



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.

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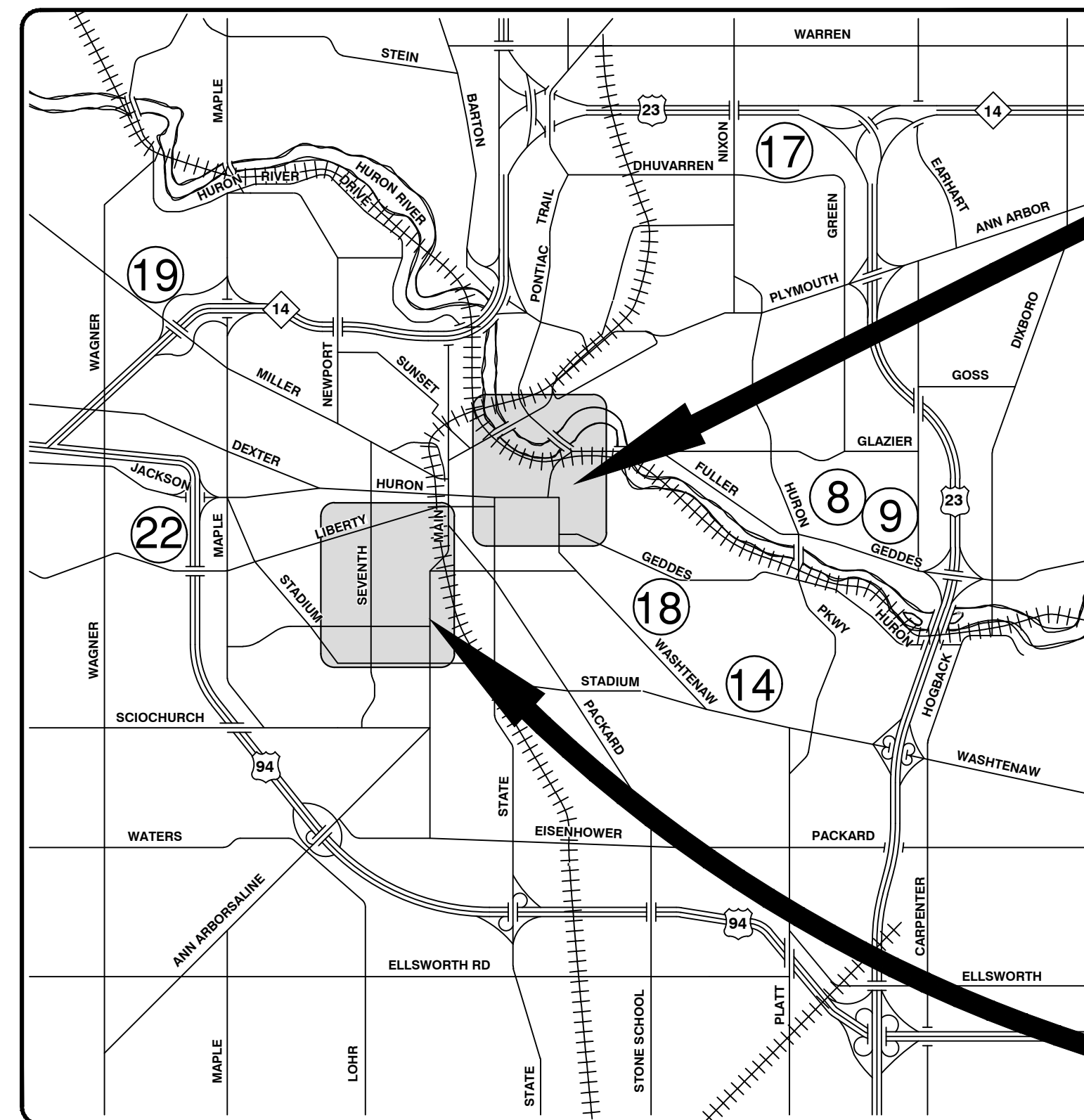
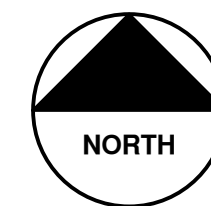


ANNUAL STREET RESURFACING - 2017

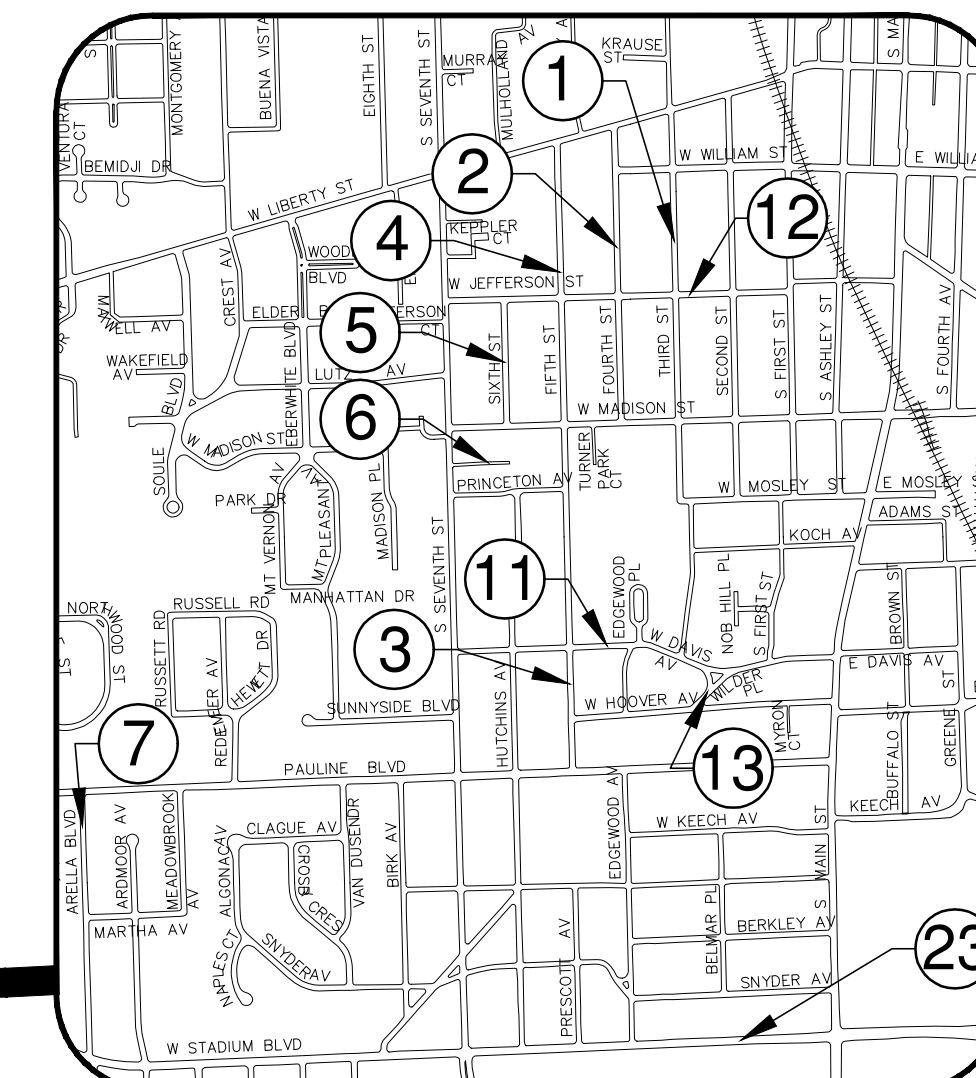
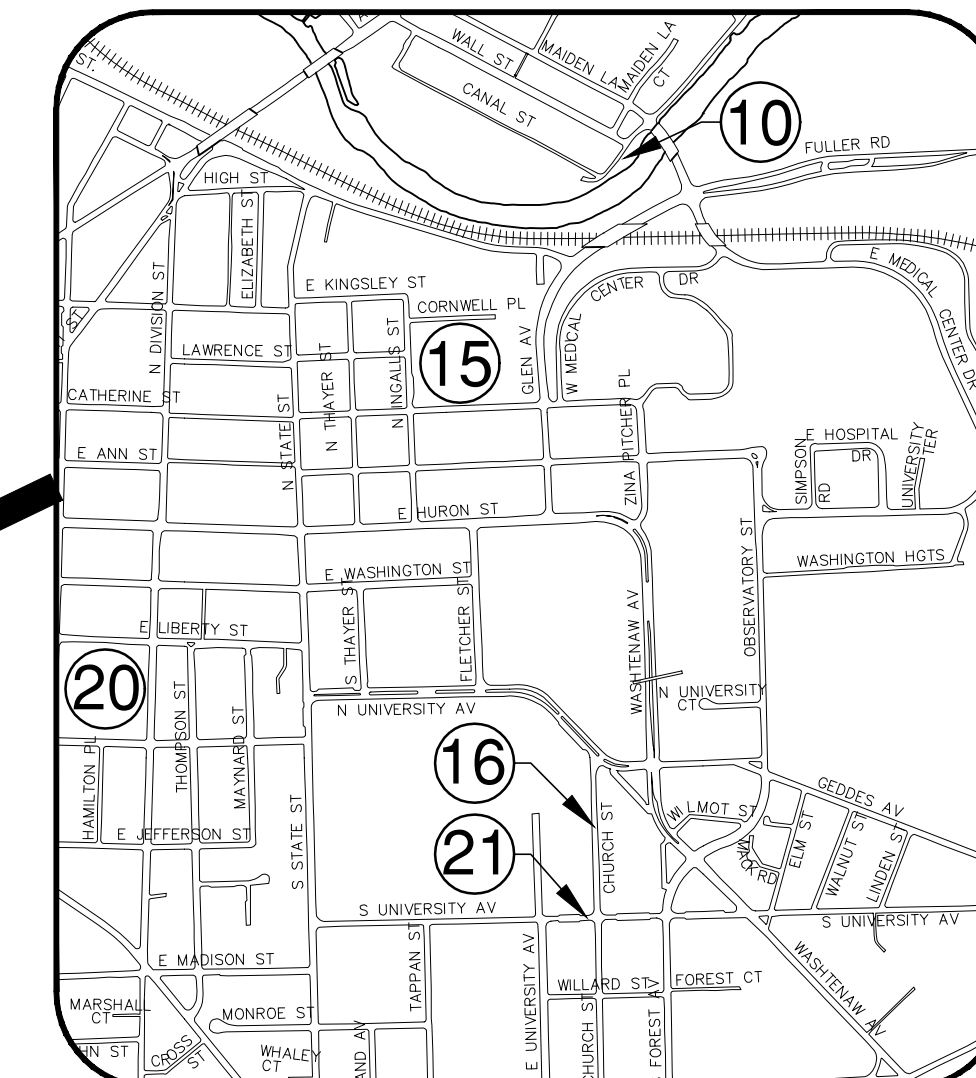
ITB No. 4477 FILE No. 2017004

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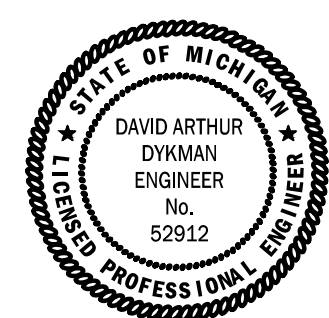
VICINITY MAP



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

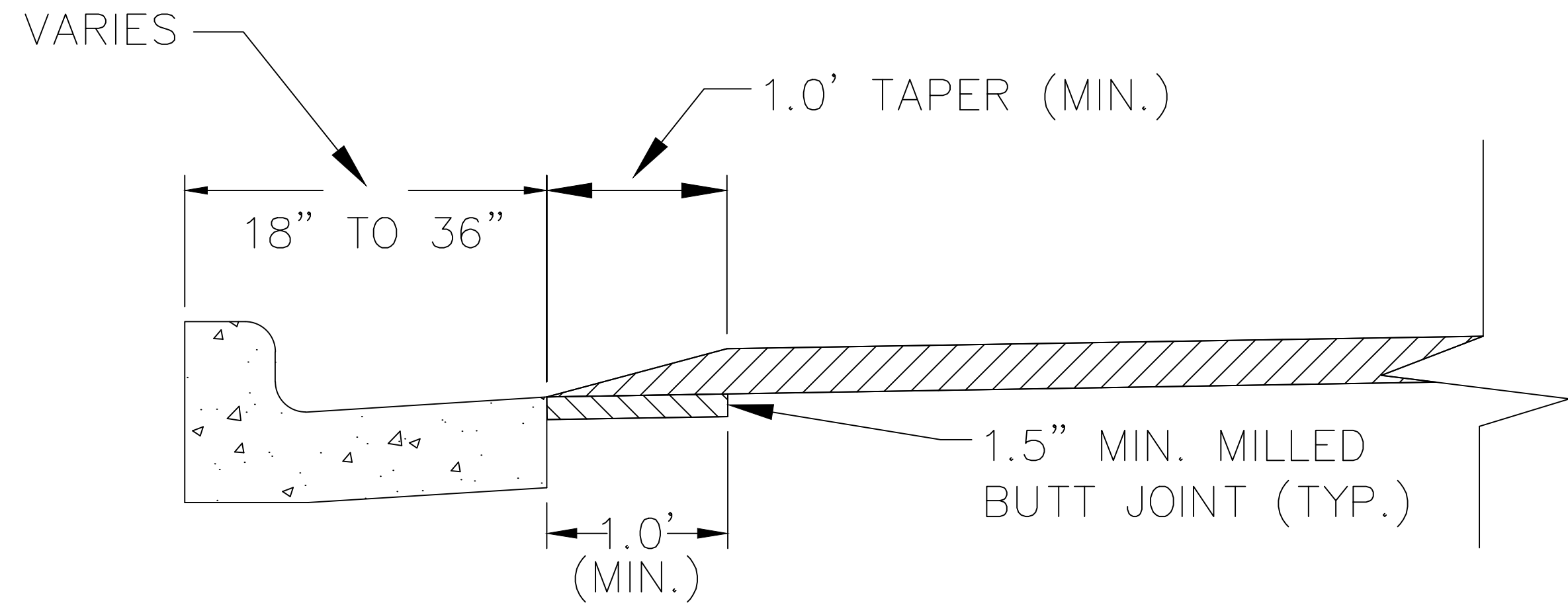
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

PROJECT DESCRIPTION
MAJOR AND LOCAL STREET RESURFACING

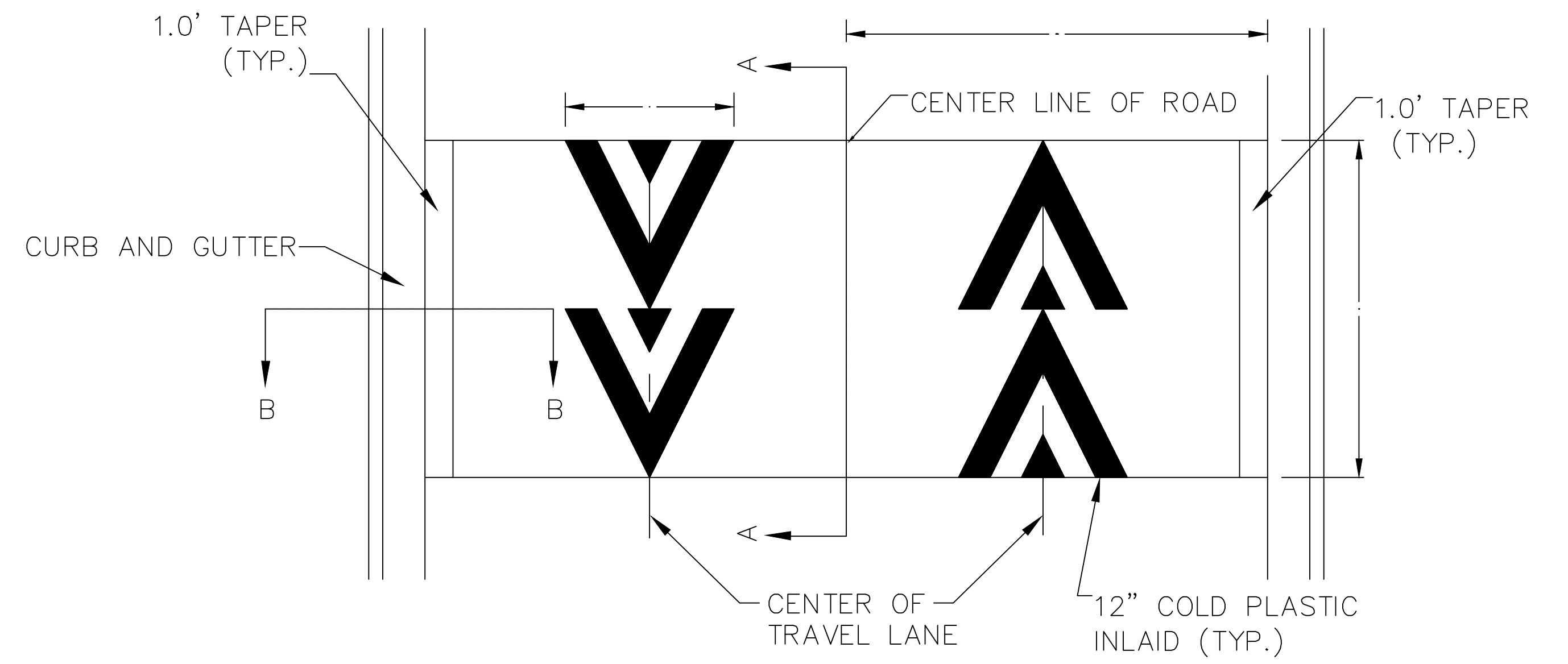
SHEET No.
1 OF 136

DRAWING No.
2017004 - 1

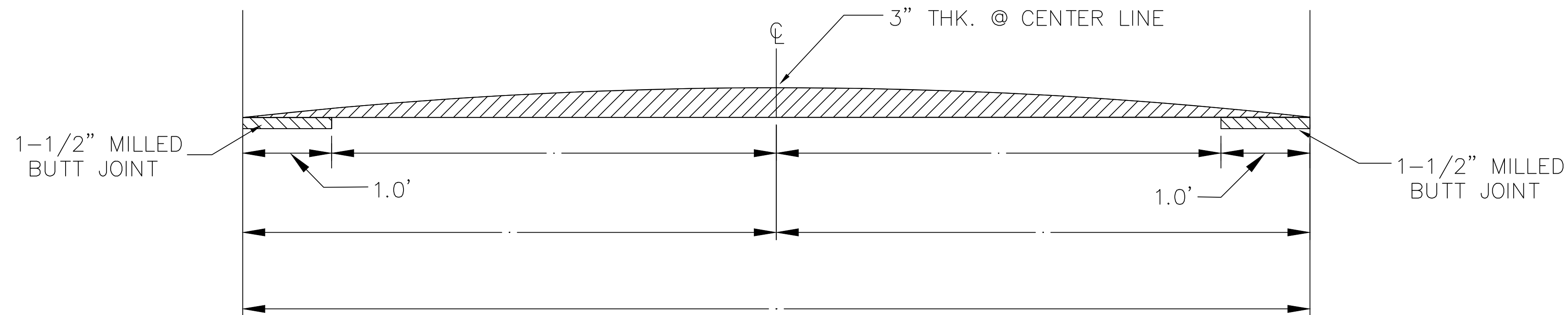
ANNUAL STREET RESURFACING - 2017 - ITB No. 4477 - 2017004



SPEED HUMP CROSS SECTION
SECTION B-B



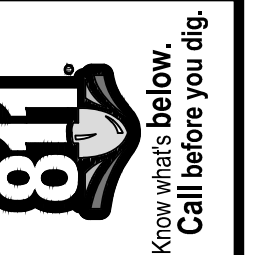
PAVEMENT MARKING DETAIL



SPEED HUMP CROSS SECTION
SECTION A-A

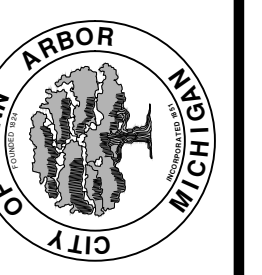
GENERAL NOTES

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.



00	BID SET	03-08-2017	AG,CS,RG	DAD	CHECKED
	REV.	DATE	DRAWN		
	DESCRIPTION				

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

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

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 REQUIRED.
- 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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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

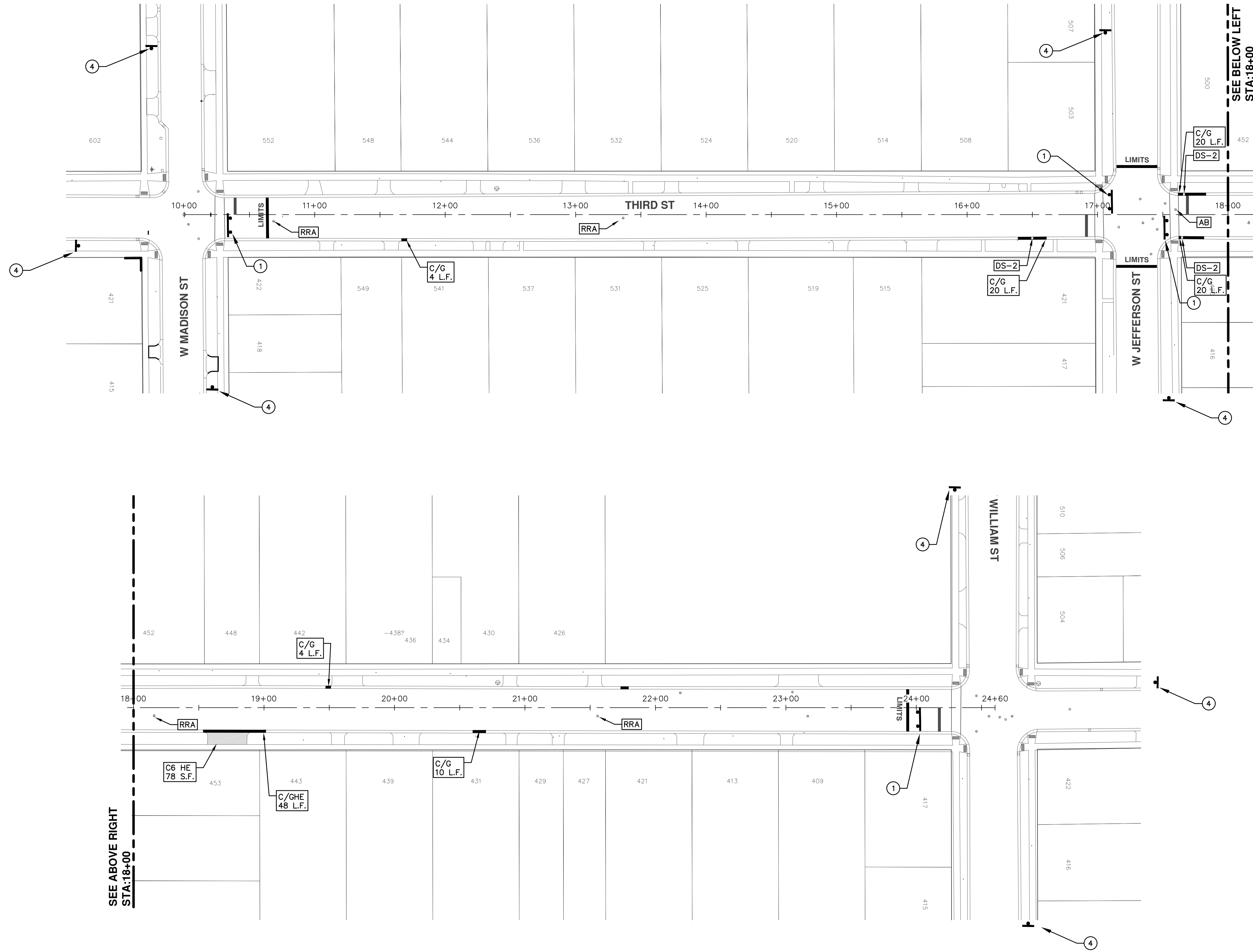
QUANTITIES			
Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	15.000
2030015	Sewer, Rem, Less than 24 inch	Ft	0.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	0.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	0.000
2057011	Grading, Driveway Approach	Syd	0.000
2057011	Grading, Sidewalk	Syd	0.000
2057011	Grading, Sidewalk Ramp	Syd	0.000
2057011	Machine Grading, Special	Syd	#VALUE!
2057021	Subgrade Undercutting, Type IIA	Cyd	#VALUE!
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	0.000
4030200	Dr Structure, 24 inch dia	Ea	0.000
4037050	Dr Structure Cover, Type B, Modified	Ea	0.000
4037050	Dr Structure Cover, Type K, Modified	Ea	0.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	0.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	0.000
5010003	Cold Milling HMA Surface	Ton	#VALUE!
5010005	HMA Surface, Rem	Syd	18.000
5010703	HMA, LVSP	Ton	0.000
6027021	Flowable Fill	Cyd	0.000
6030005	Cement	Ton	0.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	0.000
8027001	Curb and Gutter, Conc	Ft	112.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	0.000
8037001	Detectable Warning Surface, Modified	Ft	0.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	0.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	0.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	0.000
8110197	Pav Mrkg, Thermopl, 6 inch, Crosswalk	Ft	140.000
8110218	Pav Mrkg, Thermopl, 24 inch, Stop Bar	Ft	32.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	0.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	0.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	0.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	0.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	0.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	0.000
8127050	No Parking Sign	Ea	25.000
8167011	Slope Restoration	Syd	120.000

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
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
4.0	D3-1	Street Name Sign	4.000	16.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
		TOTAL		64.500





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 THIRD ST	W20-3 36"x36" D3-1
④	ROAD WORK AHEAD THIRD ST	W20-1 36"x36" D3-1

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 NUMBER

① R11-4 60x30

② R11-2 60x30

③ W20-3 36"x36"
D3-1

④ W20-1 36"x36"
D3-1

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.GS.RG	DAD



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: 4TH STREET

ITB No. 4477 FILE No. 2017-004

CONSTRUCTION METHOD AND SEQUENCING

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- GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED.
- 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.
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QUANTITIES			
Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	25.000
2030015	Sewer, Rem, Less than 24 inch	Ft	0.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	0.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	0.000
2057011	Grading, Driveway Approach	Syd	0.000
2057011	Grading, Sidewalk	Syd	0.000
2057011	Grading, Sidewalk Ramp	Syd	0.000
2057011	Machine Grading, Special	Syd	#VALUE!
2057021	Subgrade Undercutting, Type IIA	Cyd	#VALUE!
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	0.000
4030200	Dr Structure, 24 inch dia	Ea	0.000
4037050	Dr Structure Cover, Type B, Modified	Ea	0.000
4037050	Dr Structure Cover, Type K, Modified	Ea	0.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	0.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	0.000
5010003	Cold Milling HMA Surface	Ton	#VALUE!
5010005	HMA Surface, Rem	Syd	18.000
5010703	HMA, LVSP	Ton	0.000
6027021	Flowable Fill	Cyd	0.000
6030005	Cement	Ton	0.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	0.000
8027001	Curb and Gutter, Conc	Ft	112.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	0.000
8037001	Detectable Warning Surface, Modified	Ft	0.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	0.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	0.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	0.000
8110197	Par Mrg, Thermopl, 6 inch, Crosswalk	Ft	140.000
8110218	Par Mrg, Thermopl, 24 inch, Stop Bar	Ft	32.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	0.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	0.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	0.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	0.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	0.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	0.000
8127050	No Parking Sign	Ea	25.000
8167011	Slope Restoration	Syd	120.000

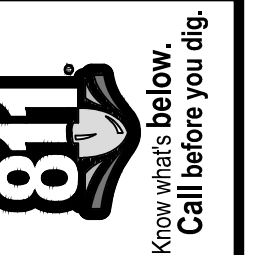
CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	•_Dr Structure, Adj, Case 1, Modified •_Dr Structure, Adj, Case 2, Modified •_Dr Structure, Temp Lowering, Modified
AB	•_Dr Structure, Temp Lowering, Modified •_Gate Box, Adj, Case 1 •_Gate Box, Adj, Case 2 •_Monument Box Adjust
ADST	•_Dr Structure, Adj, 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

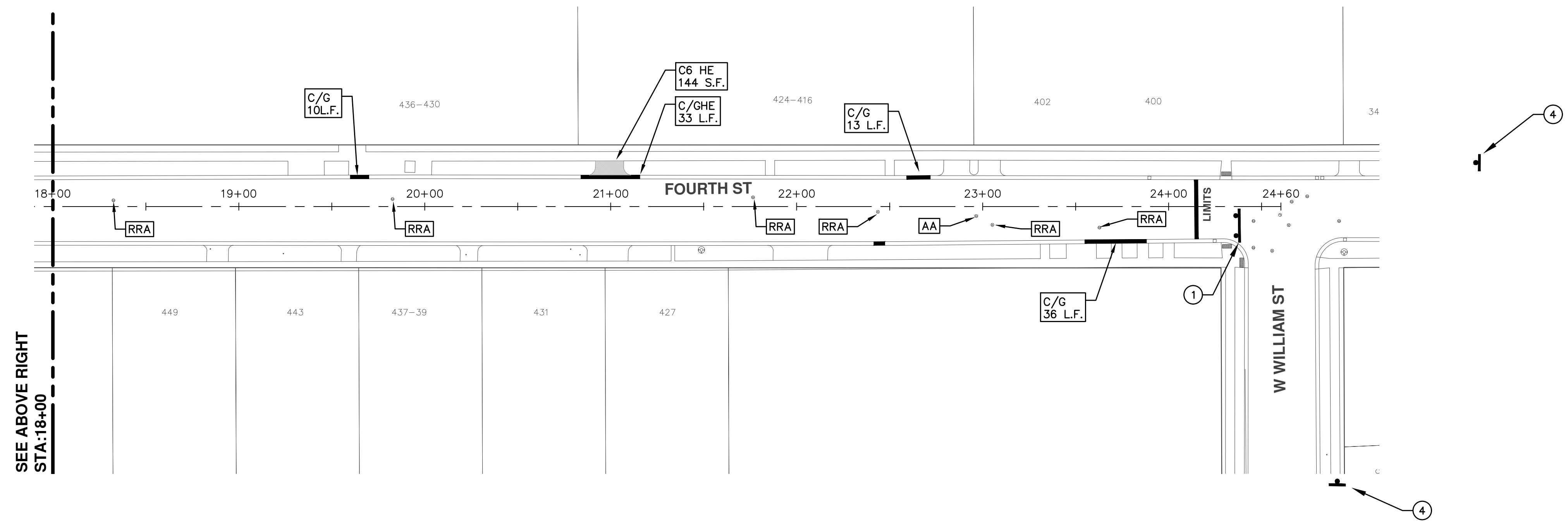
LEGEND	
SYMBOL	DESCRIPTION
⊕	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊕	MICHCON GAS CO. VALVE BOX/WELL
⊕	AMERITECH TELEPHONE VAULT
⊕	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
□	MONUMENT 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
4.0	D3-1	Street Name Sign	4.000	16.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
		TOTAL		64.500

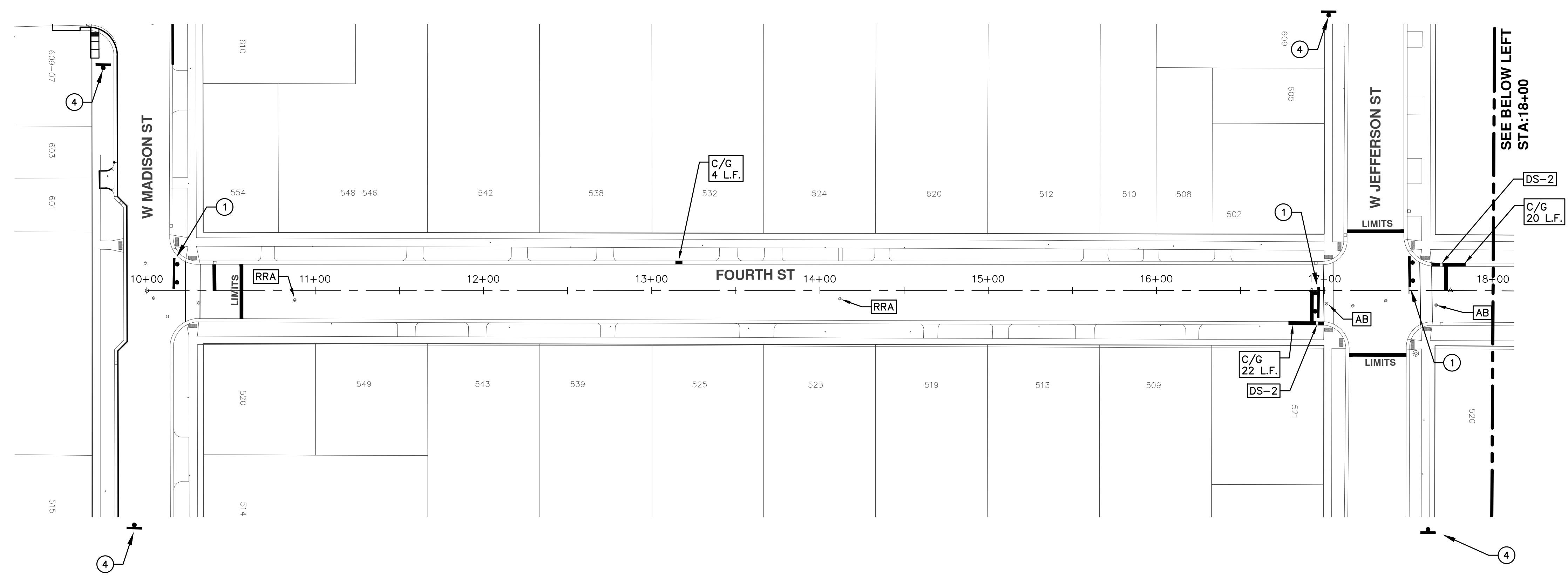


PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org





SEE ABOVE RIGHT
STA: 18+00



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

SCALE PLAN: 1"=80'
DRAWING No. 2017004-7

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

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

ANN ARBOR MICHIGAN

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.GSRG	DAD

SHEET No. 7 OF 136



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

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 REQUIRED.
- 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.

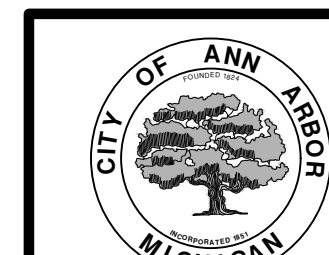
THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

QUANTITIES			
Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	5.000
2030015	Sewer, Rem, Less than 24 inch	Ft	50.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	855.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	199.000
2057011	Grading, Driveway Approach	Syd	20.000
2057011	Grading, Sidewalk	Syd	52.000
2057011	Grading, Sidewalk Ramp	Syd	114.000
2057011	Machine Grading, Special	Syd	5,568.000
2057021	Subgrade Undercutting, Type IIA	Cyd	548.000
2087050	Erosion Control, Inlet Filter	Ea	11.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	50.000
4030200	Dr Structure, 24 inch dia	Ea	5.000
4037050	Dr Structure Cover, Type D, Modified	Ea	1.000
4037050	Dr Structure Cover, Type K, Modified	Ea	9.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	13.000
4037050	Dr Structure, Point	Ea	1.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,259.000
5010005	HMA Surface, Rem	Syd	97.000
5010061	HMA, Approach	Ton	22.000
5010703	HMA, LVSP	Ton	1,237.000
6027021	Flowable Fill	Cyd	31.667
6030005	Cement	Ton	2.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	20.000
8027001	Curb and Gutter, Conc	Ft	671.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	199.000
8037001	Detectable Warning Surface, Modified	Ft	30.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1,026.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	445.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	19.900
8110197	Pav Mrgk, Thermopl, 6 inch, Crosswalk	Ft	170.000
8110218	Pav Mrgk, Thermopl, 24 inch, Stop Bar	Ft	20.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	40.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	40.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	64.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	64.500
8127050	No Parking Sign	Ea	56.000
8167011	Slope Restoration	Syd	314.000
8230431	Gate Box, Adj, Case 1	Ea	3.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
O6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk Ramp • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• 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 • 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
4.0	D3-1	Street Name Sign	4.000	16.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
		TOTAL		64.500

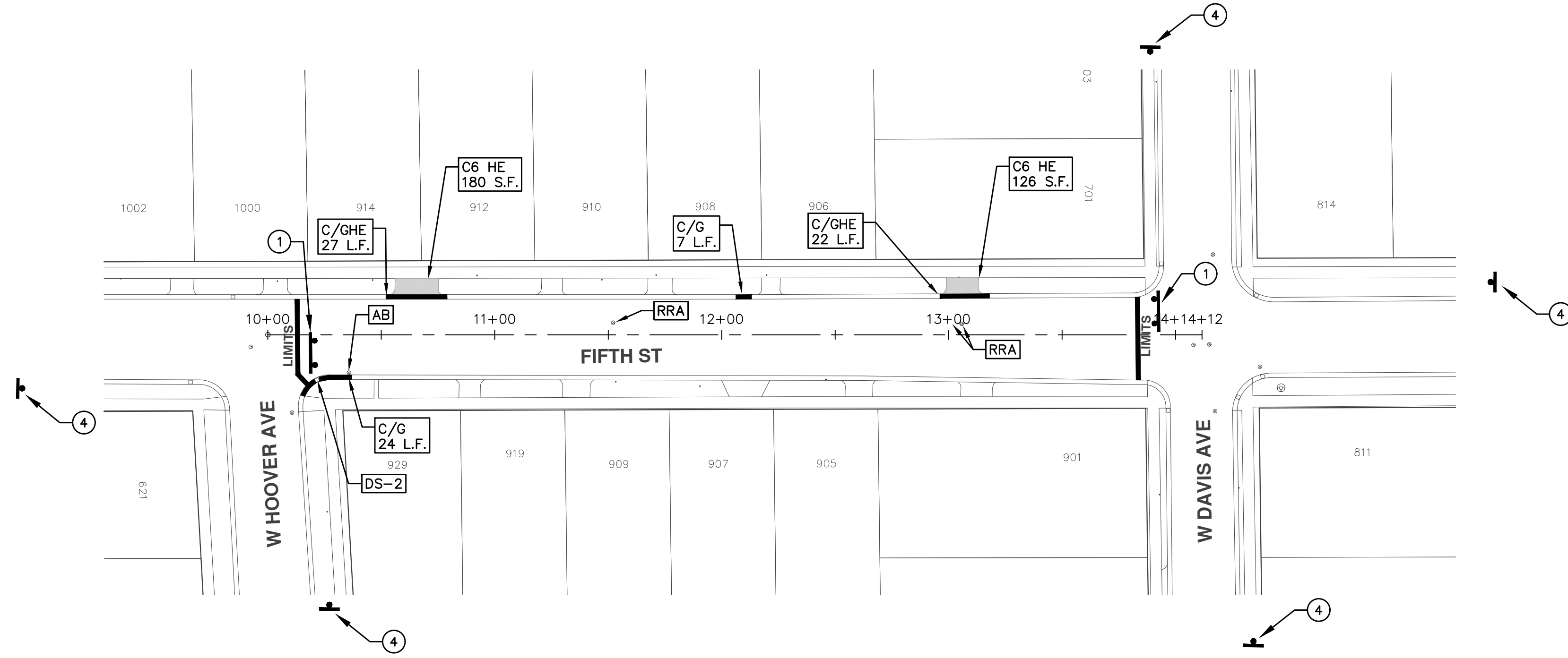


PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

S:\Project Management\Drafting\autocad\2017004\Plan Production\2017004 - 5th Street South.dwg Dwg Created: 7-Nov-16 - a2 standard bw.stb - Plot Date: 8-Mar-17



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
5TH STREET - W HOOVER AVE TO W DAVIS AVE
DRAWING No. 2017004-9



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

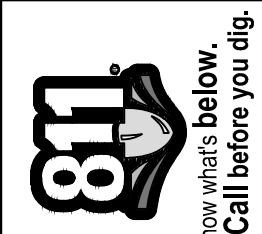
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=80'
ANNUAL STREET RESURFACING - 2017
 5TH STREET - W HOOVER AVE TO W DAVIS AVE
 STA. 10+00 - STA. 14+12

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.	BID SET	DESCRIPTION	DATE	AG.GSRG	DAD	CHECKED
00			03-08-2017			





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

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 REQUIRED.
- 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	5.000
2030015	Sewer, Rem, Less than 24 inch	Ft	50.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	855.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	199.000
2057011	Grading, Driveway Approach	Syd	20.000
2057011	Grading, Sidewalk	Syd	52.000
2057011	Grading, Sidewalk Ramp	Syd	114.000
2057011	Machine Grading, Special	Syd	5,568.000
2057021	Subgrade Undercutting, Type IIA	Cyd	50.000
2087050	Erosion Control, Inlet Filter	Ea	11.000
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 D, Modified	Ea	1.000
4037050	Dr Structure Cover, Type K, Modified	Ea	9.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	13.000
4037050	Dr Structure, Point	Ea	1.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,259.000
5010005	HMA Surface, Rem	Syd	97.000
5010061	HMA, Approach	Ton	22.000
5010703	HMA, LVSP	Ton	1,237.000
6027021	Flowable Fill	Cyd	31.667
6030005	Cement	Ton	2.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	20.000
8027001	Curb and Gutter, Conc	Ft	671.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	199.000
8037001	Detectable Warning Surface, Modified	Ft	30.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1,026.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	445.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	19.900
8110197	Pav Mrg, Thermopl, 6 inch, Crosswalk	Ft	170.000
8110218	Pav Mrg, Thermopl, 24 inch, Stop Bar	Ft	20.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	40.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	40.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	64.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	64.500
8127050	No Parking Sign	Ea	56.000
8167011	Slope Restoration	Syd	314.000
8230431	Gate Box, Adj, Case 1	Ea	3.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • 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 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
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
4.0	D3-1	Street Name Sign	4.000	16.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
		TOTAL	64.500	



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

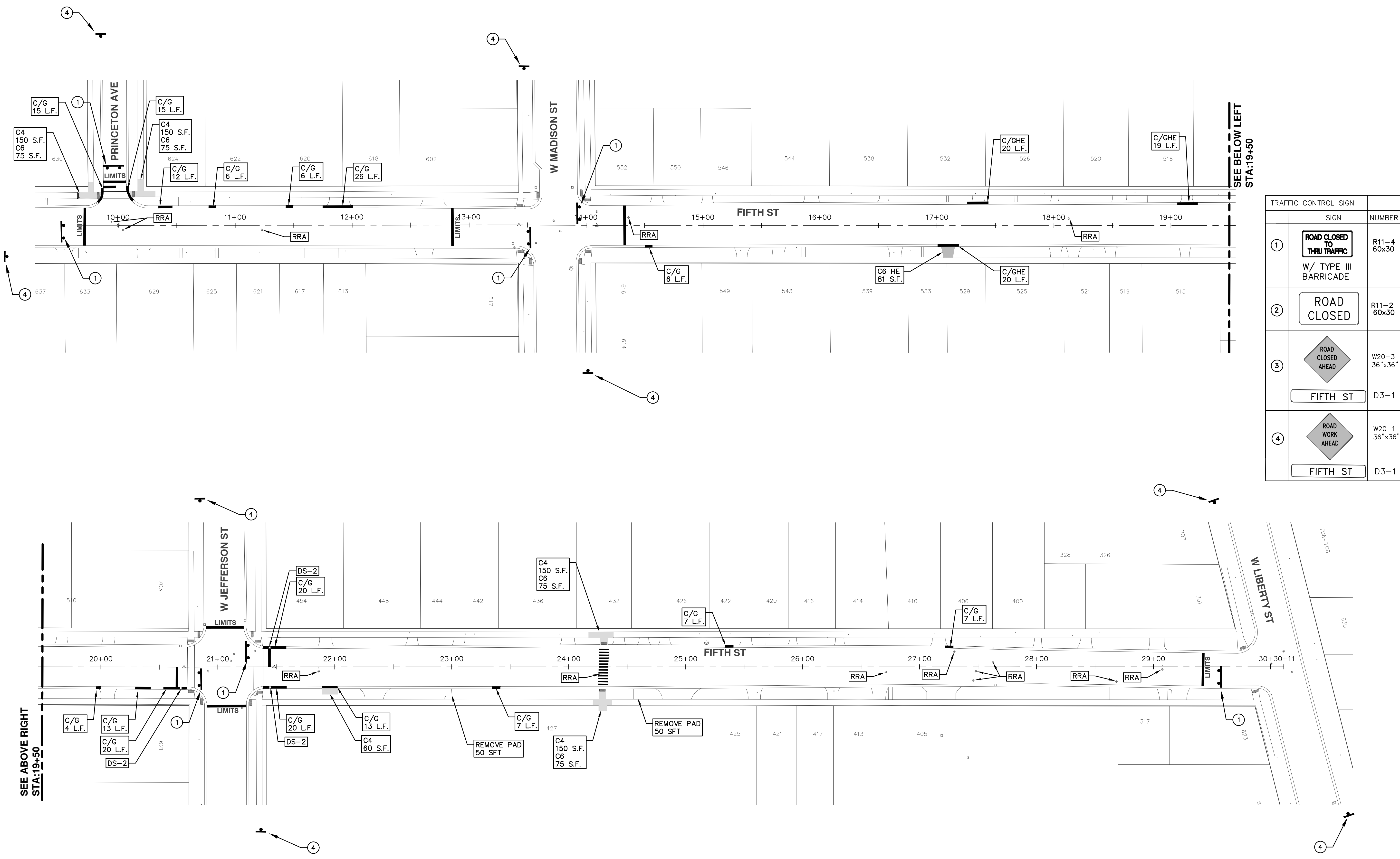
S:\Project Management\Drafting\autocad\2017004\Plan Production\2017004 - 5th Street North.dwg Dwg Created: 7-Nov-16 - _g2 standard bw.stb - Plot Date: 8-Mar-17



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
5TH STREET - PRINCETON ST TO W LIBERTY ST

SHEET No. 10 OF 136

S:\Project Management\Drafting\autocad\2017004\Plan Production\2017004 - 5th Street North.dwg Dwg Created: 7-Nov-16 - _a2 standard bw.stb - Plot Date: 8-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

11 OF 136

SHEET No. 2017004-11

DRAWING No. 148

SCALE PLAN: 1"=80'

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

REV.	DATE	DESCRIPTION
00	03-08-2017	BID SET
		DRAWN
		AG.CS.RG
		DAD
		CHECKED

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



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: 8-Mar-17

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	855.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	199.000
2057011	Grading, Driveway Approach	Syd	20.000
2057011	Grading, Sidewalk	Syd	52.000
2057011	Grading, Sidewalk Ramp	Syd	114.000
2057011	Machine Grading, Special	Syd	5,568.000
2057021	Subgrade Undercutting, Type IIA	Cyd	548.000
2087050	Erosion Control, Inlet Filter	Ea	11.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	50.000
4030200	Dr Structure, 24 inch dia	Ea	5.000
4037050	Dr Structure Cover, Type D, Modified	Ea	1.000
4037050	Dr Structure Cover, Type K, Modified	Ea	9.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	13.000
4037050	Dr Structure, Point	Ea	1.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,259.000
5010005	HMA Surface, Rem	Syd	97.000
5010061	HMA, Approach	Ton	22.000
5010703	HMA, LVSP	Ton	1,237.000
6027021	Flowable Fill	Cyd	31.667
6030005	Cement	Ton	2.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	20.000
8027001	Curb and Gutter, Conc	Ft	671.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	199.000
8037001	Detectable Warning Surface, Modified	Ft	30.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1,026.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	445.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	19.900
8110197	Pavt Mrlg, Thermopl, 6 inch, Crosswalk	Ft	170.000
8110218	Pavt Mrlg, Thermopl, 24 inch, Stop Bar	Ft	20.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	40.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	40.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	64.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	64.500
8127050	No Parking Sign	Ea	56.000
8167011	Slope Restoration	Syd	314.000
8230431	Gate Box, Adj, Case 1	Ea	3.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • 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
RRRA	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRRK	• 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
4.0	D3-1	Street Name Sign	4.000	16.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
		TOTAL		64.500

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 REQUIRED.
- 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

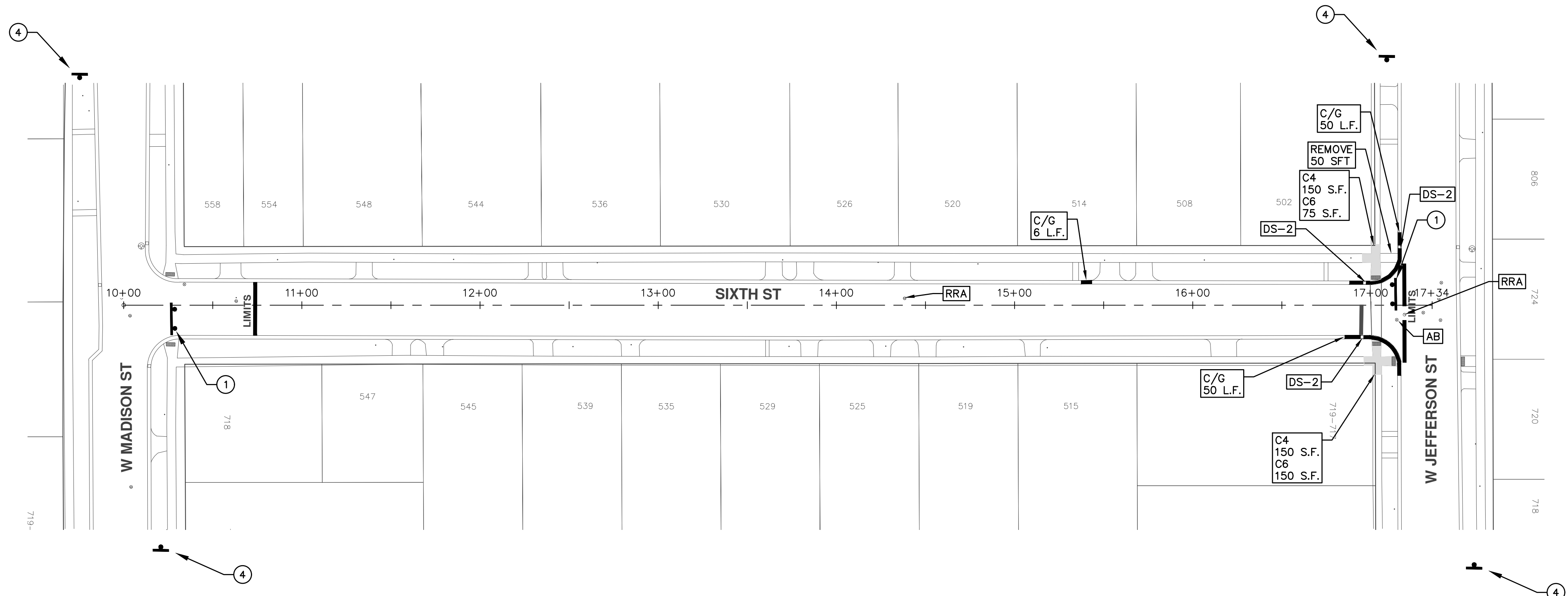
ANNUAL STREET RESURFACING - 2017

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



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 REQUIRED.
- 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.

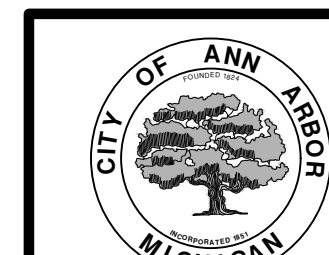
THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

QUANTITIES			
Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	5.000
2030015	Sewer, Rem, Less than 24 inch	Ft	50.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	855.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	199.000
2057011	Grading, Driveway Approach	Syd	20.000
2057011	Grading, Sidewalk	Syd	52.000
2057011	Grading, Sidewalk Ramp	Syd	114.000
2057011	Machine Grading, Special	Syd	5,588.000
2057021	Subgrade Undercutting, Type IIA	Cyd	548.000
2087050	Erosion Control, Inlet Filter	Ea	11.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	50.000
4030200	Dr Structure, 24 inch dia	Ea	5.000
4037050	Dr Structure Cover, Type D, Modified	Ea	1.000
4037050	Dr Structure Cover, Type K, Modified	Ea	9.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	13.000
4037050	Dr Structure, Point	Ea	1.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,259.000
5010005	HMA Surface, Rem	Syd	97.000
5010061	HMA, Approach	Ton	22.000
5010703	HMA, LVSP	Ton	1,237.000
6027021	Flowable Fill	Cyd	31.667
6030005	Cement	Ton	2.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	20.000
8027001	Curb and Gutter, Conc	Ft	671.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	199.000
8037001	Detectable Warning Surface, Modified	Ft	30.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1,026.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	445.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	19.900
8110197	Pav Mrg, Thermopl, 6 inch, Crosswalk	Ft	170.000
8110218	Pav Mrg, Thermopl, 24 inch, Stop Bar	Ft	20.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	40.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	40.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	64.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	64.500
8127050	No Parking Sign	Ea	56.000
8167011	Slope Restoration	Syd	314.000
8230431	Gate Box, Adj, Case 1	Ea	3.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk Ramp, Conc, 6 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• Grading, Driveway Approach • Driveway, Nonreinf Conc, 8 inch, Modified • Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc, 6 inch, Modified • Driveway, Nonreinf Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
CHE	• 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

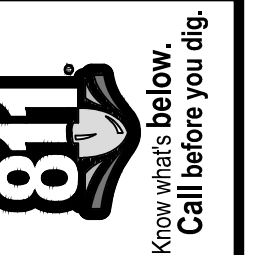
LEGEND	
SYMBOL	DESCRIPTION
⊕	EXISTING SANITARY SEWER MANHOLE
⊖	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
+Q+	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
Ⓢ	AMERITECH TELEPHONE VAULT
⊕	ELECTRIC MANHOLE
⊖	SOIL BORING
□	EXISTING STORM SEWER INLET
▣	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
4.0	D3-1	Street Name Sign	4.000	16.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
		TOTAL		64.500

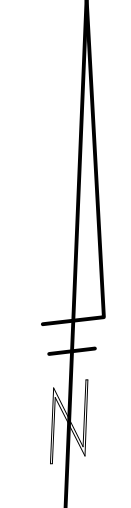
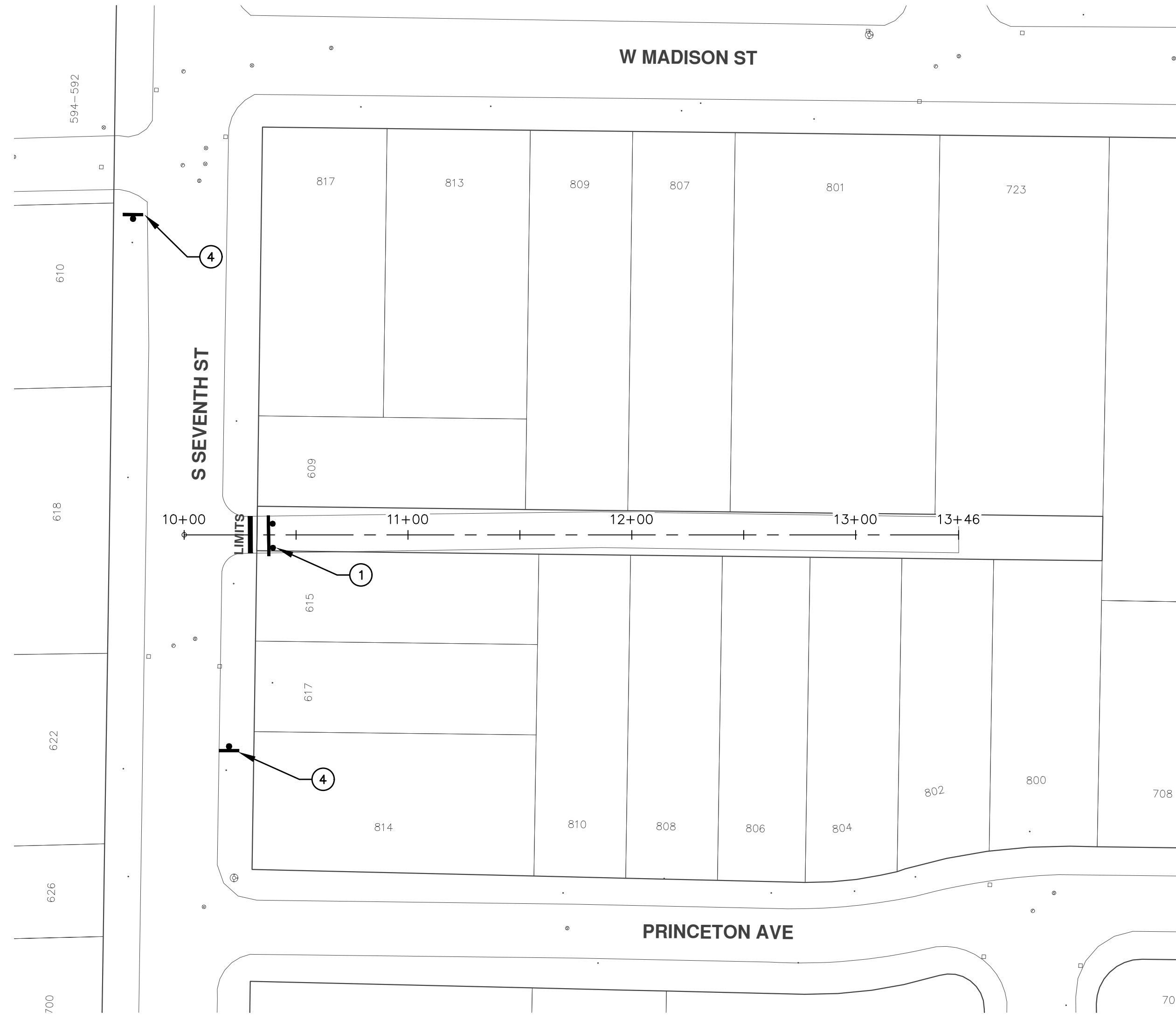


PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

S:\Project Management\Drafting\autocad\2017004 - Alley.dwg Dwg Created: 7-Nov-16 - o2 standard b.w.stb - Plot Date: 8-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		R11-4 60x30
②		R11-2 60x30
③		W20-3 36"x36"
		D3-1
④		W20-1 36"x36"
		D3-1



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: 8-Mar-17

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	855.000
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2057011	Grading, Driveway Approach	Syd	20.000
2057011	Grading, Sidewalk	Syd	52.000
2057011	Grading, Sidewalk Ramp	Syd	114.000
2057011	Machine Grading, Special	Syd	5,568.000
2057021	Subgrade Undercutting, Type IIA	Cyd	548.000
2087050	Erosion Control, Inlet Filter	Ea	11.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	50.000
4030200	Dr Structure, 24 inch dia	Ea	5.000
4037050	Dr Structure Cover, Type D, Modified	Ea	1.000
4037050	Dr Structure Cover, Type K, Modified	Ea	9.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	13.000
4037050	Dr Structure, Point	Ea	1.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,259.000
5010005	HMA Surface, Rem	Syd	97.000
5010061	HMA, Approach	Ton	22.000
5010703	HMA, LVSP	Ton	1,237.000
6027021	Flowable Fill	Cyd	31.667
6030005	Cement	Ton	2.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	20.000
8027001	Curb and Gutter, Conc	Ft	671.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	199.000
8037001	Detectable Warning Surface, Modified	Ft	30.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1,026.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	445.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	19.900
8110197	Pav Mrg, Thermopl, 6 inch, Crosswalk	Ft	170.000
8110218	Pav Mrg, Thermopl, 24 inch, Stop Bar	Ft	20.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	40.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	40.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	64.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	64.500
8127050	No Parking Sign	Ea	56.000
8167011	Slope Restoration	Syd	314.000
8230431	Gate Box, Adj, Case 1	Ea	3.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • 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 (sqft)	Total
4.0	D3-1	Street Name Sign	4.000	16.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
		TOTAL		64.500

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 REQUIRED.
- 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

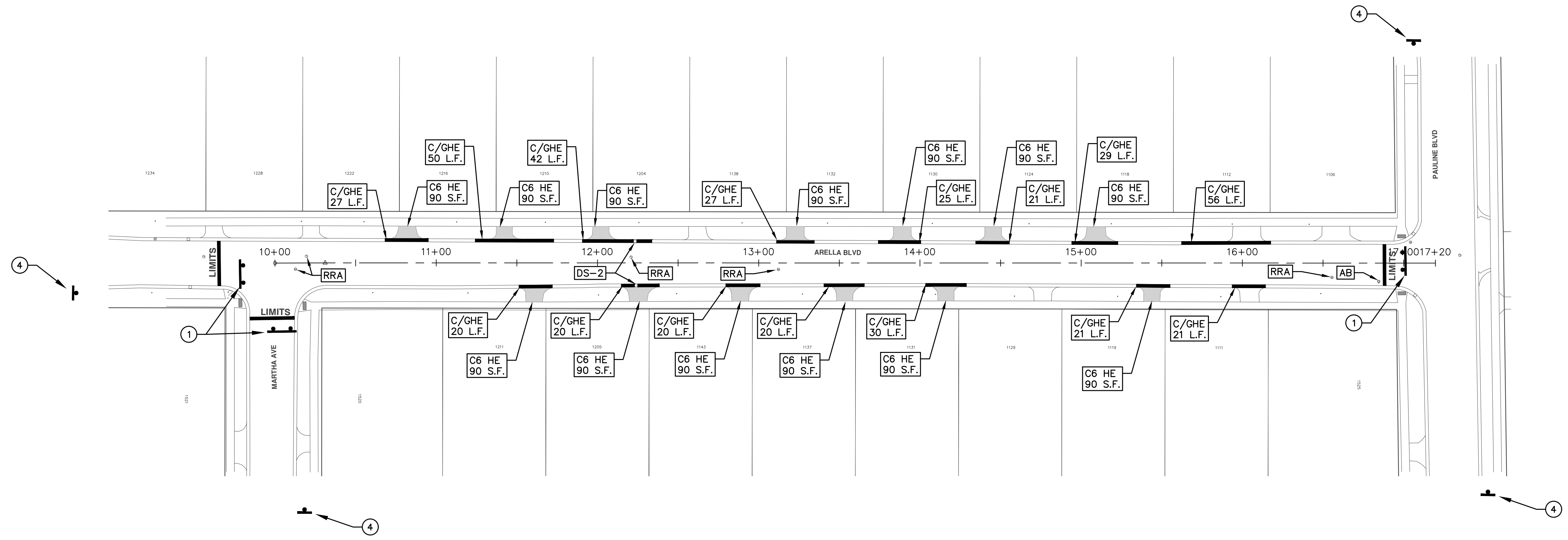
ANNUAL STREET RESURFACING - 2017

ARELLA BOULEVARD

DRAWING No. 2017004-16

SHEET No. 16 OF 136

S:\Project Management\Drafting\autocad\2017004\Plan Production\2017004 - Arella Boulevard.dwg Dwg Created: 7-Nov-16 - _a2_standard.bw.stb - Plot Date: 8-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 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 48106-0667
 ANN ARBOR 734.794.4410
 www.a2gov.org

REV.	DATE	DESCRIPTION	DRAWN	CHECKED
00	03-08-2017		AG.GSRG	DAD



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: HIGH ORCHARD DRIVE

ITB No. 4477 FILE No. 2017-004



S:\Project Management\Drafting\autocad\2017004\Plan Production\2017004 - High Orchard Drive.dwg Dwg Created: 7-Nov-16 - _o2 standard bw.stb - Plot Date: 8-Mar-17

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	855.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	199.000
2057011	Grading, Driveway Approach	Syd	20.000
2057011	Grading, Sidewalk	Syd	52.000
2057011	Grading, Sidewalk Ramp	Syd	114.000
2057011	Machine Grading, Special	Syd	5,568.000
2057021	Subgrade Undercutting, Type IIA	Cyd	548.000
2087050	Erosion Control, Inlet Filter	Ea	11.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	50.000
4030200	Dr Structure, 24 inch dia	Ea	5.000
4037050	Dr Structure Cover, Type D, Modified	Ea	1.000
4037050	Dr Structure Cover, Type K, Modified	Ea	9.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	13.000
4037050	Dr Structure, Point	Ea	1.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,259.000
5010005	HMA Surface, Rem	Syd	97.000
5010061	HMA, Approach	Ton	22.000
5010703	HMA, LVSP	Ton	1,237.000
6027021	Flowable Fill	Cyd	31.667
6030005	Cement	Ton	2.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	20.000
8027001	Curb and Gutter, Conc	Ft	671.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	199.000
8037001	Detectable Warning Surface, Modified	Ft	30.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1,026.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	445.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	19.900
810197	Pav Mrgk, Thermopl, 6 inch, Crosswalk	Ft	170.000
8110218	Pav Mrgk, Thermopl, 24 inch, Stop Bar	Ft	20.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	40.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	40.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	64.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	64.500
8127050	No Parking Sign	Ea	56.000
8167011	Slope Restoration	Syd	314.000
8230431	Gate Box, Adj, Case 1	Ea	3.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • 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 • Dr Structure, Point
PT	• 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
4.0	D3-1	Street Name Sign	4.000	16.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
		TOTAL		64.500

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.

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- 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 REQUIRED.
- 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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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

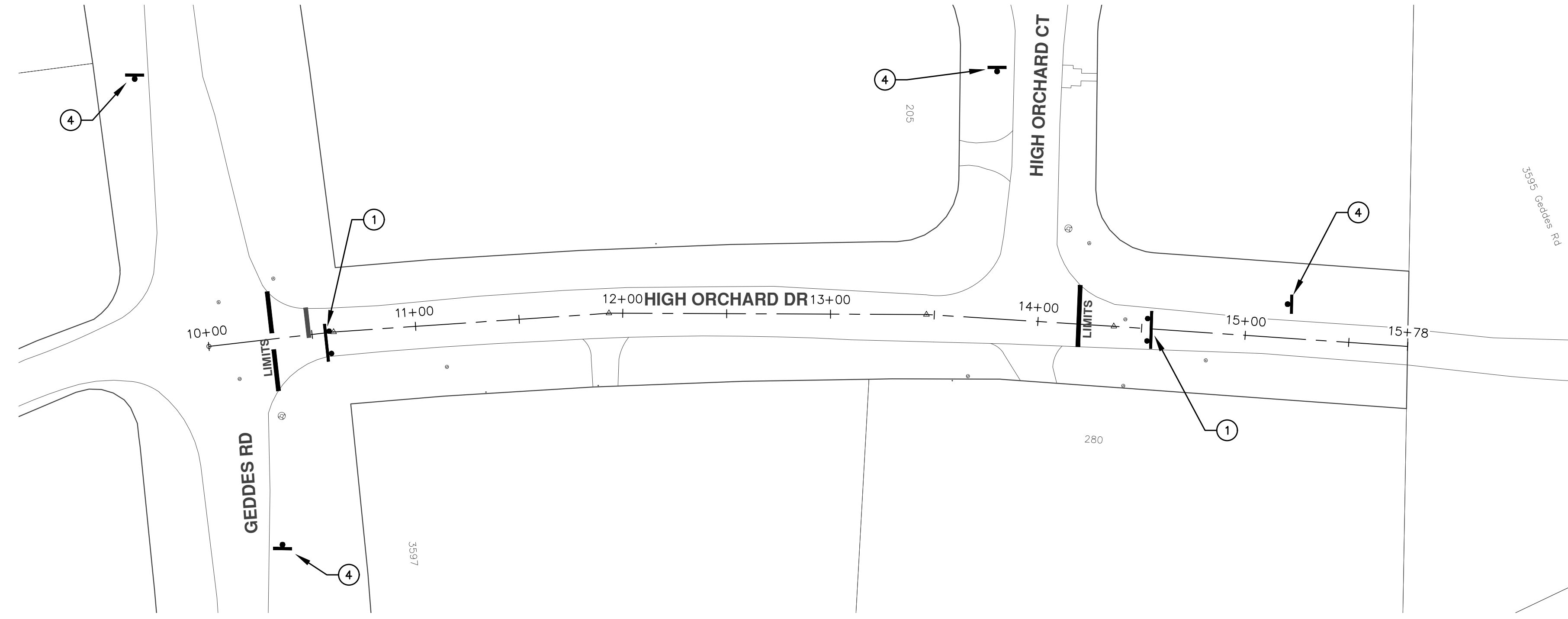
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

ANNUAL STREET RESURFACING - 2017

HIGH ORCHARD DRIVE

DRAWING No. 2017004-18

SHEET No. 18 OF 136



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

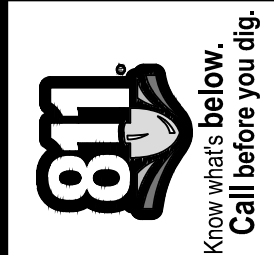
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=80'
 DRAWING No.
 2017004-19

ANNUAL STREET RESURFACING - 2017
 HIGH ORCHARD DRIVE
 STA. 10+00 - STA. 15+78



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

REV.	BID SET	DESCRIPTION	DATE	AG.CS.RG	DRAWN	CHECKED
00			03-08-2017			





CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: HIGH ORCHARD COURT

ITB No. 4477 FILE No. 2017-004



S:\Project Management\Drafting\autocad\2017004\Plan Production\2017004 - High Orchard Court.dwg Dwg Created: 7-Nov-16 - a2 standard bw.stb - Plot Date: 8-Mar-17

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	855.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	199.000
2057011	Grading, Driveway Approach	Syd	20.000
2057011	Grading, Sidewalk	Syd	52.000
2057011	Grading, Sidewalk Ramp	Syd	114.000
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4020987	Sewer, CI IV, 12 inch, Tr Det B	Fl	50.000
4030200	Dr Structure, 24 inch dia	Ea	5.000
4037050	Dr Structure Cover, Type D, Modified	Ea	1.000
4037050	Dr Structure Cover, Type K, Modified	Ea	9.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	13.000
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8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	40.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	40.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	64.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	64.500
8127050	No Parking Sign	Ea	56.000
8167011	Slope Restoration	Syd	314.000
8230431	Gate Box, Adj, Case 1	Ea	3.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• Grading, Driveway Approach • Driveway, Nonreinf Conc, 8 inch, Modified • Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc, 6 inch, Modified • Driveway, Nonreinf Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
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

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 REQUIRED.
- 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
4.0	D3-1	Street Name Sign	4.000	16.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
		TOTAL		64.500

NOTES

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

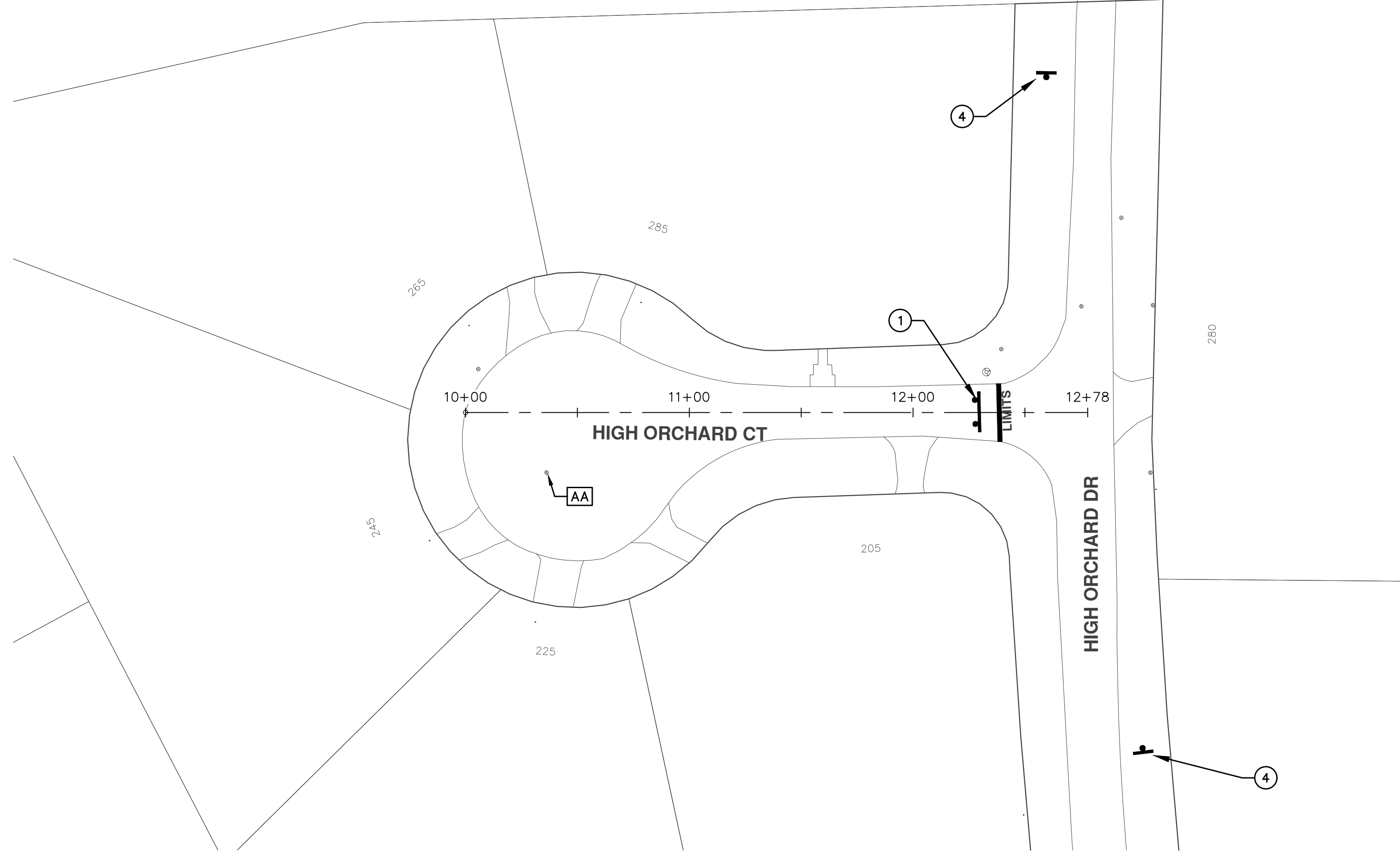
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

ANNUAL STREET RESURFACING - 2017

HIGH ORCHARD COURT

DRAWING No. 2017004-20

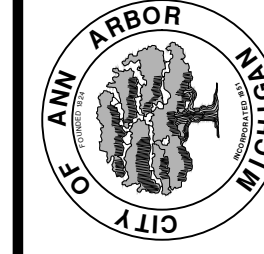
SHEET No. 20 OF 136



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



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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.GSRG	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.
- TEMPORARILY 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 REQUIRED.
- 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	5.000
2030015	Sewer, Rem, Less than 24 inch	Ft	50.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	855.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	199.000
2057011	Grading, Driveway Approach	Syd	20.000
2057011	Grading, Sidewalk	Syd	52.000
2057011	Grading, Sidewalk Ramp	Syd	114.000
2057011	Machine Grading, Special	Syd	5,568.000
2057021	Subgrade Undercutting, Type IIA	Cyd	548.000
2087050	Erosion Control, Inlet Filter	Ea	11.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	50.000
4030200	Dr Structure, 24 inch dia	Ea	5.000
4037050	Dr Structure Cover, Type D, Modified	Ea	1.000
4037050	Dr Structure Cover, Type K, Modified	Ea	9.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	13.000
4037050	Dr Structure, Point	Ea	1.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,259.000
5010005	HMA Surface, Rem	Syd	97.000
5010061	HMA, Approach	Ton	22.000
5010703	HMA, LVSP	Ton	1,237.000
6027021	Flowable Fill	Cyd	31.667
6030005	Cement	Ton	2.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	20.000
8027001	Curb and Gutter, Conc	Ft	671.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	199.000
8037001	Detectable Warning Surface, Modified	Ft	30.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1,026.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	445.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	19.900
8110197	Pavt Mrkg, Thermopt, 6 inch, Crosswalk	Ft	170.000
8110218	Pavt Mrkg, Thermopt, 24 inch, Stop Bar	Ft	20.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	40.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	40.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	64.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	64.500
8127050	No Parking Sign	Ea	56.000
8167011	Slope Restoration	Syd	314.000
8230431	Gate Box, Adj, Case 1	Ea	3.000

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

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

QUANTITIES				
Sign, Type B, Temp, Prismatic				
Quantity	Sign Code	Description	Area (sft)	Total
4.0	D3-1	Street Name Sign	4.000	16.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
		TOTAL		64.500

NOTES:

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

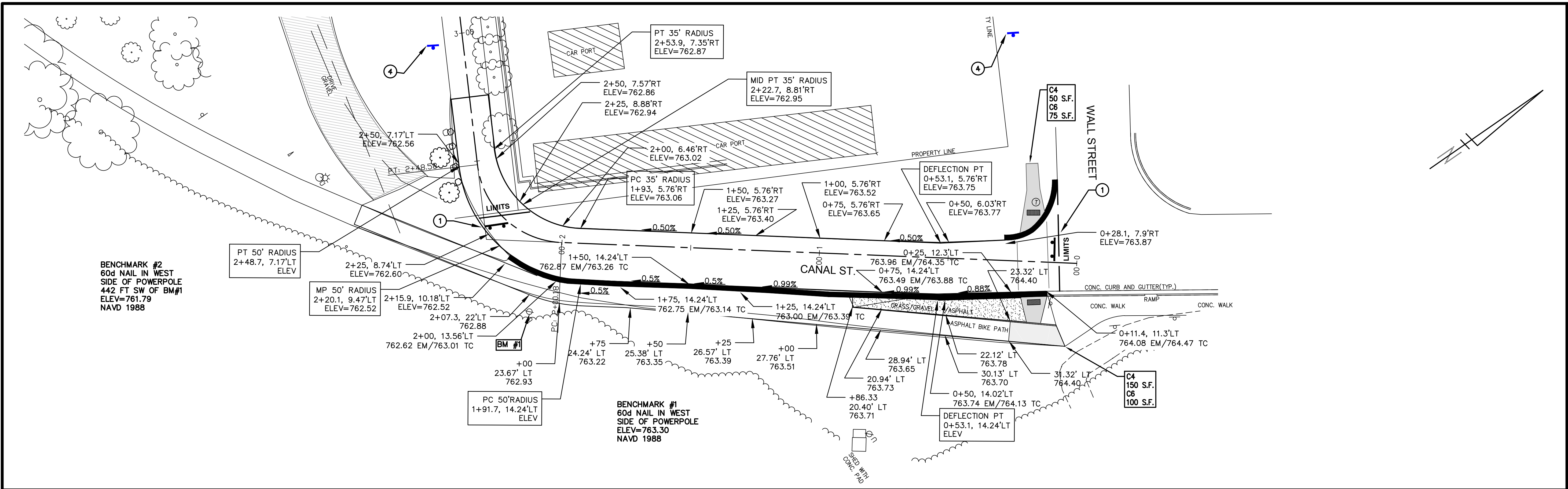


PROJECT MANAGEMENT SERVICES UNIT

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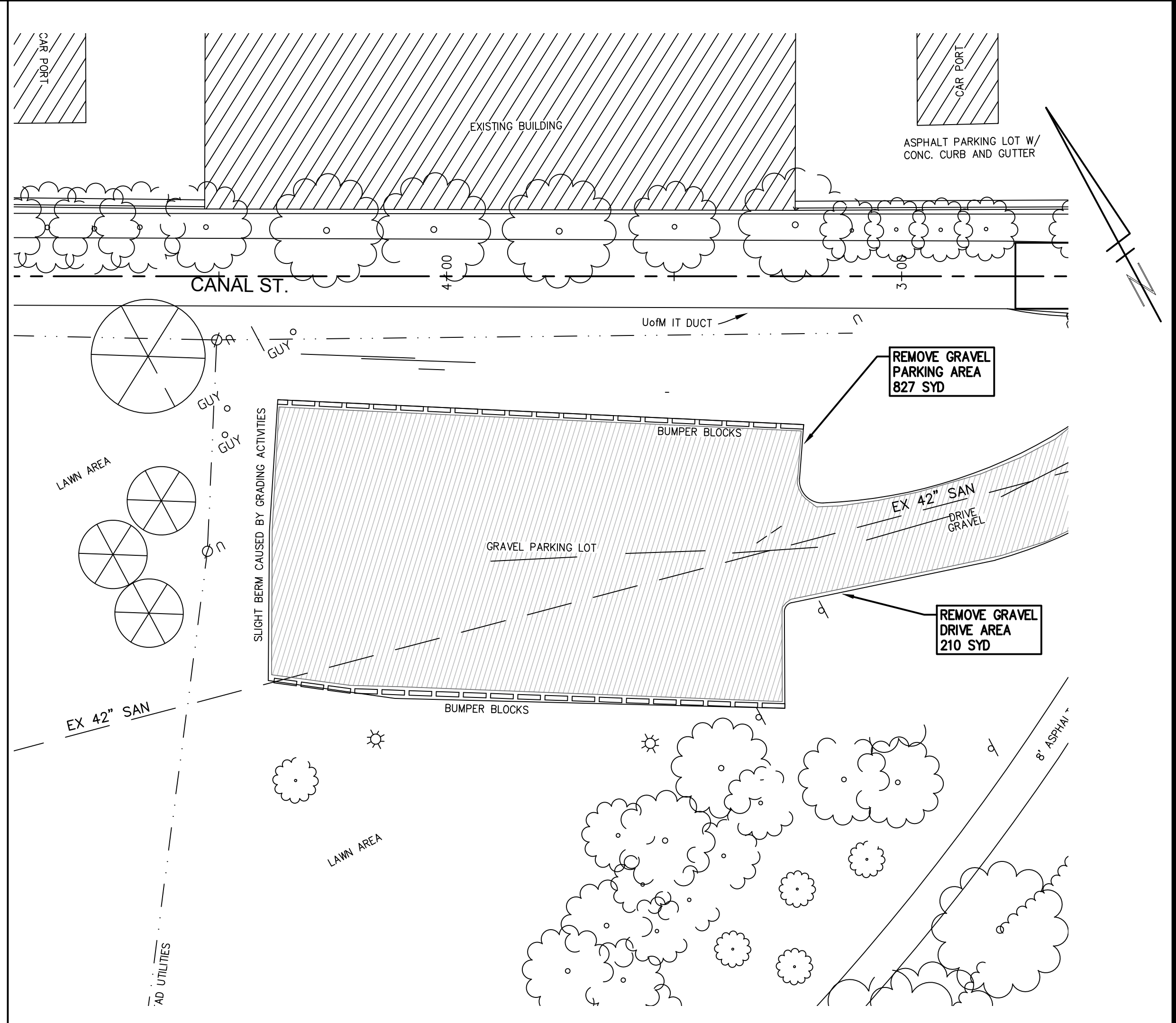
S:\Project Management\Drafting\autocad\2017004\Plan Production\2017004 - Canal St.dwg Dwg Created: 10-Jan-17 - a2_standard bw.stb - Plot Date: 8-Mar-17




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





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

STA. 0+00 - STA. 4+70

2017004 - 23

NO	BID SET	DATE	DESCRIPTION
00			REV
			DRAWN
			CHECKED
			DAD
			AG.GS.RG
		03-08-2017	DATE

SHEET No. 23 of 136



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: WEST DAVIS AVENUE

ITB No. 4477 FILE No. 2017-004



S:\Project Management\Drafting\autocad\2017004 - West Davis Avenue.dwg Dwg Created: 10-Jan-17 - a2 standard bw.stb - Plot Date: 8-Mar-17

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	855.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	199.000
2057011	Grading, Driveway Approach	Syd	20.000
2057011	Grading, Sidewalk	Syd	52.000
2057011	Grading, Sidewalk Ramp	Syd	114.000
2057011	Machine Grading, Special	Syd	5,568.000
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8037010	Sidewalk, Conc, 6 inch, Modified	Sft	19.900
8110197	Pav Mrg, Thermopl, 6 inch, Crosswalk	Ft	170.000
8110218	Pav Mrg, Thermopl, 24 inch, Stop Bar	Ft	20.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
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8230431	Gate Box, Adj, Case 1	Ea	3.000

CONSTRUCTION KEY	
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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
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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
4.0	D3-1	Street Name Sign	4.000	16.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
		TOTAL		64.500

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 REQUIRED.
- 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

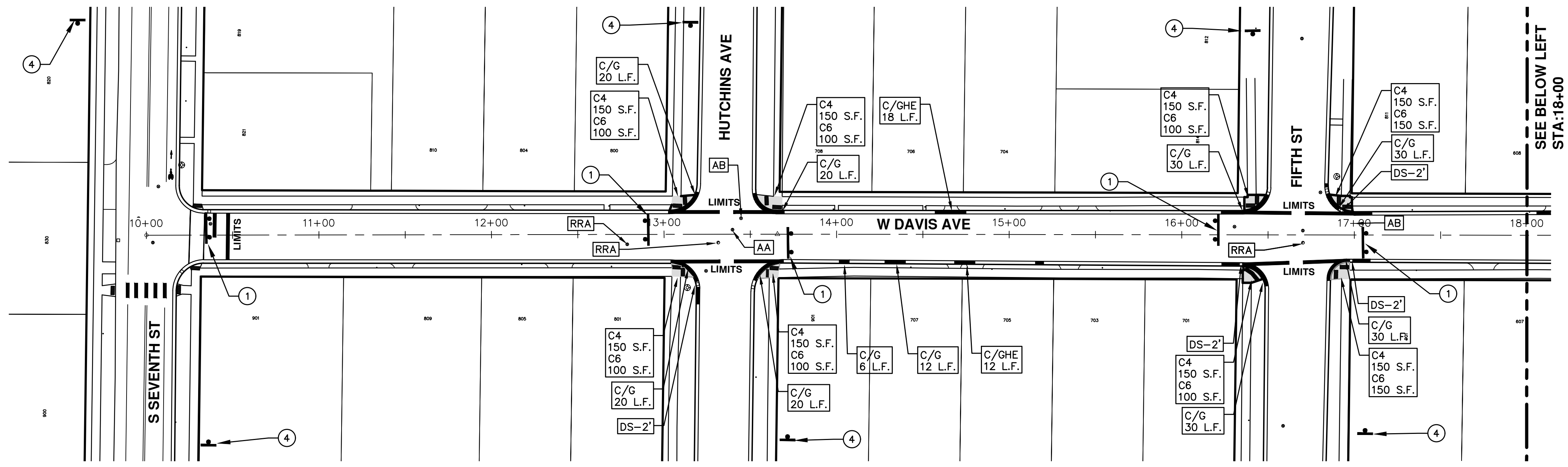
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

ANNUAL STREET RESURFACING - 2017

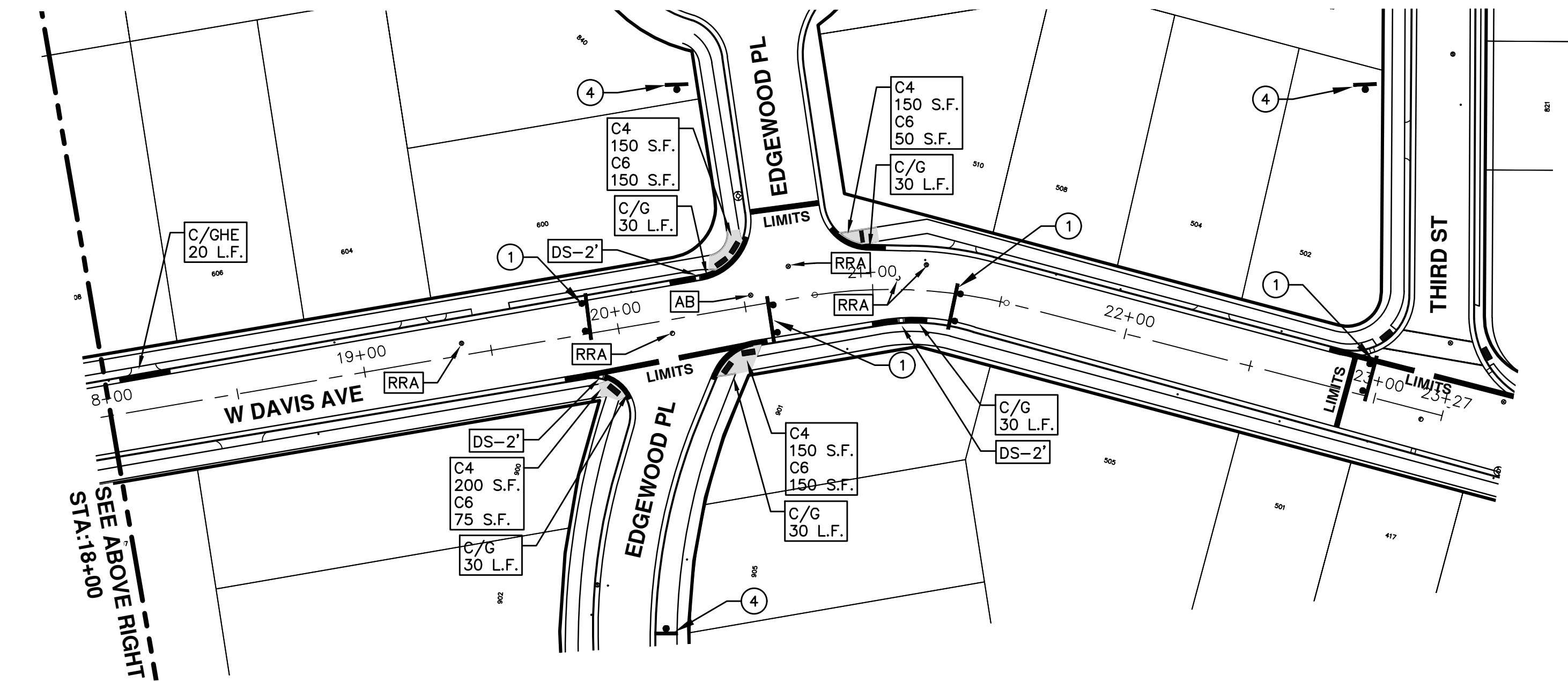
WEST DAVIS AVENUE

DRAWING No. 2017004-24

SHEET No. 24 OF 136



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 PROJECT MANAGEMENT



PROJECT LOCATION: WEST JEFFERSON 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, 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 REQUIRED.
- 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	5.000
2030015	Sewer, Rem, Less than 24 inch	Ft	50.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	855.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	199.000
2057011	Grading, Driveway Approach	Syd	20.000
2057011	Grading, Sidewalk	Syd	52.000
2057011	Grading, Sidewalk Ramp	Syd	114.000
2057011	Machine Grading, Special	Syd	5,568.000
2057021	Subgrade Undercutting, Type IIA	Cyd	548.000
2087050	Erosion Control, Inlet Filter	Ea	11.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	50.000
4030200	Dr Structure, 24 inch dia	Ea	5.000
4037050	Dr Structure Cover, Type D, Modified	Ea	1.000
4037050	Dr Structure Cover, Type K, Modified	Ea	9.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	13.000
4037050	Dr Structure, Point	Ea	1.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,259.000
5010005	HMA Surface, Rem	Syd	97.000
5010061	HMA, Approach	Ton	22.000
5010703	HMA, LVSP	Ton	1,237.000
6027021	Flowable Fill	Cyd	31.667
6030005	Cement	Ton	2.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	20.000
8027001	Curb and Gutter, Conc	Ft	671.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	199.000
8037001	Detectable Warning Surface, Modified	Ft	30.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1,026.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	445.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	19.900
8110197	Pavt Mrgg, Thermopl, 6 inch, Crosswalk	Ft	170.000
8110218	Pavt Mrgg, Thermopl, 24 inch, Stop Bar	Ft	20.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	40.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	40.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	64.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	64.500
8127050	No Parking Sign	Ea	56.000
8167011	Slope Restoration	Syd	314.000
8230431	Gate Box, Adj, Case 1	Ea	3.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • 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
C8HE	• 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 • Dr Structure, Point
PT	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRA	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, 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
4.0	D3-1	Street Name Sign	4.000	16.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
		TOTAL		64.500

NOTES

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

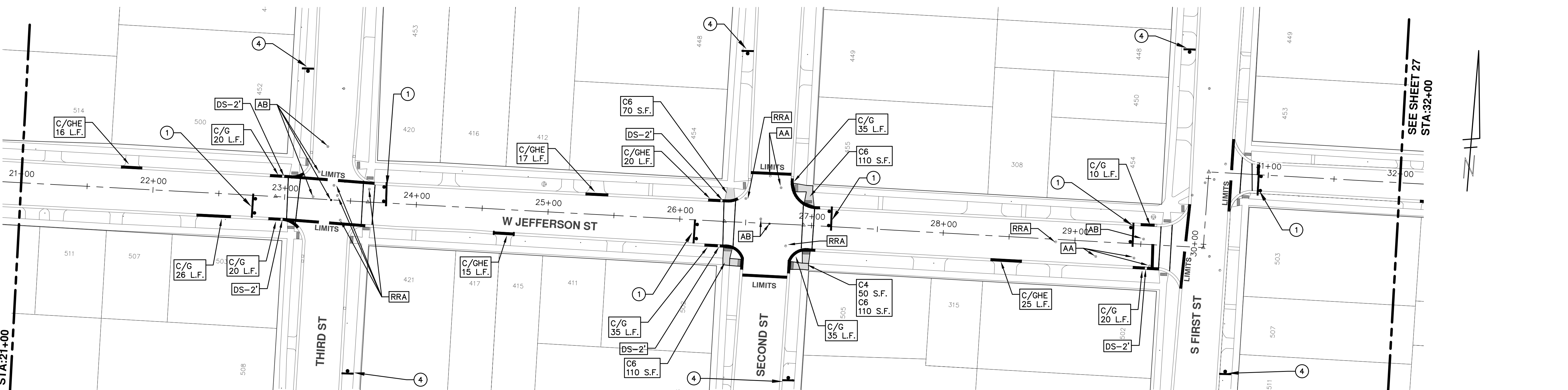
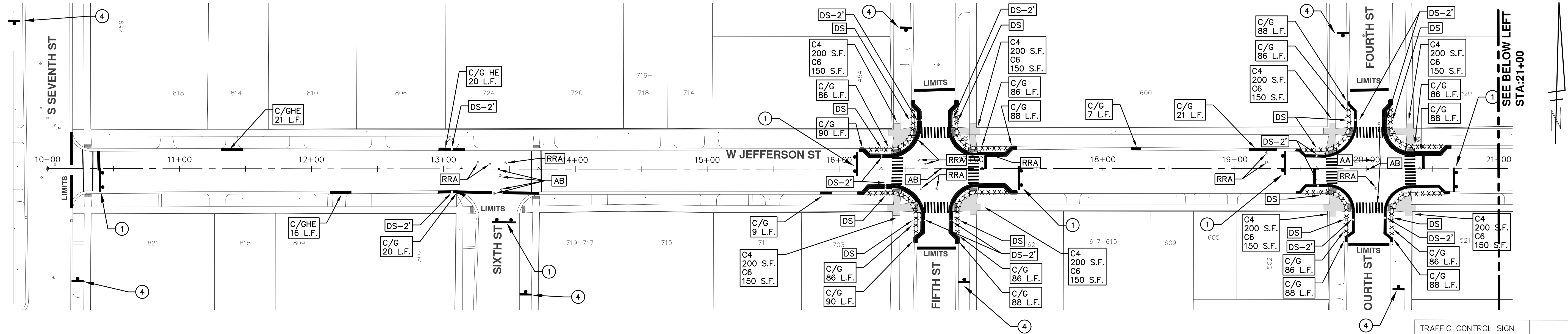


PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
WEST JEFFERSON STREET
DRAWING No. 2017004-26

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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	W20-3 36"x36"
	JEFFERSON ST	D3-1
④	ROAD WORK AHEAD	W20-1 36"x36"
	JEFFERSON ST	D3-1

SEE ABOVE RIGHT
STA:21+00

SEE SHEET 27
STA:32+00

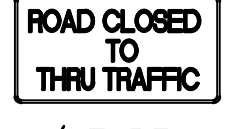





811
Know what's below.
Call before you dig.

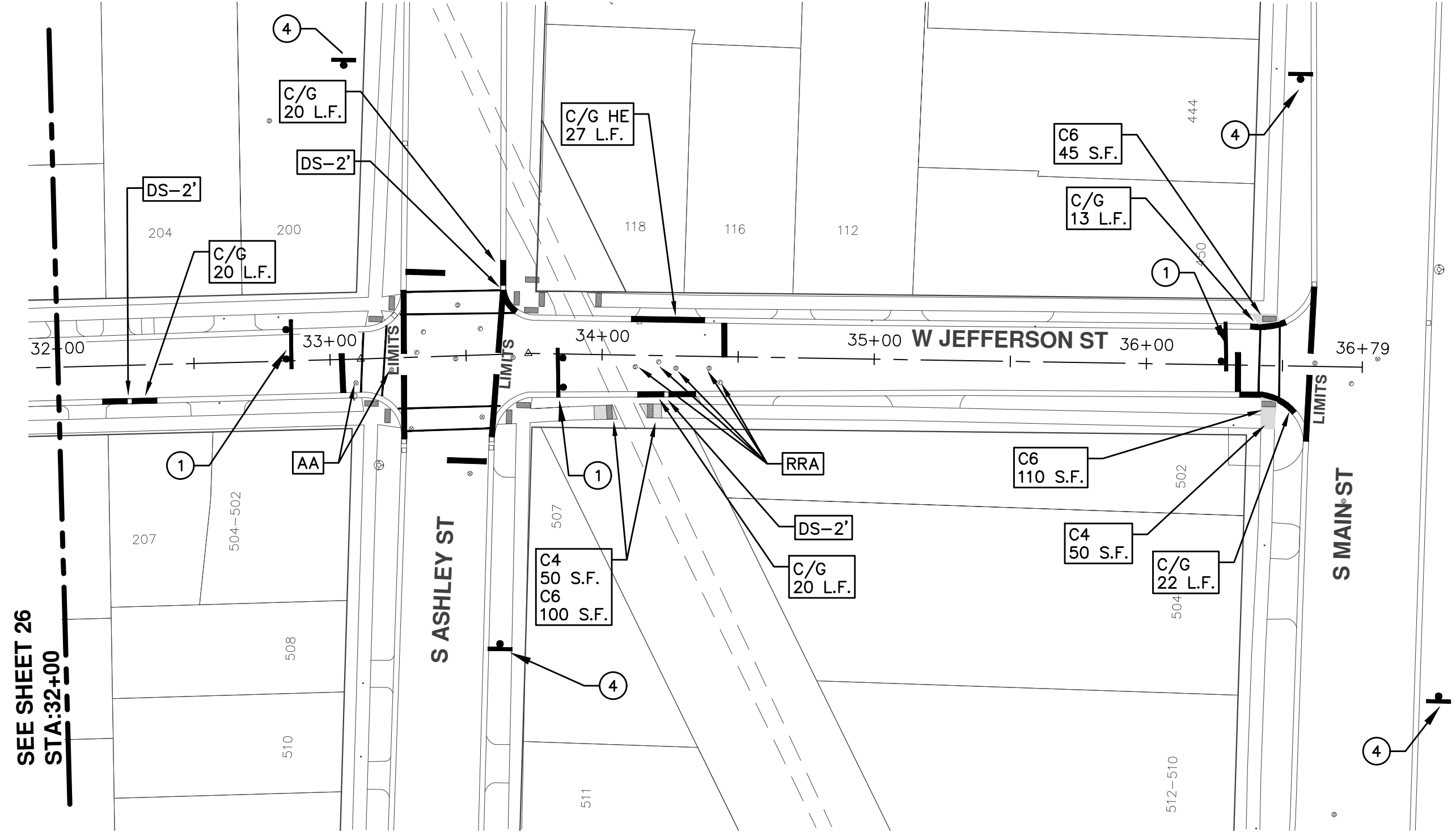
REV.	DATE	DESCRIPTION
00	03-08-2017	AG, GS, RG, DAD
		DRAWN
		CHECKED

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

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

SHEET No. **27 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  JEFFERSON ST	W20-3 36"x36" D3-1
④	 ROAD WORK AHEAD  JEFFERSON ST	W20-1 36"x36" D3-1





CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: WILDER PLACE

ITB No. 4477 FILE No. 2017-004



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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	855.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	199.000
2057011	Grading, Driveway Approach	Syd	20.000
2057011	Grading, Sidewalk	Syd	52.000
2057011	Grading, Sidewalk Ramp	Syd	114.000
2057011	Machine Grading, Special	Syd	5,568.000
2057021	Subgrade Undercutting, Type IIA	Cyd	548.000
2087050	Erosion Control, Inlet Filter	Ea	11.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	50.000
4030200	Dr Structure, 24 inch dia	Ea	5.000
4037050	Dr Structure Cover, Type D, Modified	Ea	1.000
4037050	Dr Structure Cover, Type K, Modified	Ea	9.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	13.000
4037050	Dr Structure, Point	Ea	1.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,259.000
5010005	HMA Surface, Rem	Syd	97.000
5010061	HMA, Approach	Ton	22.000
5010703	HMA, LVSP	Ton	1,237.000
6027021	Flowable Fill	Cyd	31.667
6030005	Cement	Ton	2.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	20.000
8027001	Curb and Gutter, Conc	Ft	671.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	199.000
8037001	Detectable Warning Surface, Modified	Ft	30.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1,026.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	445.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	19.900
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	170.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	20.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	40.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	40.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	64.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	64.500
8127050	No Parking Sign	Ea	56.000
8167011	Slope Restoration	Syd	314.000
8230431	Gate Box, Adj, Case 1	Ea	3.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
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
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 (sqft)	Total
4.0	D3-1	Street Name Sign	4.000	16.000
1.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	12.500
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	W20-3	Road Closed Ahead Sign	9.000	18.000
TOTAL			64.500	64.500

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 REQUIRED.
- 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.



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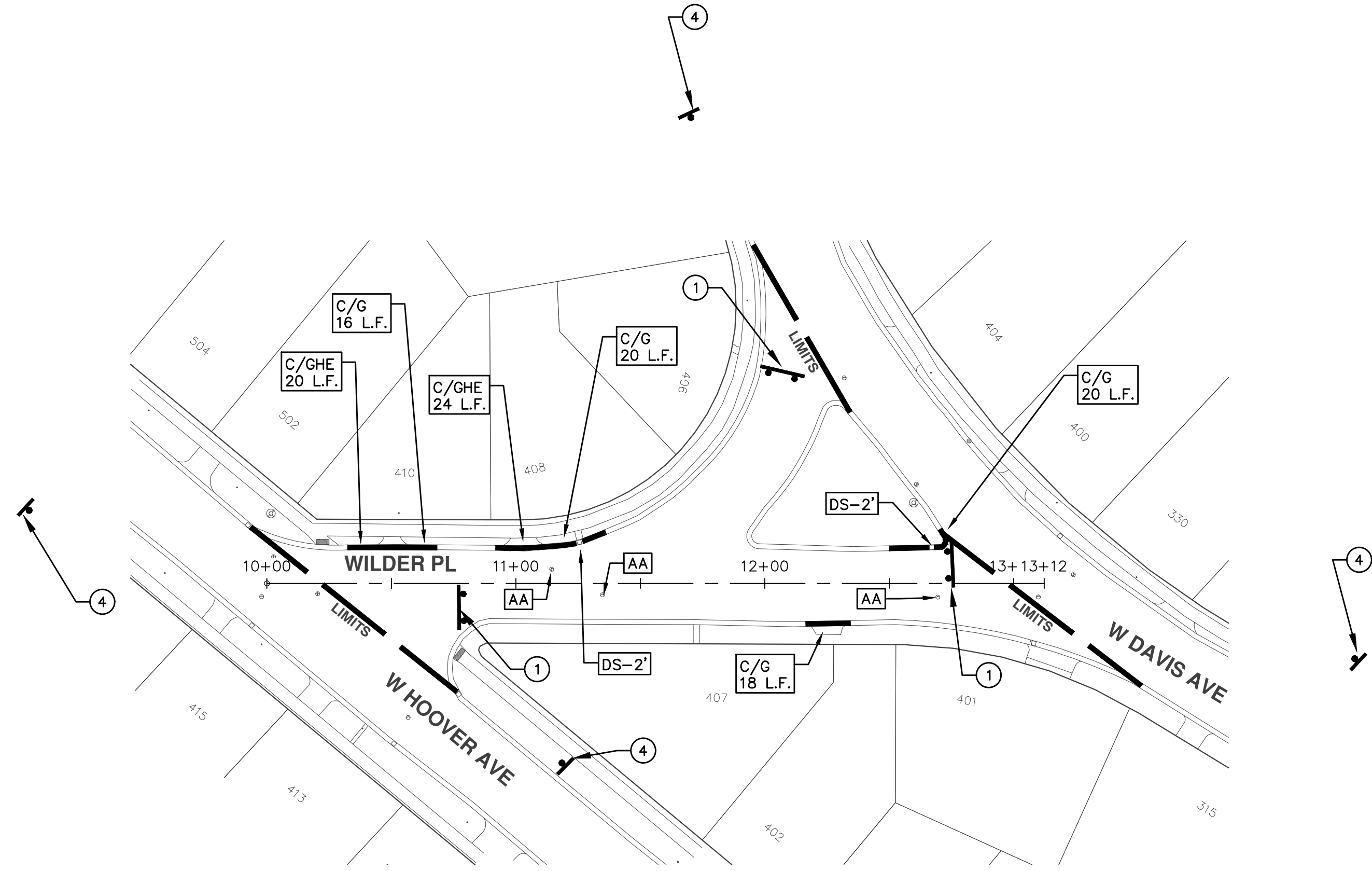
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

ANNUAL STREET RESURFACING - 2017

WILDER PLACE

DRAWING No. 2017004-29

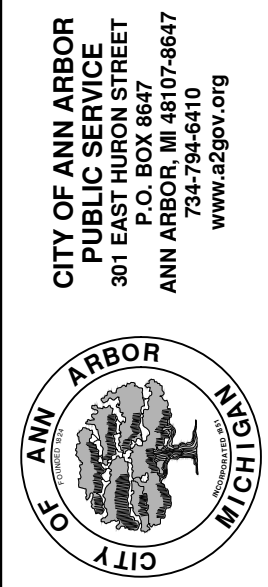
SHEET No. 29 OF 136



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 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



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.GS.RG	DAD



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: ARLINGTON BOULEVARD

ITB No. 4477 FILE No. 2017-004



CONSTRUCTION METHOD AND SEQUENCING

1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
2. IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK.
7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE 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 #	DESCRIPTION	Units	Total
206	Remove HMA Pavement	S.Y.	28
207	Cold Milling Pavement	Tons	270
209	Subgrade Undercutting - Type II	C.Y.	160
220	HMA Patching	Tons	3
222	HMA Pavement Leveling, Regular	Tons	180
224	HMA Pavement Wearing, 36A	Tons	90
230	Rem. Curb & Gutter, Any Type	L.F.	490
232	Rem. Conc. Sidewalk & Drive - Any Thickness	S.F.	300
237	Conc. Curb & Gutter - Any Type - Fixed Form	L.F.	490
240	4" Sidewalk or Ramp	S.F.	0
241	6" Drive, Sidewalk or Ramp	S.F.	300
245	Detectable Warning, Cast in Place	S.F.	0
247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	0
250	2' Dia. Structure	Each	0
254	Lower Structure Cover	Each	4
255	Lower Mon./Gate Valve Box	Each	0
256	Adjust Structure Cover	Each	4
257	Adjust Curb Inlet Structure Cover	Each	0
258	Adjust Mon. or Gate Valve Box	Each	0
259	Manhole Flange & Cover (MDOT Type A)	Each	3
261	Pt. Drain Structures	Each	2
264	12" Sewer, Trench Detail I, Modified	L.F.	0
268	Flowable Fill	C.Y.	14
271	21AA Limestone - C.I.P.	C.Y.	160
282	Plastic Drum - Lighted - Furn. & Operate	Each	18
283	Barricade Type III - Furn. & Operate	Each	2
284	Temp Signs Type - B	S.F.	101
285	No Parking Sign	Each	13
291	12" Thermo. White or Yellow	L.F.	0
594	4" White Thermo.	L.F.	0
595	4" Yellow Thermo.	L.F.	0
596	6" White Thermo.	L.F.	70
597	24" White Thermo.	L.F.	15
598	Pvmt. Marking Symbol	Each	0

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
2	W20-1	"ROAD WORK AHEAD"
2	W20-3	"ROAD CLOSED AHEAD"
3	D3-1	CONVENTIONAL GUIDE
2	TYPE III	TYPE III LIGHTED BARRICADE
2	R11-4	Road Closed to Thru Traffic
0	TYPE II	TYPE II BARRICADE DRUM

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

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

ANNUAL STREET RESURFACING - 2017

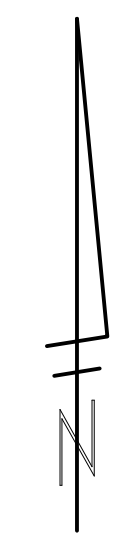
ARLINGTON BOULEVARD

DRAWING No. 2017004-31

SHEET No. 31 OF 136



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

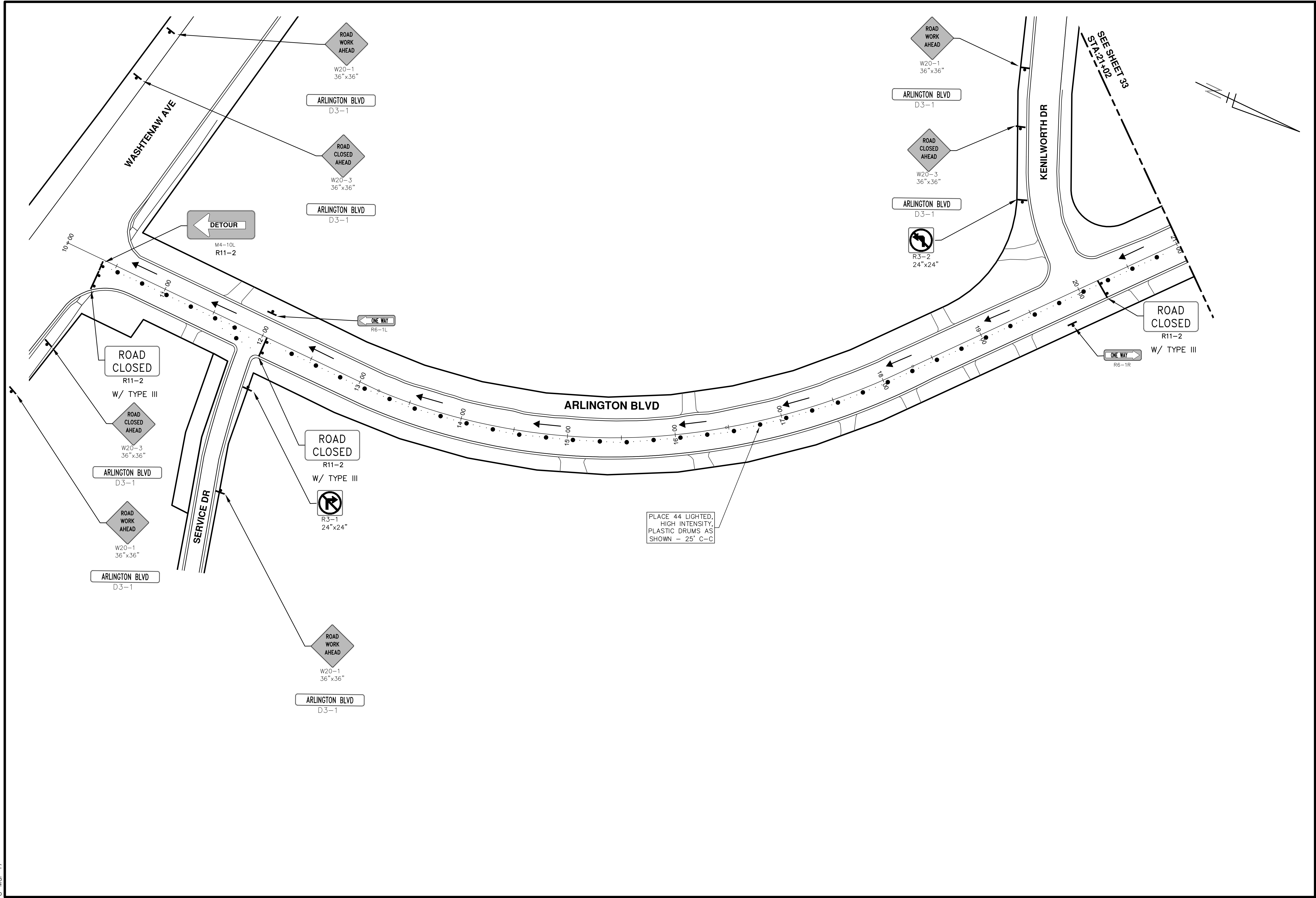
SHEET No. 32 OF 136

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

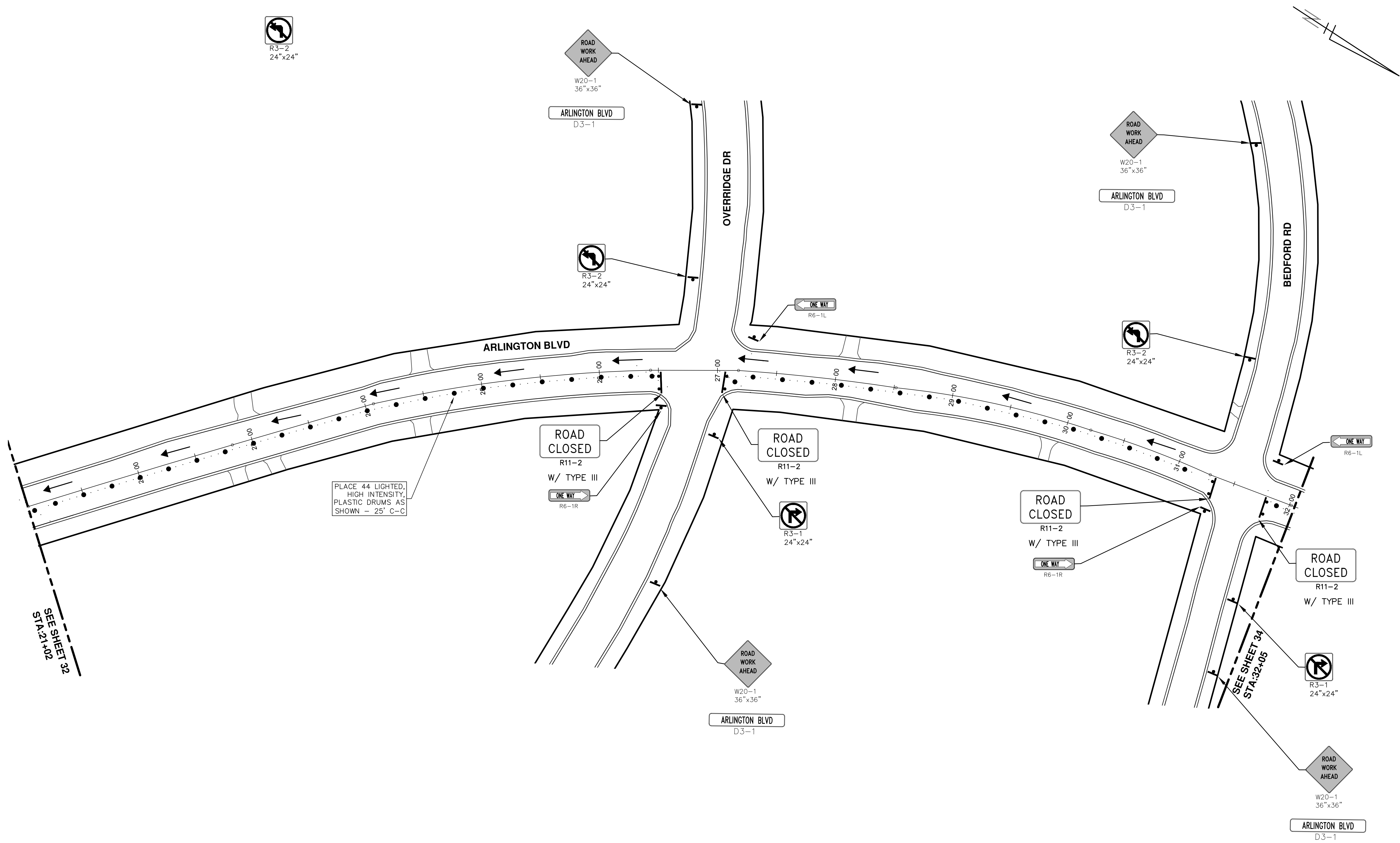
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<p> PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2017 ARLINGTON BOULEVARD TRAFFIC CONTROL </p>	<p> SCALE PLAN: ##### DRAWING No. 2017004-33 </p>										
<p> CITY OF ANN ARBOR PUBLIC SERVICE 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 www.a2gov.org </p>	<table border="1"> <thead> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DRAWN</th> <th>CHECKED</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>BID SET</td> <td>03-08-2017</td> <td>AG,CS,RG</td> <td>DAD</td> </tr> </tbody> </table>	REV.	DESCRIPTION	DATE	DRAWN	CHECKED	00	BID SET	03-08-2017	AG,CS,RG	DAD
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 ARLINGTON BOULEVARD
 TRAFFIC CONTROL

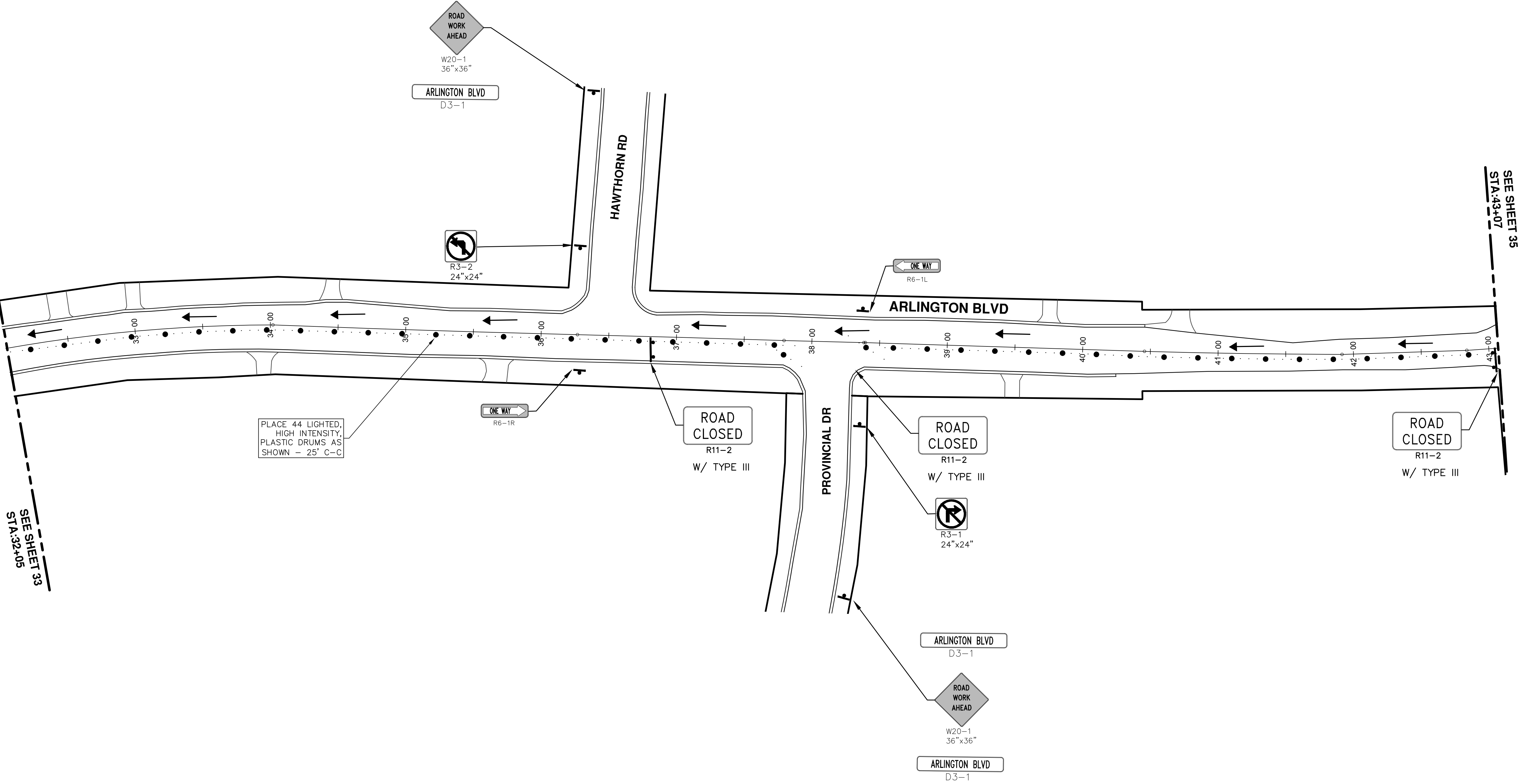
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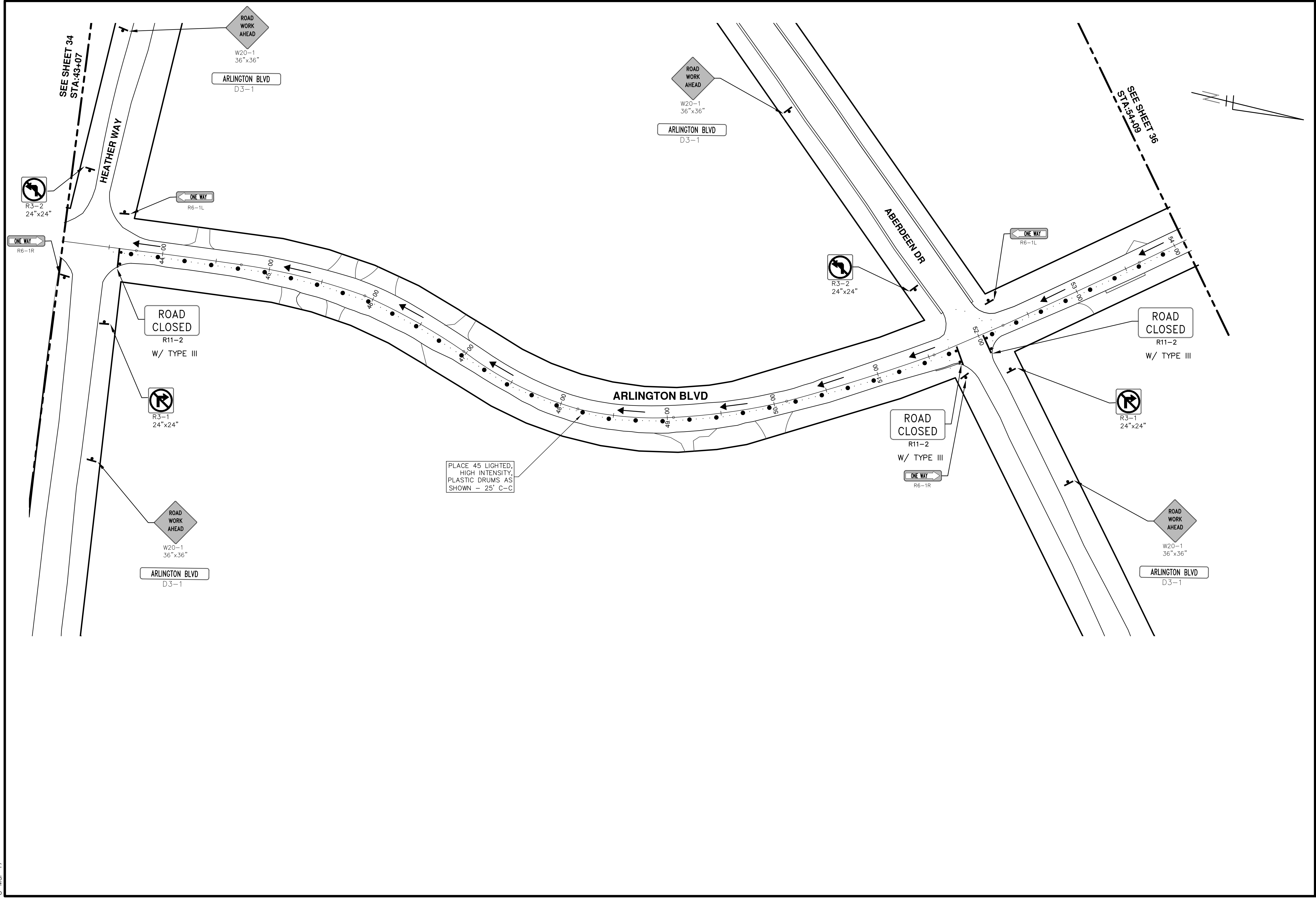
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SHEET No. 34 OF 136



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

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 Know what's below.
 Call before you dig.

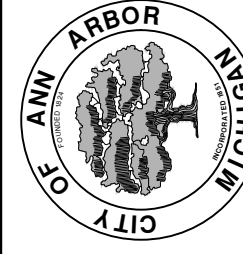
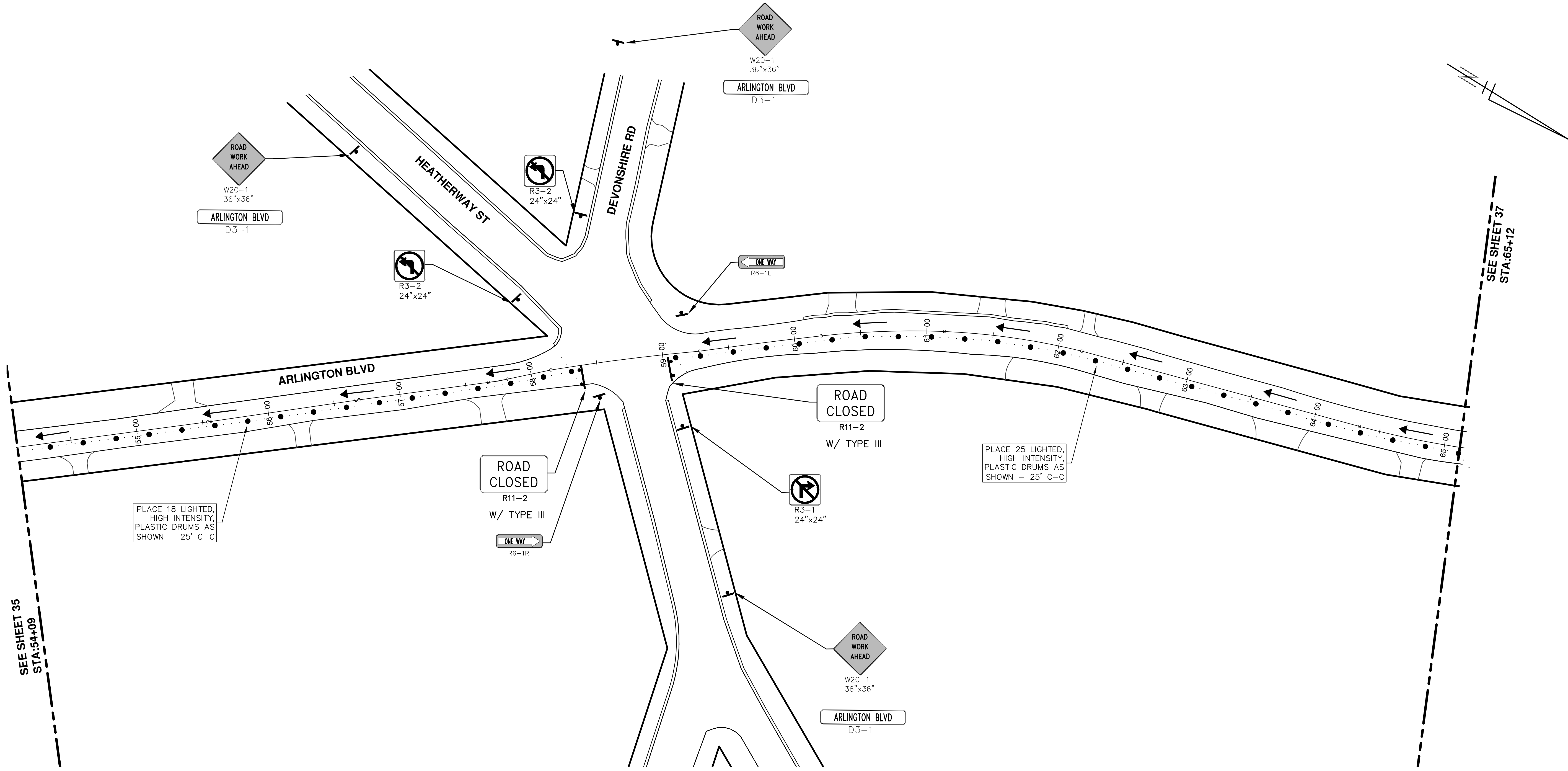
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SHEET No. 33 OF 136

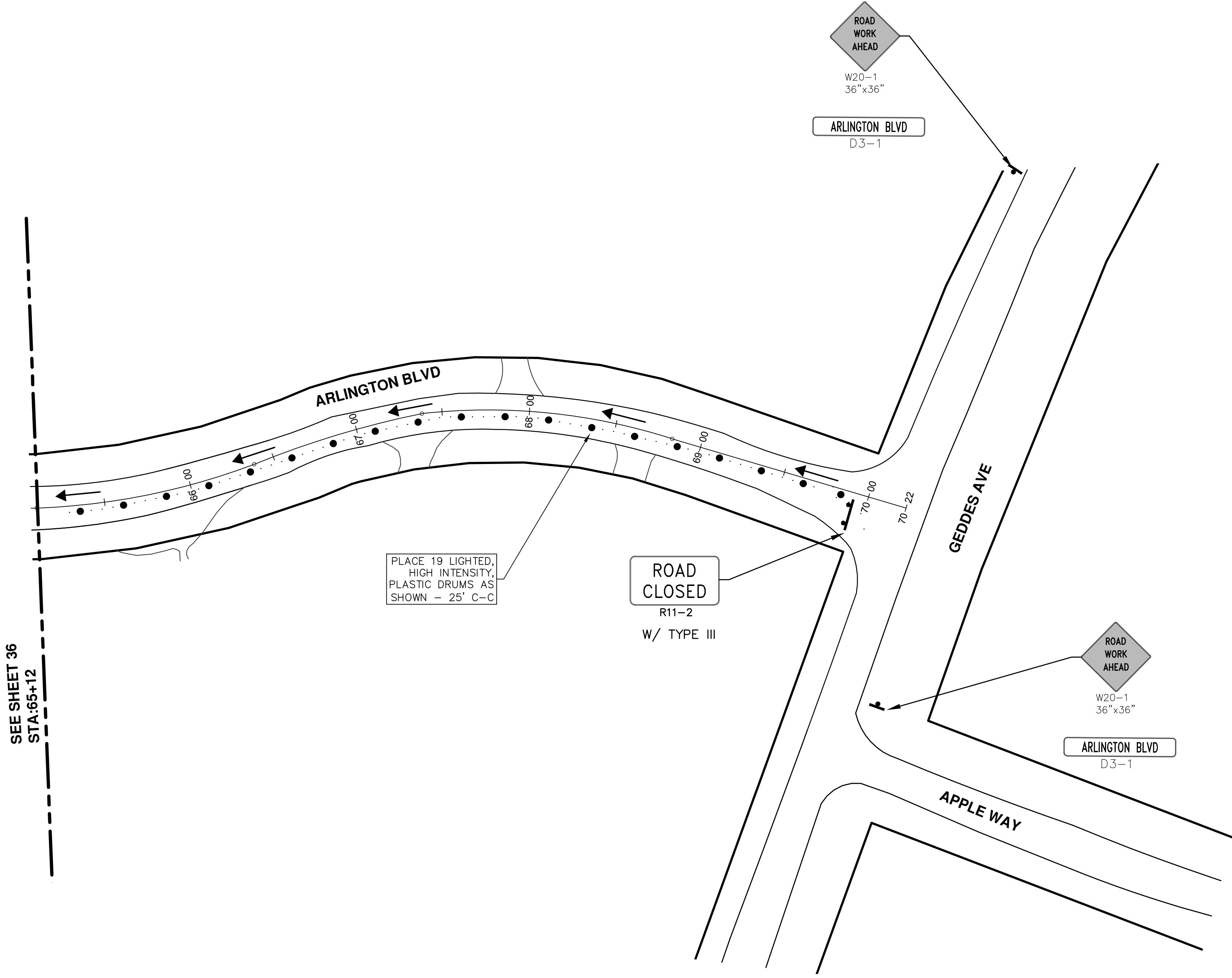
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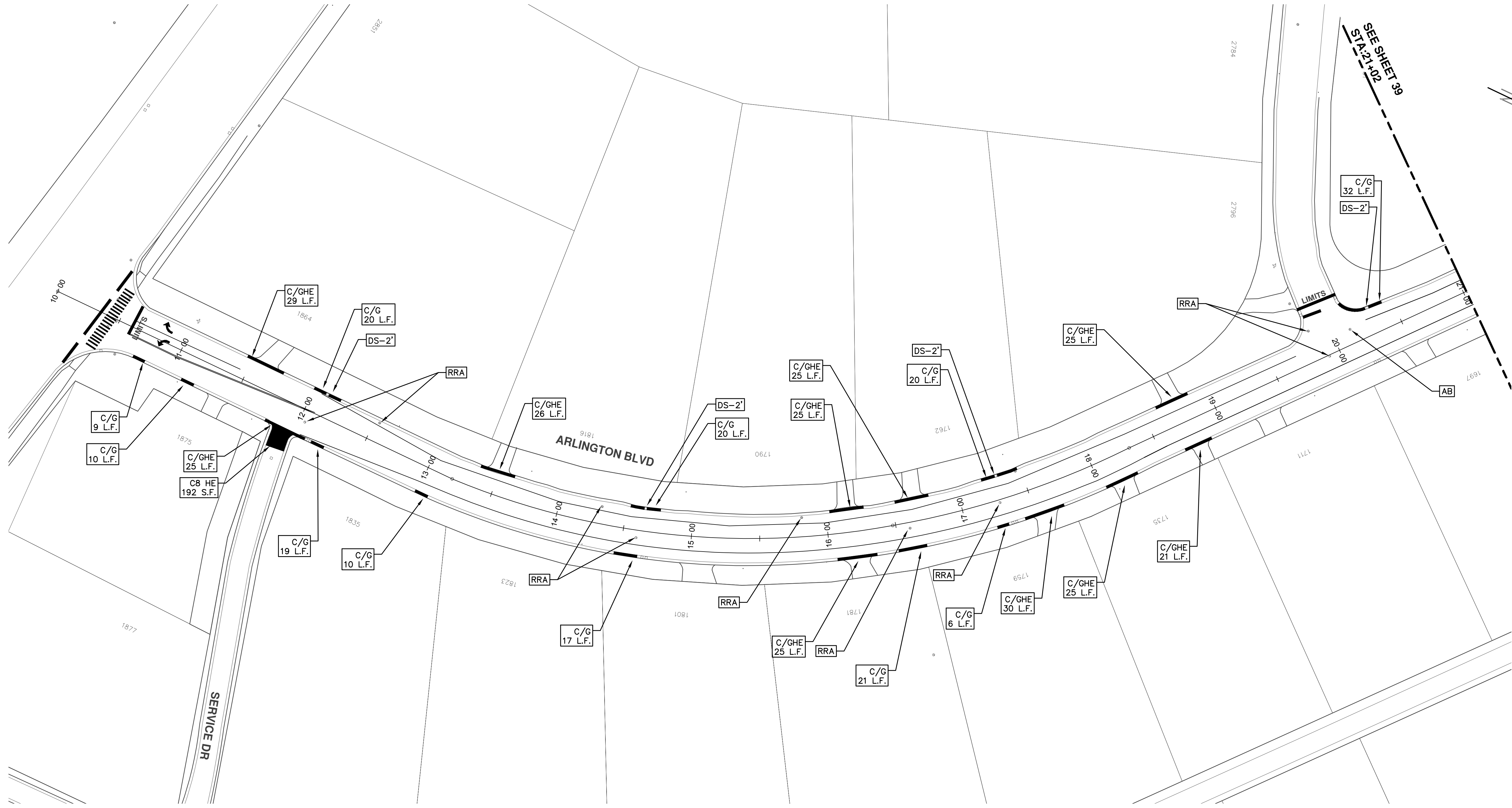
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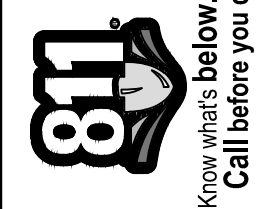




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SEE SHEET 38
STA. 21+02



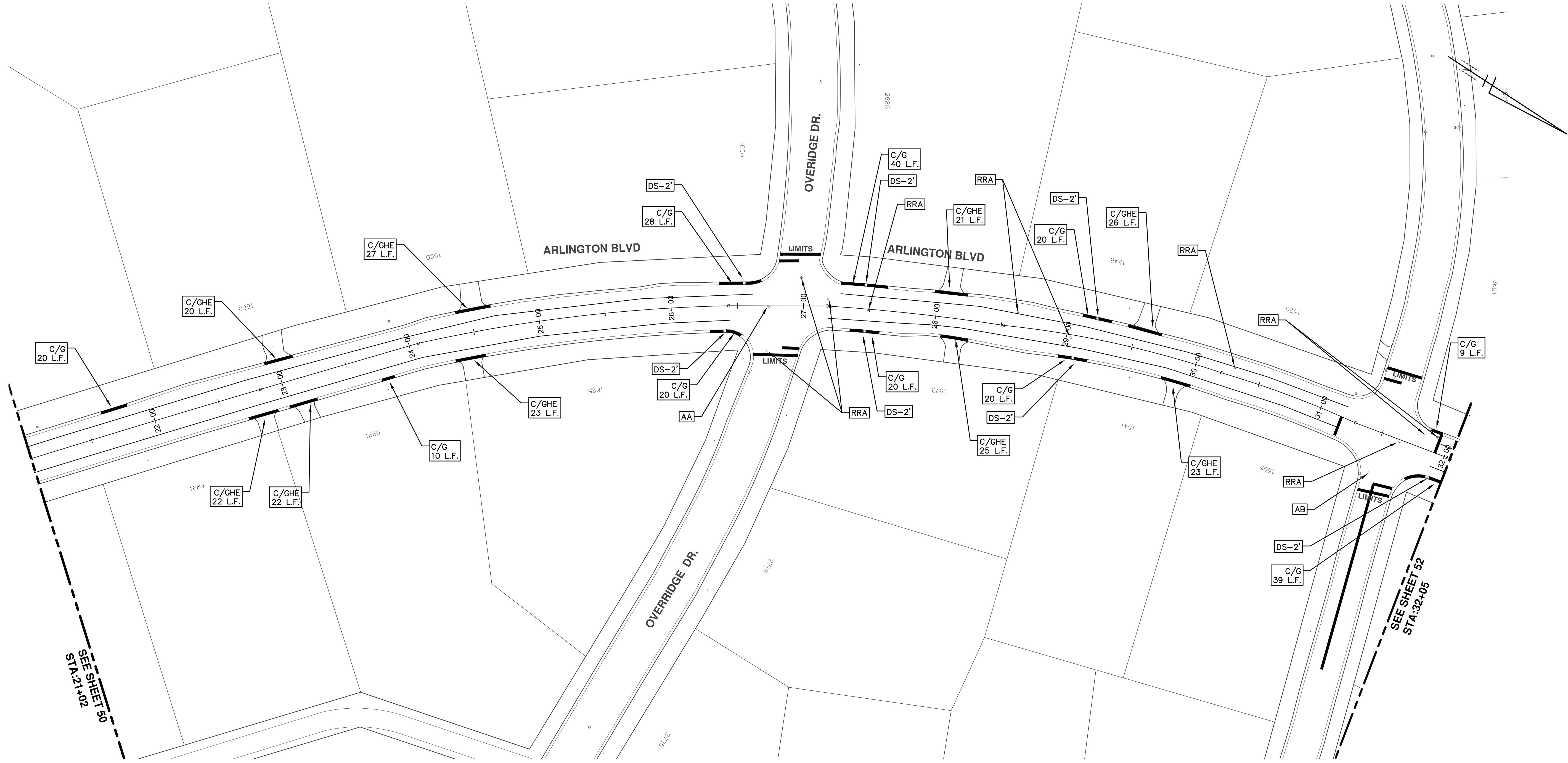
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
ARLINGTON BOULEVARD
STA. 10+00 - STA. 21+02

SCALE PLAN: 1"=8'
DRAWING No. 2017004-39



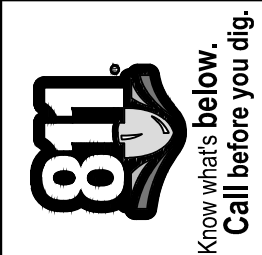
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
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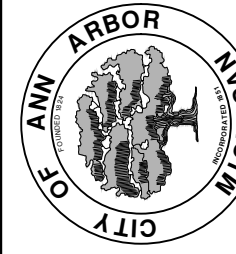
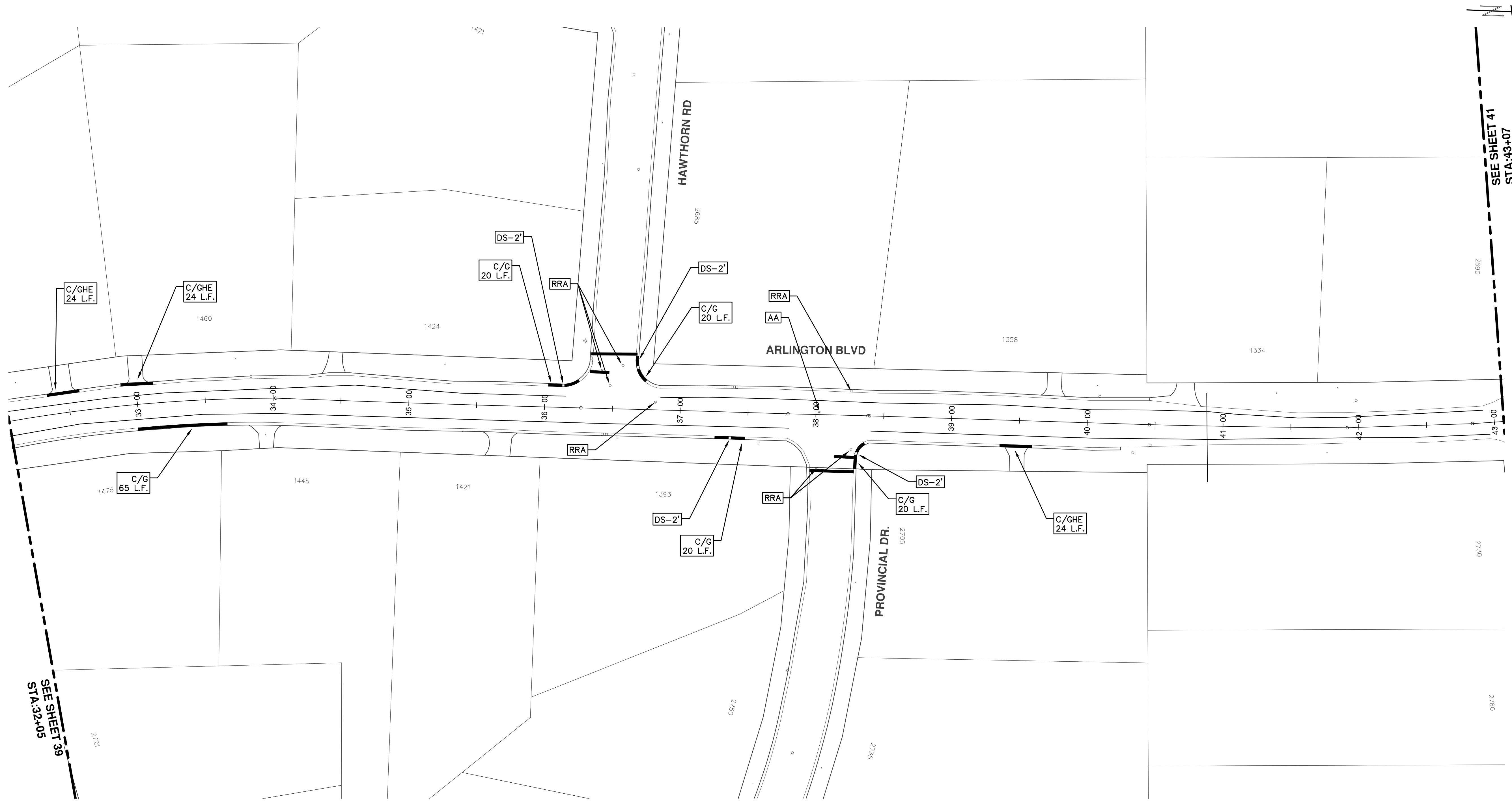
ANNUAL STREET RESURFACING - 2017
 ARLINGTON BOULEVARD
 STA. 21+02 - STA. 32+05



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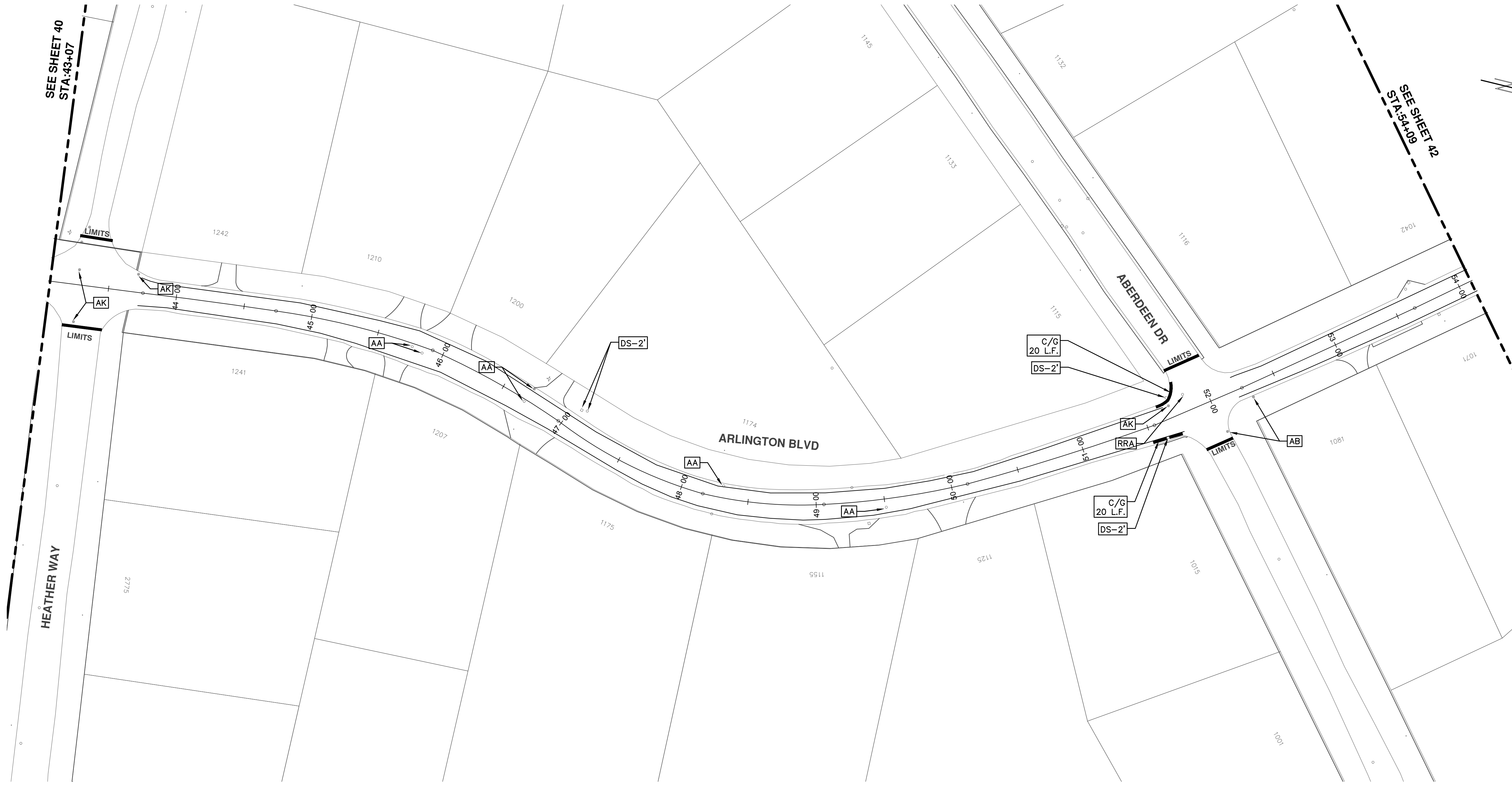




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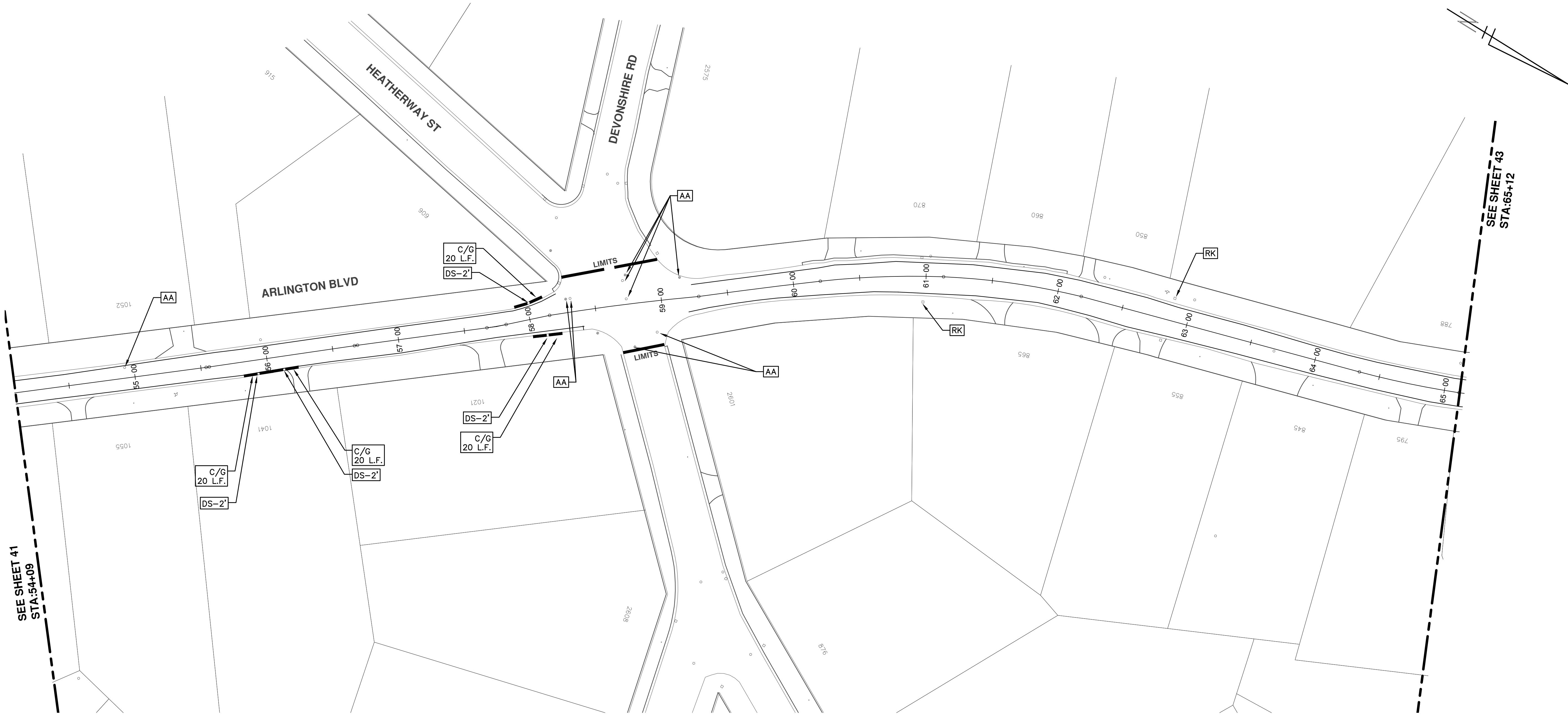




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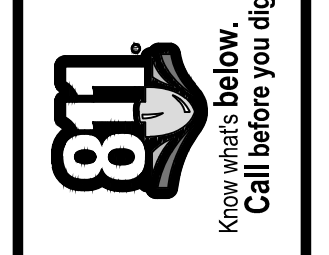
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STA: 54+09

SEE SHEET 43
STA: 65+12

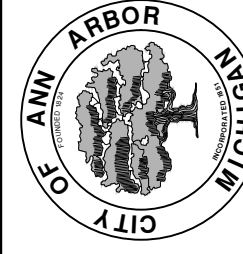


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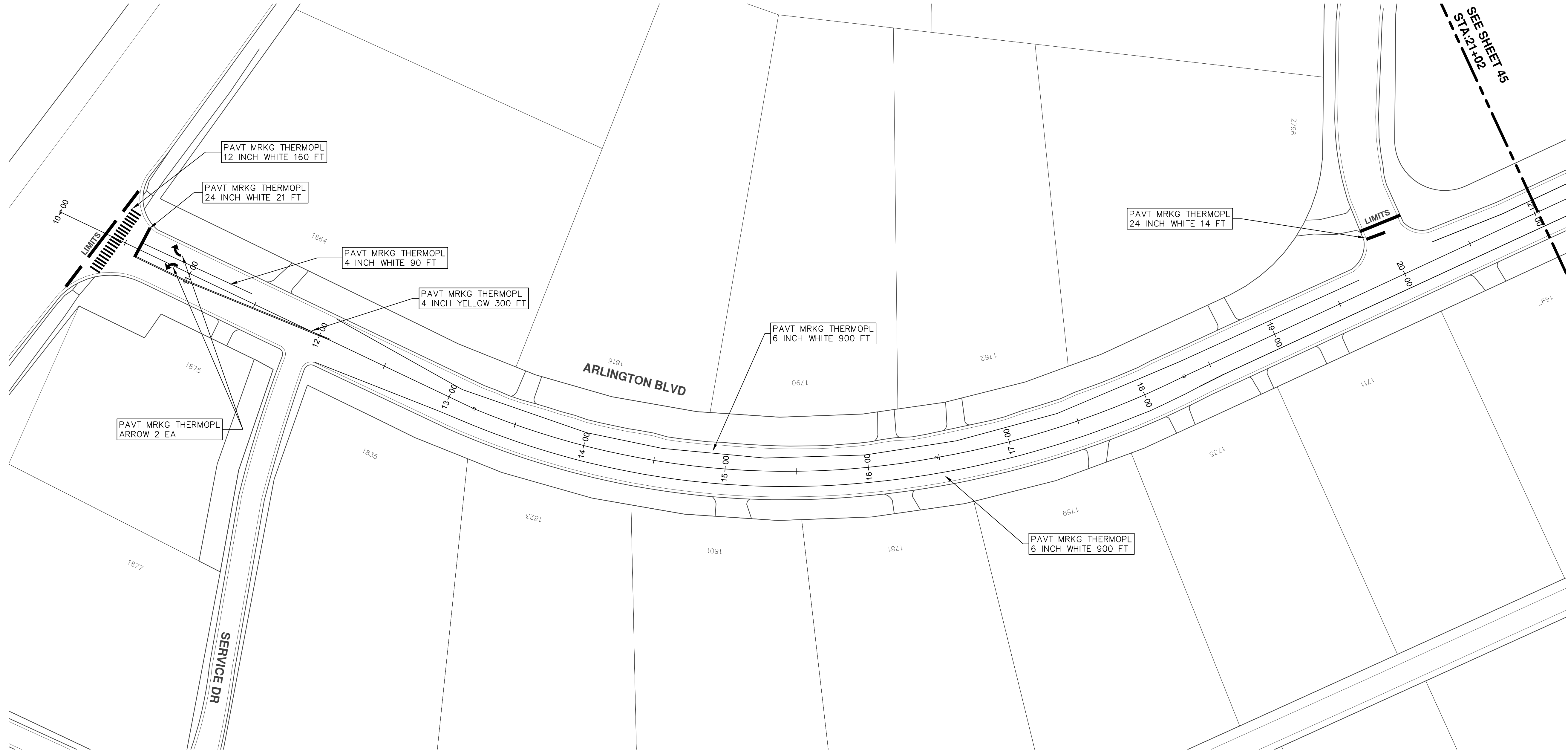
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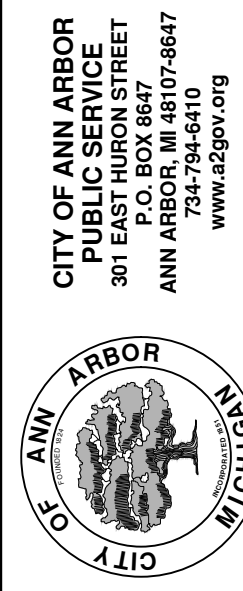
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00	BID SET	03-08-2017	AG.GS.RG	DAD



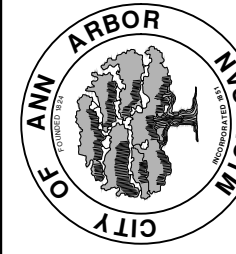
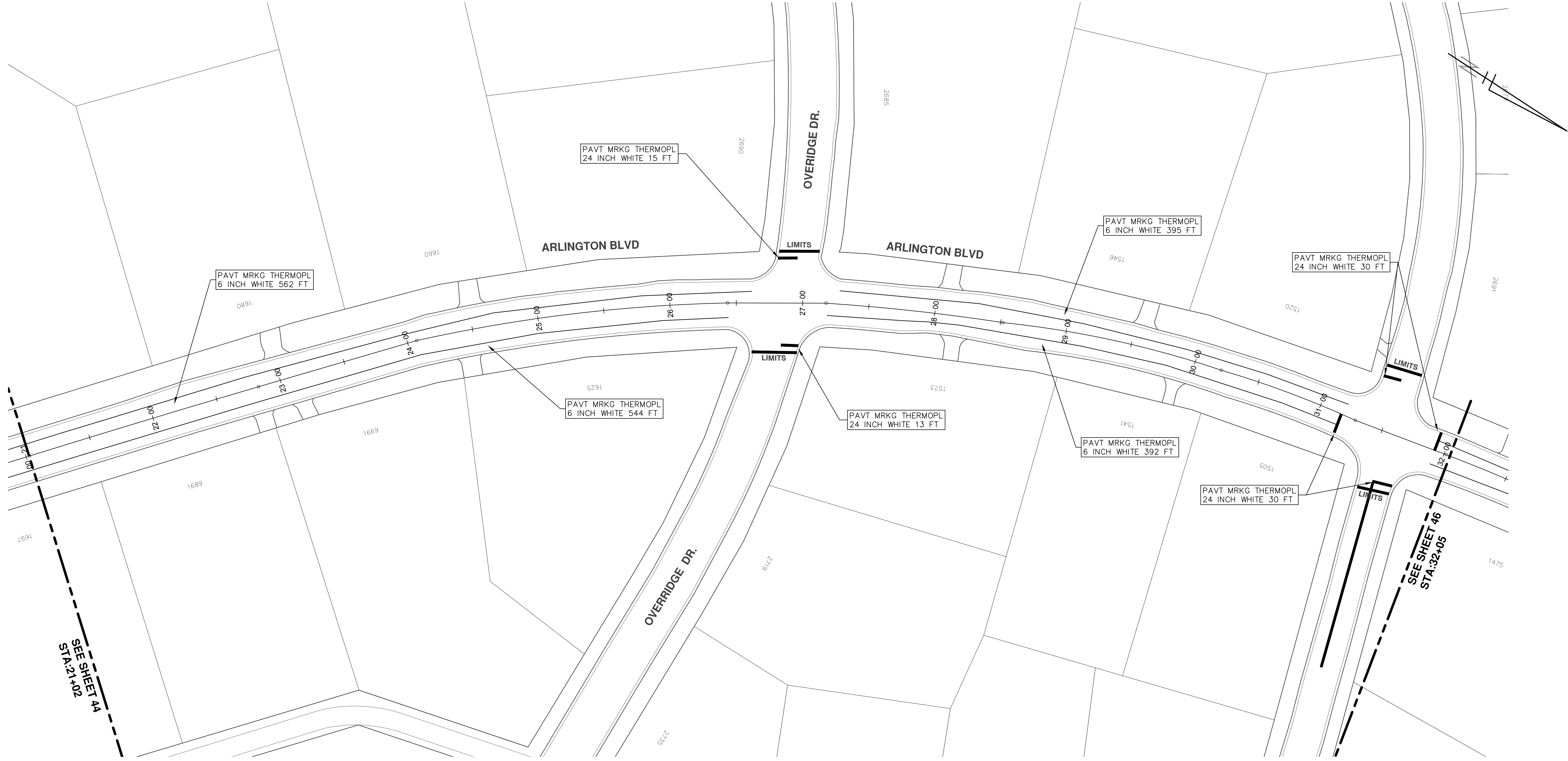


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STA. 21+02



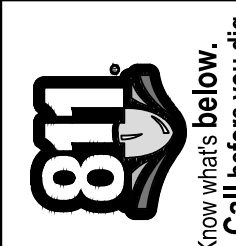
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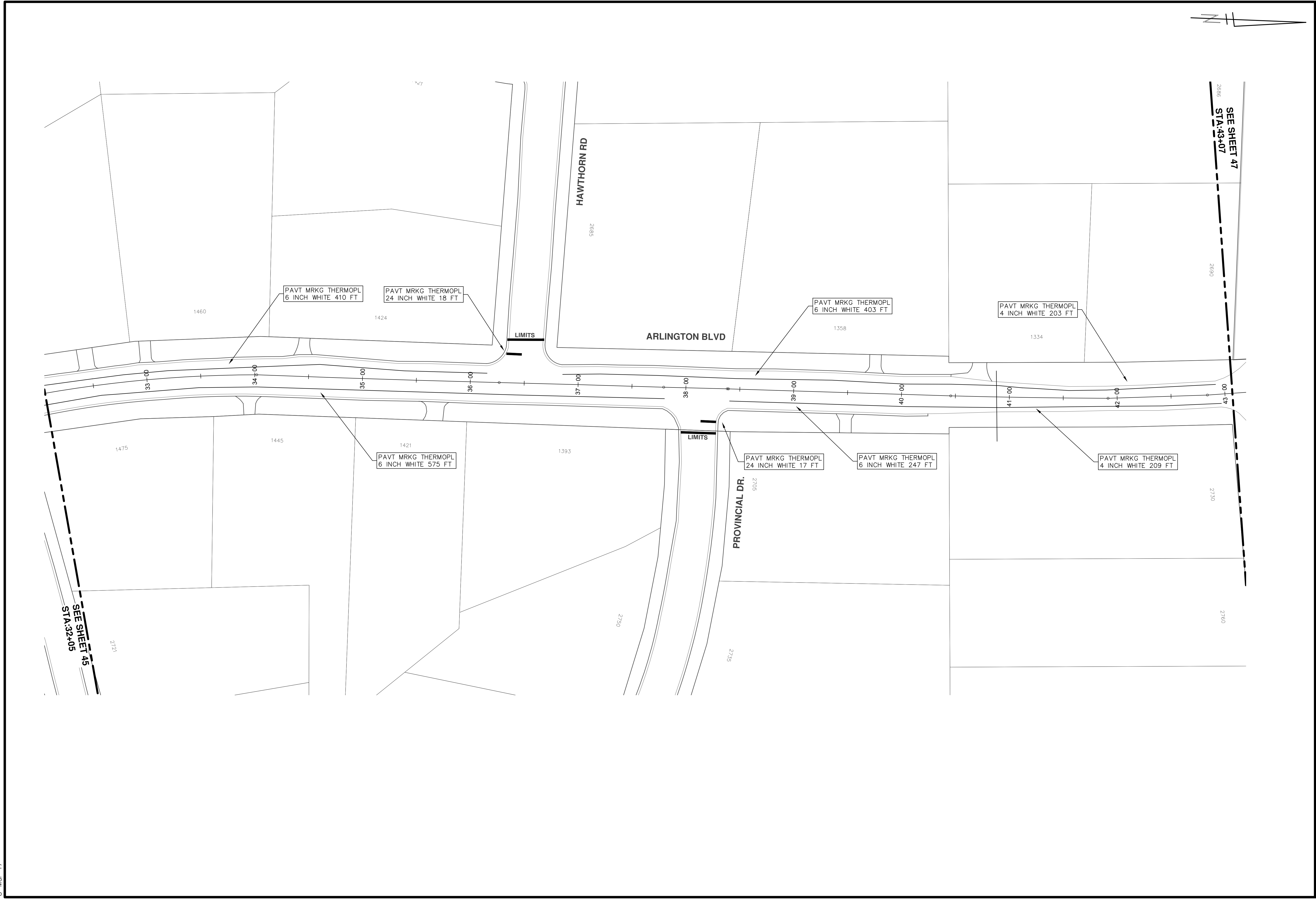




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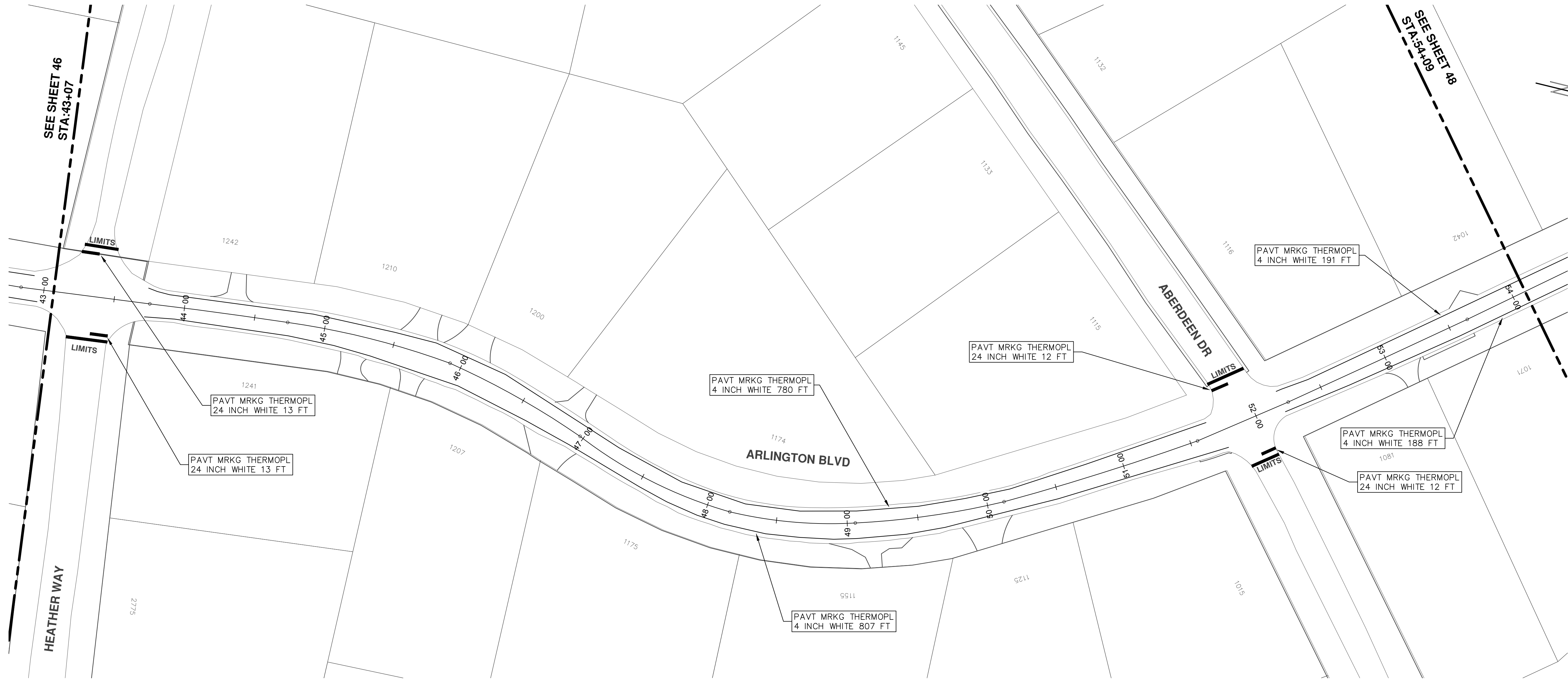




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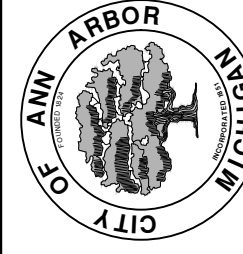
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<p>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2017 ARLINGTON BOULEVARD PAVEMENT MARKINGS</p>		<p>City of Ann Arbor Public Service 301 East Huron Street Ann Arbor, MI 48106-1667 www.a2gov.org</p>	
<p>SCALE PLAN: 1"=80'</p>	<p>DRAWING No. 2017004-47</p>	<p>REV.</p>	<p>DESCRIPTION</p>
<p>SHEET No.</p>	<p>47 OF 136</p>	<p>00</p>	<p>BID SET</p>
<p>03-08-2017</p>	<p>DATE</p>	<p>AG.GSRG</p>	<p>DRAWN</p>
<p>DAD</p>	<p>CHECKED</p>	<p>AG.GSRG</p>	<p>DRAWN</p>
<p>03-08-2017</p>	<p>DATE</p>	<p>AG.GSRG</p>	<p>DRAWN</p>
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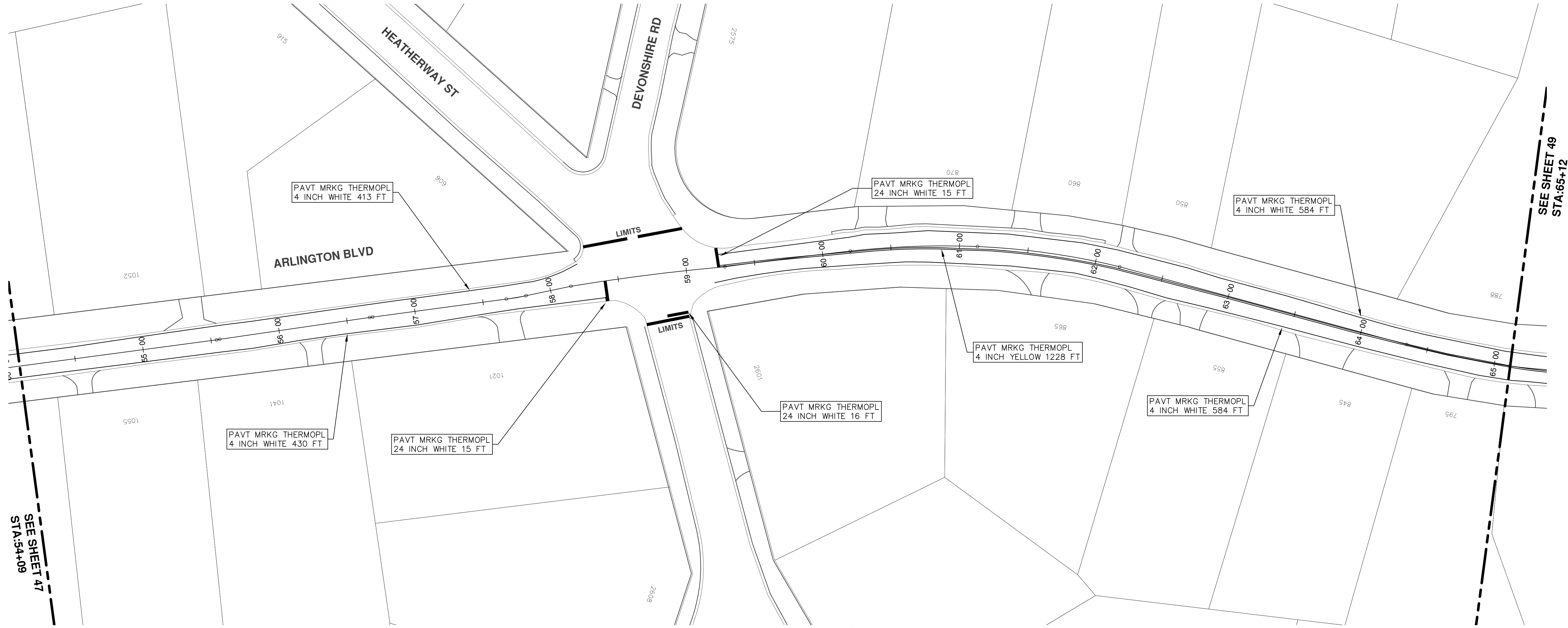
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SEE SHEET 49
STA:65+12

SEE SHEET 47
STA:54+09



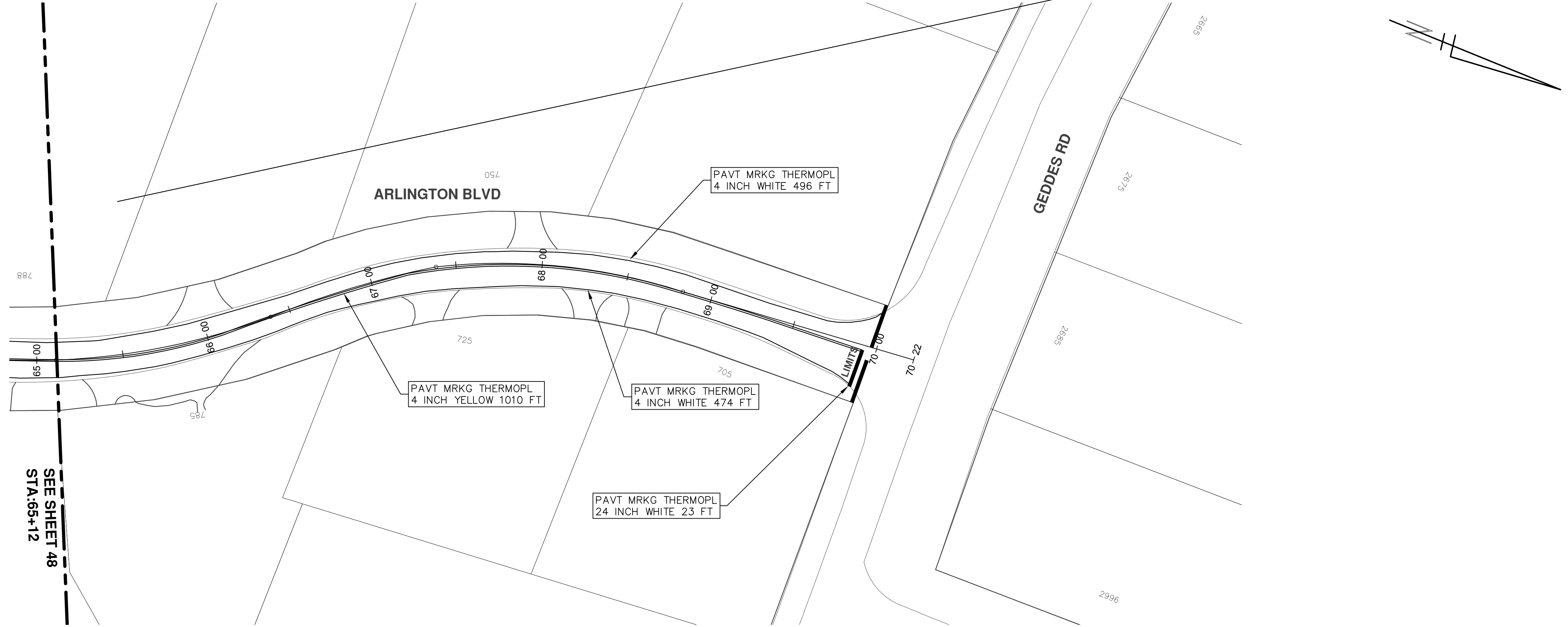
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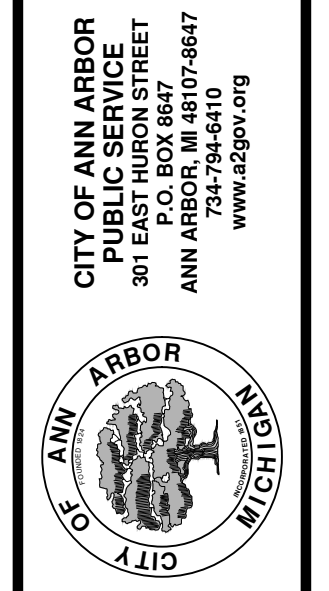


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
ARLINGTON BOULEVARD
PAVEMENT MARKINGS

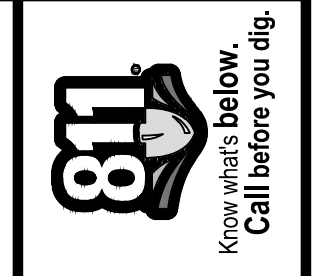
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DRAWING No. 2017004-49



SEE SHEET 48
STA. 65+12



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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 7 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.
- TEMPORARILY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT AREA, INCLUDING GATE AND MONUMENT BOXES.

PHASE II

- REPEAT ITEMS 1 THRU 5 IN THE ORDER SHOWN ABOVE.
- REMOVE 2 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.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (MAJOR STREETS) OVER ENTIRE STREET.
- 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
2030011	Dr Structure, Rem	Ea	12.000
2030015	Sewer, Rem, Less than 24 inch	Ft	120.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	486.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	281.000
2057011	Grading, Sidewalk	Syd	164.000
2057011	Grading, Sidewalk Ramp	Syd	117.000
2057021	Subgrade Undercutting, Type IIA	Cyd	311.000
2087050	Erosion Control, Inlet Filter	Ea	24.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	120.000
4030200	Dr Structure, 24 inch dia	Ea	12.000
4037001	Dr Structure Cover, Special	Ea	2.000
4037050	Dr Structure Cover, Type B, Modified	Ea	5.000
4037050	Dr Structure Cover, Type K, Modified	Ea	13.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	14.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,636.000
5010005	HMA Surface, Rem	Syd	54.000
5010057	HMA, 5E3	Ton	1,579.000
5010061	HMA, Approach	Ton	57.000
5017031	HMA, Wedging, 36A	Ton	8.000
6027021	Flowable Fill	Cyd	18.000
8037001	Detectable Warning Surface, Modified	Ft	90.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1050.000
8037010	Sidewalk with Integral Retaining Wall, 6 inch to 18 inch Height	Sft	20.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	1475.000
8110049	Pav Mrkg, Only Cold Plastic, Direction Arrow Sym, Bike	Ea	10.000
8110058	Pav Mrkg, Only Cold Plastic, Bike, Small Sym	Ea	10.000
8110153	Pav Mrkg, Sprayable Thermopl, 4 inch, White	Ft	206.000
8110154	Pav Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	7,708.000
8110155	Pav Mrkg, Sprayable Thermopl, 6 inch, White	Ft	9,246.000
8110197	Pav Mrkg, Thermopl, 6 inch, Crosswalk	Ft	725.000
8110218	Pav Mrkg, Thermopl, 24 inch, Stop Bar	Ft	233.000
8117001	Pav Mrkg, Thermopl, 24 inch, Crosswalk	Ft	184.000
8117050	Pav Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	3.000
8117050	Pav Mrkg, Thermopl, Only	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	16.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	16.000
8120140	Lighted Arrow, Type C, Furn	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	172.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	172.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	3.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	3.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	735.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	735.000
8127050	No Parking Sign	Ea	61.000
8167011	Slope Restoration	Syd	179.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement
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
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
CP	• Driveway Opening, Conc, Det M, Modified • 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
+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	Total
40.0	D3-1	Street Name Sign	160.000
1.0	M4-10L	Detour Arrow (Left) Sign	6.000
1.0	M4-10R	Detour Arrow (Right) Sign	6.000
1.0	M4-8a	End Detour Sign	3.000
5.0	M4-9L	Detour Sign (w/Left Arrow)	5.000
2.0	M4-9R	Detour Sign (w/Right Arrow)	5.000
7.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000
4.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500
11.0	R6-1L	One Way (Left) Sign	3.000
11.0	R6-1R	One Way (Right) Sign	3.000
4.0	SP-1	Special Sign	20.000
14.0	W20-1	Road Work Ahead Sign	9.000
1.0	W20-2	Detour Ahead Sign	9.000
6.0	W20-3	Road Closed Ahead Sign	9.000
1.0	W20-4	One Lane Road Sign ("One Lane Road Ahead")	9.000
		TOTAL	639.000



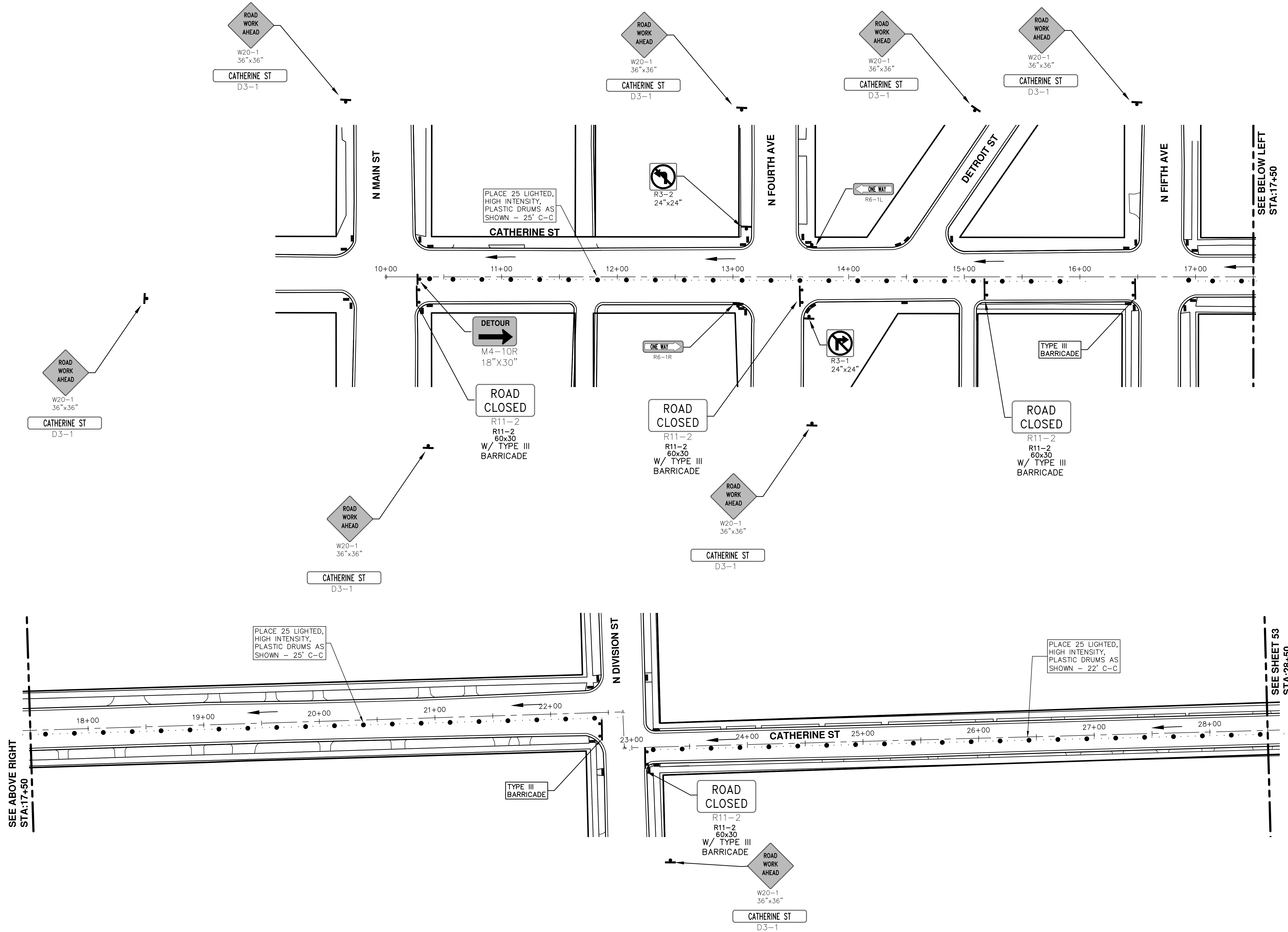
PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

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ANNUAL STREET RESURFACING - 2017
 CATHERINE STREET
 TRAFFIC CONTROL

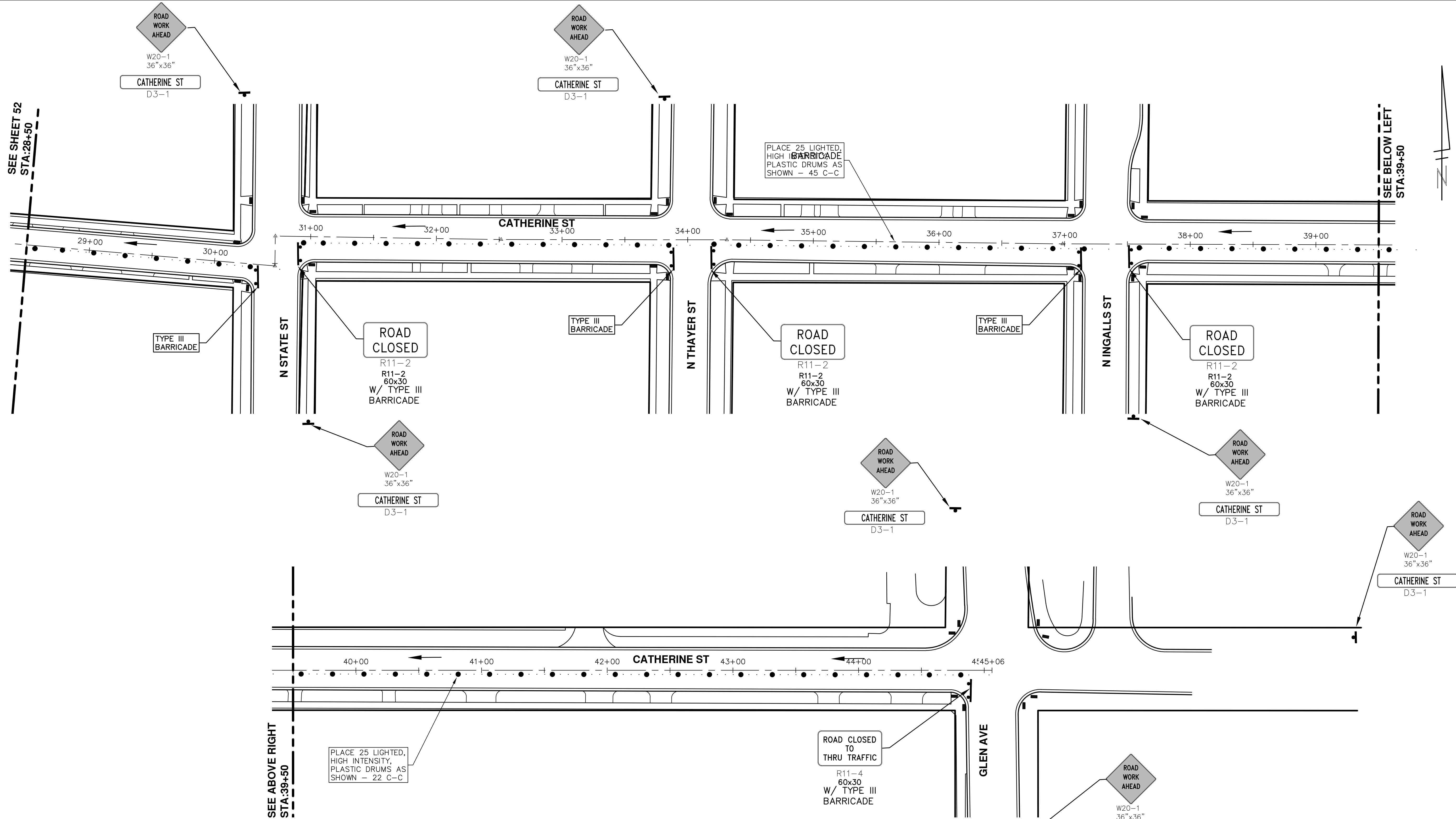
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 CATHERINE STREET
 TRAFFIC CONTROL

SCALE PLAN: #####
 DRAWING No. 2017004-54

811
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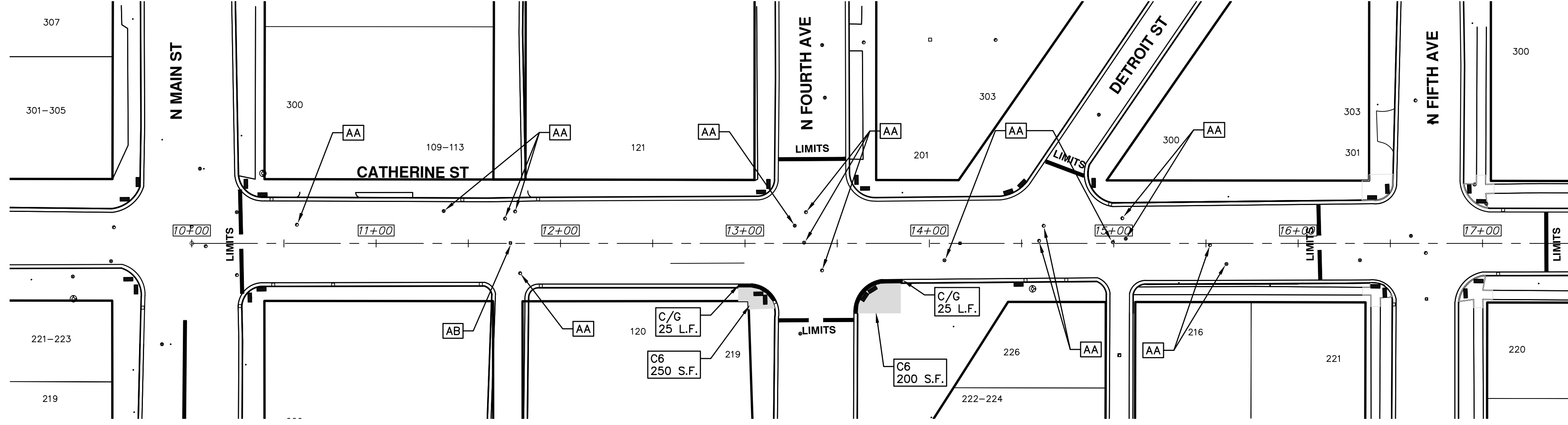
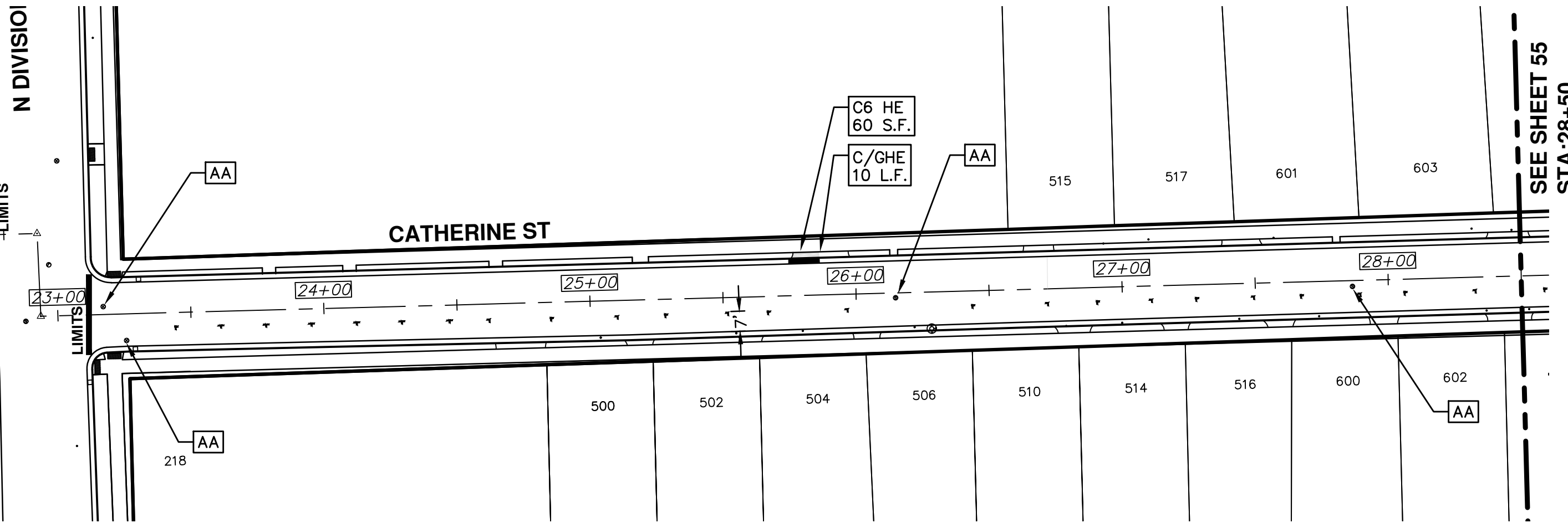
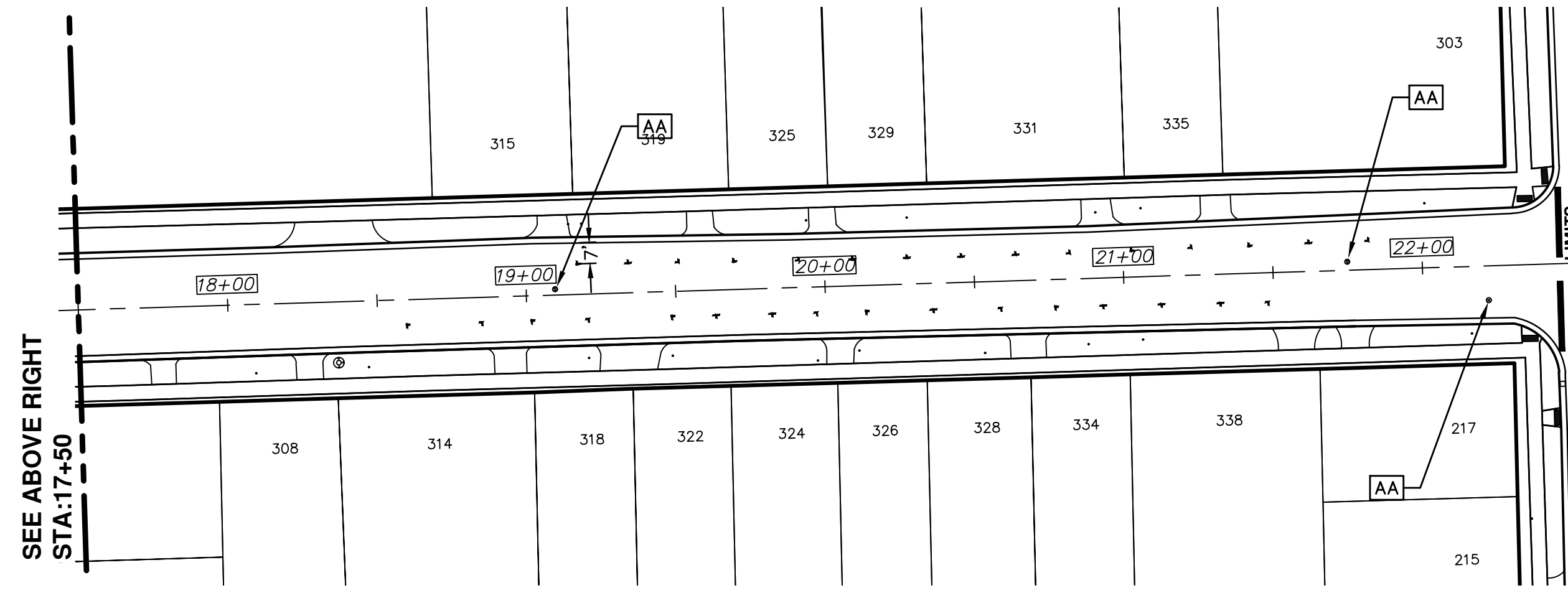
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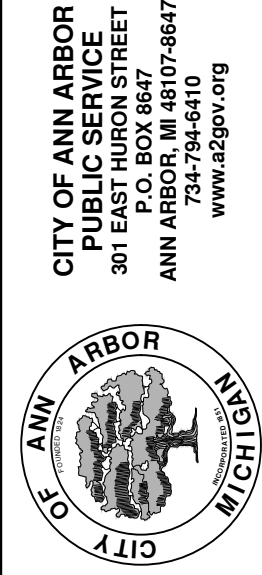
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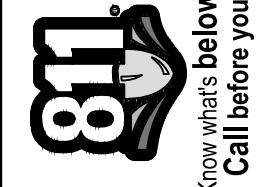


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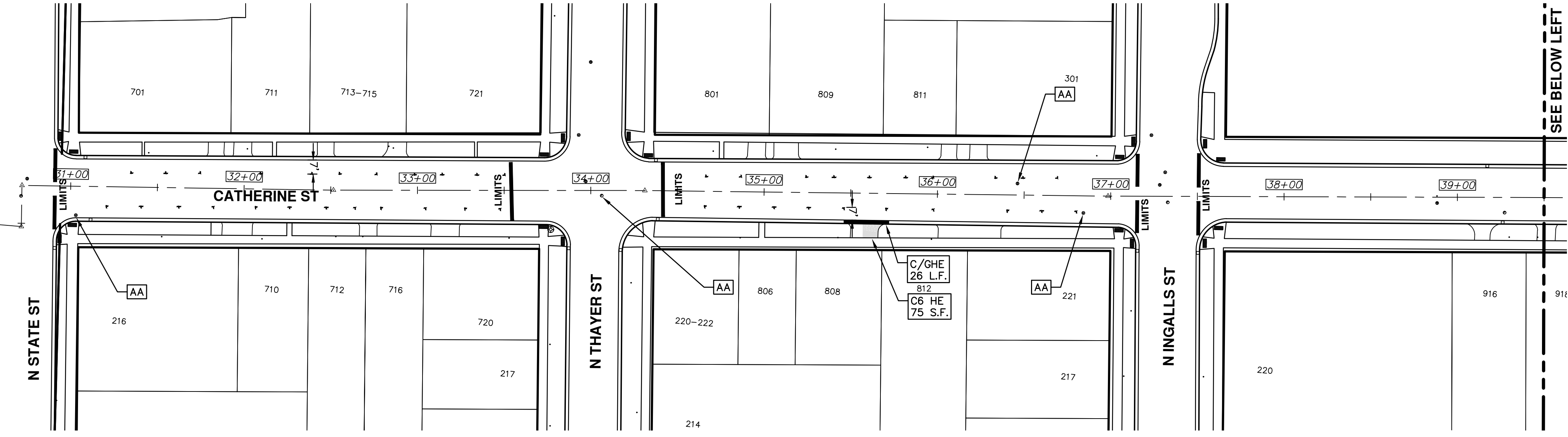
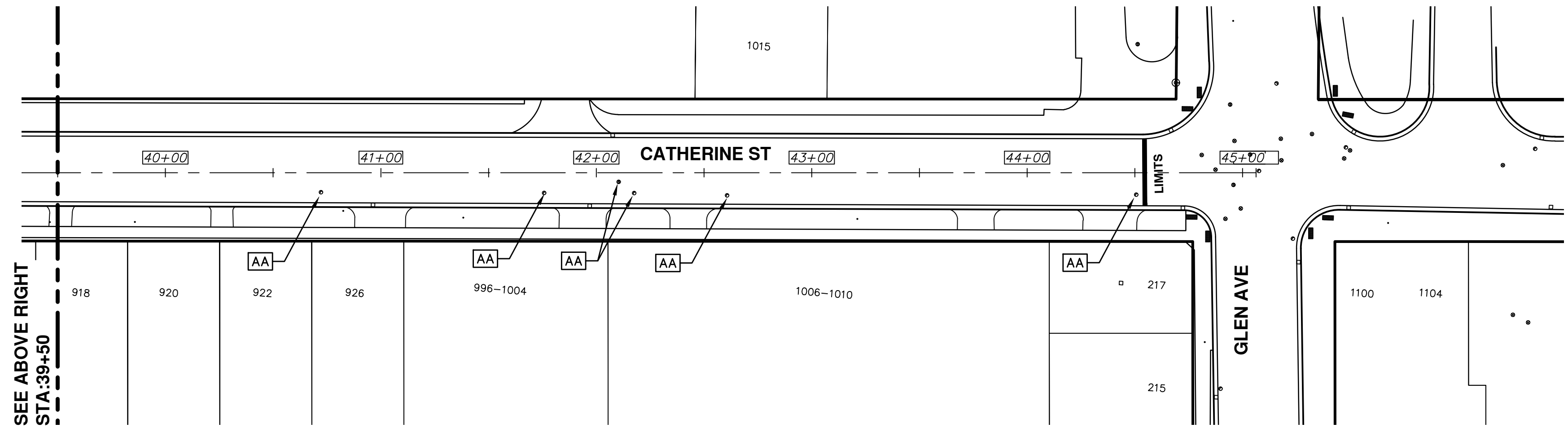
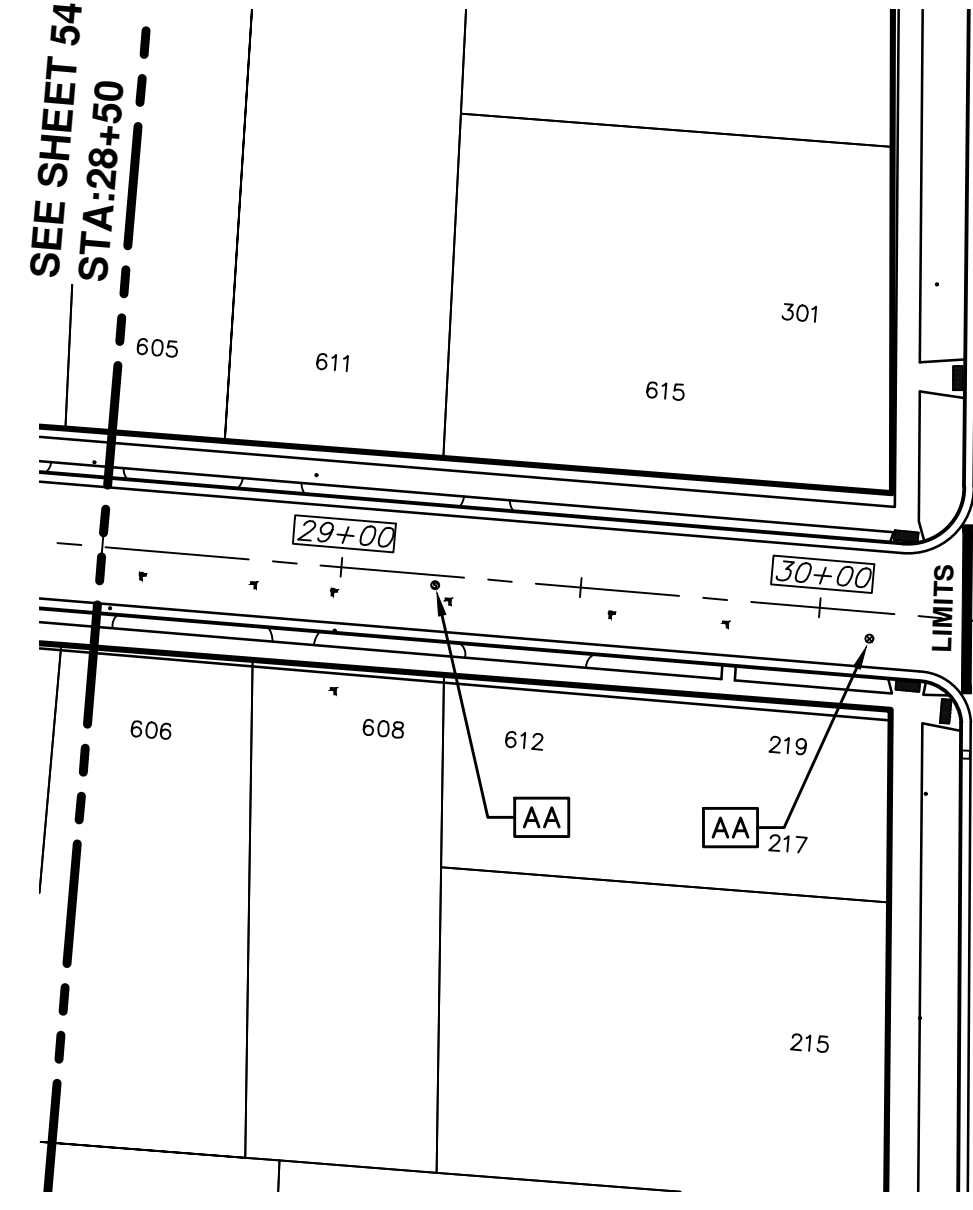
ANNUAL STREET RESURFACING - 2017
 CATHERINE STREET
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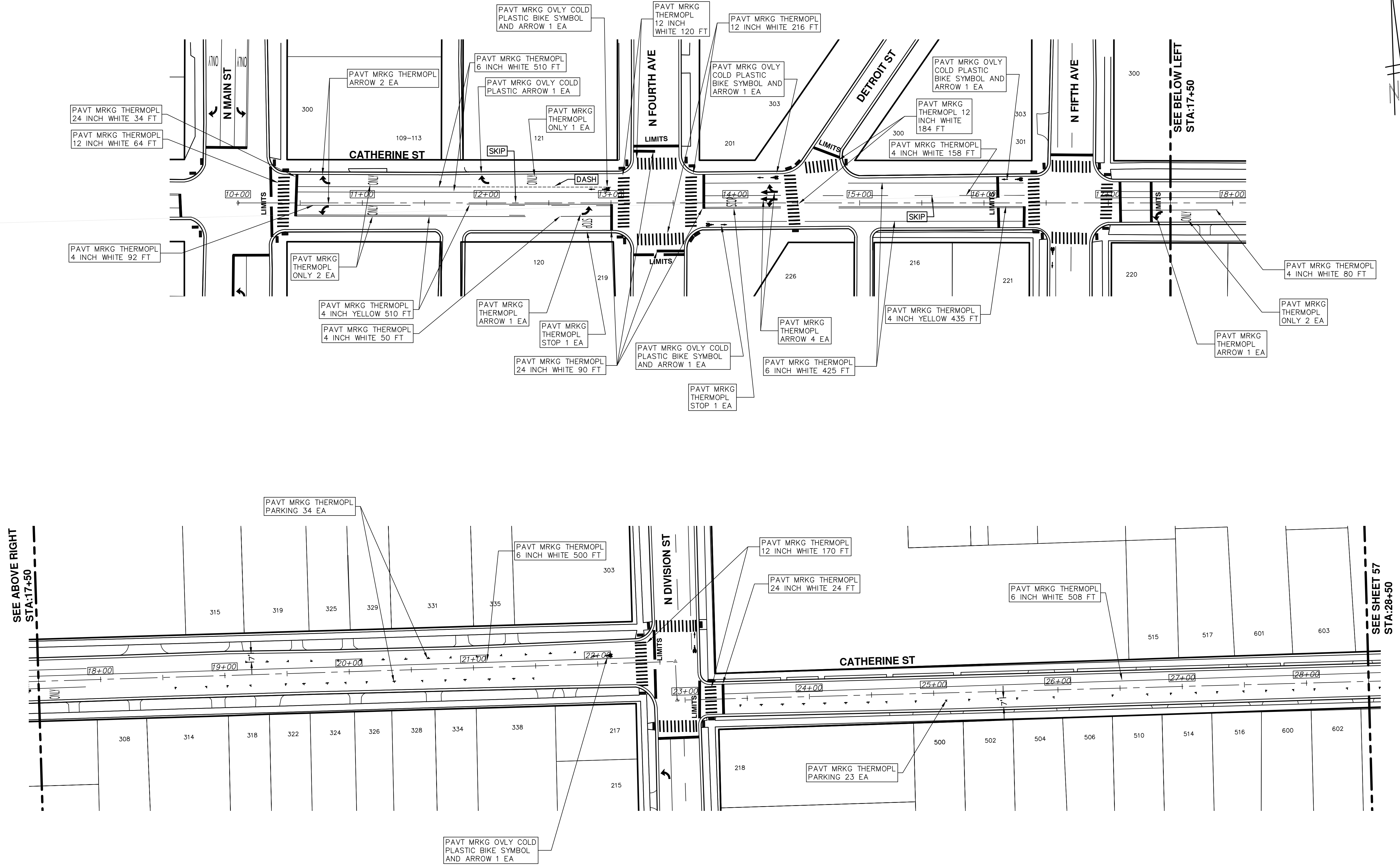
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STA:17+50

SEE SHEET 57
STA:28+50



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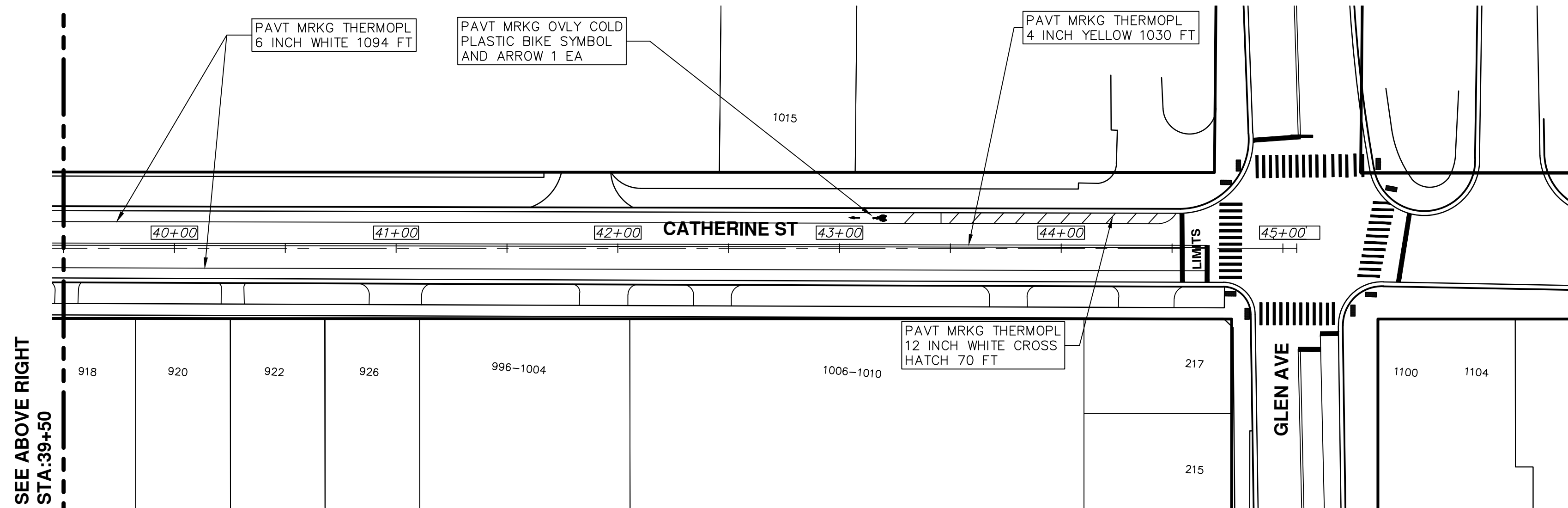
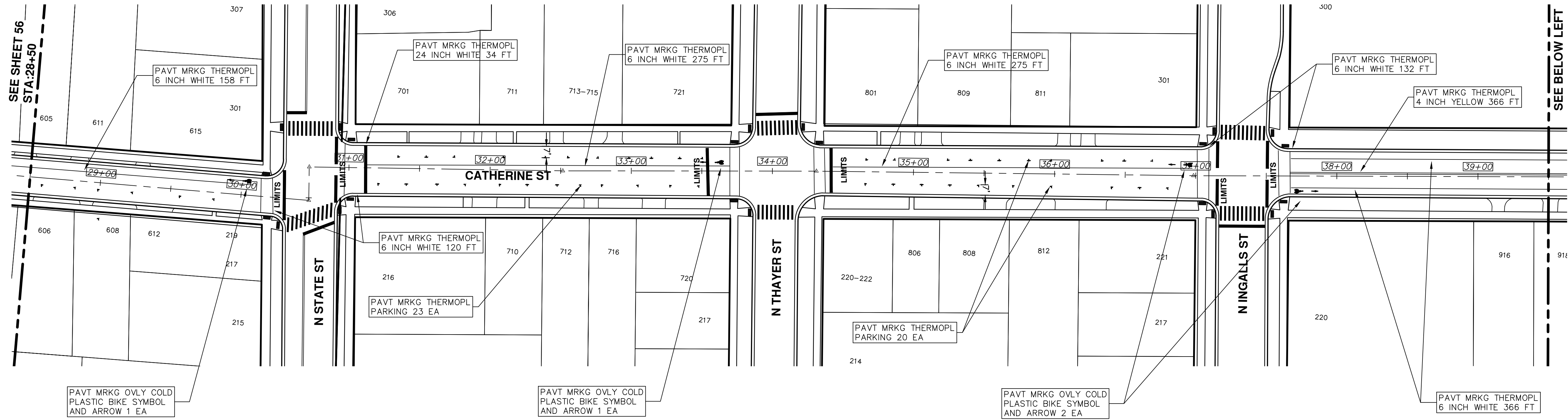
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PAVEMENT MARKINGS

SCALE PLAN: 1"=80'
DRAWING No. 2017004-57

SHEET No. 57 OF 136

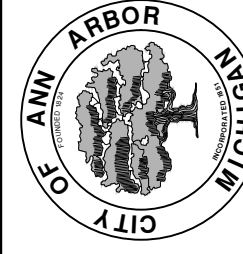
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.GSRG	DAD

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - Catherine Street.dwg Dwg Created: 15-Dec-16 - _o2_standard bw.stb - Plot Date: 8-Mar-17



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.OS.RG	DAD

CITY OF ANN ARBOR
PUBLIC SERVICE
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
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 7 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.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT AREA, INCLUDING GATE AND MONUMENT BOXES.

PHASE II

- REPEAT ITEMS 1 THRU 5 IN THE ORDER SHOWN SHOWN ABOVE.
- REMOVE 2 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.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (MAJOR STREETS) OVER ENTIRE STREET.
- 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
2030011	Dr Structure, Rem	Ea	12.000
2030015	Sewer, Rem, Less than 24 inch	Ft	120.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	486.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	281.000
2057011	Grading, Sidewalk	Syd	164.000
2057011	Grading, Sidewalk Ramp	Syd	117.000
2057021	Subgrade Undercutting, Type IIA	Cyd	311.000
2087050	Erosion Control, Inlet Filter	Ea	24.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	120.000
4030200	Dr Structure, 24 inch dia	Ea	12.000
4037001	Dr Structure Cover, Special	Ea	2.000
4037050	Dr Structure Cover, Type B, Modified	Ea	5.000
4037050	Dr Structure Cover, Type K, Modified	Ea	13.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	14.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,636.000
5010005	HMA Surface, Rem	Syd	54.000
5010057	HMA, 5E3	Ton	1,579.000
5010061	HMA, Approach	Ton	57.000
5017031	HMA, Wedging, 36A	Ton	8.000
6027021	Flowable Fill	Cyd	18.000
8037001	Detectable Warning Surface, Modified	Ft	90.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1050.000
8037010	Sidewalk with Integral Retaining Wall, 6 inch to 18 inch Height	Sft	20.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	1475.000
8110049	Pav Mrkg, Ovy Cold Plastic, Direction Arrow Sym, Bike	Ea	10.000
8110058	Pav Mrkg, Ovy Cold Plastic, Bike, Small Sym	Ea	10.000
8110153	Pav Mrkg, Sprayable Thermopl, 4 inch, White	Ft	206.000
8110154	Pav Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	7,708.000
8110155	Pav Mrkg, Sprayable Thermopl, 6 inch, White	Ft	9,246.000
8110197	Pav Mrkg, Thermopl, 6 inch, Crosswalk	Ft	725.000
8110218	Pav Mrkg, Thermopl, 24 inch, Stop Bar	Ft	233.000
8117001	Pav Mrkg, Thermopl, 24 inch, Crosswalk	Ft	184.000
8117050	Pav Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	3.000
8117050	Pav Mrkg, Thermopl, Only	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	16.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	16.000
8120140	Lighted Arrow, Type C, Furn	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	172.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	172.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	3.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	3.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	735.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	735.000
8127050	No Parking Sign	Ea	61.000
8167011	Slope Restoration	Syd	179.000

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

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

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

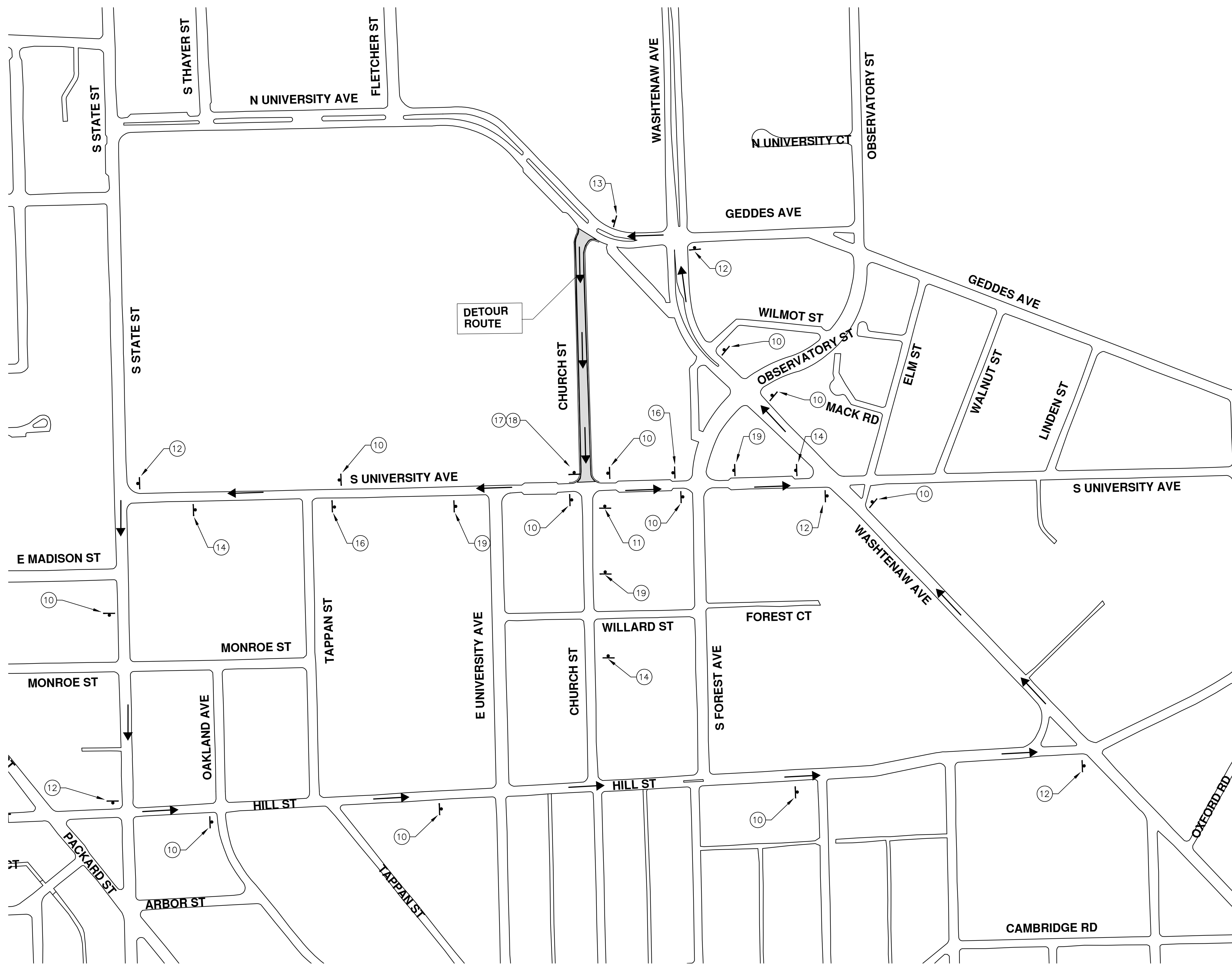


PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

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



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

SCALE PLAN: 1" = 200'
DRAWING No. 2017004-60

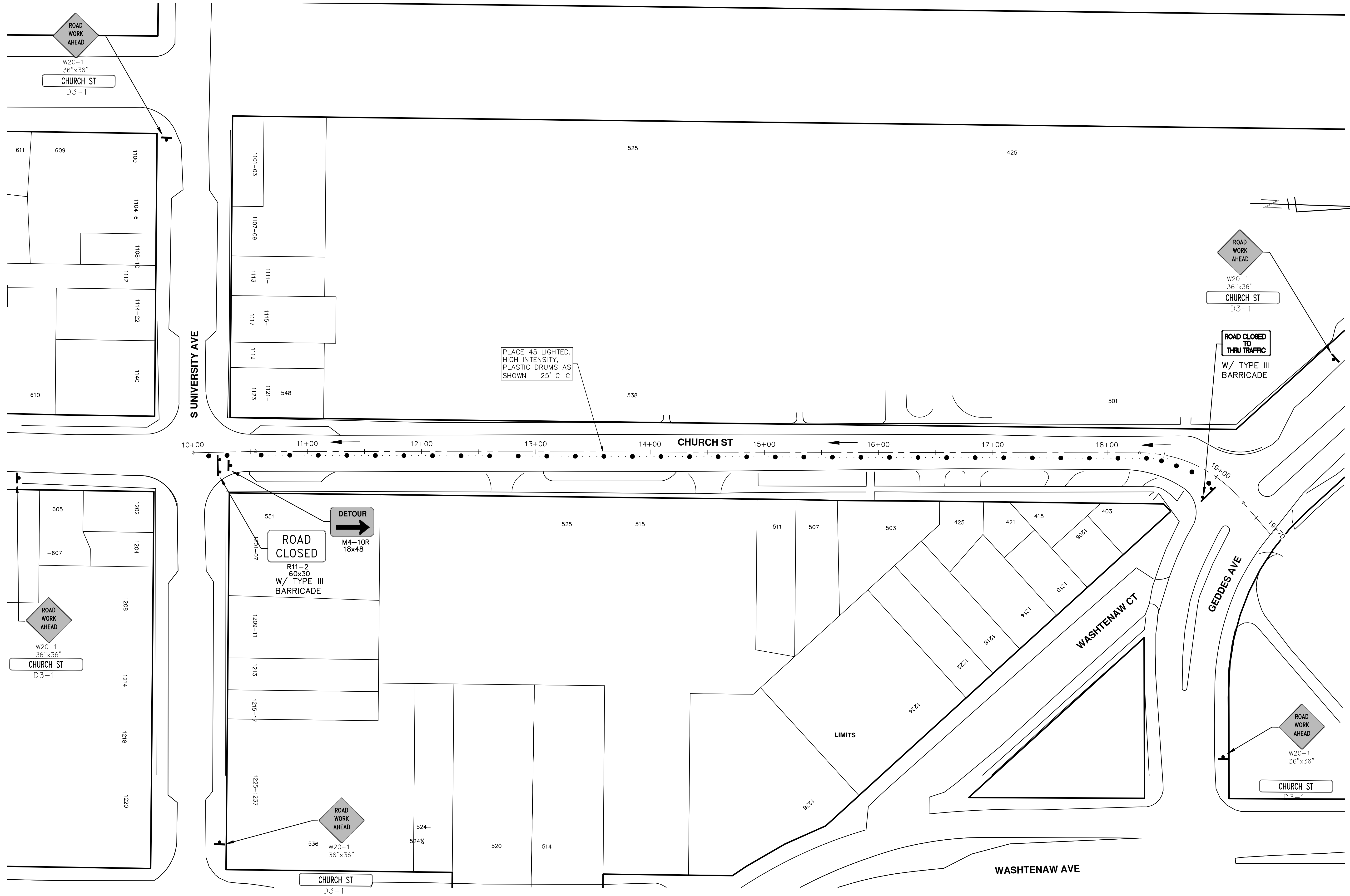
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Know what's below.
Call before you dig.

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CITY OF ANN ARBOR
MICHIGAN

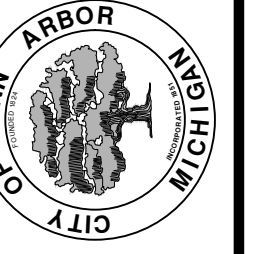
REV.	DATE	DESCRIPTION
00	03-08-2017	BID SET
		DRAWN
		CHECKED

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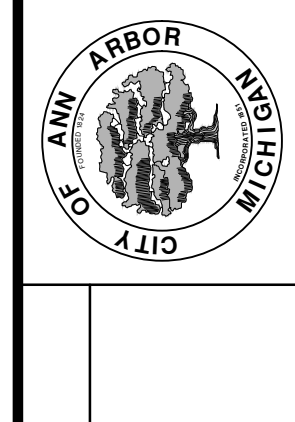
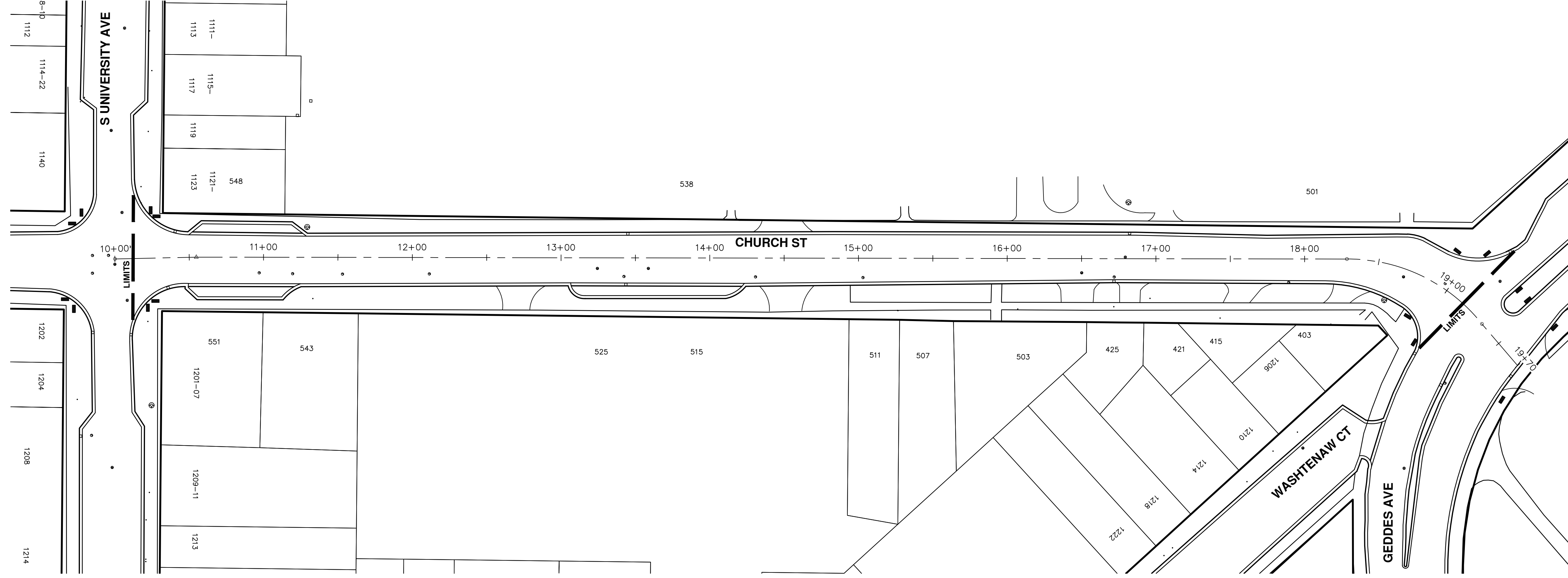
REV.	DATE	DESCRIPTION
00	03-08-2017	BID SET
		AG.GSRG DRAWN
		DAD CHECKED

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



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

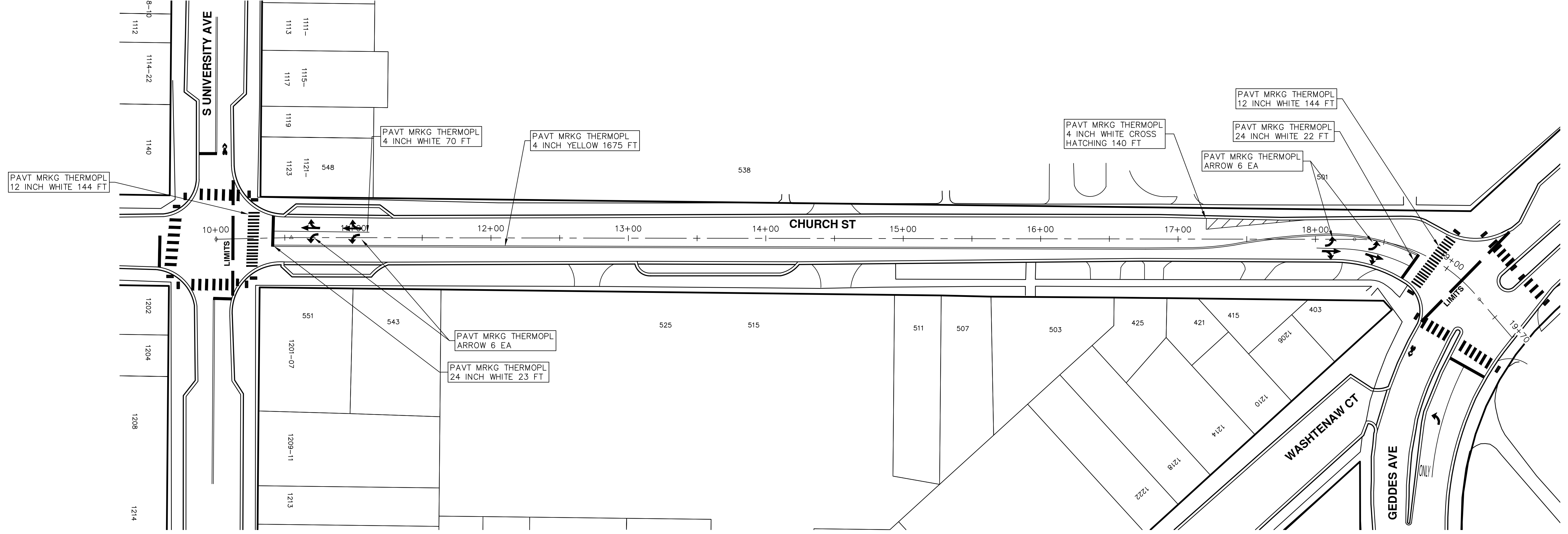
SCALE PLAN: 1" = 40'
DRAWING No. 2017004-61



REV.	DESCRIPTION	DATE	AG/GSRG	DRAWN	CHECKED
00	BID SET	03-08-2017	AG/GSRG	DRAWN	CHECKED



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	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
CHURCH STREET
PAVEMENT MARKINGS

SHEET No. **63 OF 136**
SCALE PLAN: ###
DRAWING No. **2017004-63**



CITY OF ANN ARBOR PROJECT MANAGEMENT

LOCATION: GREEN ROAD NON-MOTORIZED PATH

ITB No. 4477 FILE No. 2017004

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 7 THRU 15 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.

PHASE II

- REPEAT ITEMS 1 THRU 5 IN THE ORDER SHOWN ABOVE.
- REMOVE 3.5 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.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION.
- CLEAN PAVEMENT AND PLACE 2.0 INCH LEVELING COURSE HMA MIX (MAJOR STREETS).
- CLEAN PAVEMENT AND PLACE 1.5 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.

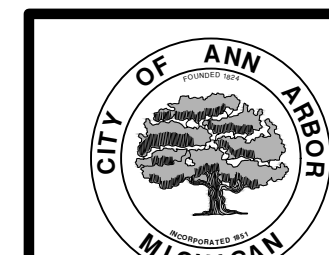
THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

QUANTITIES			
Item Code	Item Description	Units	Quantity
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	1,247.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	98.000
2057011	Grading, Sidewalk	Syd	56.000
2057011	Grading, Sidewalk Ramp	Syd	42.000
2057021	Subgrade Undercutting, Type IIA	Cyd	1,689.000
2087050	Erosion Control, Inlet Filter	Ea	23.000
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	3.000
4037050	Dr Structure Cover, Type K, Modified	Ea	6.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	21.000
4037050	Dr Structure, Point	Ea	4.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	17.000
5010003	Cold Milling HMA Surface	Ton	3,692.000
5010005	HMA Surface, Rem	Syd	427.000
5010051	HMA, 4E3	Ton	1,909.000
5010057	HMA, 5E3	Ton	1,431.000
5010061	HMA, Approach	Ton	352.000
6027021	Flowable Fill	Cyd	46.185
8027001	Curb and Gutter, Conc	Ft	1,250.000
8037001	Detectable Warning Surface, Modified	Ft	35.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	375.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	500.000
8110049	Pav Mrkg, Ovy Cold Plastic, Direction Arrow Sym, Bike	Ea	8.000
8110058	Pav Mrkg, Ovy Cold Plastic, Bike, Small Sym	Ea	8.000
8110153	Pav Mrkg, Sprayable Thermopl, 4 inch, White	Ft	1,108.000
8110154	Pav Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	10,421.000
8110155	Pav Mrkg, Sprayable Thermopl, 6 inch, White	Ft	4,259.000
8110197	Pav Mrkg, Thermopl, 6 inch, Crosswalk	Ft	235.000
8110212	Pav Mrkg, Thermopl, 12 inch, Cross Hatching, White	Ft	225.000
8110218	Pav Mrkg, Thermopl, 24 inch, Stop Bar	Ft	56.000
8117001	Pav Mrkg, Thermopl, 24 inch, Crosswalk	Ft	296.000
8117050	Pav Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	3.000
8117050	Pav Mrkg, Thermopl, Only	Ea	3.000
8117050	Pav Mrkg, Thermopl, Rt Turn Arrow Sym	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	12.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	12.000
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	160.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	160.000
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	338.500
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	338.500
8167011	Slope Restoration	Syd	458.000

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

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

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



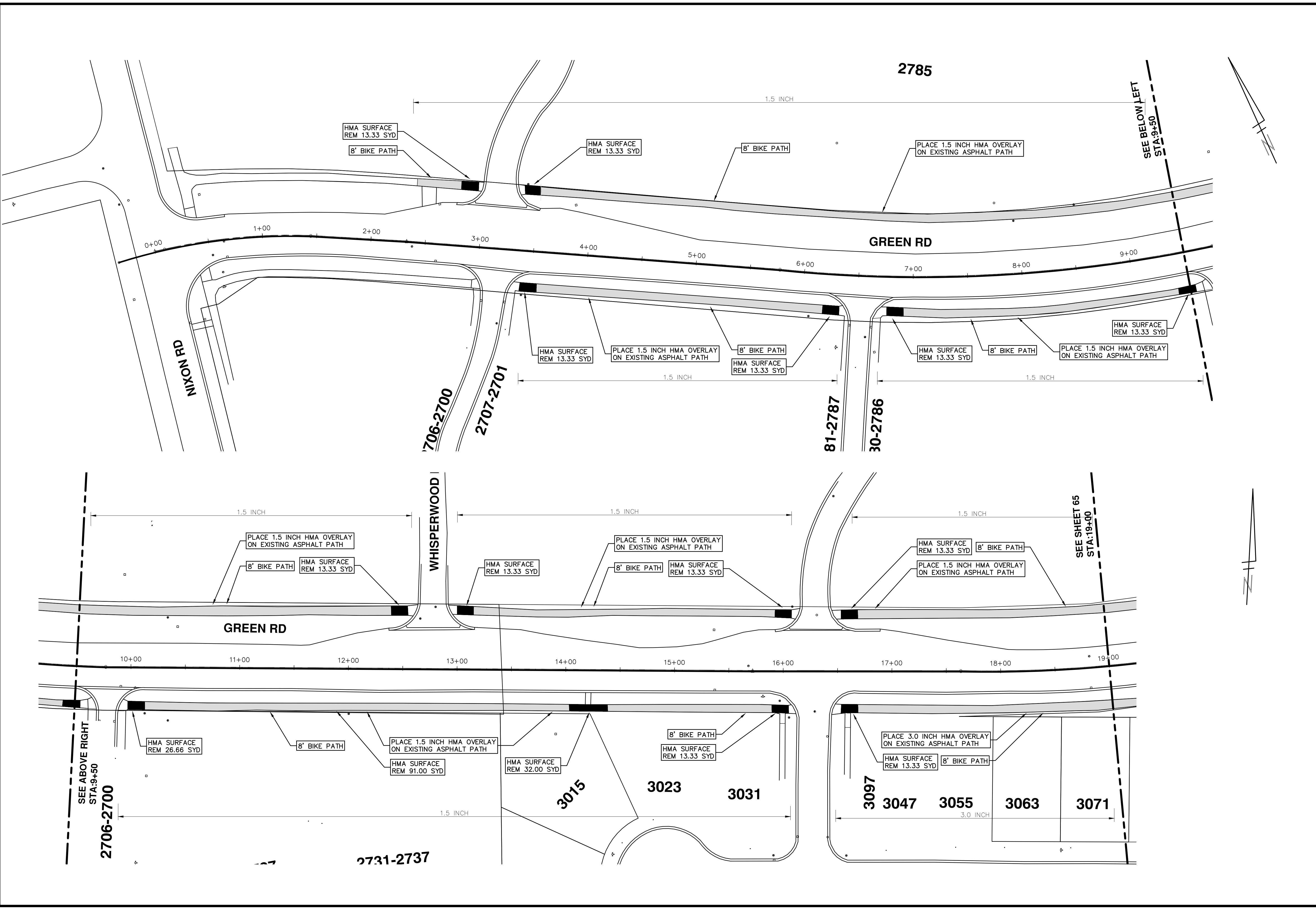
PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
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ANNUAL STREET RESURFACING - 2017
GREEN ROAD NON-MOTORIZED PATH

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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

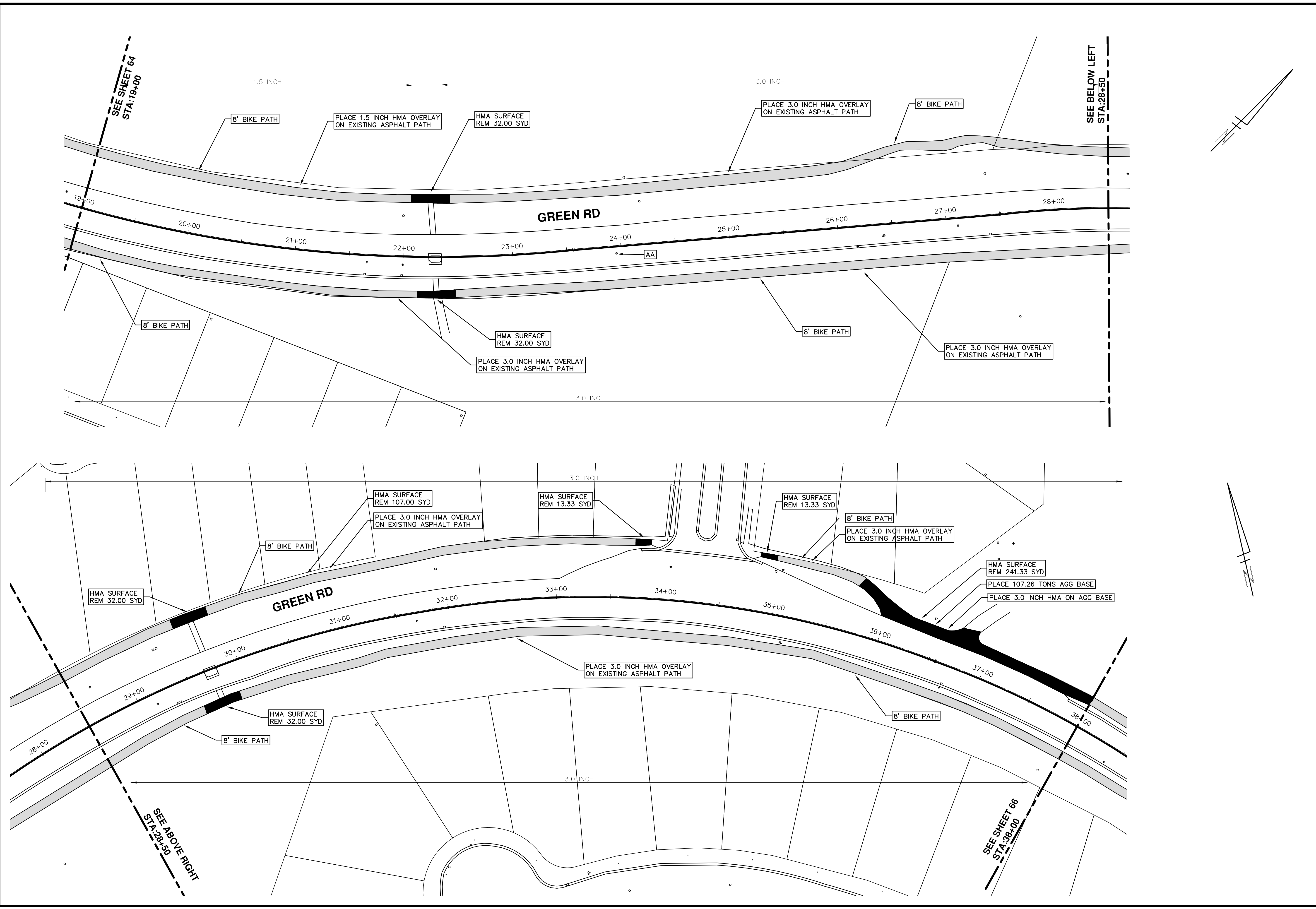
STA. 0+00 - STA. 19+00

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 Know what's below.
 Call Before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
02	TURN G-TBLK-REV LAY ON AND EDIT TEXT		AG.GSRG	DAD
01	TURN G-TBLK-REV LAY ON AND EDIT TEXT	03-08-2017	AG.GSRG	DAD
00	BID SET			

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ANNUAL STREET RESURFACING - 2017
 GREEN ROAD NON-MOTORIZED PATH
 STA. 19+00 - STA. 38+00

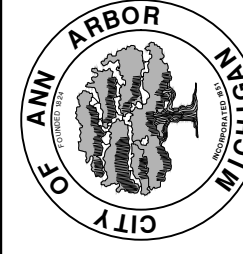
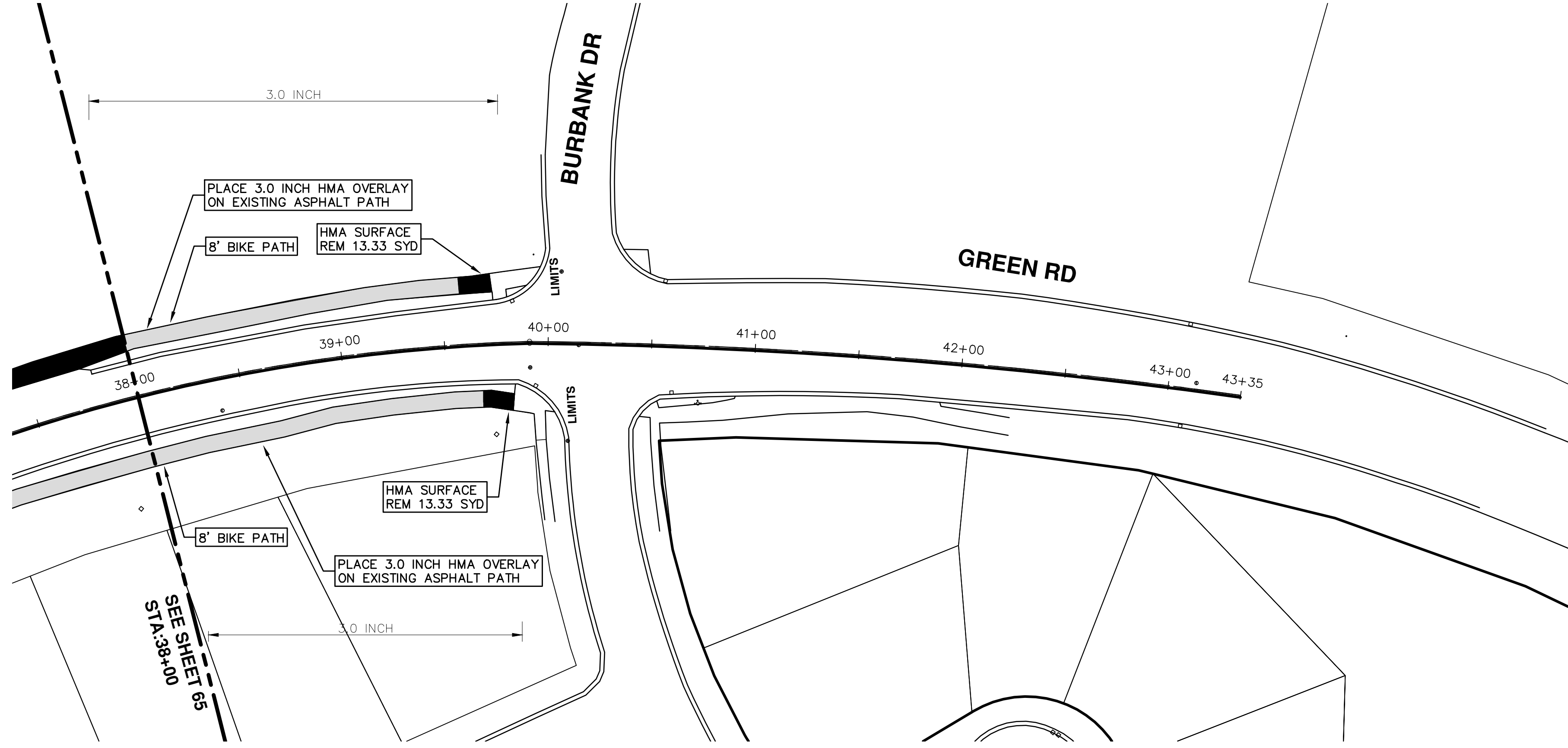
811
 Know what's below.
 Call Before you dig.

REV.	DESCRIPTION	DATE	BY	BY	BY	BY	BY
02	TURN G-TBLK-REV LAY ON AND EDIT TEXT						
01	TURN G-TBLK-REV LAY ON AND EDIT TEXT						
00	BID SET	03-08-2017	AG.GSRG	DAD	DAD	DAD	DAD

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

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

SHEET No. **66 OF 136**



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REV.	DESCRIPTION	DATE	BY	CHECKED
02	TURN G--TBK--REV LAY ON AND EDIT TEXT		BY	BY
01	TURN G--TBK--REV LAY ON AND EDIT TEXT		BY	BY
00	BID SET	03-08-2017	AG.GSRG	DAD

DATE	BY	CHECKED
	BY	BY
	BY	BY
	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 7 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.
- TEMPORARILY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT AREA, INCLUDING GATE AND MONUMENT BOXES.

PHASE II

- REPEAT ITEMS 1 THRU 5 IN THE ORDER SHOWN ABOVE.
- REMOVE 2 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.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (MAJOR STREETS) OVER ENTIRE STREET.
- 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
2030011	Dr Structure, Rem	Ea	12.000
2030015	Sewer, Rem, Less than 24 inch	Ft	120.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	486.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	281.000
2057011	Grading, Sidewalk	Syd	164.000
2057011	Grading, Sidewalk Ramp	Syd	117.000
2057021	Subgrade Undercutting, Type IIA	Cyd	311.000
2087050	Erosion Control, Inlet Filter	Ea	24.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	120.000
4030200	Dr Structure, 24 inch dia	Ea	12.000
4037001	Dr Structure Cover, Special	Ea	2.000
4037050	Dr Structure Cover, Type B, Modified	Ea	5.000
4037050	Dr Structure Cover, Type K, Modified	Ea	13.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	14.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,636.000
5010005	HMA Surface, Rem	Syd	54.000
5010057	HMA, 5E3	Ton	1,579.000
5010061	HMA, Approach	Ton	57.000
5017031	HMA, Wedging, 36A	Ton	8.000
6027021	Flowable Fill	Cyd	18.000
8037001	Detectable Warning Surface, Modified	Ft	90.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1050.000
8037010	Sidewalk with Integral Retaining Wall, 6 inch to 18 inch Height	Sft	20.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	1475.000
8110049	Pav Mrkg, Ovy Cold Plastic, Direction Arrow Sym, Bike	Ea	10.000
8110058	Pav Mrkg, Ovy Cold Plastic, Bike, Small Sym	Ea	10.000
8110153	Pav Mrkg, Sprayable Thermopl, 4 inch, White	Ft	206.000
8110154	Pav Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	7,708.000
8110155	Pav Mrkg, Sprayable Thermopl, 6 inch, White	Ft	9,246.000
8110197	Pav Mrkg, Thermopl, 6 inch, Crosswalk	Ft	725.000
8110218	Pav Mrkg, Thermopl, 24 inch, Stop Bar	Ft	233.000
8117001	Pav Mrkg, Thermopl, 24 inch, Crosswalk	Ft	184.000
8117050	Pav Mrkg, Thermopl, Lt Tum Arrow Sym	Ea	3.000
8117050	Pav Mrkg, Thermopl, Only	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Fum	Ea	16.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	16.000
8120140	Lighted Arrow, Type C, Fum	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120260	Plastic Drum, High Intensity, Lighted, Fum	Ea	172.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	172.000
8120330	Sign, Portable, Changeable Message, Fum	Ea	3.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	3.000
8120350	Sign, Type B, Temp, Prismatic, Fum	Sft	735.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	735.000
8127050	No Parking Sign	Ea	61.000
8167011	Slope Restoration	Syd	179.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • 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 • Dr Structure, Rem
DS	• Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet
PT	• Dr Structure, Point
RRA	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Fum • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Fum • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

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



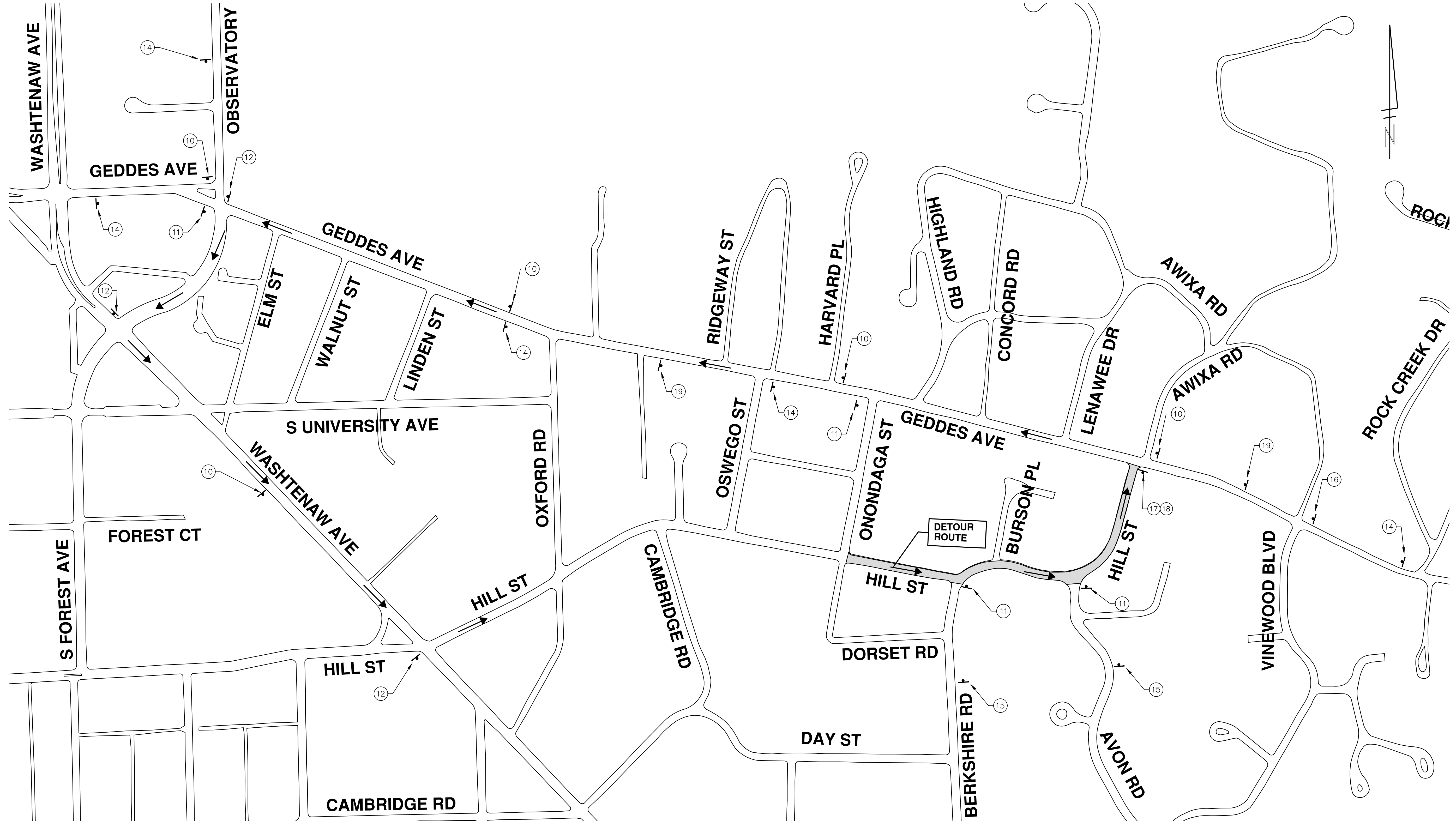
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ANNUAL STREET RESURFACING - 2017
HILL STREET
DRAWING No. 2017004-68

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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"	18	WRONG WAY	R5-1A 42"x30"
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"	19	ROAD CLOSED AHEAD	W20-3 36"x36"
													HILL ST. D3-1	

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ANNUAL STREET RESURFACING - 2017
HILL STREET
DETOUR

SHEET No. 69 OF 136

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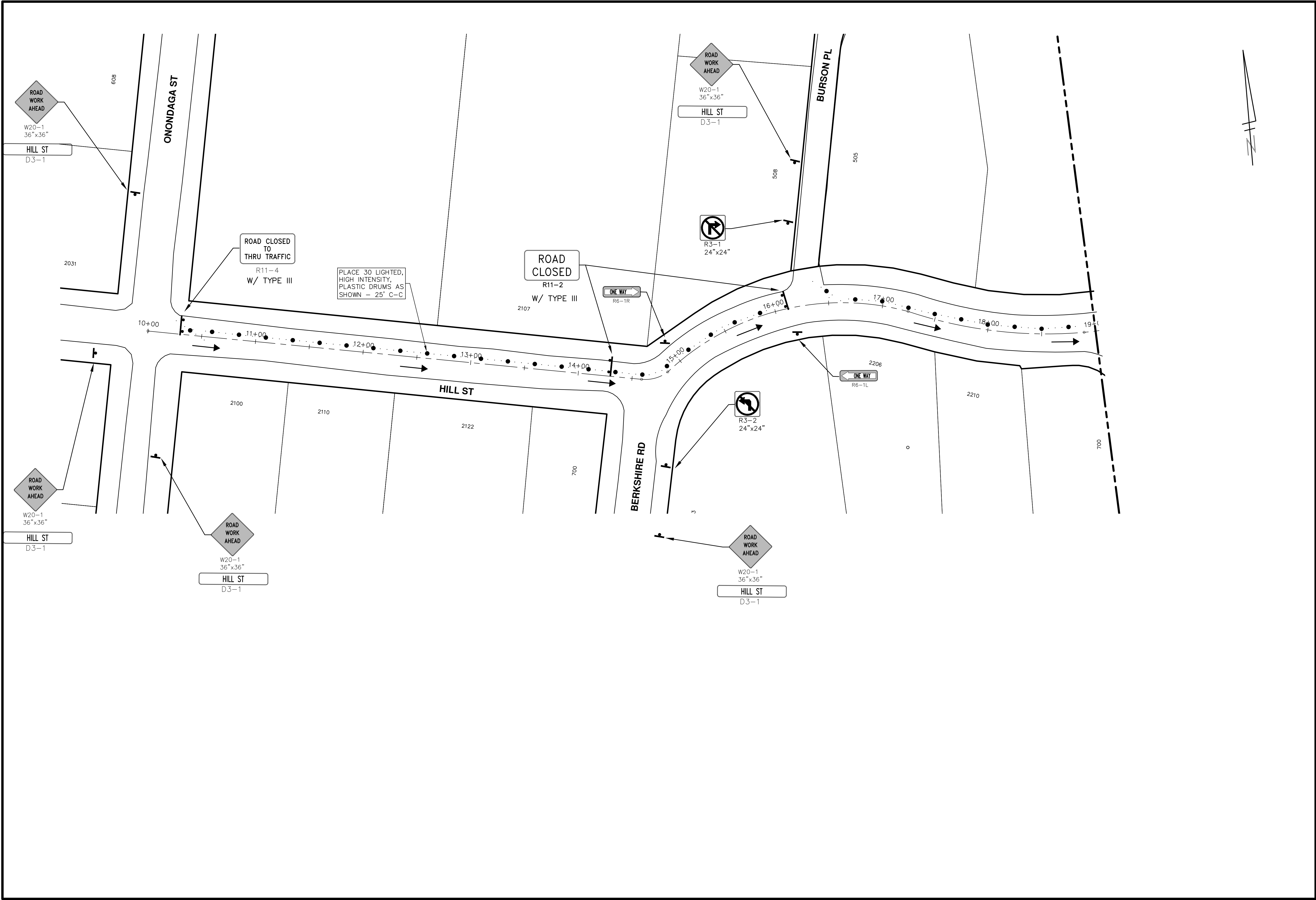
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AG.OS.RG
03-08-2017
DATE

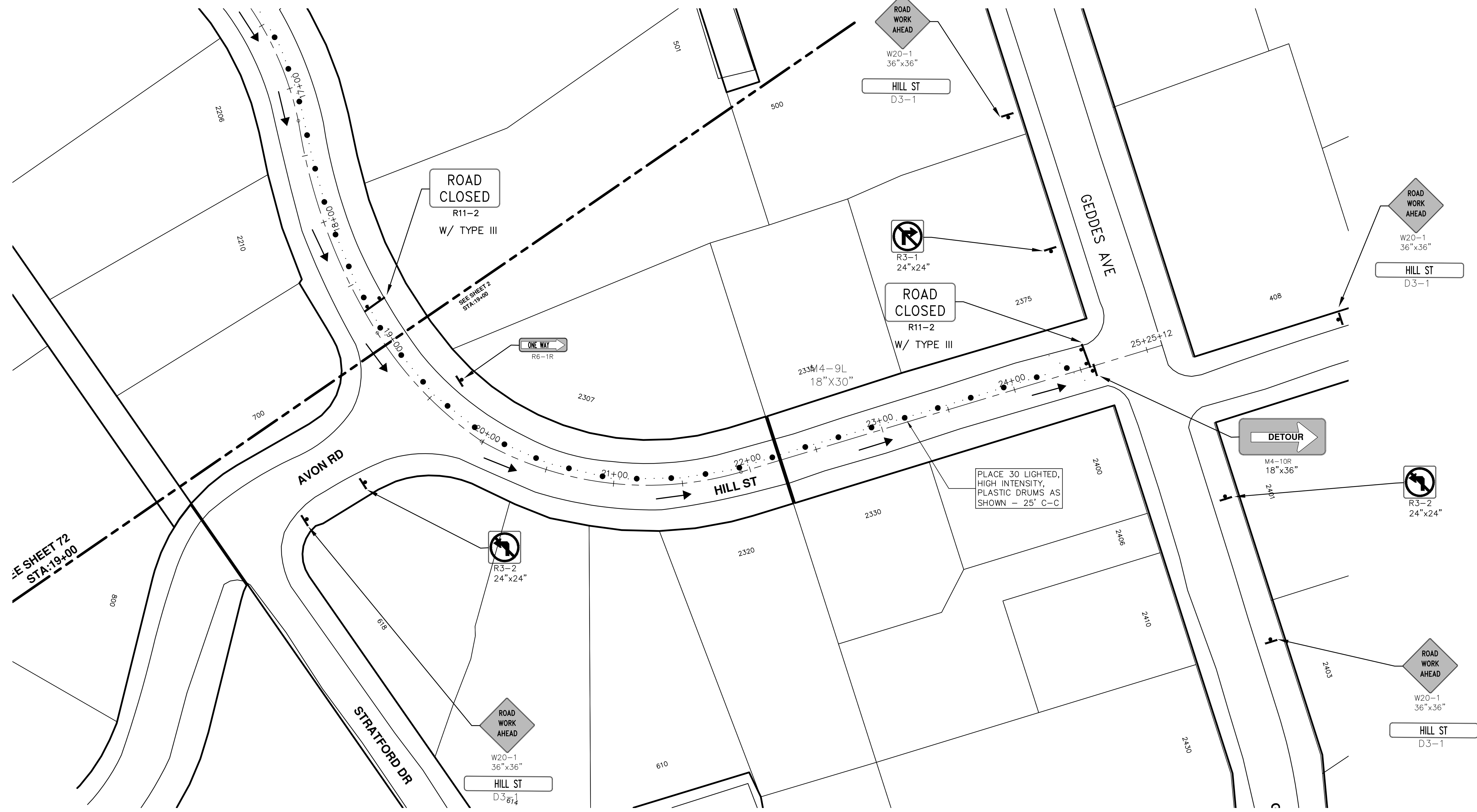
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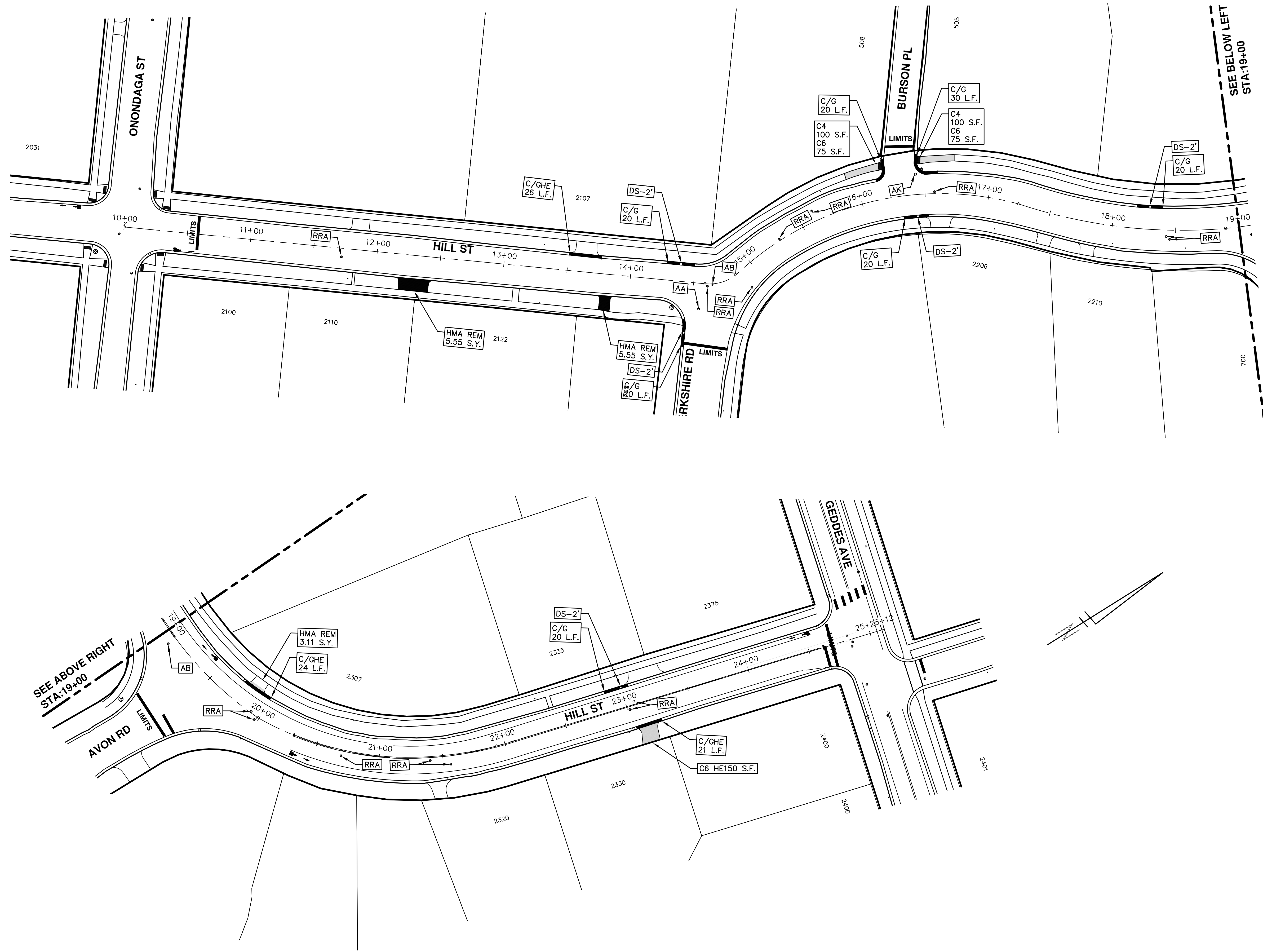


<p>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2017 HILL STREET TRAFFIC CONTROL</p>		<p>811 Know what's below. Call before you dig.</p>	
<p>SCALE PLAN: #####</p>	<p>DRAWING No: 2017004-70</p>	<p>REV</p>	<p>DESCRIPTION</p>
<p>NO</p>	<p>BID SET</p>	<p>DATE</p>	<p>DRAWN</p>
<p>03-08-2017</p>	<p>AG,CS,FG</p>	<p>DAD</p>	<p>CHECKED</p>
<p>CITY OF ANN ARBOR PUBLIC SERVICE 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 ANN ARBOR 734.794.4410 www.aagov.org</p>			
<p>CITY OF ANN ARBOR MICHIGAN</p>			



REV.	BID SET	DATE	DESCRIPTION
00	AG, CSR, G	03-08-2017	DRAWN
	DAD		CHECKED

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

811
 Know what's below.
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.GSRG	DAD

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 ANN ARBOR, MI 48106-8647
 ANN ARBOR: 734-794-4410
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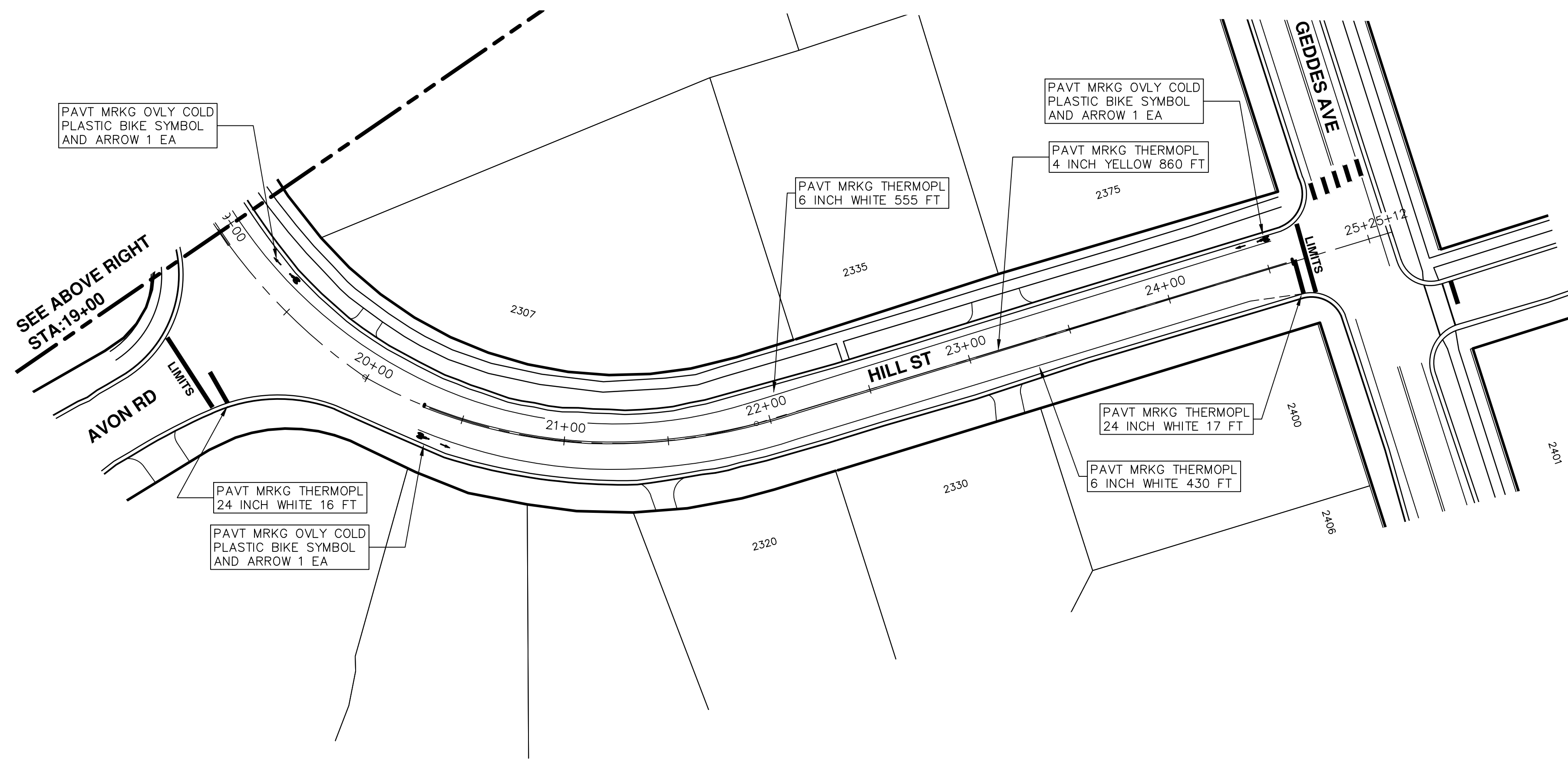
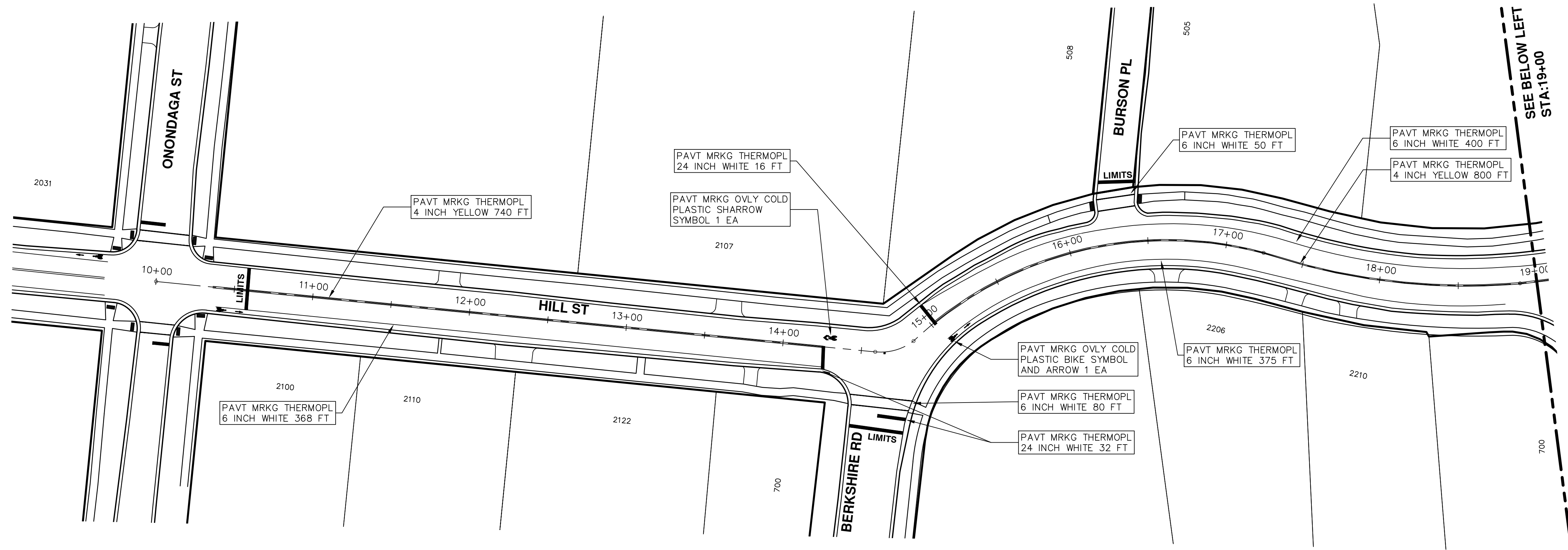
SCALE PLAN: 1"=40'

SHEET No.

DRAWING No.
2017004-72

72 OF 136

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.GSRG	DAD

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



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
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

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 7 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.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT AREA, INCLUDING GATE AND MONUMENT BOXES.

PHASE II

- REPEAT ITEMS 1 THRU 5 IN THE ORDER SHOWN ABOVE.
- REMOVE 2 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.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (MAJOR STREETS) OVER ENTIRE STREET.
- 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
2030011	Dr Structure, Rem	Ea	12.000
2030015	Sewer, Rem, Less than 24 inch	Ft	120.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	486.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	281.000
2057011	Grading, Sidewalk	Syd	164.000
2057011	Grading, Sidewalk Ramp	Syd	117.000
2057021	Subgrade Undercutting, Type IIA	Cyd	311.000
2087050	Erosion Control, Inlet Filter	Ea	24.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	120.000
4030200	Dr Structure, 24 inch dia	Ea	12.000
4037001	Dr Structure Cover, Special	Ea	2.000
4037050	Dr Structure Cover, Type B, Modified	Ea	5.000
4037050	Dr Structure Cover, Type K, Modified	Ea	13.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	14.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,636.000
5010005	HMA Surface, Rem	Syd	54.000
5010057	HMA, 5E3	Ton	1,579.000
5010061	HMA, Approach	Ton	57.000
5017031	HMA, Wedging, 36A	Ton	8.000
6027021	Flowable Fill	Cyd	18.000
8037001	Detectable Warning Surface, Modified	Ft	90.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1050.000
8037010	Sidewalk with Integral Retaining Wall, 6 inch to 18 inch Height	Sft	20.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	1475.000
8110049	Pavt Mrkg, Owy Cold Plastic, Direction Arrow Sym, Bike	Ea	10.000
8110058	Pavt Mrkg, Owy Cold Plastic, Bike, Small Sym	Ea	10.000
8110153	Pavt Mrkg, Sprayable Thermopl, 4 inch, White	Ft	206.000
8110154	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	7,708.000
8110155	Pavt Mrkg, Sprayable Thermopl, 6 inch, White	Ft	9,246.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	725.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	233.000
8117001	Pavt Mrkg, Thermopl, 24 inch, Crosswalk	Ft	184.000
8117050	Pavt Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	3.000
8117050	Pavt Mrkg, Thermopl, Only	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Fum	Ea	16.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	16.000
8120140	Lighted Arrow, Type C, Fum	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120260	Plastic Drum, High Intensity, Lighted, Fum	Ea	172.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	172.000
8120330	Sign, Portable, Changeable Message, Fum	Ea	3.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	3.000
8120350	Sign, Type B, Temp, Prismatic, Fum	Sft	735.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	735.000
8127050	No Parking Sign	Ea	61.000
8167011	Slope Restoration	Syd	179.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Grading, Sidewalk Ramp • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• Grading, Driveway Approach • Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc, 6 inch, Modified • Driveway, Nonreinf Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Dr Structure, Rem
DS	• Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia • Dr Structure, Rem
DSDI	• Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet • Dr Structure, Point
PT	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRA	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RRK	• Dr Structure, Reconstruct
RS	• Plastic Drum, High Intensity, Lighted, Fum • Plastic Drum, High Intensity, Lighted, Oper
TYPE II	• Barricade, Type III, High Intensity, Double Sided, Lighted, Fum • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper
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 (sq)	Total
40.0	D3-1	Street Name Sign	4.000	160.000
1.0	M4-10L	Detour Arrow (Left) Sign	6.000	6.000
1.0	M4-10R	Detour Arrow (Right) Sign	6.000	6.000
1.0	M4-8a	End Detour Sign	3.000	3.000
5.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	25.000
2.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	10.000
7.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	35.000
4.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	50.000
11.0	R6-1L	One Way (Left) Sign	3.000	33.000
11.0	R6-1R	One Way (Right) Sign	3.000	33.000
4.0	SP-1	Special Sign	20.000	80.000
14.0	W20-1	Road Work Ahead Sign	9.000	126.000
1.0	W20-2	Detour Ahead Sign	9.000	9.000
6.0	W20-3	Road Closed Ahead Sign	9.000	54.000
1.0	W20-4	One Lane Road Sign ("One Lane Road Ahead")	9.000	9.000
		TOTAL		639.000



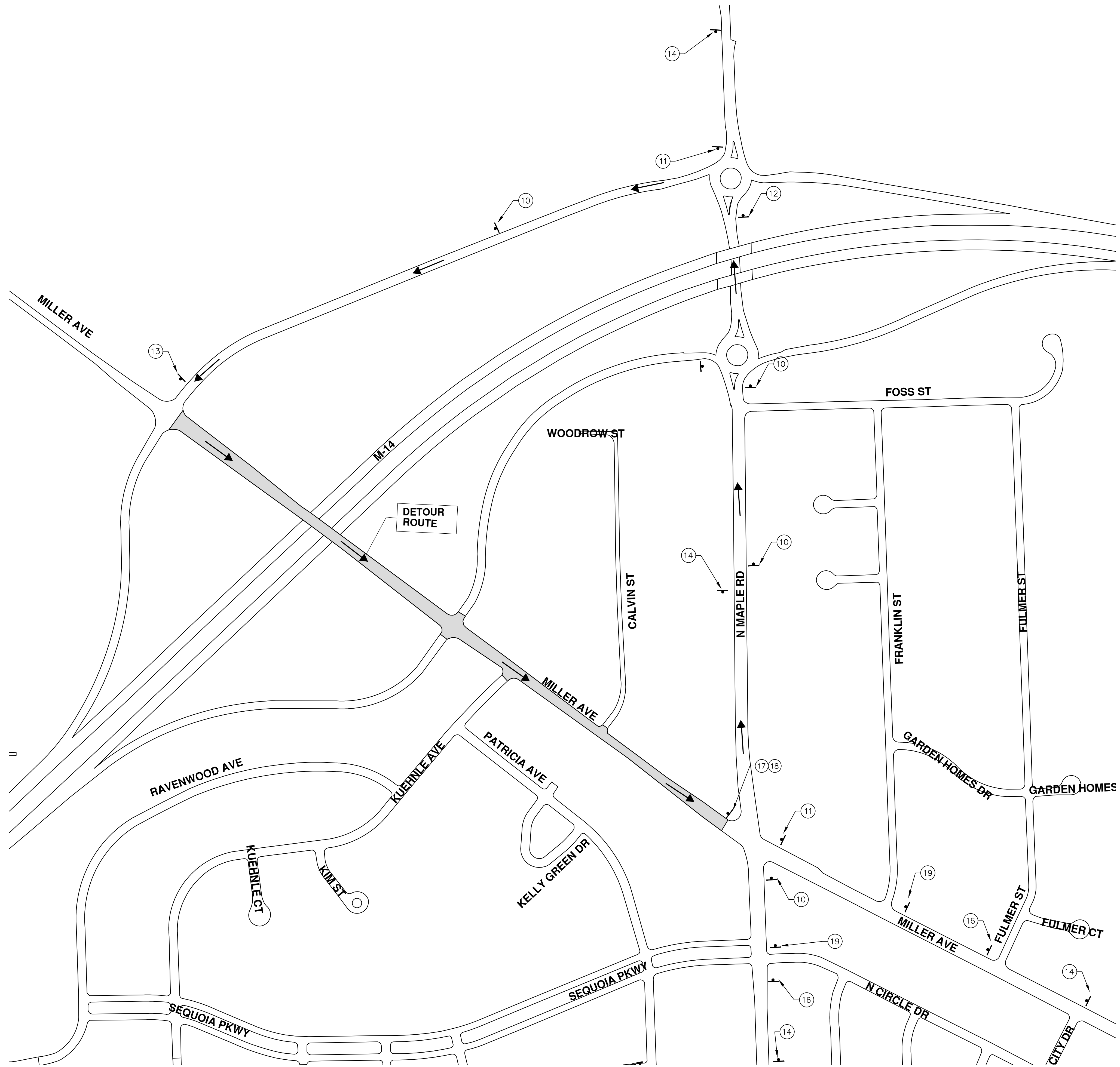
PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

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

SHEET No. 74 OF 136



TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
10	MILLER AVE DETOUR ↑	D3-1 M4-9S 30x24
11	MILLER AVE DETOUR →	D3-1 M4-9R 30x24
12	MILLER AVE DETOUR ←	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

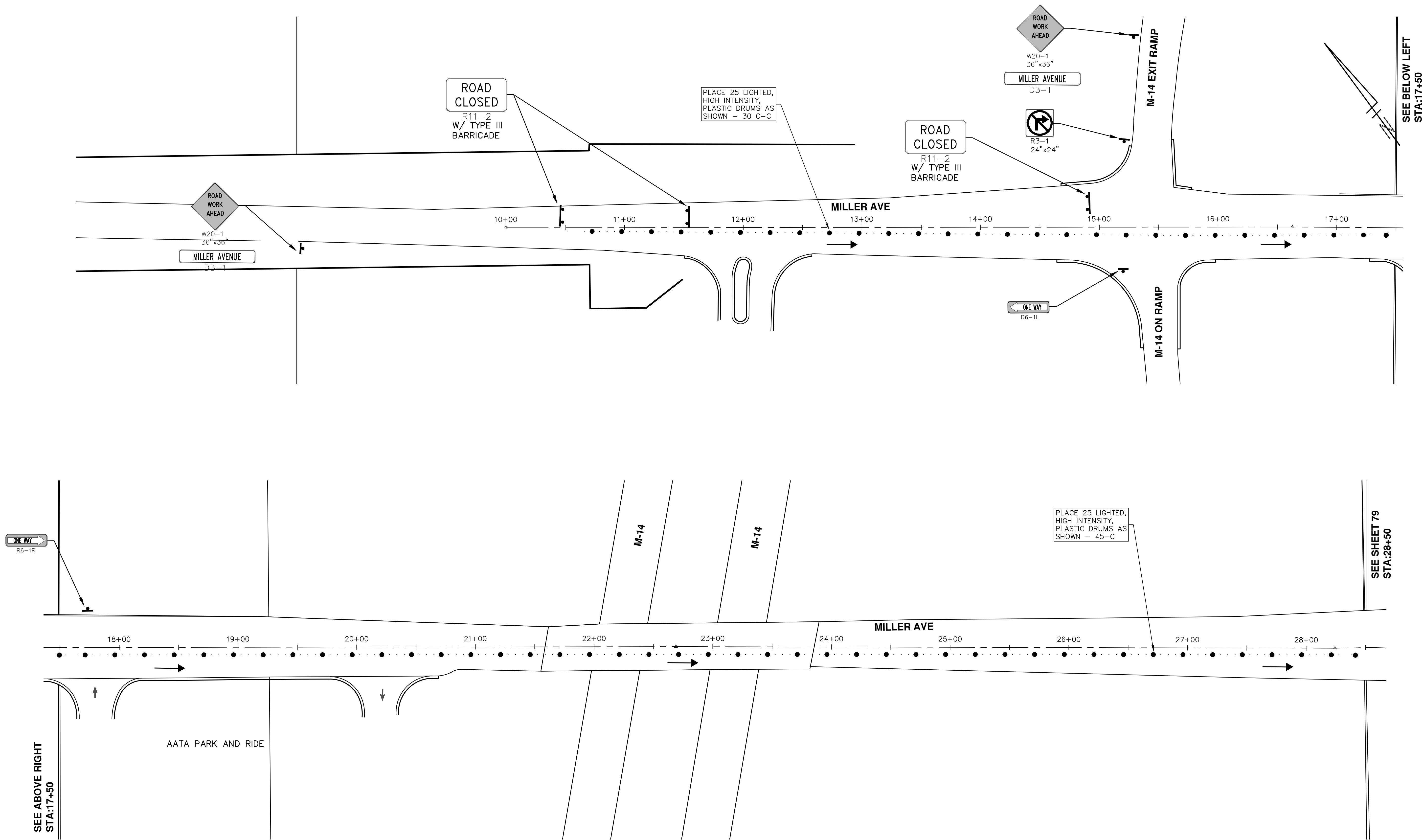
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DESCRIPTION

REV. 00 BID SET
DATE 03-08-2017
DRAWN AG.GSRG
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SEE SHEET 79
STA:28+50

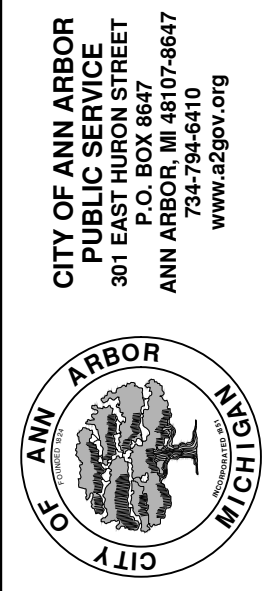
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

SCALE PLAN: #####

DRAWING No. 2017004-76

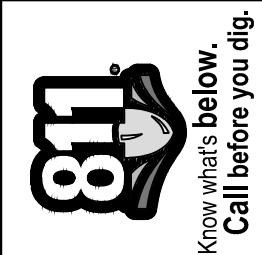
ANNUAL STREET RESURFACING - 2017
MILLER AVENUE

TRAFFIC CONTROL



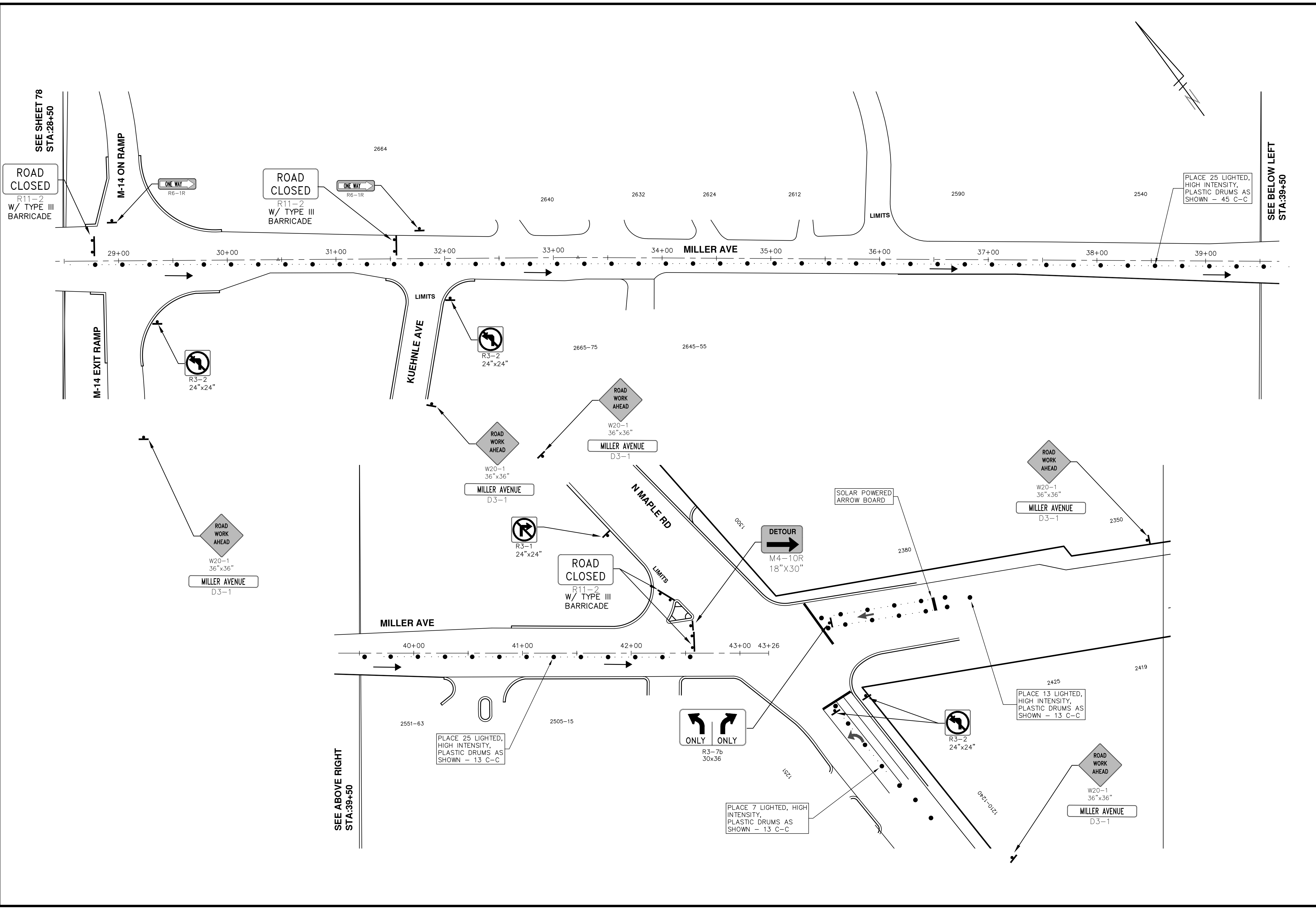
CITY OF ANN ARBOR
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301 EAST HURON STREET
ANN ARBOR, MI 48106-0667
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00	BID SET
01	03-08-2017 DATE
02	AG.GS.RG DRAWN
03	DAD CHECKED



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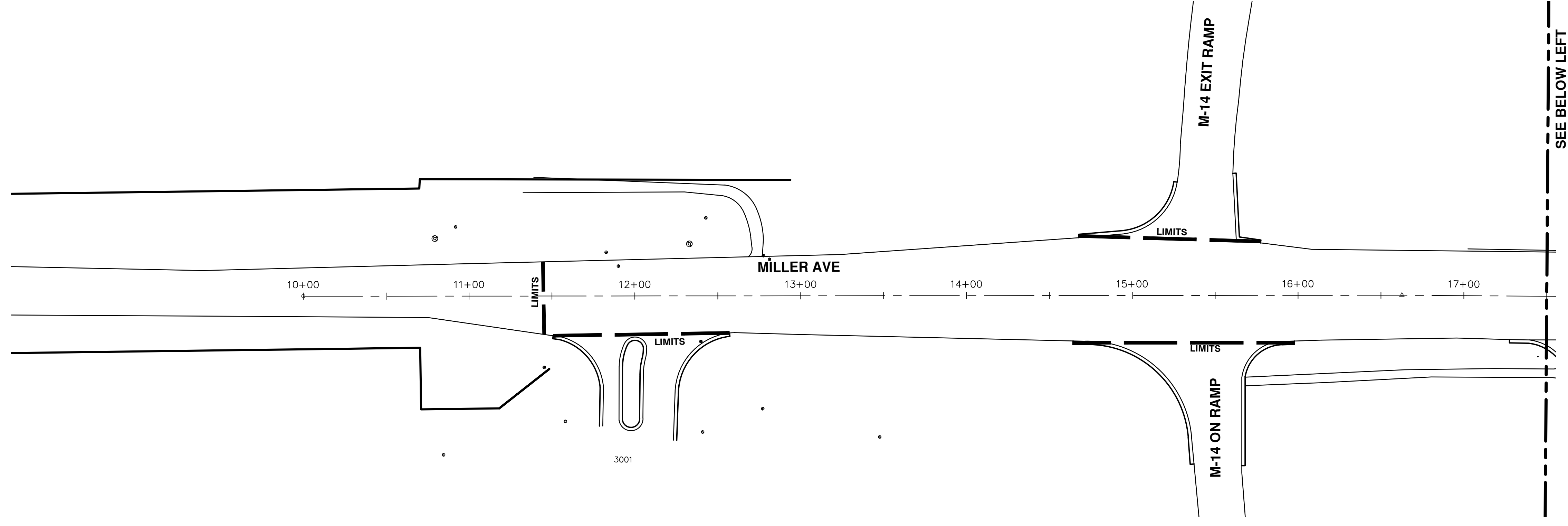
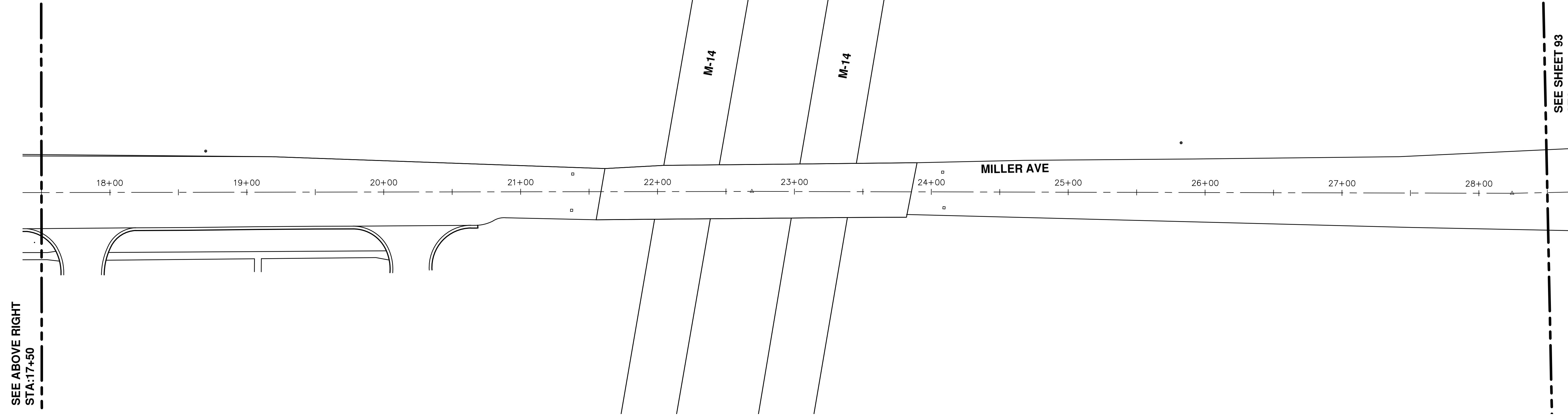
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 MILLER AVENUE
 TRAFFIC CONTROL

SCALE PLAN: #####
 DRAWING No. 2017004-77

811
 Know what's below.
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REV.	DATE	DESCRIPTION
00	03-08-2017	AG, CS, RG
		DRAWN
		DAD
		CHECKED

CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-6647
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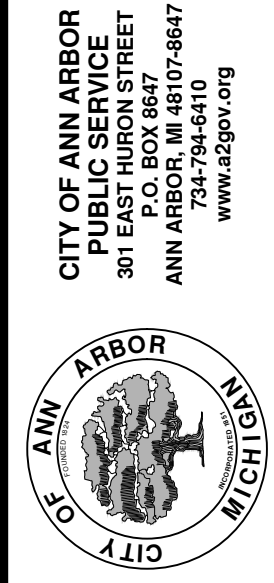
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SEE SHEET 93
STA:28+50

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
MILLER AVENUE
STA. 10+00 - STA. 28+50

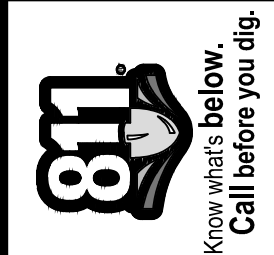
SCALE PLAN: 1"=80'
DRAWING No. 2017004-78

SHEET No. 78 OF 136

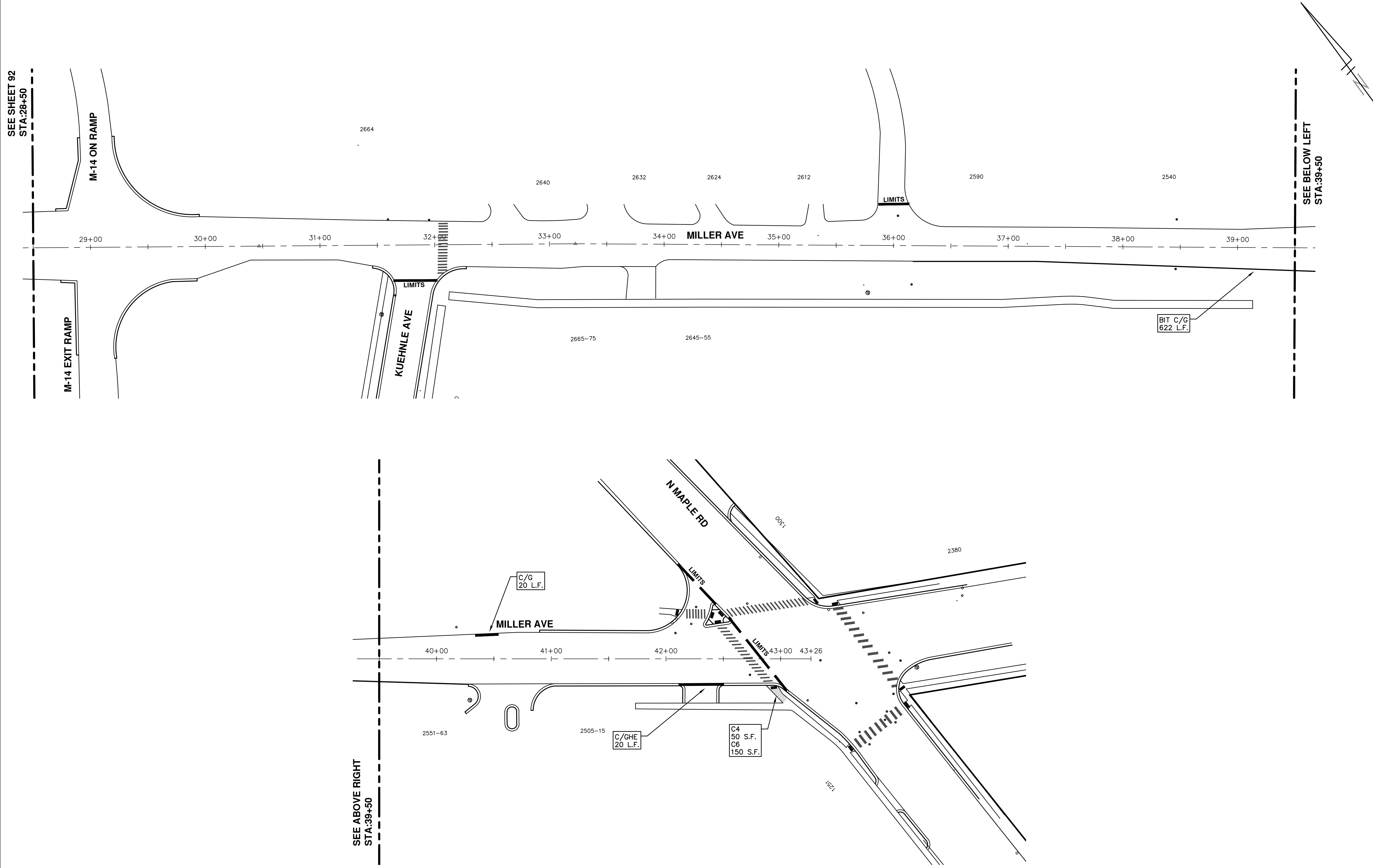


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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SEE SHEET 92
STA:28+50

M-14 ON RAMP

M-14 EXIT RAMP

KUEHNE AVE

MILLER AVE

N MAPLE RD

SEE ABOVE RIGHT
STA:39+50

SEE BELOW LEFT
STA:39+50

BIT C/G
622 L.F.

C/G
20 L.F.

C/GHE
20 L.F.

C4
50 S.F.
C6
150 S.F.

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**

SCALE PLAN: 1"=40'

DRAWING No. **2017004-79**

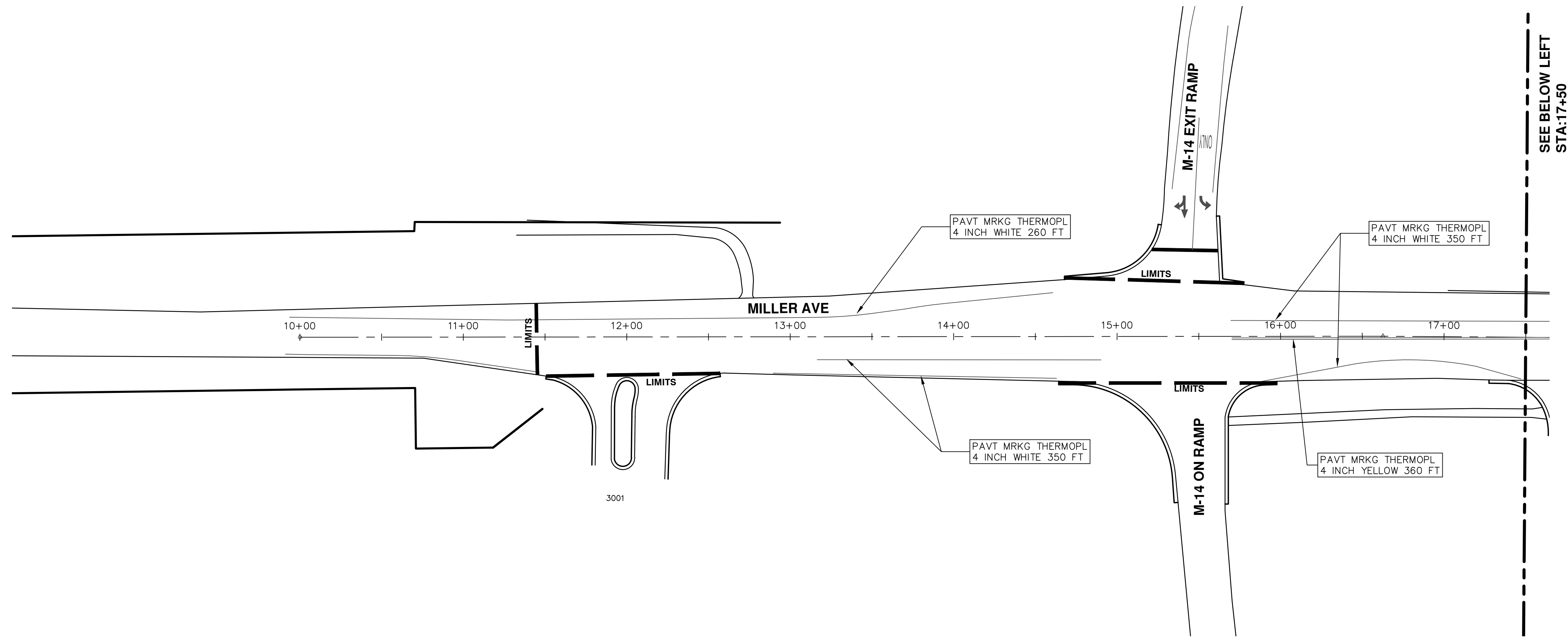
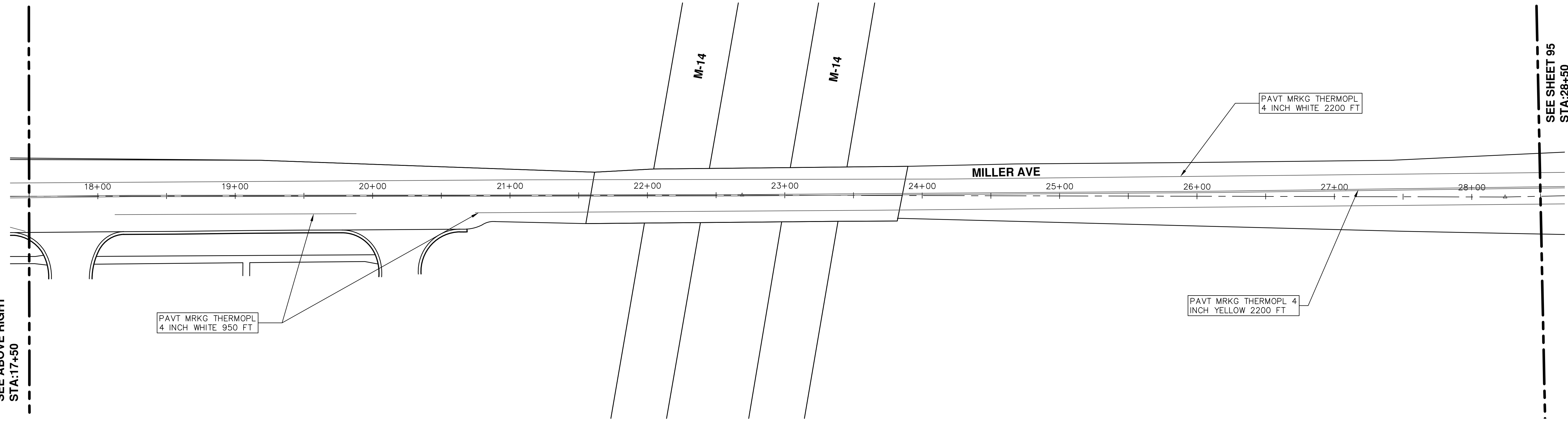
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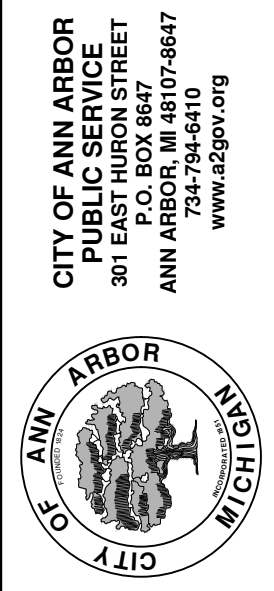
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SHEET No.
80 OF 136

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



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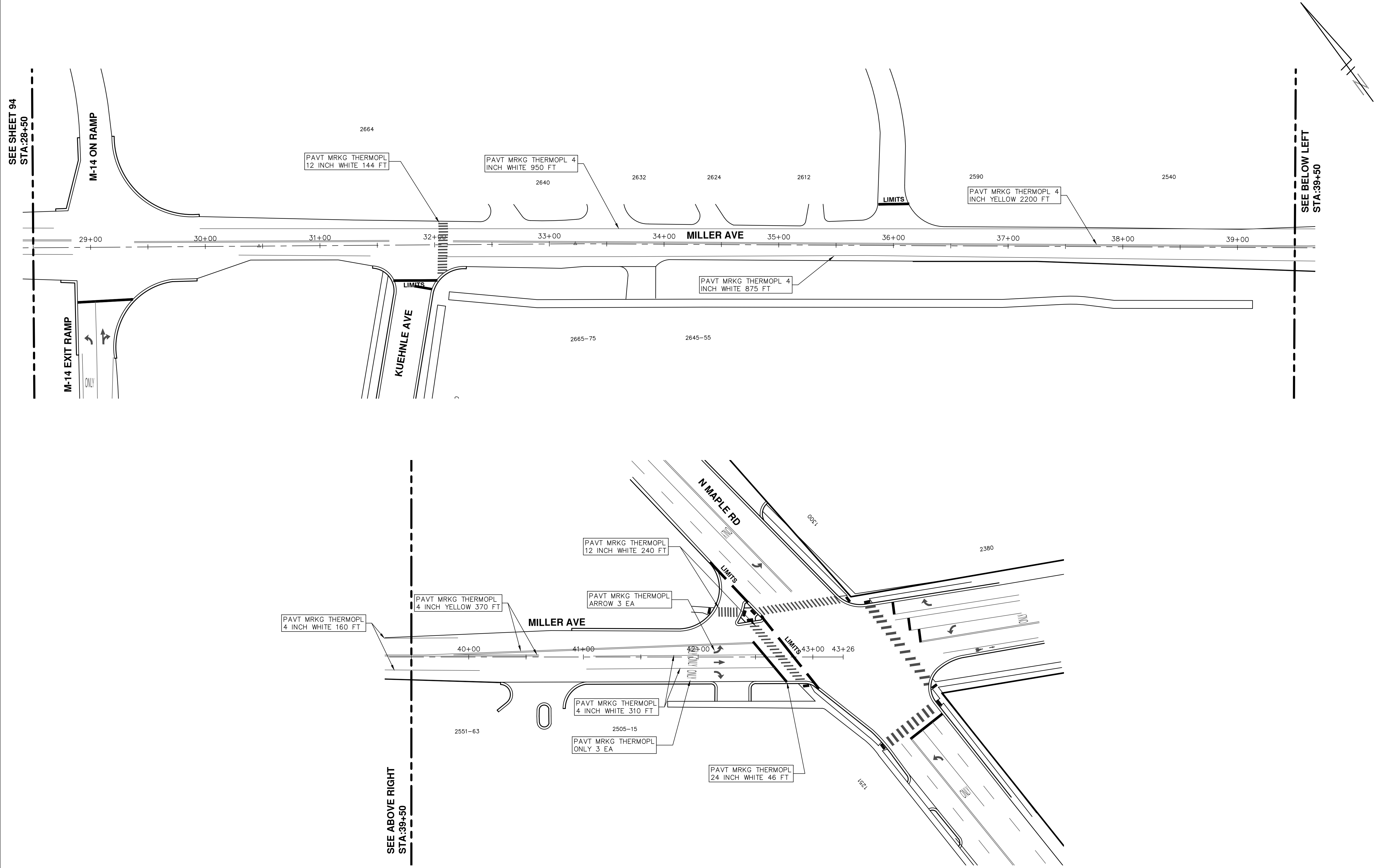
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00	BID SET

DATE	DATE	DATE	DATE
03-08-2017	AG.GSRG	DAD	CHECKED
	DRAWN		



DESCRIPTION

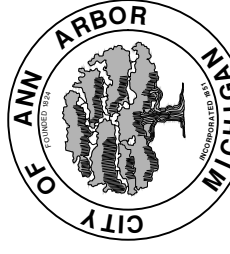

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SEE SHEET 94
STA:28+50

SEE BELOW LEFT
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STA:39+50

			
<p>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2017 MILLER AVENUE PAVEMENT MARKINGS</p>		<p>City of Ann Arbor Public Service 301 East Huron Street Ann Arbor, MI 48106-2667 www.a2gov.org</p>	
<p>SCALE PLAN: 1"=80'</p>	<p>DRAWING No. 2017004-81</p>	<p>REV.</p>	<p>DESCRIPTION</p>
<p>00</p>	<p>BID SET</p>	<p>03-08-2017</p>	<p>DATE</p>
<p>00</p>	<p>AG.CS.RG</p>	<p>DRAWN</p>	<p>CHECKED</p>
<p>00</p>	<p>DAD</p>	<p>DRAWN</p>	<p>CHECKED</p>



CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: S DIVISION 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 7 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.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT AREA, INCLUDING GATE AND MONUMENT BOXES.

PHASE II

- REPEAT ITEMS 1 THRU 5 IN THE ORDER SHOWN ABOVE.
- REMOVE 2 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.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (MAJOR STREETS) OVER ENTIRE STREET.
- 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.

QUANTITIES			
Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	12.000
2030015	Sewer, Rem, Less than 24 inch	Ft	120.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	486.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	281.000
2057011	Grading, Sidewalk	Syd	164.000
2057011	Grading, Sidewalk Ramp	Syd	117.000
2057021	Subgrade Undercutting, Type IIA	Cyd	311.000
2087050	Erosion Control, Inlet Filter	Ea	24.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	120.000
4030200	Dr Structure, 24 inch dia	Ea	12.000
4037001	Dr Structure Cover, Special	Ea	2.000
4037050	Dr Structure Cover, Type B, Modified	Ea	5.000
4037050	Dr Structure Cover, Type K, Modified	Ea	13.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	14.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,636.000
5010005	HMA Surface, Rem	Syd	54.000
5010057	HMA, 5E3	Ton	1,579.000
5010061	HMA, Approach	Ton	57.000
5017031	HMA, Wedging, 36A	Ton	8.000
6027021	Flowable Fill	Cyd	18.000
8037001	Detectable Warning Surface, Modified	Ft	90.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1050.000
8037010	Sidewalk with Integral Retaining Wall, 6 inch to 18 inch Height	Sft	20.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	1475.000
8110049	Pav Mrkg, Oly Cold Plastic, Direction Arrow Sym, Bike	Ea	10.000
8110058	Pav Mrkg, Oly Cold Plastic, Bike, Small Sym	Ea	10.000
8110153	Pav Mrkg, Sprayable Thermopl, 4 inch, White	Ft	206.000
8110154	Pav Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	7,708.000
8110155	Pav Mrkg, Sprayable Thermopl, 6 inch, White	Ft	9,246.000
8110197	Pav Mrkg, Thermopl, 6 inch, Crosswalk	Ft	725.000
8110218	Pav Mrkg, Thermopl, 24 inch, Stop Bar	Ft	233.000
8117001	Pav Mrkg, Thermopl, 24 inch, Crosswalk	Ft	184.000
8117050	Pav Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	3.000
8117050	Pav Mrkg, Thermopl, Only	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Fum	Ea	16.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	16.000
8120140	Lighted Arrow, Type C, Fum	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120260	Plastic Drum, High Intensity, Lighted, Fum	Ea	172.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	172.000
8120330	Sign, Portable, Changeable Message, Fum	Ea	3.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	3.000
8120350	Sign, Type B, Temp, Prismatic, Fum	Sft	735.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	735.000
8127050	No Parking Sign	Ea	61.000
8167011	Slope Restoration	Syd	179.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• Grading, Driveway Approach • Driveway, Nonreinf Conc, 8 inch, Modified
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 Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRA	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RRK	• Dr Structure, Reconstruct
RS	• Plastic Drum, High Intensity, Lighted, Fum • Plastic Drum, High Intensity, Lighted, Oper
TYPE II	• Barricade, Type III, High Intensity, Double Sided, Lighted, Fum • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper
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
40.0	D3-1	Street Name Sign	4.000	160.000
1.0	M4-10L	Detour Arrow (Left) Sign	6.000	6.000
1.0	M4-10R	Detour Arrow (Right) Sign	6.000	6.000
1.0	M4-8a	End Detour Sign	3.000	3.000
5.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	25.000
2.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	10.000
7.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	35.000
4.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	50.000
11.0	R6-1L	One Way (Left) Sign	3.000	33.000
11.0	R6-1R	One Way (Right) Sign	3.000	33.000
4.0	SP-1	Special Sign	20.000	80.000
14.0	W20-1	Road Work Ahead Sign	9.000	126.000
1.0	W20-2	Detour Ahead Sign	9.000	9.000
6.0	W20-3	Road Closed Ahead Sign	9.000	54.000
1.0	W20-4	One Lane Road Sign ("One Lane Road Ahead")	9.000	9.000
		TOTAL		639.000

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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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	CHECKED	
		AG. CS/GR	DRAWN	
		03-08-2017	DATE	
		BID SET	REV.	
		00		



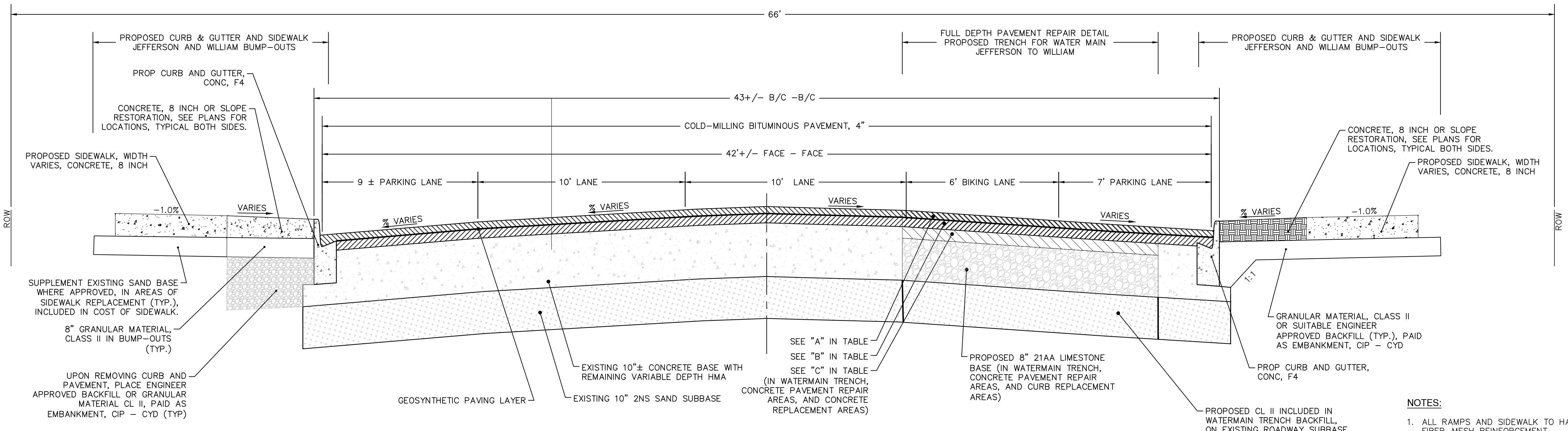
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
PO BOX 8640
ANN ARBOR MI 48106-8647
www.a2gov.org

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

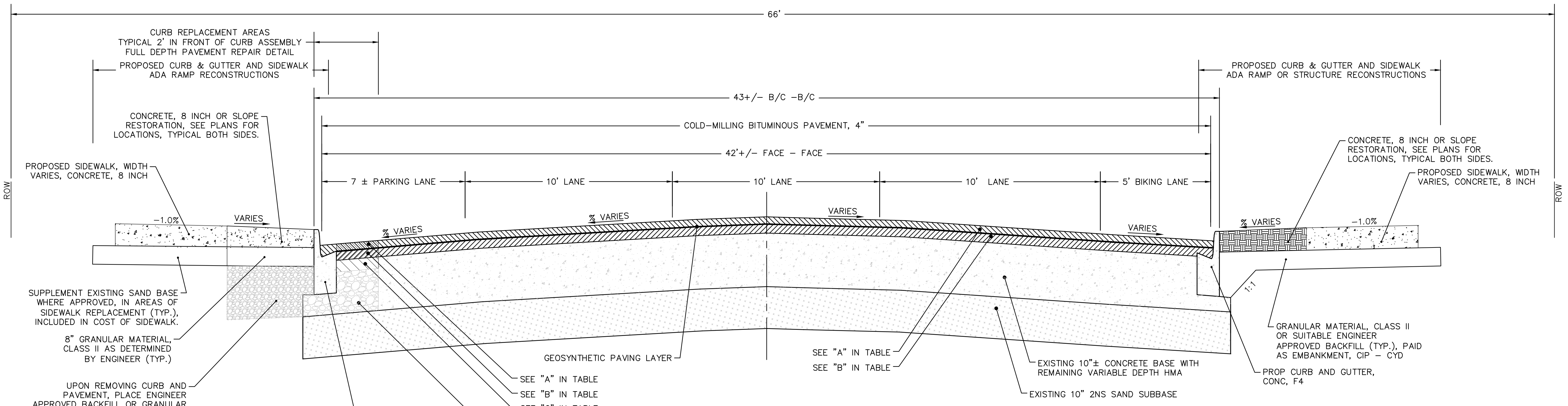
SCALE: N/A
DRAWING No. 2017004-83

SHEET No. 83 OF 136

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**S. DIVISION ST
TYPICAL SECTION**
STA. POB TO 13+50
N.T.S.



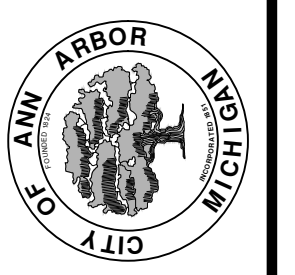
**S. DIVISION ST
TYPICAL SECTION**
STA. 13+50 TO POE
N.T.S.

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

S DIVISION ST. PROPOSED CROSS SECTION



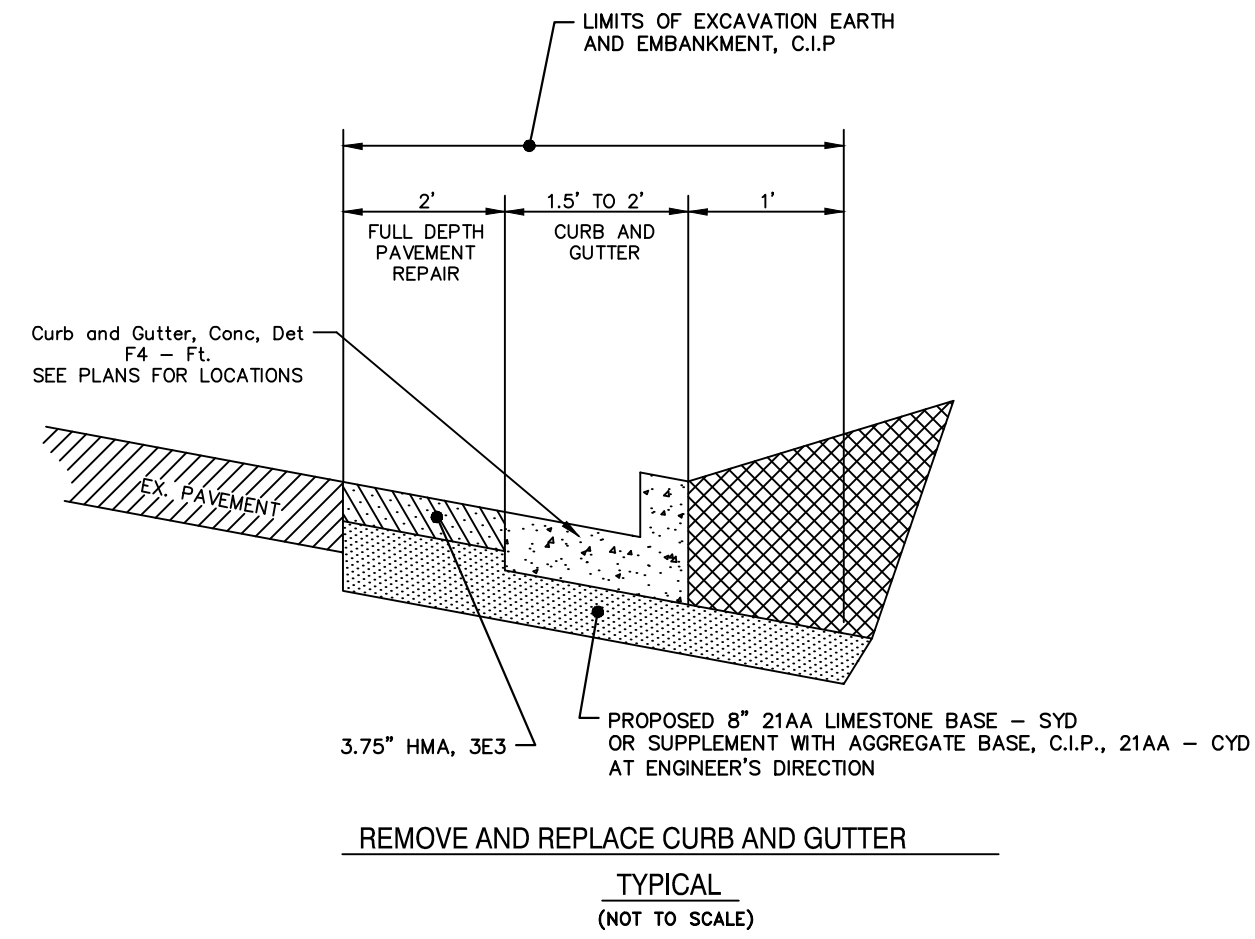
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00	BID SET	03-08-2017	AG.GSRG	DAD



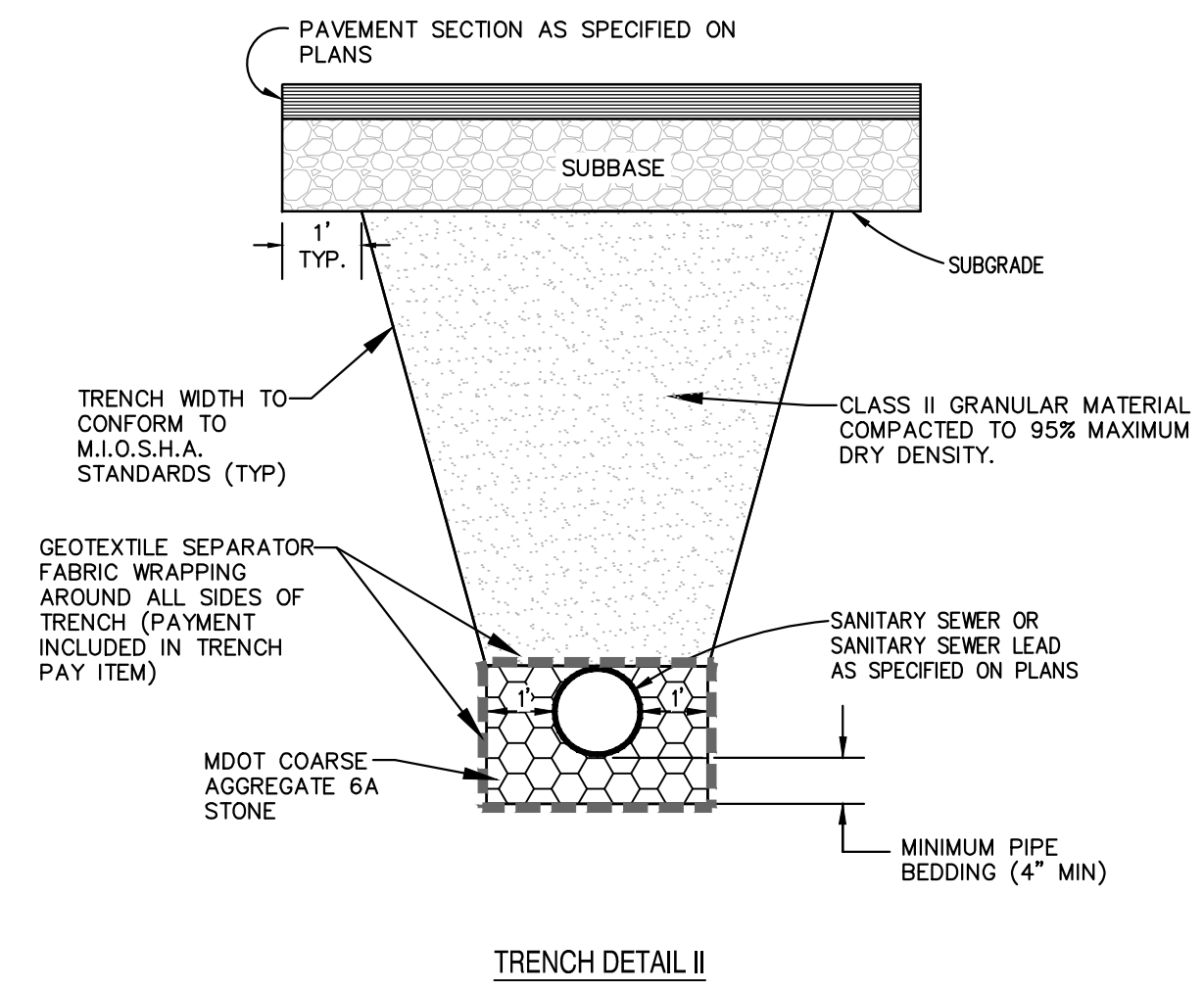
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017

SCALE PLAN: NTS
DRAWING No. 2017004 - 84
SHEET No.

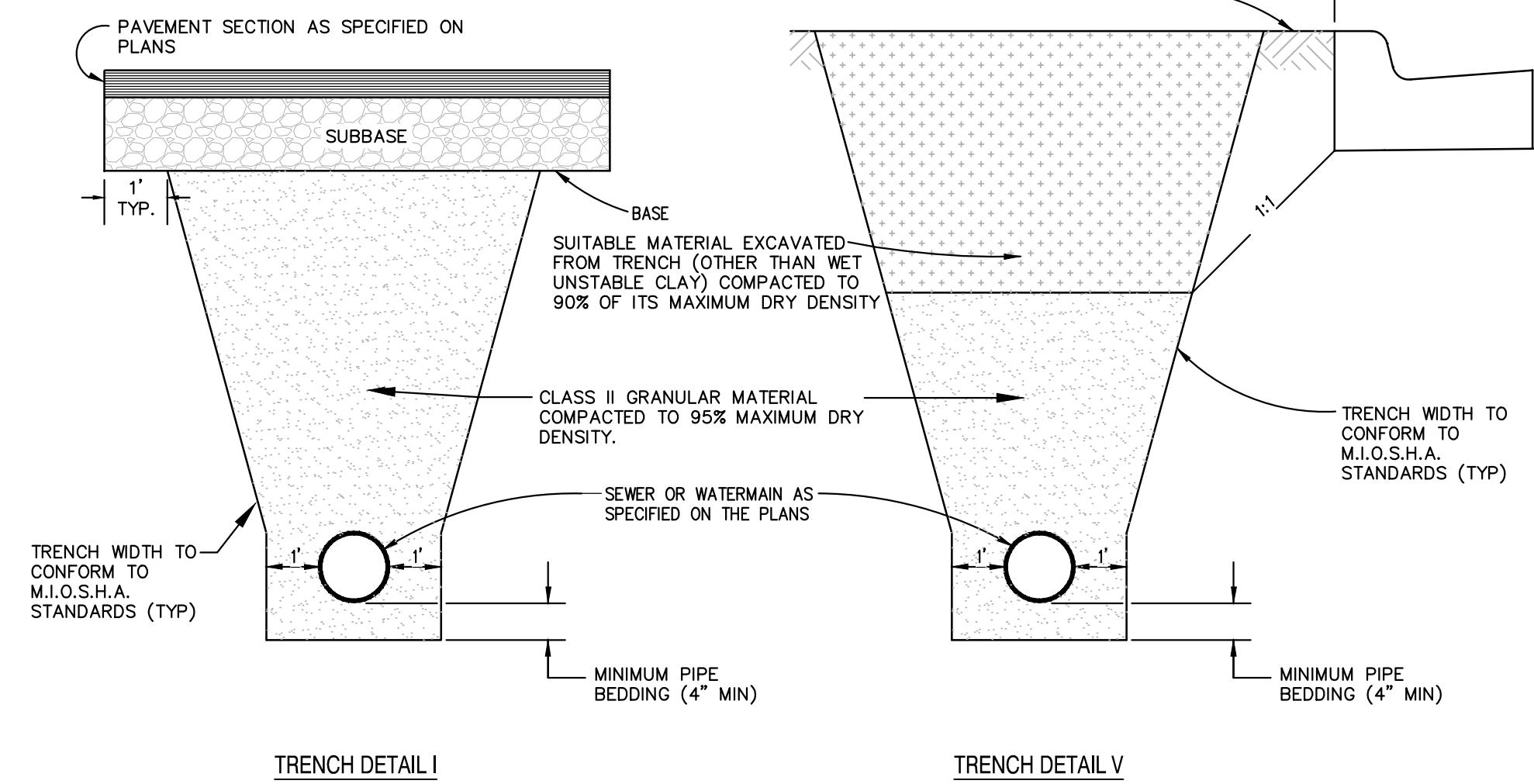
S:\Project Management\Drafting\outocad\2017004\Plan Production\Major Streets\2017004 - S Division Street Detail.dwg Dwg Created: 18-Jan-17 - _a2 standard bw.stb - Plot Date: 8-Mar-17



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



TRENCH DETAIL II

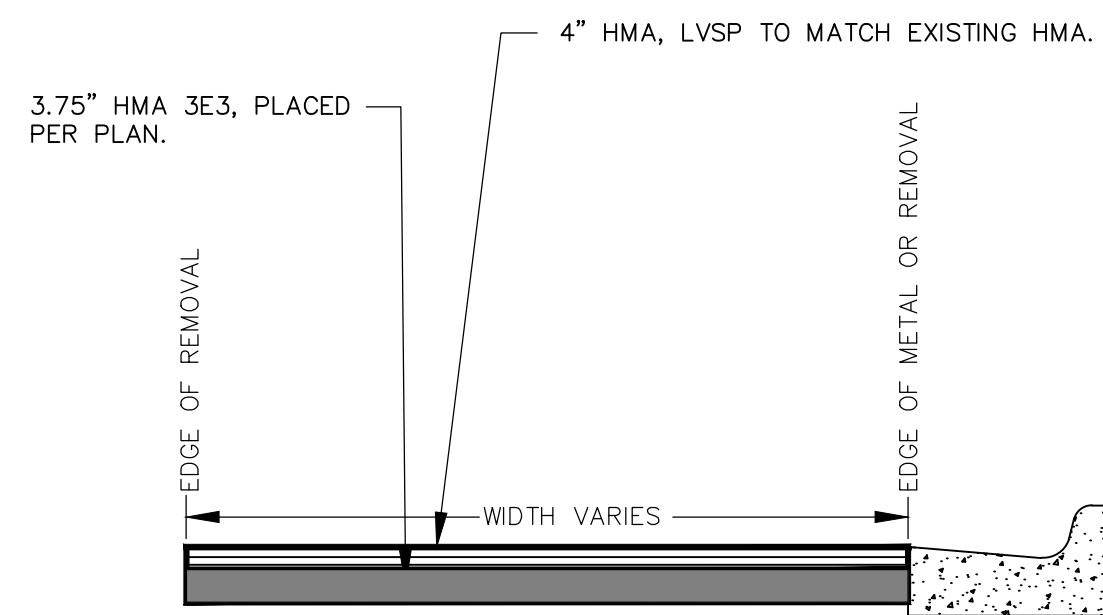


TRENCH DETAIL I

TRENCH DETAIL V

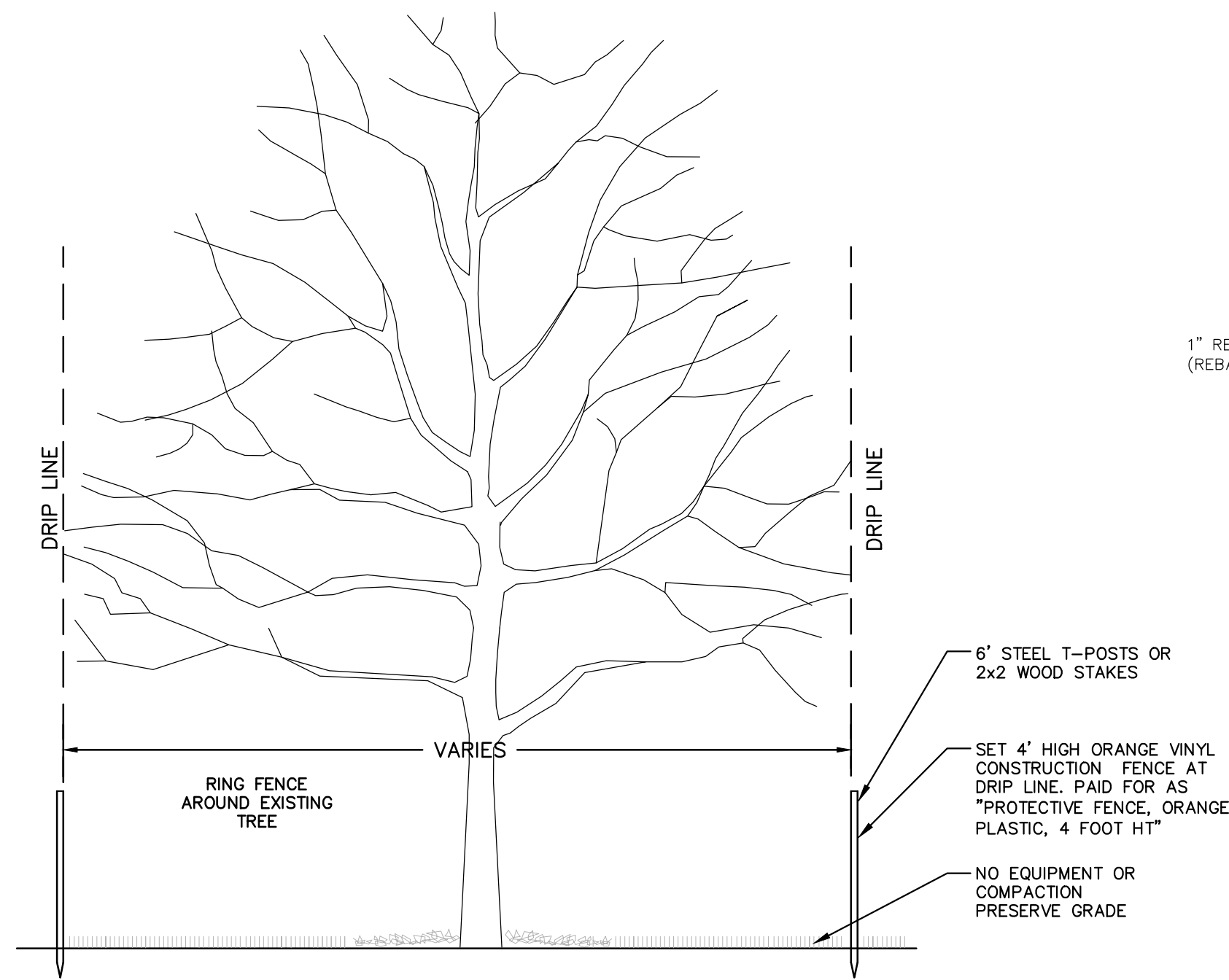
UTILITY TRENCH DETAILS

- NOTES:
1. PAVEMENT REMOVAL IS INCLUDED IN PRICE OF UTILITY SPECIFICATION
 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

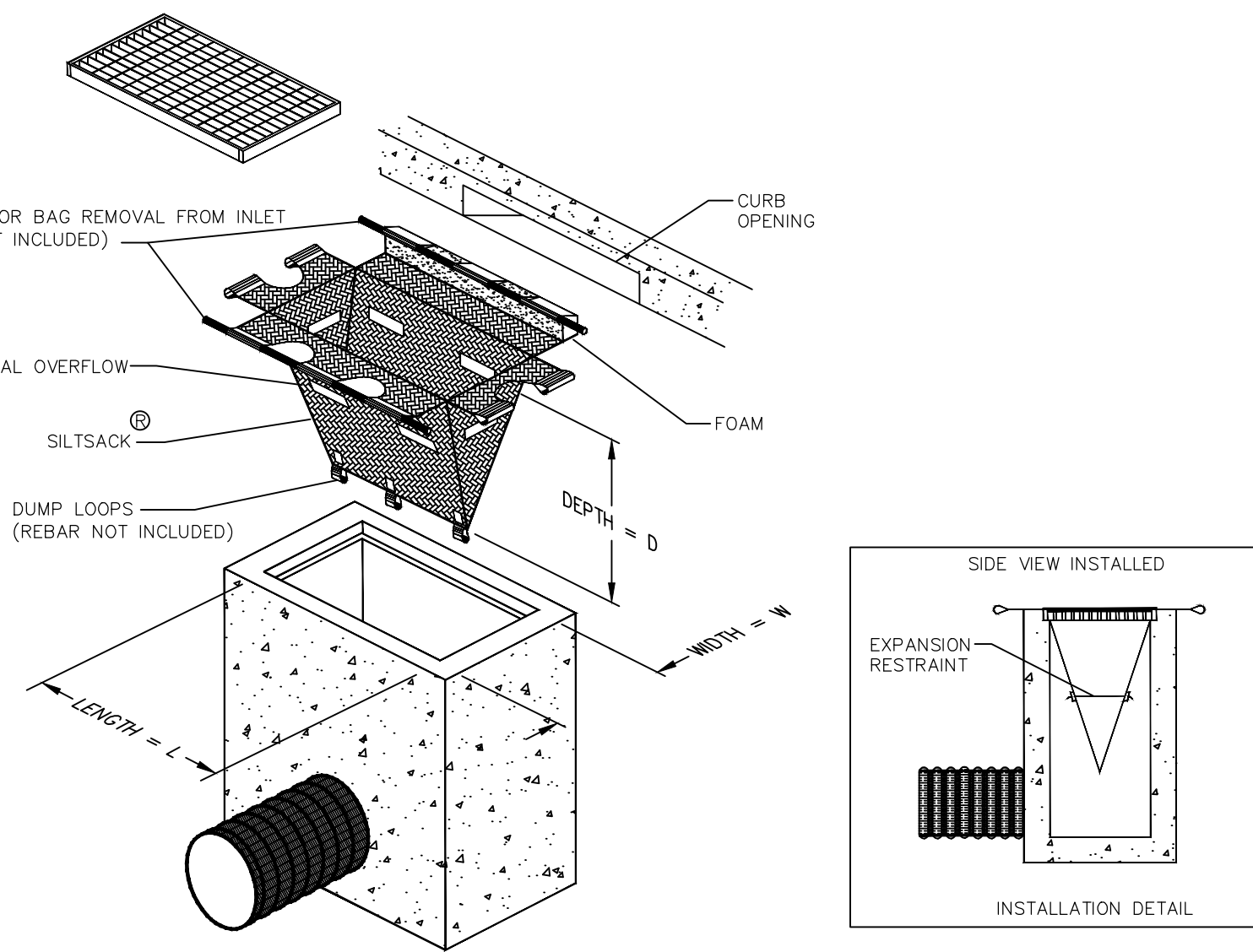


HAND PATCH
TO BE APPLIED TO WATER MAIN TRENCHES AND AT BUMP-OUTS TO MAINTAIN TRAFFIC. TO BE USED AT ENGINEER'S DIRECTIVE.

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.



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

SCALE PLAN: NTS
DRAWING No. 2017004 - 85

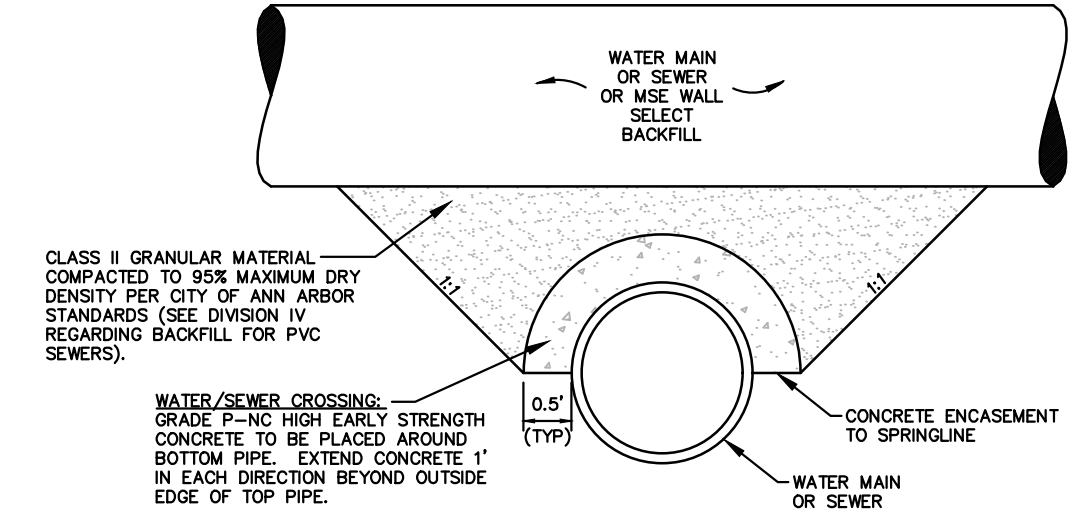
SHEET No.



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.GSRG	DAD

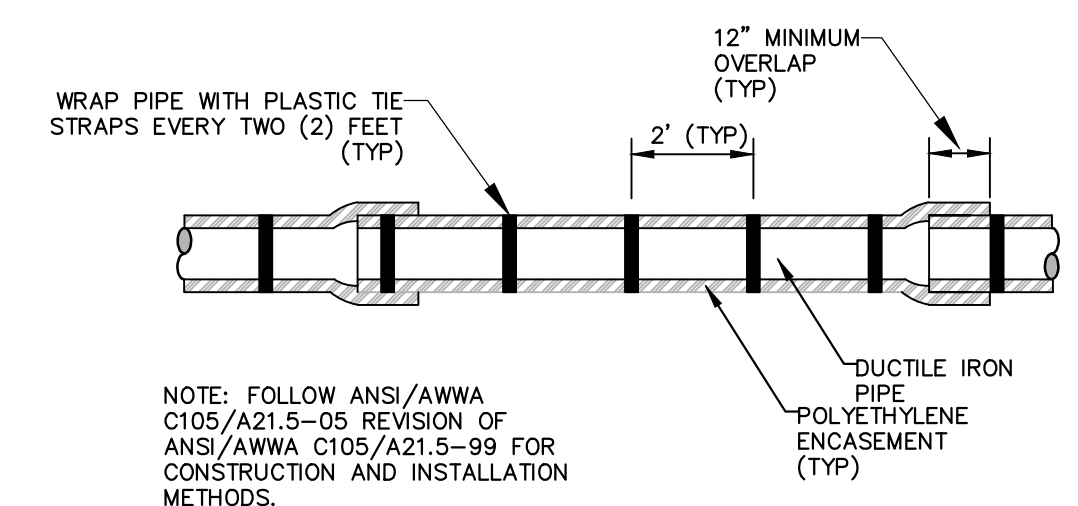
ROAD DETAIL

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - S Division Street Detail.dwg Dwg Created: 18-Jan-17 - _a2 standard bw.stb - Plot Date: 8-Mar-17



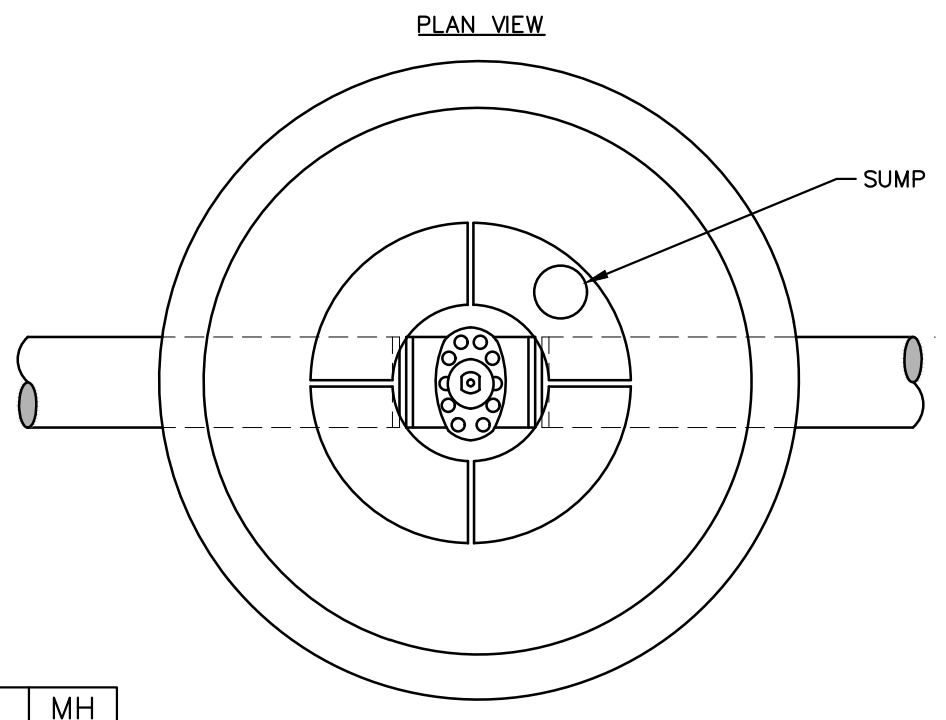
CONCRETE UTILITY SADDLE

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

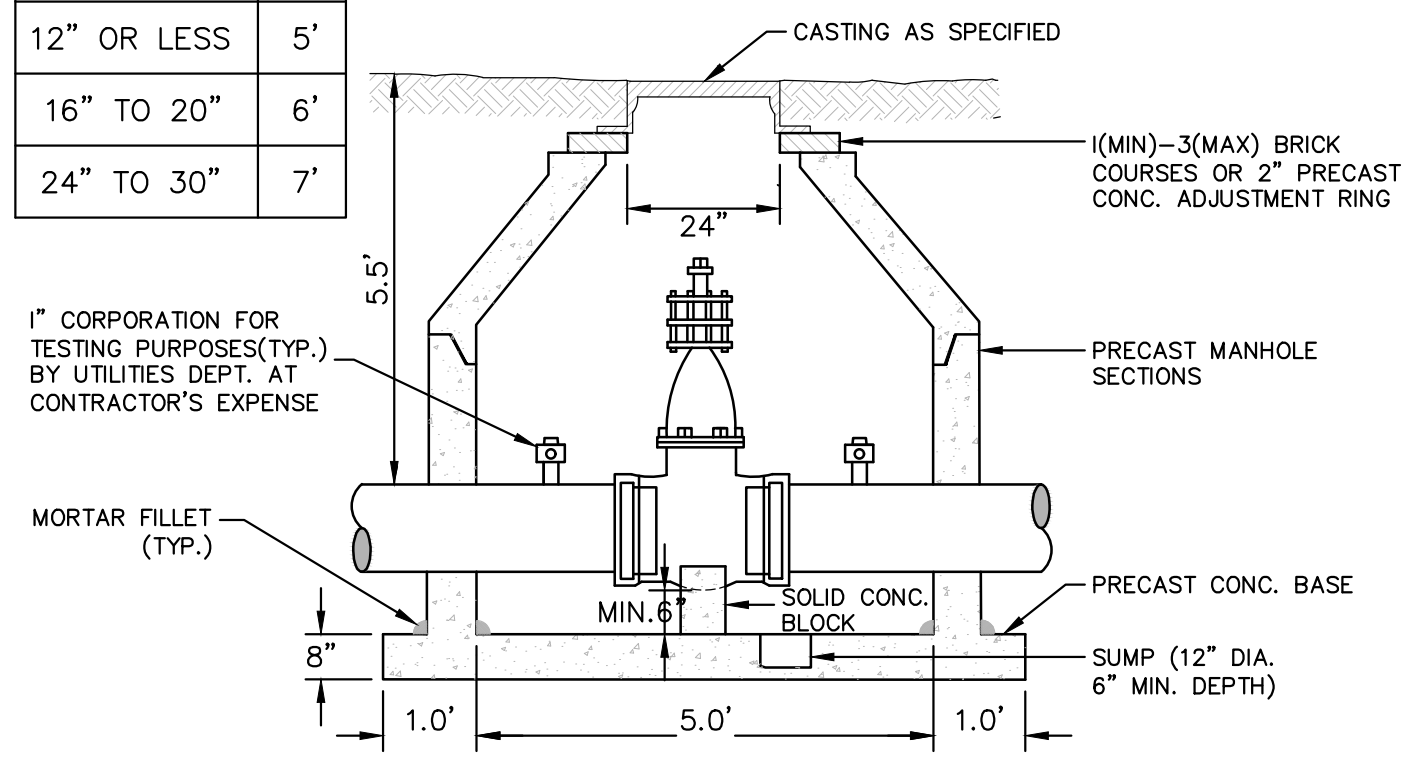


POLYETHYLENE ENCASUREMENT

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



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

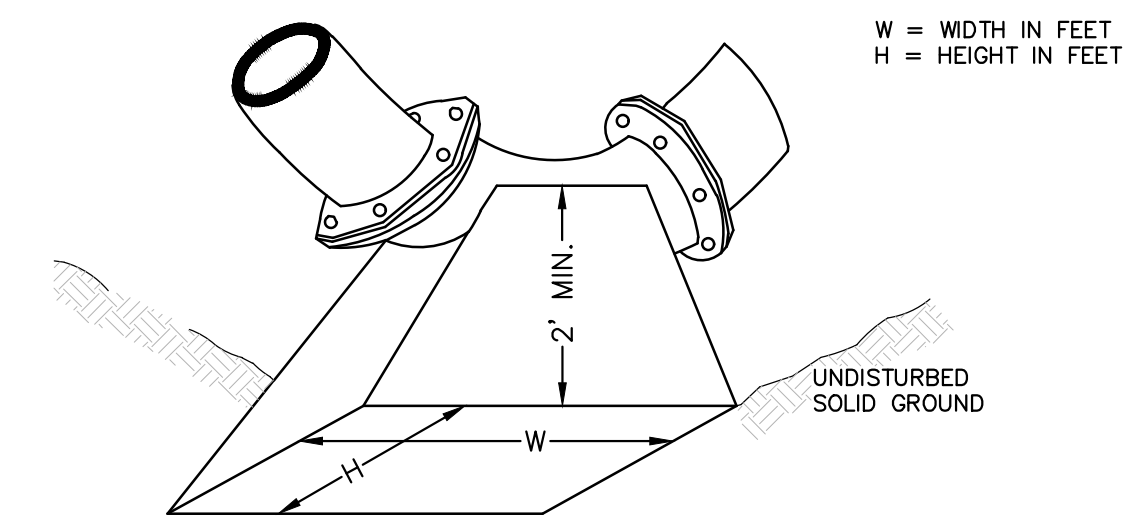
GATE WELL FOR MAIN 16" & SMALLER

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

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.

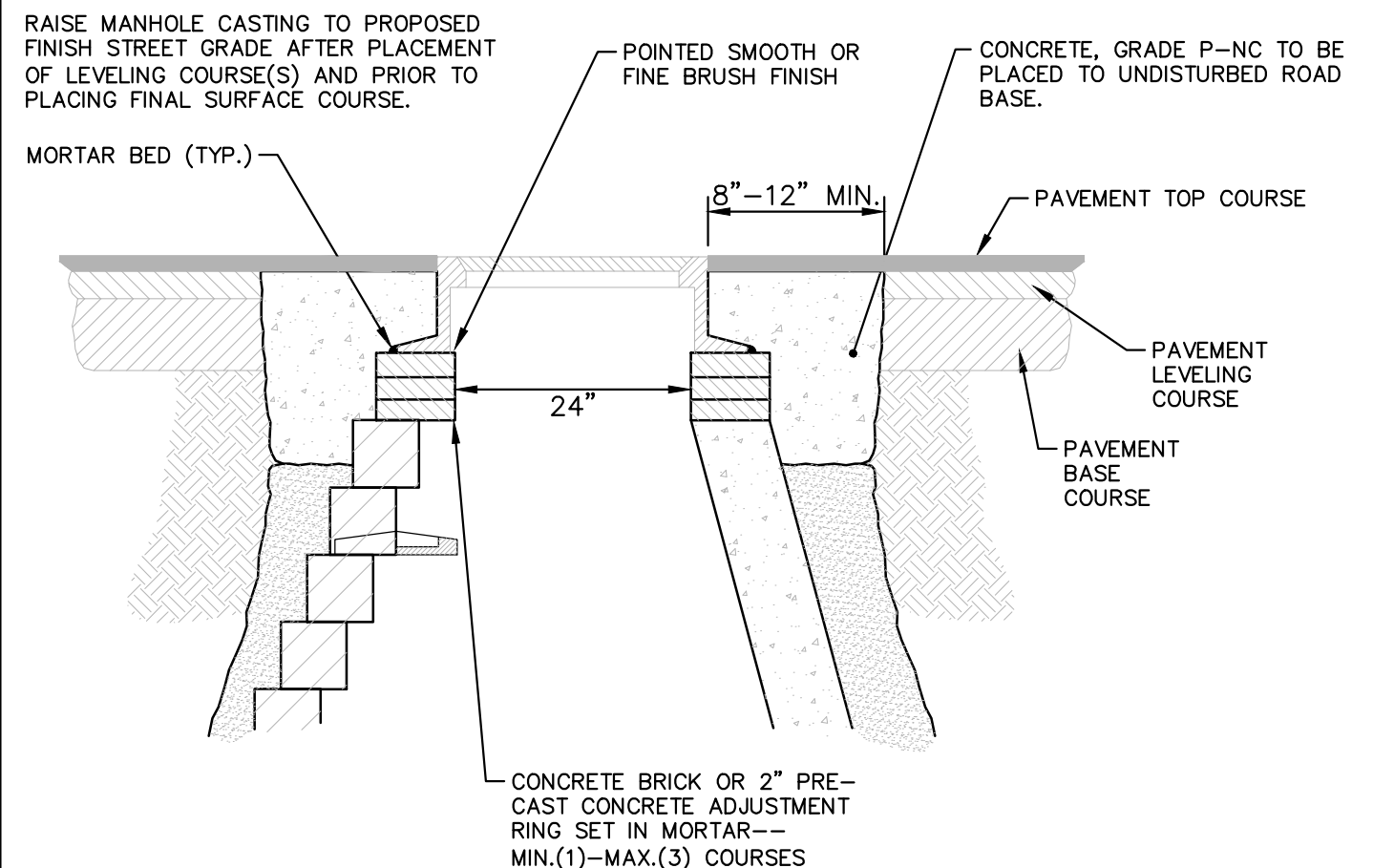
Fittings I.D.	Plug Tee Cross		Bends				Hydrant	
	W	H	90°	45°	22½°	11¼°	W	H
2.5	1	1	1	1	1	1		
4	1	1	1	1	1	1		
6	2	1.5	2	2	2	1	2	1.5
8	2.5	2	3.5	2	2	1	2.5	2
12	3.5	3	5.5	3	3.5	2.5	2	2
16	6	3.5	6	4	5	3	3.5	2
20	8	4	12	4	6	4	4	3
24	11	4	17	4	9	4	6	4
30	11	4	17	4	9	4	6	4



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

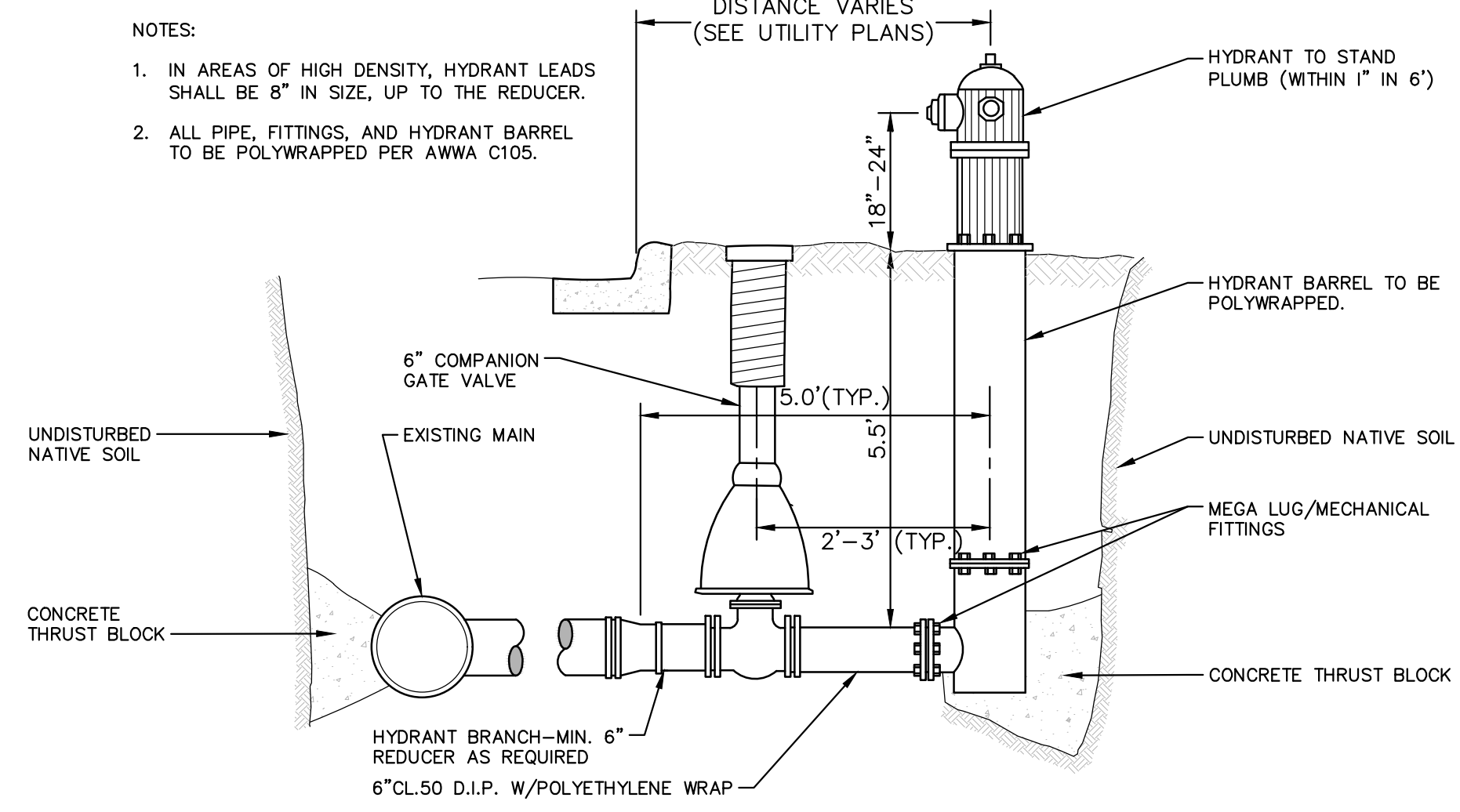
THRUST BLOCK

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



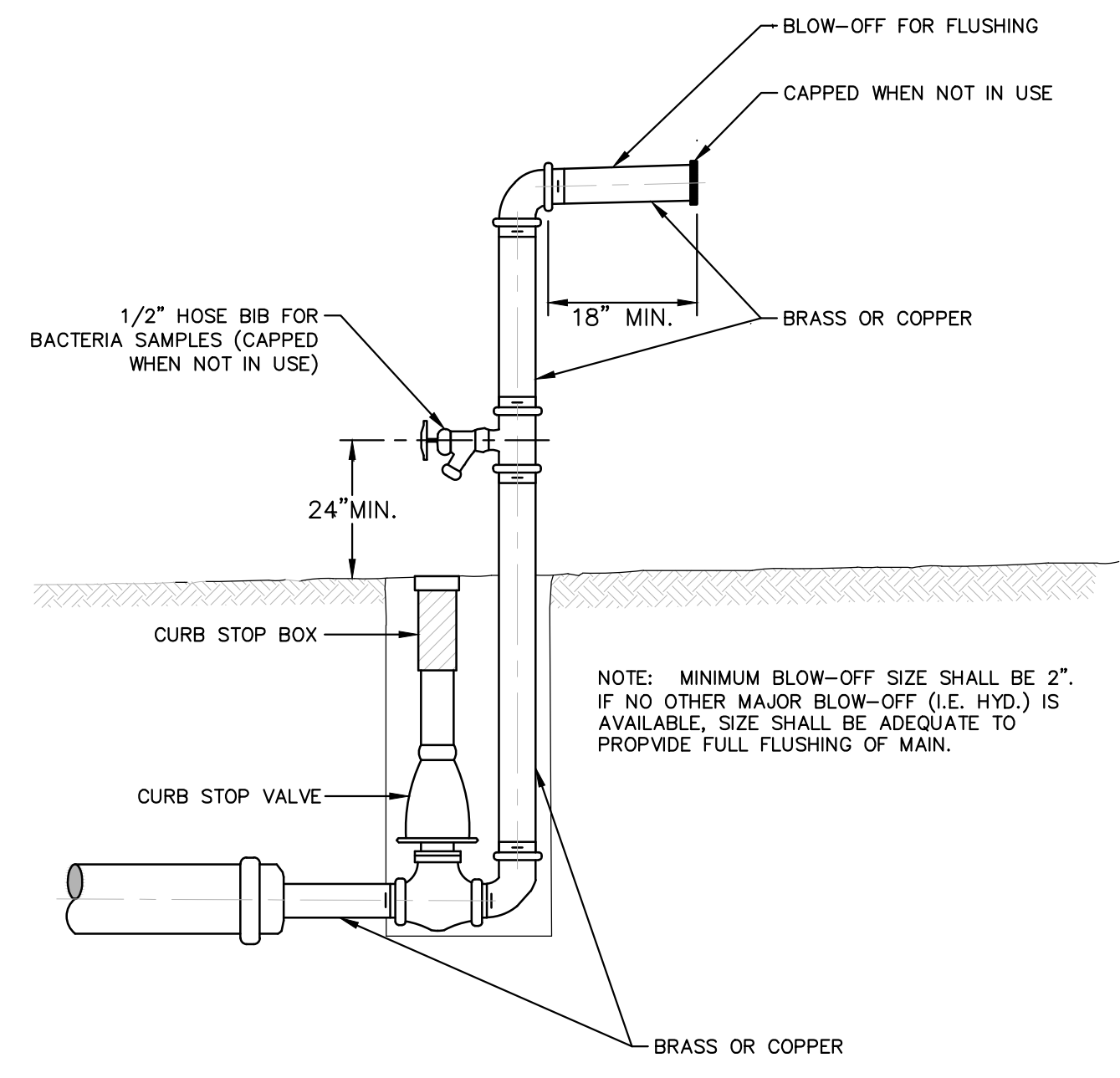
MANHOLE CASTING ADJUSTMENT SD-GU-6

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.



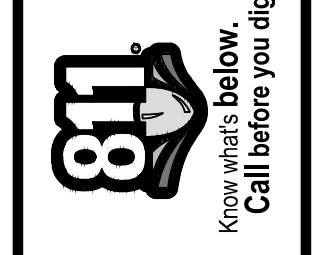
FIRE HYDRANT ASSEMBLY SD-W-1

- 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.



TEMPORARY TESTING BLOW OFF SD-W-7

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.



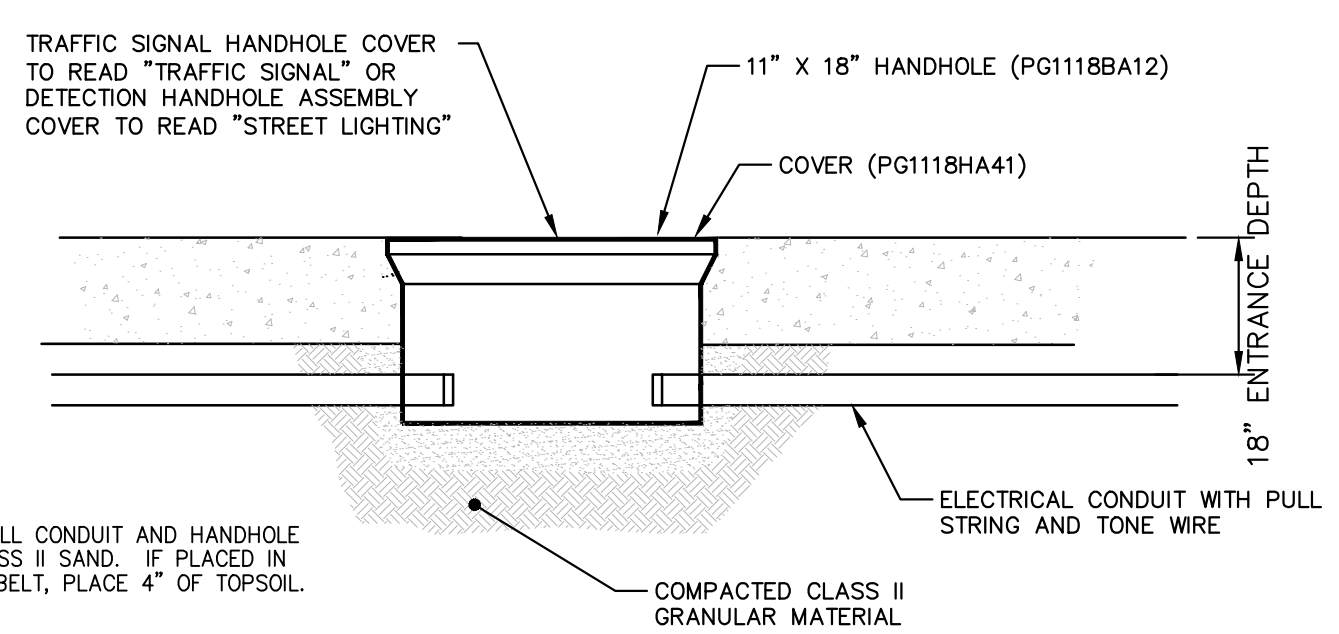
REV.	DATE	DESCRIPTION
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		AG.OS.RG
		DAD
		CHECKED



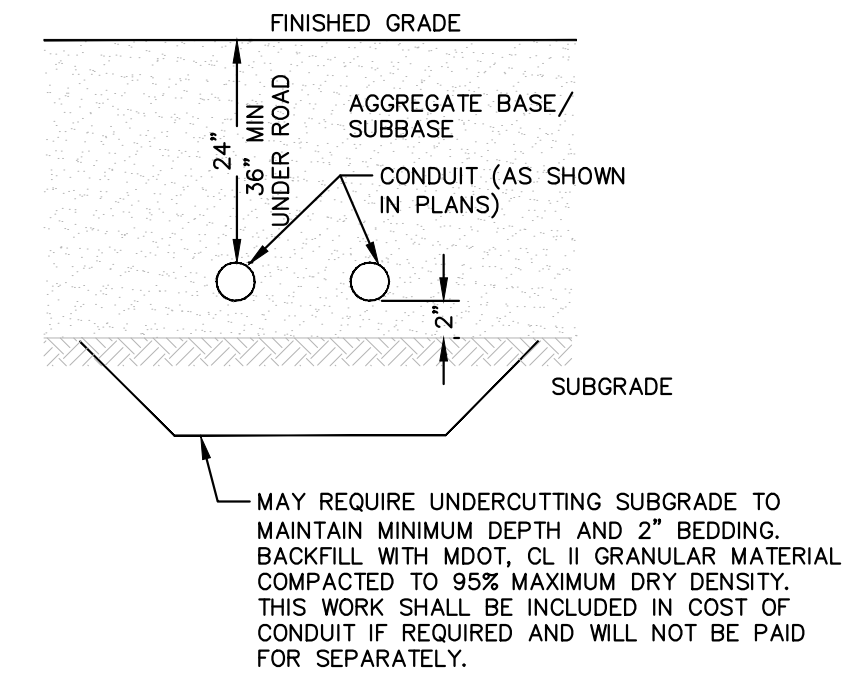
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 ANNUAL STREET RESURFACING - 2017
 WATER DETAIL
 SCALE: NTS
 DRAWING No. 2017004-86
 SHEET No. 86 OF 136

S:\Project Management\Drafting\outocad\2017004\Plan Production\Major Streets\2017004 - S Division Street Detail.dwg Dwg Created: 18-Jan-17 - _a2 standard bw.stb - Plot Date: 8-Mar-17

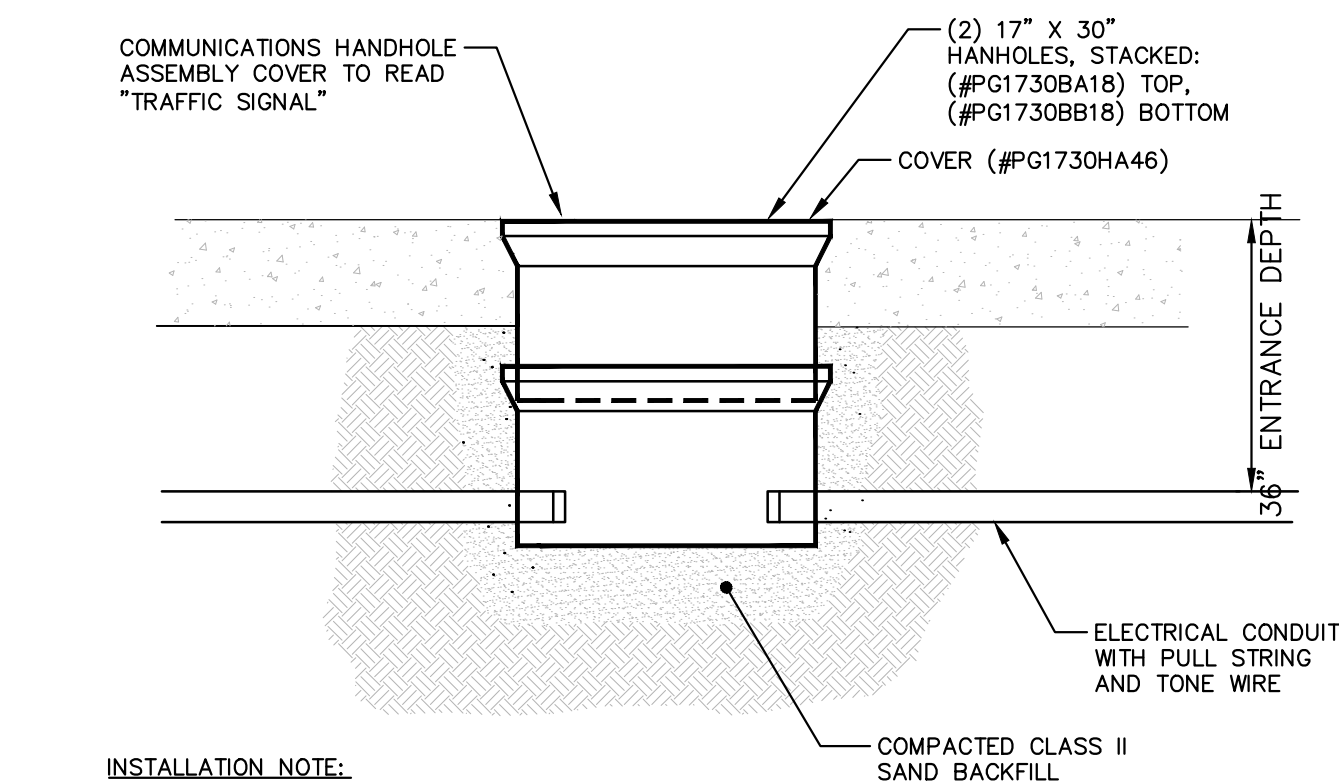
THE CONTRACTOR SHALL PROVIDE THE STREET LIGHTING DISCONNECT BOX/LIGHTING CONTROLLER SHOWN HERE AND AS SPECIFIED IN THE CONTRACT DOCUMENTS.



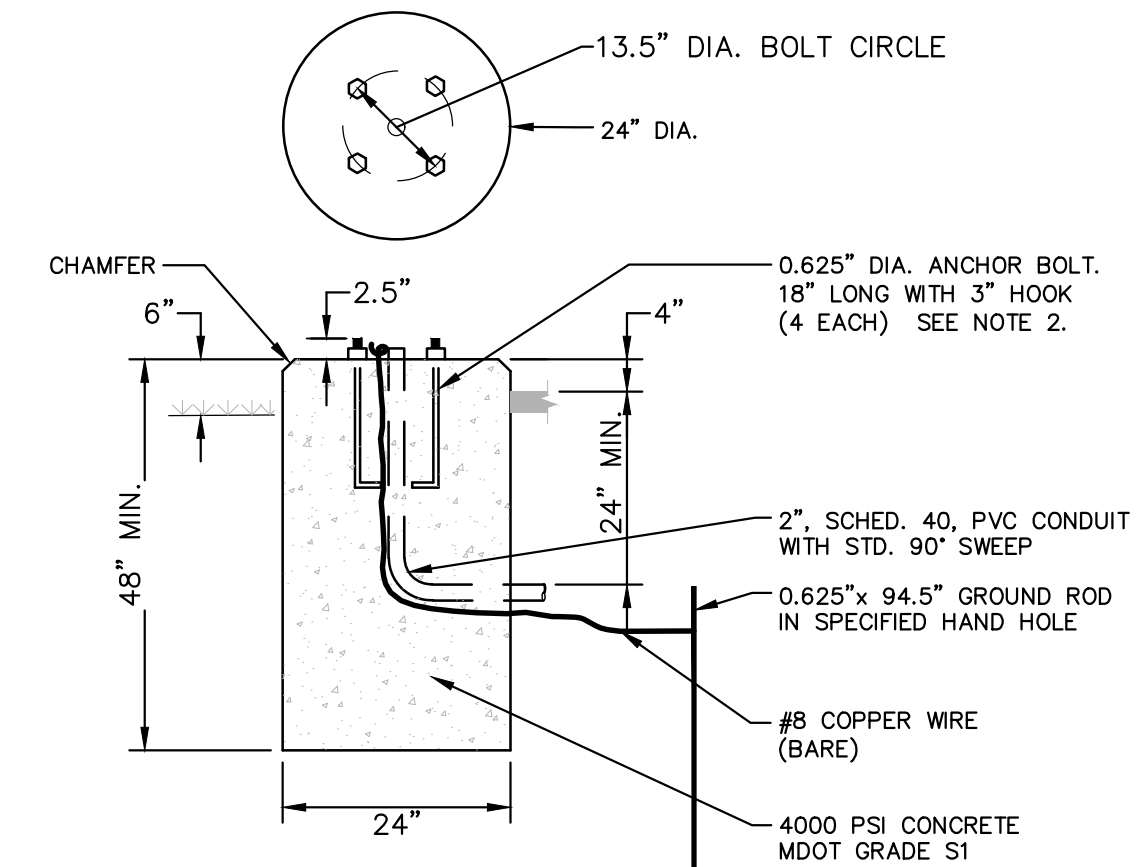
TRAFFIC SIGNAL OR ELECTRICAL HANDHOLE ASSEMBLY



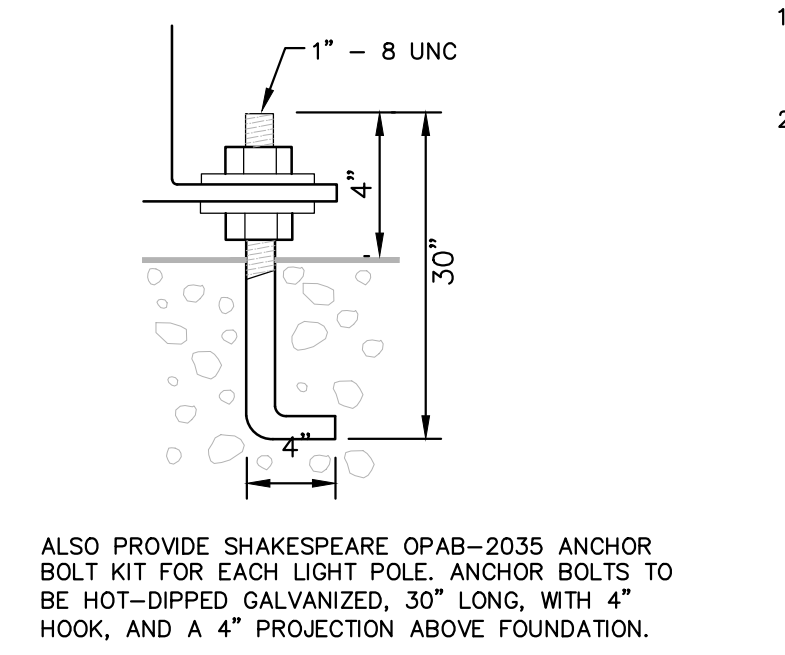
CONDUIT PLACEMENT DETAIL



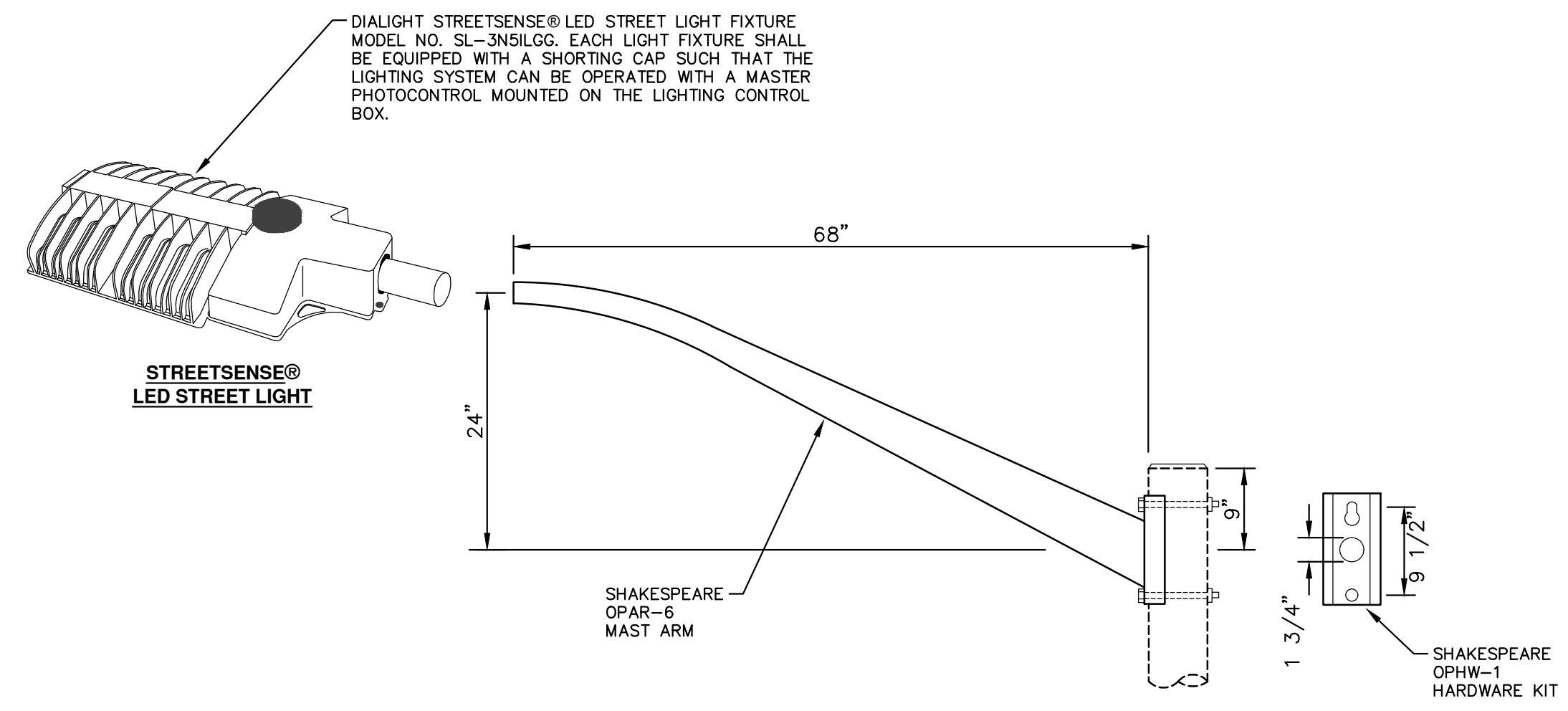
COMMUNICATIONS HANDHOLE ASSEMBLY



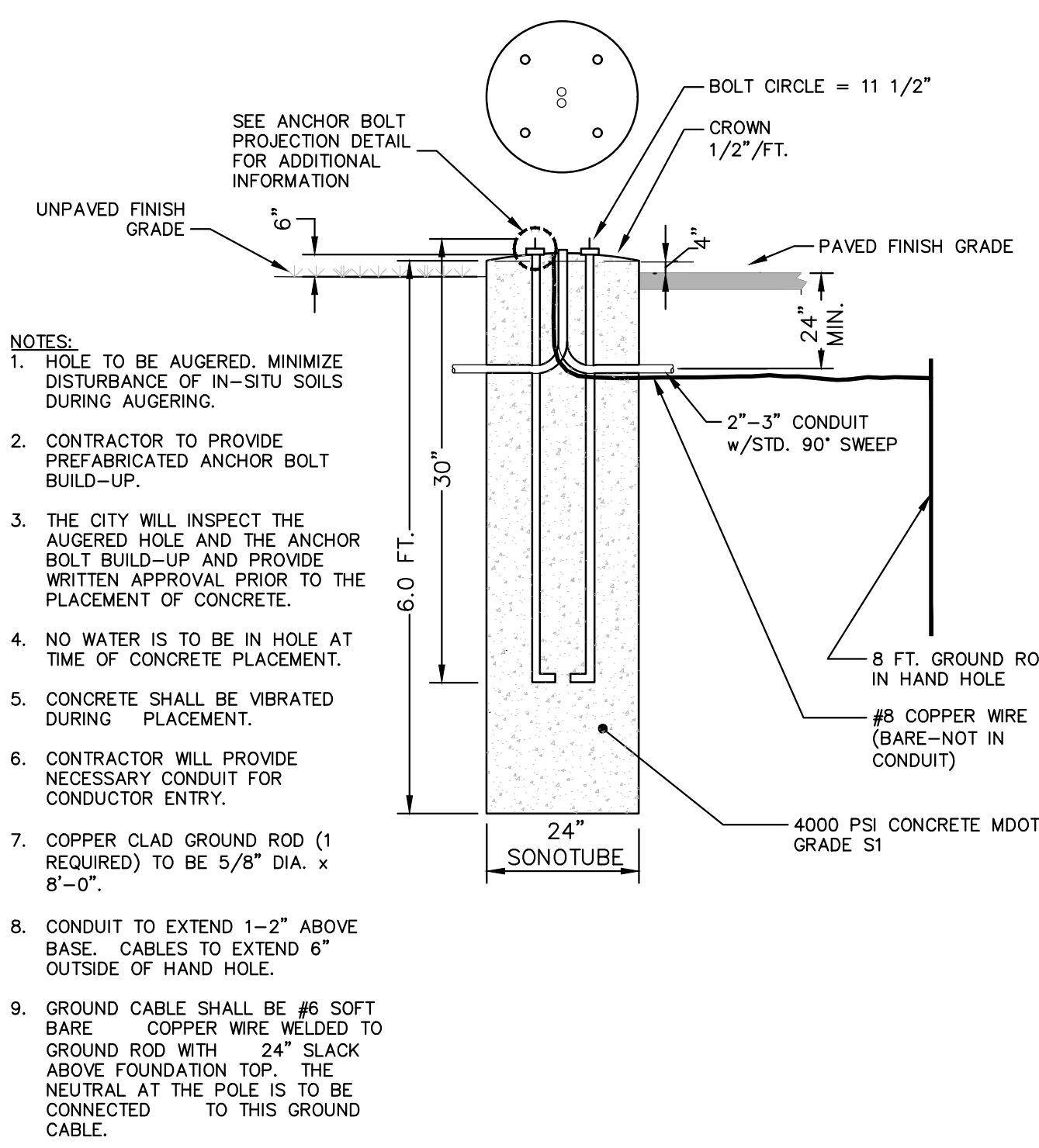
PEDESTRIAN SIGNAL POLE FOUNDATION SD-SL-3



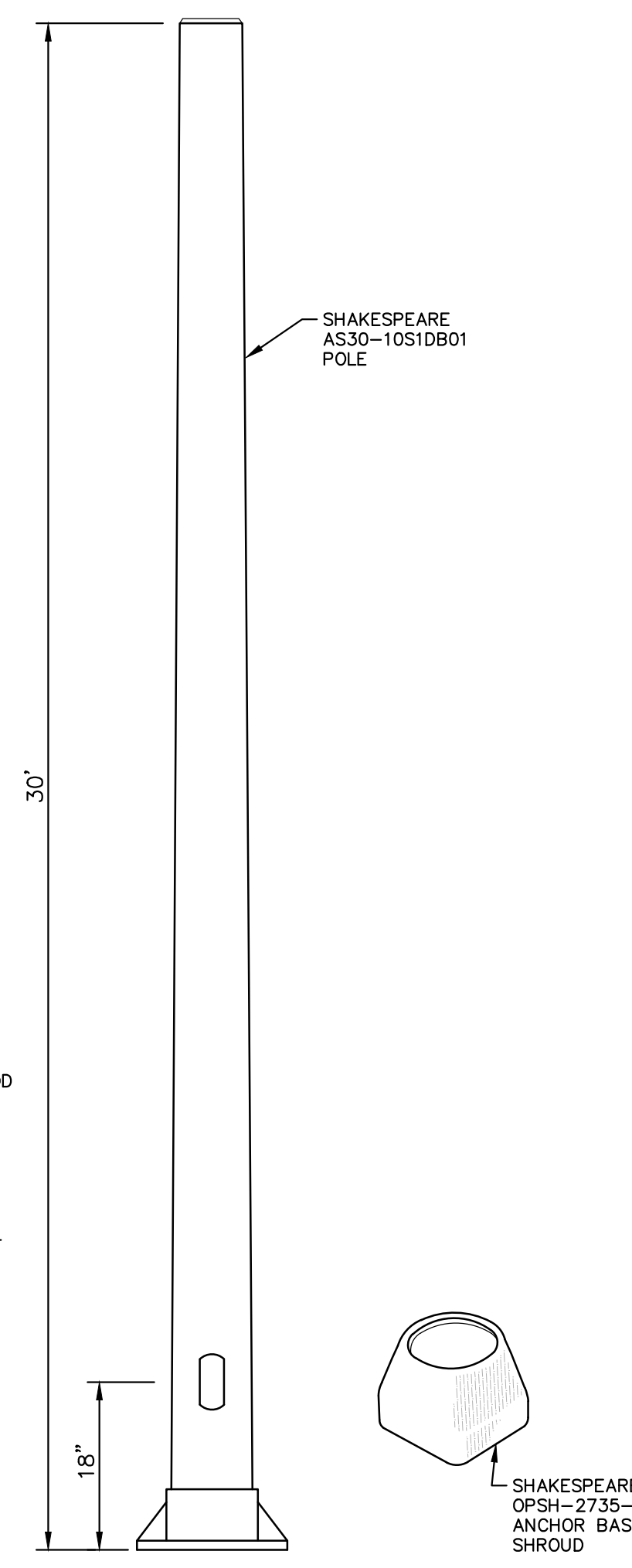
ANCHOR BOLT PROJECTION DETAIL



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."



STREETLIGHT FOUNDATION SD-SL-1



STREETLIGHT DETAIL

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

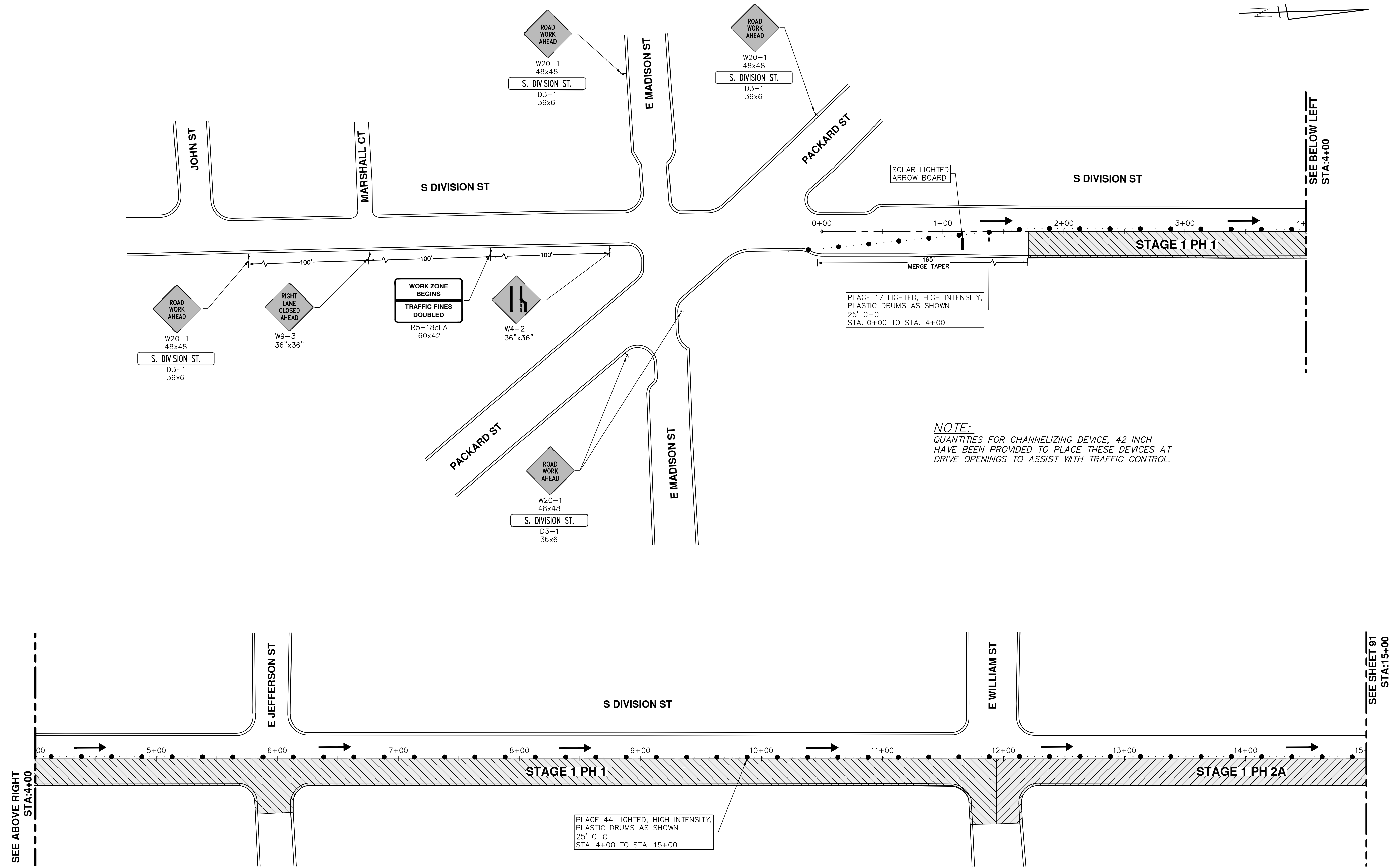
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CITY OF ANN ARBOR

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

SCALE: NTS
DRAWING No. 2017004-87
SHEET No. 87 OF 136

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



REV.	DESCRIPTION
DATE	DRAWN
CHECKED	
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-0667 www.a2gov.org	
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2017 S DIVISION STREET STAGE 1	
SCALE PLAN: 1" = 40' 	DRAWING No. 2017004-88
SHEET No. 88 OF 136	

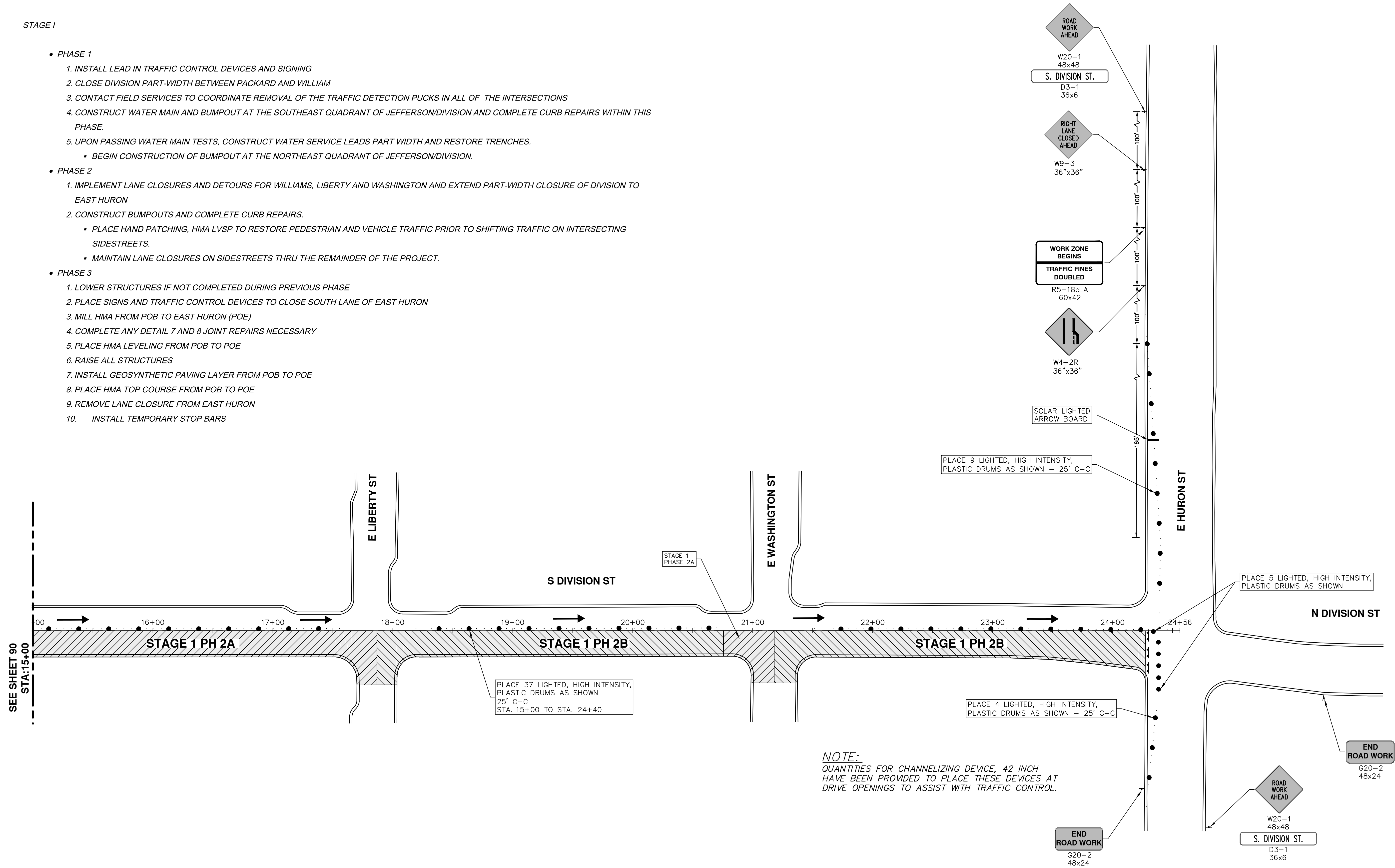
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STAGING NOTES:

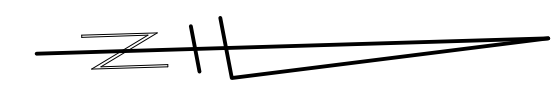
STAGING NOTES:

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.



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ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 STAGE 1

SHEET No. 89 OF 136

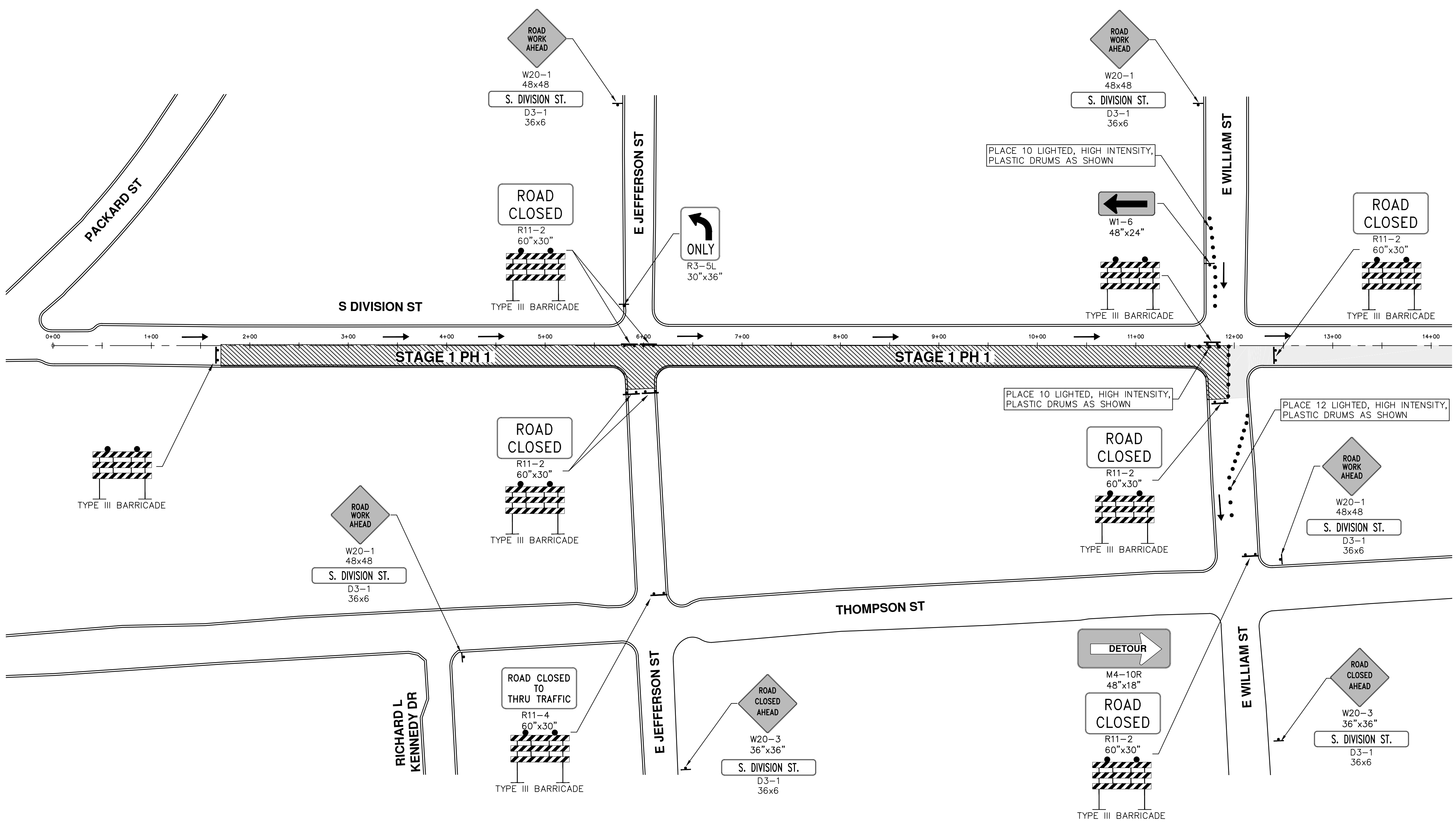
SCALE PLAN: 1" = 40'

DRAWING No. 2017004-89

END ROAD WORK
G20-2
48x24

ROAD WORK AHEAD
W20-1
48x48
S. DIVISION ST.
D3-1
36x6

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

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

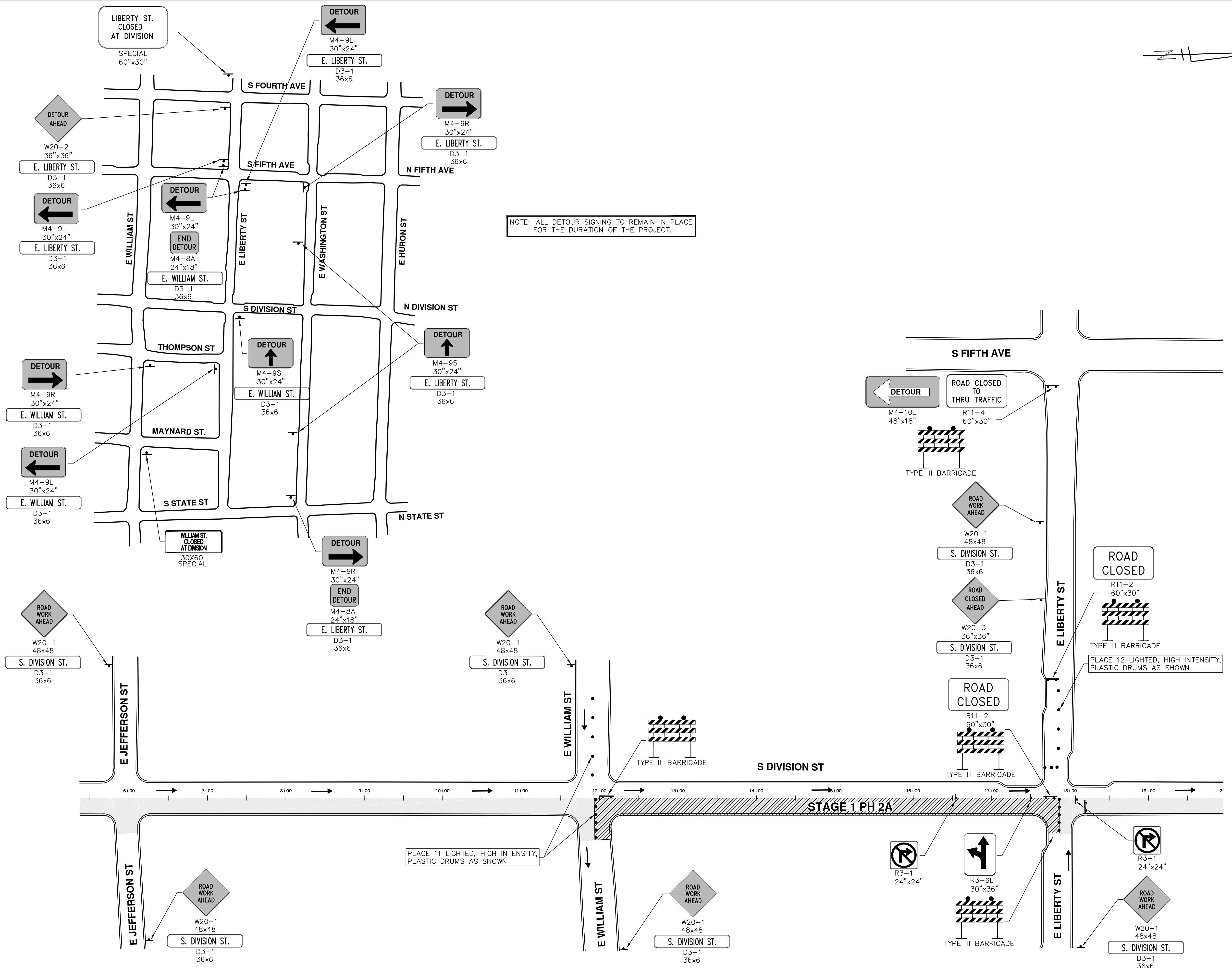
SHEET No. 90 OF 136

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 INTERSECTION PHASING - STAGE 1 PHASE 2A

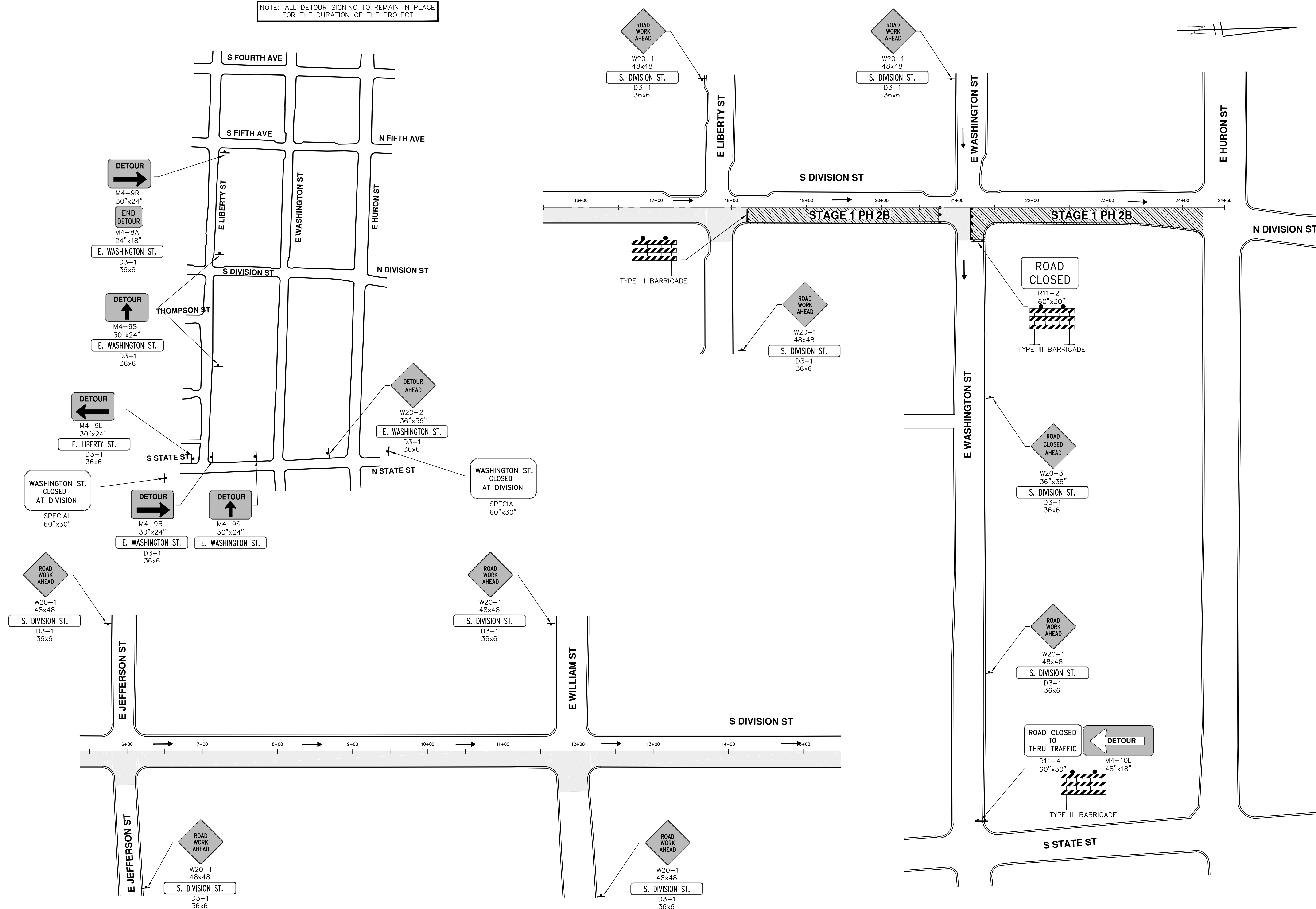
SCALE PLAN: 1" = 60'
 DRAWING NO. 2017004-91
 SHEET NO. 91 OF 136

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 PUBLIC SERVICES
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 ANN ARBOR: 734/794-4410
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NOTE: ALL DETOUR SIGNING TO REMAIN IN PLACE FOR THE DURATION OF THE PROJECT.



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CITY OF ANN ARBOR

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

ANNUAL STREET RESURFACING - 2017

S DIVISION STREET

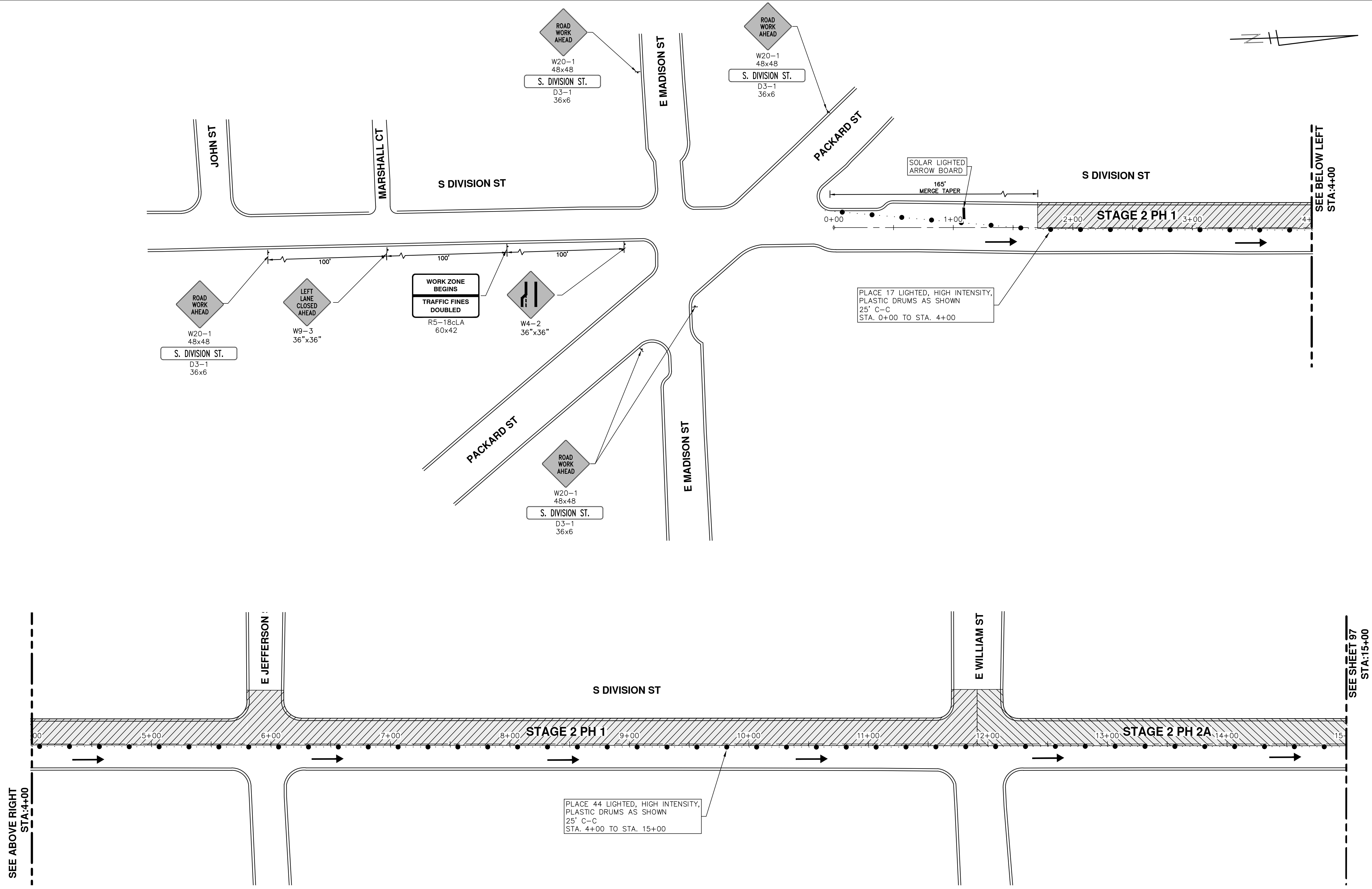
INTERSECTION PHASING - STAGE 1 PHASE 2B

SCALE PLAN: 1" = 60'

DRAWING No. 2017004-93

SHEET No. 93 OF 136

S:\Project_Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - S Division Street TRFC STAGE 2.dwg Dwg Created: 20-Jan-17 - _s2 standard bw.stb - Plot Date: 8-Mar-17



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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ANN ARBOR MI 48106-8647
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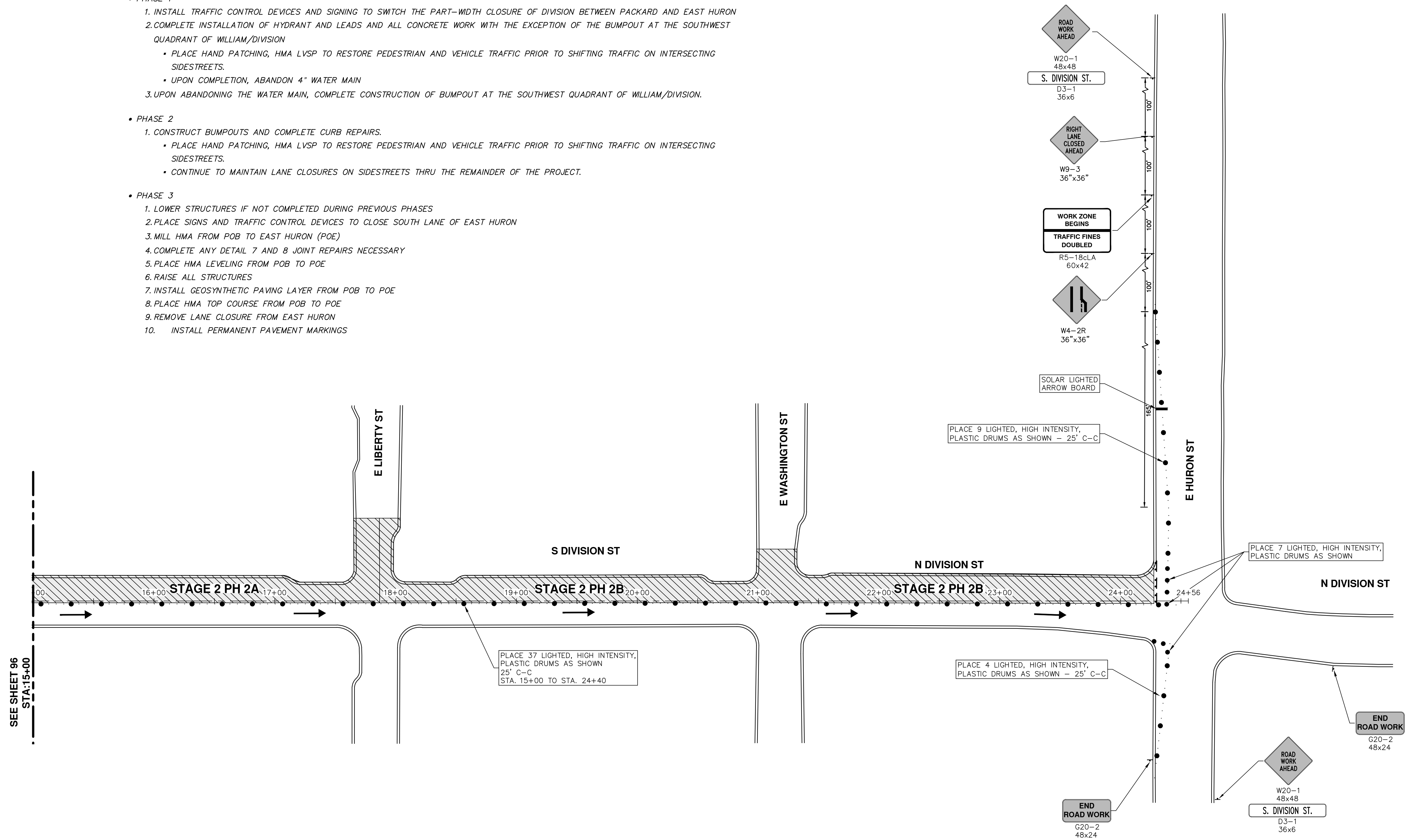
CITY OF ANN ARBOR

SHEET No. 94 OF 136

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

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

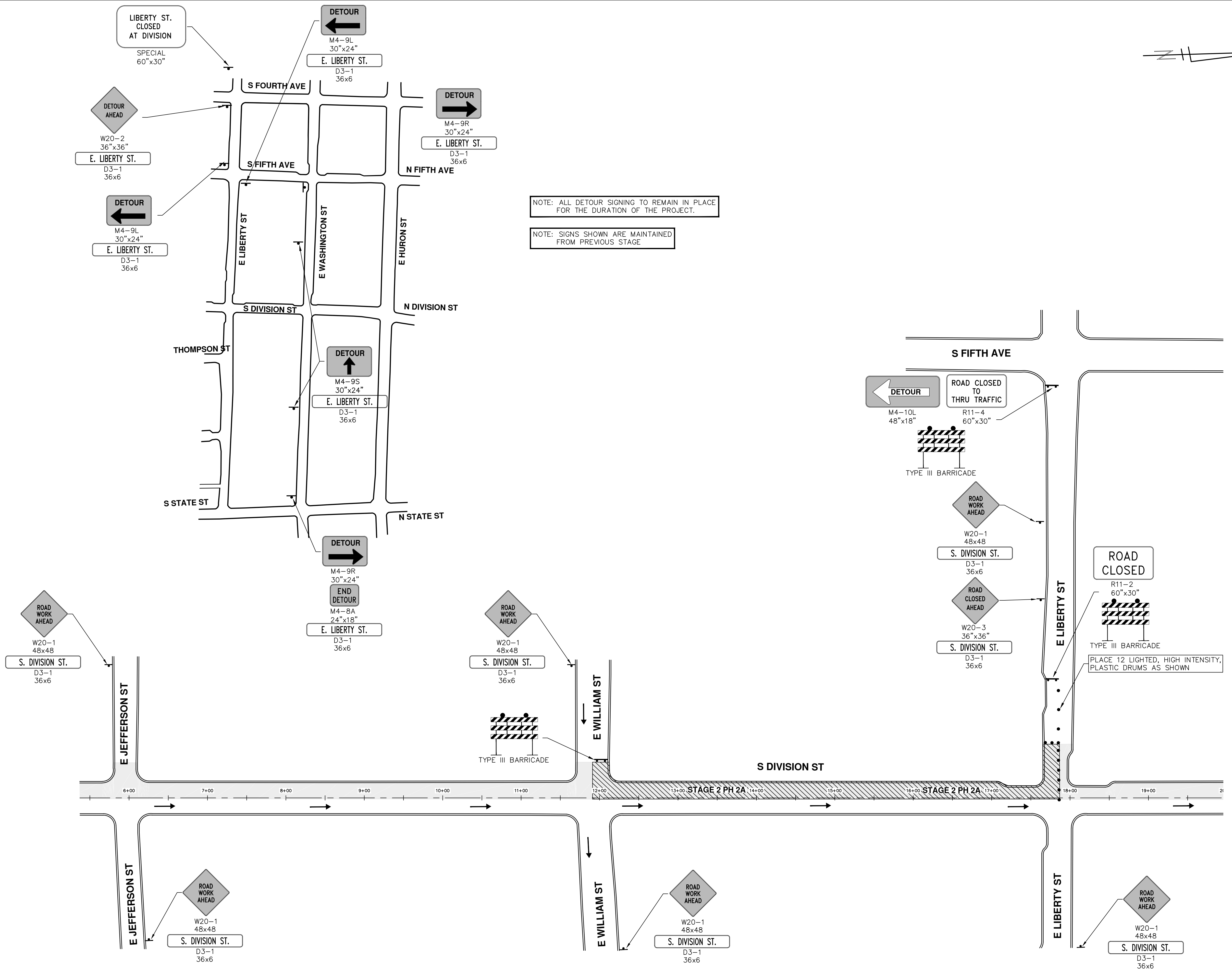
STAGE 2
S DIVISION STREET

SHEET No. **95 OF 136**

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

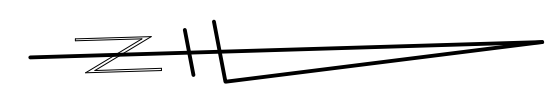
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S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - S Division Street TRFC STAGE 2 PH 2A.dwg Dwg Created: 20-Jan-17 - _a2 standard bw.stb - Plot Date: 8-Mar-17



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

NOTE: SIGNS SHOWN ARE MAINTAINED FROM PREVIOUS STAGE



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

DATE: 03-08-2017
DRAWN: AG.GSRG
CHECKED: DAD

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

REV. DESCRIPTION

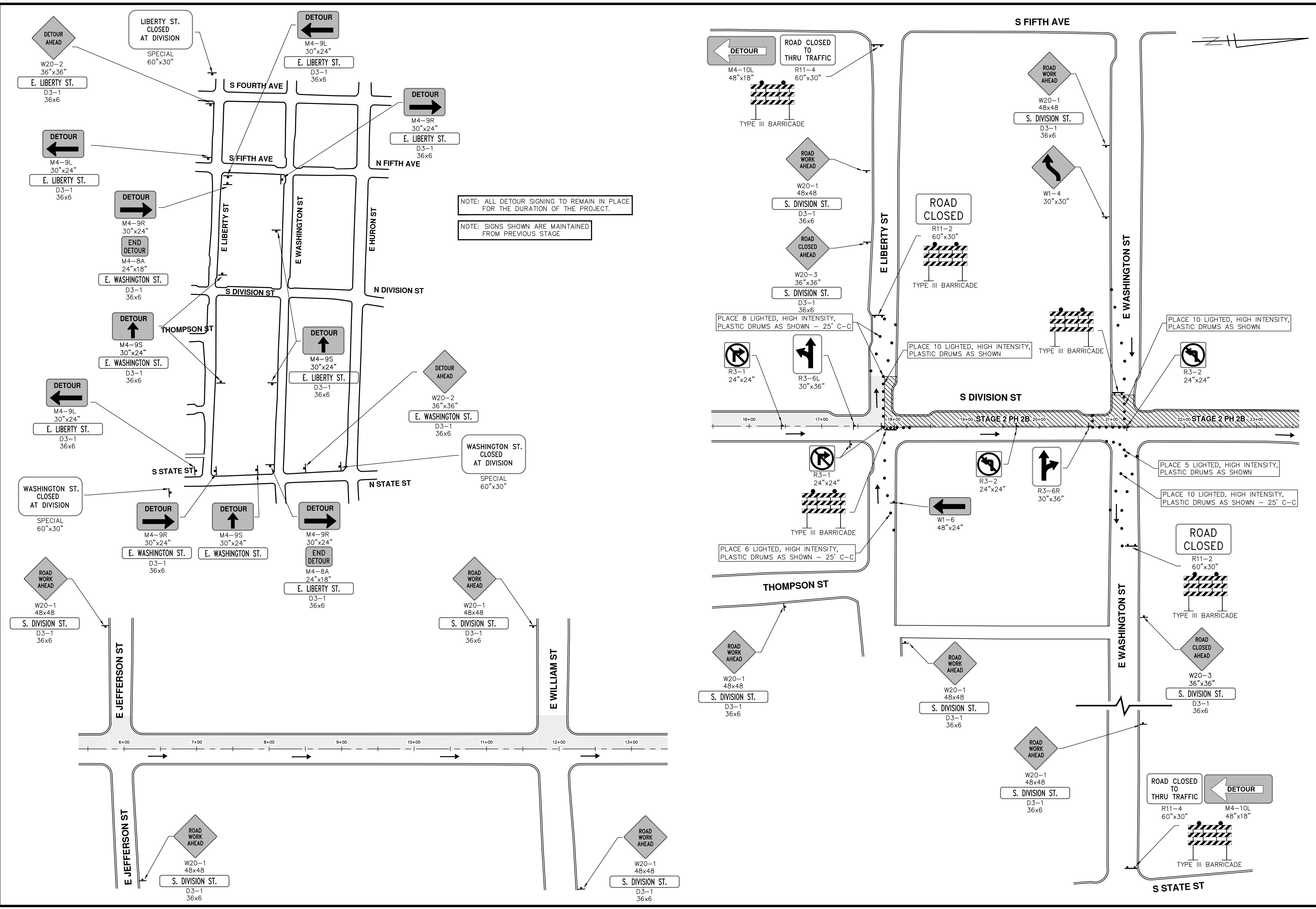
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017

INTERSECTION PHASING - STAGE 2 PHASE 2A

SHEET No. 96 OF 136

DRAWING No. 2017004-96

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: 8-Mar-17



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

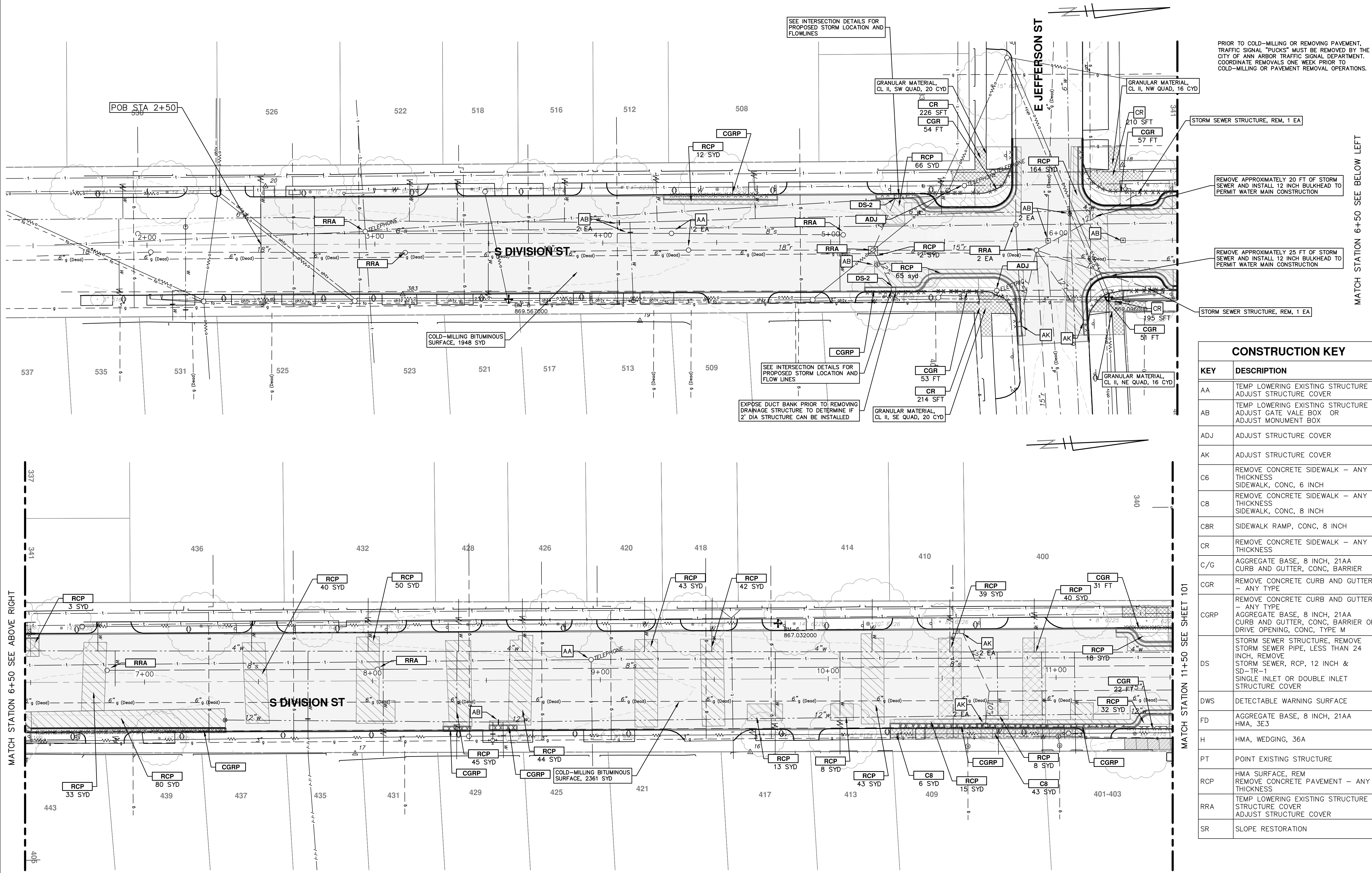
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.GSRG	DAD

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
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

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - S Division Street REM.dwg Dwg Created: 18-Jan-17 - _c2_standard bw.stb - Plot Date: 8-Mar-17



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.

MATCH STATION 6+50 SEE BELOW LEFT

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

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

DATE: 03-08-2017
DRAWN: AG.GSRG
CHECKED: DAD

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

DESCRIPTION: REV. 00 BID SET

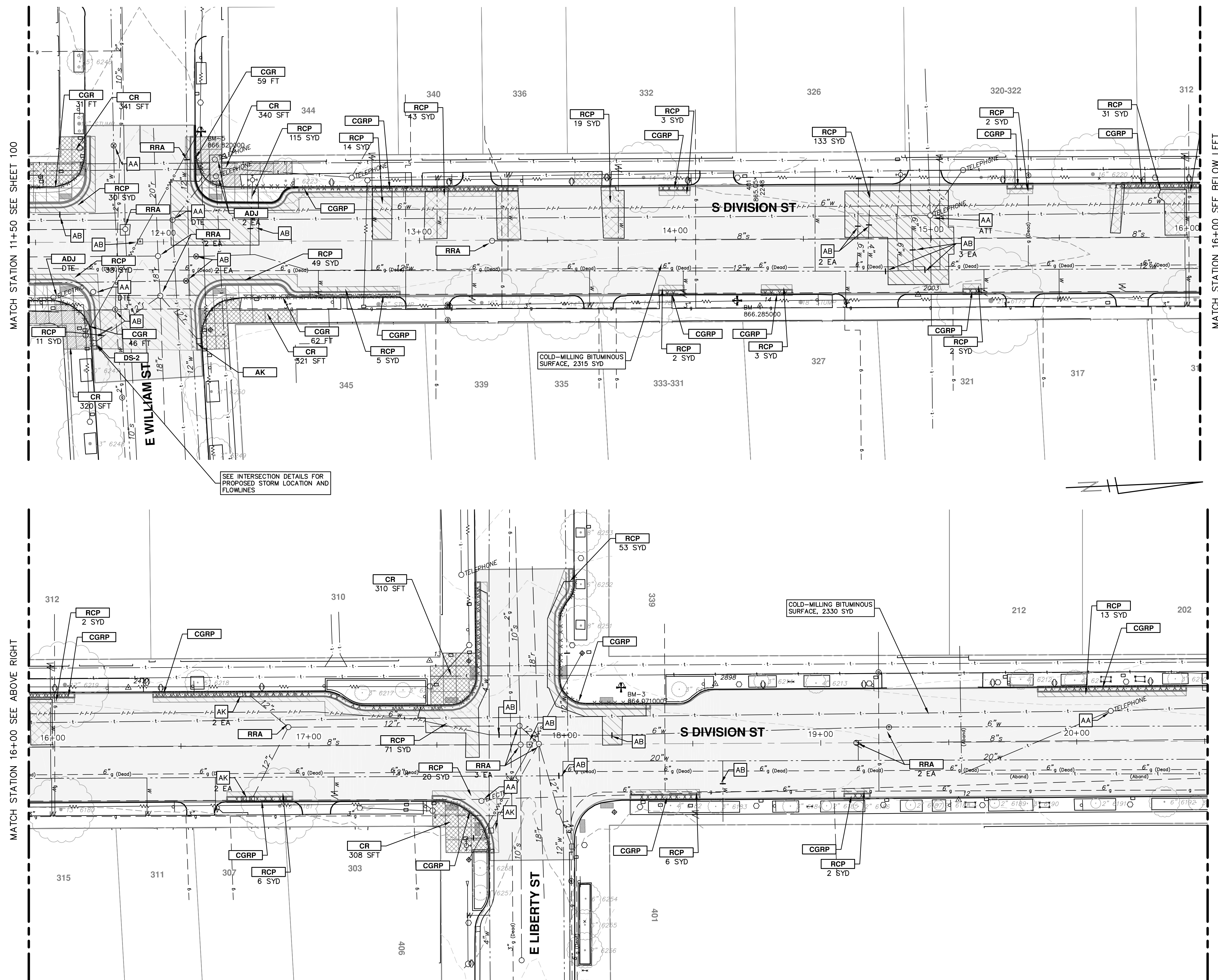
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S DIVISION STREET
REM 1+50 TO 11+50

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2017004-98

SHEET No. 98 OF 136

DATE: 03-08-2017
DRAWN: AG.GSRG
CHECKED: DAD

S:\Project Management\Drafting\outocad\2017004\Plan Production\Major Streets\2017004 - S Division Street REM.dwg Dwg Created: 18-Jan-17 - _02 standard bw.stb - Plot Date: 8-Mar-17



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

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

DATE: 03-08-2017
DRAWN: AG.GS.RG
CHECKED: DAD

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

DESCRIPTION: REV. 00 BID SET

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

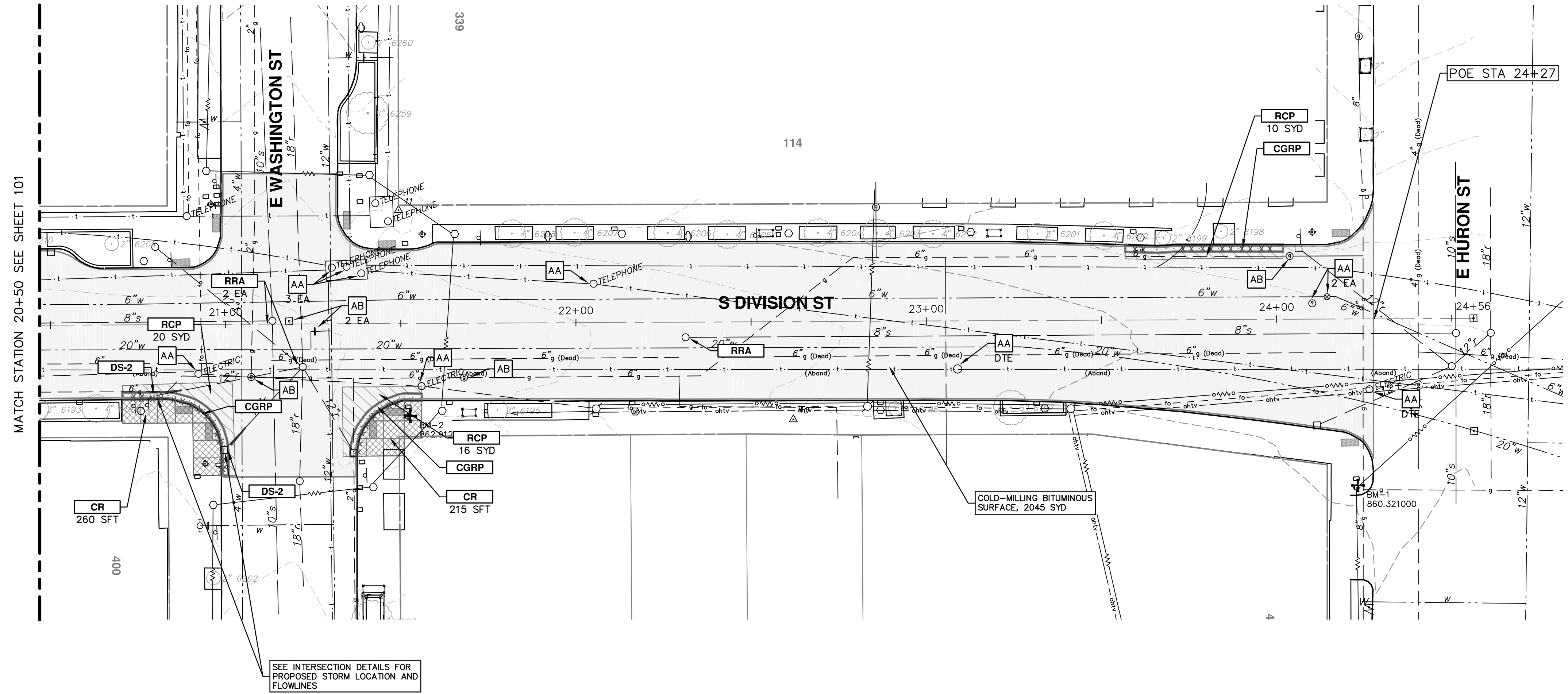
DESCRIPTION: REV. 00 BID SET

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

ANNUAL STREET RESURFACING - 2017
S DIVISION STREET
REM 11+50 TO 20+50

SHEET No. 99 OF 136

DRAWING No. 2017004-99



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

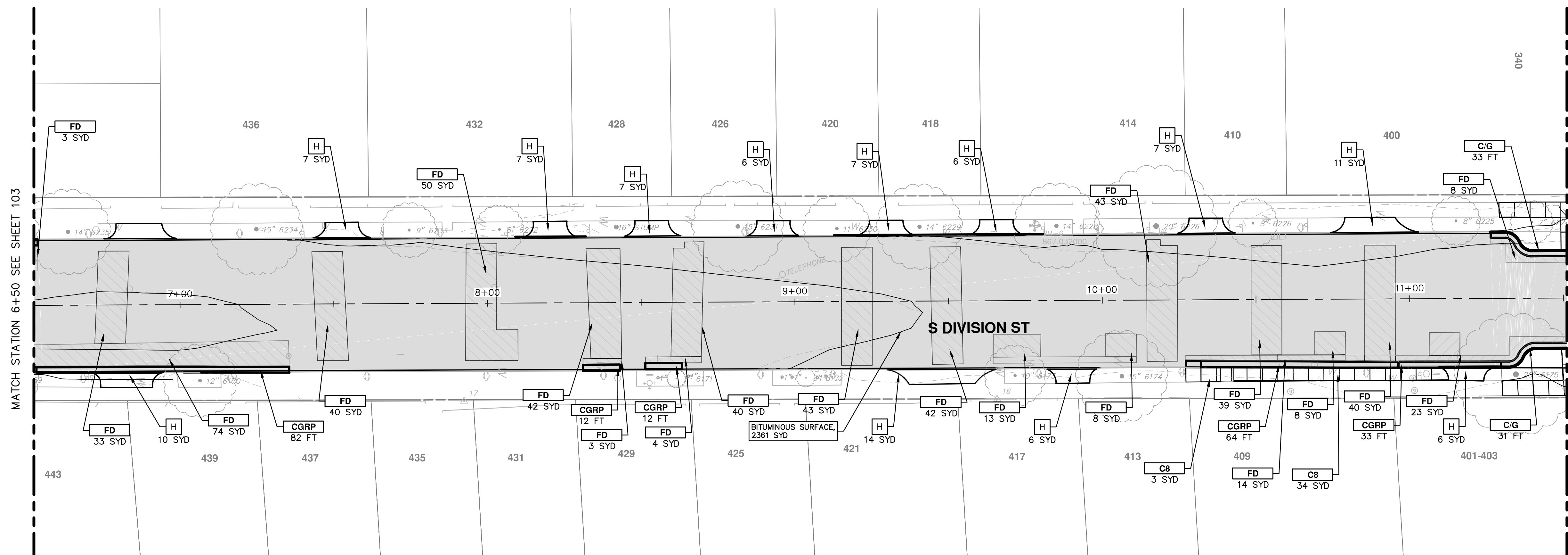
SHEET No. 100 OF 136

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

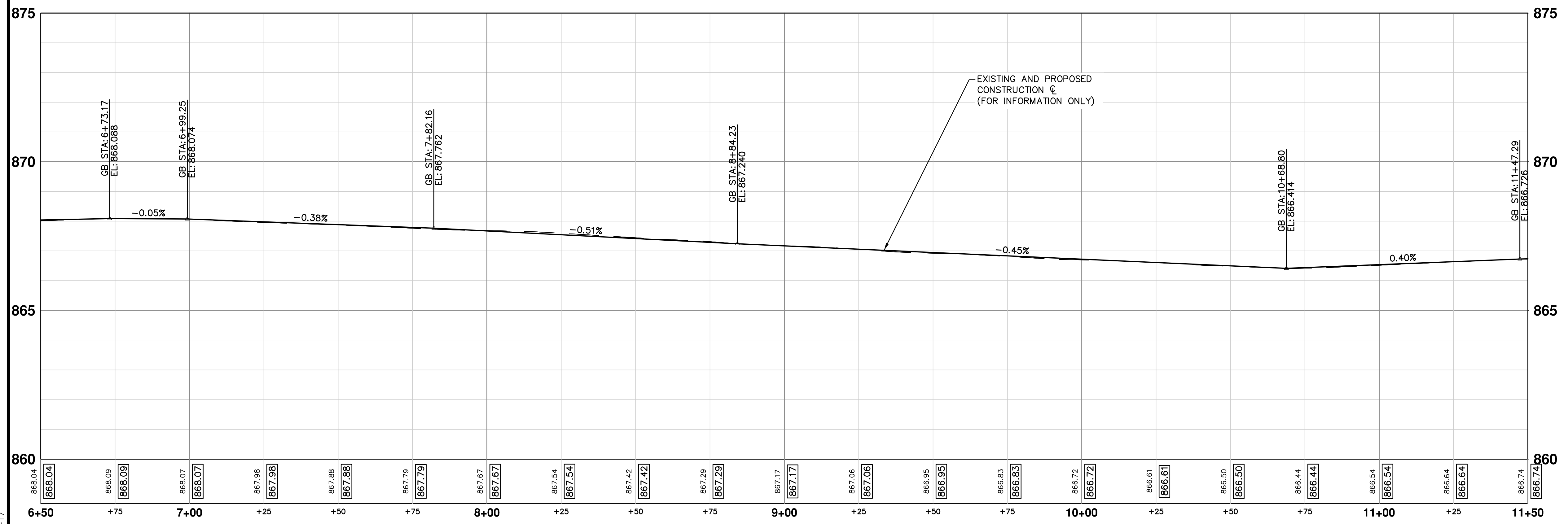
CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-6647
 WWW.ANARBOR.MI.GOV

ANN ARBOR MICHIGAN CITY

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG,CS,RG	DAD



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

REV. DESCRIPTION

00	BID SET	03-08-2017	DATE	AG.GSRG	DRAWN	DAD	CHECKED
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CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-0667
www.a2gov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

ANNUAL STREET RESURFACING - 2017

S DIVISION STREET

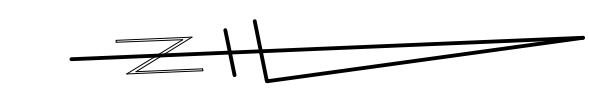
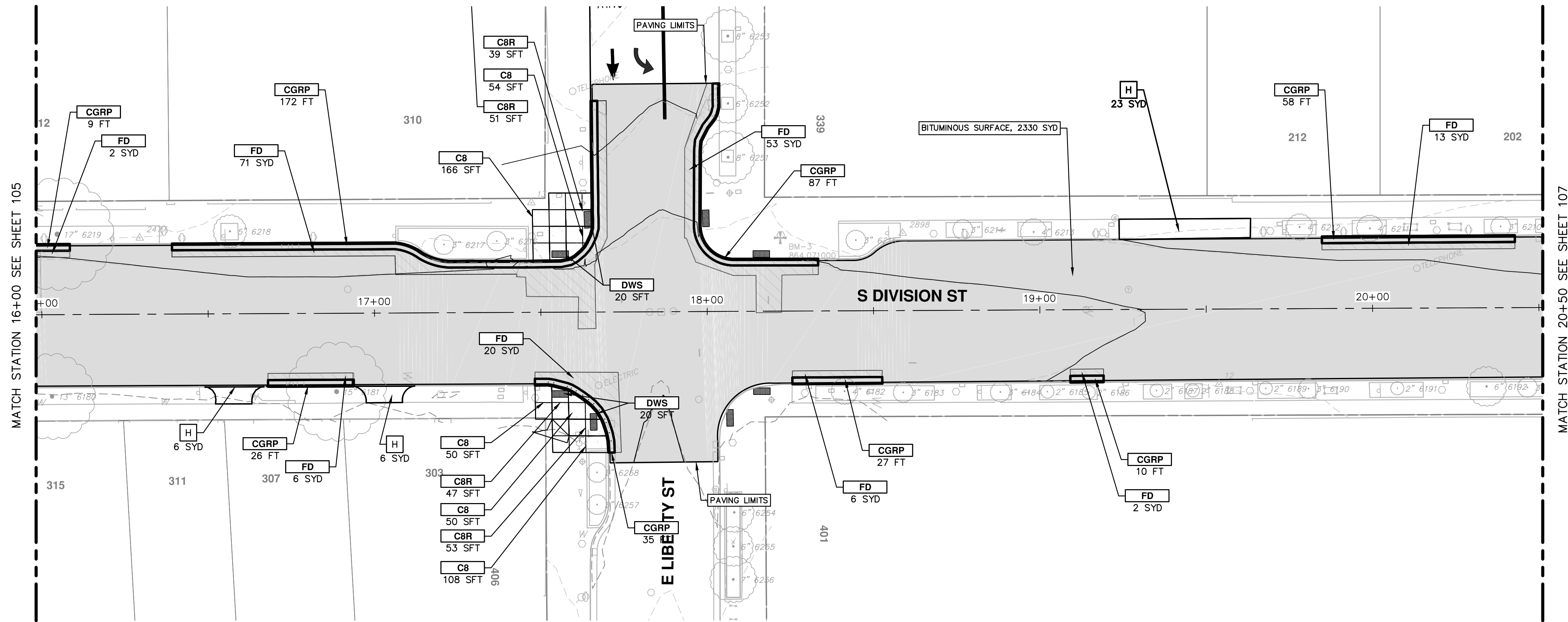
ROAD 6+50 TO 11+50

SHEET No. 102 OF 136

SCALE PLAN: 1" = 20'

PROFILE: 1" = 2'

DRAWING No. 2017004-102



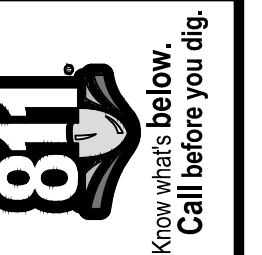
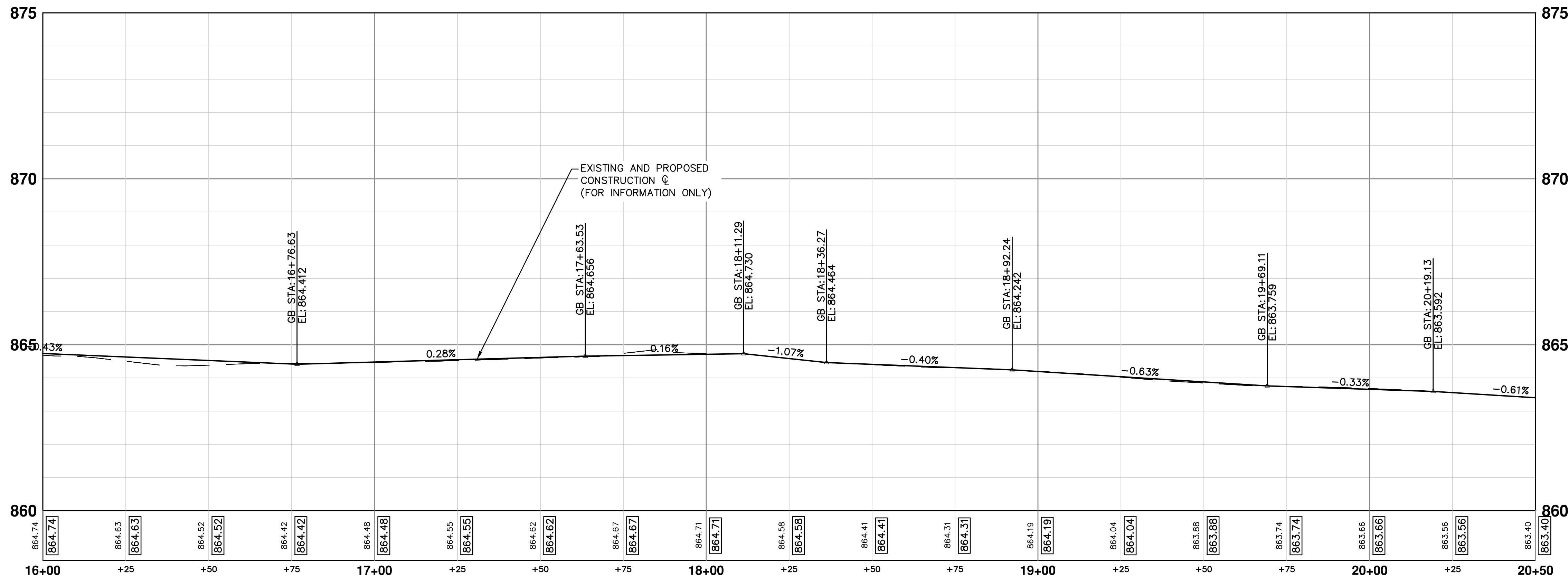
NOTES

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
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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)

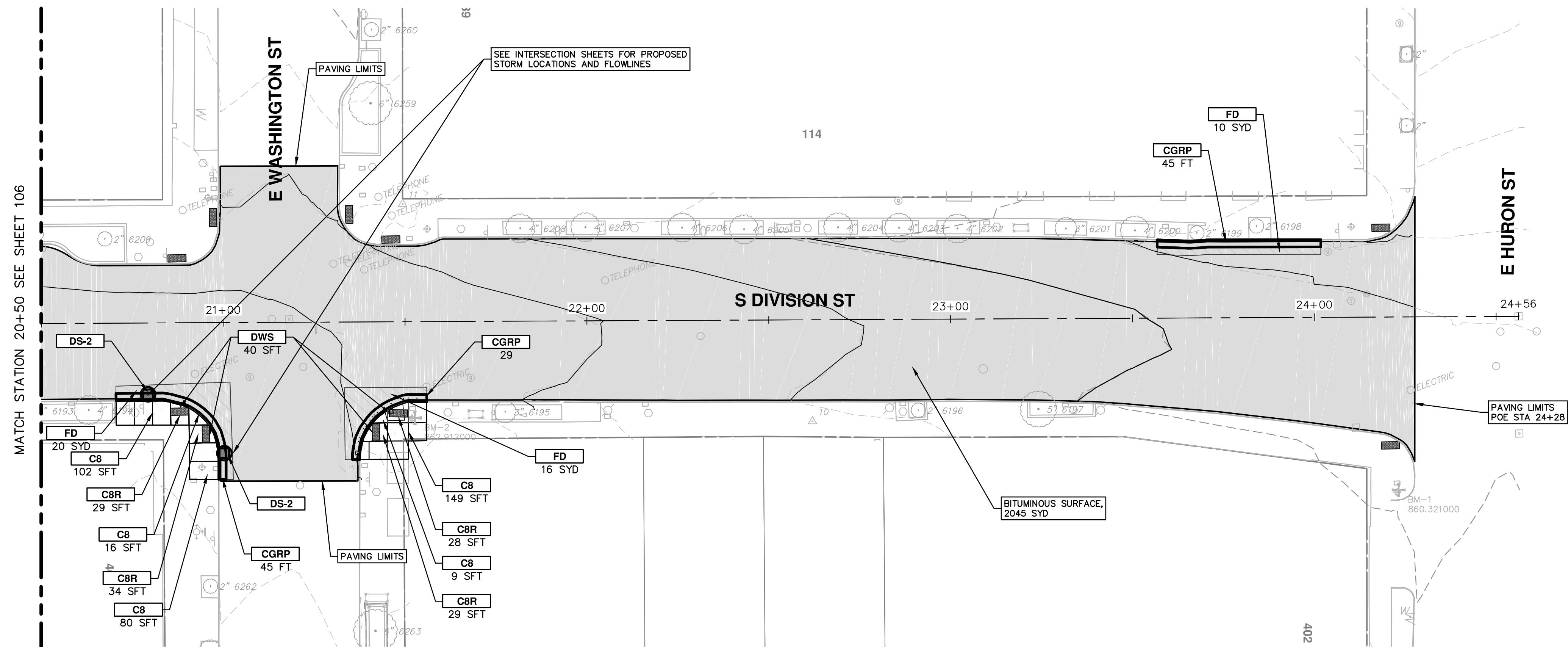


REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.GSRG	DAD

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 16+00 TO 20+50

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2017004-104



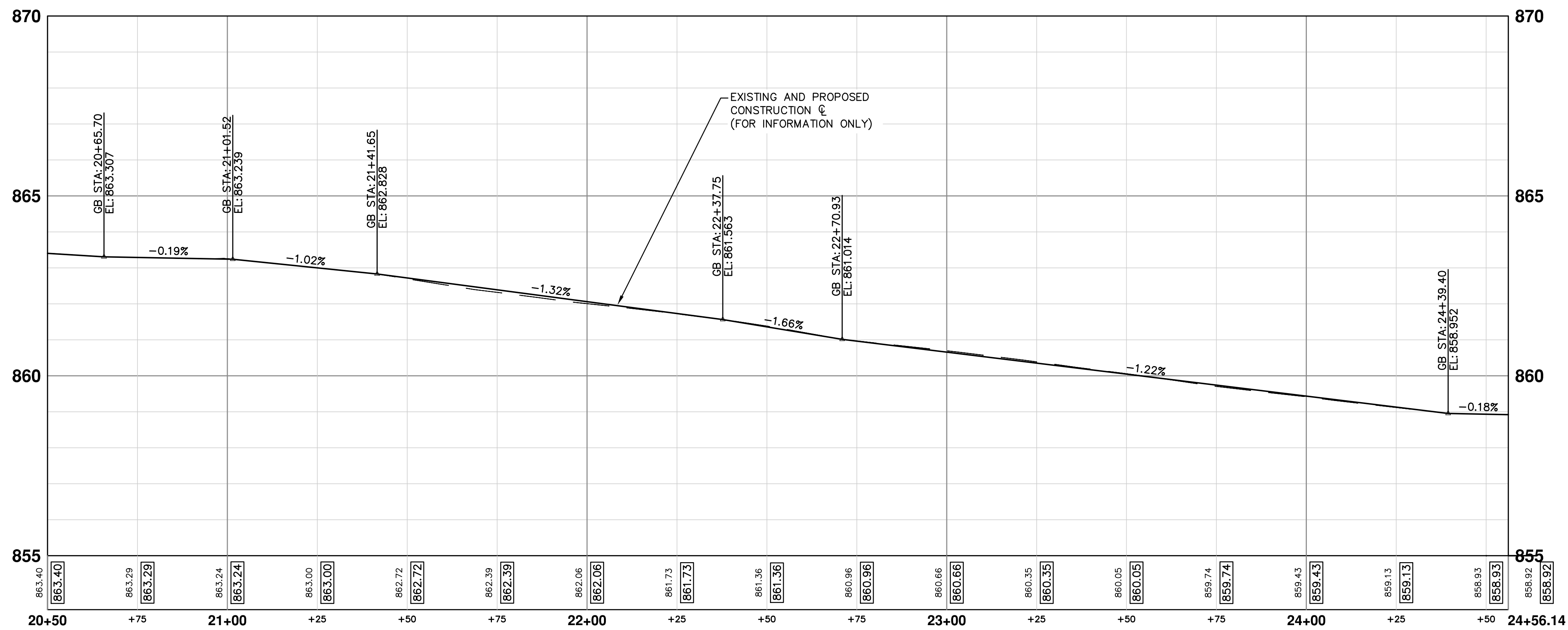
NOTES

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

DIVISION (1)



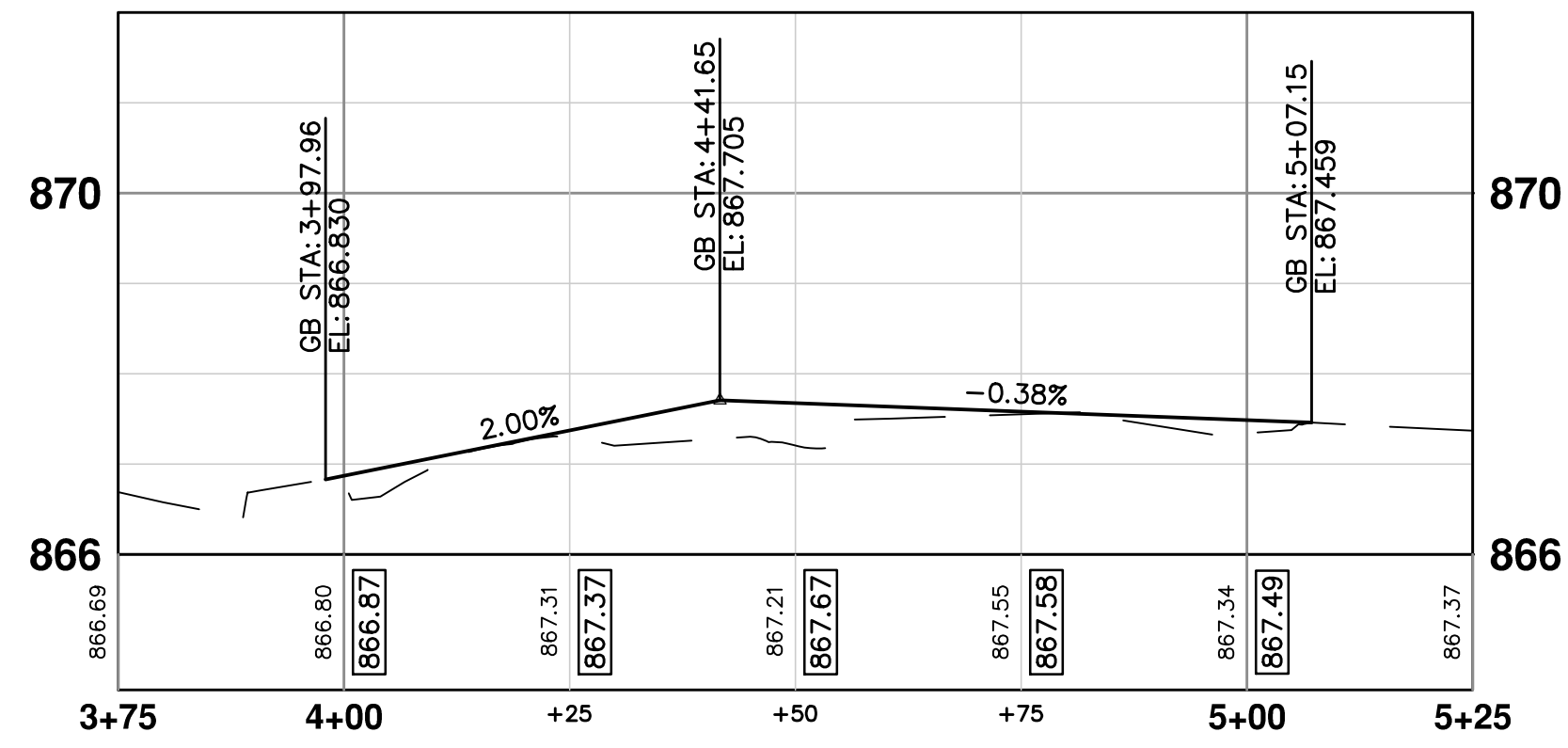
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
PO BOX 86610
ANN ARBOR MI 48108-8647
www.a3gov.org



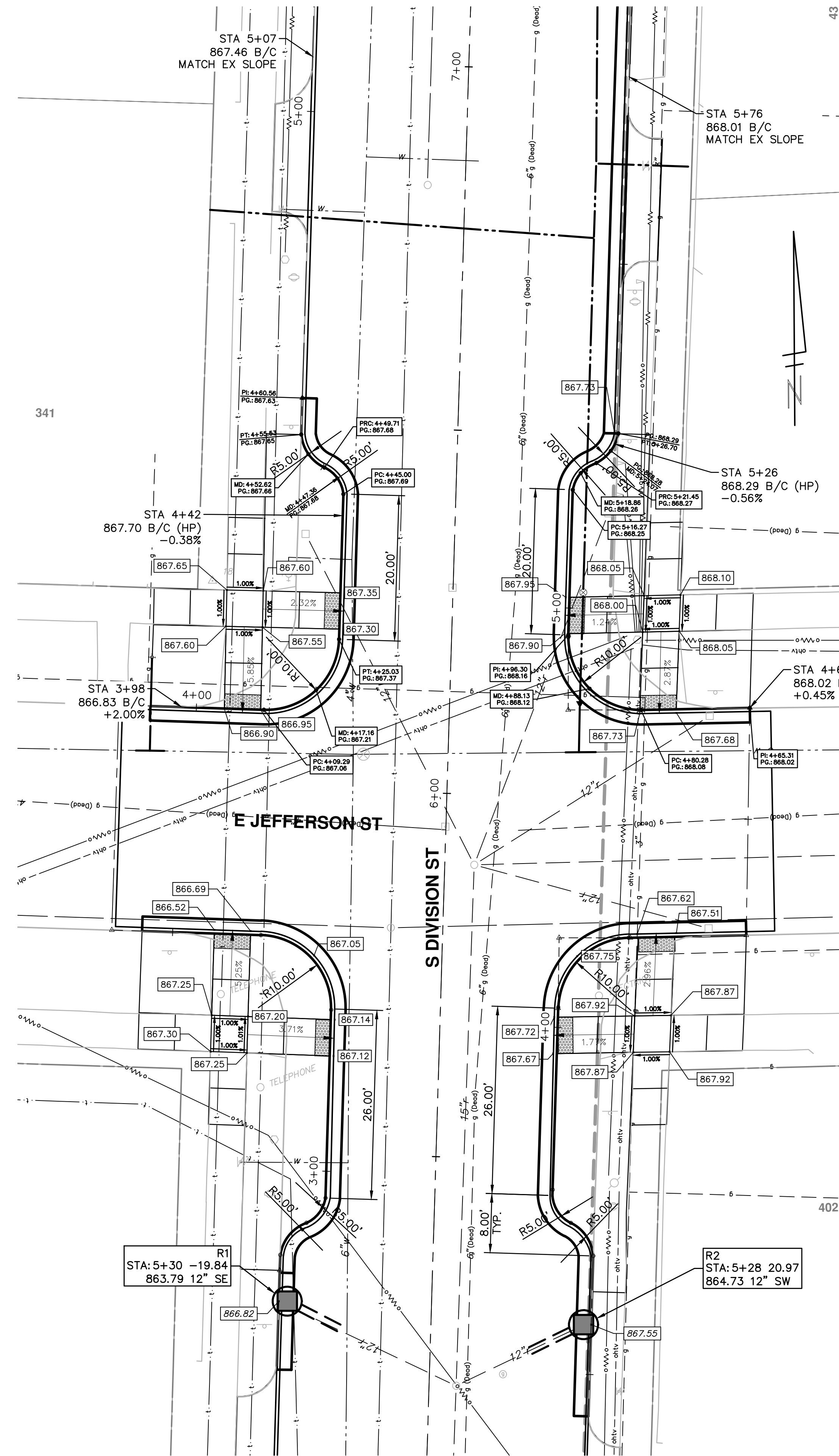
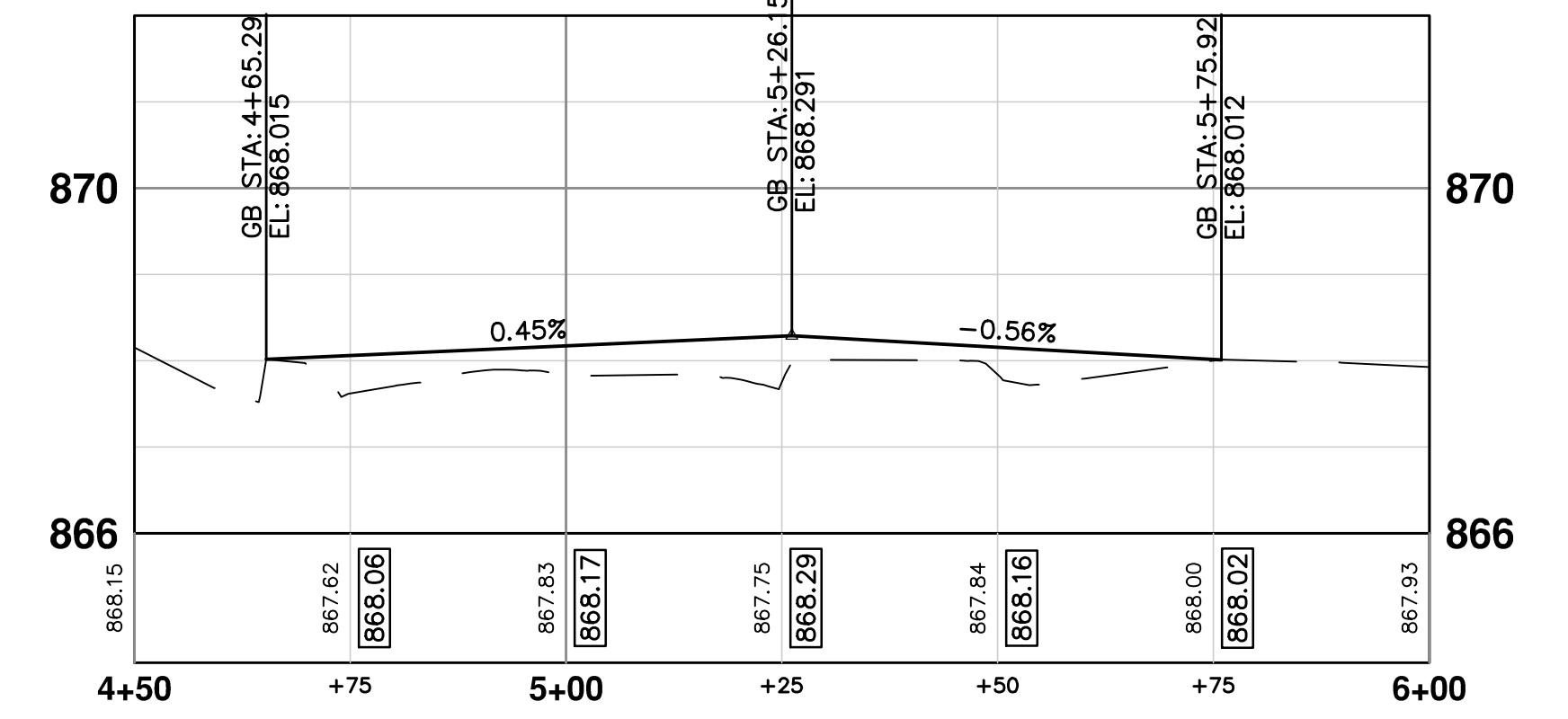
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S DIVISION STREET
ROAD 20+50 TO 24+50

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

LEFT BOC (1)



RIGHT BOC

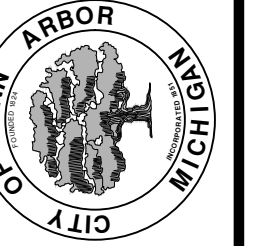


NOTES

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



CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-0647
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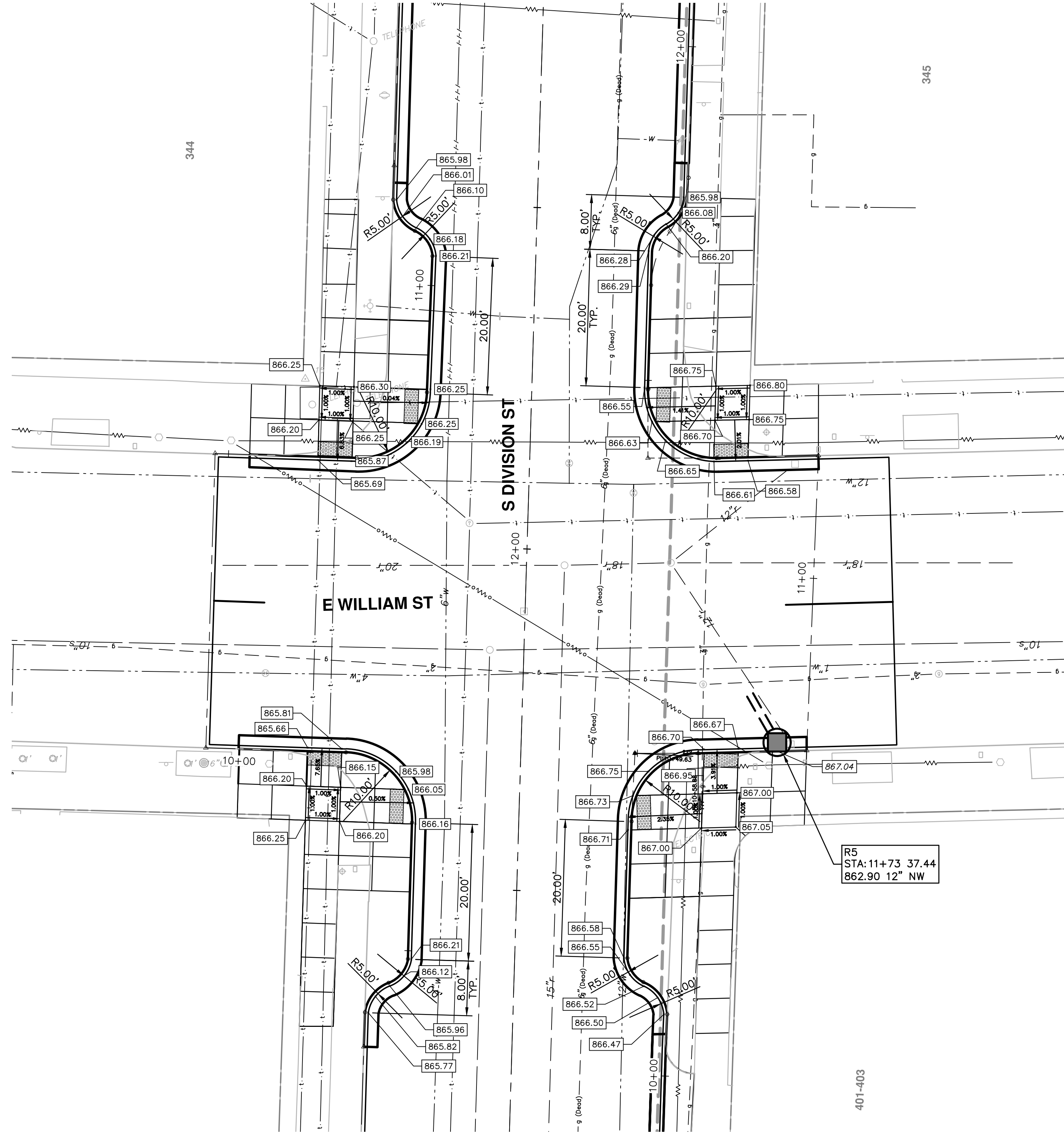


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S DIVISION STREET
JEFFERSON ST

SHEET No. 106 OF 136
SCALE PLAN: 1" = 10'
PROFILE: 1" = 2'
DRAWING No. 2017004-106

REV. DESCRIPTION

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.OS.RG	DAD

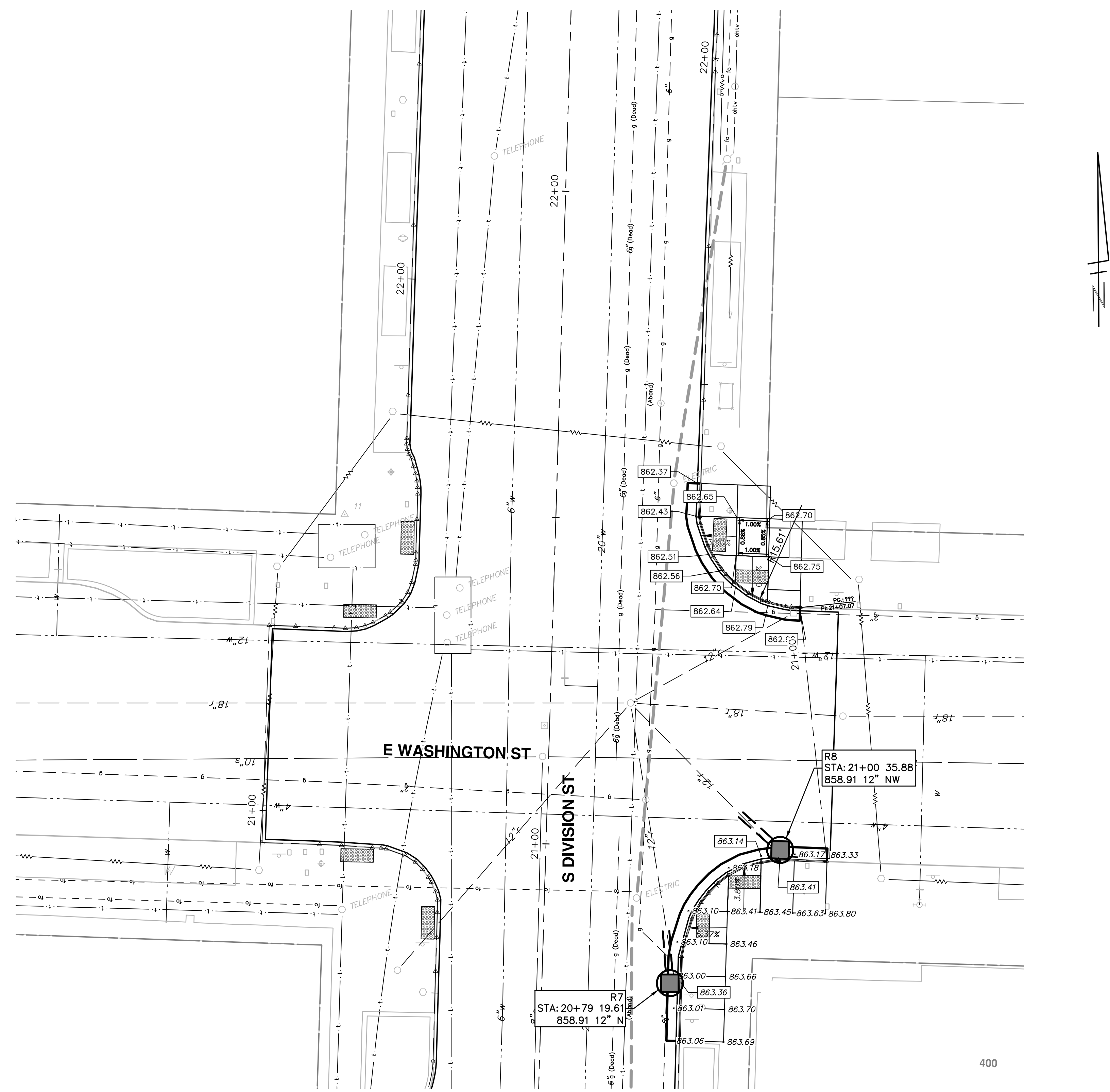


NOTES



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).



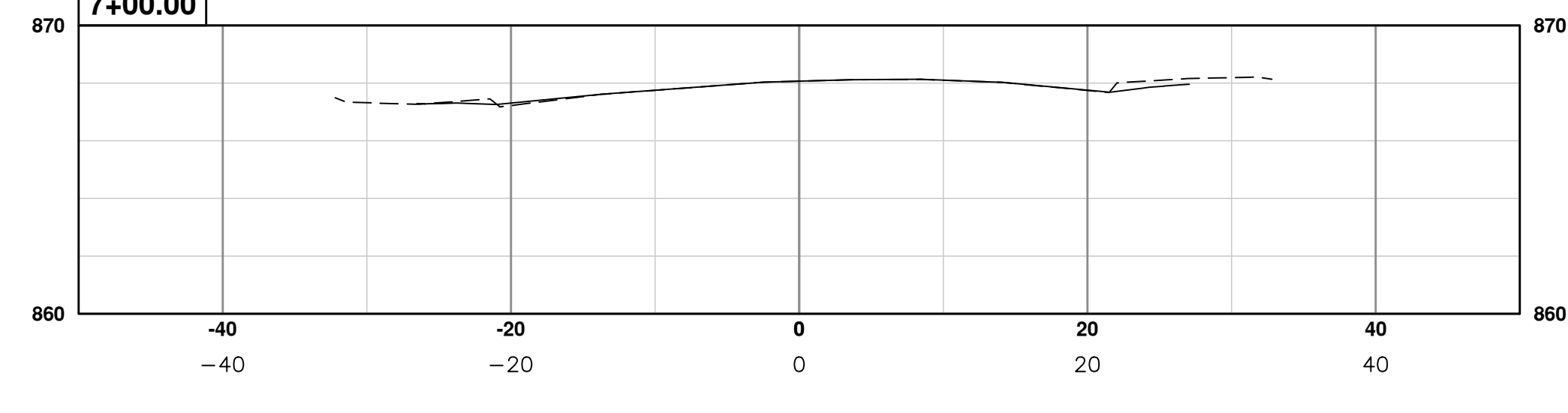
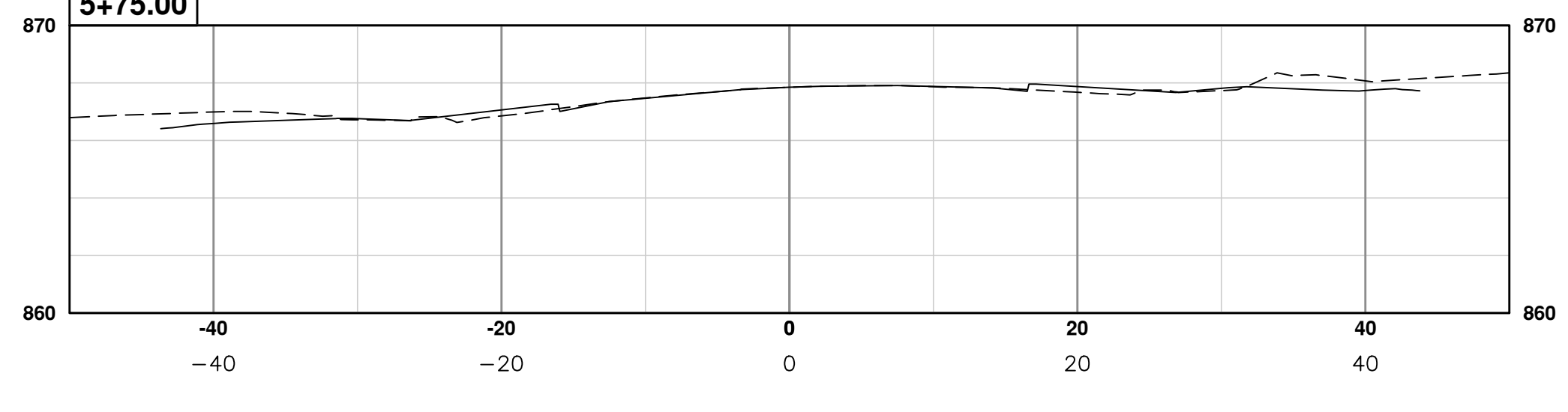
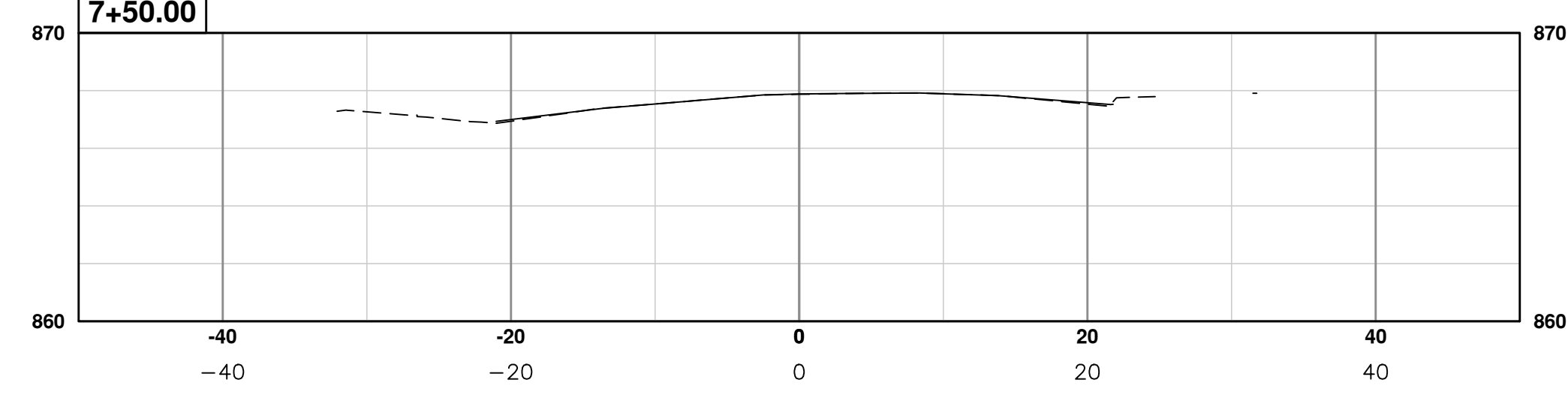
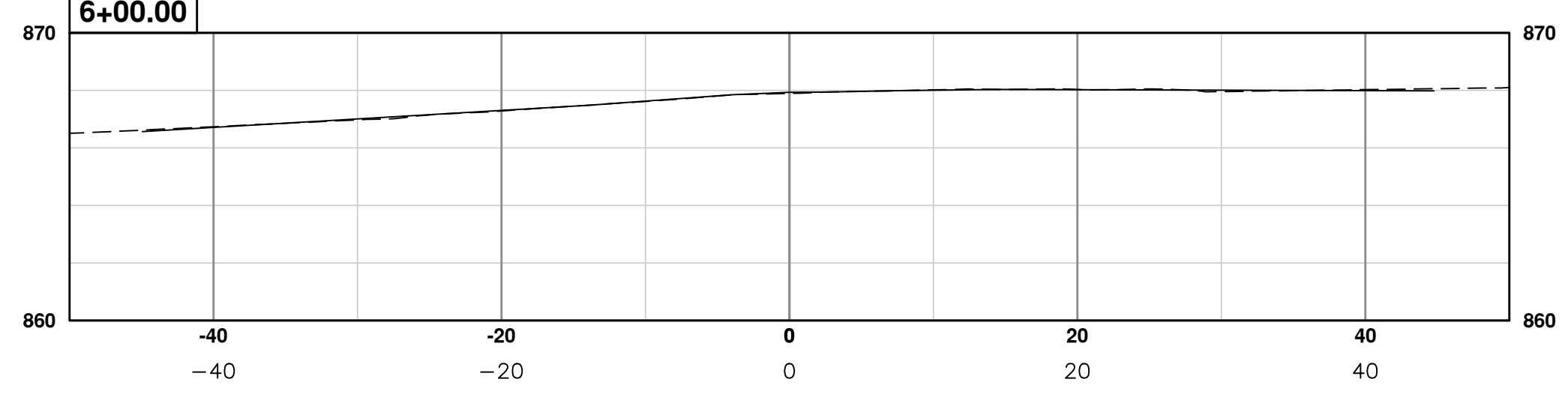
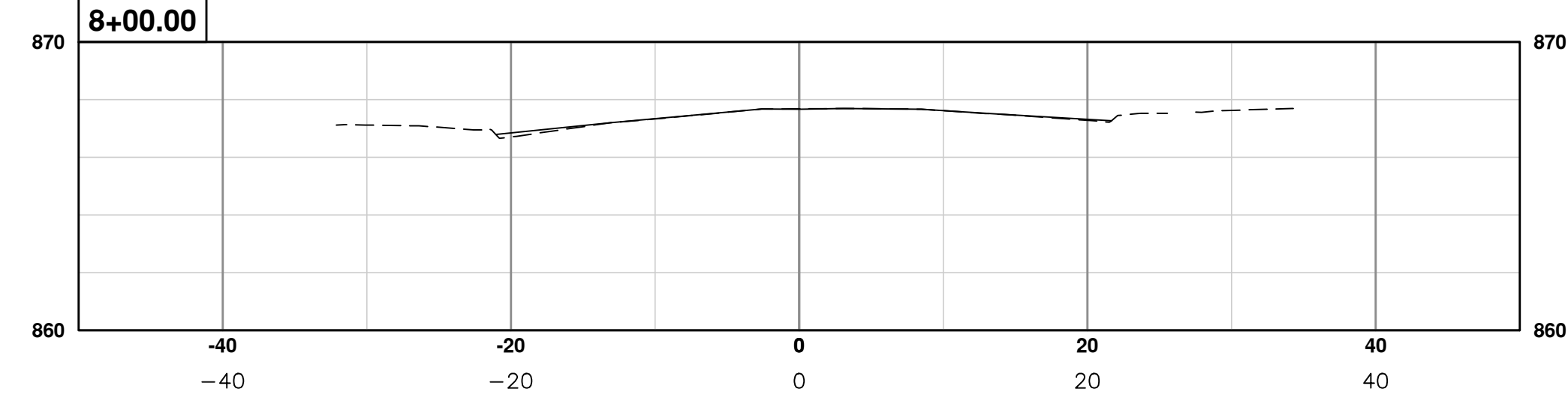
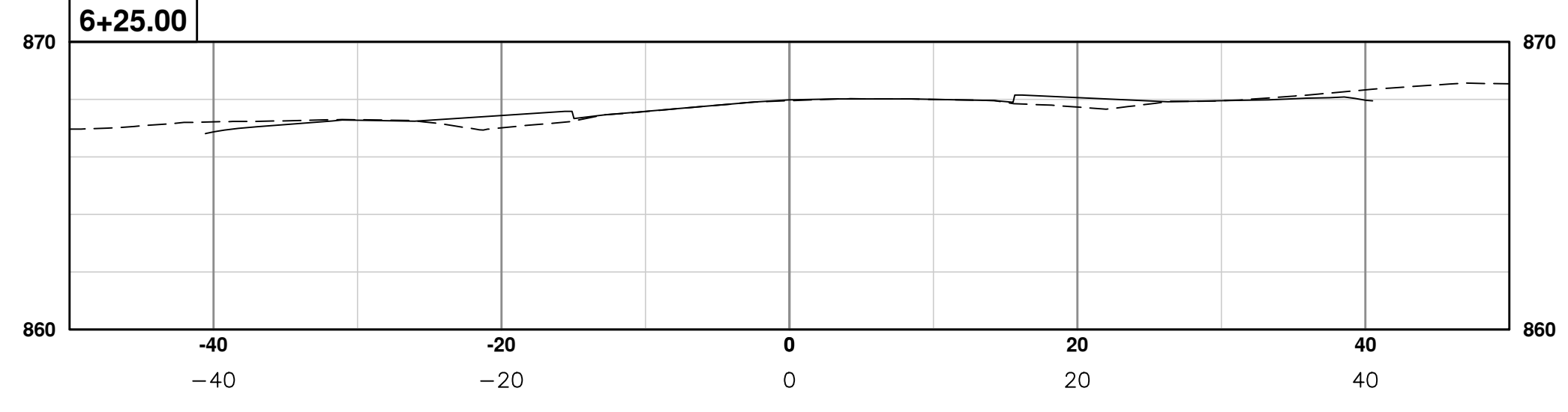
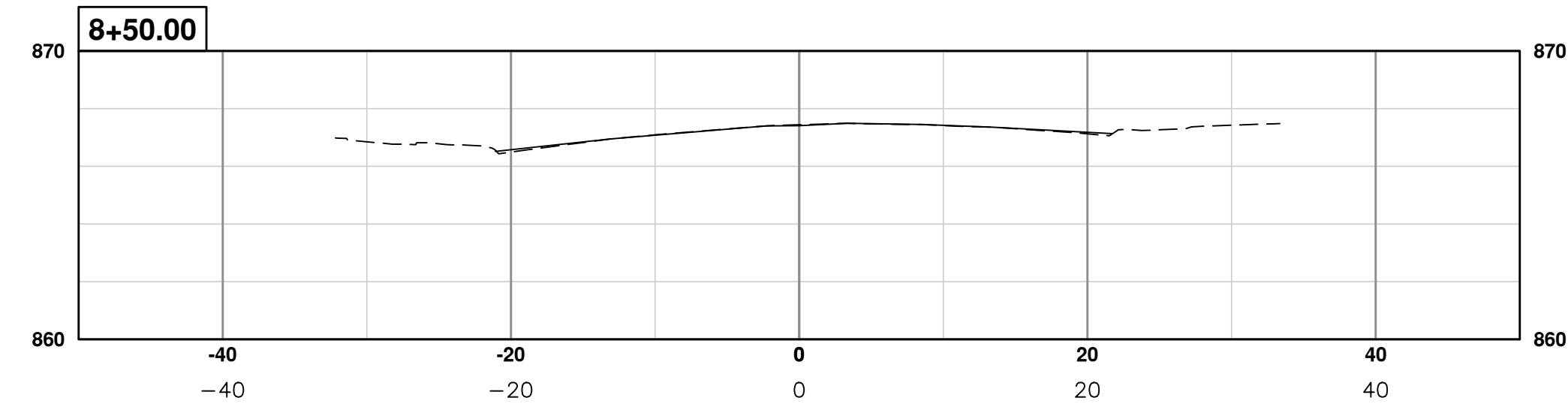
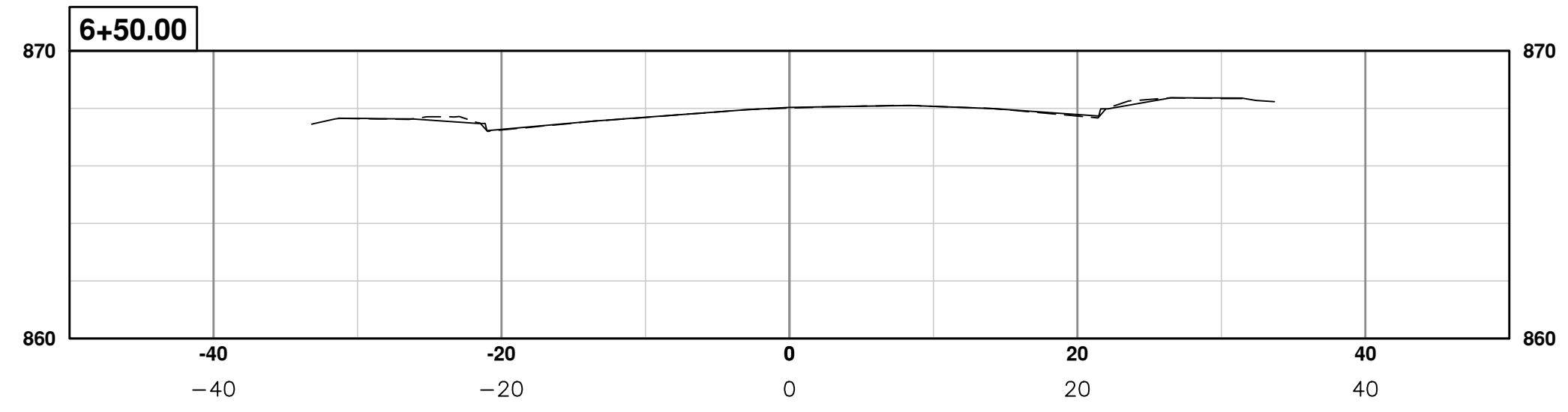
 <small>Know what's below. Call before you dig.</small>					
 <small>CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET PO BOX 8667 ANN ARBOR MI 48107-8667 www.a2gov.org</small>	<small>REV.</small> 00 BID SET 03-08-2017 DATE AG.GSRG DRAWN DAD CHECKED	<small>DESCRIPTION</small> E WILLIAM ST S DIVISION STREET ANNUAL STREET RESURFACING - 2017	<small>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR</small> ANNUAL STREET RESURFACING - 2017 S DIVISION STREET E WILLIAM ST	<small>SCALE PLAN: 1" = 10'</small> 	<small>DRAWING No.</small> 2017004-107
<small>SHEET No.</small> 107 OF 136					



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

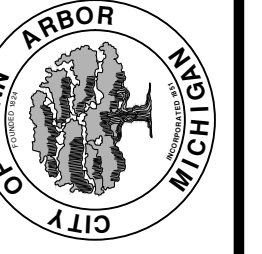
 CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 www.a2gov.org	PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2017 S DIVISION STREET E WASHINGTON ST	SCALE PLAN: 1" = 10' DRAWING No. 2017004-109	SHEET No. 109 OF 136	REV. DESCRIPTION DATE DRAWN CHECKED 00 BID SET 03-08-2017 AG.GSRG DAD REV.	 Know what's below. Call Before you dig.
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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: 8-Mar-17



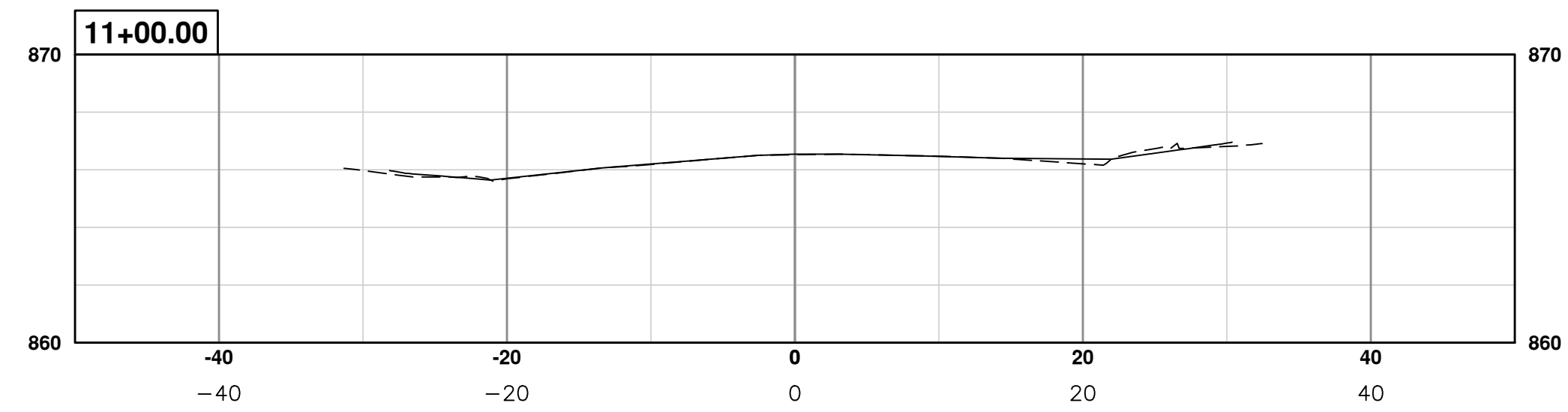
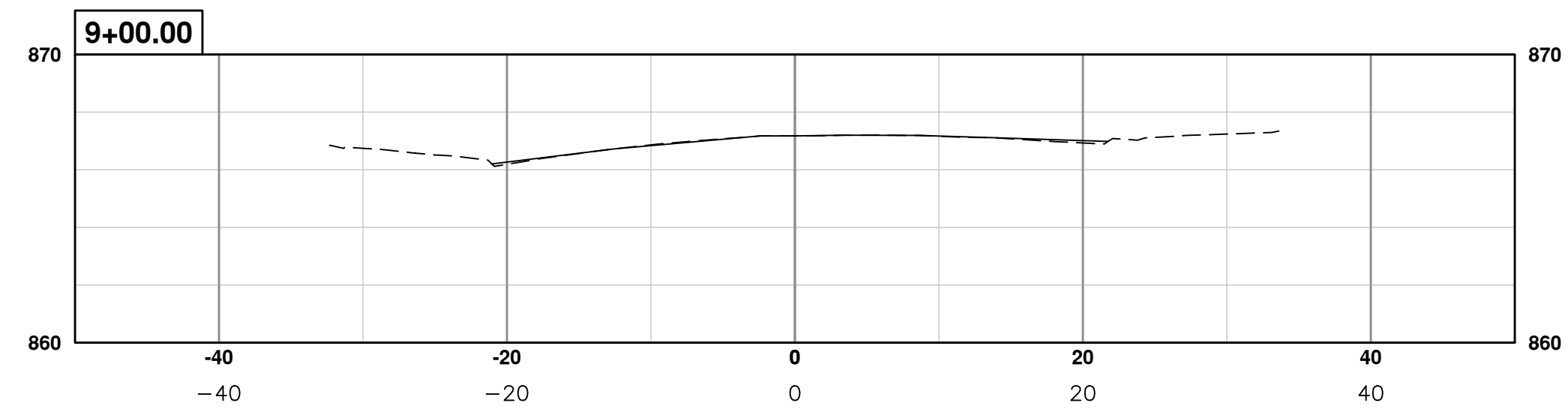
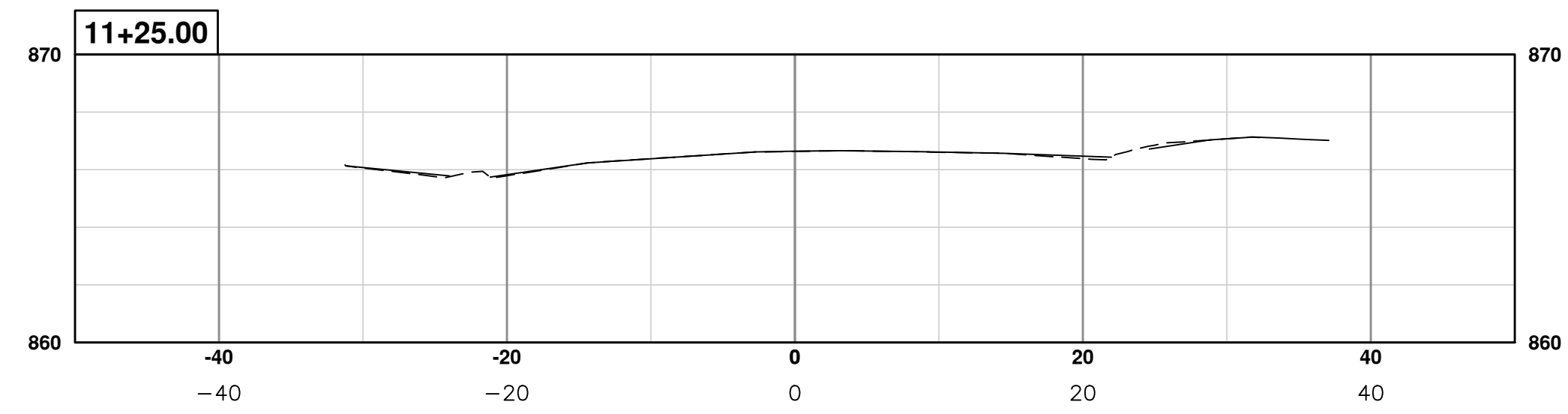
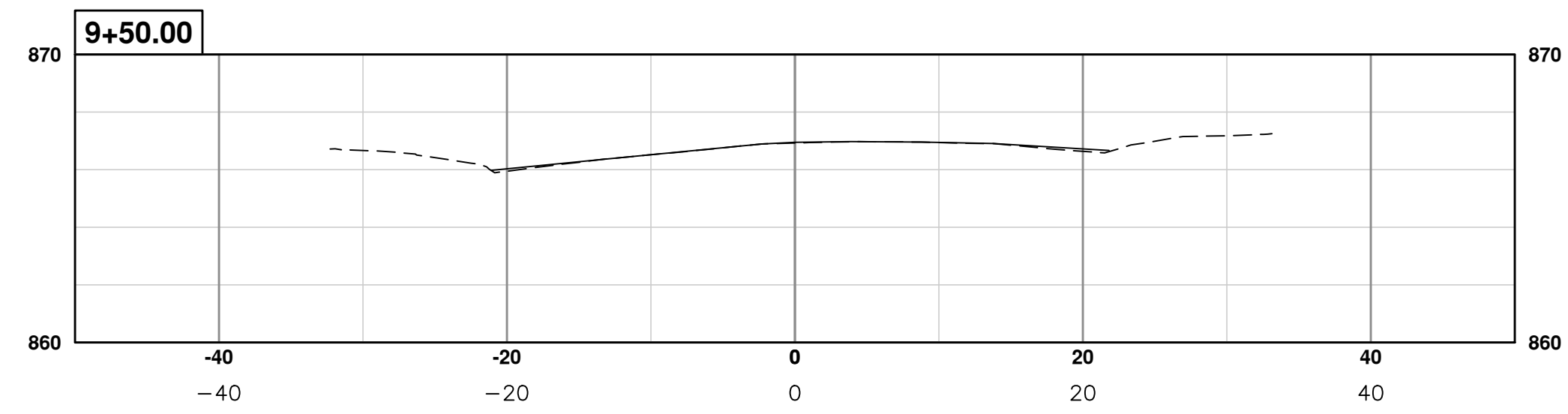
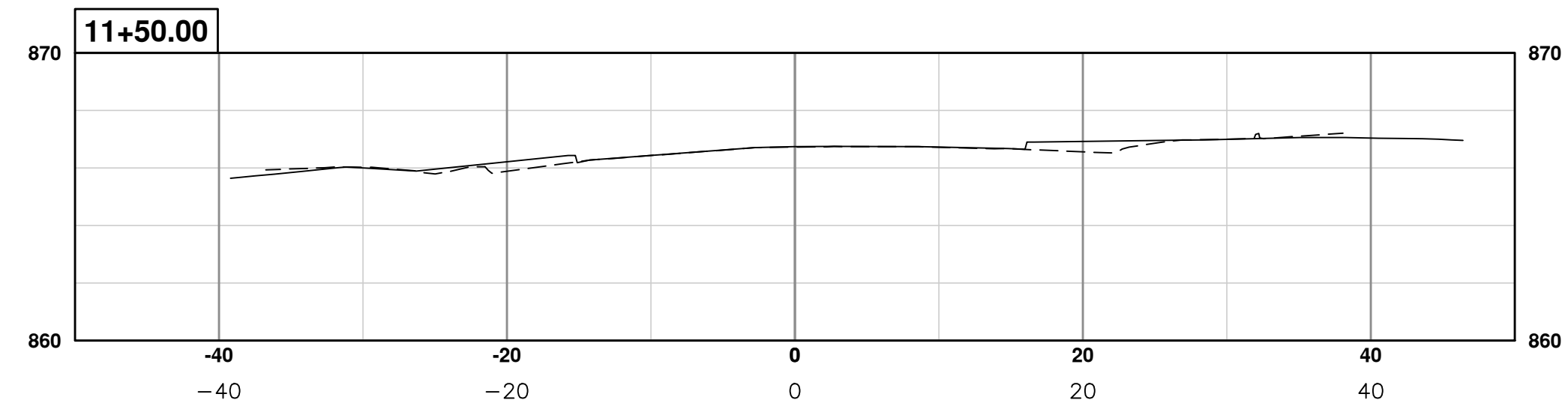
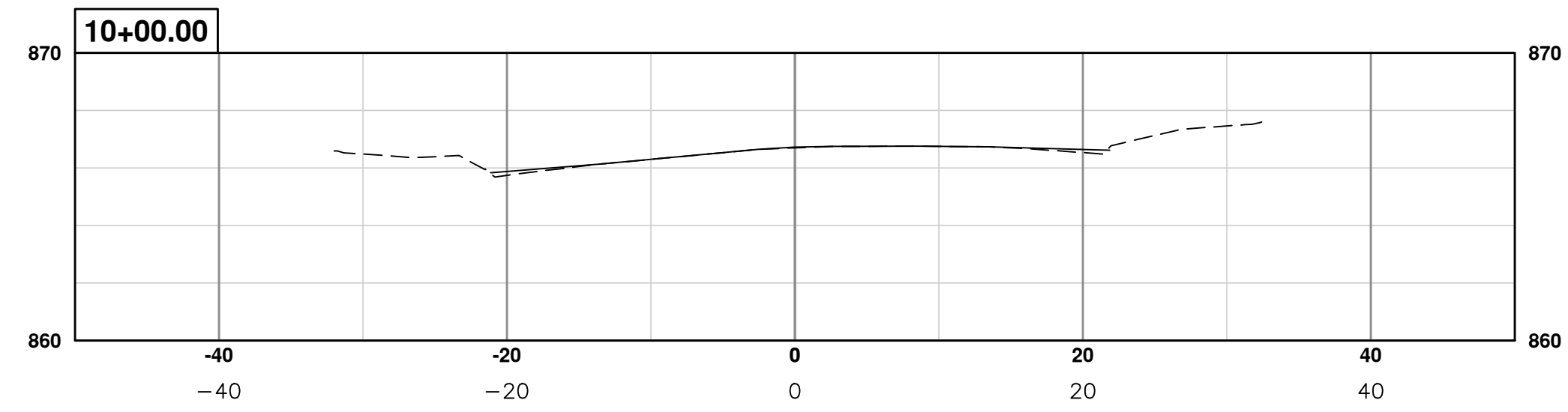
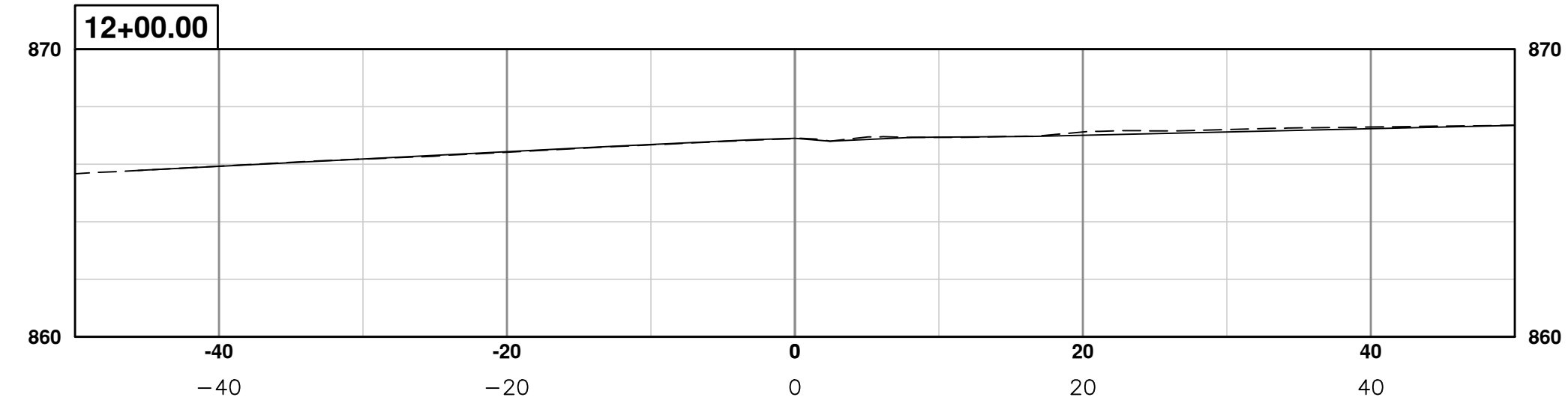
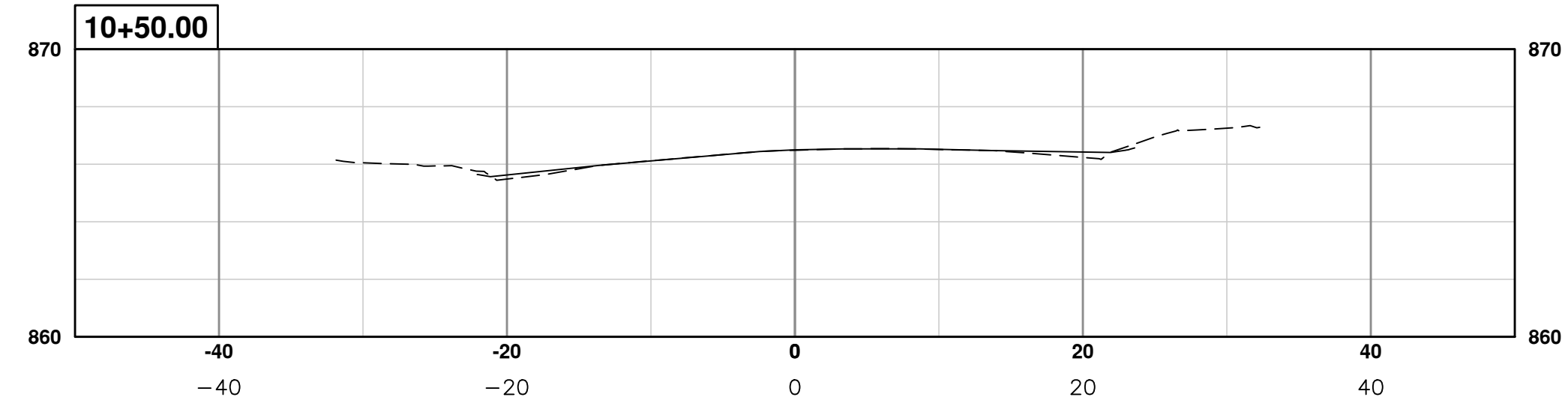
NO.	DESCRIPTION	DATE	BY	CHECKED
00	BID SET	03-08-2017	AG/CS/RG	DAD
	REV.		DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
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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'
DRAWING No. 2017004-110



AG.CS.RG	DRAWN	CHECKED
03-08-2017	DATE	
	DESCRIPTION	
00	BID SET	REV.

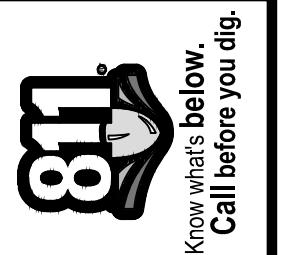
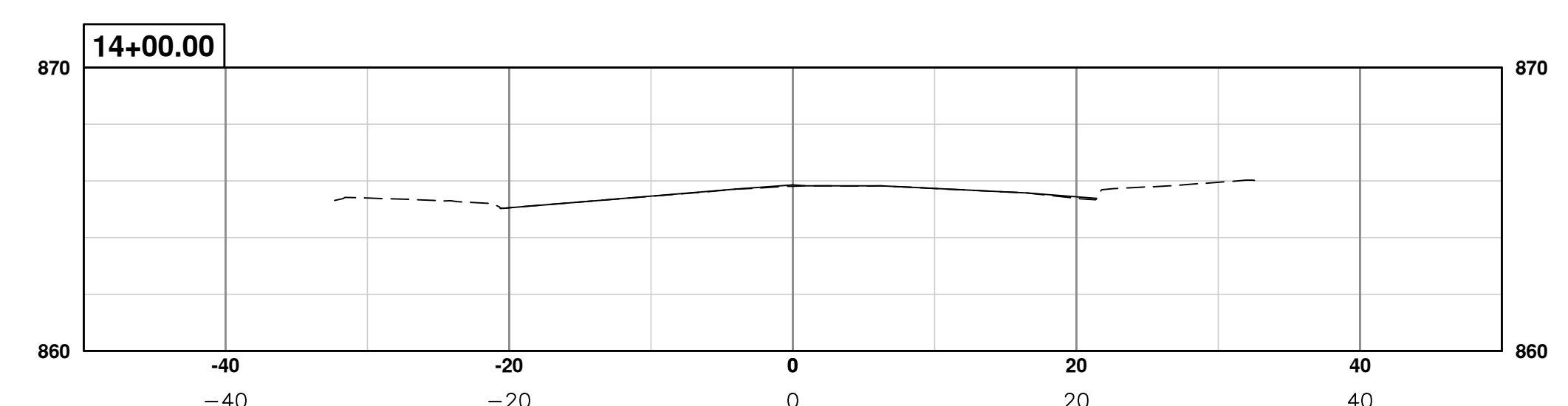
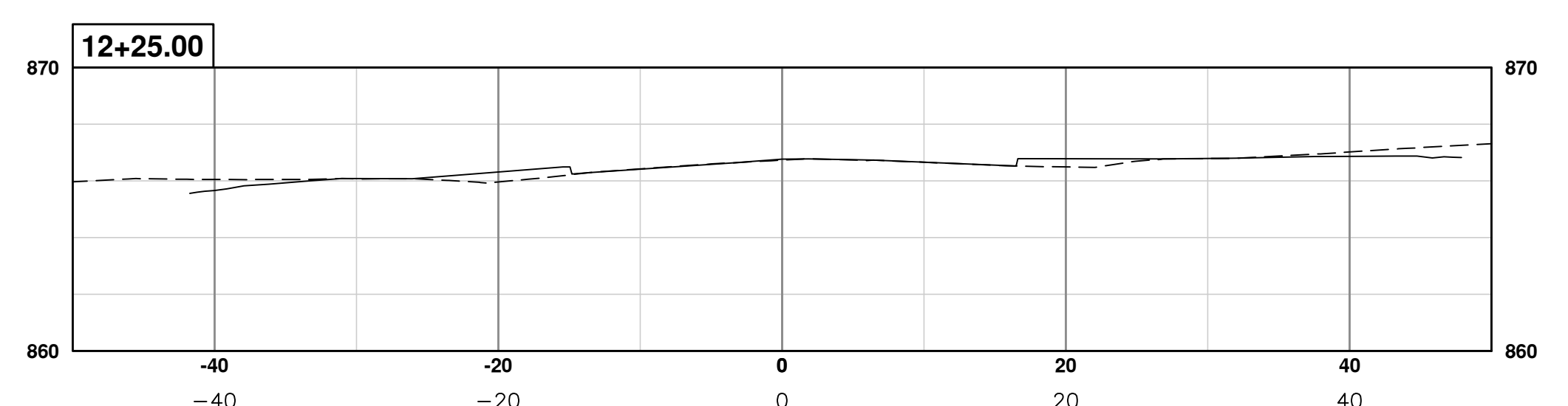
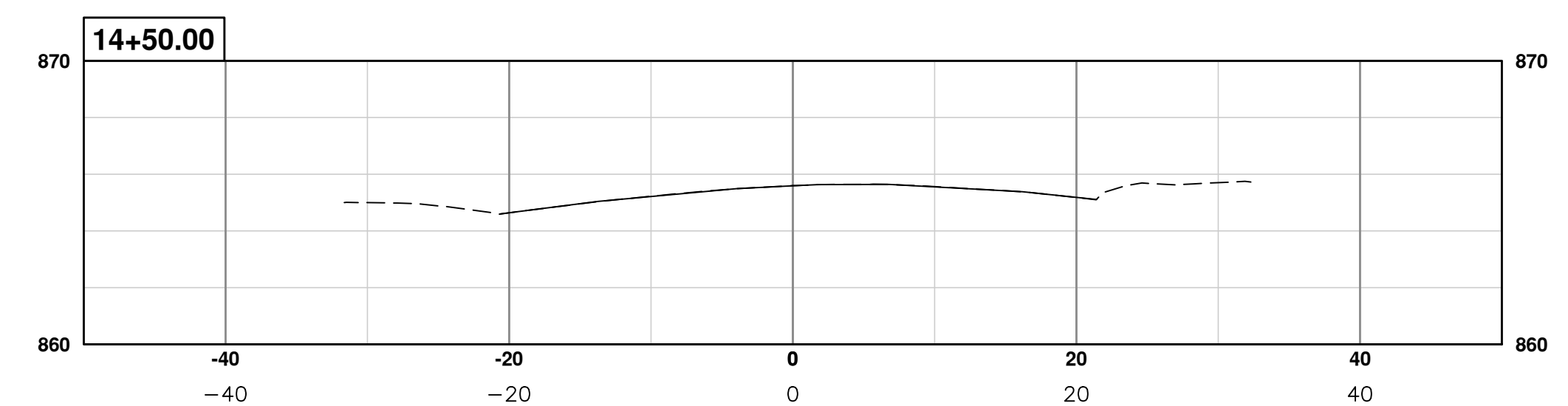
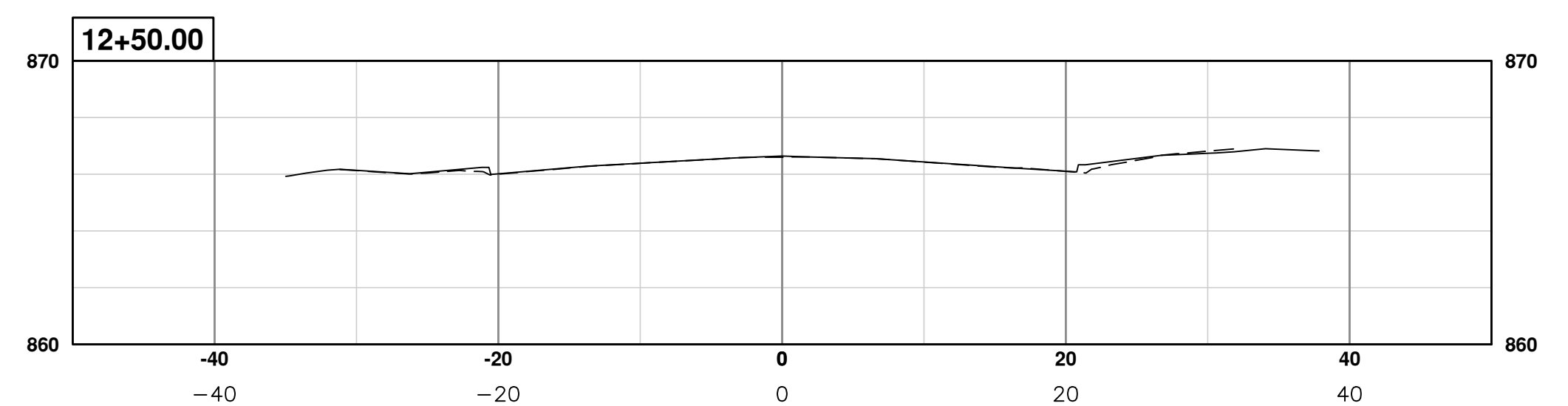
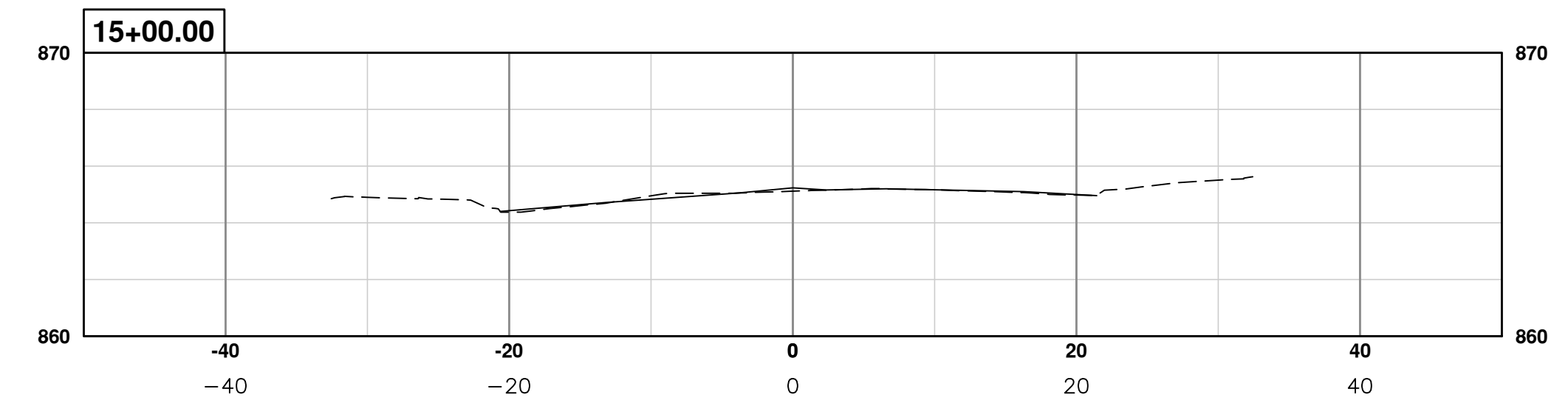
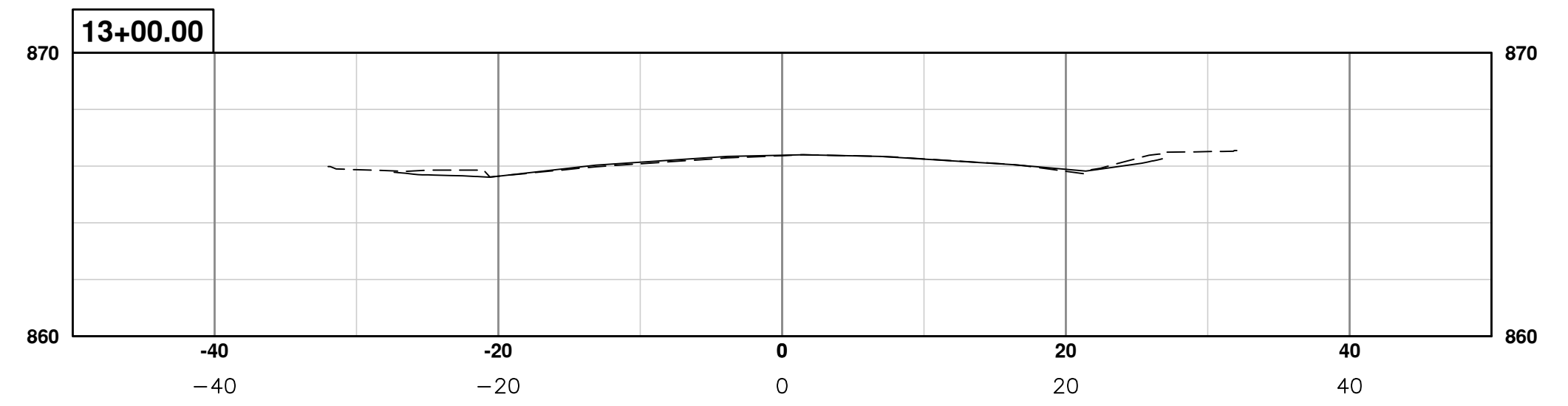
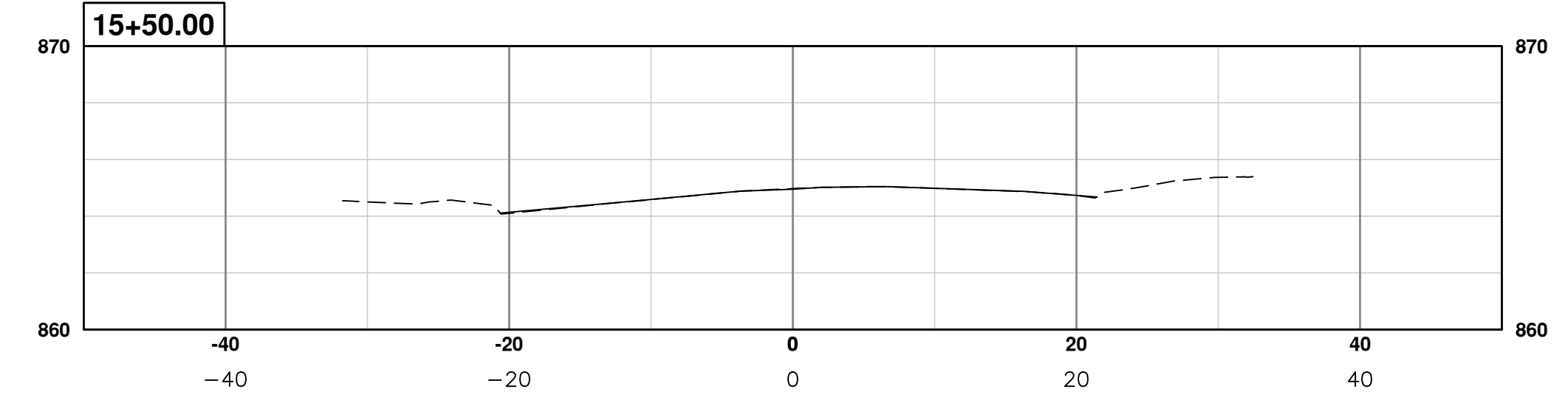
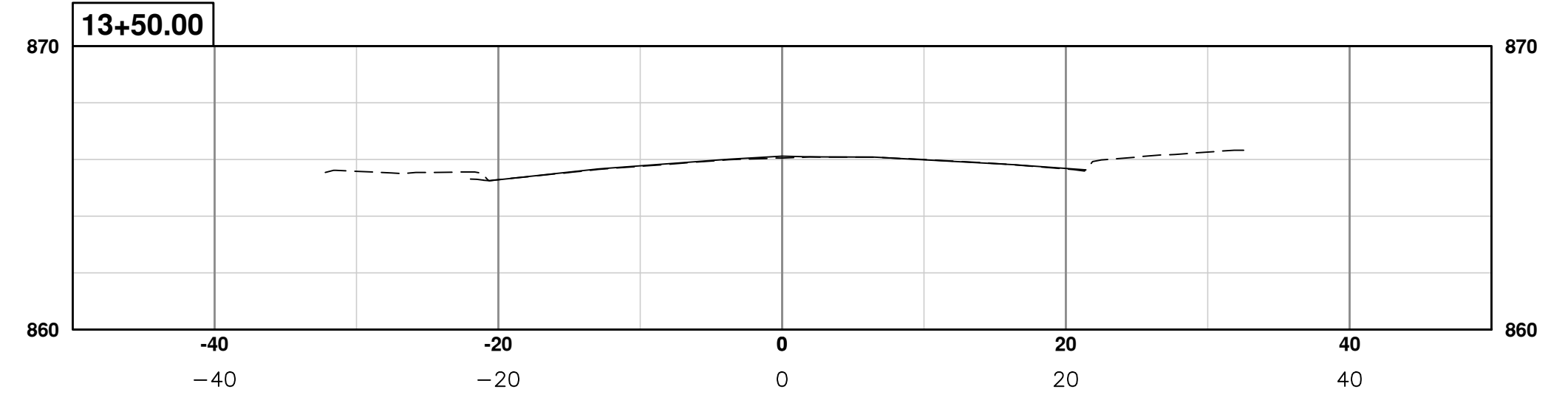
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S DIVISION STREET
SECT 9+00 TO 12+00

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: 8-Mar-17



NO.	DATE	DESCRIPTION	REV.
00	03-08-2017	BID SET	
		AG.CS.RG	DRAWN
		DAD	CHECKED

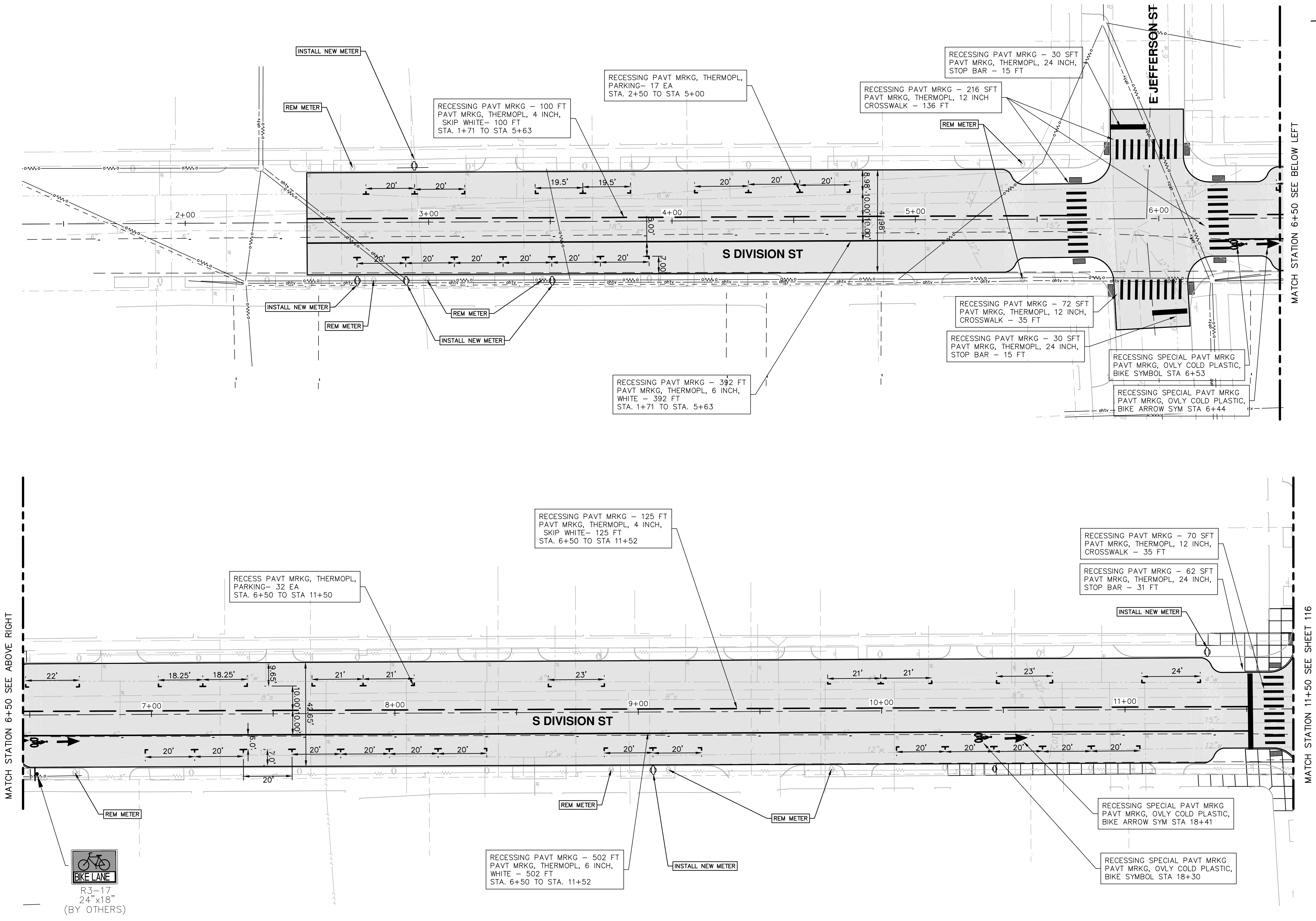
CITY OF ANN ARBOR
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ANN ARBOR, MI 48106-8647
ANN ARBOR 734-784-4410
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S DIVISION STREET
SECT 12+25 TO 15+50

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

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - S Division Street Pavement Markings.dwg Dwg Created: 20-Jan-17 - _a2 standard bw.stb - Plot Date: 8-Mar-17



R3-17
24"x18"
(BY OTHERS)

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

SCALE PLAN: 1" = 20'
DRAWING No. 2017004-113

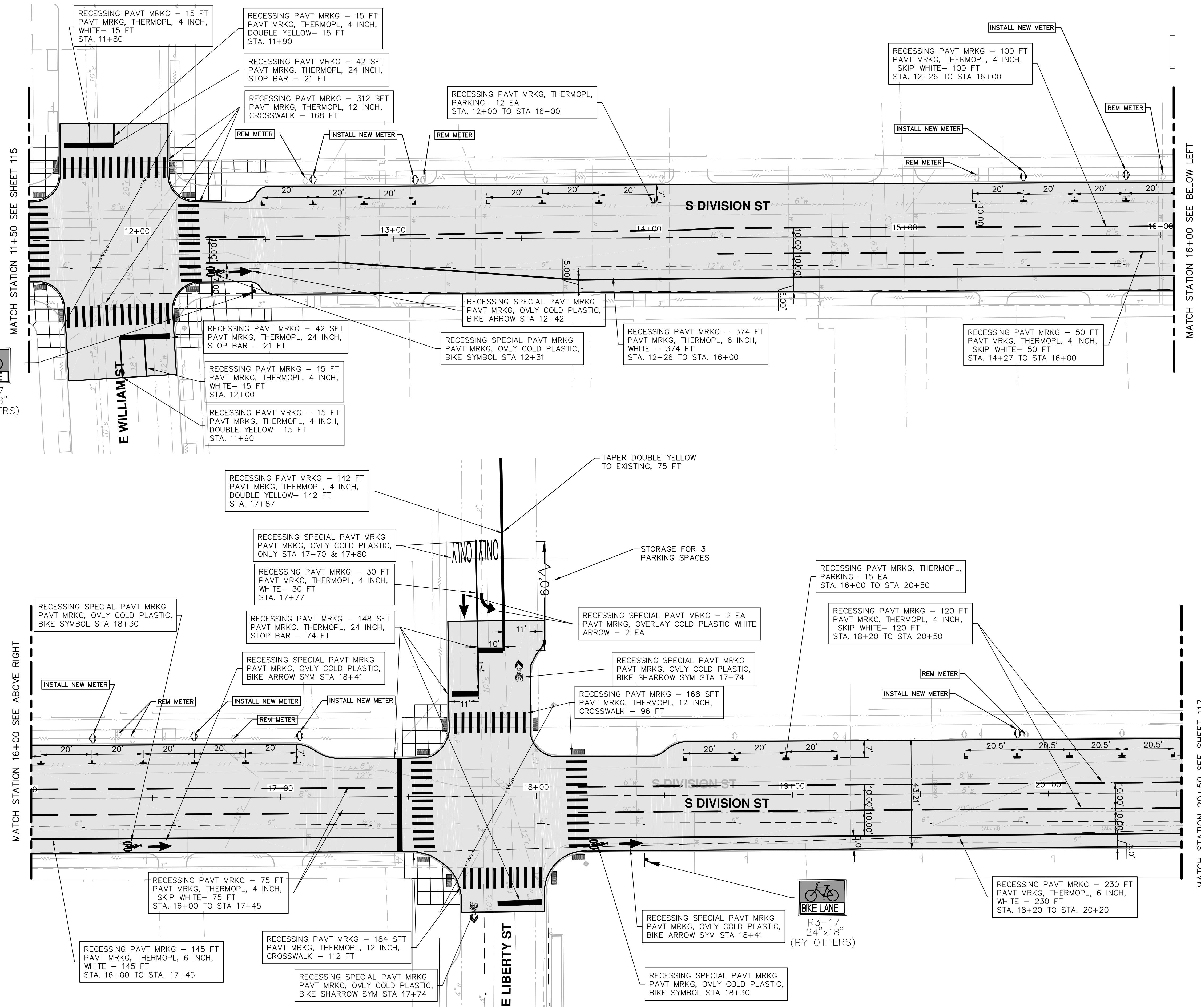
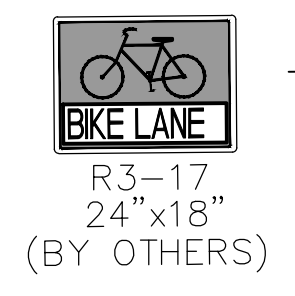
SHEET No. 113 OF 136

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.GSRG	DAD

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MATCH STATION 11+50 SEE SHEET 115

MATCH STATION 16+00 SEE BELOW LEFT

MATCH STATION 16+00 SEE ABOVE RIGHT

MATCH STATION 20+50 SEE SHEET 117

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

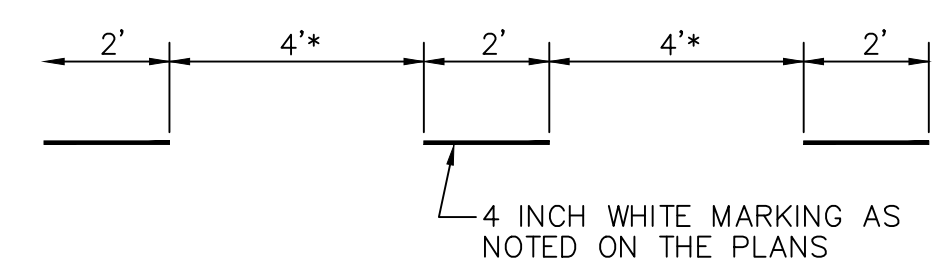
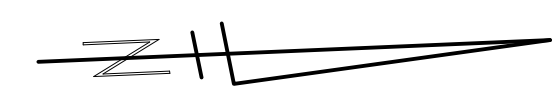
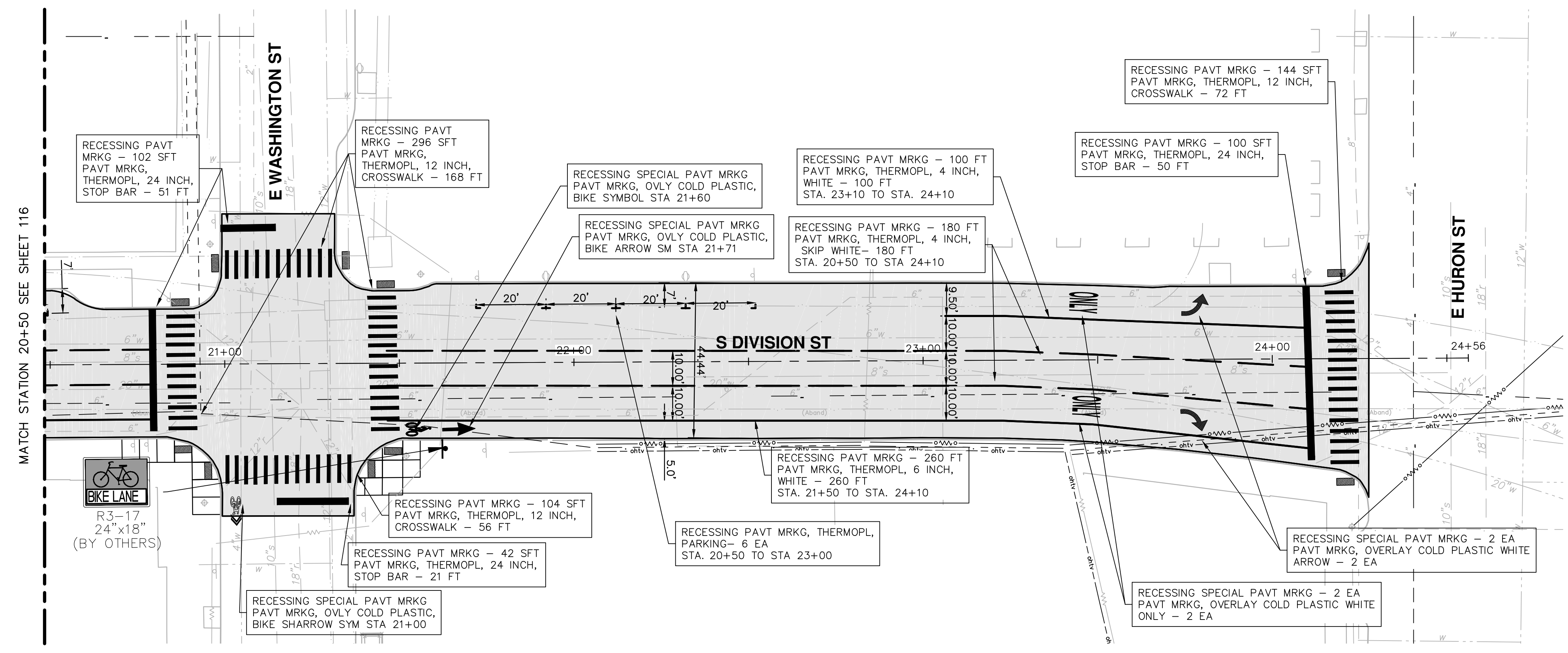
SCALE PLAN: 1" = 20'
 DRAWING No. 2017004-114
 SHEET No. 114 OF 136

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

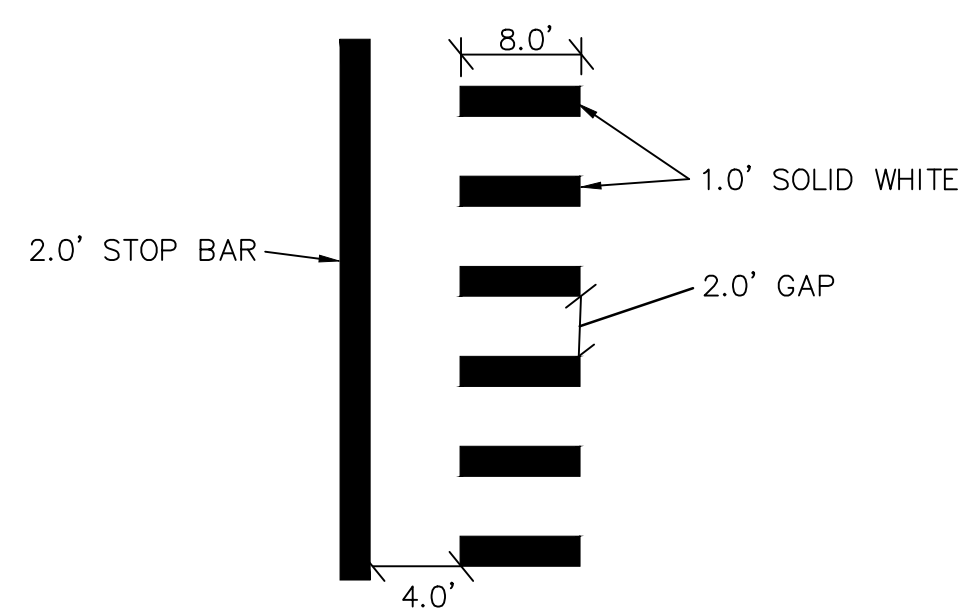
CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-8647
 ANN ARBOR: 734.754.4410
 WWW.A2GPOV.ORG

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG,CS,RG	DAD

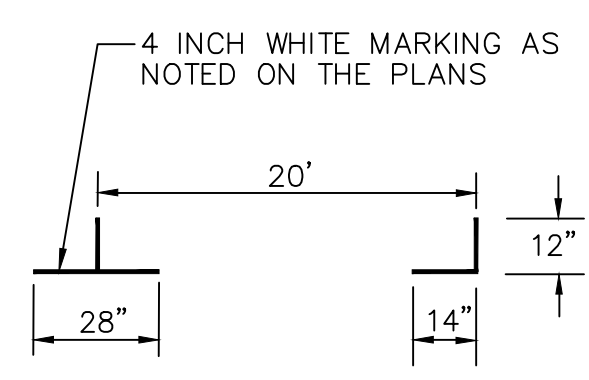
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 Plot Date: 8-Mar-17



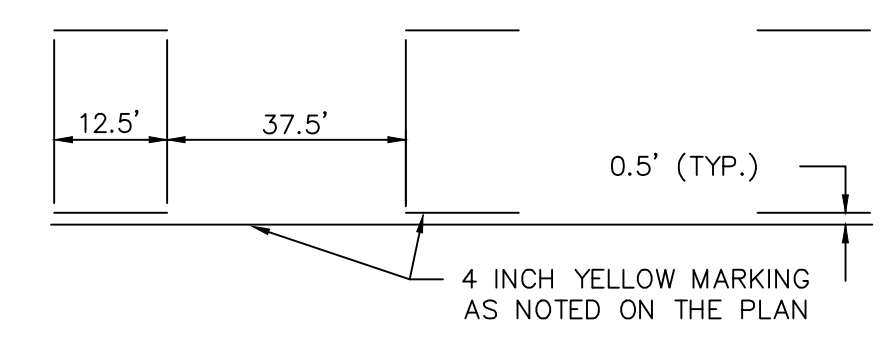
DOTTED LINE DETAIL
 * NOTE FOR BROKEN LINE, USE 6" GAPS.



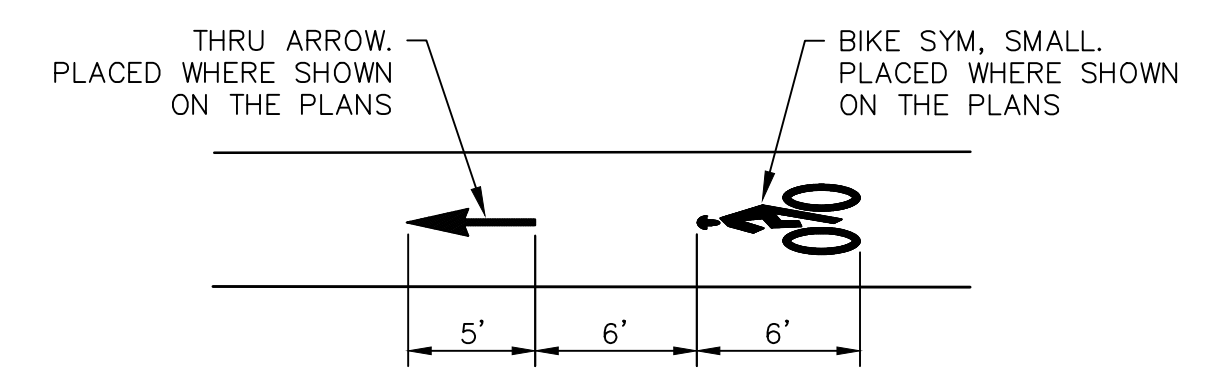
STOP BAR AND CROSSWALK DETAIL



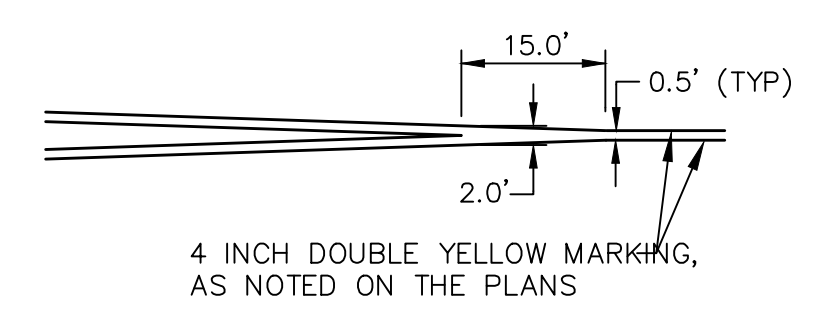
PARKING DETAIL



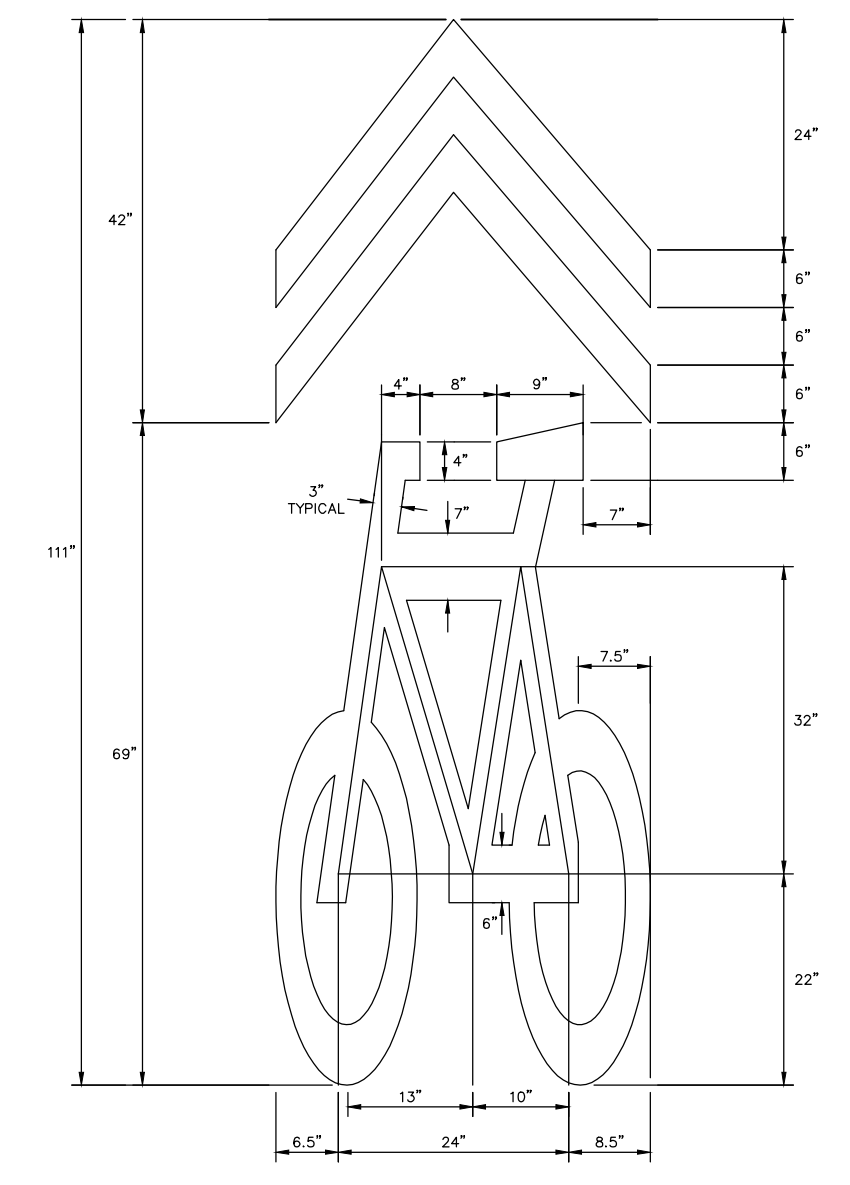
DASHED SEGMENT DETAIL




BIKE SYMBOL DETAIL



TYPICAL DOUBLE YELLOW SEPARATION DETAIL




SHARROW BIKE SYMBOL DETAIL



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REV.	00	BID SET	03-08-2017	DATE	AG.GSRG	DRAWN	DAD	CHECKED
DESCRIPTION								



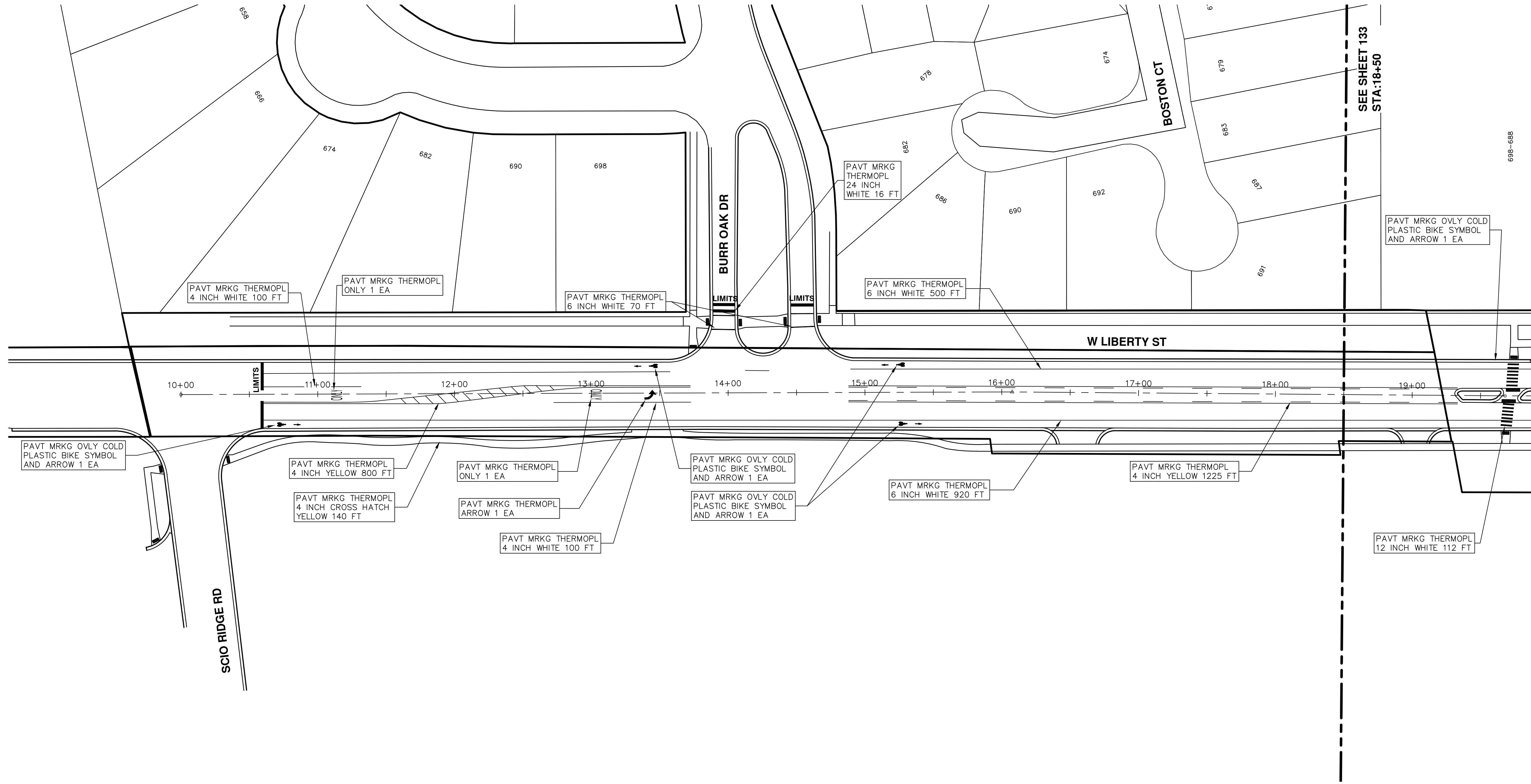
CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 P.O. BOX 8647
 ANN ARBOR MI 48107-8647
 ANN ARBOR MI 734-794-4410
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 S DIVISION STREET
 P1MARK 20+50 TO POE

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

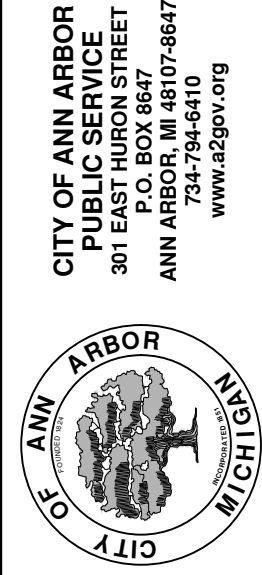
SHEET No. 115 OF 136

S:\Project Management\Drafting\autocad\2017004\Plan Production\Major Streets\2017004 - West Liberty Street.dwg Created: 22-Dec-16 - _c2 standard bw.stb - Plot Date: 8-Mar-17



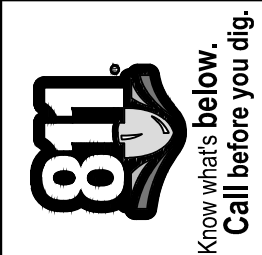
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1"=80'
 DRAWING No. 2017004-130

ANNUAL STREET RESURFACING - 2017
 S UNIVERSITY AVENUE
 PAVEMENT MARKINGS



CITY OF ANN ARBOR
 PUBLIC SERVICE
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-0667
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REV.	DESCRIPTION	DATE	AG. OR GR.	DRAWN	CHECKED
00	BID SET	03-08-2017	AG. OR GR.	DAD	





CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: S UNIVERSITY AVENUE

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 7 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.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT AREA, INCLUDING GATE AND MONUMENT BOXES.

PHASE II

- REPEAT ITEMS 1 THRU 5 IN THE ORDER SHOWN ABOVE.
- REMOVE 2 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.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (MAJOR STREETS) OVER ENTIRE STREET.
- 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
2030011	Dr Structure, Rem	Ea	12.000
2030015	Sewer, Rem, Less than 24 inch	Ft	120.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	486.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	281.000
2057011	Grading, Sidewalk	Syd	164.000
2057011	Grading, Sidewalk Ramp	Syd	117.000
2057021	Subgrade Undercutting, Type IIA	Cyd	311.000
2087050	Erosion Control, Inlet Filter	Ea	24.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	120.000
4030200	Dr Structure, 24 inch dia	Ea	12.000
4037001	Dr Structure Cover, Special	Ea	2.000
4037050	Dr Structure Cover, Type B, Modified	Ea	5.000
4037050	Dr Structure Cover, Type K, Modified	Ea	13.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	14.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,636.000
5010005	HMA Surface, Rem	Syd	54.000
5010057	HMA, SE3	Ton	1,579.000
5010061	HMA, Approach	Ton	57.000
5017031	HMA, Wedging, 36A	Ton	8.000
6027021	Flowable Fill	Cyd	18.000
8037001	Detectable Warning Surface, Modified	Ft	90.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1050.000
8037010	Sidewalk with Integral Retaining Wall, 6 inch to 18 inch Height	Sft	20.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	1475.000
8110049	Pav Mrkg, Only Cold Plastic, Direction Arrow Sym, Bike	Ea	10.000
8110058	Pav Mrkg, Only Cold Plastic, Bike, Small Sym	Ea	10.000
8110153	Pav Mrkg, Sprayable Thermopl, 4 inch, White	Ft	206.000
8110154	Pav Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	7,708.000
8110155	Pav Mrkg, Sprayable Thermopl, 6 inch, White	Ft	9,246.000
8110197	Pav Mrkg, Thermopl, 6 inch, Crosswalk	Ft	725.000
8110218	Pav Mrkg, Thermopl, 24 inch, Stop Bar	Ft	233.000
8117001	Pav Mrkg, Thermopl, 24 inch, Crosswalk	Ft	184.000
8117050	Pav Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	3.000
8117050	Pav Mrkg, Thermopl, Only	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	16.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	16.000
8120140	Lighted Arrow, Type C, Furn	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	172.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	172.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	3.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	3.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	735.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	735.000
8127050	No Parking Sign	Ea	61.000
8167011	Slope Restoration	Syd	179.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • 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
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
40.0	D3-1	Street Name Sign	4.000	160.000
1.0	M4-10L	Detour Arrow (Left) Sign	6.000	6.000
1.0	M4-10R	Detour Arrow (Right) Sign	6.000	6.000
1.0	M4-8a	End Detour Sign	3.000	3.000
5.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	25.000
2.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	10.000
7.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	35.000
4.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	50.000
11.0	R6-1L	One Way (Left) Sign	3.000	33.000
11.0	R6-1R	One Way (Right) Sign	3.000	33.000
4.0	SP-1	Special Sign	20.000	80.000
14.0	W20-1	Road Work Ahead Sign	9.000	126.000
1.0	W20-2	Detour Ahead Sign	9.000	9.000
6.0	W20-3	Road Closed Ahead Sign	9.000	54.000
1.0	W20-4	One Lane Road Sign ("One Lane Road Ahead")	9.000	9.000
		TOTAL		639.000

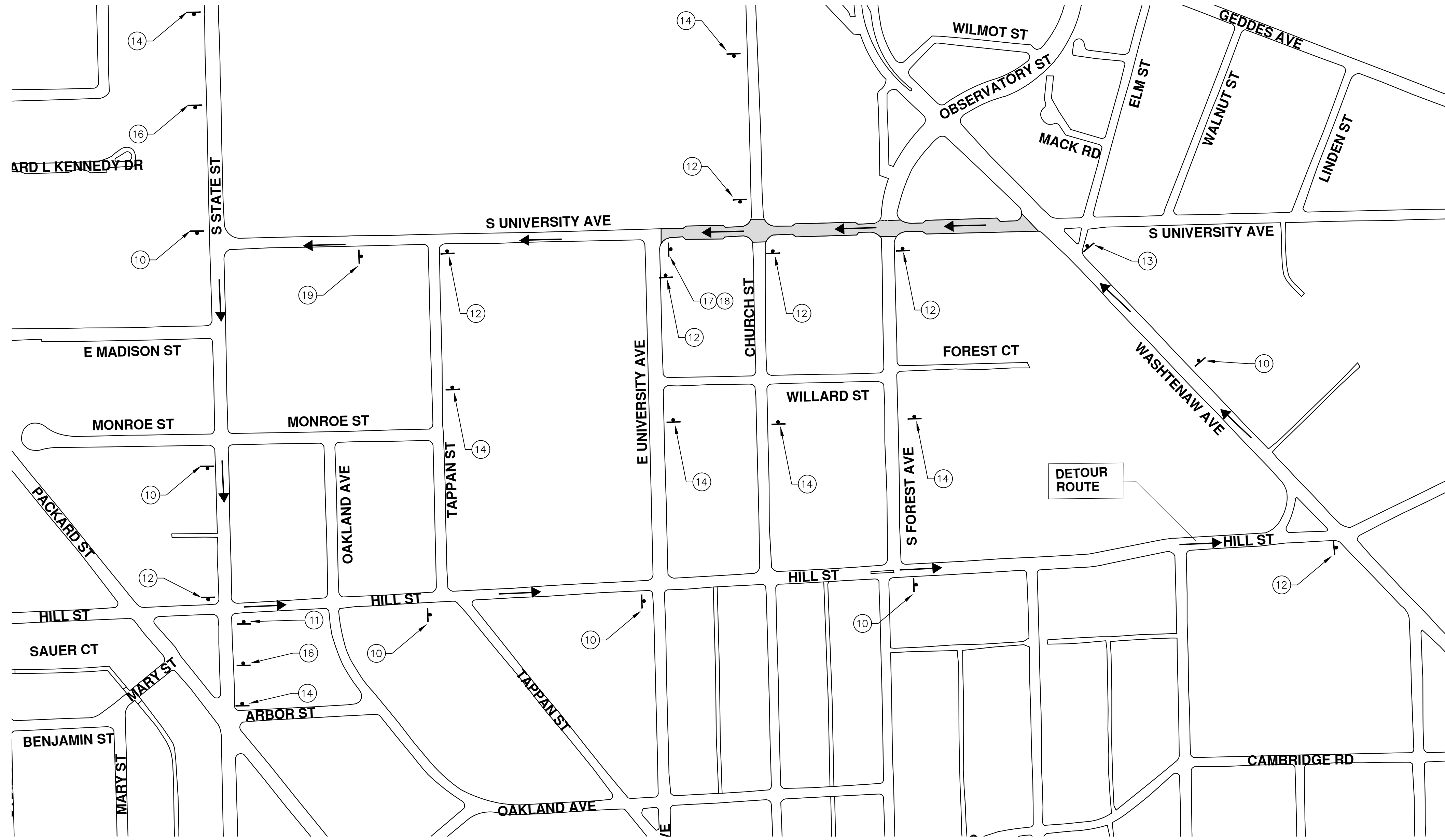


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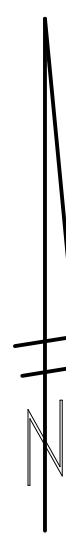
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S UNIVERSITY AVENUE
DRAWING No. 2017004-116



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
00	03-08-2017	BID SET
		AG.CS.RG
		DAD
		CHECKED

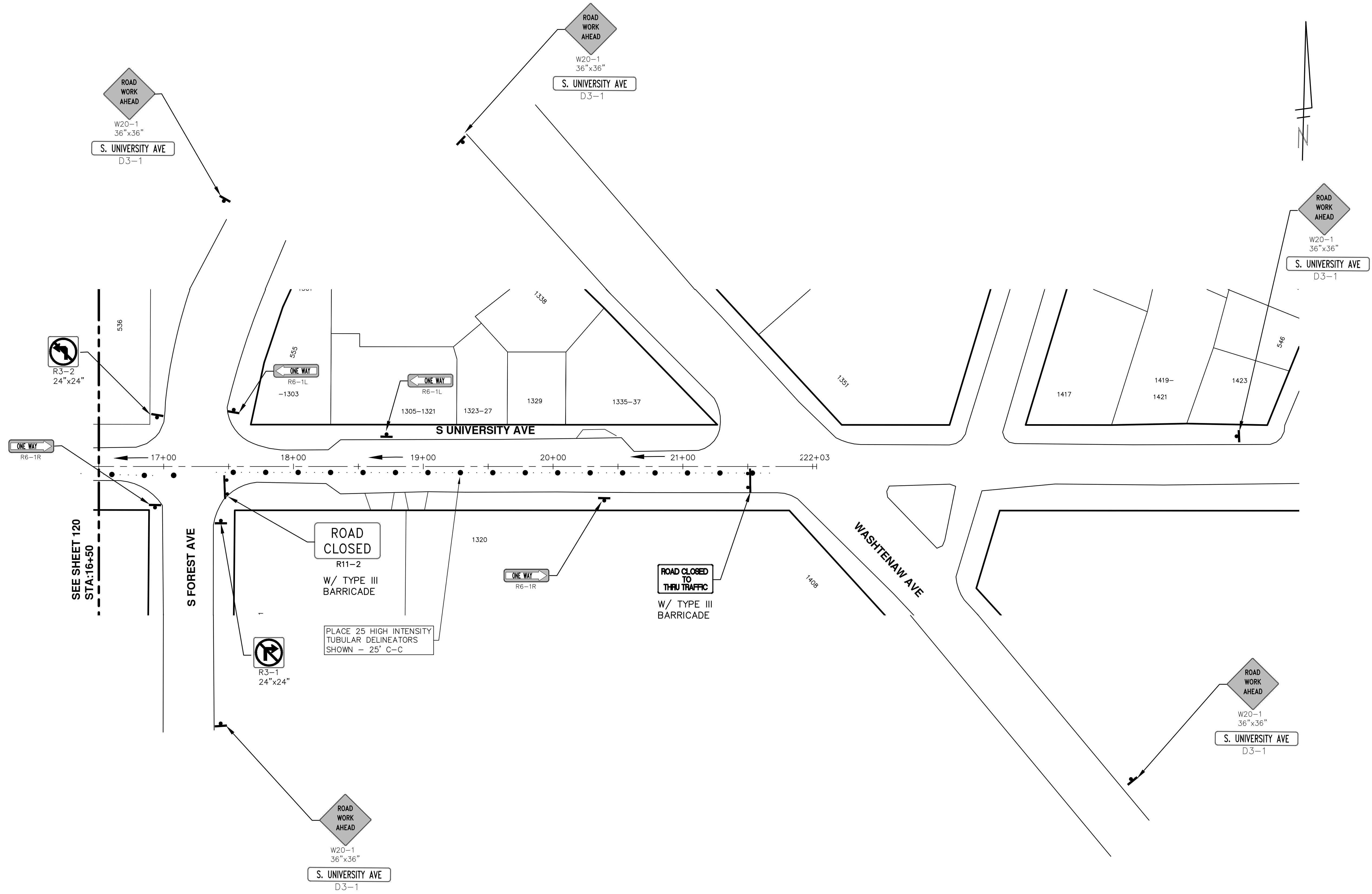
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
S UNIVERSITY AVENUE
DETOUR

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

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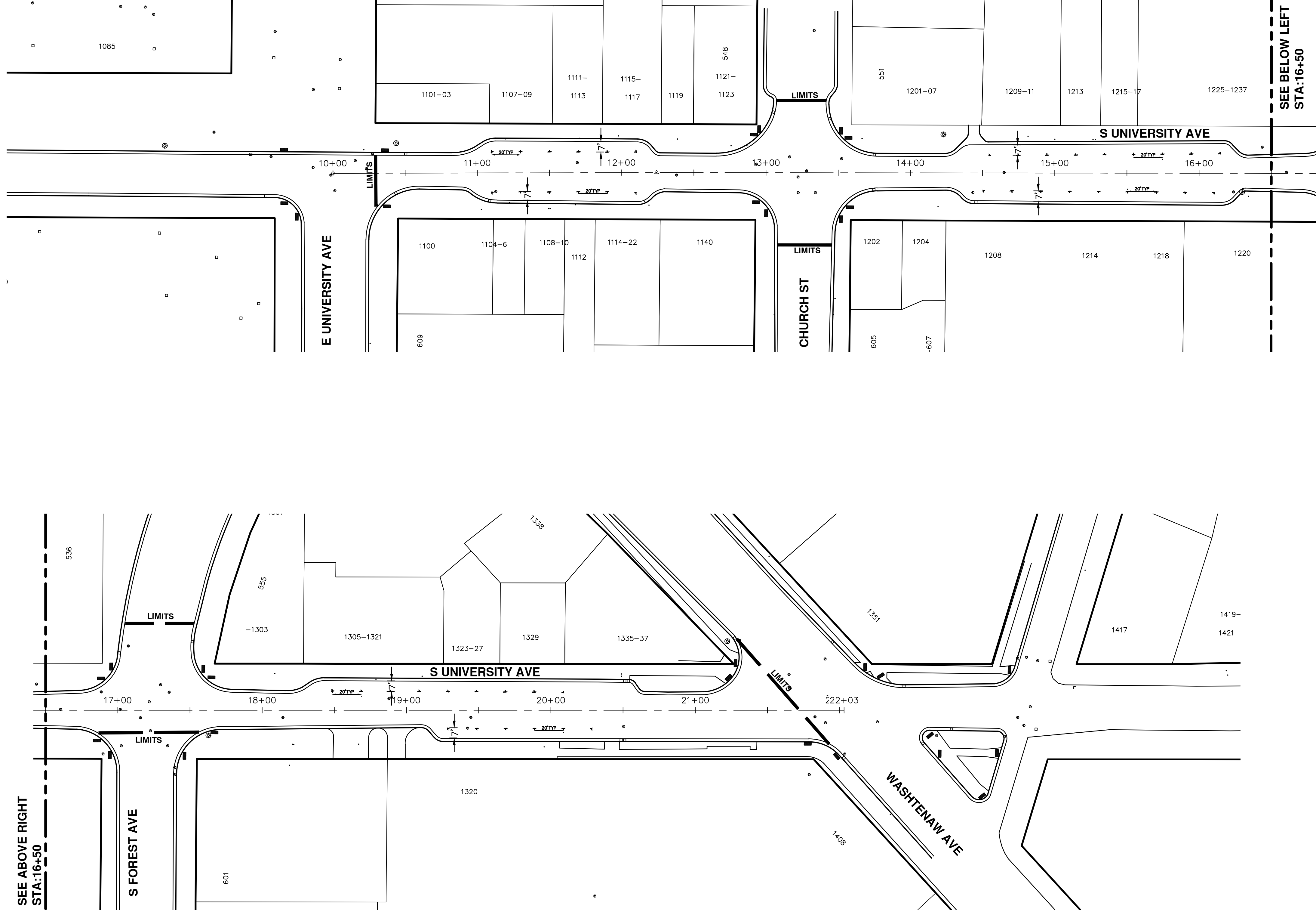
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ANNUAL STREET RESURFACING - 2017
 S UNIVERSITY AVENUE
 TRAFFIC CONTROL

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.OSRG	DAD

SHEET No. **119 OF 136**

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



SEE ABOVE RIGHT
STA:16+50

SEE BELOW LEFT
STA:16+50

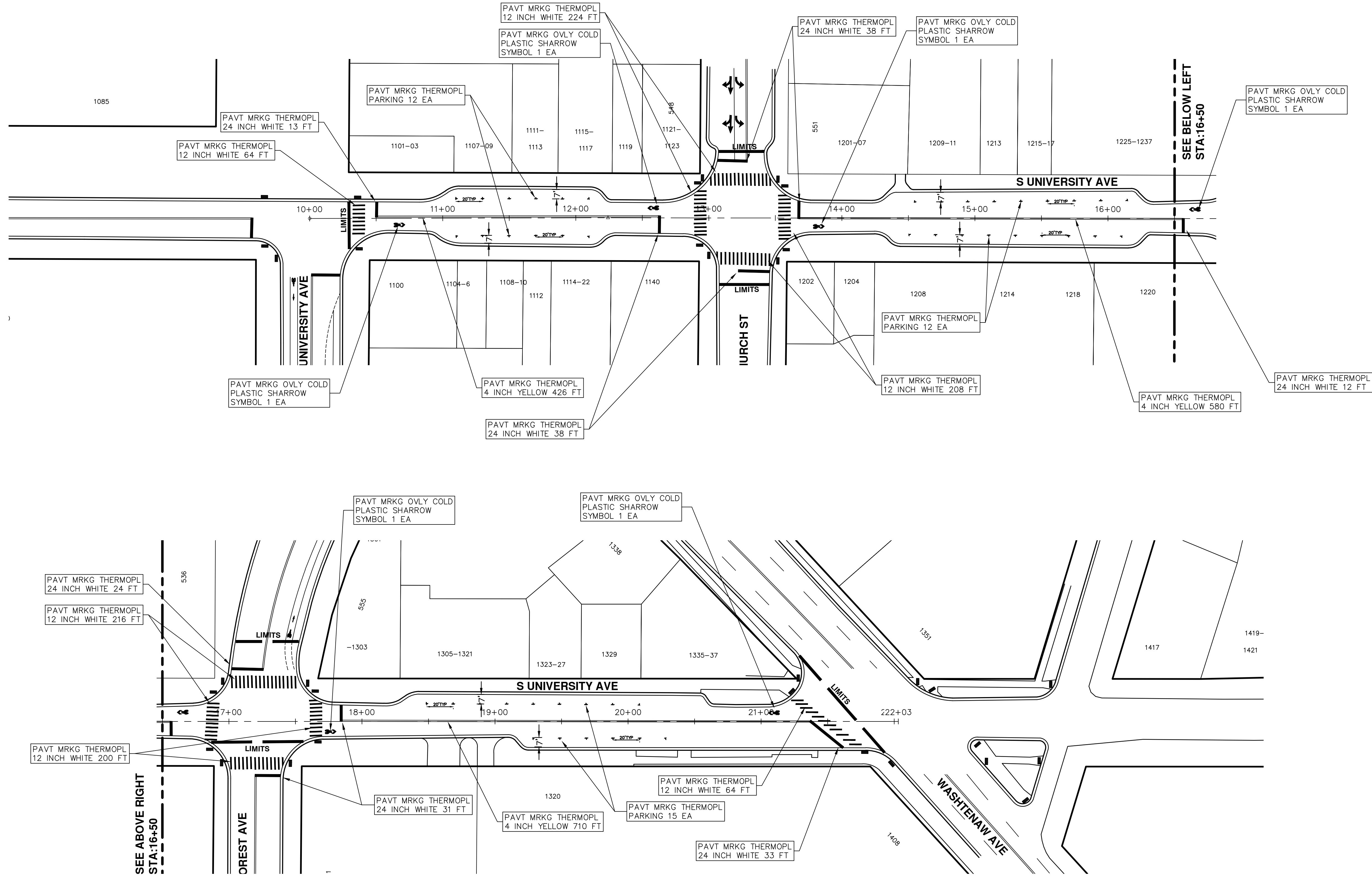


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.GS.RG	DAD

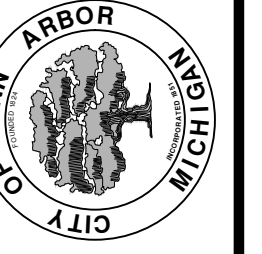
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.GSRG	DAD

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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. 2017004-121



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 7 THRU 14 UTILIZING THE M.O.T. PLAN CURRENTLY IN PLACE, LANE CLOSURES, AND FLAG CONTROL OPERATIONS AS DIRECTED BY THE ENGINEER.

PHASE I

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.
5. TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT AREA, INCLUDING GATE AND MONUMENT BOXES.

PHASE II

6. REPEAT ITEMS 1 THRU 5 IN THE ORDER SHOWN ABOVE.
7. REMOVE 2 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.
8. PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
9. GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED.
10. ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION.
11. CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (MAJOR STREETS) OVER ENTIRE STREET.
12. CLEAN PAVEMENT AND PLACE HMA APPROACHES AS REQUIRED.
13. CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
14. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN UP AND FINAL RESTORATION.
15. 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

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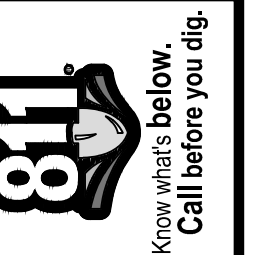
QUANTITIES			
Item Code	Item Description	Units	Quantity
2030011	Dr Structure, Rem	Ea	12.000
2030015	Sewer, Rem, Less than 24 inch	Ft	120.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	486.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	281.000
2057011	Grading, Sidewalk	Syd	164.000
2057011	Grading, Sidewalk Ramp	Syd	117.000
2057021	Subgrade Undercutting, Type IIA	Cyd	311.000
2087050	Erosion Control, Inlet Filler	Ea	24.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	120.000
4030200	Dr Structure, 24 inch dia	Ea	12.000
4037001	Dr Structure Cover, Special	Ea	2.000
4037050	Dr Structure Cover, Type B, Modified	Ea	5.000
4037050	Dr Structure Cover, Type K, Modified	Ea	13.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	14.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,636.000
5010005	HMA Surface, Rem	Syd	54.000
5010057	HMA, 5E3	Ton	1,579.000
5010061	HMA, Approach	Ton	57.000
5017031	HMA, Wedging, 36A	Ton	8.000
6027021	Flowable Fill	Cyd	18.000
8037001	Detectable Warning Surface, Modified	Ft	90.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1050.000
8037010	Sidewalk with Integral Retaining Wall, 6 inch to 18 inch Height	Sft	20.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	1475.000
8110049	Pav Mrkg, Only Cold Plastic, Direction Arrow Sym, Bike	Ea	10.000
8110058	Pav Mrkg, Only Cold Plastic, Bike, Small Sym	Ea	10.000
8110153	Pav Mrkg, Sprayable Thermopl, 4 inch, White	Ft	206.000
8110154	Pav Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	7,708.000
8110155	Pav Mrkg, Sprayable Thermopl, 6 inch, White	Ft	9,246.000
8110197	Pav Mrkg, Thermopl, 6 inch, Crosswalk	Ft	725.000
8110218	Pav Mrkg, Thermopl, 24 inch, Stop Bar	Ft	233.000
8117001	Pav Mrkg, Thermopl, 24 inch, Crosswalk	Ft	184.000
8117050	Pav Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	3.000
8117050	Pav Mrkg, Thermopl, Only	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	16.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	16.000
8120140	Lighted Arrow, Type C, Furn	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	172.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	172.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	3.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	3.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	735.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	735.000
8127050	No Parking Sign	Ea	61.000
8167011	Slope Restoration	Syd	179.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	•_Dr Structure, Adj, Case 1, Modified •_Dr Structure, Adj, Case 2, Modified •_Dr Structure, Temp Lowering, Modified
AB	•_Dr Structure, Temp Lowering, Modified •_Gate Box, Adj, Case 1 •_Gate Box, Adj, Case 2 •_Monument Box Adjust
ADST	•_Dr Structure, Adj, Add Depth, Modified
AK	•_Dr Structure, Adj, Case 1, Modified
C4	•_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem •_Grading, Sidewalk •_Sidewalk, Conc, 4 inch, Modified
C4HE	•_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem •_Grading, Sidewalk •_Cement •_Sidewalk, Conc, 4 inch, Modified
C6	•_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem •_Grading, Sidewalk •_Detectable Warning Surface, Modified •_Sidewalk Ramp, Conc, 6 inch, Modified •_Sidewalk, Conc, 6 inch, Modified
C8	•_Grading, Driveway Approach •_Driveway, Nonreinf Conc, 8 inch, Modified •_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem •_Grading, Driveway Approach •_Grading, Sidewalk •_Grading, Sidewalk Ramp •_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 •_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
40.0	D3-1	Street Name Sign	4.000	160.000
1.0	M4-10L	Detour Arrow (Left) Sign	6.000	6.000
1.0	M4-10R	Detour Arrow (Right) Sign	6.000	6.000
1.0	M4-8a	End Detour Sign	3.000	3.000
5.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	25.000
2.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	10.000
7.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	35.000
4.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	50.000
11.0	R6-1L	One Way (Left) Sign	3.000	33.000
11.0	R6-1R	One Way (Right) Sign	3.000	33.000
4.0	SP-1	Special Sign	20.000	80.000
14.0	W20-1	Road Work Ahead Sign	9.000	126.000
1.0	W20-2	Detour Ahead Sign	9.000	9.000
6.0	W20-3	Road Closed Ahead Sign	9.000	54.000
1.0	W20-4	One Lane Road Sign ("One Lane Road Ahead")	9.000	9.000
		TOTAL		639.000

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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" D3-1
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" D3-1

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ANNUAL STREET RESURFACING - 2017
 WEST LIBERTY STREET
 DETOUR

SCALE PLAN: Custom
 DRAWING No. 2017004-123

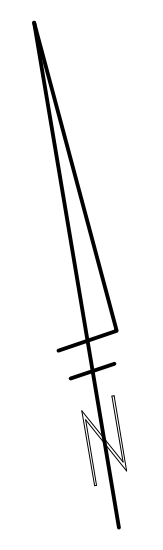
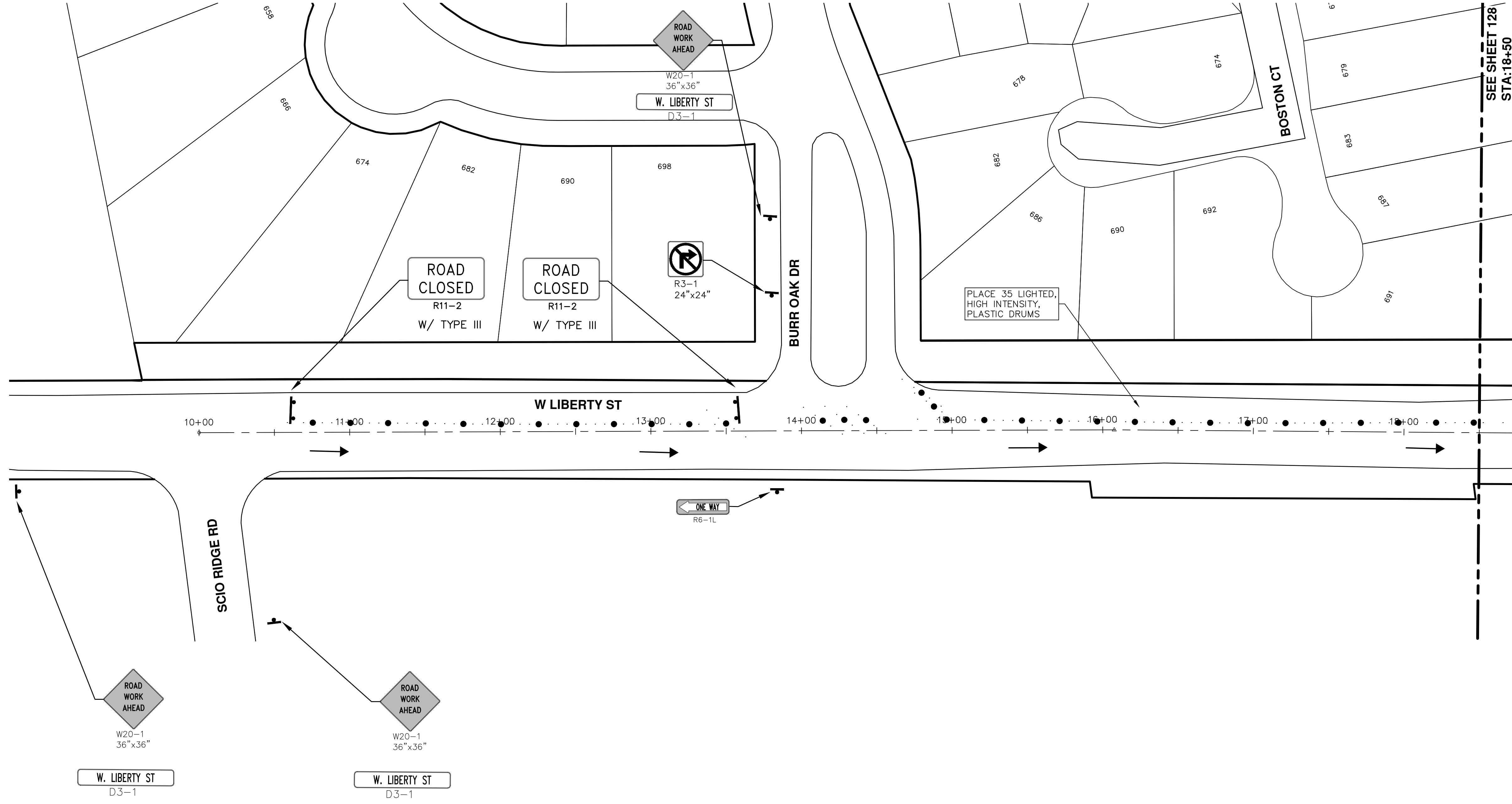





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 ANN ARBOR: 734-754-4410
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		CHECKED

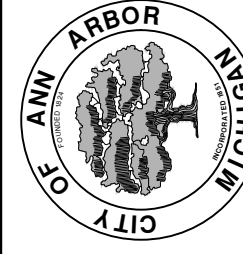
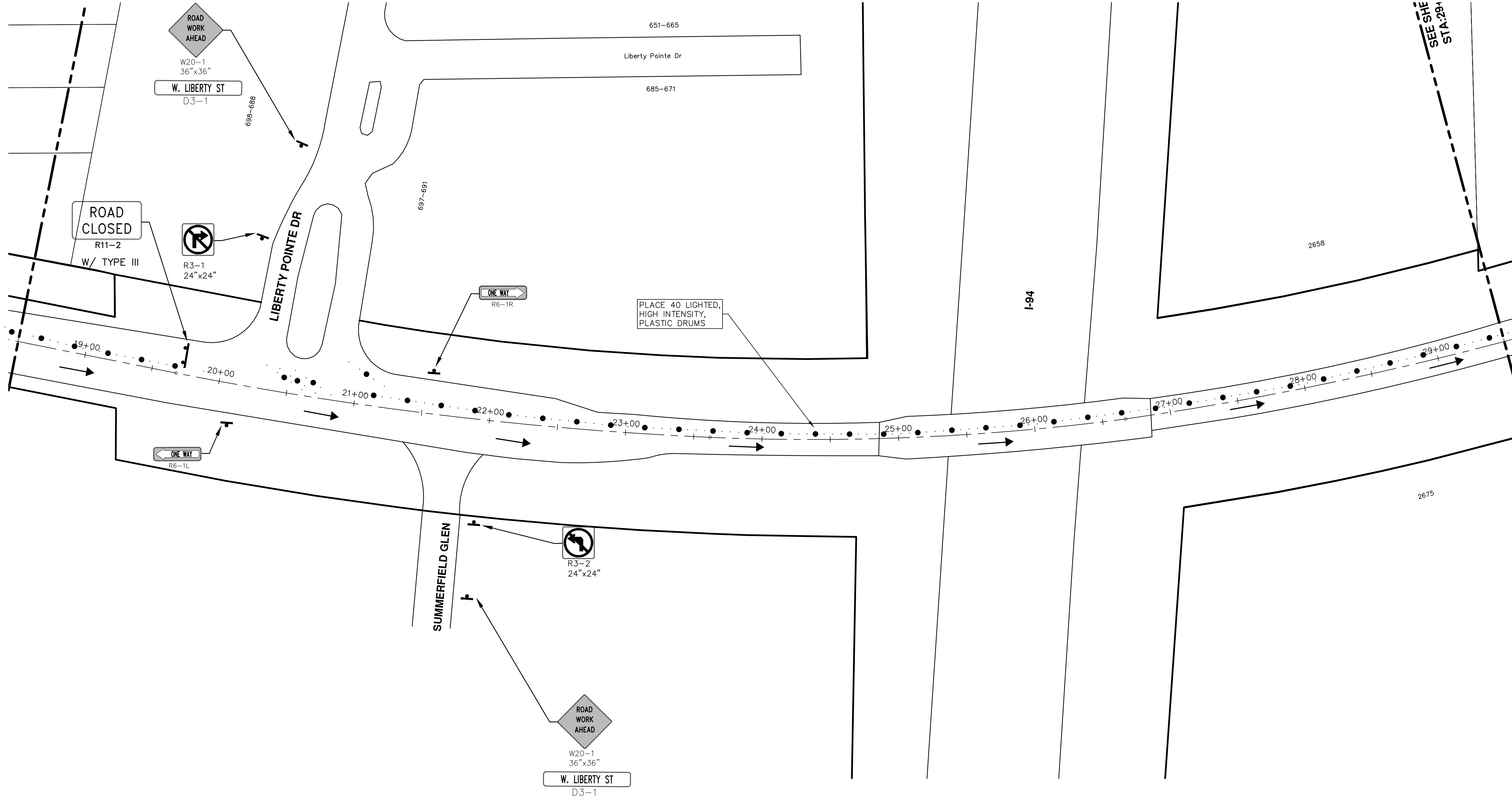
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SCALE PLAN: 1" = 40' 	DRAWING No. 2017004-124	DATE 03-08-2017	DAD CHECKED
SHEET No. 124 OF 136	REV. 00 BID SET DRAWN AG.GS.RG DATE 03-08-2017 DESCRIPTION	DRAWN CHECKED	DAD CHECKED

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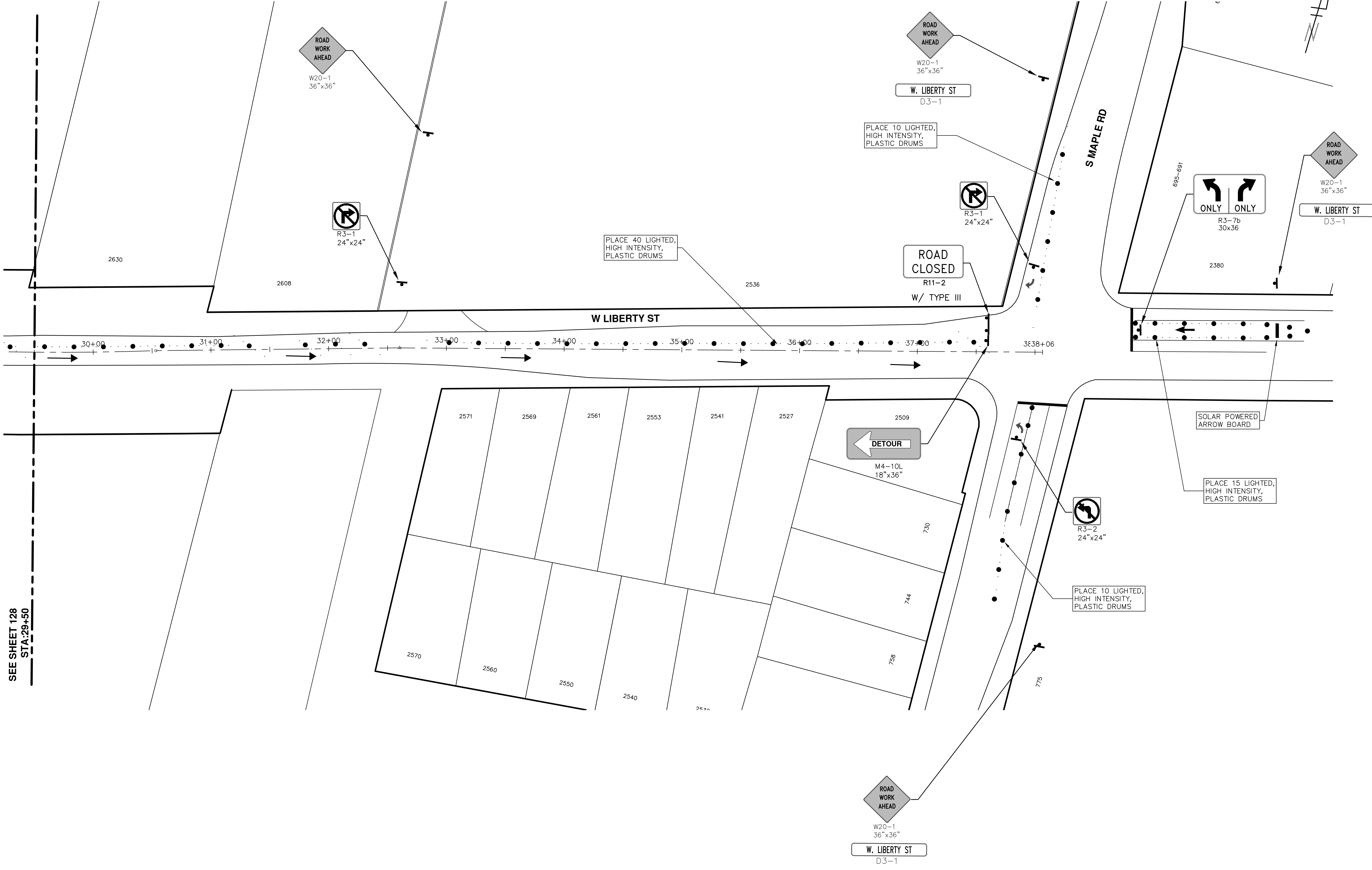


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG,CS,RG	DAD

811
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SEE SHEET 128
STA: 29+50

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

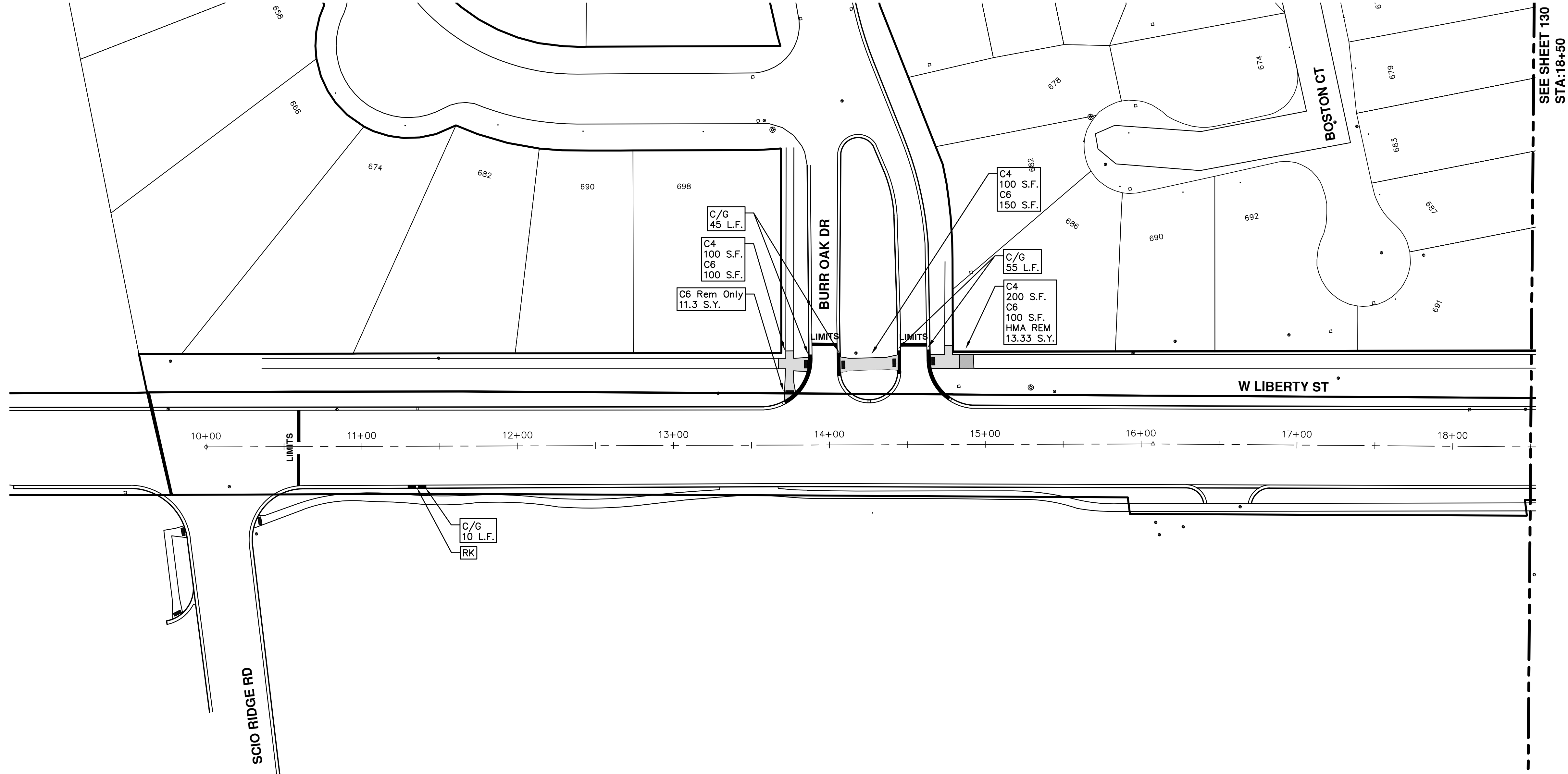
SCALE PLAN: 1" = 40'
DRAWING No. 2017004-126

811
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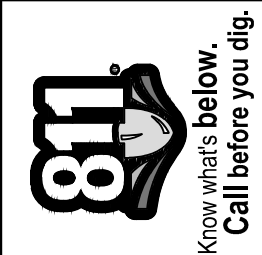
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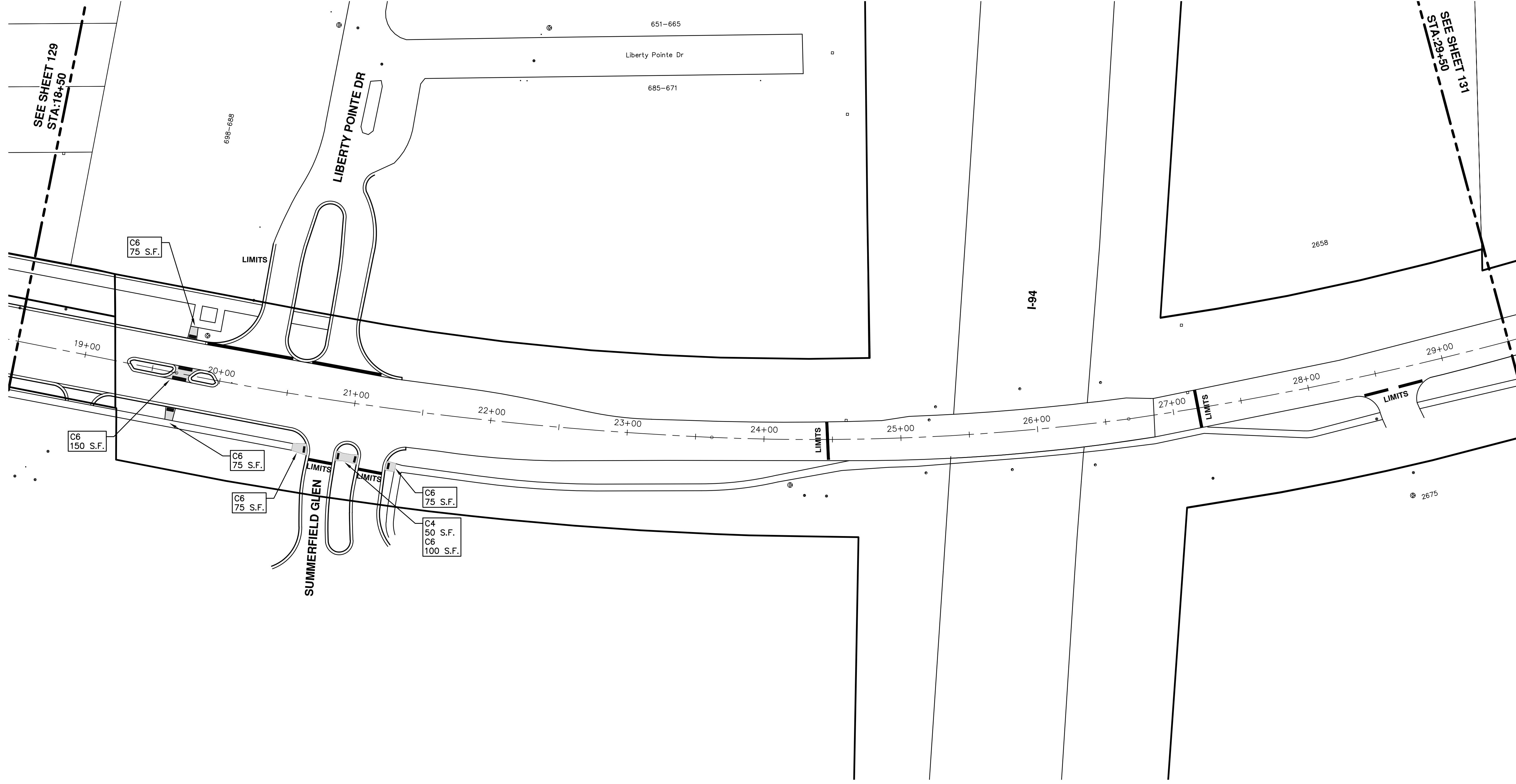
SHEET No. 126 OF 136



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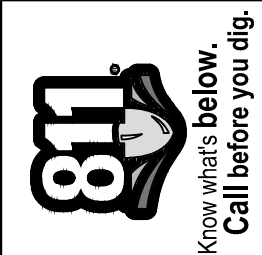
SEE SHEET 129
STA: 18+50

SEE SHEET 131
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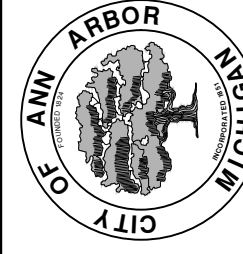
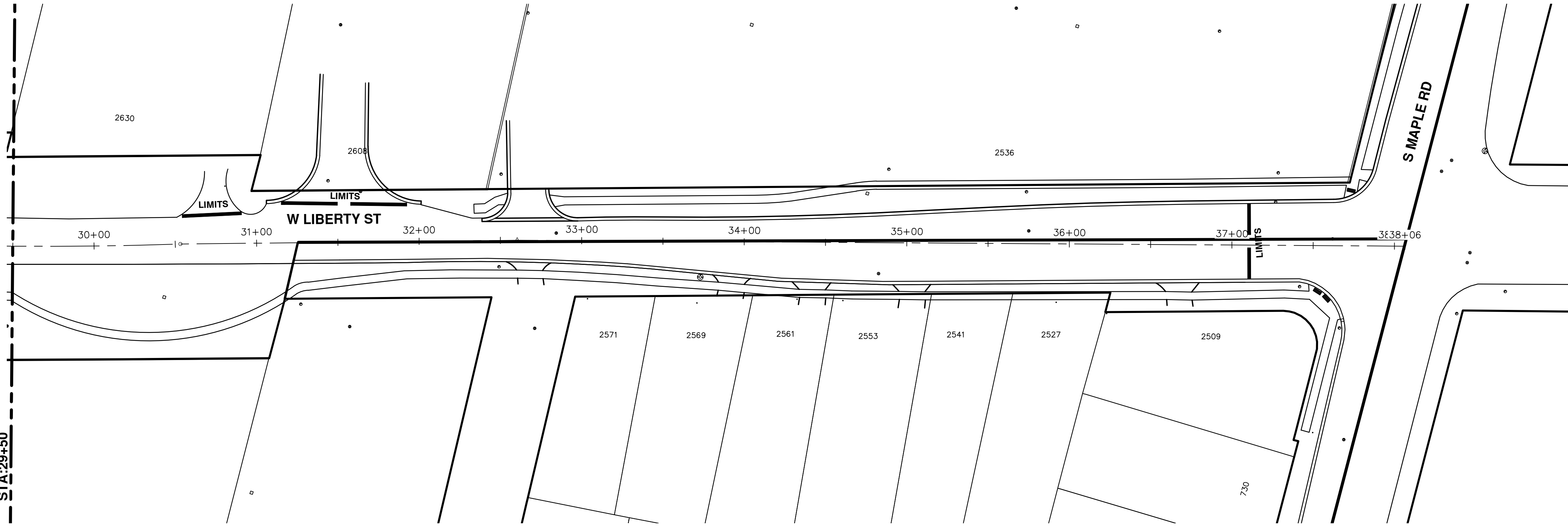


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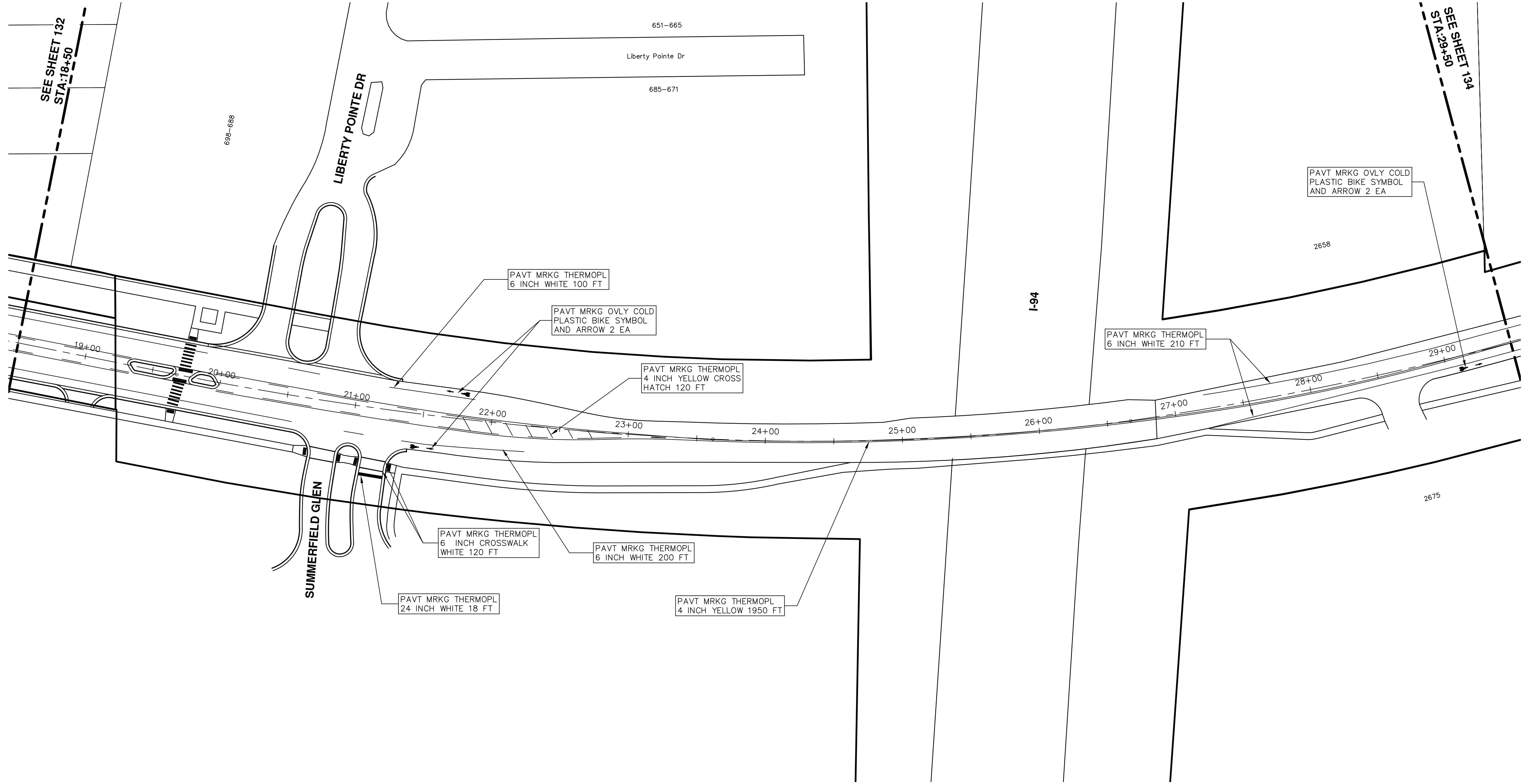
SEE SHEET 130
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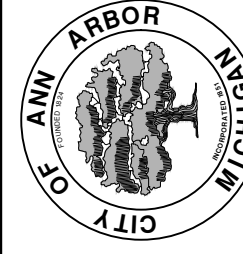
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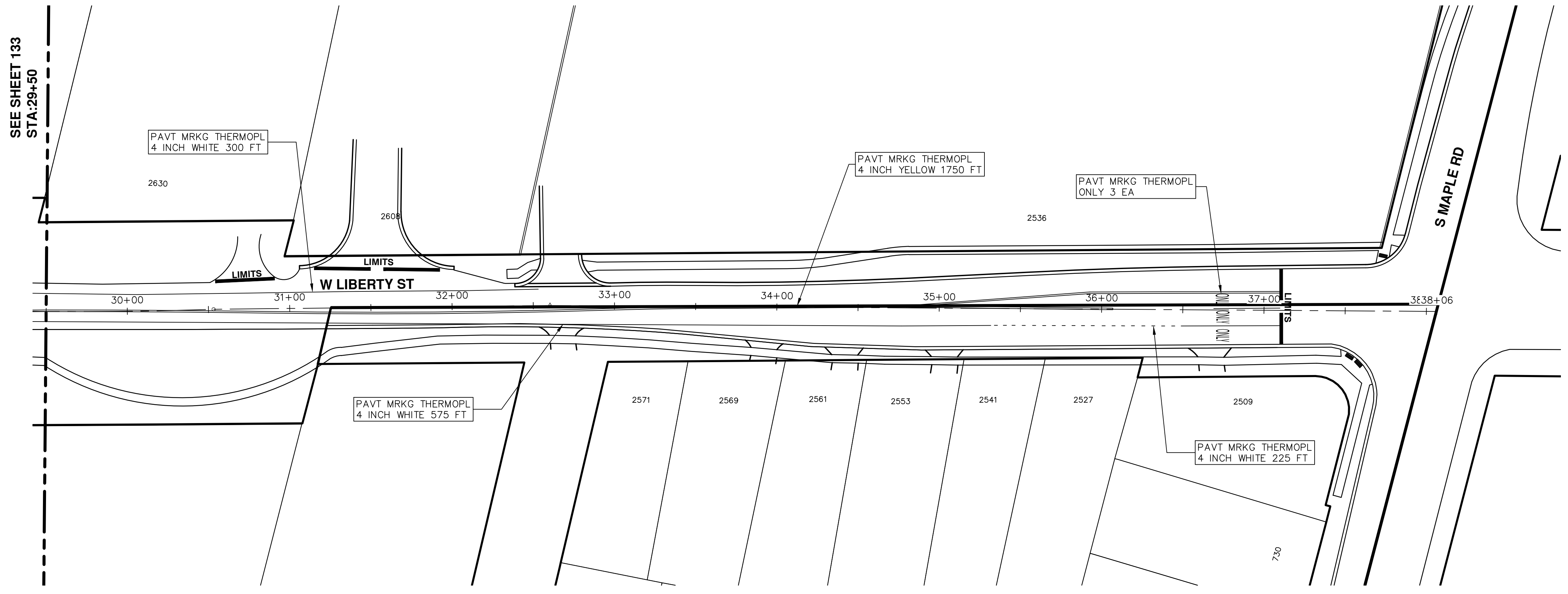
SEE SHEET 134
STA: 29+50



CITY OF ANN ARBOR
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.GSRG	DAD





SEE SHEET 133
STA:29+50

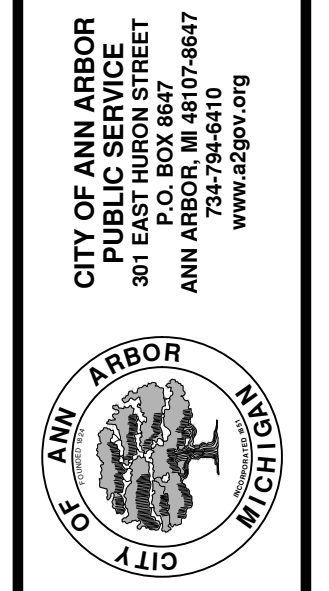
PAVT MRKG THERMOPL
4 INCH WHITE 300 FT

PAVT MRKG THERMOPL
4 INCH YELLOW 1750 FT

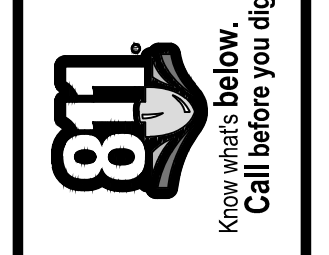
PAVT MRKG THERMOPL
ONLY 3 EA

PAVT MRKG THERMOPL
4 INCH WHITE 575 FT

PAVT MRKG THERMOPL
4 INCH WHITE 225 FT



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	03-08-2017	AG.GSRG	DAD





CITY OF ANN ARBOR PROJECT MANAGEMENT

PROJECT LOCATION: W. STADIUM BLVD

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 7 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.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT AREA, INCLUDING GATE AND MONUMENT BOXES.

PHASE II

- REPEAT ITEMS 1 THRU 5 IN THE ORDER SHOWN ABOVE.
- REMOVE 2 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.
- ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION.
- CLEAN PAVEMENT AND PLACE 2 INCH TOP COURSE HMA MIX (MAJOR STREETS) OVER ENTIRE STREET.
- 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
2030011	Dr Structure, Rem	Ea	12.000
2030015	Sewer, Rem, Less than 24 inch	Ft	120.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	486.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	281.000
2057011	Grading, Sidewalk	Syd	164.000
2057011	Grading, Sidewalk Ramp	Syd	117.000
2057021	Subgrade Undercutting, Type IIA	Cyd	311.000
2087050	Erosion Control, Inlet Filter	Ea	24.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	120.000
4030200	Dr Structure, 24 inch dia	Ea	12.000
4037001	Dr Structure Cover, Special	Ea	2.000
4037050	Dr Structure Cover, Type B, Modified	Ea	5.000
4037050	Dr Structure Cover, Type K, Modified	Ea	13.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	14.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	11.000
5010003	Cold Milling HMA Surface	Ton	1,636.000
5010005	HMA Surface, Rem	Syd	54.000
5010057	HMA, 5E3	Ton	1,579.000
5010061	HMA Approach	Ton	57.000
5017031	HMA, Wedging, 36A	Ton	8.000
6027021	Flowable Fill	Cyd	18.000
8037001	Detectable Warning Surface, Modified	Ft	90.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1050.000
8037010	Sidewalk with Integral Retaining Wall, 6 inch to 18 inch Height	Sft	20.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	1475.000
8110049	Pav Mrkg, Oly Cold Plastic, Direction Arrow Sym, Bike	Ea	10.000
8110058	Pav Mrkg, Oly Cold Plastic, Bike, Small Sym	Ea	10.000
8110153	Pav Mrkg, Sprayable Thermopl, 4 inch, White	Ft	206.000
8110154	Pav Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	7,708.000
8110155	Pav Mrkg, Sprayable Thermopl, 6 inch, White	Ft	9,246.000
8110197	Pav Mrkg, Thermopl, 6 inch, Crosswalk	Ft	725.000
8110218	Pav Mrkg, Thermopl, 24 inch, Stop Bar	Ft	233.000
8117001	Pav Mrkg, Thermopl, 24 inch, Crosswalk	Ft	184.000
8117050	Pav Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	3.000
8117050	Pav Mrkg, Thermopl, Only	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Fum	Ea	16.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	16.000
8120140	Lighted Arrow, Type C, Fum	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120260	Plastic Drum, High Intensity, Lighted, Fum	Ea	172.000
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	172.000
8120330	Sign, Portable, Changeable Message, Fum	Ea	3.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	3.000
8120350	Sign, Type B, Temp, Prismatic, Fum	Sft	735.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	735.000
8127050	No Parking Sign	Ea	61.000
8167011	Slope Restoration	Syd	179.000

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cold Milling HMA Surface • 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
40.0	D3-1	Street Name Sign	4.000	160.000
1.0	M4-10L	Detour Arrow (Left) Sign	6.000	6.000
1.0	M4-10R	Detour Arrow (Right) Sign	6.000	6.000
1.0	M4-8a	End Detour Sign	3.000	3.000
5.0	M4-9L	Detour Sign (w/Left Arrow)	5.000	25.000
2.0	M4-9R	Detour Sign (w/Right Arrow)	5.000	10.000
7.0	M4-9S	Detour Sign (w/Thru Arrow)	5.000	35.000
4.0	R11-4	Road Closed Sign ("Road Closed To Thru Traffic")	12.500	50.000
11.0	R6-1L	One Way (Left) Sign	3.000	33.000
11.0	R6-1R	One Way (Right) Sign	3.000	33.000
4.0	SP-1	Special Sign	20.000	80.000
14.0	W20-1	Road Work Ahead Sign	9.000	126.000
1.0	W20-2	Detour Ahead Sign	9.000	9.000
6.0	W20-3	Road Closed Ahead Sign	9.000	54.000
1.0	W20-4	One Lane Road Sign ("One Lane Road Ahead")	9.000	9.000
		TOTAL		639.000



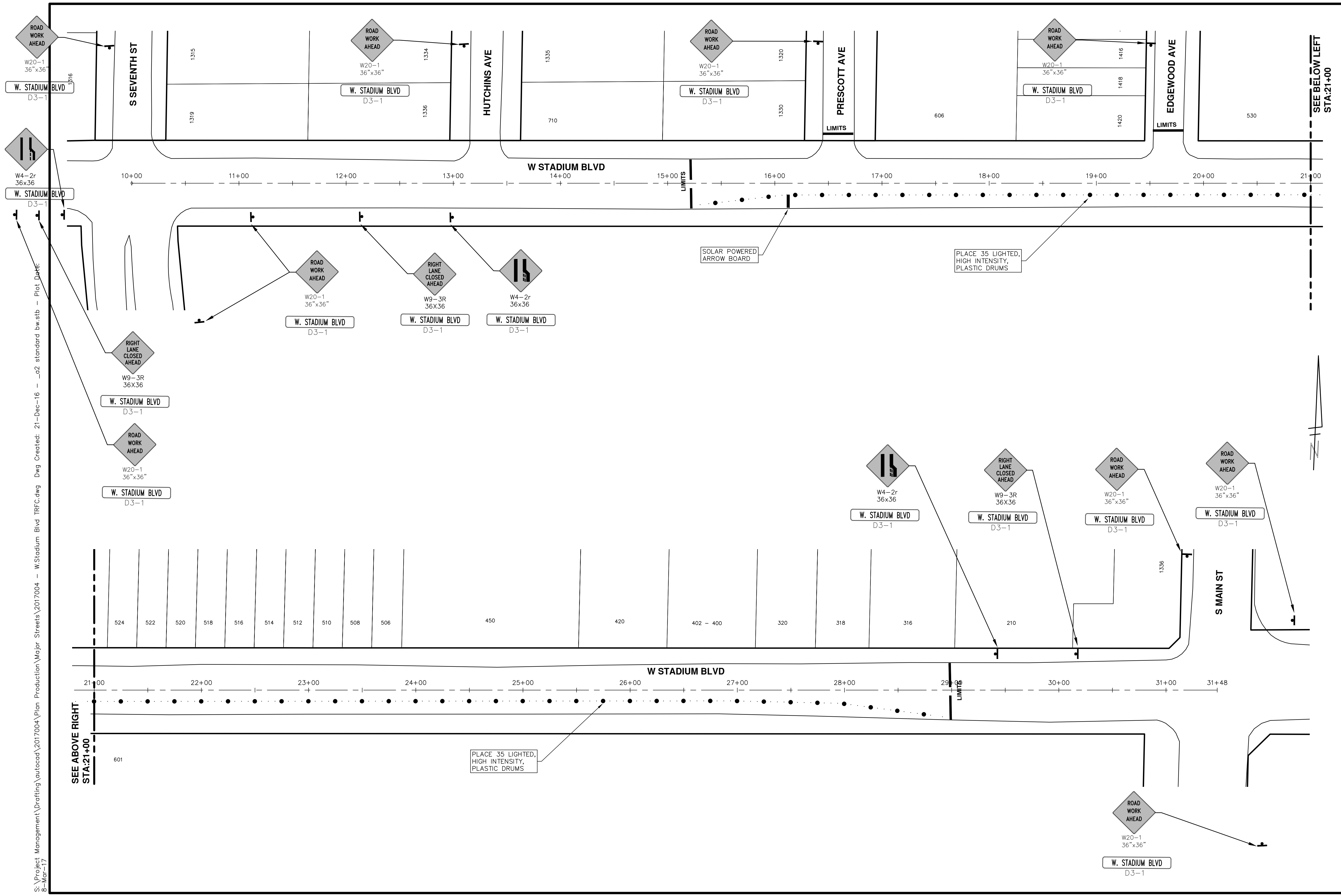
PROJECT MANAGEMENT SERVICES UNIT
CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

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ANNUAL STREET RESURFACING - 2017
W. STADIUM BLVD
DRAWING No. 2017004-133

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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.

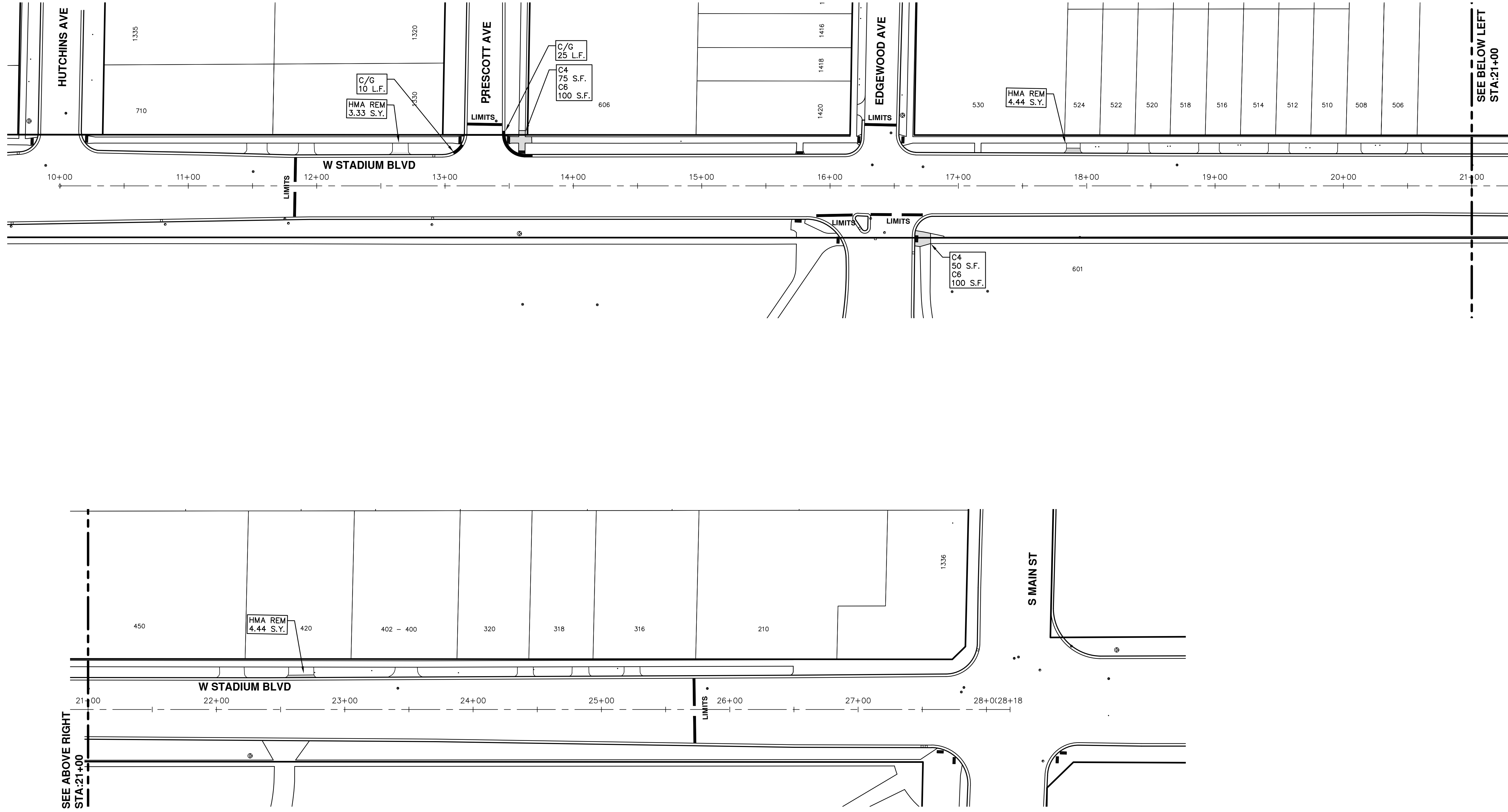
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SCALE PLAN: 1" = 40'
 DRAWING No. 2017004-134

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: 8-Mar-17

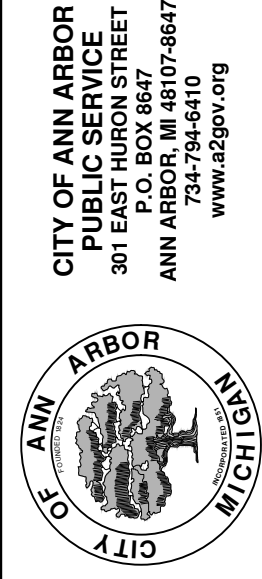


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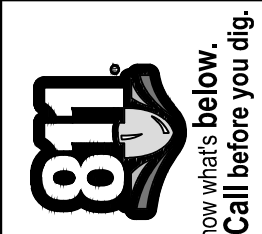
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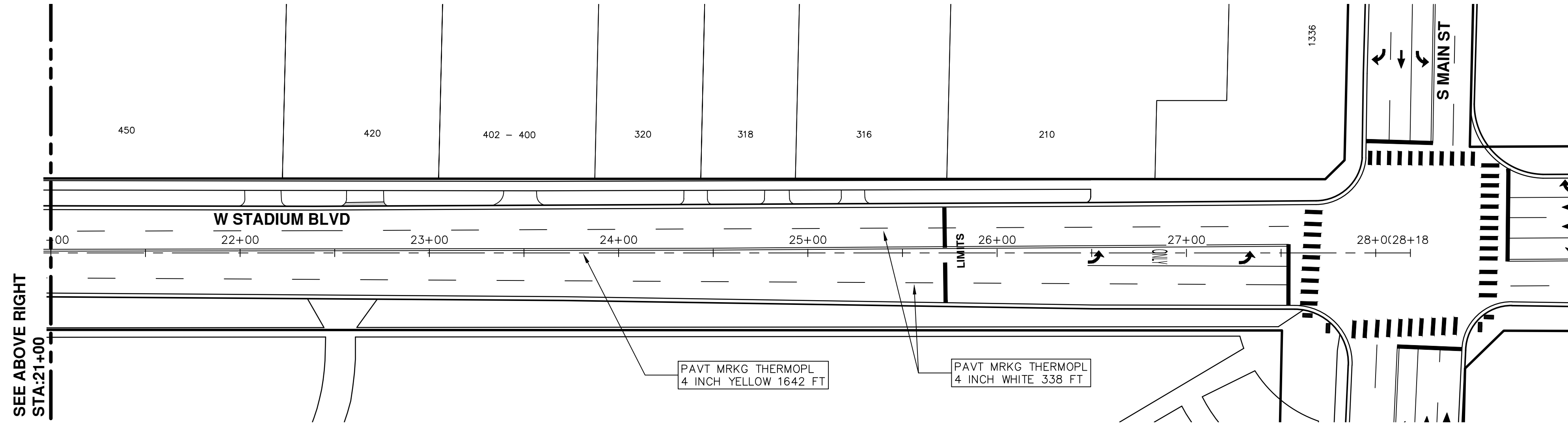
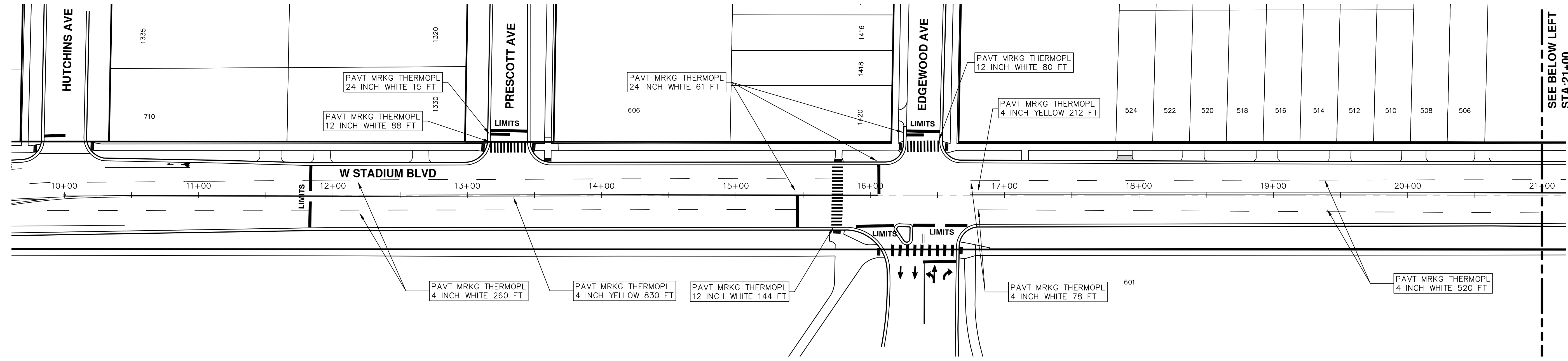
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
SCALE PLAN: 1"=80'
DRAWING No. 2017004-135

ANNUAL STREET RESURFACING - 2017
W STADIUM BLVD
STA. 10+00 - STA. 28+18



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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STA:21+00

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

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

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