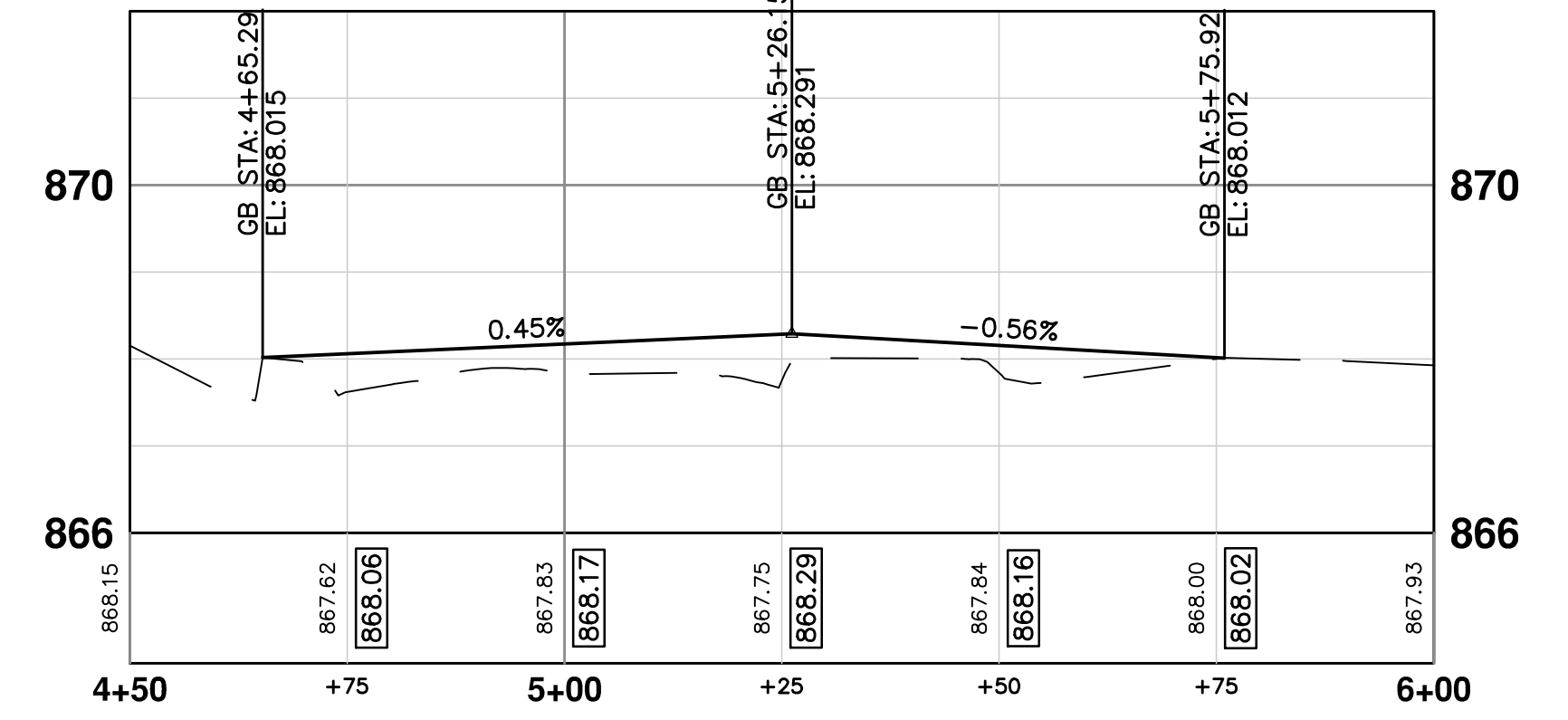
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 ROAD 20+50 TO 24+50

SCALE PLAN: 1" = 20'
 PROFILE: 1" = 2'
 DRAWING No. 2017004-105

LEFT BOC (1)

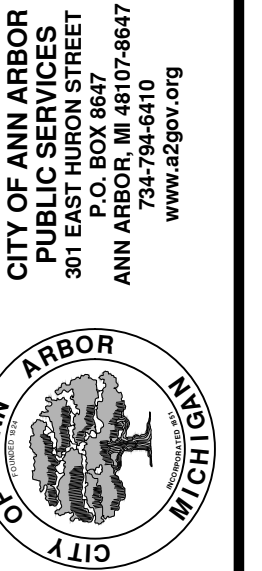


RIGHT BOC



NOTES

1. PROPOSED GUTTER PAN TO BE OVERLAID UPON PAVING. ELEVATIONS SHOWN ARE TO TOP COURSE OF PROPOSED HMA OVERLAY.

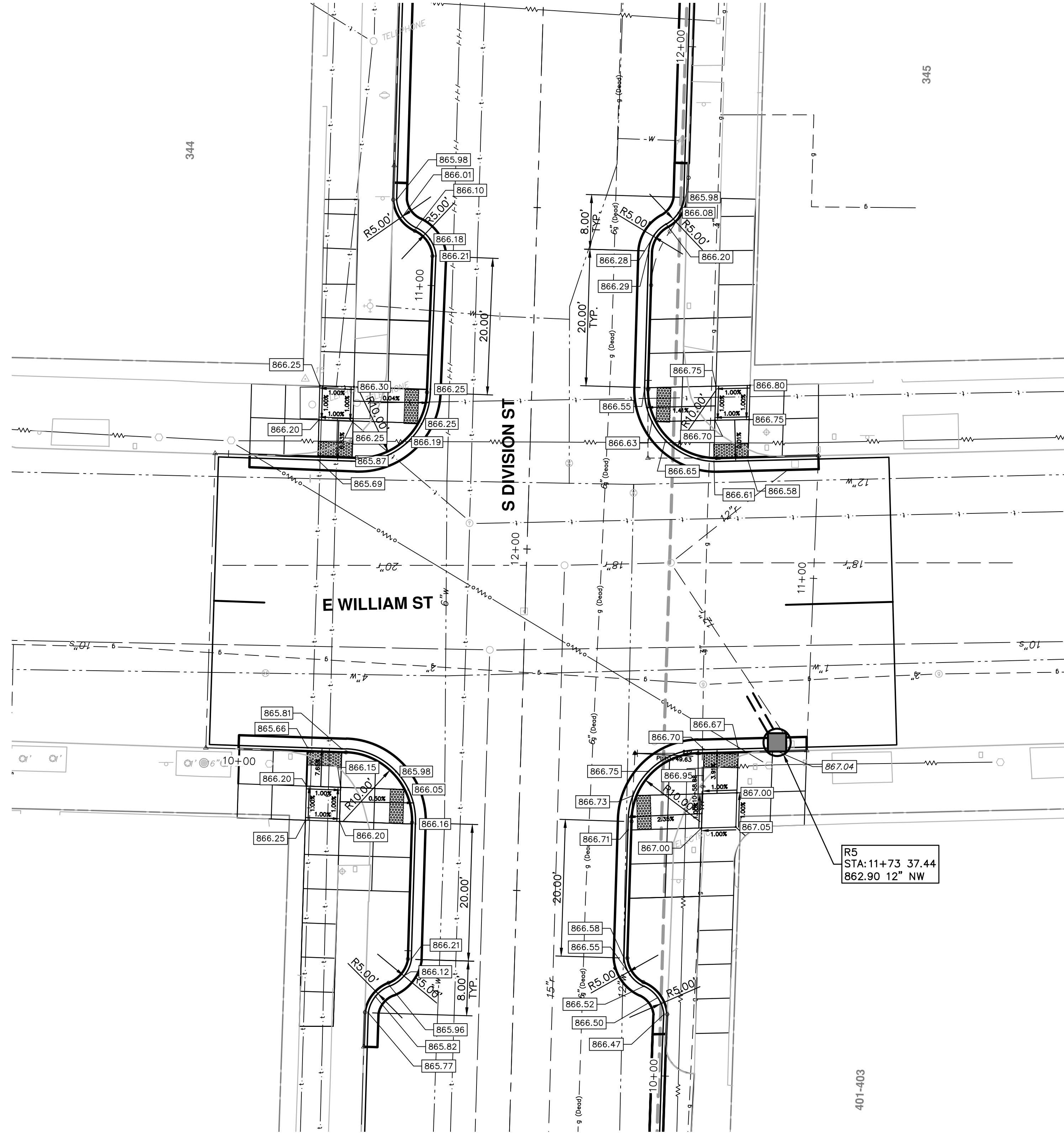


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 JEFFERSON ST

SCALE PLAN: 1" = 10'
 PROFILE: 1" = 2'
 DRAWING No. 2017004-106


SHEET No. 106 OF 136

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	03-08-17	AG.GSRG	DAD



NOTES

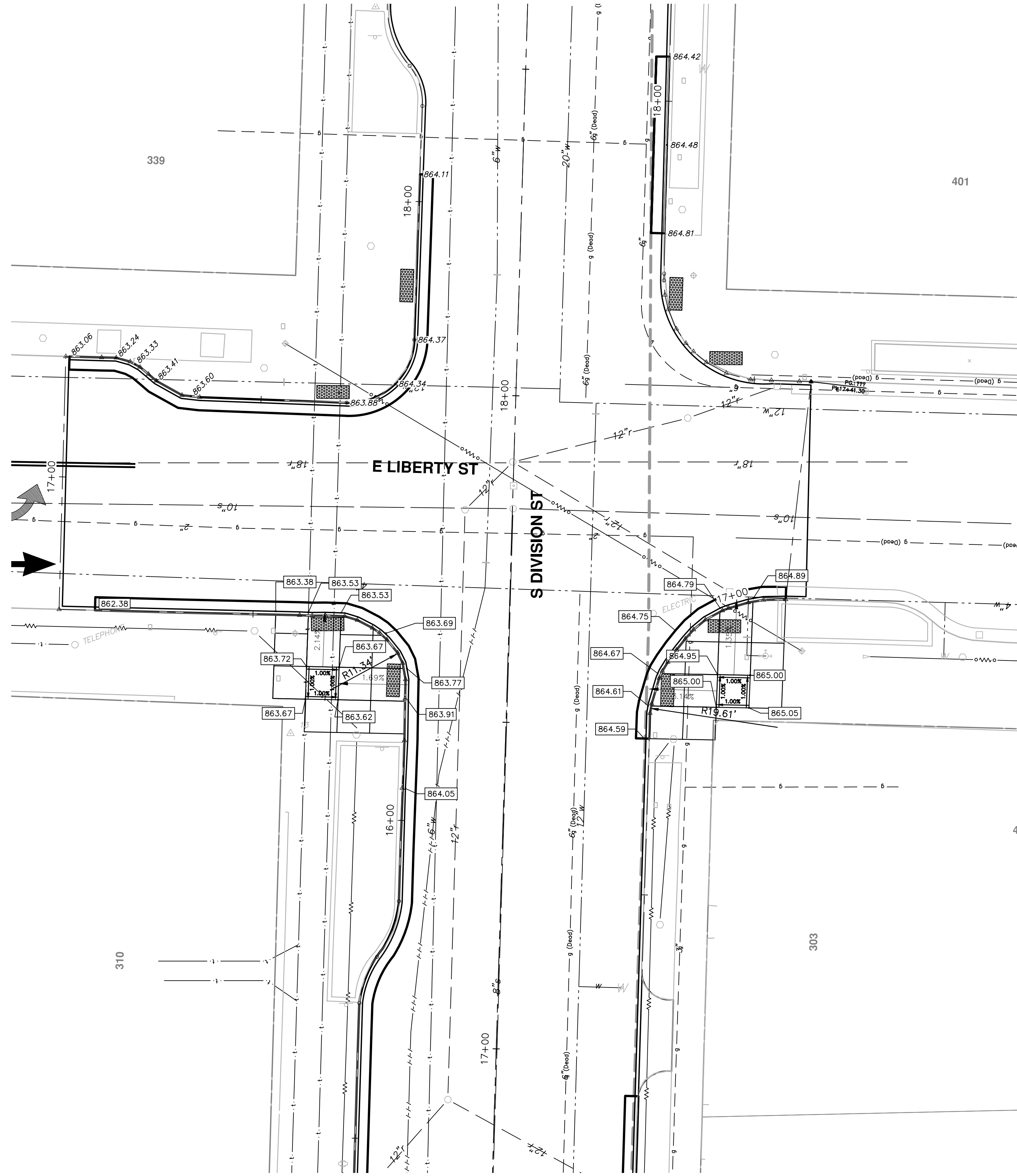
1. PROPOSED GUTTER PAN TO BE OVERLAID UPON PAVING. ELEVATIONS SHOWN ARE TO TOP COURSE OF PROPOSED HMA OVERLAY.
2. ON WILLIAM AND DIVISION INTERSECTION QUADRANTS ONLY, DETECTABLE WARNING SURFACE (DWS) SHALL BE CAST IRON. (80 SFT).

 <p>City of Ann Arbor Public Services 301 East Huron Street Ann Arbor, MI 48106-8647 www.a2gov.org</p>		<p>01 ADDENDUM #1</p>	<p>AG.GS.RG</p>	<p>DAD</p>
<p>00 BID SET</p>	<p>03-08-17</p>	<p>AG.GS.RG</p>	<p>DAD</p>	<p>CHECKED</p>
<p>REV.</p>	<p>DATE</p>	<p>DESCRIPTION</p>	<p>DRAWN</p>	<p>CHECKED</p>

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 E WILLIAM ST

SCALE PLAN: 1" = 10'
 DRAWING No. 2017004-107

SHEET No. 107 OF 136



NOTES

1. PROPOSED GUTTER PAN TO BE OVERLAID UPON PAVING. PROPOSED ELEVATIONS SHOWN ARE TO TOP COURSE OF PROPOSED HMA OVERLAY. EXISTING ELEVATIONS SHOWN IN THE NORTHWEST AND NORTHEAST QUADRANT ARE EXISTING BACK OF CURB ELEVATIONS TO REINSTALL THE EXISTING CURB.

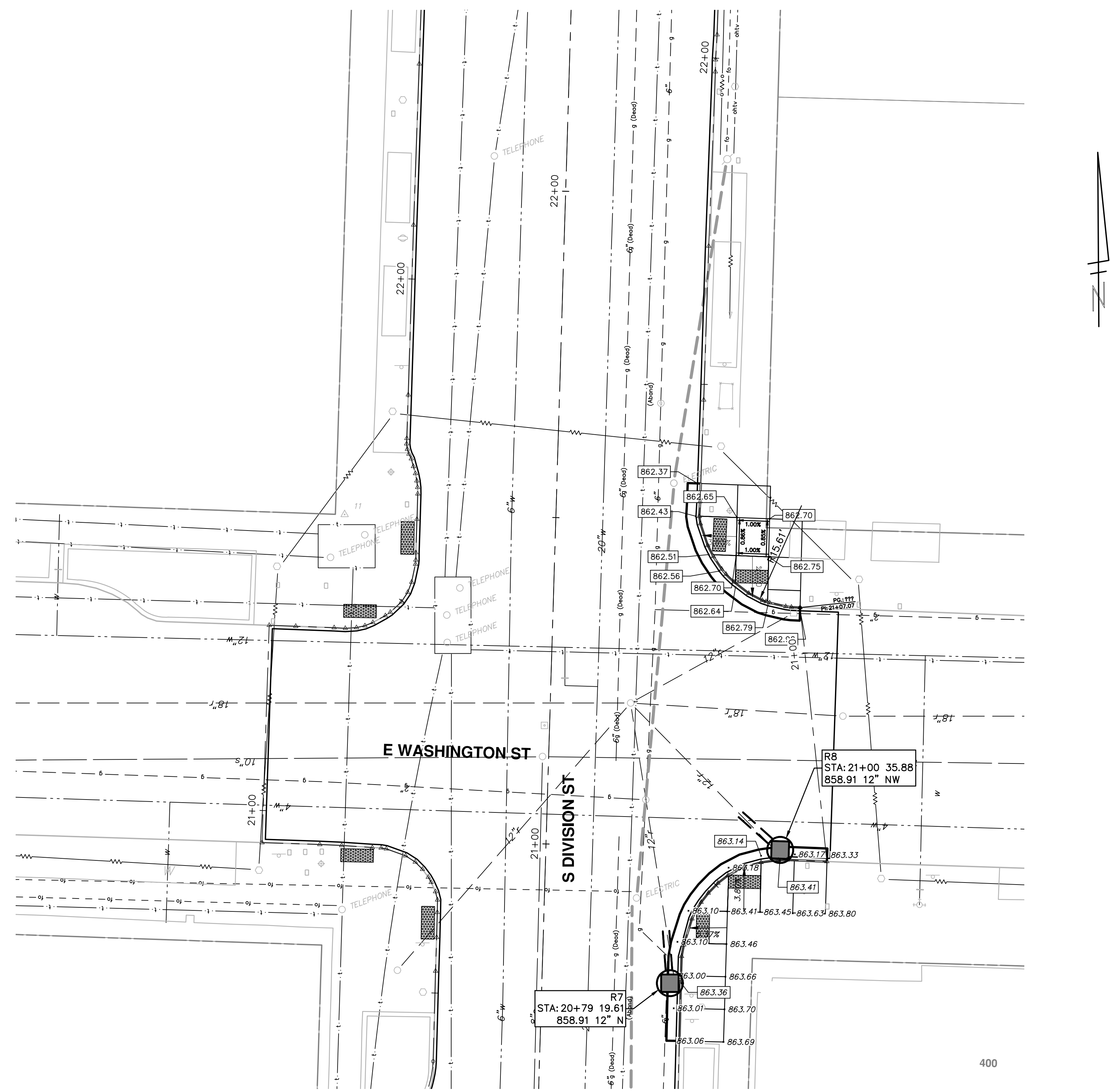


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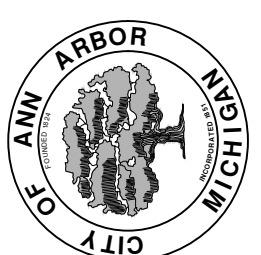
REV.	DESCRIPTION
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00	BID SET

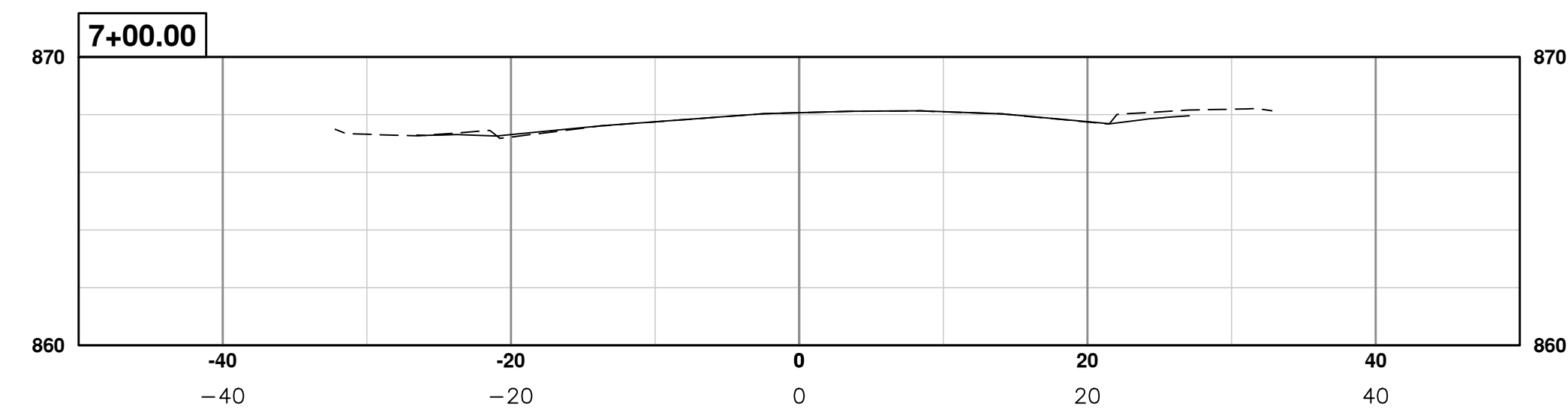
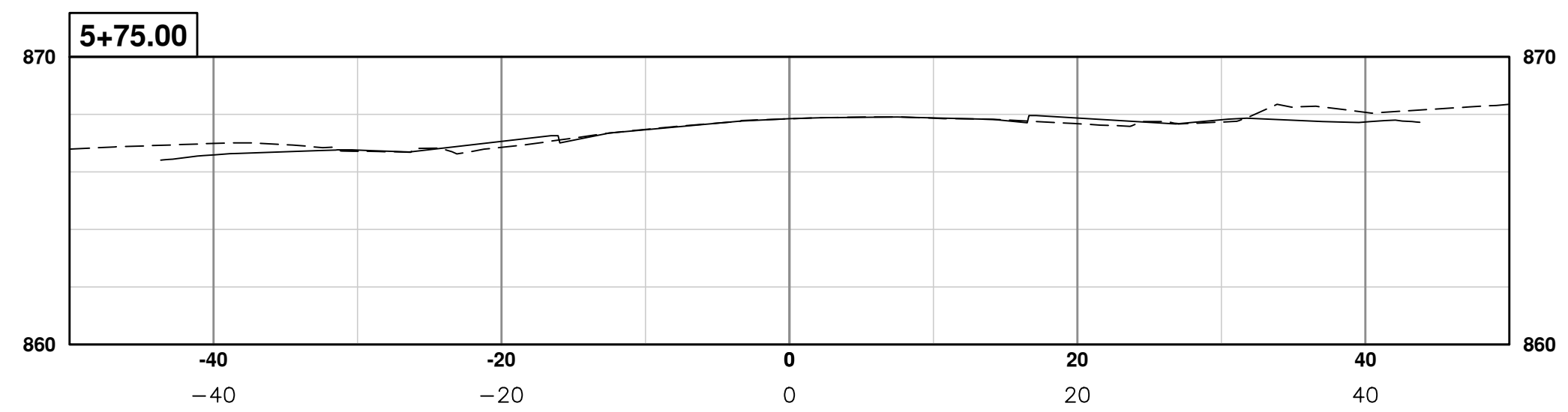
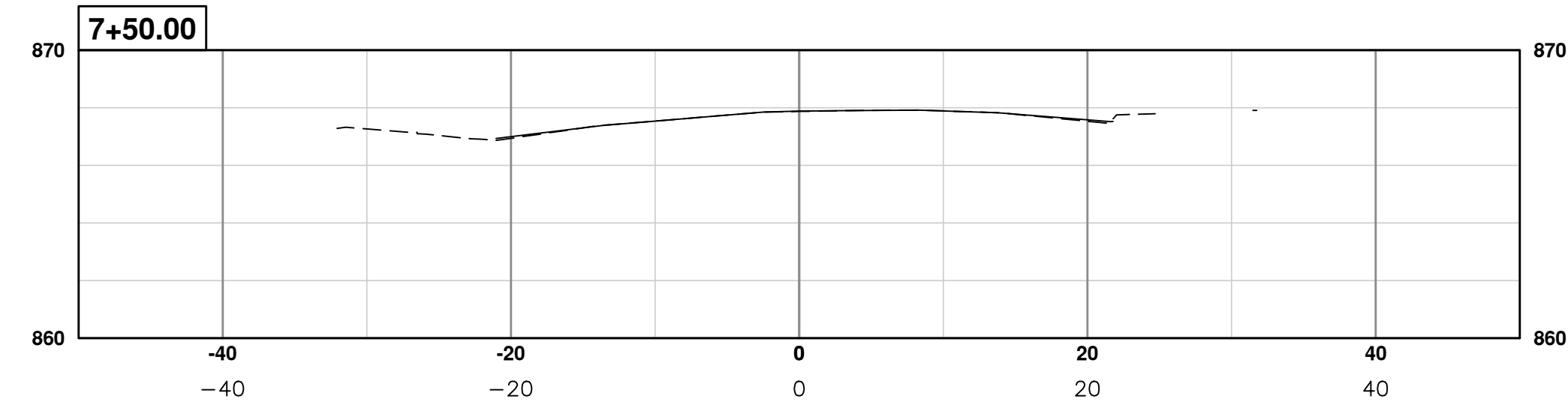
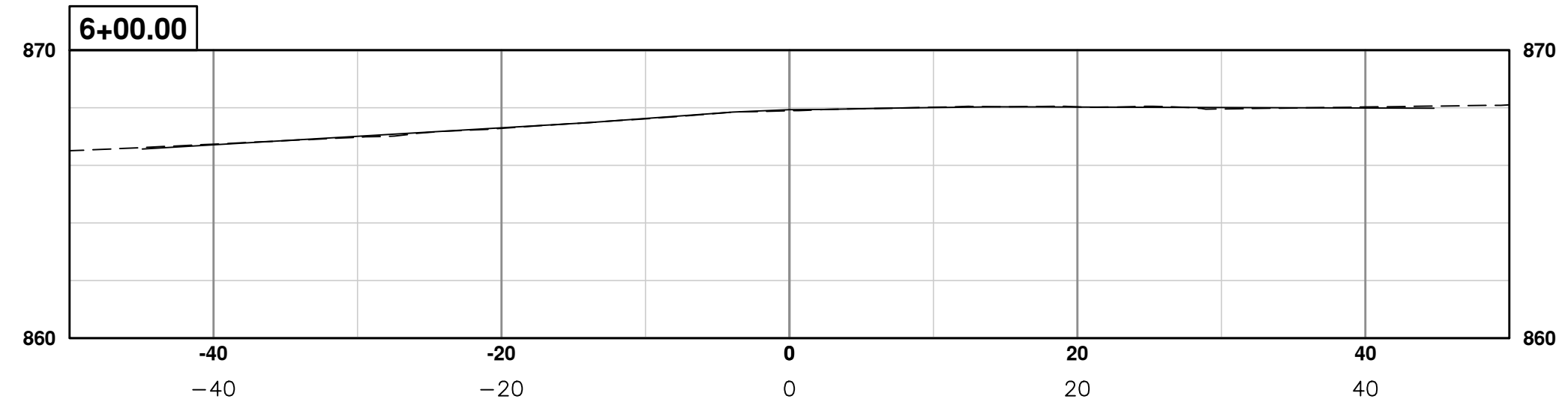
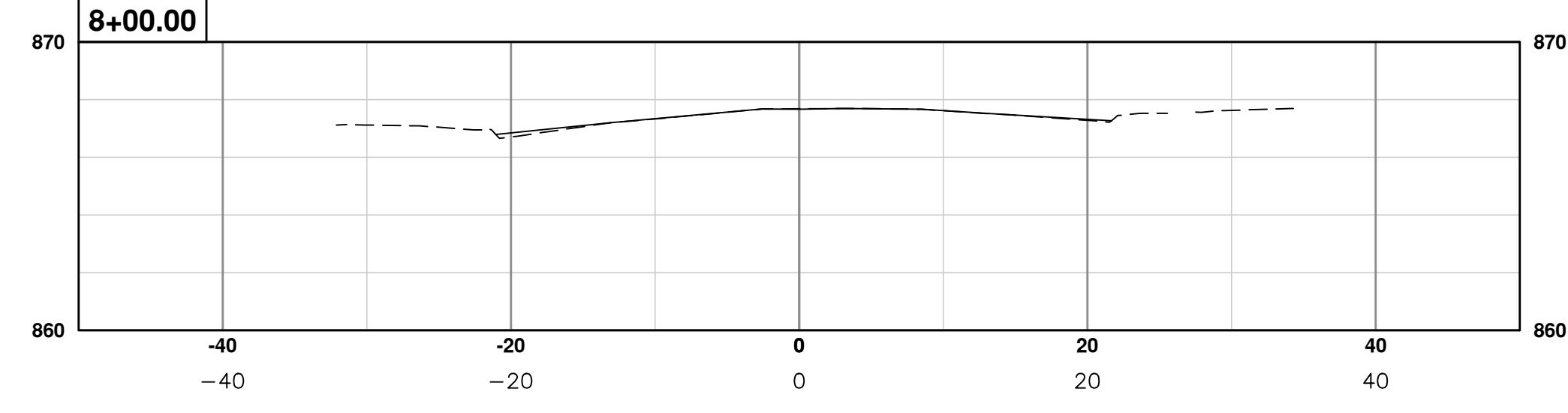
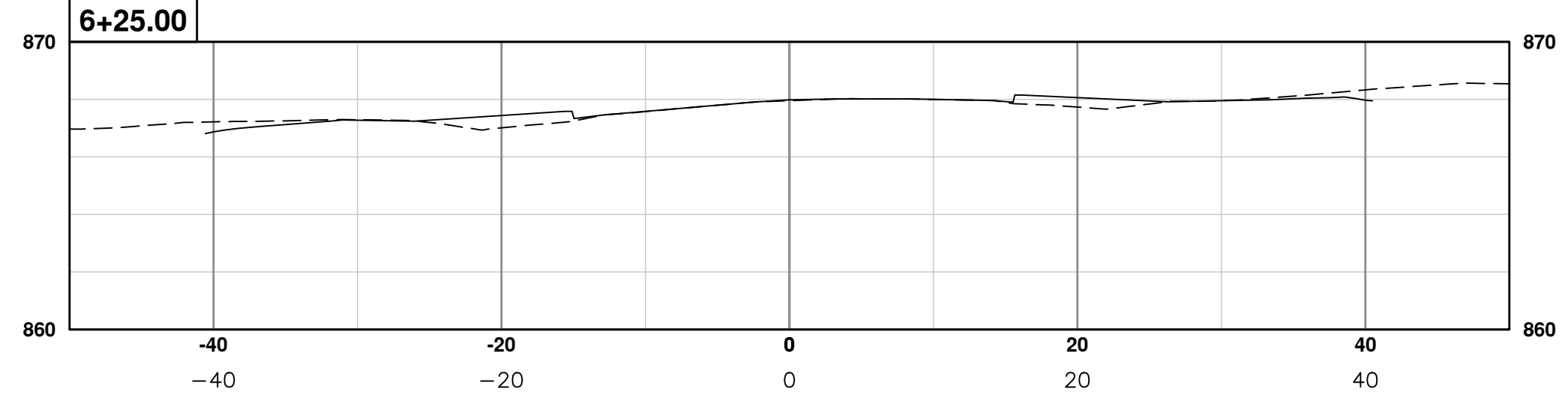
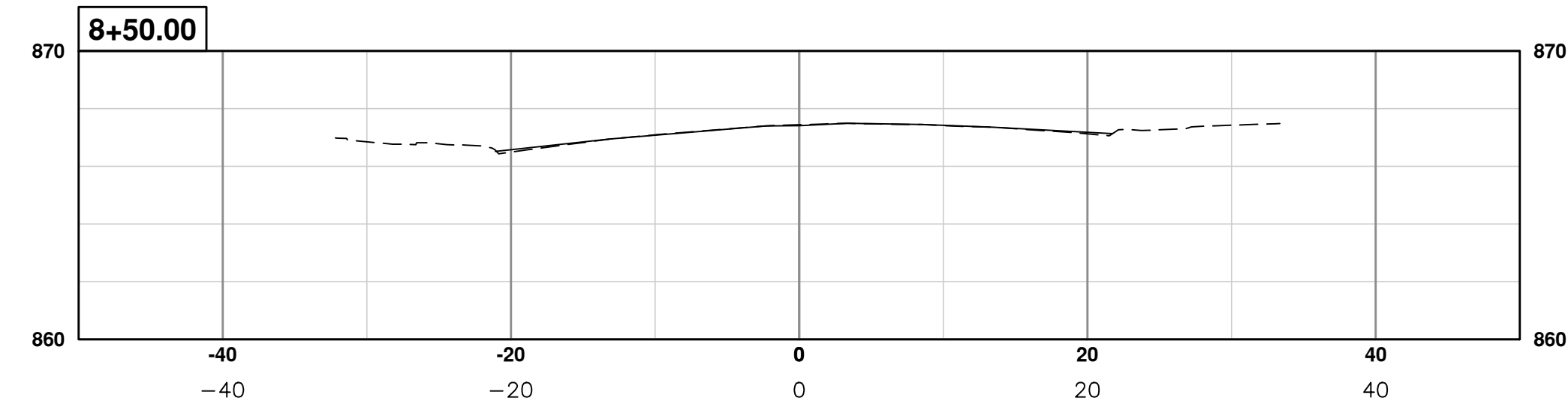
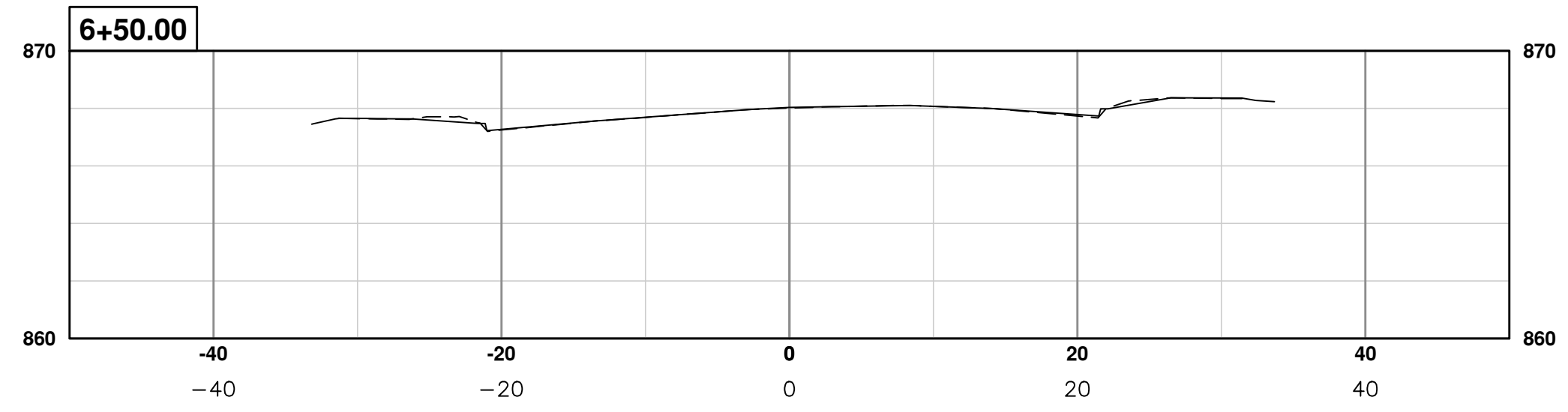
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03-08-17	AG.GSRG	DAD
03-24-17	AG.GSRG	DAD






NOTES
 1. PROPOSED GUTTER PAN TO BE OVERLAID UPON PAVING. ELEVATIONS SHOWN ARE TO TOP COURSE OF PROPOSED HMA OVERLAY.

 <p>CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-0667 www.a2gov.org</p>		ADDENDUM #1 03-24-17 AG.GS.RG DAD
<p>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2017 S DIVISION STREET E WASHINGTON ST</p>		BID SET 03-08-17 AG.GS.RG DAD
SCALE PLAN: 1" = 10' DRAWING No. 2017004-109		DESCRIPTION DATE DRAWN CHECKED
SHEET No. 109 OF 136		REV.




REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	03-08-17	AG.GS.RG	DAD



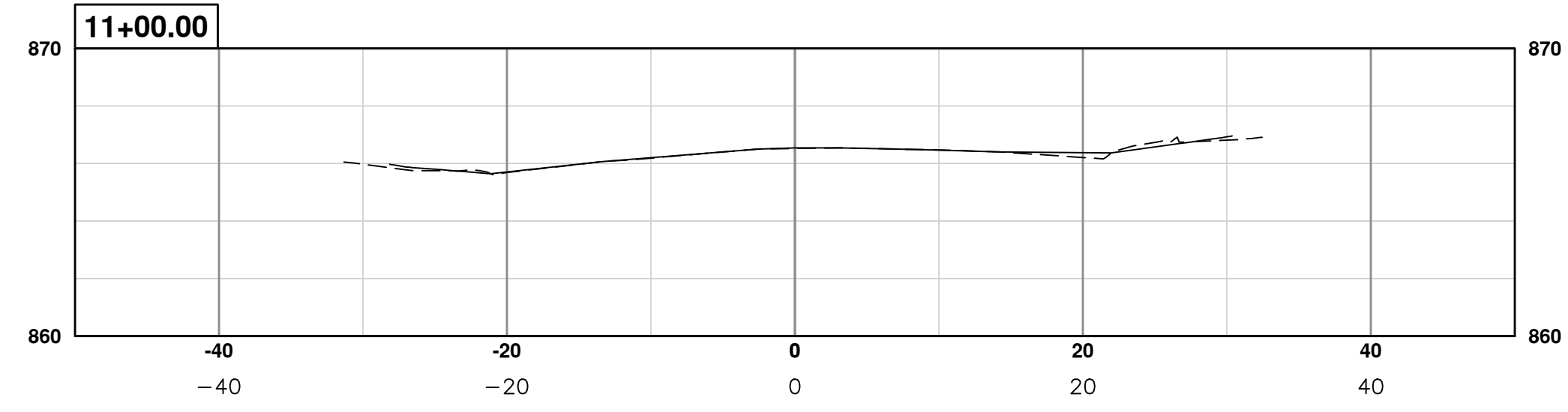
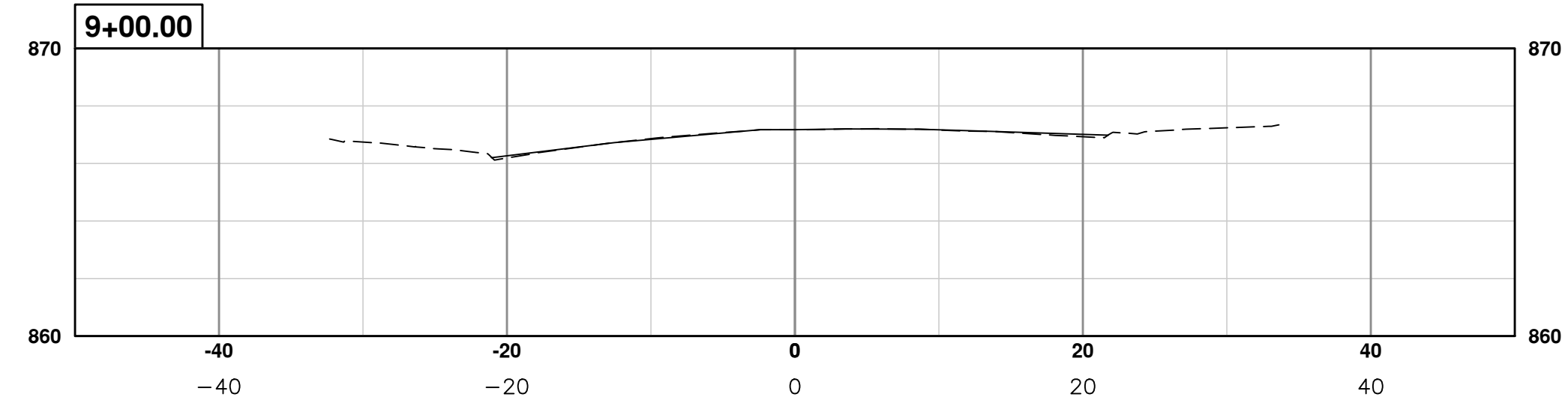
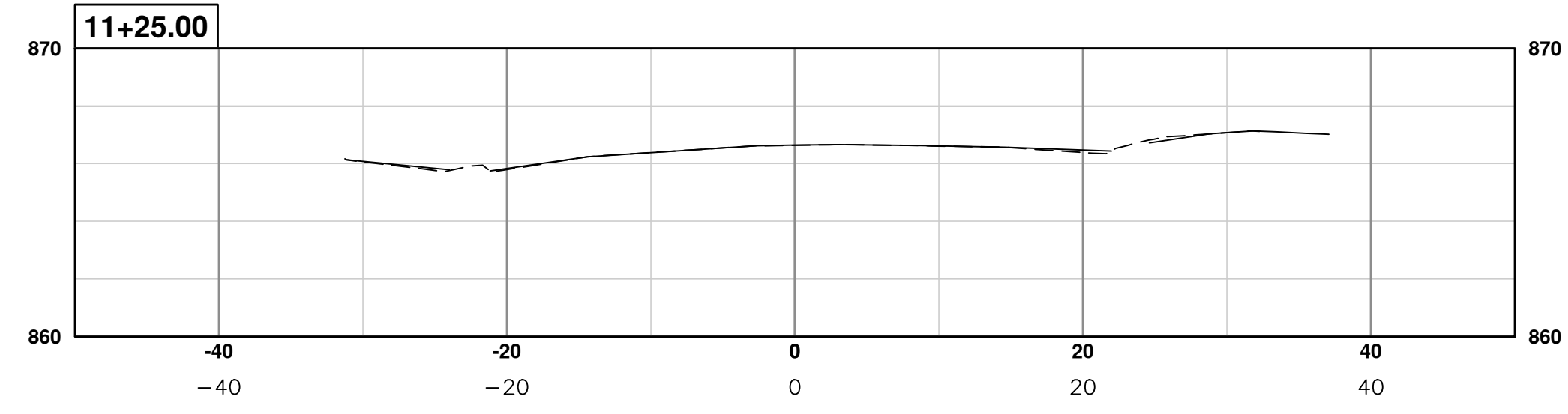
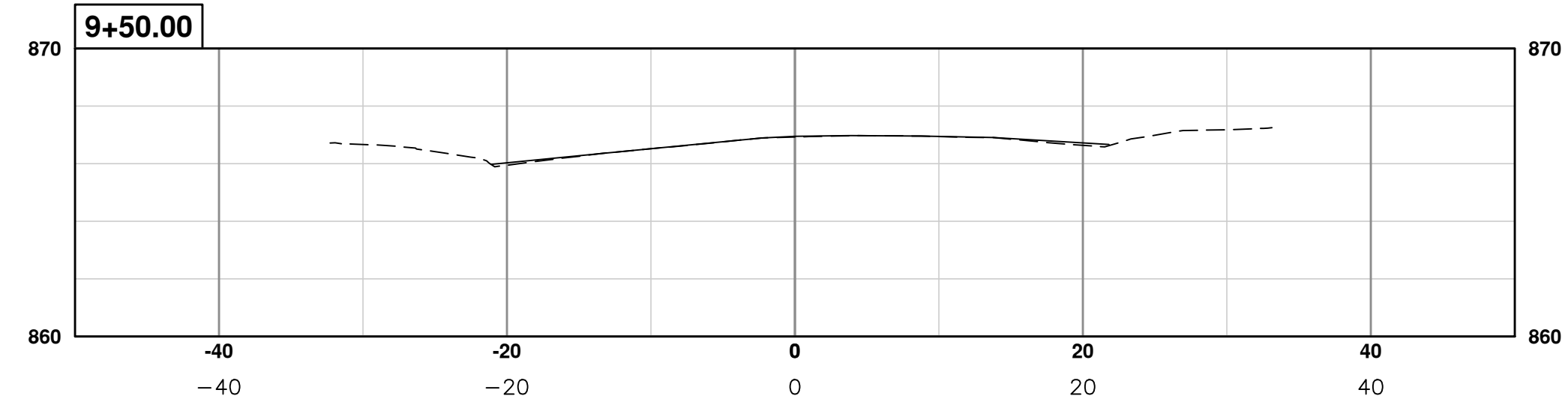
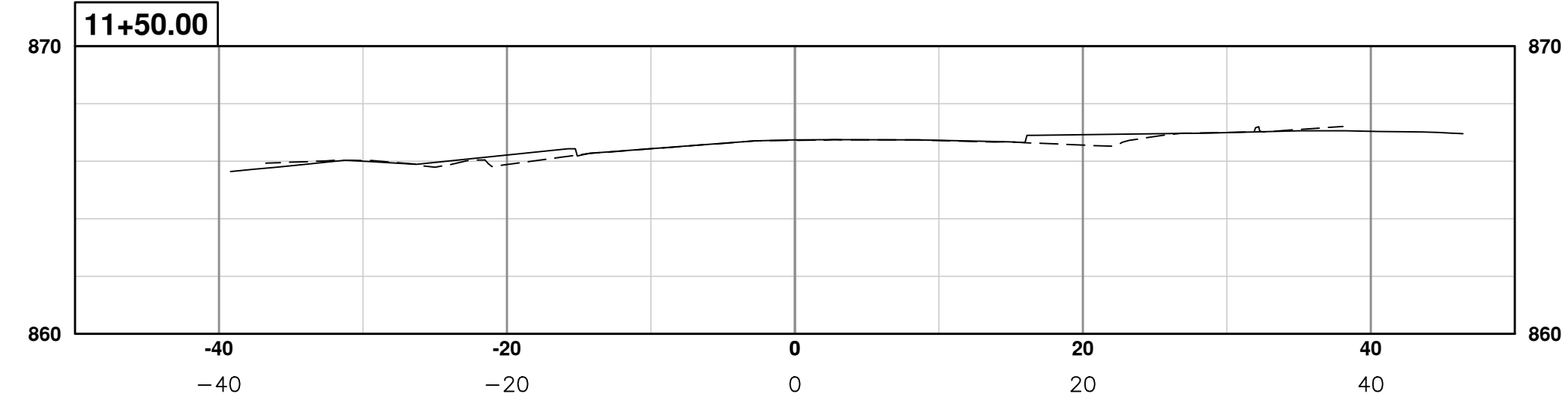
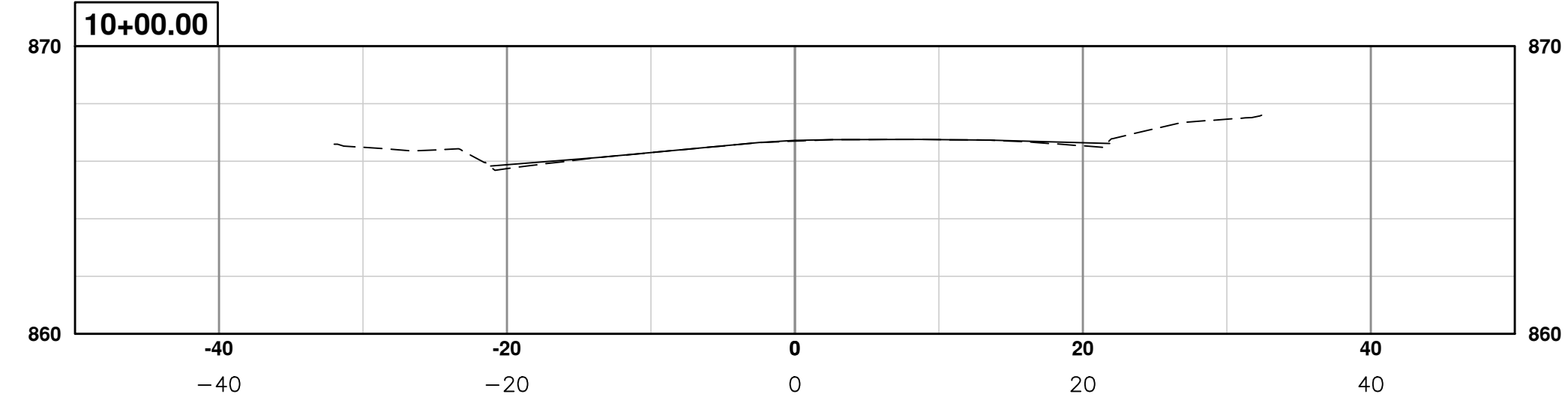
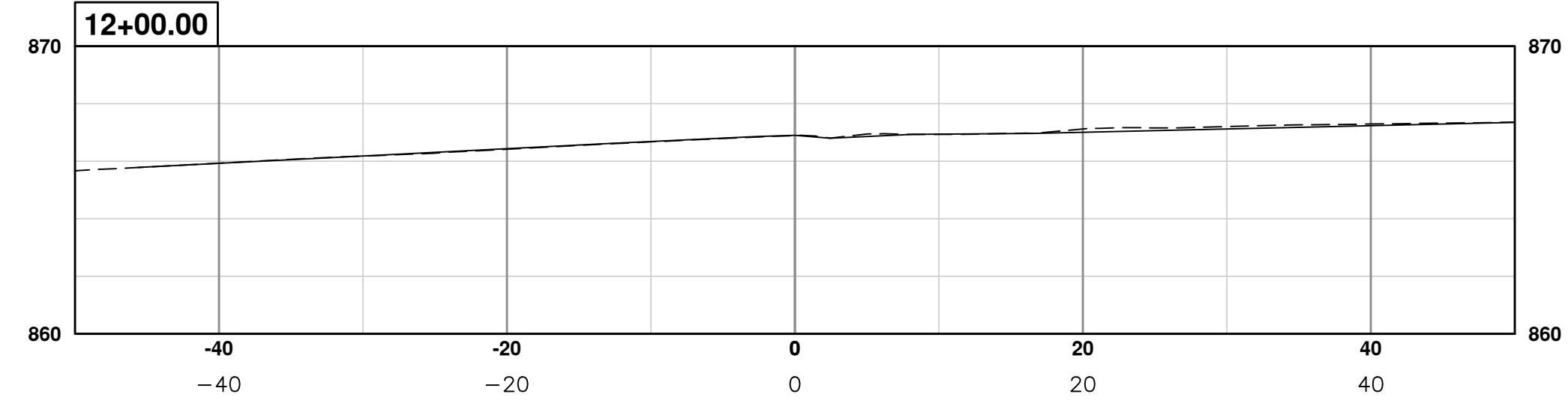
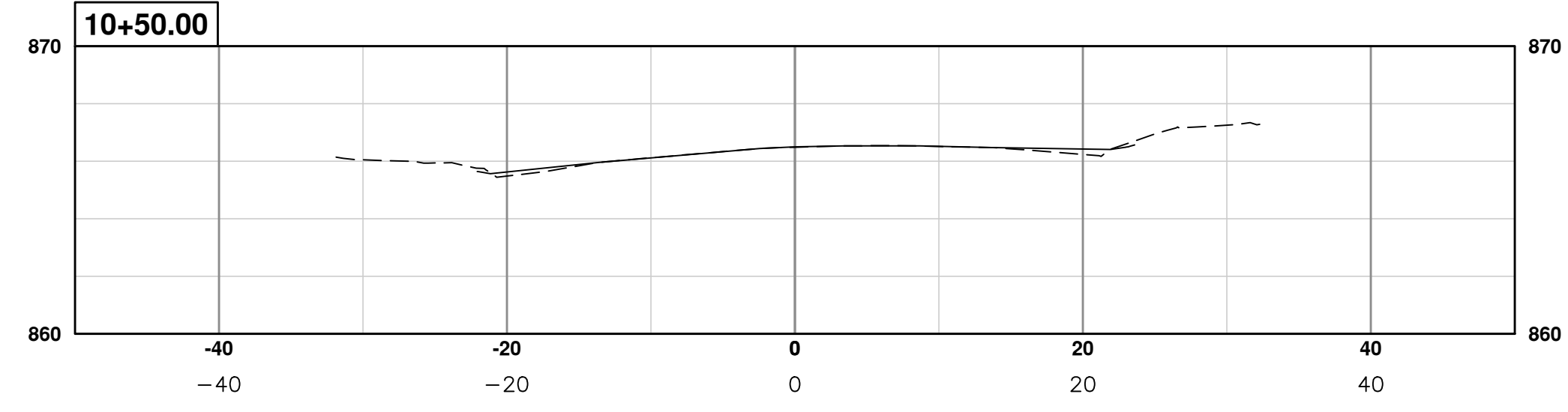
 CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-8647
 ANN ARBOR 734-794-4410
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 SECT 5+75 TO 8+50

SCALE PLAN: 1" = 10'
 PROFILE: 1" = 5'


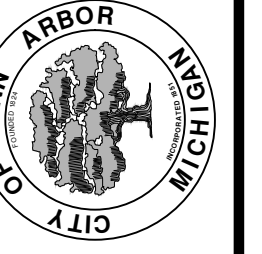
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	03-08-17	AG.GS.RG	DAD

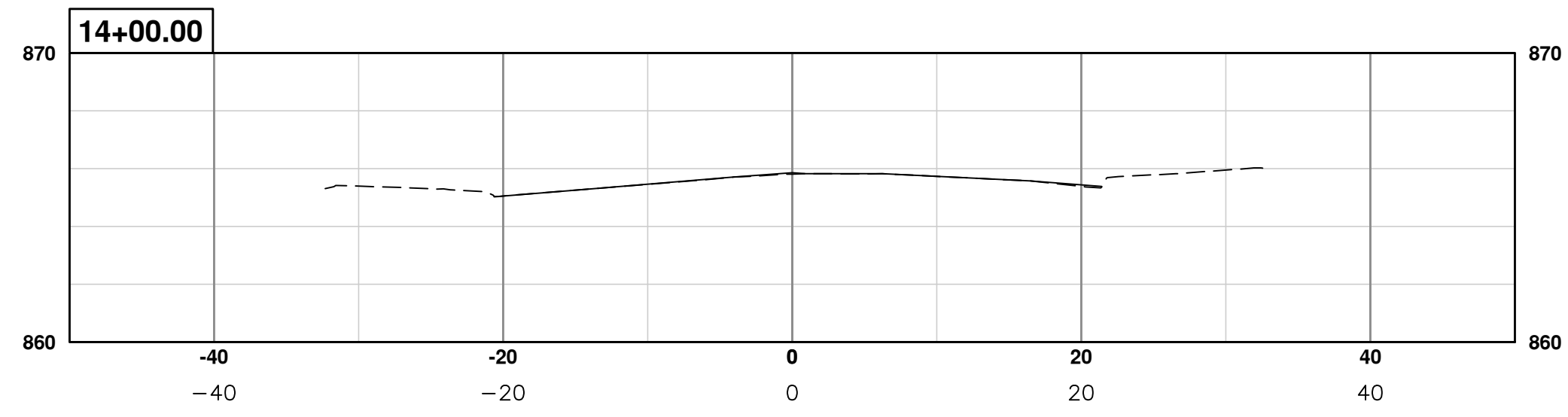
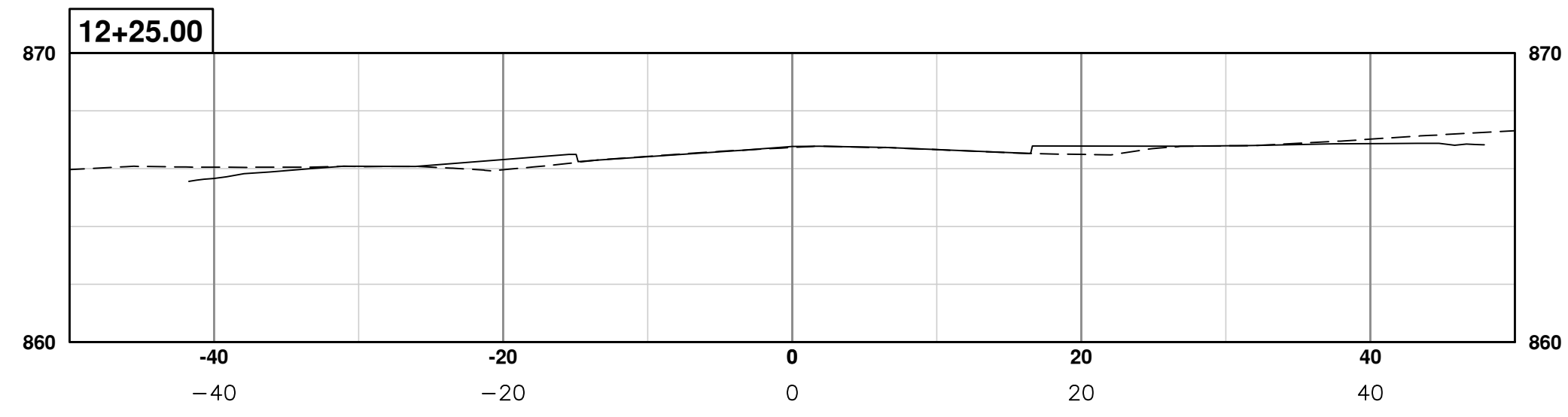
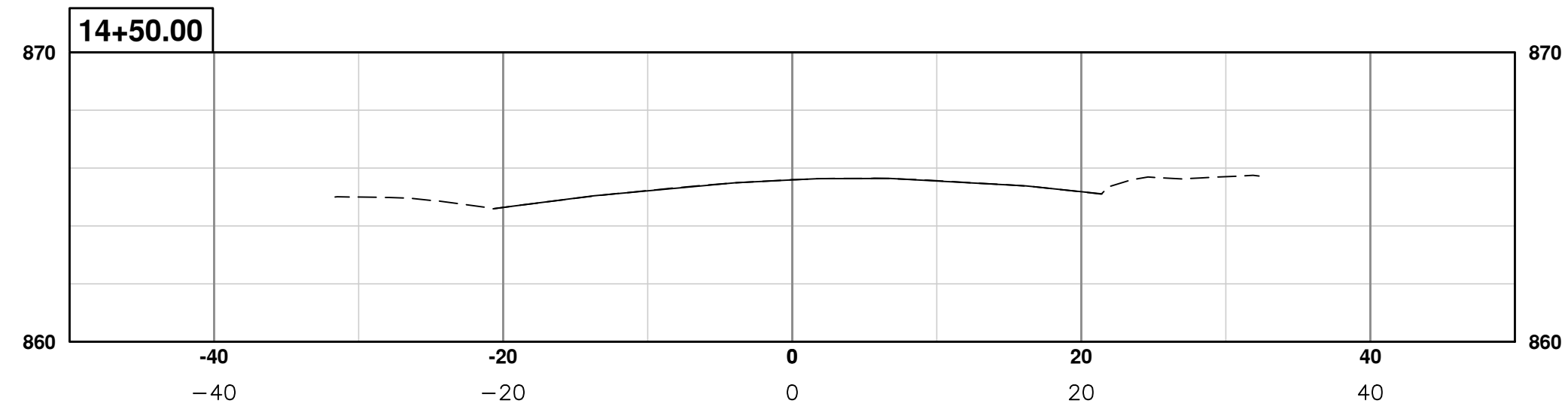
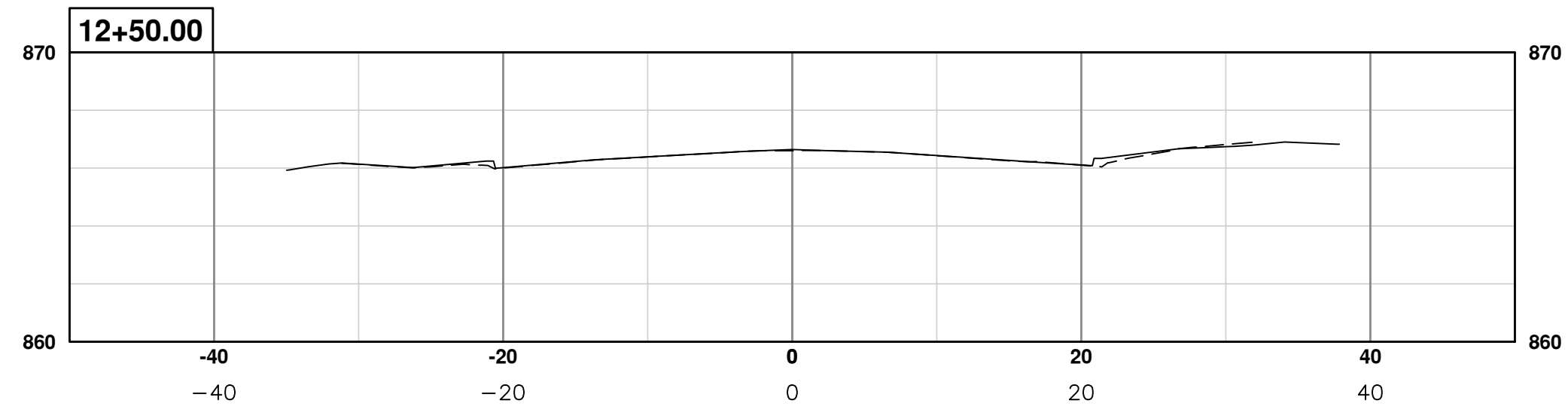
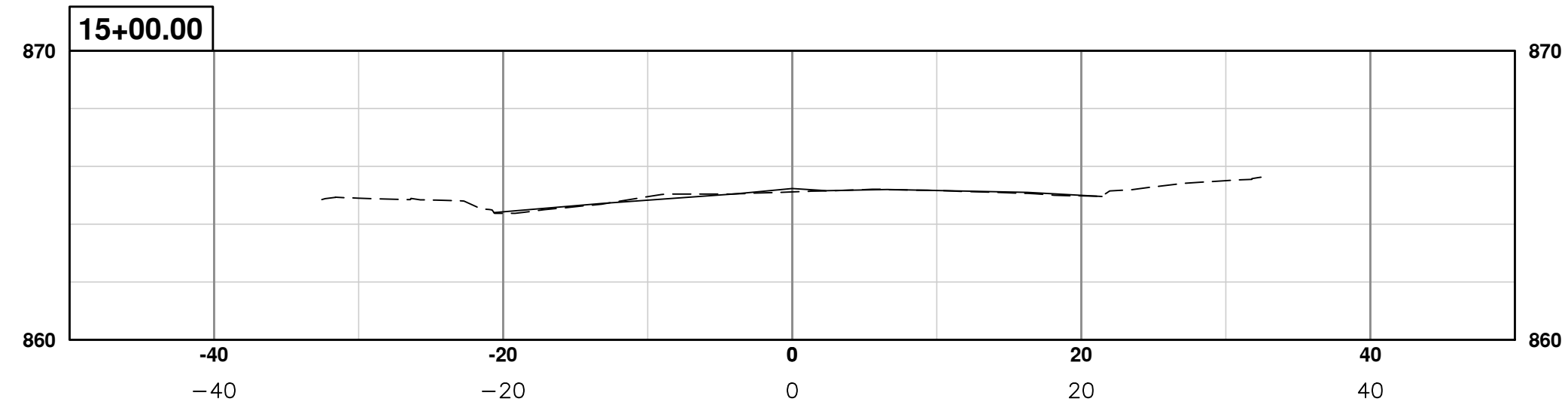
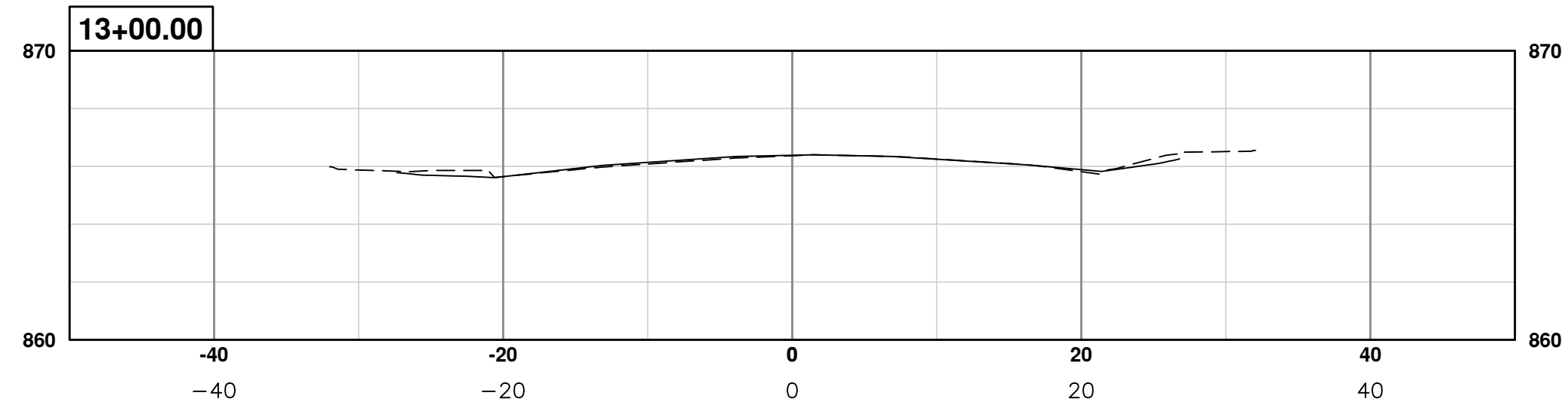
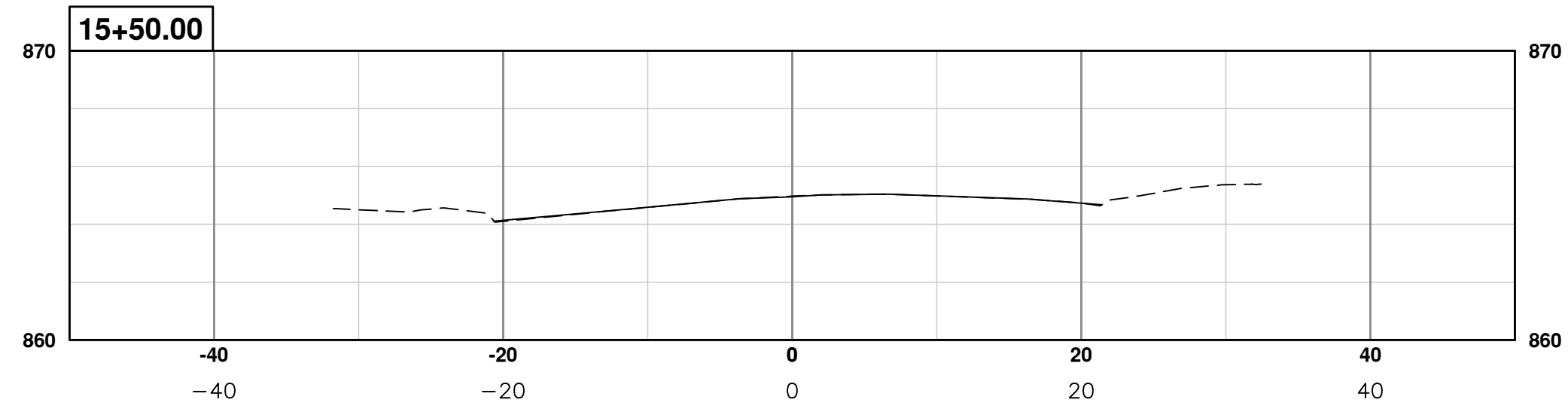
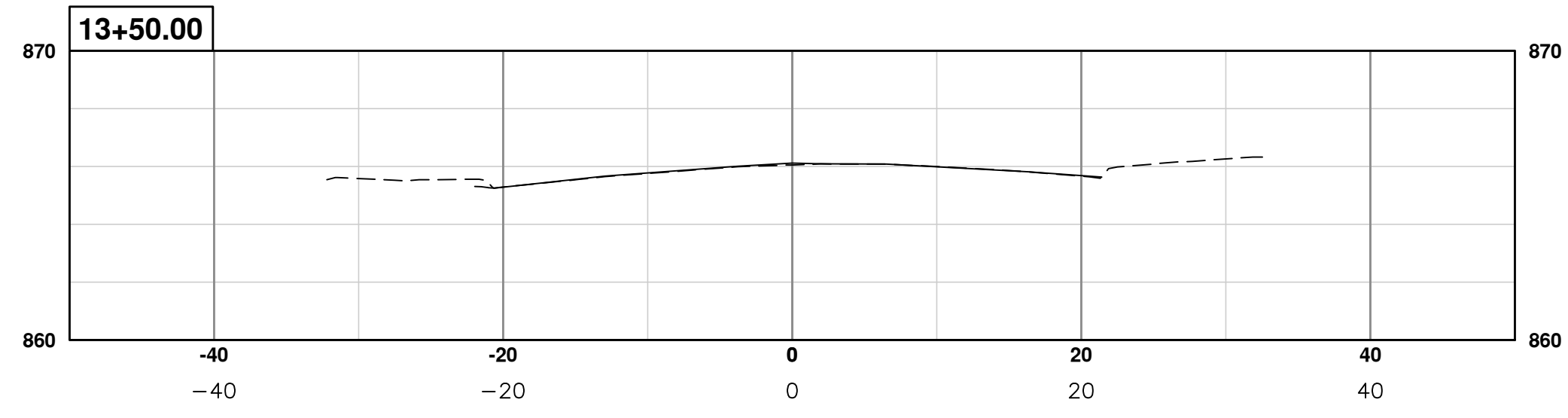
CITY OF ANN ARBOR
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 301 EAST HURON STREET
 ANN ARBOR, MI 48106-8647
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 SECT 9+00 TO 12+00

SCALE PLAN: 1" = 10'
 PROFILE: 1" = 5'
 DRAWING No. 2017004-111

S:\Project Management\Drafting\outocad\2017004\Plan Production\Major Streets\2017004 - S Division Street Sections.dwg Dwg Created: 20-Jan-17 - _02 standard bw.stb - Plot Date: 27-Mar-17



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	03-08-17	AG.GS.RG	DAD

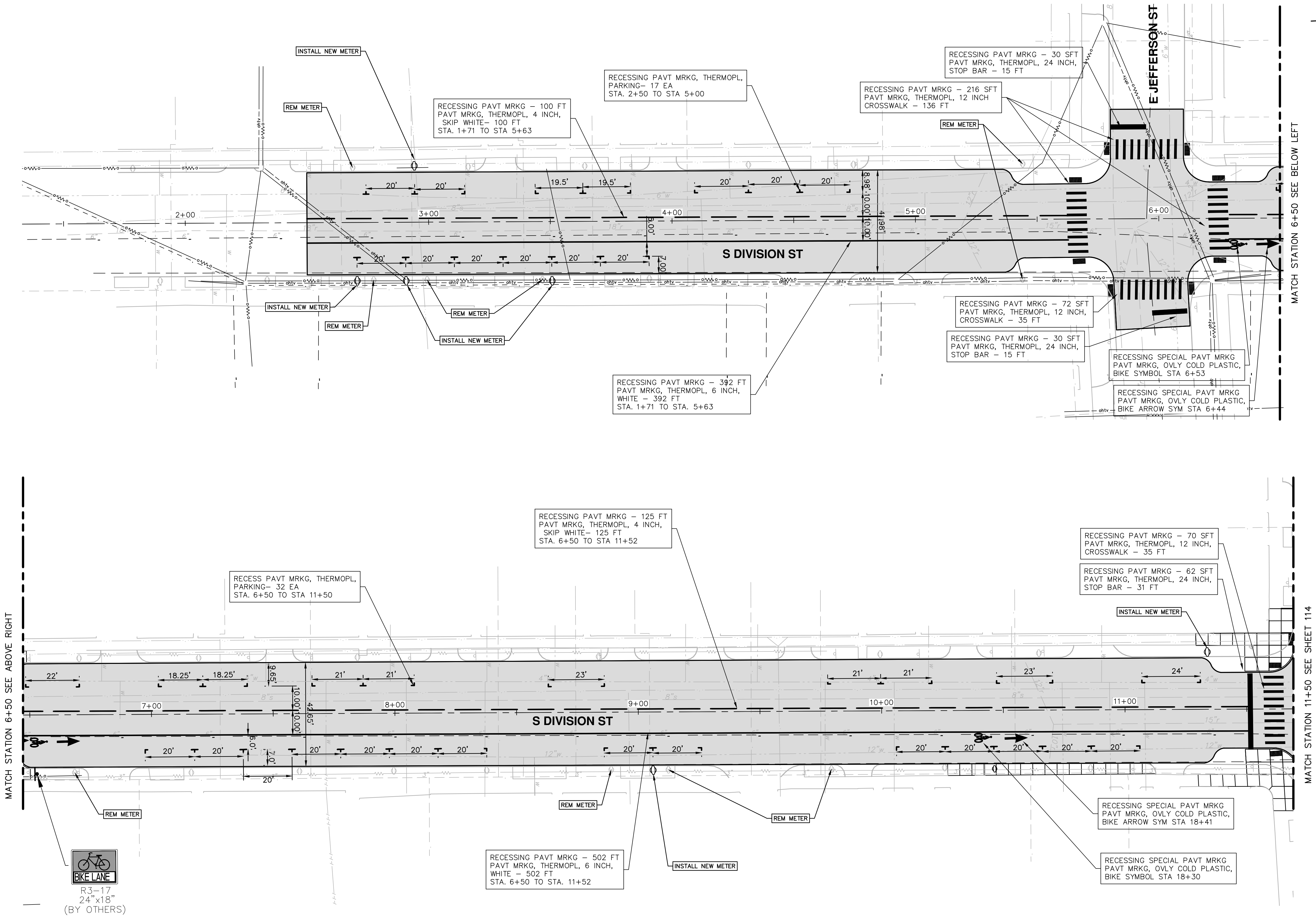
CITY OF ANN ARBOR
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S DIVISION STREET
SECT 12+25 TO 15+50

SCALE PLAN: 1" = 10'
PROFILE: 1" = 5'
DRAWING No. 2017004-112

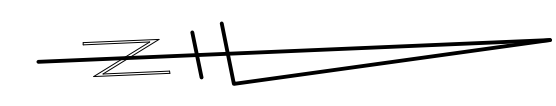
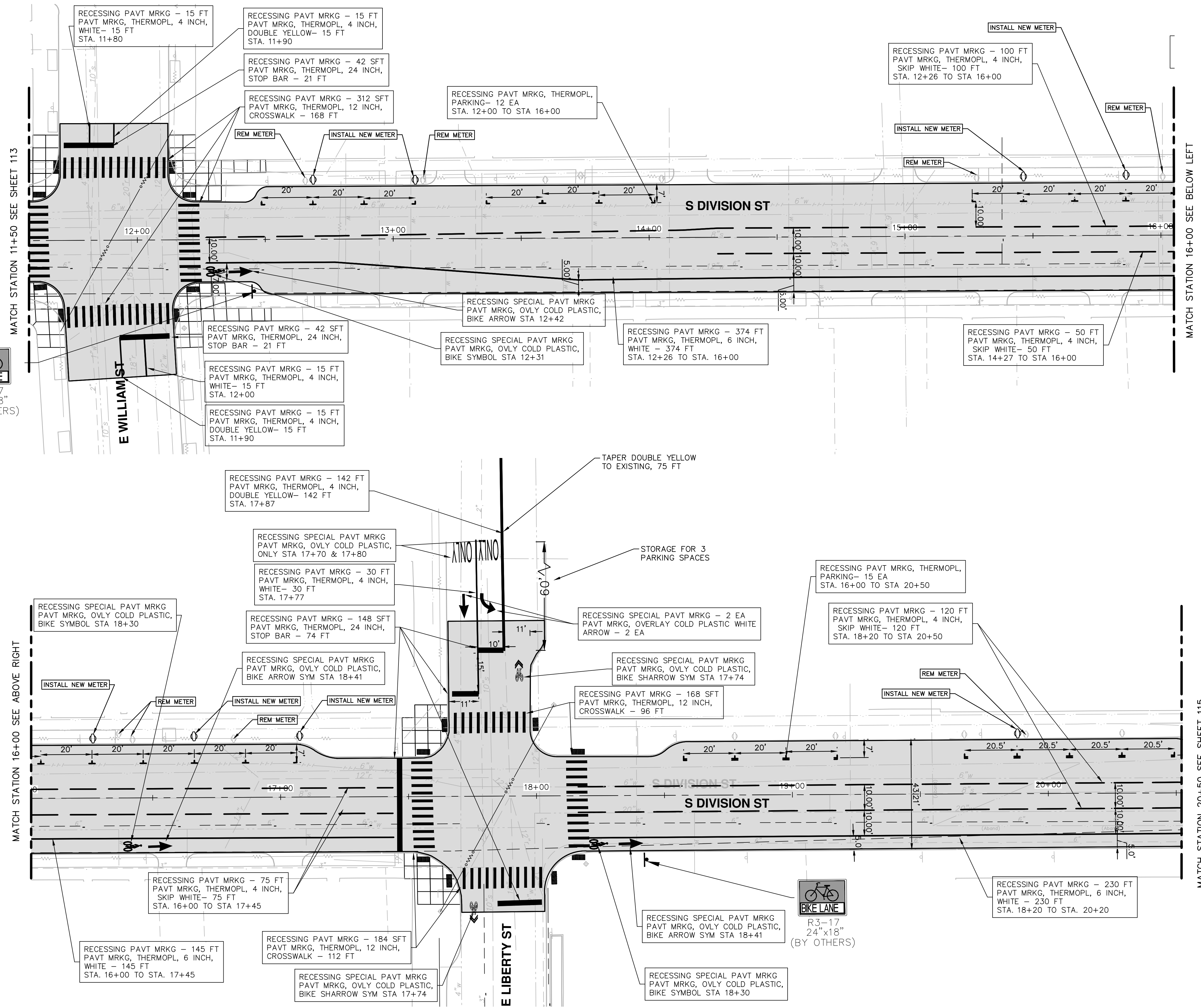
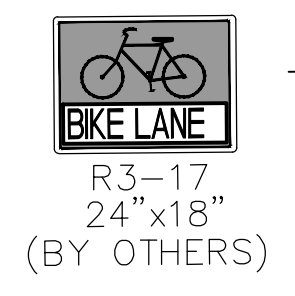
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R3-17
24"x18"
(BY OTHERS)

	
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2017 S DIVISION STREET PHARK POB TO 11+50	
SCALE PLAN: 1" = 20' DRAWING No. 2017004-113	SHEET No. 113 OF 136
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48106-8647 www.a2gov.org	
01 ADDENDUM #1 03-24-17 AG.GS.RG	00 BID SET 03-08-17 AG.GS.RG
DAD DAD	CHECKED CHECKED
DATE DATE	DESCRIPTION DESCRIPTION

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - S Division Street Pavement Markings.dwg Dwg Created: 20-Jan-17 - _g2 standard bw.stb - Plot Date: 27-Mar-17



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

ANNUAL STREET RESURFACING - 2017

S DIVISION STREET

PMARK 11+50 TO 20+50

SHEET No. 114 OF 136

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

REV.	DATE	DRAWN	CHECKED	DESCRIPTION
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00	03-08-17	AG.GS.RG	DAD	BID SET

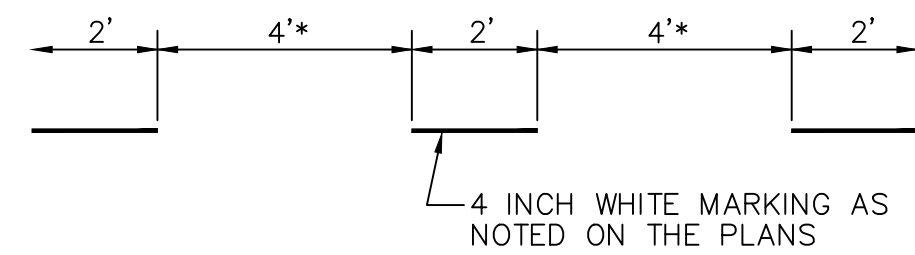
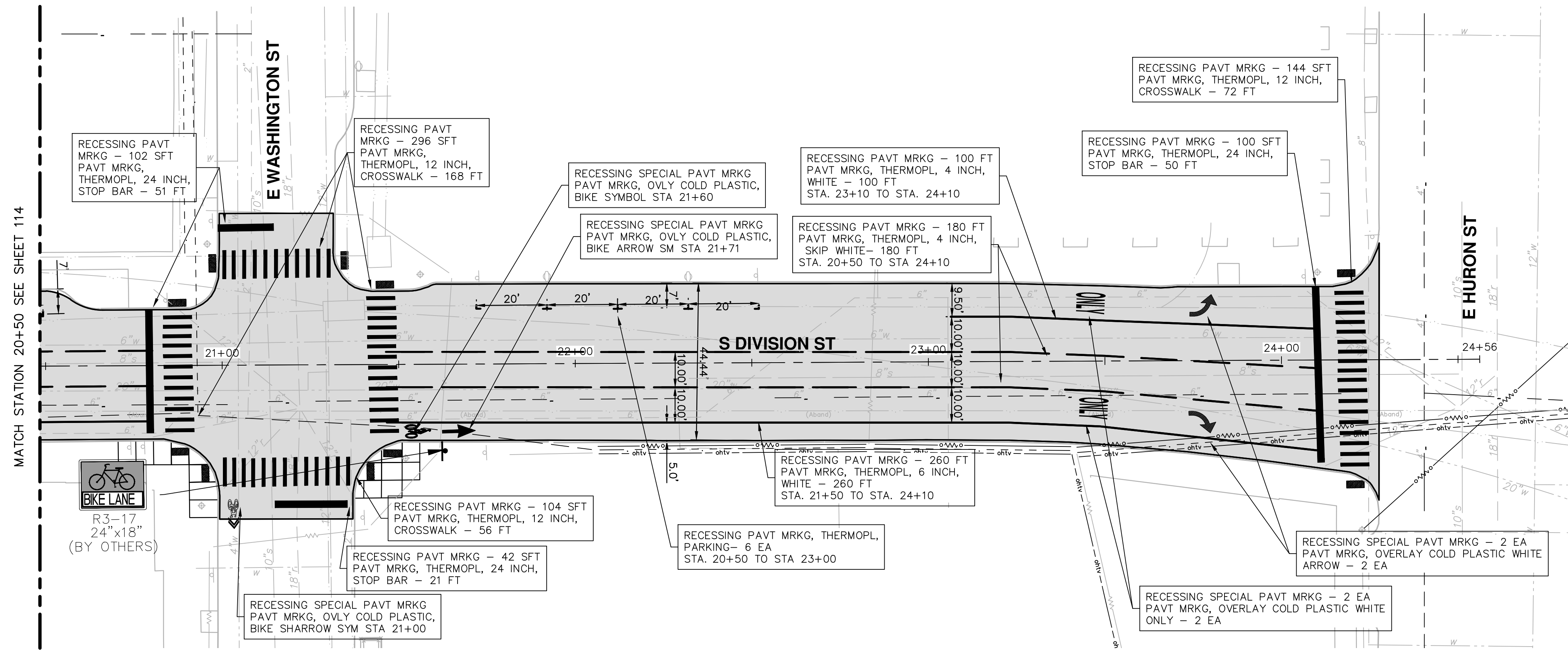
CITY OF ANN ARBOR
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ANN ARBOR MI 48108-8647
www.aagov.org

CITY OF ANN ARBOR MICHIGAN

SCALE PLAN: 1" = 20'

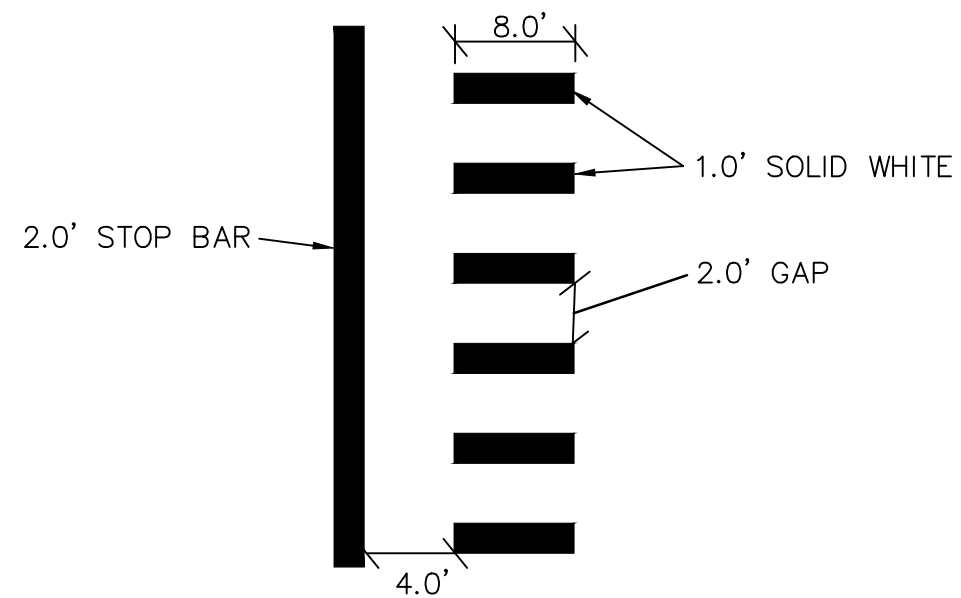
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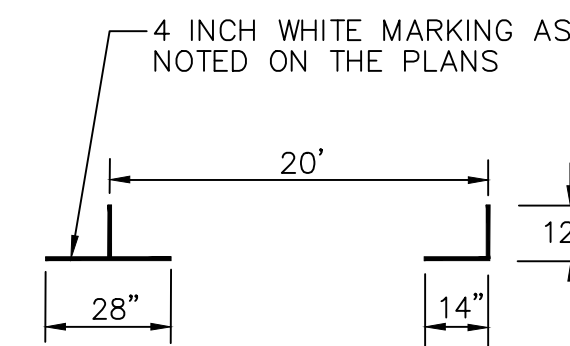


DOTTED LINE DETAIL

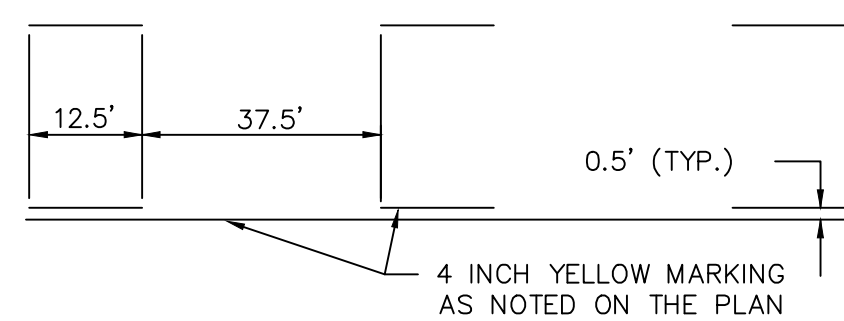
* NOTE FOR BROKEN LINE, USE 6" GAPS.



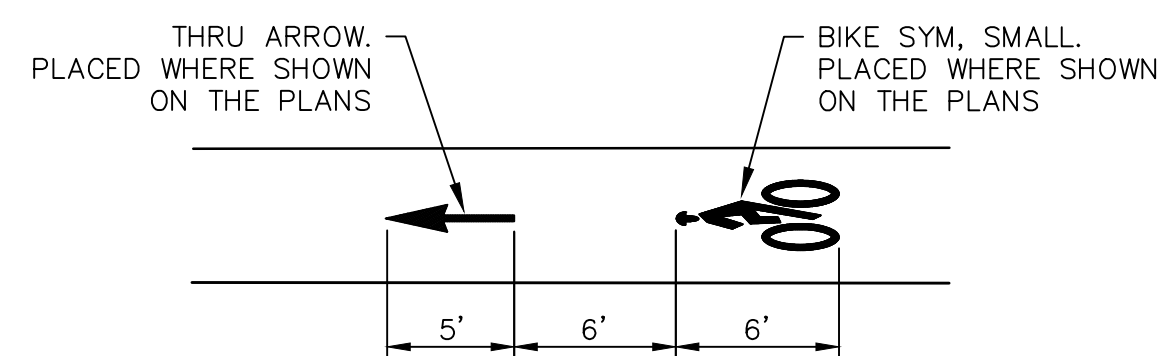
STOP BAR AND CROSSWALK DETAIL



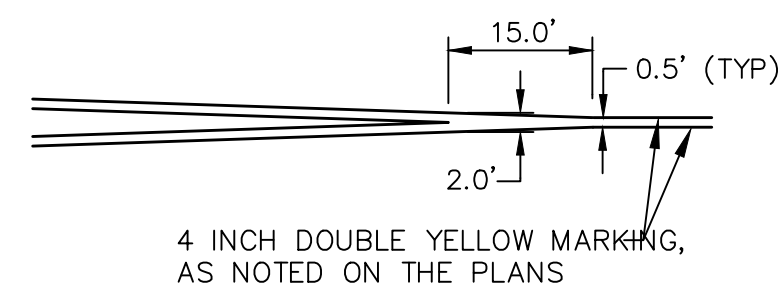
PARKING DETAIL



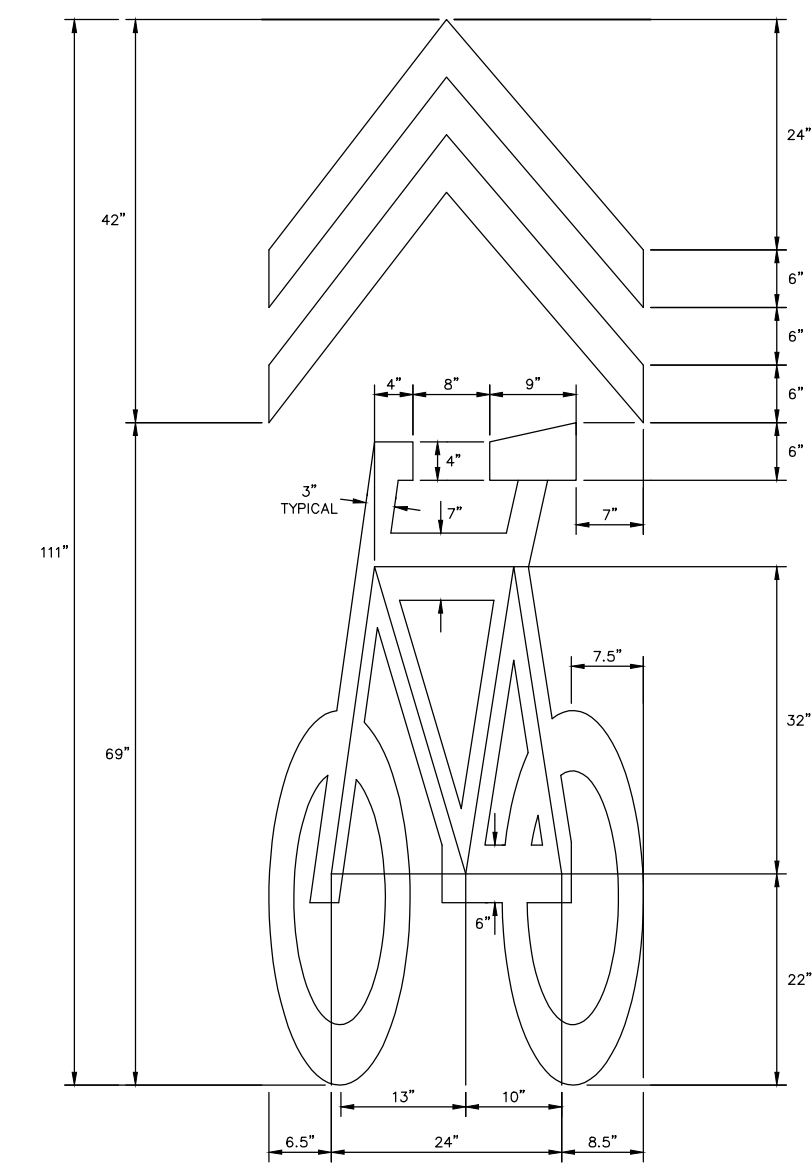
DASHED SEGMENT DETAIL



BIKE SYMBOL DETAIL



TYPICAL DOUBLE YELLOW SEPARATION DETAIL

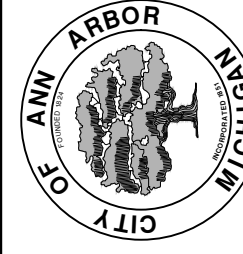


SHARROW BIKE SYMBOL DETAIL



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD

CITY OF ANN ARBOR
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S DIVISION STREET
P1MARK 20+50 TO POE

SCALE PLAN: 1" = 20'
DRAWING No.
2017004-115

SHEET No.



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: S UNIVERSITY AVENUE

ITB No. 4477 FILE No. 2017-004

QUANTITIES			
Item Code	Item Description	Units	Quantity
2057021	Subgrade Undercutting, Type IIA	Cyd	46.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	16.000
5010003	Cold Milling HMA Surface	Ton	465.000
5010061	HMA, Approach	Ton	82.000
5010703	HMA, LVSP	Ton	383.000
5017050	HMA Surface, Around Structure Cover, Rem	Ea	28.000
8110079	Pav Mrkg, Ovy Cold Plastic, Sharow Symbol	Ea	3.000
8110520	Pav Mrkg, Wet Retreflec, Thermopl, 4 inch, White	Ft	60.000
8110524	Pav Mrkg, Wet Retreflec, Thermopl, 4 inch, Yellow	Ft	1,716.000
8117001	Pav Mrkg, Wet Retreflec, Thermopl, 12 inch, Crosswalk	Ft	976.000
8117001	Pav Mrkg, Wet Retreflec, Thermopl, 24 inch, Stop Bar	Ft	164.000
8117001	Pav Mrkg, Wet Retreflec, Thermopl, 4 inch, Parking Sym, White	Ft	192.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	5.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	5.000
8120030	Channelizing Device, 42 inch, Furn	Ea	55.000
8120031	Channelizing Device, 42 inch, Oper	Ea	55.000
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	12.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	12.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	2.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	500.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	500.000

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 Dr Structure, Point
PT	Dr Structure, Point
RRA	Dr Structure Cover, Type B Dr Structure Cover, Type B, Special Dr Structure, Adj, Case 1, Modified Dr Structure, Temp Lowering, Modified
RRK	Dr Structure Cover, Type K Dr Structure, Adj, Case 1, Modified
RS	Dr Structure, Reconstruct
TYPE II	Plastic Drum, High Intensity, Lighted, Furn Plastic Drum, High Intensity, Lighted, Oper
TYPE III	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
17.0	D3-1	Street Name Sign	4.000	68.000
1.0	M4-10R	Detour Arrow Sign	6.000	6.000
1.0	M4-8a	End Detour Sign	3.000	3.000
7.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	35.000
1.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	5.000
6.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	30.000
2.0	R5-1	Do Not Enter Sign	6.250	12.500
2.0	R5-1A	Wrong Way Sign	6.000	12.000
3.0	R11-2	Road Closed Sign ("Road Closed")	10.000	30.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
3.0	R3-1	Movement Prohibition Sign ("No Right Turn")	4.000	12.000
2.0	R3-2	Movement Prohibition Sign ("No Left Turn")	4.000	8.000
3.0	R6-1L	One Way (Left) Sign	3.000	9.000
3.0	R6-1R	One Way (Right) Sign	3.000	9.000
7.0	SP-1	Special Sign	20.000	140.000
9.0	W20-1	Road Work Ahead Sign	9.000	81.000
2.0	W20-2	Detour Ahead Sign	9.000	18.000
1.0	W20-3	Road Closed Ahead Sign	9.000	9.000
		TOTAL		500.00

CONSTRUCTION METHOD AND SEQUENCING

WORK ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AS DIRECTED BY THE ENGINEER, AND UTILIZING PART WIDTH TWO (2) PHASE CONSTRUCTION. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER. COMPLETE ITEMS 12 THRU 14 UTILIZING THE M.O.T. PLAN CURRENTLY IN PLACE, LANE CLOSURES, AND FLAG CONTROL OPERATIONS AS DIRECTED BY THE ENGINEER.

PHASE I

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION.
- REMOVE 2 INCHES OF EXISTING HMA SURFACE BY COLDMILLING.
- PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (LVSP).

PHASE II

- REPEAT ITEMS 1 THRU 6 IN THE ORDER SHOWN SHOWN ABOVE.
- REMOVE 2 INCHES OF EXISTING HMA SURFACE BY COLDMILLING.
- PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (LVSP).
- CLEAN PAVEMENT AND PLACE HMA APPROACHES AS REQUIRED.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- 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 THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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



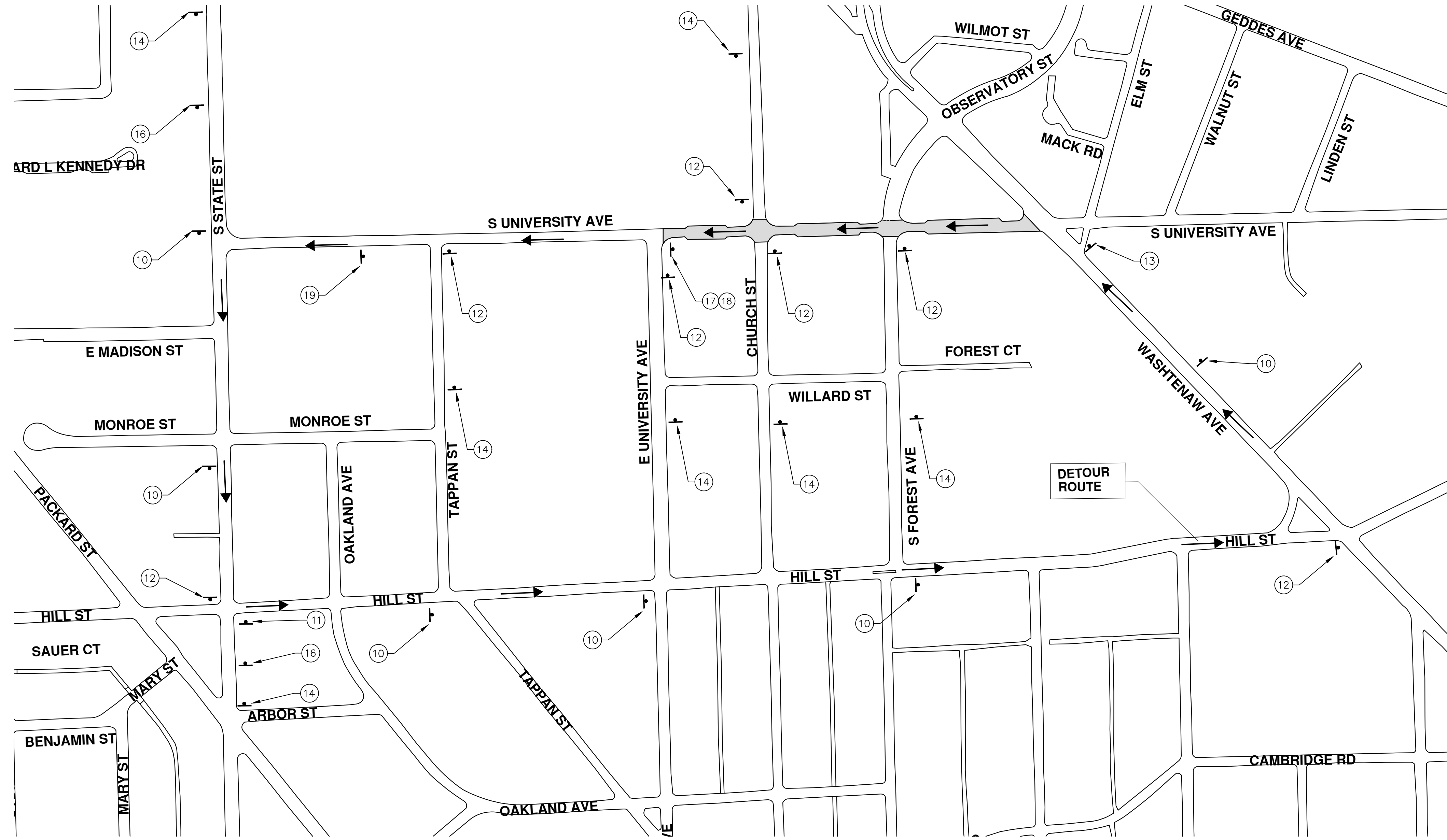
PROJECT MANAGEMENT SERVICES UNIT

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

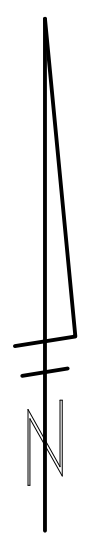
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S UNIVERSITY AVENUE



TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
10		D3-1 M4-9S 30x24
11		D3-1 M4-9R 30x24
12		D3-1 M4-9L 30x24
13		D3-1 M4-8a 24x18
14		SPECIAL 48x60
15		SPECIAL 48x60
16		W20-2 36"x36"
17		R5-1 30"x30"
18		R5-1A 42"x30"
19		W20-3 36"x36"



REV.	DATE	DESCRIPTION
01	03-24-17	AG.GS.RG
00	03-08-17	AG.GS.RG
		DRAWN
		CHECKED

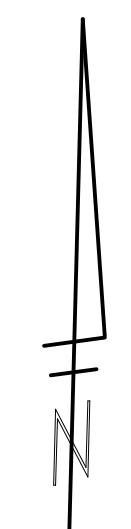
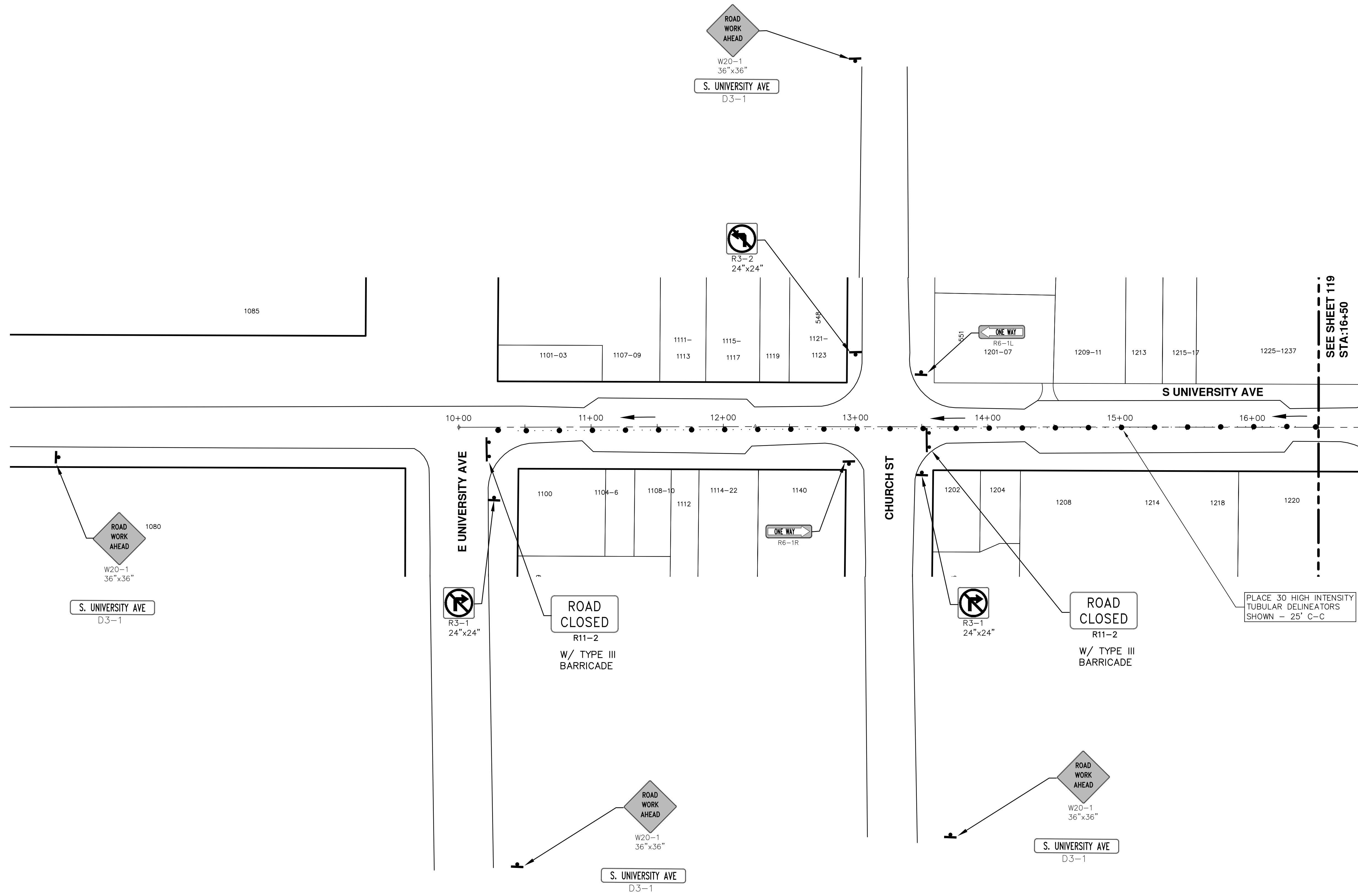
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 PUBLIC SERVICES
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 ANN ARBOR, MI 48106-8647
 ANN ARBOR 734-794-4410
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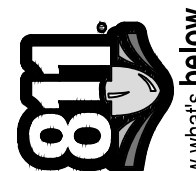


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 S UNIVERSITY AVENUE
 DETOUR

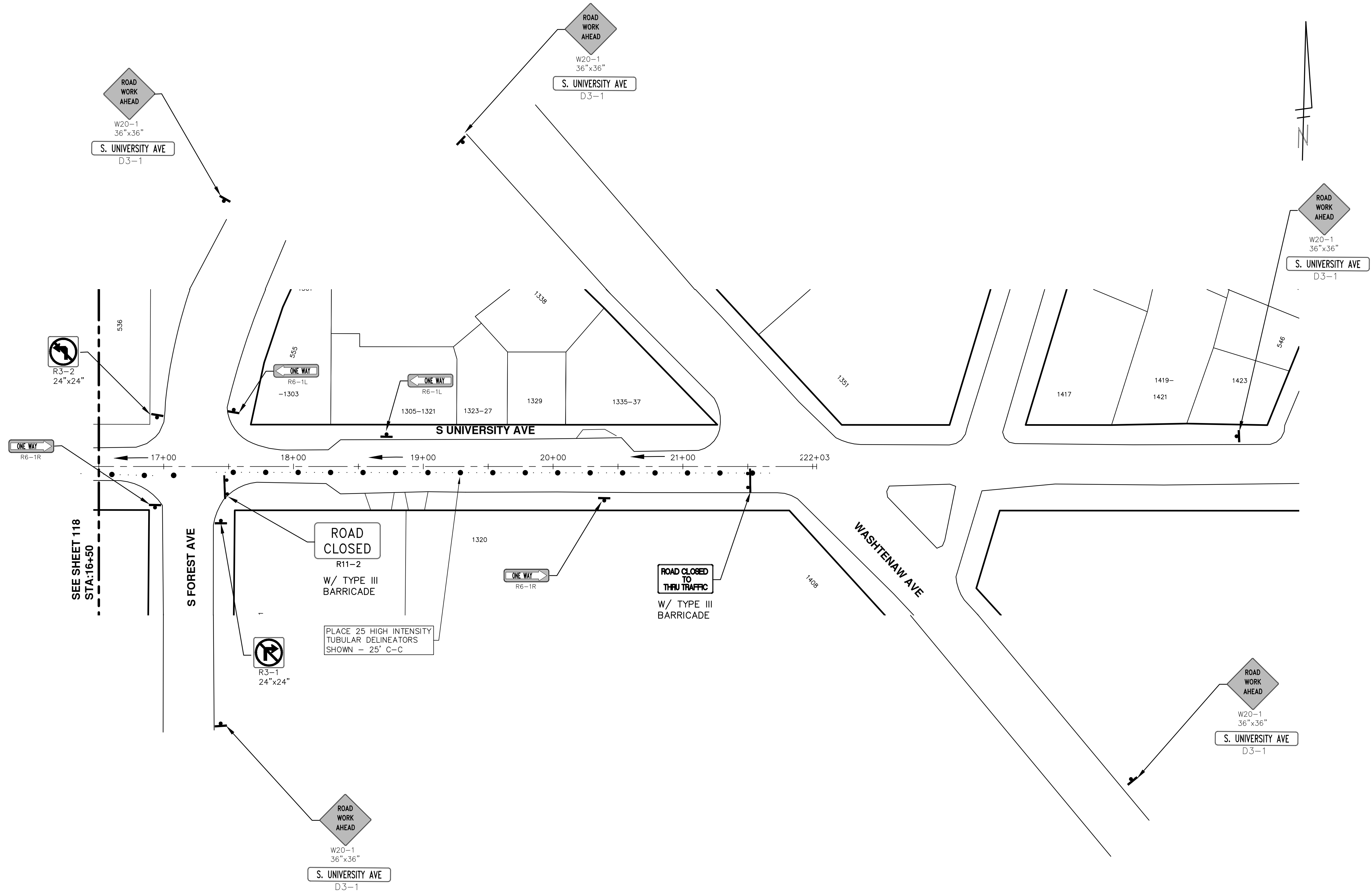
SCALE PLAN: 1" = 200'
 DRAWING No. 2017004-117

S:\Project_Management\Drafting\autocad\2017004\Plan_Production\Major_Streets\2017004 - S University Avenue TRFC.dwg Dwg Created: 21-Dec-16 - _02_standard bw.stb - Plot Date: 27-Mar-17



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CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-0667 www.a2gov.org	ADDENDUM #1 BID SET DATE DESCRIPTION REV.
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2017 S UNIVERSITY AVENUE TRAFFIC CONTROL	SCALE PLAN: 1" = 40' DRAWING No. 2017004-118
SHEET No. 118 OF 136	

S:\Project_Management\Drafting\autocad\2017004\Plan_Production\Major_Streets\2017004 - S University Avenue TRFC.dwg Dwg Created: 21-Dec-16 - _02_standard_bw.stb - Plot Date: 27-Mar-17



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 S UNIVERSITY AVENUE
 TRAFFIC CONTROL

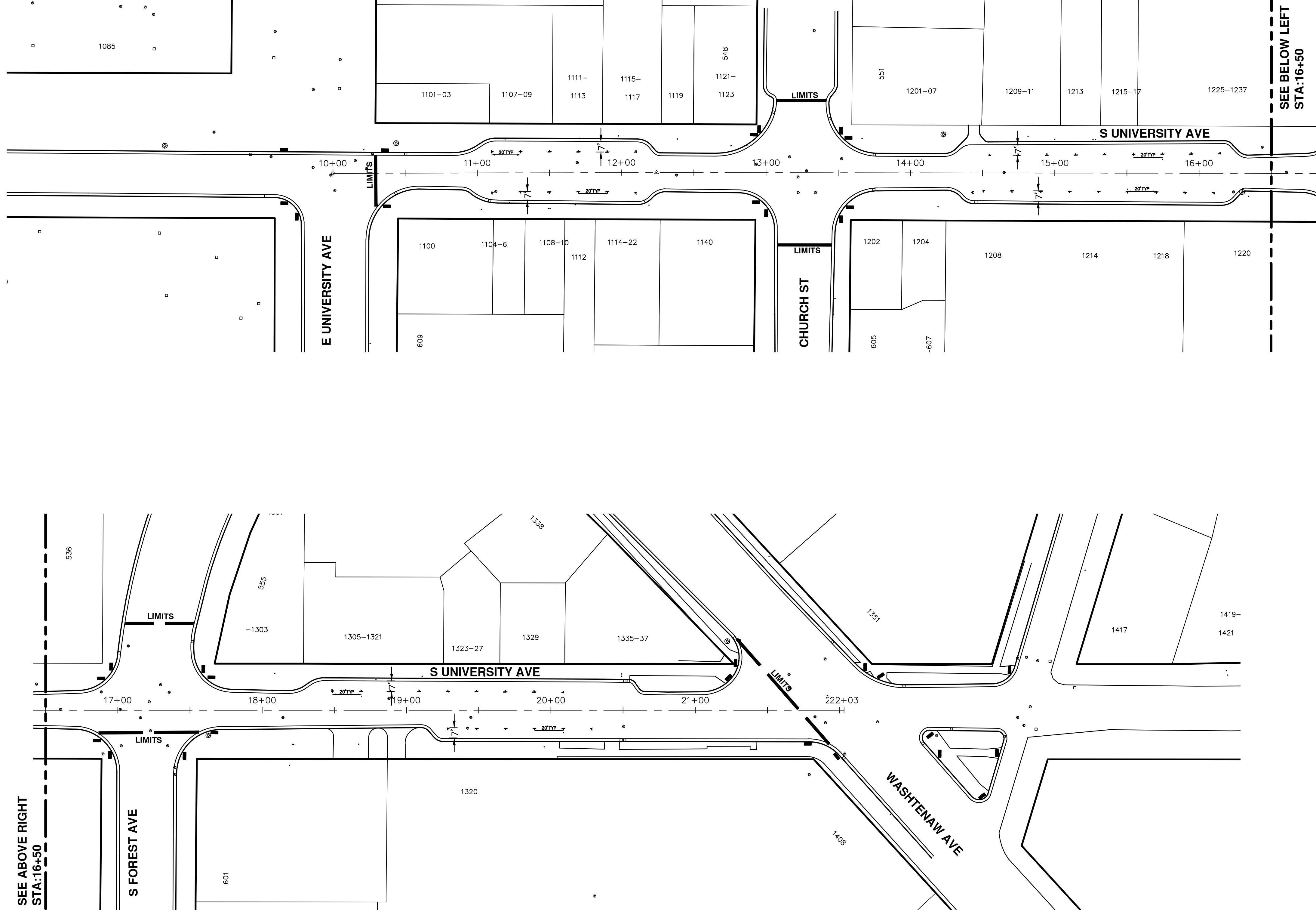
SCALE PLAN: 1" = 40'
 DRAWING No. 2017004-119

SHEET No. 119 OF 136

REV.	DATE	DESCRIPTION
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00	03-08-17	AG.GS.RG
		DRAWN
		CHECKED

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811
 Know what's below.
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SEE ABOVE RIGHT
STA:16+50

S FOREST AVE

E UNIVERSITY AVE

CHURCH ST

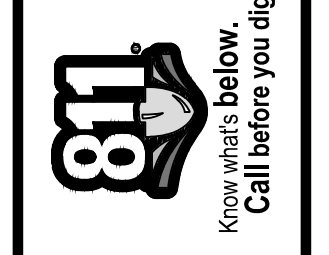
WASHTENAW AVE

SEE BELOW LEFT
STA:16+50

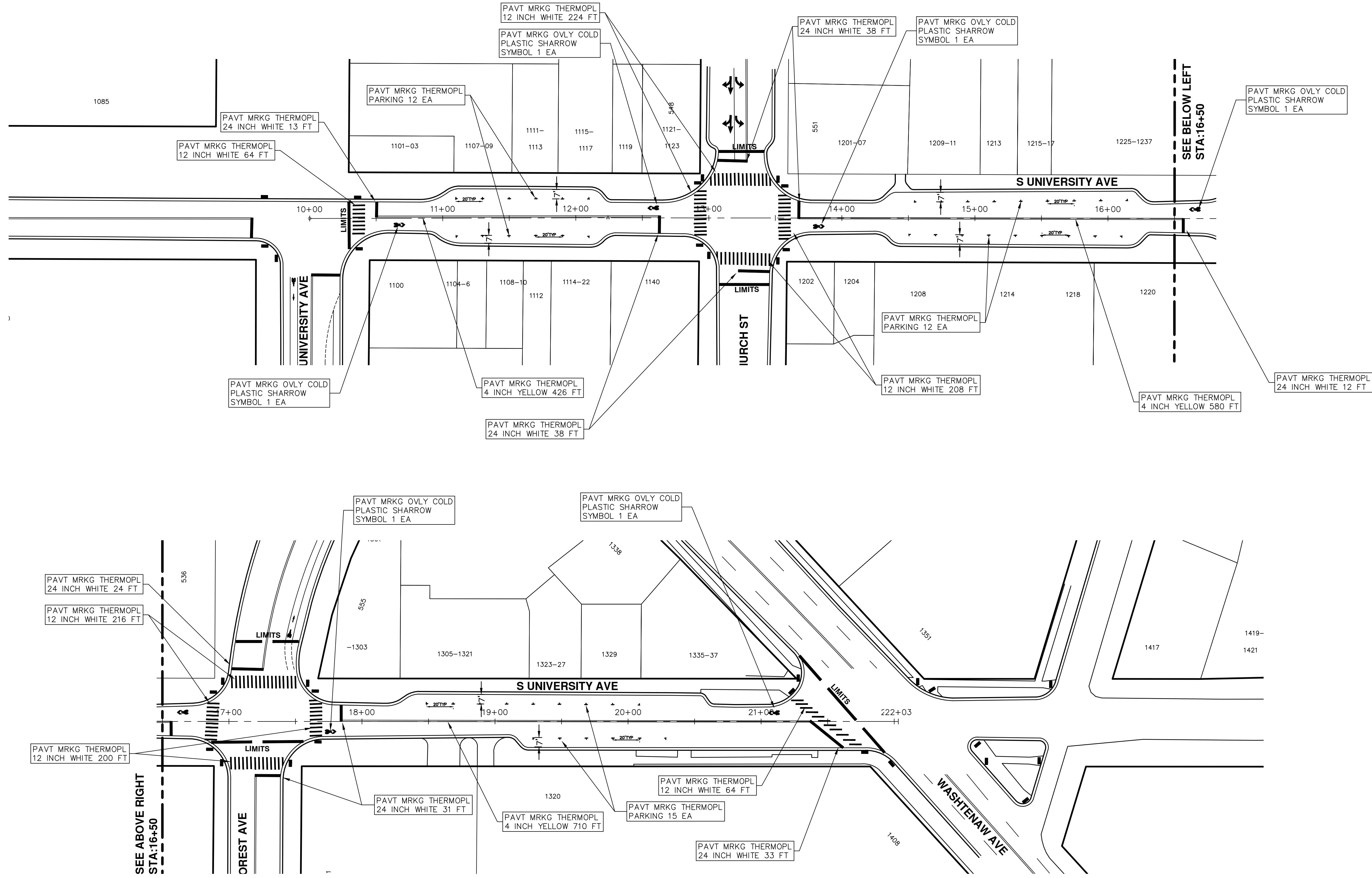


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	03-08-17	AG.GS.RG	DAD

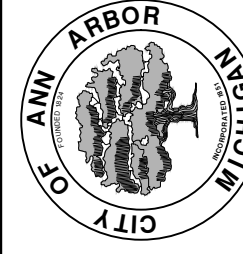


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ANNUAL STREET RESURFACING - 2017
S UNIVERSITY AVENUE
PAVEMENT MARKINGS

SCALE PLAN: 1"=80'
DRAWING No. 2017004-121

SHEET No. 121 OF 136

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GSRG	DAD
00	BID SET	03-08-17	AG.GSRG	DAD



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: WEST LIBERTY STREET

ITB No. 4477 FILE No. 2017-004

CONSTRUCTION METHOD AND SEQUENCING

WORK ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AS DIRECTED BY THE ENGINEER, AND UTILIZING PART WIDTH TWO (2) PHASE CONSTRUCTION. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER. COMPLETE ITEMS 12 THRU 14 UTILIZING THE M.O.T. PLAN CURRENTLY IN PLACE, LANE CLOSURES, AND FLAG CONTROL OPERATIONS AS DIRECTED BY THE ENGINEER.

PHASE I

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION.
- REMOVE 2 INCHES OF EXISTING HMA SURFACE BY COLDMILLING.
- PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (MAJOR STREETS).

PHASE II

- REPEAT ITEMS 1 THRU 6 IN THE ORDER SHOWN ABOVE.
- REMOVE 2 INCHES OF EXISTING HMA SURFACE BY COLDMILLING.
- PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (MAJOR STREETS).
- CLEAN PAVEMENT AND PLACE HMA APPROACHES AS REQUIRED.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- 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 THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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

QUANTITIES			
Item Code	Item Description	Units	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	254.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	191.000
2057011	_Grading, Sidewalk	Syd	73.000
2057011	_Grading, Sidewalk Ramp	Syd	120.000
2057021	_Subgrade Undercutting, Type IIA	Cyd	177.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	13.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	1.000
5010003	Cold Milling HMA Surface	Ton	1,240.000
5010005	HMA Surface, Rem	Syd	70.000
5010025	Hand Patching	Ton	3.000
5010057	HMA, 5E3	Ton	1,196.000
5010061	HMA, Approach	Ton	53.000
5017050	_HMA Surface, Around Structure Cover, Rem	Ea	7.000
6027021	_Flowable Fill	Cyd	9.407
8027001	_Curb and Gutter, Conc	Ft	254.000
8037001	_Detectable Warning Surface, Modified	Ft	100.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1072.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	650.000
8110049	Pav Mrkg, Ovy Cold Plastic, Direction Arrow Sym, Bike	Ea	11.000
8110058	Pav Mrkg, Ovy Cold Plastic, Bike, Small Sym	Ea	11.000
8110520	Pav Mrkg, Wet Retrflec, Thermopl, 4 inch, White	Ft	1,639.000
8110521	Pav Mrkg, Wet Retrflec, Thermopl, 6 inch, White	Ft	3,076.000
8110524	Pav Mrkg, Wet Retrflec, Thermopl, 4 inch, Yellow	Ft	6,568.000
8117001	_Pav Mrkg, Wet Retrflec, Thermopl, 12 inch, Crosswalk	Ft	112.000
8117001	_Pav Mrkg, Wet Retrflec, Thermopl, 24 inch, Stop Bar	Ft	34.000
8117050	_Pav Mrkg, Wet Retrflec, Thermopl, Only	Ea	5.000
8117050	_Pav Mrkg, Wet Retrflec, Thermopl, Lt Turn Arrow Sym	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Fum	Ea	6.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	6.000
8120140	Lighted Arrow, Type C, Fum	Ea	2.000
8120141	Lighted Arrow, Type C, Oper	Ea	2.000
8120260	Plastic Drum, High Intensity, Lighted, Fum	Ea	150.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	150.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	4.000
8120350	Sign, Type B, Temp, Prismatic, Fum	Sft	493.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	493.000
8167011	_Slope Restoration	Syd	94.000

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
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
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, Fum •_Plastic Drum, High Intensity, Lighted, Oper
TYPE III	•_Barricade, Type III, High Intensity, Double Sided, Lighted, Fum •_Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
26.0	D3-1	Street Name Sign	4.000	104.000
1.0	M4-10L	Detour Arrow Sign	6.000	6.000
1.0	M4-8a	End Detour Sign	3.000	3.000
2.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	10.000
3.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	15.000
8.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	40.000
1.0	R3-7(R)	Right Lane Must Turn Right Sign	6.250	6.250
1.0	R3-7(L)	Left Lane Must Turn Left Sign	6.250	6.250
2.0	R5-1	Do Not Enter Sign	6.250	12.500
2.0	R5-1A	Wrong Way Sign	6.000	12.000
4.0	R11-2	Road Closed Sign ("Road Closed")	10.000	40.000
0.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	0.000
3.0	R3-1	Movement Prohibition Sign ("No Right Turn")	4.000	12.000
2.0	R3-2	Movement Prohibition Sign ("No Left Turn")	4.000	8.000
0.0	R3-8	Advance Intersection Lane Control Sign (Left Turn On-y or Right Turn Only)	7.500	0.000
0.0	R3-8	Advance Intersection Lane Control Sign (Thru Only or Right Turn Only)	7.500	0.000
5.0	R6-1 L	One Way (Left) Sign	3.000	15.000
2.0	R6-1R	One Way (Right) Sign	3.000	6.000
4.0	SP-1	Special Sign	20.000	80.000
9.0	W20-1	Road Work Ahead Sign	9.000	81.000
2.0	W20-2	Detour Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000



PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
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734-794-6410 www.a2gov.org

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
WEST LIBERTY STREET
DRAWING NO. 2017004-122




TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
10	 W. LIBERTY RD DETOUR ↑	D3-1 M4-9S 30x24
11	 W. LIBERTY RD DETOUR →	D3-1 M4-9R 30x24
12	 W. LIBERTY RD DETOUR ←	D3-1 M4-9L 30x24
13	 W. LIBERTY RD DETOUR ENDS	D3-1 M4-8a 24X18
14	 WEST BOUND LIBERTY RD CLOSED AT MAPLE RD	SPECIAL 48x60
15	 WEST BOUND LIBERTY RD CLOSED	SPECIAL 48x60
16	 DETOUR AHEAD W20-2 36"x36" W. LIBERTY RD D3-1	W20-2 36"x36"
17	 DO NOT ENTER R5-1 30"x30"	R5-1 30"x30"
18	 WRONG WAY R5-1A 42"x30"	R5-1A 42"x30"
19	 ROAD CLOSED AHEAD W20-3 36"x36" W. LIBERTY RD D3-1	W20-3 36"x36"

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 WEST LIBERTY STREET
 DETOUR


SCALE PLAN: N/A
 DRAWING No. 2017004-123

SHEET No. 123 OF 136

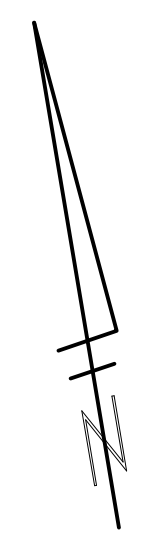
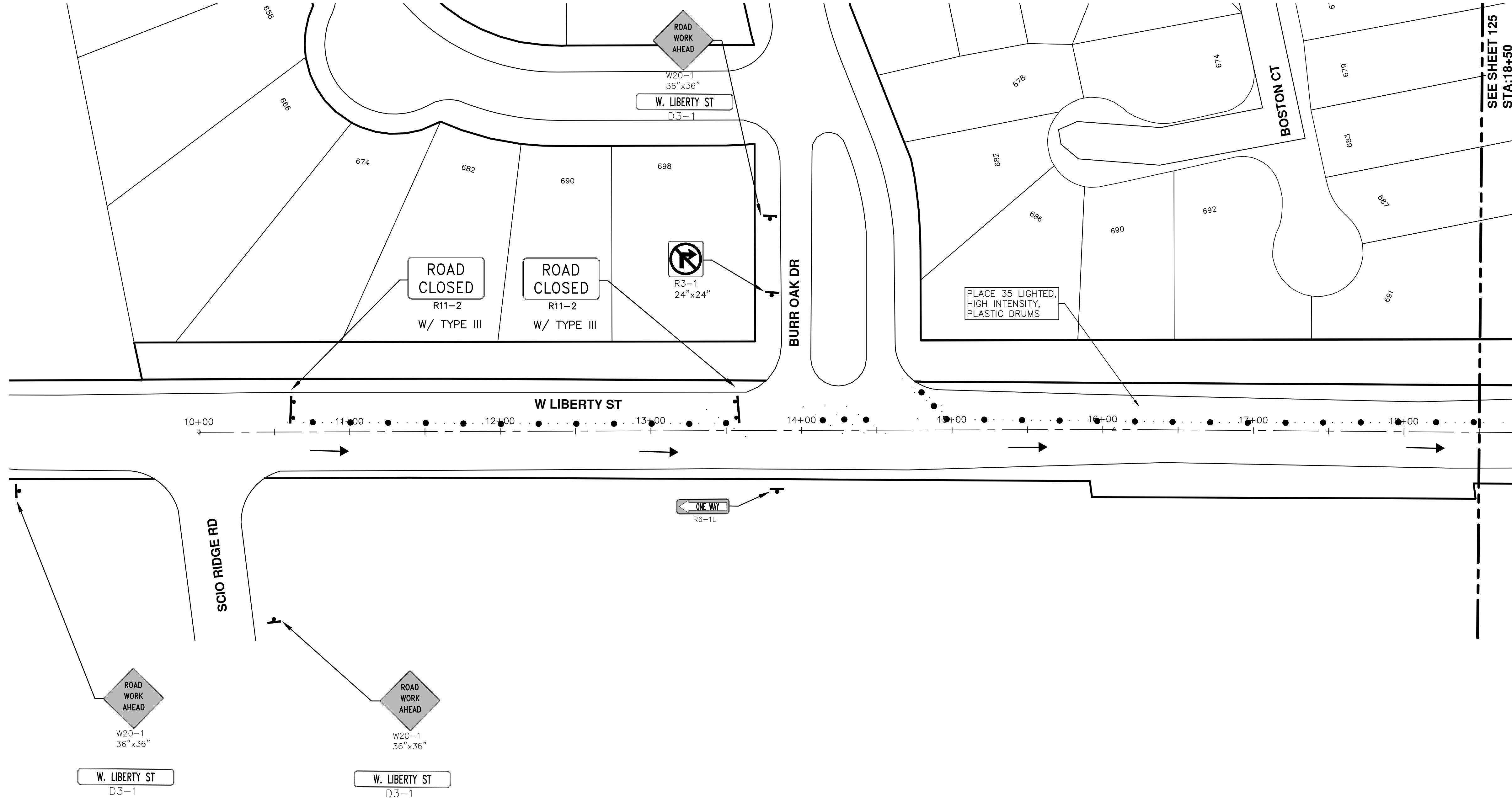




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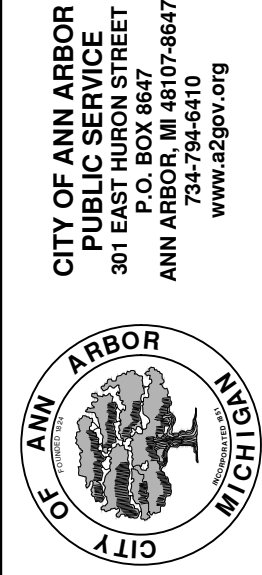
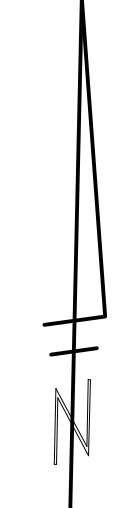
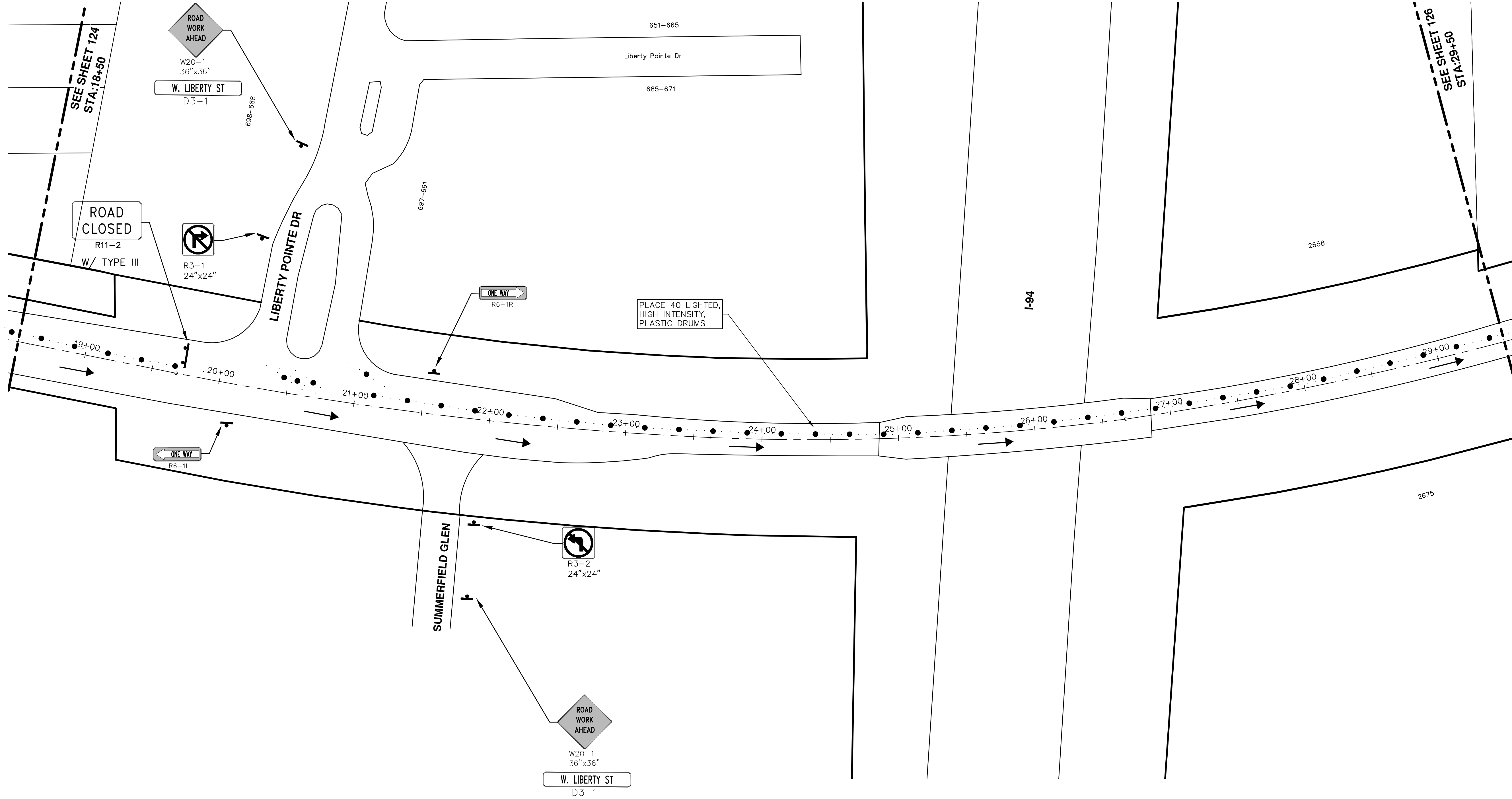
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		PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2017 WEST LIBERTY STREET TRAFFIC CONTROL	
SCALE PLAN: 1" = 40' 		SHEET No. 124 OF 136 DRAWING No. 2017004-124	
CITY OF ANN ARBOR PUBLIC SERVICE 301 EAST HURON STREET ANN ARBOR, MI 48106-6647 ANN ARBOR: 734-794-4410 WWW.A2GOV.ORG			
REV.	DESCRIPTION	DATE	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG
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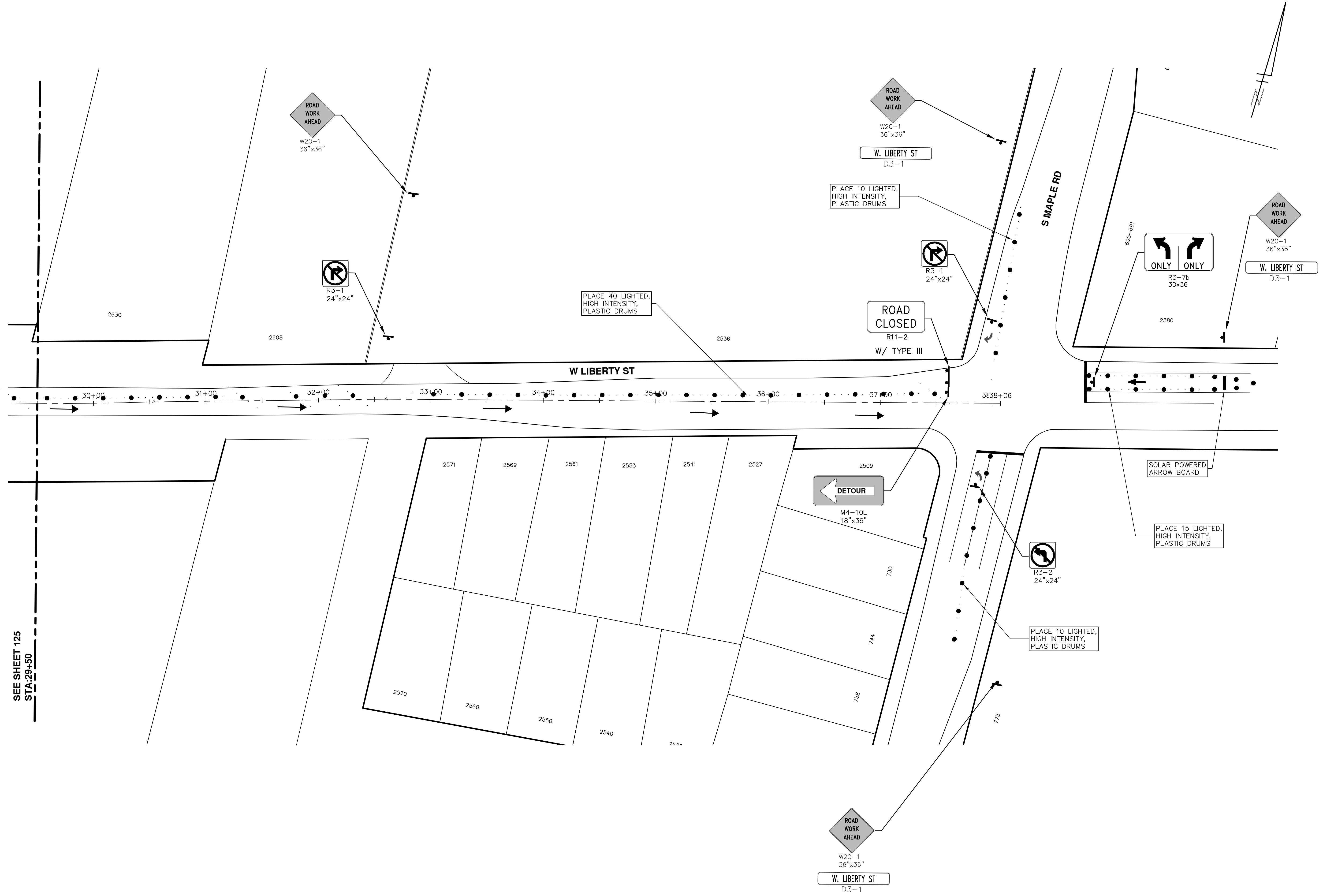
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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	03-24-17	AG.GS.RG	DAD	
00	03-08-17	AG.GS.RG	DAD	




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SEE SHEET 125
STA: 29+50



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REV.	DESCRIPTION
01	ADDENDUM #1
00	BID SET
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DAD	CHECKED
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DAD	DAD

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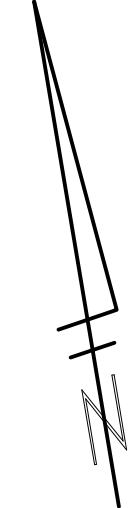
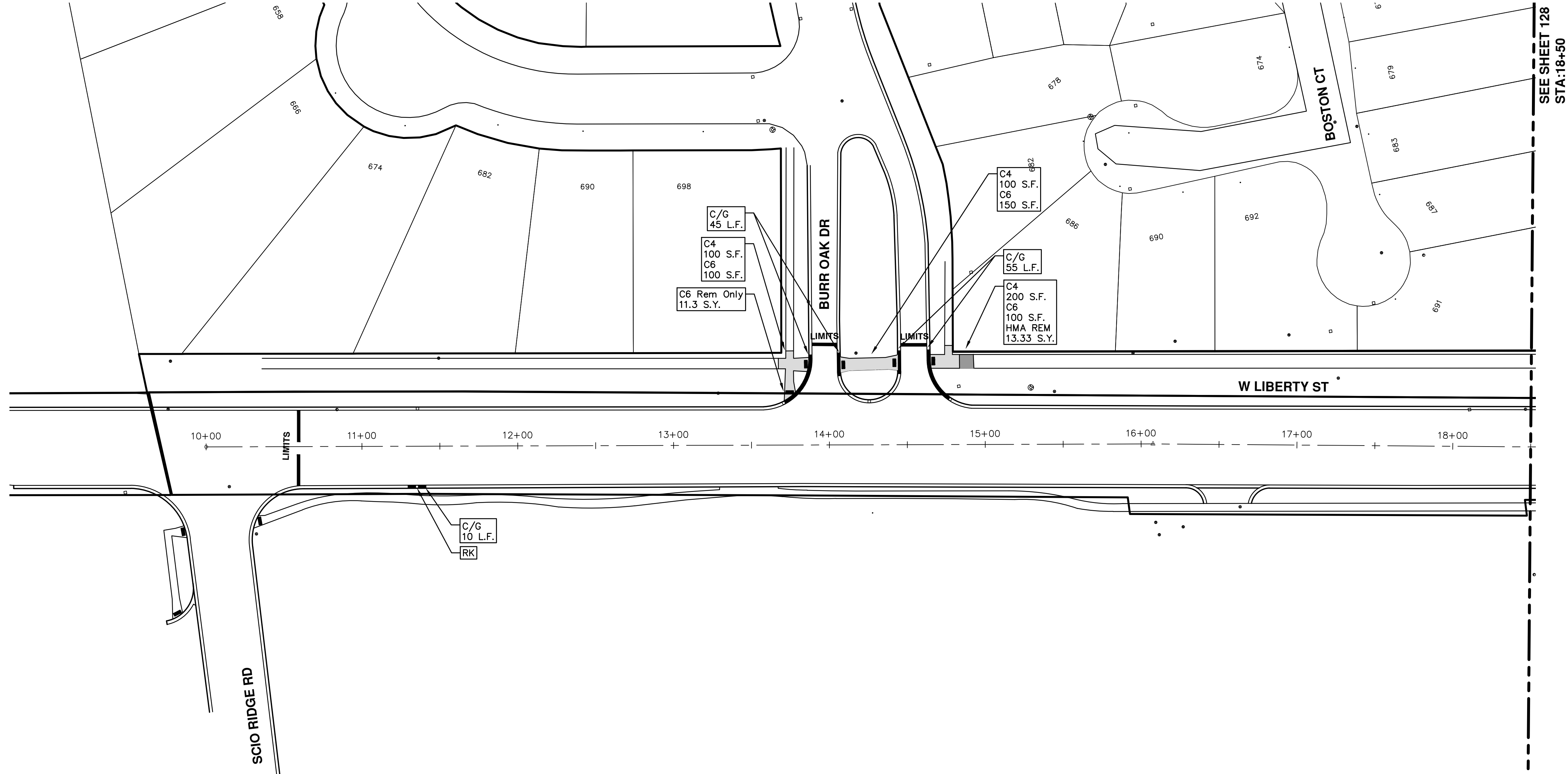


 CITY OF ANN ARBOR MICHIGAN

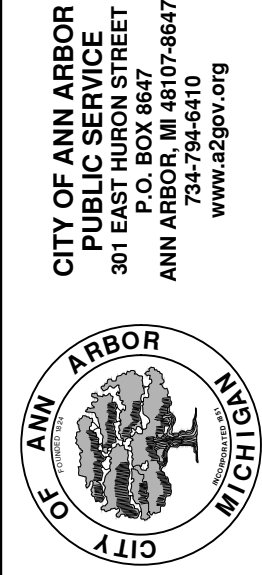
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 WEST LIBERTY STREET
 TRAFFIC CONTROL

SCALE PLAN: 1" = 40'
 DRAWING No. 2017004-126

SHEET No. 126 OF 136



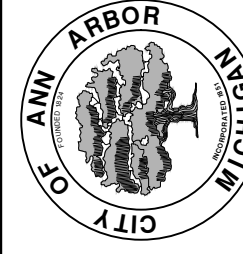
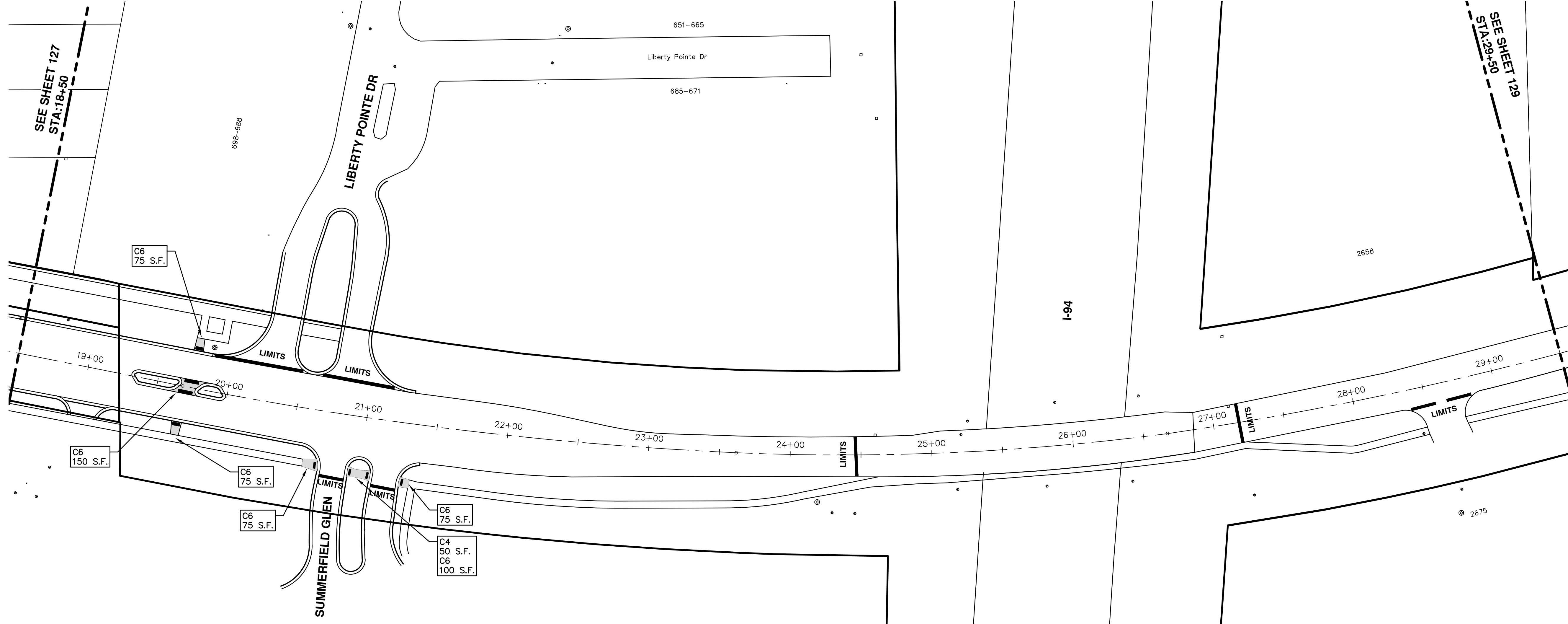
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 WEST LIBERTY STREET
 STA. 10+00 - STA. 18+50



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00	BID SET	03-08-17	AG.GS.RG	DAD





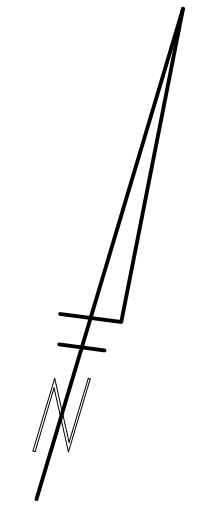
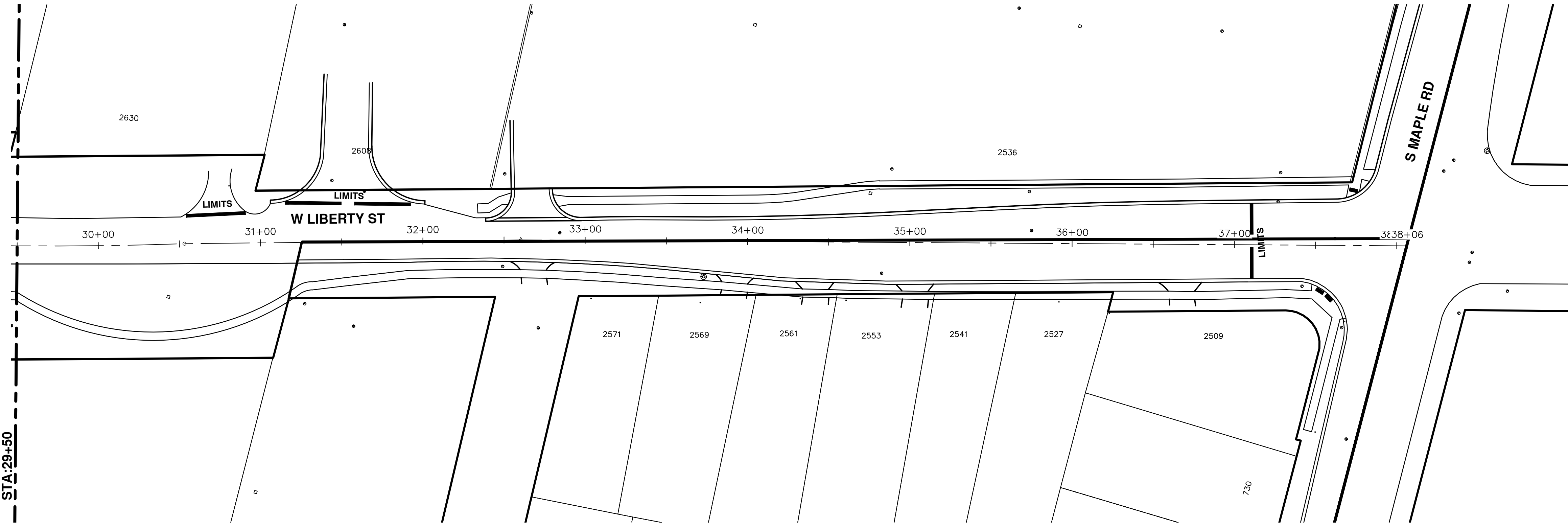
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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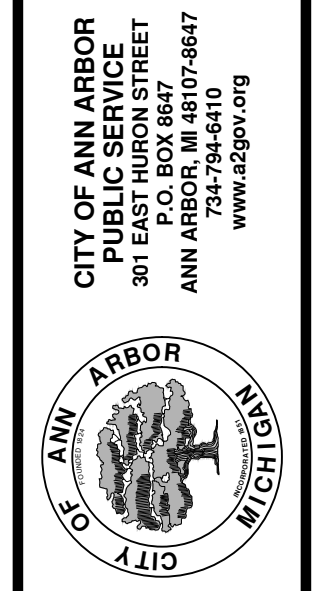


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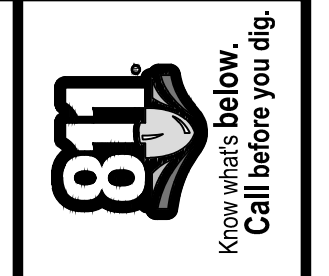
SEE SHEET 128
 STA. 29+50



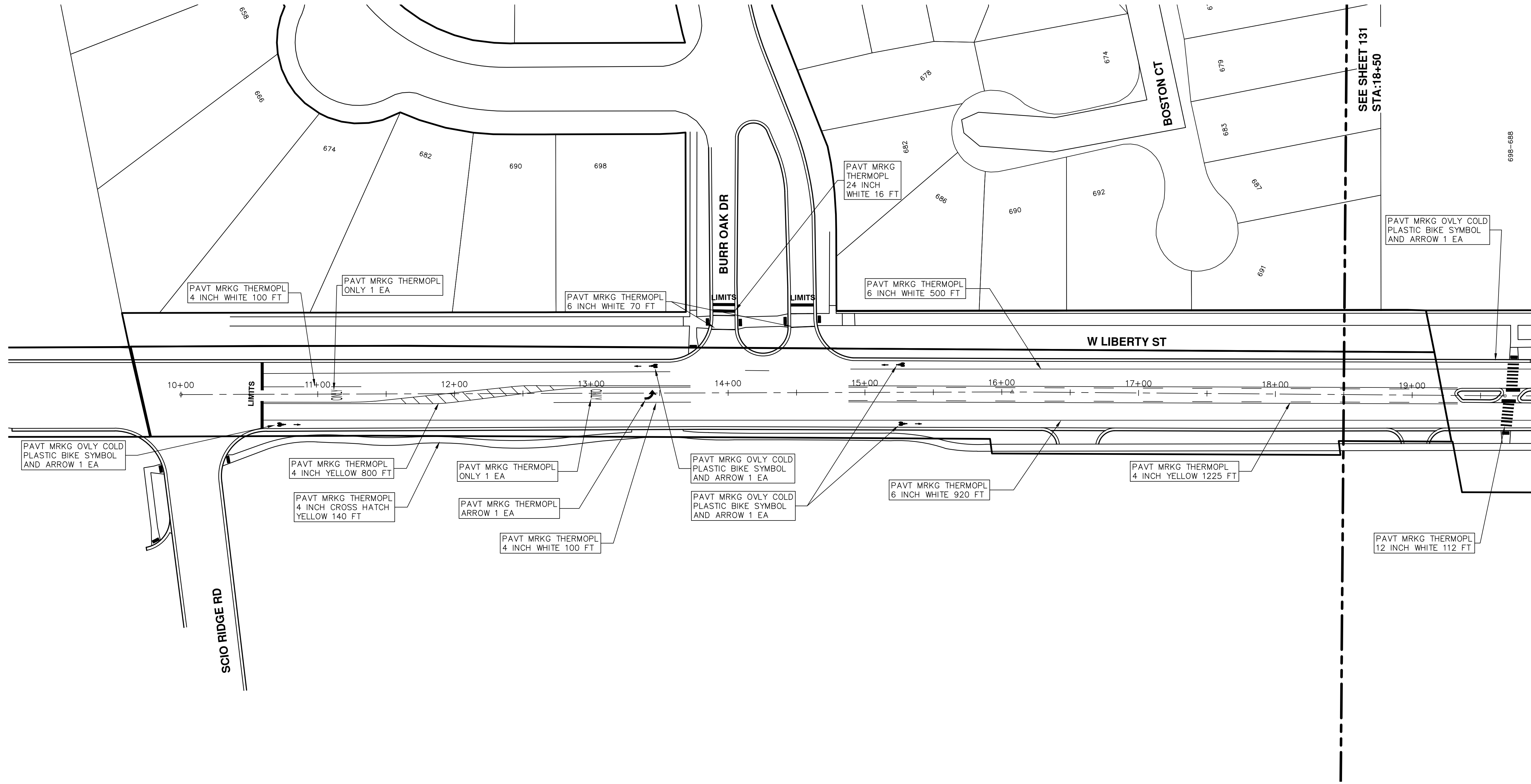
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=80'
ANNUAL STREET RESURFACING - 2017
 WEST LIBERTY STREET
 STA. 29+50 - STA. 38+06
 DRAWING No. 2017004-129



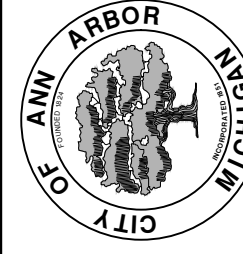
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD



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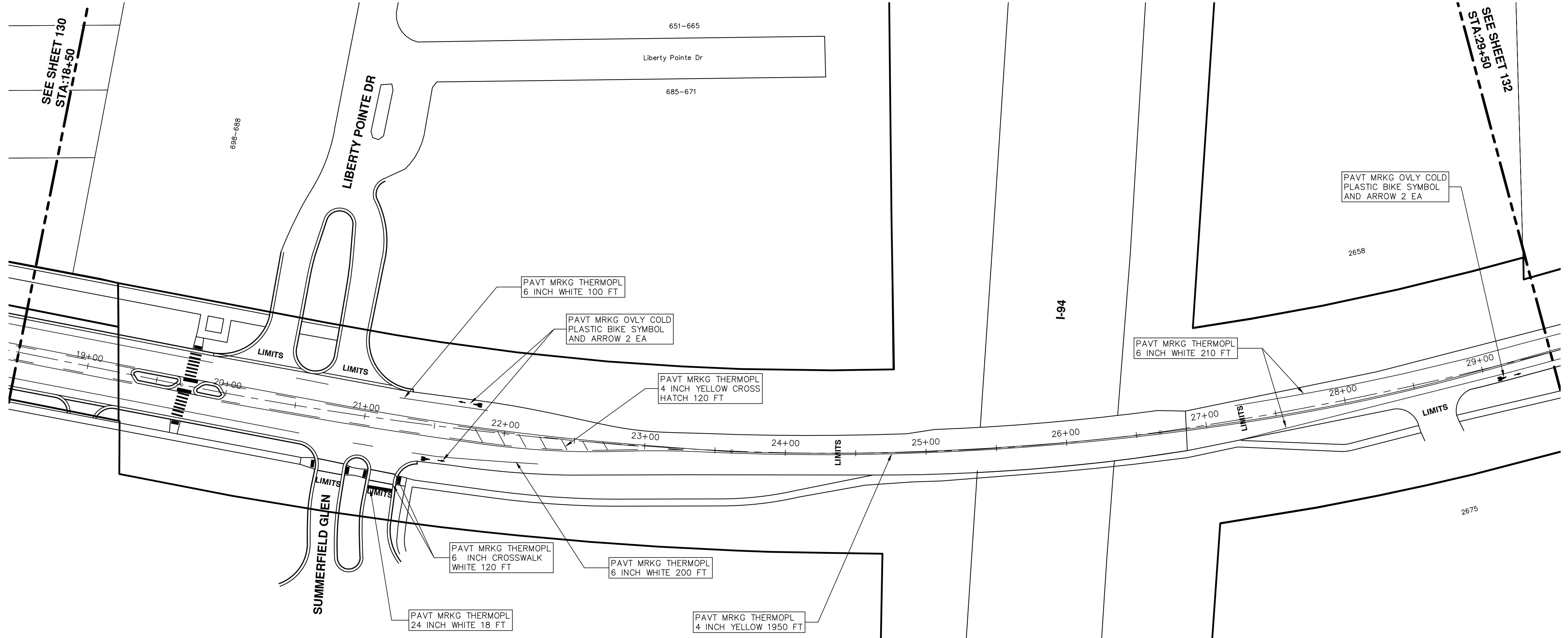


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S UNIVERSITY AVENUE
PAVEMENT MARKINGS

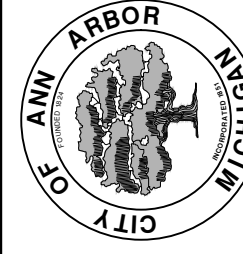
SCALE PLAN: 1"=80'
DRAWING No.: 2017004-130

SHEET No. 130 OF 136

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	03-08-17	AG.S.R.G.	DAD



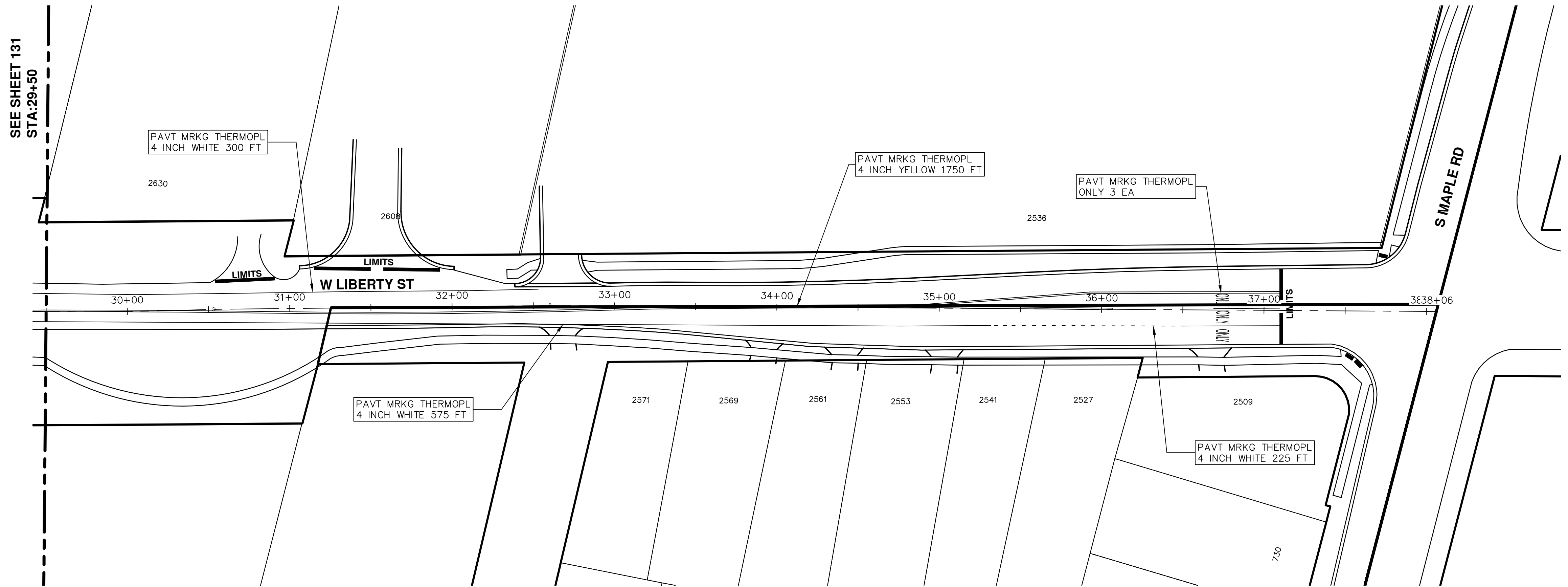
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ANNUAL STREET RESURFACING - 2017
WEST LIBERTY STREET
PAVEMENT MARKINGS

SCALE PLAN: 1"=80'
DRAWING No. 2017004-131

REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	03-24-17	AG.GS.RG	DAD	
00	03-08-17	AG.GS.RG	DAD	



SEE SHEET 131
STA:29+50

W LIBERTY ST

S MAPLE RD

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 WEST LIBERTY STREET
 PAVEMENT MARKINGS

SCALE PLAN: 1"=80'
 DRAWING No. 2017004-132

CITY OF ANN ARBOR
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG.GS.RG	DAD
00	BID SET	03-08-17	AG.GS.RG	DAD





CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: W. STADIUM BLVD

ITB No. 4477 FILE No. 2017-004



S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - W.Stadium Blvd.dwg Dwg Created: 21-Dec-16 - a2 standard bw.stb - Plot Date: 27-Mar-17

QUANTITIES			
Item Code	Item Description	Units	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	35.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	50.000
2057011	_Grading, Sidewalk	Syd	9.000
2057011	_Grading, Sidewalk Ramp	Syd	42.000
2057021	_Subgrade Undercutting, Type IIA	Cyd	113.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	3.000
5010003	Cold Milling HMA Surface	Ton	780.000
5010005	HMA Surface, Rem	Syd	8.000
5010057	HMA, 5E3	Ton	740.000
5010061	HMA, Approach	Ton	46.000
5017031	_HMA, Wedging, 36A	Ton	8.000
5017050	_HMA Surface, Around Structure Cover, Rem	Ea	5.000
6027021	_Flowable Fill	Cyd	1.298
8027001	_Curb and Gutter, Conc	Ft	35.000
8037001	_Detectable Warning Surface, Modified	Ft	15.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	375.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	75.000
8110520	Pav Mrg, Wet Retrflec, Thermopl, 4 inch, White	Ft	1,196.000
8110524	Pav Mrg, Wet Retrflec, Thermopl, 4 inch, Yellow	Ft	2,684.000
8110521	Pav Mrg, Wet Retrflec, Thermopl, 6 inch, White	Ft	120.000
8117001	_Pav Mrg, Wet Retrflec, Thermopl, 12 inch, Crosswalk	Ft	220.000
8117050	_Pav Mrg, Wet Retrflec, Thermopl, Lt Turn Arrow Sym	Ea	4.000
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	70.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	70.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	4.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	231.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	231.000
8167011	_Slope Restoration	Syd	13.000

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

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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total Area
15.0	D3-1	Street Name Sign	4.000	60.000
2.0	W4-2(R)	Right Lane Ends Sign	9.000	18.000
2.0	W4-2(L)	Left Lane Ends Sign	9.000	18.000
15.0	W20-1	Road Work Ahead Sign	9.000	135.000
TOTAL			9.000	231.000

CONSTRUCTION METHOD AND SEQUENCING

WORK ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AS DIRECTED BY THE ENGINEER, AND UTILIZING PART WIDTH TWO (2) PHASE CONSTRUCTION. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER. COMPLETE ITEMS 12 THRU 14 UTILIZING THE M.O.T. PLAN CURRENTLY IN PLACE. LANE CLOSURES, AND FLAG CONTROL OPERATIONS AS DIRECTED BY THE ENGINEER.

PHASE I

- IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION.
- REMOVE 2 INCHES OF EXISTING HMA SURFACE BY COLDMILLING.
- PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (MAJOR STREETS).

PHASE II

- REPEAT ITEMS 1 THRU 6 IN THE ORDER SHOWN SHOWN ABOVE.
- REMOVE 2 INCHES OF EXISTING HMA SURFACE BY COLDMILLING.
- PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (MAJOR STREETS).
- CLEAN PAVEMENT AND PLACE HMA APPROACHES AS REQUIRED.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
- 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 THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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



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

ANNUAL STREET RESURFACING - 2017

W. STADIUM BLVD

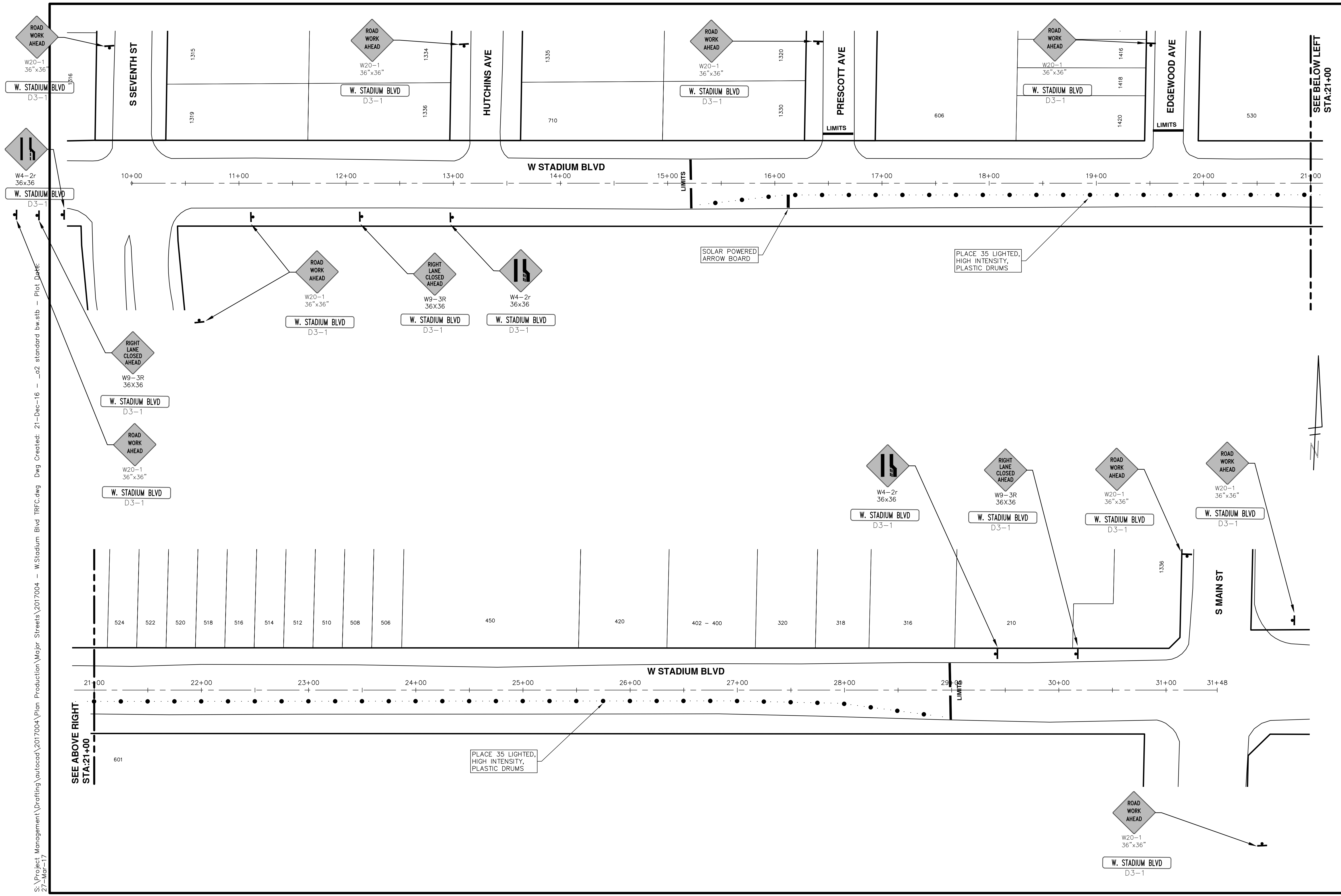
DRAWING No.

2017004-133

SHEET No.

133 OF 136

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 W. STADIUM BLVD
 TRAFFIC CONTROL

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

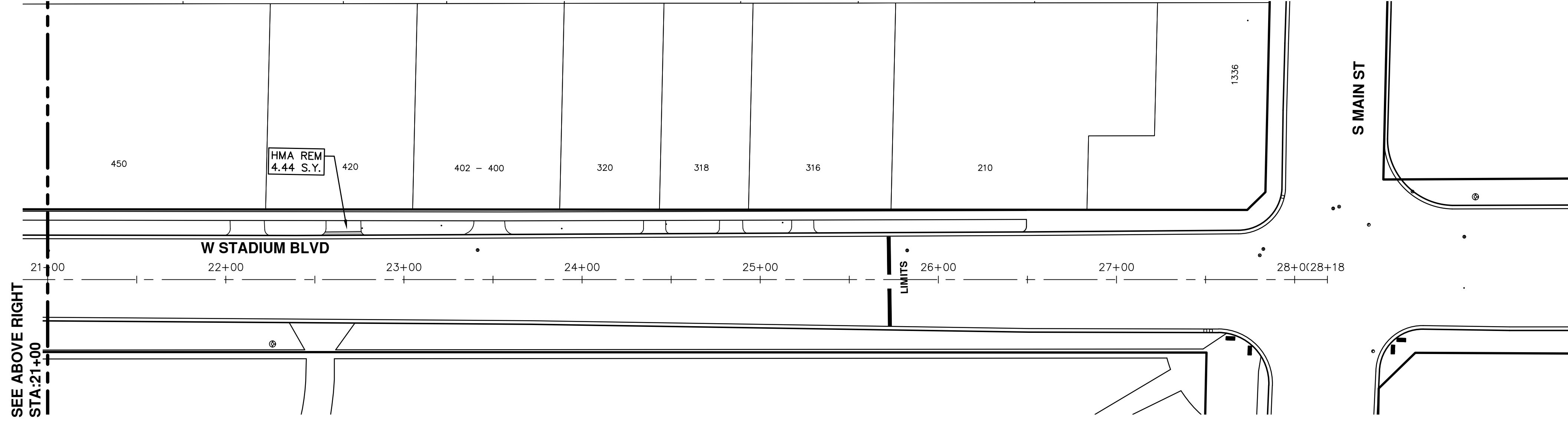
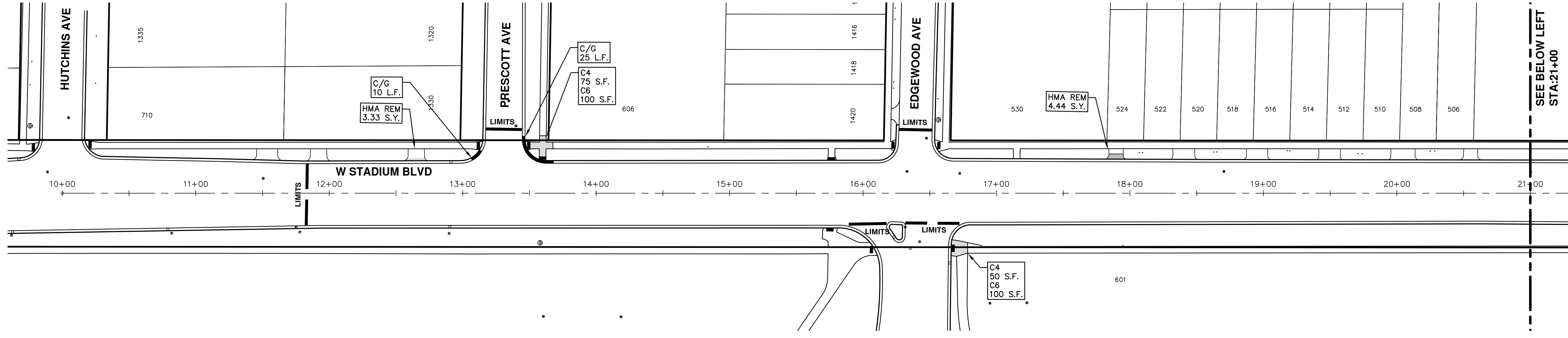
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00	03-08-17	AG.GSRG	DAD	BID SET


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 301 EAST HURON STREET
 ANN ARBOR, MI 48106-6647
 ANN ARBOR: 734-794-4410
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SCALE PLAN: 1" = 40'
 DRAWING No. 2017004-134

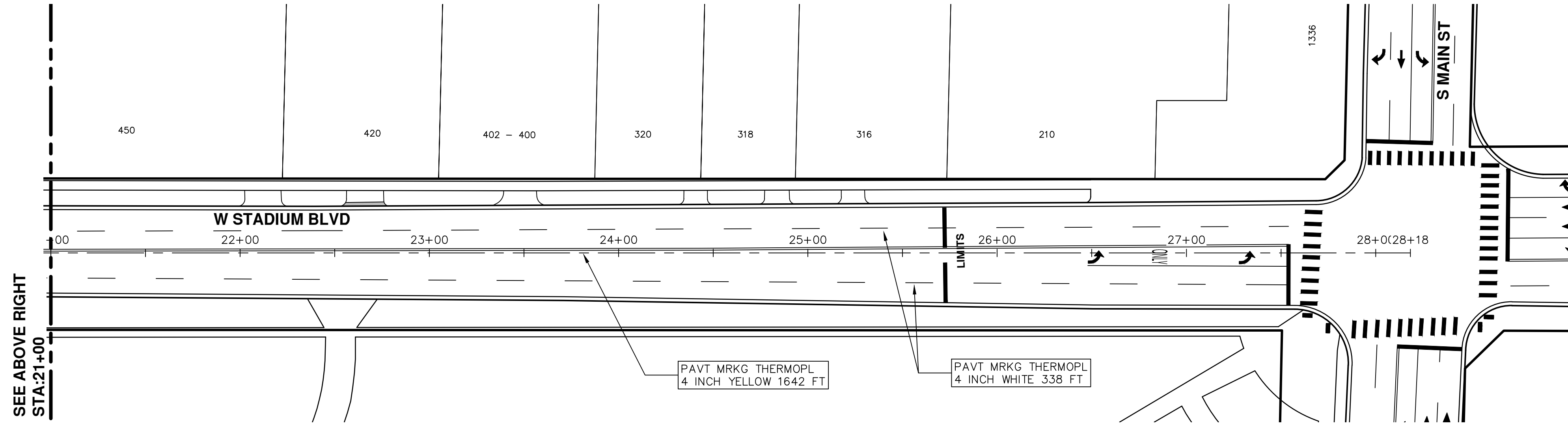
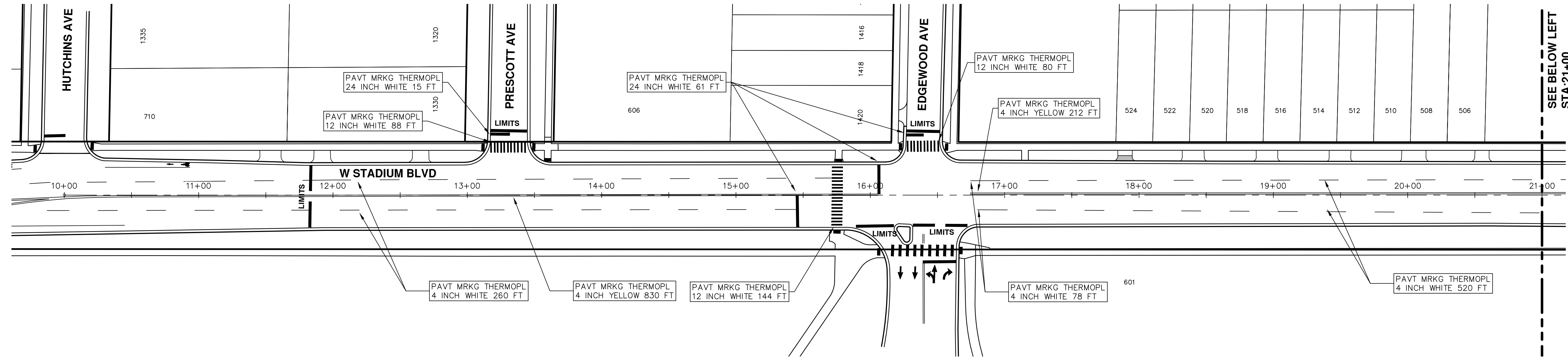
SHEET No. 134 OF 136

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - W Stadium Blvd.dwg Dwg Created: 21-Dec-16 - _a2_standard bw.stb - Plot Date: 27-Mar-17



	
<p>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2017 W STADIUM BLVD STA. 10+00 - STA. 28+18</p>	
<p>SCALE PLAN: 1"=80'</p>	<p>DRAWING No. 2017004-135</p>
<p>SHEET No. 135 OF 136</p>	
<p>CITY OF ANN ARBOR PUBLIC SERVICE 301 EAST HURON STREET ANN ARBOR, MI 48106-0667 www.a2gov.org</p>	
<p>01 ADDENDUM #1</p>	<p>03-24-17 AG.GS.RG DAD</p>
<p>00 BID SET</p>	<p>03-08-17 AG.GS.RG DAD</p>
<p>REV.</p>	<p>DATE DRAWN CHECKED</p>
<p>DESCRIPTION</p>	

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SEE BELOW LEFT
STA: 21+00

SEE ABOVE RIGHT
STA: 21+00



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ANNUAL STREET RESURFACING - 2017
W. STADIUM BLVD
PAVEMENT MARKINGS

SCALE PLAN: 1"=80'
DRAWING No. 2017004-136

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM #1	03-24-17	AG,CS,FG	DAD
00	BID SET	03-08-17	AG,CS,FG	DAD