



CITY OF ANN ARBOR PROJECT MANAGEMENT

2013 ANNUAL RESURFACING PROGRAM

BID No. 4269, FILE No. 2013004

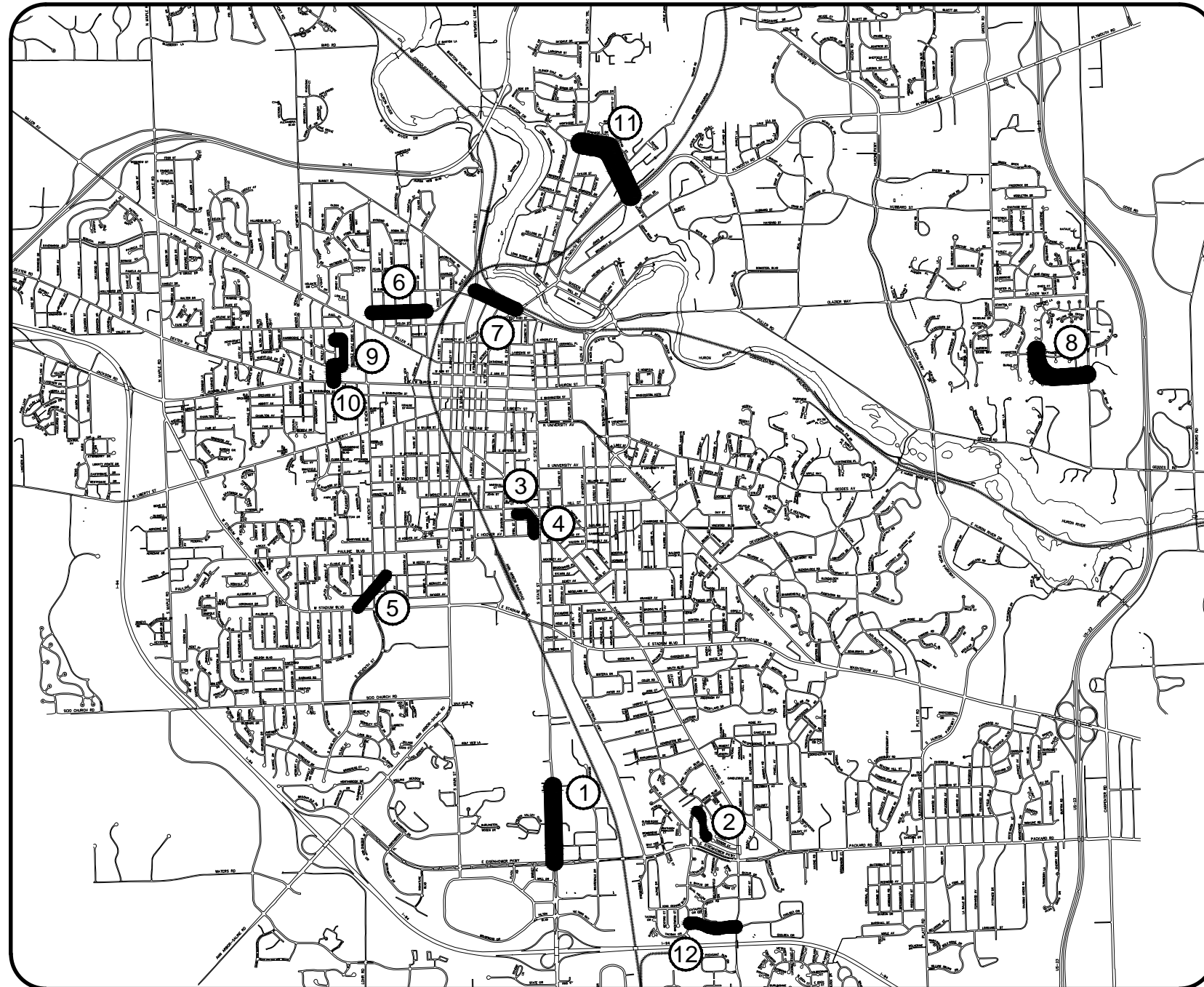


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WASTE COLLECTION SCHEDULE

STREET	COLLECTION DAY
STATE	MONDAY
SORRENTO	MONDAY
ALLEY MARY	MONDAY
ALLEY BENJAMIN	MONDAY
FRANKLIN, STADIUM TO SEVENTH	THURSDAY
FRANKLIN, SEVENTH TO HUTCHINS	MONDAY
HISCOCK	FRIDAY
DEPOT	MONDAY/WEDNESDAY
WALDENWOOD	TUESDAY
MARK HANNAH	FRIDAY
ARBANA	FRIDAY
BARTON	WEDNESDAY
BIRCH HOLLOW	MONDAY



NOTES:

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND ITS DETAILS WHICH ARE INCLUDED BY REFERENCE. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 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 (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) 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.



PROJECT MANAGEMENT SERVICE UNIT

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

NICHOLAS S. HUTCHINSON, P.E. - MI LICENSE No. 46789
INTERIM PROJECT MANAGEMENT MANAGER

DATE

PREPARED UNDER THE SUPERVISION OF

ELIZABETH ROLLA, P.E. - MI LICENSE No. 40106
PROJECT MANAGER

DATE

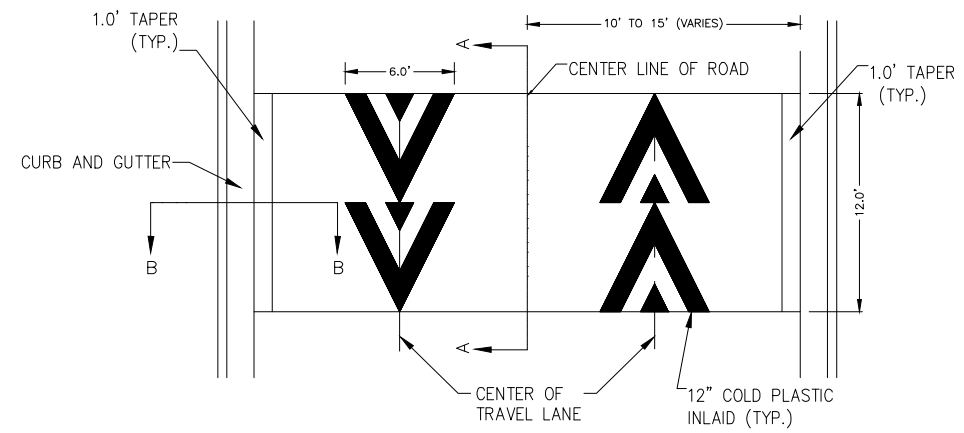
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

PROJECT DESCRIPTION AND LIMITS

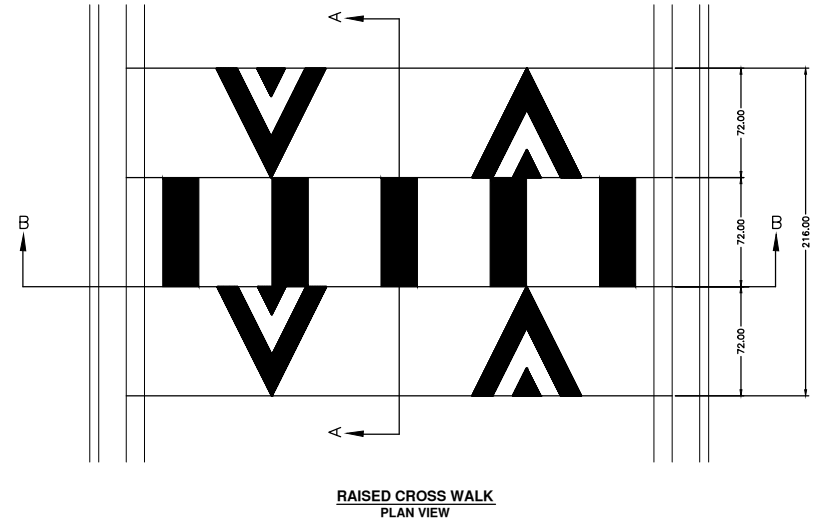
PROJECT DESCRIPTION

DRAWING No.
2013004 - 1

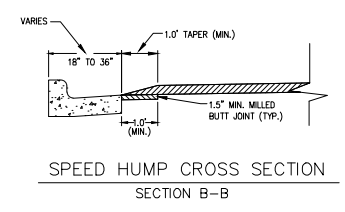
SHEET No.
1 OF 89



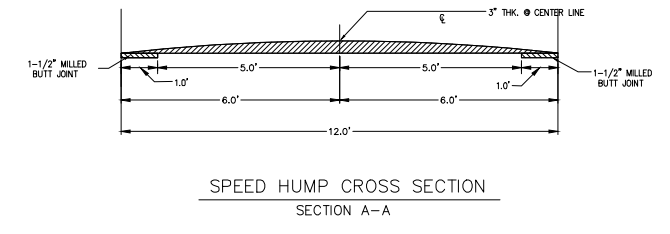
PAVEMENT MARKING DETAIL



RAISED CROSS WALK PLAN VIEW



SPEED HUMP CROSS SECTION SECTION B-B



SPEED HUMP CROSS SECTION SECTION A-A

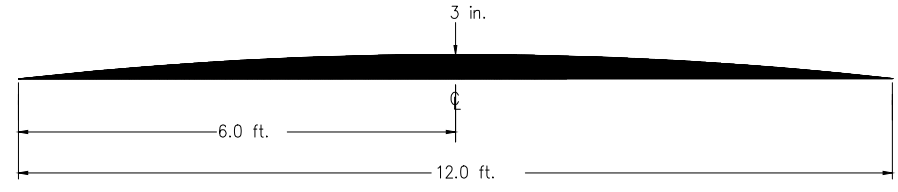


Figure 1: SPEED HUMP CROSS SECTION

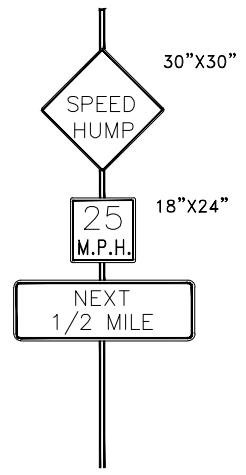


Figure 2: WARNING SIGNS

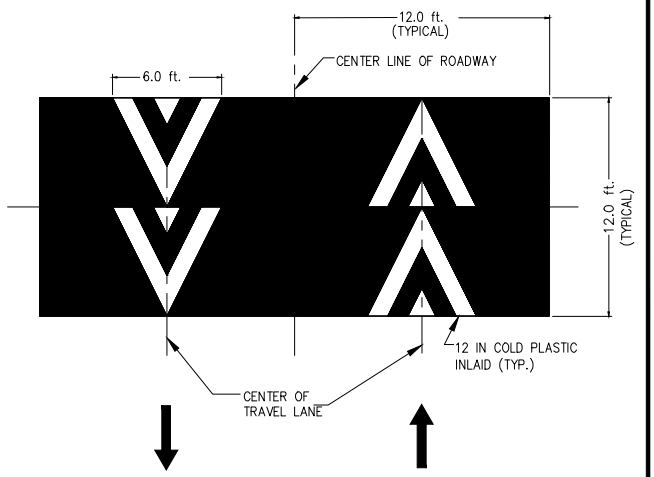


Figure 3: PAVEMENT MARKING

PUBLIC SERVICES DEPARTMENT CITY OF ANN ARBOR			
SPEED HUMP DETAILS.			
DR. BY PWJ/NSG	CH. BY SL	DRAWING NO. U:/Eng/Traffic Calming/SPEED HUMPfig1.dwg	
SCALE	DATE 5-2-03	SHEET NO. 1 OF 1	
INCH			

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

PROJECT DESCRIPTION AND LIMITS

DRAWING No. 2013004 - 2

SHEET No. 2 OF 89



PROJECT MANAGEMENT SERVICE UNIT
CITY OF ANN ARBOR PUBLIC SERVICE
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
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CITY OF ANN ARBOR PROJECT MANAGEMENT 2013 ANNUAL RESURFACING PROGRAM

PROJECT LOCATION: STATE STREET - EISENHOWER TO OAKBROOK

FILE No. 2013004-3



S:\Project Management\Design\2013004 Resurfacing\Plan Production\State OakBrook\2013004\ay-State OakBrook.dwg Dwg Created: 20-Sep-12 - _a2 standard bw.stb - Plot Date: 1-Feb-13

QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
207	Cold Mill Pavement	Tons	3910
218	Stress Absorbing Membrane Interlayer	S.Y.	12564
226	Bit. Pvmnt. Wearing, 5E3	Tons	1420
227	Bit. Pvmnt. Base or Leveling, 4E3	Tons	2130
230	Remove Curb & Gutter	L.F.	1405
232	Remove Conc. Sidewalk/Drive	S.F.	2420
237	Conc. Curb & Gutter	L.F.	1405
240	4" Sidewalk Or Ramp	S.F.	1420
241	6" Sidewalk & Drives	S.F.	1000
245	Detectable Warning, Cast in Place	S.F.	120
254	Lower Structures	Each	14
255	Lwr. Mon. + GV. Box	Each	5
256	Adj. Structure Covers	Each	14
257	Adj. Curb Inlet Structure Cover	Each	2
258	Adj. Mon. & GV. Box	Each	6
259	Manhole Flange & Cover (A)	Each	11
281	Arrow Panel, Furn. & Operate	Each	2
282	Plastic Drum, Furn. & Operate	Each	70
283	Type 3 Barr.	Each	4
284	Temp Signs Type B	S.F.	280
286	Message Board, Furn.	Each	2
287	Message Board, Operate	Each	2
295	36" Tubular Markers, Furn. & Operate	Each	680
580	Remove Pavement Marking	L.F.	4800
587	Waterbourne Paint, Pvmnt. Mkg., 4" White or Yellow	L.F.	3800
594	4" White Thermo.	L.F.	1400
595	4" Yellow Thermo.	L.F.	5000
596	6" White Thermo.	L.F.	4110
597	24" White Thermo.	L.F.	320
598	Thermo. Pvmnt. Marking Symbol	Each	13

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
0	W20-1	"ROAD WORK AHEAD"
0	W20-2	"DETOUR AHEAD"
0	W20-3	"ROAD CLOSED AHEAD"
0	W20-5	"(RIGHT OR LEFT) LANE CLOSED AHEAD"
0	W4-2	LANE DROP SYMBOL, RIGHT OR LEFT
0	W20-1a	WORK SYMBOL
0	W1-4	REVERSE CURVE
0	W1-6	ONE DIRECTION ARROW
0	M4-9 L&R&S	DETOUR (LEFT, RIGHT, OR STRAIGHT ARROW)
0	D3-1	CONVENTIONAL GUIDE
0	M4-8a	"DETOUR ENDS"
0	M4-10	"DETOUR"
0	R6-1 L&R	"ONE WAY" (LEFT OR RIGHT)
0	TYPE III	TYPE III LIGHTED BARRICADE
0	TYPE II	TYPE II LIGHTED BARRICADE (DRUM)
0	R11-2	"ROAD CLOSED"
0	R11-4	"ROAD CLOSED TO THRU TRAFFIC"
0	TYPE A	LIGHTED ARROW, TYPE A
0	TYPE B	LIGHTED ARROW, TYPE B
0	R9-9	SIDEWALK CLOSED
0	R9-11	SIDEWALK CLOSED AHEAD CROSS HERE
0	R5-9	SIDEWALK CLOSED USE OTHER SIDE
0	G20-2	"END ROAD WORK"
0	R5-18b	"INJURE/KILL A WORKER \$7500+15 YEARS"
0	R5-18cLA	"WORK ZONE BEGINS/TRAFFIC FINES DOUBLED"
0	R3-1	NO RIGHT TURN
0	R3-2	NO LEFT TURN
0	SPECIAL	42"X48" SPECIAL SIGN
0	W20-5c	"CENTER LANE CLOSED AHEAD"
0	R2-1	SPEED LIMIT
0	TYPE C	LIGHTED ARROW, TYPE C
0	W3-5	REDUCED SPEED LIMIT AHEAD

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 5 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER.
7. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
8. PAVE 3 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
9. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 2 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
11. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
12. COMPLETE ALL PAVEMENT MARKINGS.
13. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

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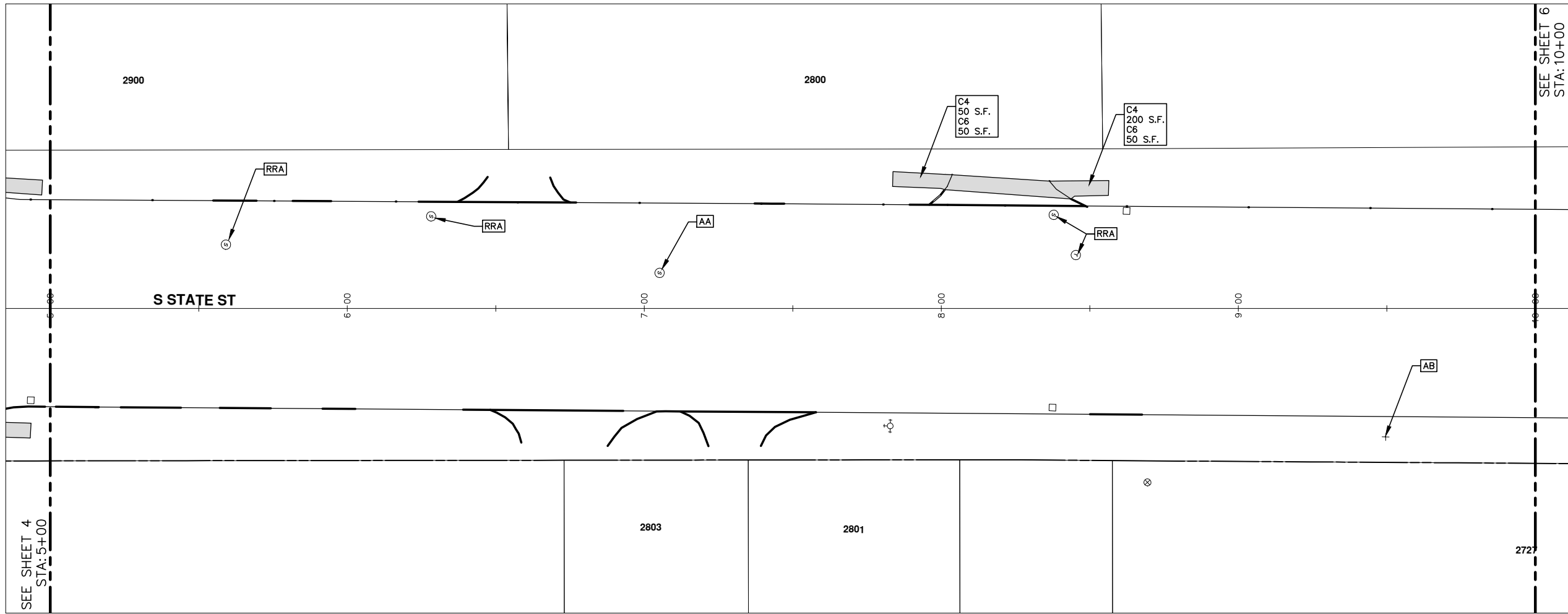
PROJECT MANAGEMENT SERVICE UNIT

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

PROJECT DESCRIPTION AND LIMITS

DRAWING No.
2013004 - 3



SEE SHEET 6
STA: 10+00

SEE SHEET 4
STA: 5+00

CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP, H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP, OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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



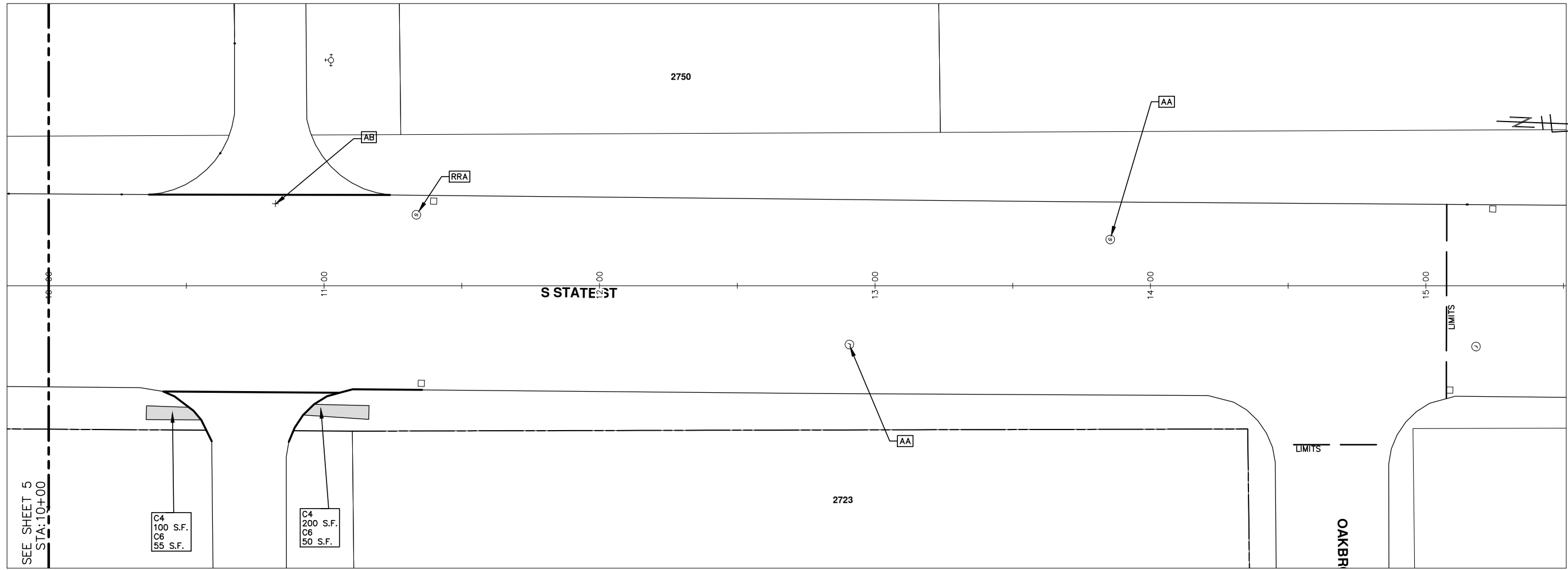
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
 STATE STREET - EISENHOWER TO OAKBROOK
 CONSTRUCTION PLAN, PG 2 OF 3

SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-5

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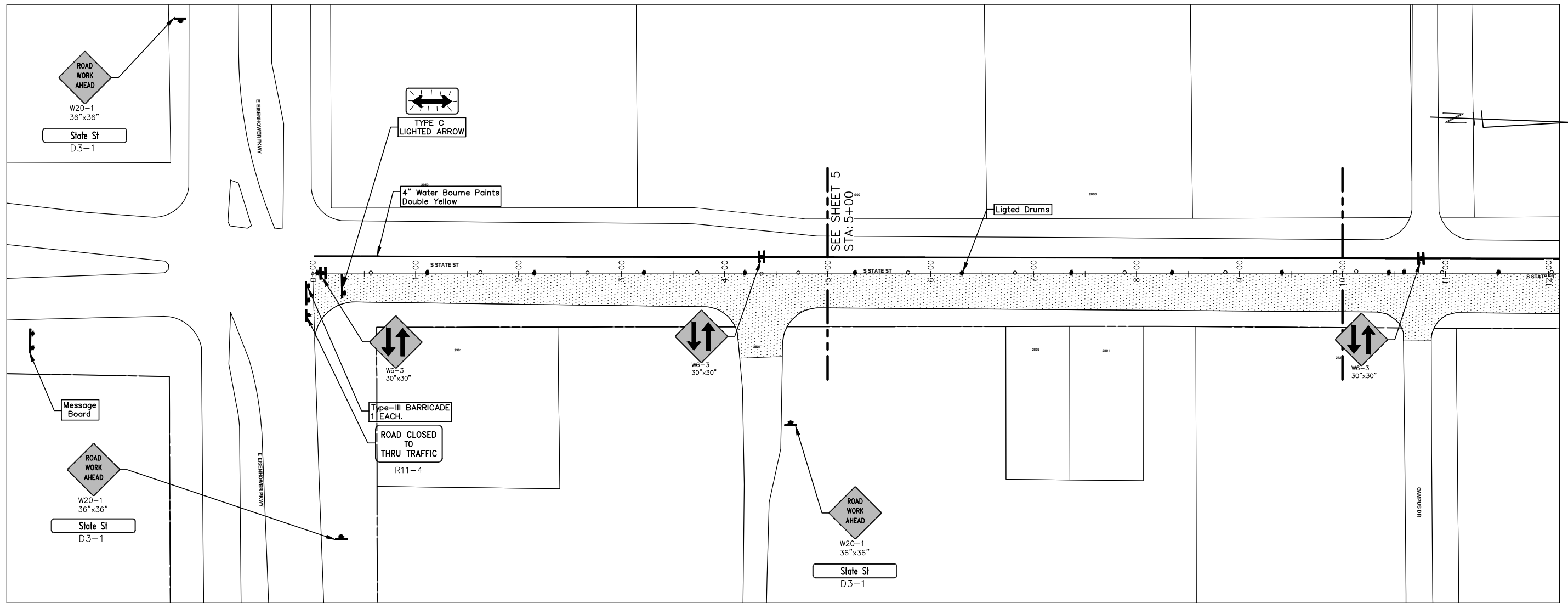
CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT -- ANY THICKNESS
RCW	RAISED CROSSWALK

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



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 STATE STREET - EISENHOWER TO OAKBROOK
 CONSTRUCTION PLAN, PG 3 OF 3
 SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-6

NO	REV.	DESCRIPTION	DATE	BY	CHECKED



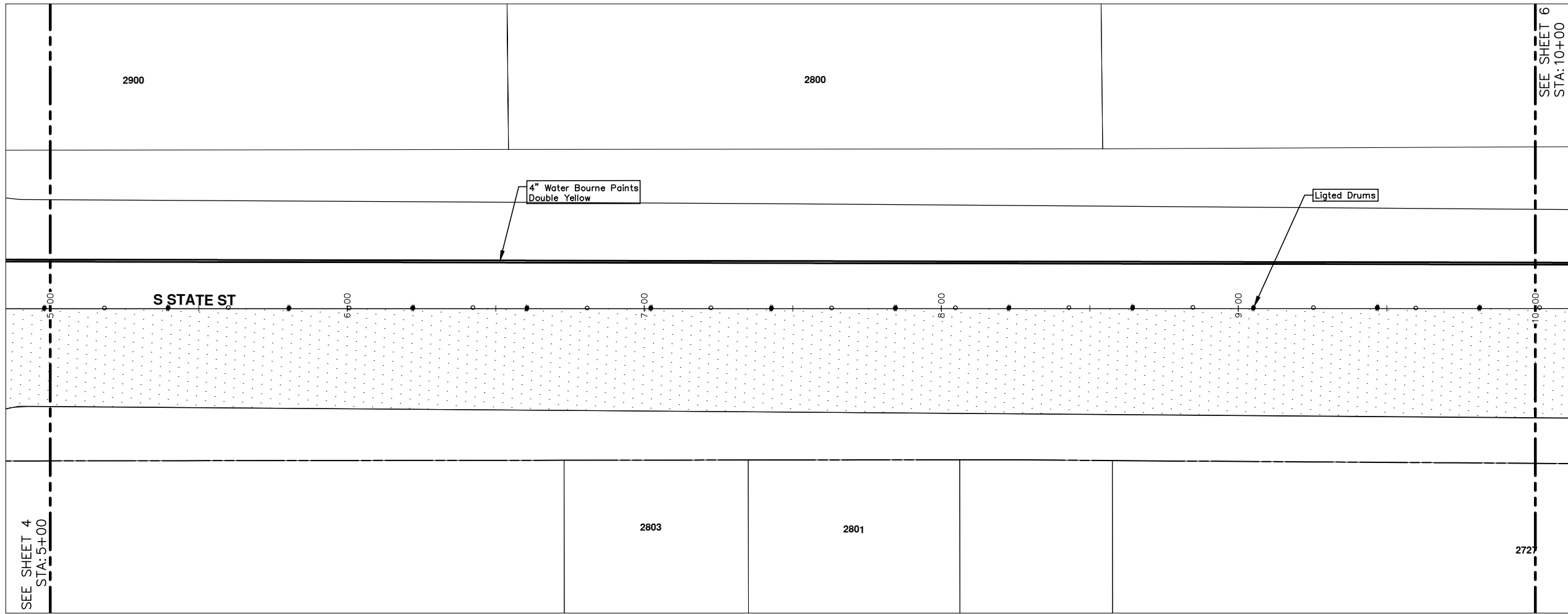
CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4\"/>

LEGEND	
SYMBOL	DESCRIPTION
	EXISTING SANITARY SEWER MANHOLE
	EXISTING STORM SEWER MANHOLE
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	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\"/>



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
 STATE STREET - EISENHOWER TO OAKBROOK
 TRAFFIC CONTROL PHASE I, PG 1 OF 3
 SCALE PLAN: Custom
 DRAWING No. 2013004-7

NO	OUT FOR BID	DESCRIPTION	DATE	BY	CHECKED



CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT -- ANY THICKNESS
RCW	RAISED CROSSWALK

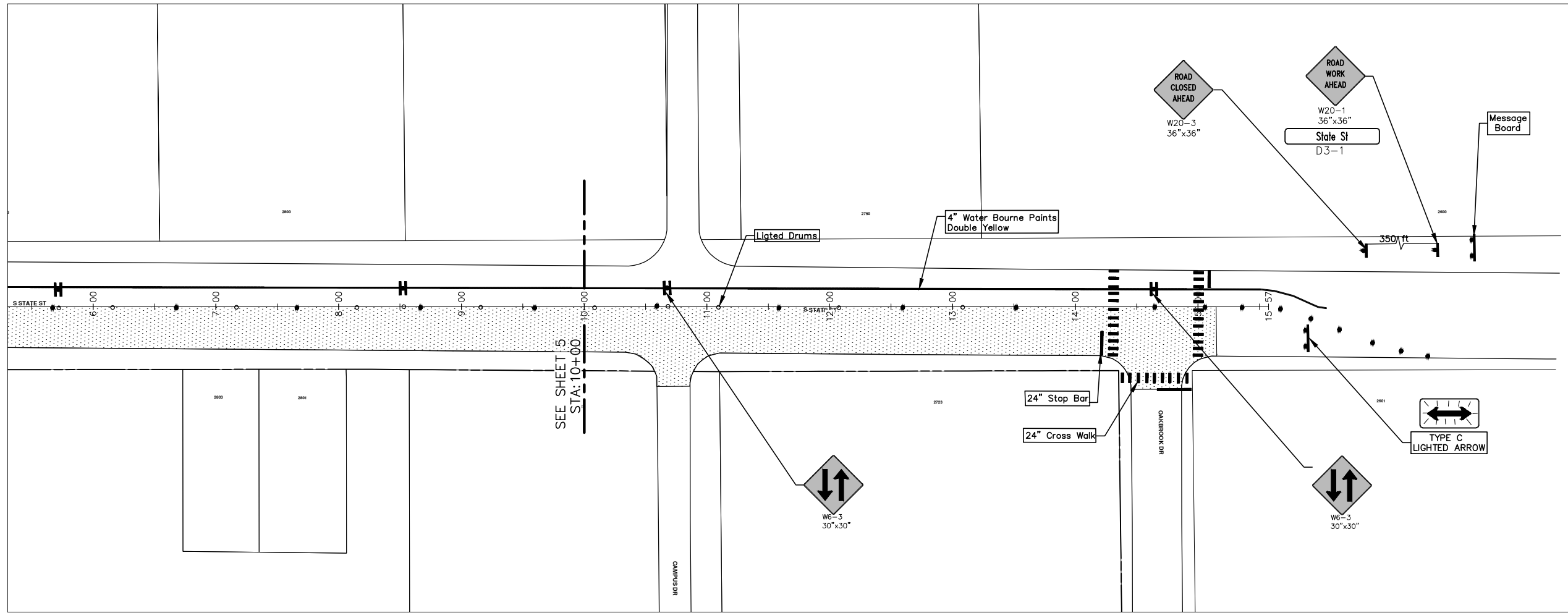
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SYMBOL	DESCRIPTION
	EXISTING SANITARY SEWER MANHOLE
	EXISTING STORM SEWER MANHOLE
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	MICHCON GAS CO. VALVE BOX,WELL
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	MONUMENT BOX
	REMOVE AND REPLACE CONC. SIDEWALK
	PLACE CONCRETE SIDEWALK
	REMOVE & REPLACE CONC. CURB & GUTTER
	CONSTRUCTION LIMITS
	6" WRAPPED UNDERDRAIN
	REMOVE CONCRETE SIDEWALK
	SUBGRADE UNDERCUT

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
 STATE STREET - EISENHOWER TO OAKBROOK
 TRAFFIC CONTROL PHASE 1, PG 2 OF 3

SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-8

8 OF 89

REV.	DESCRIPTION	DATE	DRAWN BY	CHECKED BY




CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4\"/>

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\"/>

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 STATE STREET - EISENHOWER TO OAKBROOK
 TRAFFIC CONTROL PHASE I, PG 3 OF 3

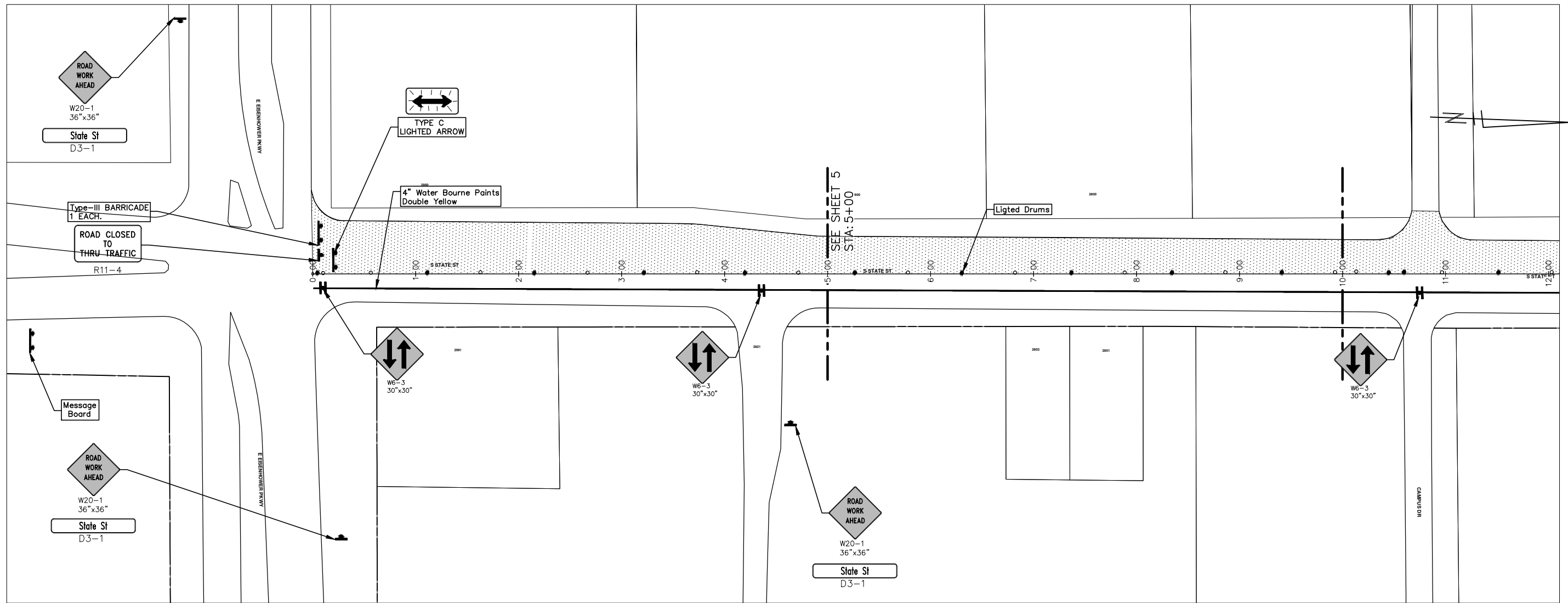
SCALE PLAN: Custom
 DRAWING No. 2013004-9
 SHEET No. 9 OF 89



REV.	DESCRIPTION	DATE	DRAWN BY	CHECKED BY

Know what's below. Call Before you dig.

S:\Project Management\Design\2013004 Resurfacing\Plan Production\State OakBrook\2013004MTRF Phase II-State OakBrook.dwg Dwg Created: 31-Jan-13 - _a2 standard bw.stb - Plot Date: 1-Feb-13

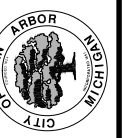


CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT -- ANY THICKNESS
RCW	RAISED CROSSWALK

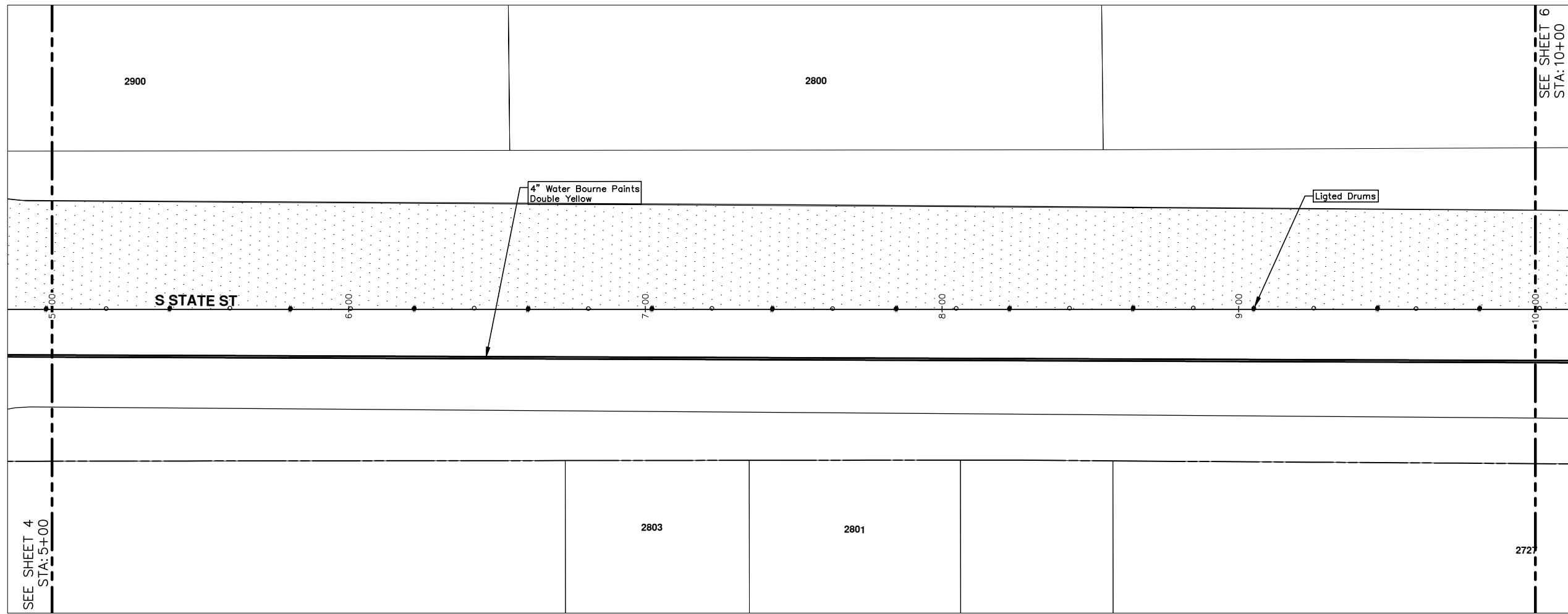
LEGEND	
SYMBOL	DESCRIPTION
	EXISTING SANITARY SEWER MANHOLE
	EXISTING STORM SEWER MANHOLE
	EXISTING WATER MAIN VALVE IN WELL
	WATER MAIN GATE VALVE IN BOX
	FIRE HYDRANT
	MICHCON GAS CO. VALVE BOX,WELL
	AMERITECH TELEPHONE VAULT
	ELECTRIC MANHOLE
	SOIL BORING
	EXISTING STORM SEWER INLET
	MONUMENT BOX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



REV.	DESCRIPTION	DATE	DRAWN BY	CHECKED BY



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
 STATE STREET - EISENHOWER TO OAKBROOK
 TRAFFIC CONTROL PHASE II, PG 1 OF 3
 SCALE PLAN: Custom
 DRAWING No. 2013004-10



CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT -- ANY THICKNESS
RCW	RAISED CROSSWALK

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

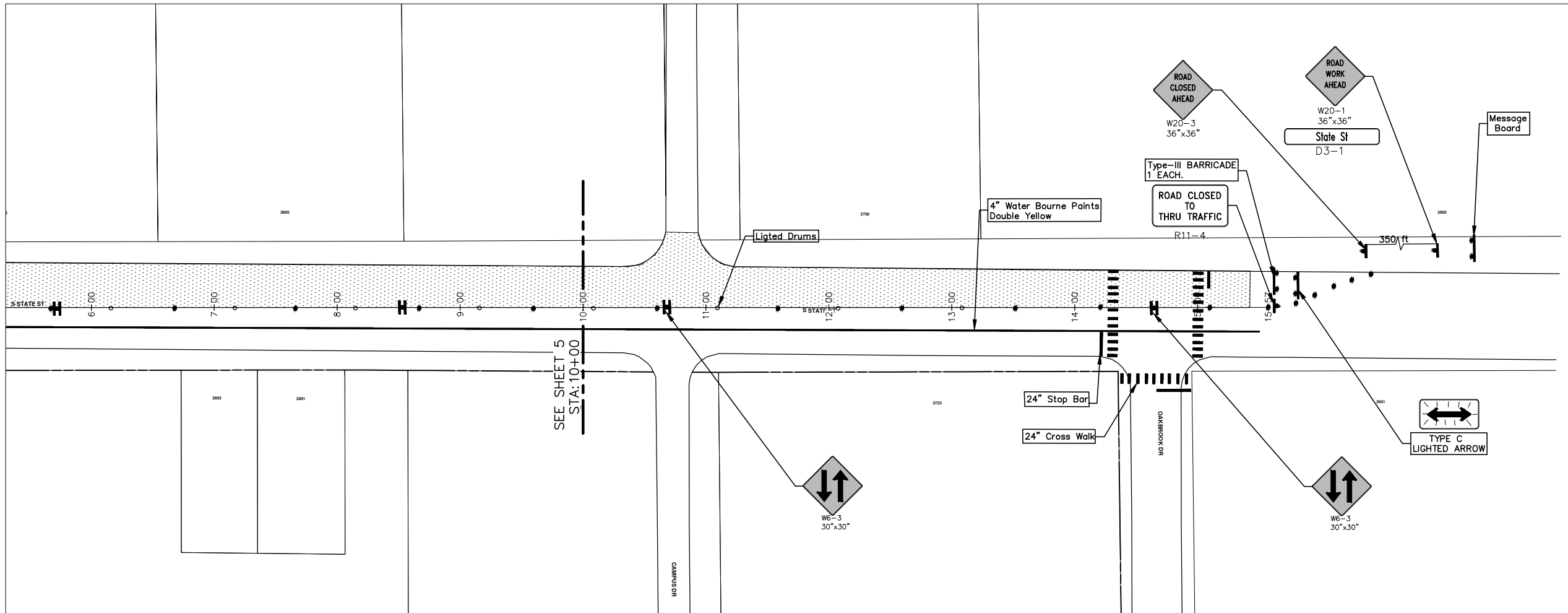
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 STATE STREET - EISENHOWER TO OAKBROOK
 TRAFFIC CONTROL PHASE II, PG 2 OF 3

SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-11

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

NO	OUT FOR BID	DATE	BY

NO	DESCRIPTION	DATE	BY	CHECKED



CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4\"/>

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\"/>

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 STATE STREET - EISENHOWER TO OAKBROOK
 TRAFFIC CONTROL PHASE II, PG 3 OF 3

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

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SCALE PLAN: Custom

DRAWING No. 2013004-12

SHEET No. 12 OF 89



CITY OF ANN ARBOR PROJECT MANAGEMENT 2013 ANNUAL RESURFACING PROGRAM

PROJECT LOCATION: SORRENTO

FILE No. 2013004-4

QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
207	Cold Mill Pavement	Tons	9300
209	Subgrade Undercutting	C.Y.	510
222	Bit. Pvmnt. Base/Leveling, Regular	Tons	560
223	Bit Pvmnt. Wearing, Regular	Tons	370
230	Remove Curb & Gutter	L.F.	1720
232	Remove Conc. Sidewalk/Drive	S.F.	3120
239	Conc. Curb & Gutter Machine	L.F.	1721
240	4" Sidewalk Or Ramp	S.F.	350
241	6" Sidewalk & Drives	S.F.	2780
245	Detectable Warning, Cast in Place	S.F.	20
246	Integral Sidewalk Ret. Wall (< 6")	S.F.	10
250	2' Dia. Structure	Each	4
254	Lower Structures	Each	10
256	Adj. Structure Covers	Each	10
257	Adj. Curb Inlet Structure Cover	Each	8
259	Manhole Flange & Cover (A)	Each	9
260	Inlet Structure Cover (K)	Each	2
264	12" Storm Sewer	L.F.	40
267	6" Wrapped Underdrain	L.F.	800
271	21AA Limestone, C.I.P.	C.Y.	510
282	Plastic Drum, Furn. & Operate	Each	60
283	Type 3 Barr.	Each	1
284	Temp Signs Type B	S.F.	80
285	No Parking Signs	Each	24
596	6" White Thermo.	L.F.	70
597	24" White Thermo.	L.F.	14

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
0	W20-1	"ROAD WORK AHEAD"
0	W20-2	"DETOUR AHEAD"
0	W20-3	"ROAD CLOSED AHEAD"
0	W20-5	"(RIGHT OR LEFT) LANE CLOSED AHEAD"
0	W4-2	LANE DROP SYMBOL, RIGHT OR LEFT
0	W20-1a	WORK SYMBOL
0	W1-4	REVERSE CURVE
0	W1-6	ONE DIRECTION ARROW
0	M4-9 L&R&S	DETOUR (LEFT, RIGHT, OR STRAIGHT ARROW)
0	D3-1	CONVENTIONAL GUIDE
0	M4-8a	"DETOUR ENDS"
0	M4-10	"DETOUR"
0	R6-1 L&R	"ONE WAY" (LEFT OR RIGHT)
0	TYPE III	TYPE III LIGHTED BARRICADE
0	TYPE II	TYPE II LIGHTED BARRICADE (DRUM)
0	R11-2	"ROAD CLOSED"
0	R11-4	"ROAD CLOSED TO THRU TRAFFIC"
0	TYPE A	LIGHTED ARROW, TYPE A
0	TYPE B	LIGHTED ARROW, TYPE B
0	R9-9	SIDEWALK CLOSED
0	R9-11	SIDEWALK CLOSED AHEAD CROSS HERE
0	R5-9	SIDEWALK CLOSED USE OTHER SIDE
0	G20-2	"END ROAD WORK"
0	R5-18b	"INJURE/KILL A WORKER \$7500+15 YEARS"
0	R5-18cLA	"WORK ZONE BEGINS/TRAFFIC FINES DOUBLED"
0	R3-1	NO RIGHT TURN
0	R3-2	NO LEFT TURN
0	SPECIAL	42"X48" SPECIAL SIGN
0	W20-5c	"CENTER LANE CLOSED AHEAD"
0	R2-1	SPEED LIMIT
0	TYPE C	LIGHTED ARROW, TYPE C
0	W3-5	REDUCED SPEED LIMIT AHEAD

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 5 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER.
7. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
8. PAVE 3 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
9. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 2 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
11. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
12. COMPLETE ALL PAVEMENT MARKINGS.
13. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND ITS DETAILS WHICH ARE INCLUDED BY REFERENCE. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 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 (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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PROJECT MANAGEMENT SERVICE UNIT

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



STORM WATER FLOODPLAIN

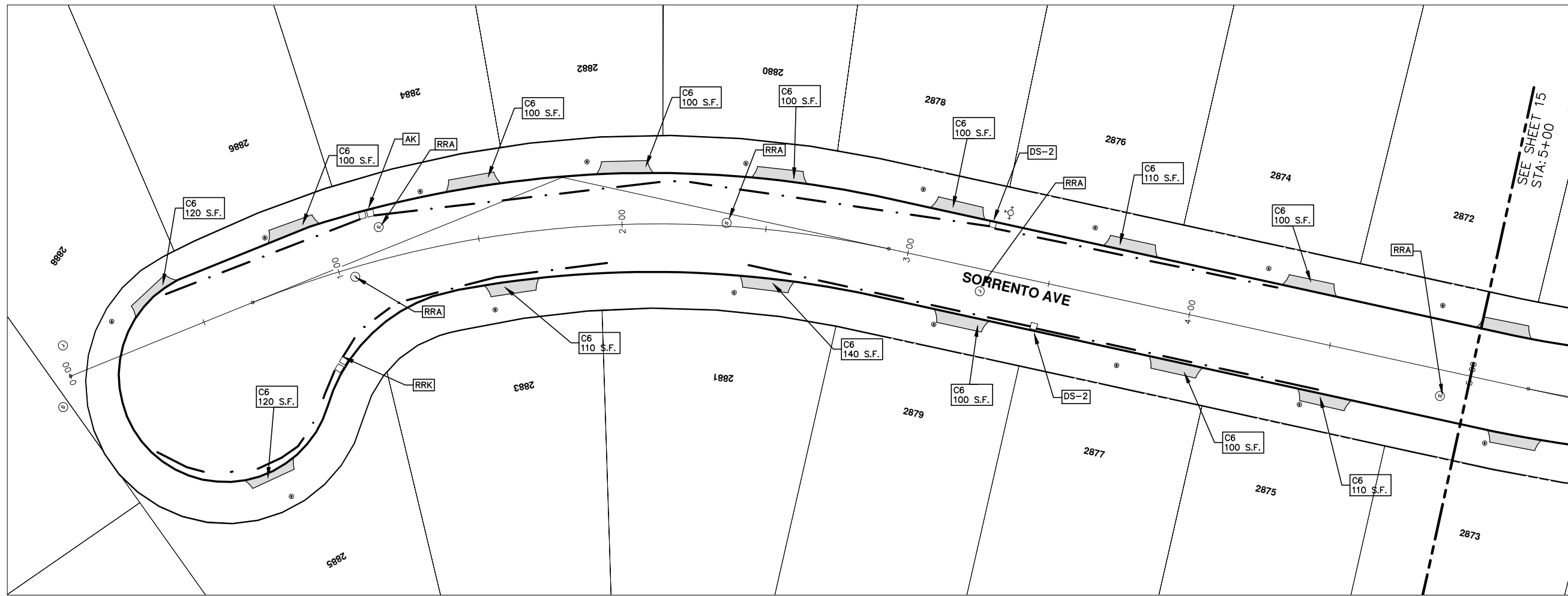
SOIL EROSION

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

PROJECT DESCRIPTION AND LIMITS

DRAWING No. 2013004 - 13
SHEET No. 13 OF 89

S:\Project Management\Design\2013004 Resurfacing\Plan Production\Sorrento\2013Lay\Sorrento.dwg Dwg Created: 7-Sep-12 -- a2 standard bw.stb -- Plot Date: 1-Feb-13



SEE SHEET 15
STA: 5+00

CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT -- ANY THICKNESS
RCW	RAISED CROSSWALK

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
[Hatched Box]	REMOVE AND REPLACE CONC. SIDEWALK
[Dotted Box]	PLACE CONCRETE SIDEWALK
[Double Line]	REMOVE & REPLACE CONC. CURB & GUTTER
[Dashed Line]	CONSTRUCTION LIMITS
[Dash-dot Line]	6" WRAPPED UNDERDRAIN
[Hatched Box]	REMOVE CONCRETE SIDEWALK
[Shaded Box]	SUBGRADE UNDERCUT



Know what's below.
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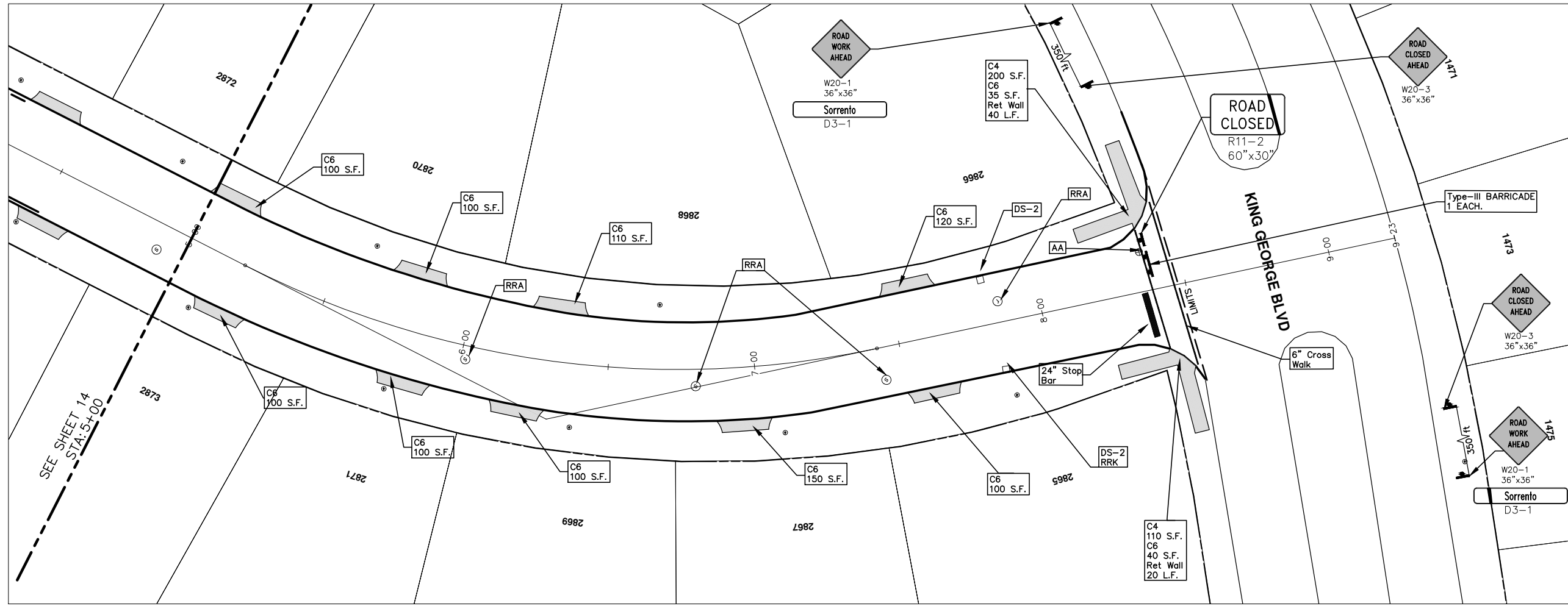
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR MI 48102-2847
734-774-6410
www.a2gov.org



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
SORRENTO
CONSTRUCTION PLAN, PG 1 OF 2

SCALE PLAN: 1" = 20'
DRAWING No. 2013004-14

REV.	DESCRIPTION	DATE	BY	CHECKED
00	OUT FOR BID			



SEE SHEET 14
STA: 5+00

CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP, H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP, OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT -- ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
 SORRENTO
 CONSTRUCTION PLAN, PG 2 OF 2

SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-15
 SHEET No. 15 OF 89

811
 Know what's below.
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CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 P.O. BOX 86102-8647
 ANN ARBOR MI 48107-8647
 www.aagov.org

REV.	DESCRIPTION	DATE	DRAWN BY	CHECKED BY



CITY OF ANN ARBOR PROJECT MANAGEMENT 2013 ANNUAL RESURFACING PROGRAM

PROJECT LOCATION: ALLEY MARY HOOVER

FILE No. 2013004-5

QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
205	Remove HMA Pavement, Alleys	Tons	140
209	Subgrade Undercutting	C.Y.	820
222	Bit. Pvmnt. Base/Leveling, Regular	Tons	140
223	Bit Pvmnt. Wearing, Regular	Tons	100
239	Conc. Curb & Gutter Machine	L.F.	1
249	Flat Inlet Structure Cover	Each	3
252	Reconstruct Structure	Each	3
257	Adj. Curb Inlet Structure Cover	Each	3
264	12" Storm Sewer	L.F.	30
267	6" Wrapped Underdrain	L.F.	300
271	21AA Limestone, C.I.P.	C.Y.	170
282	Plastic Drum, Furn. & Operate	Each	40
283	Type 3 Barr.	Each	3
284	Temp Signs Type B	S.F.	130
285	No Parking Signs	Each	15

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
0	W20-1	"ROAD WORK AHEAD"
0	W20-2	"DETOUR AHEAD"
0	W20-3	"ROAD CLOSED AHEAD"
0	W20-5	"(RIGHT OR LEFT) LANE CLOSED AHEAD"
0	W4-2	LANE DROP SYMBOL, RIGHT OR LEFT
0	W20-1a	WORK SYMBOL
0	W1-4	REVERSE CURVE
0	W1-6	ONE DIRECTION ARROW
0	M4-9 L&R&S	DETOUR (LEFT, RIGHT, OR STRAIGHT ARROW)
0	D3-1	CONVENTIONAL GUIDE
0	M4-8a	"DETOUR ENDS"
0	M4-10	"DETOUR"
0	R6-1 L&R	"ONE WAY" (LEFT OR RIGHT)
0	TYPE III	TYPE III LIGHTED BARRICADE
0	TYPE II	TYPE II LIGHTED BARRICADE (DRUM)
0	R11-2	"ROAD CLOSED"
0	R11-4	"ROAD CLOSED TO THRU TRAFFIC"
0	TYPE A	LIGHTED ARROW, TYPE A
0	TYPE B	LIGHTED ARROW, TYPE B
0	R9-9	SIDEWALK CLOSED
0	R9-11	SIDEWALK CLOSED AHEAD CROSS HERE
0	R5-9	SIDEWALK CLOSED USE OTHER SIDE
0	G20-2	"END ROAD WORK"
0	R5-18b	"INJURE/KILL A WORKER \$7500+15 YEARS"
0	R5-18cLA	"WORK ZONE BEGINS/TRAFFIC FINES DOUBLED"
0	R3-1	NO RIGHT TURN
0	R3-2	NO LEFT TURN
0	SPECIAL	42"X48" SPECIAL SIGN
0	W20-5c	"CENTER LANE CLOSED AHEAD"
0	R2-1	SPEED LIMIT
0	TYPE C	LIGHTED ARROW, TYPE C
0	W3-5	REDUCED SPEED LIMIT AHEAD

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. SAW CUT AND REMOVE 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. THE SIZE OF THE EQUIPMENT IS TO BE APPROVED BY THE ENGINEER AND NO MILLING MACHINES ARE TO BE USED.
7. UNDERCUT 2 INCHES FOR ENTIRE ROADWAY, GRADE, SHAPE, AND RE-COMPACT THE ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER. THE SIZE OF THE EQUIPMENT IS TO BE APPROVED BY THE ENGINEER.
8. PAVE 3 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT. THE SIZE OF THE EQUIPMENT IS TO BE APPROVED BY THE ENGINEER AND NO VIBRATORY ROLLERS ARE TO BE USED.
9. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 2 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT. THE SIZE OF THE EQUIPMENT IS TO BE APPROVED BY THE ENGINEER AND NO VIBRATORY ROLLERS ARE TO BE USED.
11. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
12. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND ITS DETAILS WHICH ARE INCLUDED BY REFERENCE. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 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 (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) 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.



S:\Project Management\Design\2013004 Resurfacing\Plan Production\Alley Mary Hoover\2013004-5-Alley Mary Hoover.dwg Dwg Created: 18-Sep-12 - _a2 standard bw.stb - Plot Date: 1-Feb-13



PROJECT MANAGEMENT SERVICE UNIT

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

PROJECT DESCRIPTION AND LIMITS

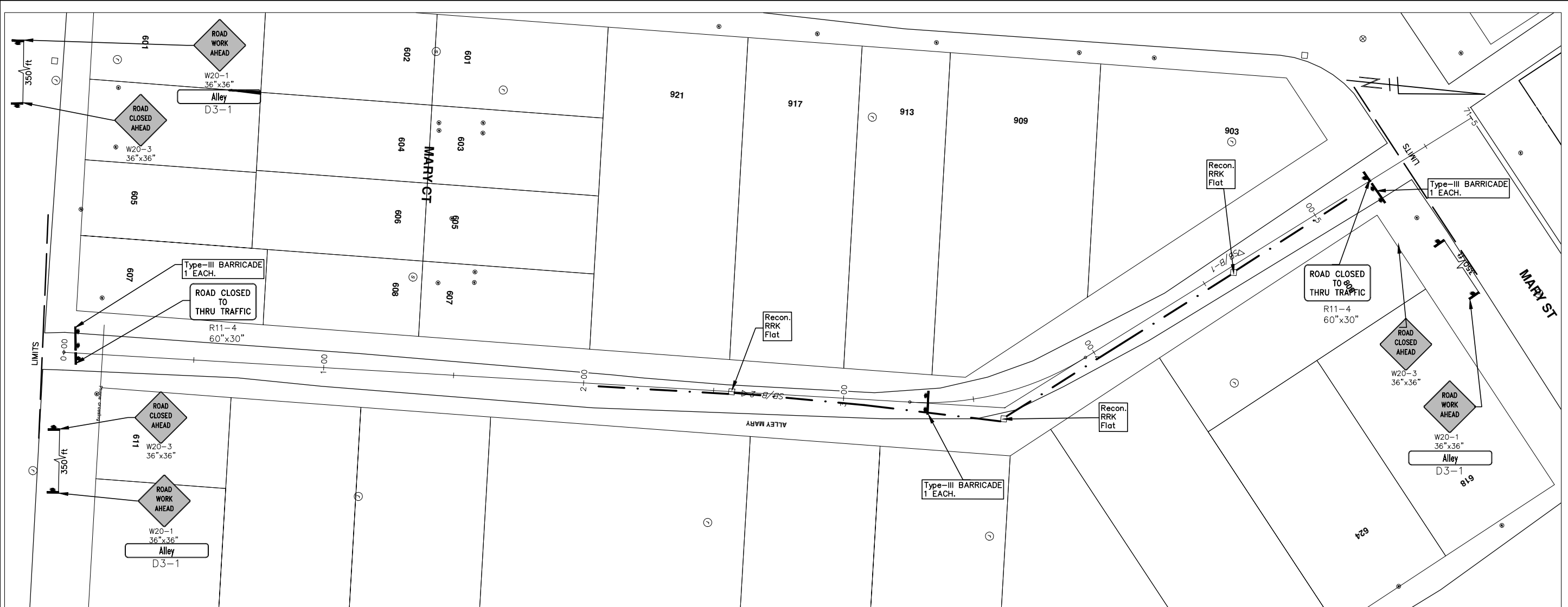
PROJECT DESCRIPTION

DRAWING No. 2013004 - 16

SHEET No.

16 OF 89

S:\Project Management\Design\2013004 Resurfacing\Plan Production\Alley Mary Hoover\2013004 Lay-Alley Mary Hoover.dwg Dwg Created: 18-Sep-12 - _a2 standard bw.stb - Plot Date: 1-Feb-13



CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP, H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP, OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
 ALLEY MARY HOOVER
 CONSTRUCTION PLAN & TRAFFIC CONTROL

SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-17
 SHEET No. 17 OF 89

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CITY OF ANN ARBOR PROJECT MANAGEMENT 2013 ANNUAL RESURFACING PROGRAM

PROJECT LOCATION: ALLEY BENJAMIN

FILE No. 2013004-6

QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
205	Remove HMA Pavement, Alleys	Tons	120
209	Subgrade Undercutting	C.Y.	648
221	Bit. Pvmnt. Finish Wedging	Tons	5
222	Bit. Pvmnt. Base/Leveling, Regular	Tons	120
223	Bit Pvmnt. Wearing, Regular	Tons	80
249	Flat Inlet Structure Cover	Each	3
252	Reconstruct Structure	Each	3
254	Lower Structures	Each	3
256	Adj. Structure Covers	Each	3
264	12" Storm Sewer	L.F.	30
267	6" Wrapped Underdrain	L.F.	300
271	21AA Limestone, C.I.P.	C.Y.	140
282	Plastic Drum, Furn. & Operate	Each	30
283	Type 3 Barr.	Each	2
284	Temp Signs Type B	S.F.	70
285	No Parking Signs	Each	10

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
0	W20-1	"ROAD WORK AHEAD"
0	W20-2	"DETOUR AHEAD"
0	W20-3	"ROAD CLOSED AHEAD"
0	W20-5	"(RIGHT OR LEFT) LANE CLOSED AHEAD"
0	W4-2	LANE DROP SYMBOL, RIGHT OR LEFT
0	W20-1a	WORK SYMBOL
0	W1-4	REVERSE CURVE
0	W1-6	ONE DIRECTION ARROW
0	M4-9 L&R&S	DETOUR (LEFT, RIGHT, OR STRAIGHT ARROW)
0	D3-1	CONVENTIONAL GUIDE
0	M4-8a	"DETOUR ENDS"
0	M4-10	"DETOUR"
0	R6-1 L&R	"ONE WAY" (LEFT OR RIGHT)
0	TYPE III	TYPE III LIGHTED BARRICADE
0	TYPE II	TYPE II LIGHTED BARRICADE (DRUM)
0	R11-2	"ROAD CLOSED"
0	R11-4	"ROAD CLOSED TO THRU TRAFFIC"
0	TYPE A	LIGHTED ARROW, TYPE A
0	TYPE B	LIGHTED ARROW, TYPE B
0	R9-9	SIDEWALK CLOSED
0	R9-11	SIDEWALK CLOSED AHEAD CROSS HERE
0	R5-9	SIDEWALK CLOSED USE OTHER SIDE
0	G20-2	"END ROAD WORK"
0	R5-18b	"INJURE/KILL A WORKER \$7500+15 YEARS"
0	R5-18cLA	"WORK ZONE BEGINS/TRAFFIC FINES DOUBLED"
0	R3-1	NO RIGHT TURN
0	R3-2	NO LEFT TURN
0	SPECIAL	42"X48" SPECIAL SIGN
0	W20-5c	"CENTER LANE CLOSED AHEAD"
0	R2-1	SPEED LIMIT
0	TYPE C	LIGHTED ARROW, TYPE C
0	W3-5	REDUCED SPEED LIMIT AHEAD

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. SAW CUT AND REMOVE 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. THE SIZE OF THE EQUIPMENT IS TO BE APPROVED BY THE ENGINEER AND NO MILLING MACHINES ARE TO BE USED.
7. UNDERCUT 2 INCHES FOR ENTIRE ROADWAY, GRADE, SHAPE, AND RE-COMPACT THE ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER. THE SIZE OF THE EQUIPMENT IS TO BE APPROVED BY THE ENGINEER.
8. PAVE 3 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT. THE SIZE OF THE EQUIPMENT IS TO BE APPROVED BY THE ENGINEER AND NO VIBRATORY ROLLERS ARE TO BE USED.
9. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 2 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT. THE SIZE OF THE EQUIPMENT IS TO BE APPROVED BY THE ENGINEER AND NO VIBRATORY ROLLERS ARE TO BE USED.
11. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
12. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND ITS DETAILS WHICH ARE INCLUDED BY REFERENCE. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.

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THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) 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.

S:\Project Management\Design\2013004 - Resurfacing\Plan Production\Alley Benjamin\2013004-Loy-Alley Benjamin.dwg Dwg Created: 4-Jan-13 - _g2 standard bw.stb - Plot Date: 1-Feb-13



PROJECT MANAGEMENT SERVICE UNIT

CITY OF ANN ARBOR PUBLIC SERVICE
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

PROJECT DESCRIPTION AND LIMITS

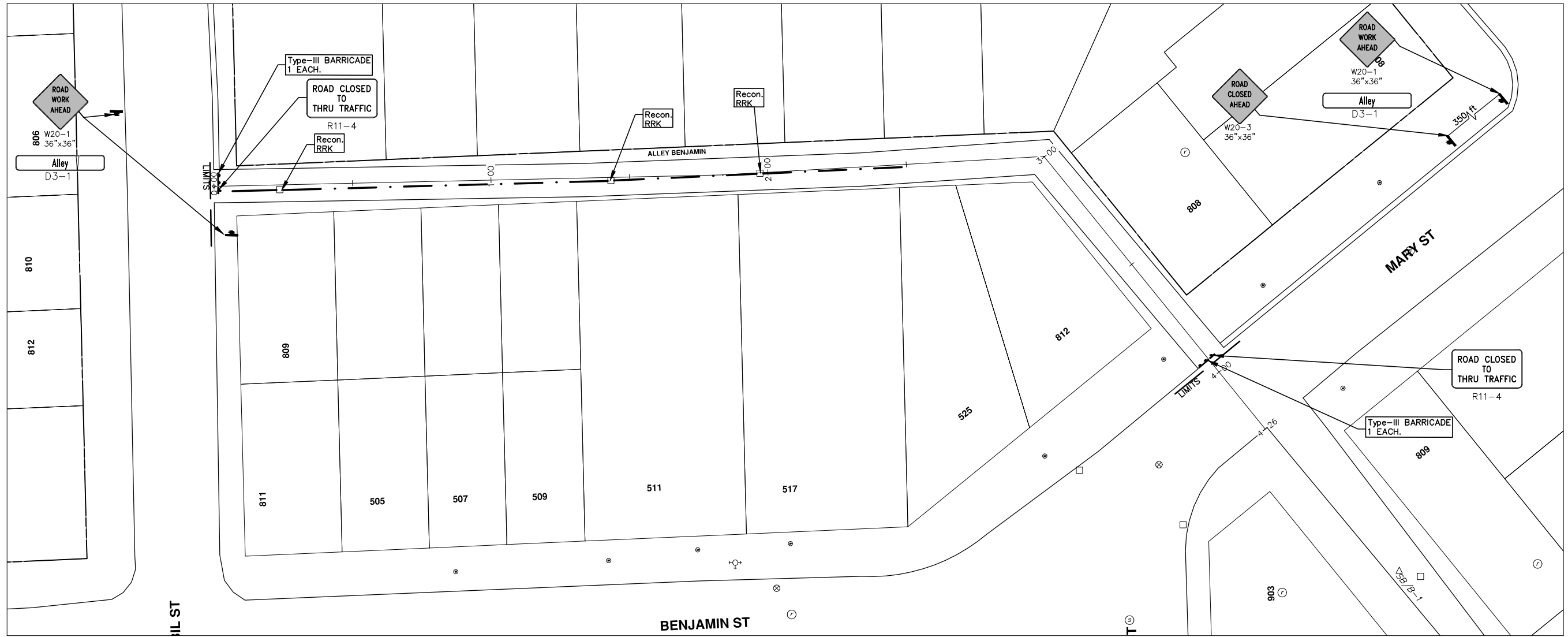
PROJECT DESCRIPTION

DRAWING No.
2013004 - 18

SHEET No.

18 OF 89

S:\Project Management\Design\2013004 Resurfacing\Plan Production\Alley Benjamin\2013004Loy-Alley Benjamin.dwg Dwg Created: 4--Jan-13 --_a2 standard bw.stb -- Plot Date: 1--Feb-13



CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT -- ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
 ALLEY BENJAMIN
 CONSTRUCTION PLAN & TRAFFIC CONTROL

SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-19

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CITY OF ANN ARBOR
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SHEET No. 19 OF 89



CITY OF ANN ARBOR PROJECT MANAGEMENT 2013 ANNUAL RESURFACING PROGRAM

PROJECT LOCATION: FRANKLIN BOULEVARD

FILE No. 2013004-7

QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
207	Cold Mill Pavement	Tons	1250
208	Curb Reveal	Tons	11
209	Subgrade Undercutting	C.Y.	440
217	Remove & Replace Brick Pavers	S.F.	32
221	Bit. Pvmnt. Finish Wedging	Tons	8
222	Bit. Pvmnt. Base/Leveling, Regular	Tons	750
223	Bit Pvmnt. Wearing, Regular	Tons	500
230	Remove Curb & Gutter	L.F.	1250
232	Remove Conc. Sidewalk/Drive	S.F.	600
237	Conc. Curb & Gutter	L.F.	1250
239	Conc. Curb & Gutter Machine	L.F.	2
240	4" Sidewalk Or Ramp	S.F.	170
241	6" Sidewalk & Drives	S.F.	420
245	Detectable Warning, Cast in Place	S.F.	40
250	2' Dia. Structure	Each	5
254	Lower Structures	Each	14
255	Lwr. Mon. + GV. Box	Each	5
256	Adj. Structure Covers	Each	14
257	Adj. Curb Inlet Structure Cover	Each	7
258	Adj. Mon. & GV. Box	Each	5
259	Manhole Flange & Cover (A)	Each	14
264	12" Storm Sewer	L.F.	50
267	6" Wrapped Underdrain	L.F.	200
271	21AA Limestone, C.I.P.	C.Y.	440
282	Plastic Drum, Furn. & Operate	Each	60
283	Type 3 Barr.	Each	7
284	Temp Signs Type B	S.F.	300
285	No Parking Signs	Each	40
596	6" White Thermo.	L.F.	600
597	24" White Thermo.	L.F.	142

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
0	W20-1	"ROAD WORK AHEAD"
0	W20-2	"DETOUR AHEAD"
0	W20-3	"ROAD CLOSED AHEAD"
0	W20-5	"(RIGHT OR LEFT) LANE CLOSED AHEAD"
0	W4-2	LANE DROP SYMBOL, RIGHT OR LEFT
0	W20-1a	WORK SYMBOL
0	W1-4	REVERSE CURVE
0	W1-6	ONE DIRECTION ARROW
0	M4-9 L&R&S	DETOUR (LEFT, RIGHT, OR STRAIGHT ARROW)
0	D3-1	CONVENTIONAL GUIDE
0	M4-8a	"DETOUR ENDS"
0	M4-10	"DETOUR"
0	R6-1 L&R	"ONE WAY" (LEFT OR RIGHT)
0	TYPE III	TYPE III LIGHTED BARRICADE
0	TYPE II	TYPE II LIGHTED BARRICADE (DRUM)
0	R11-2	"ROAD CLOSED"
0	R11-4	"ROAD CLOSED TO THRU TRAFFIC"
0	TYPE A	LIGHTED ARROW, TYPE A
0	TYPE B	LIGHTED ARROW, TYPE B
0	R9-9	SIDEWALK CLOSED
0	R9-11	SIDEWALK CLOSED AHEAD CROSS HERE
0	R5-9	SIDEWALK CLOSED USE OTHER SIDE
0	G20-2	"END ROAD WORK"
0	R5-18b	"INJURE/KILL A WORKER \$7500+15 YEARS"
0	R5-18cLA	"WORK ZONE BEGINS/TRAFFIC FINES DOUBLED"
0	R3-1	NO RIGHT TURN
0	R3-2	NO LEFT TURN
0	SPECIAL	42"X48" SPECIAL SIGN
0	W20-5c	"CENTER LANE CLOSED AHEAD"
0	R2-1	SPEED LIMIT
0	TYPE C	LIGHTED ARROW, TYPE C
0	W3-5	REDUCED SPEED LIMIT AHEAD

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. COMPLETE CURB REVEAL FROM SOUTH SEVENTH ST TO HUTCHINS AVE. CURB TO BE REPLACED WILL BE ASSESSED BY THE ENGINEER AFTER THE CURB REVEAL.
4. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
5. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
6. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
7. MILL 5 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER.
8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. PAVE 3 INCHES OF THE BITUMINOUS MIX 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 2 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. COMPLETE ALL PAVEMENT MARKINGS.
14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND ITS DETAILS WHICH ARE INCLUDED BY REFERENCE. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.

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THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) 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.



STORM WATER FLOODPLAIN

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ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

PROJECT DESCRIPTION AND LIMITS

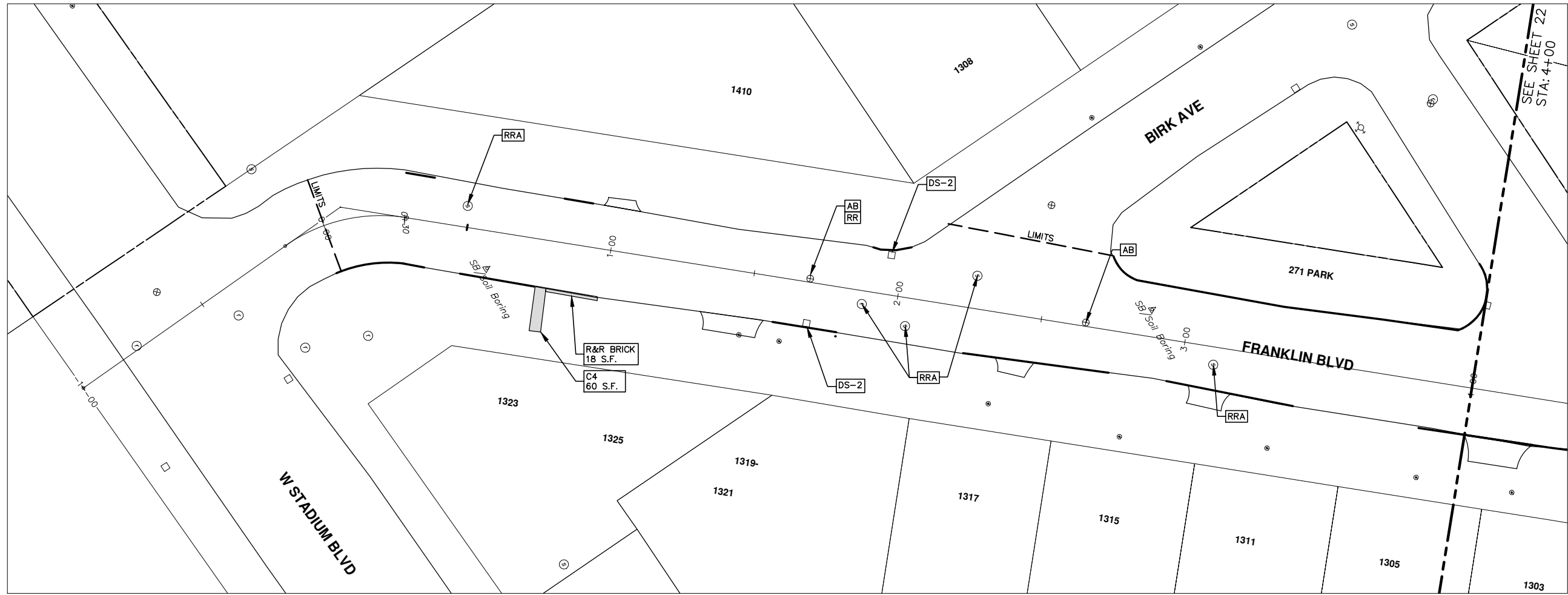
PROJECT DESCRIPTION

DRAWING No. 2013004 - 20

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20 OF 89

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SEE SHEET 22
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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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



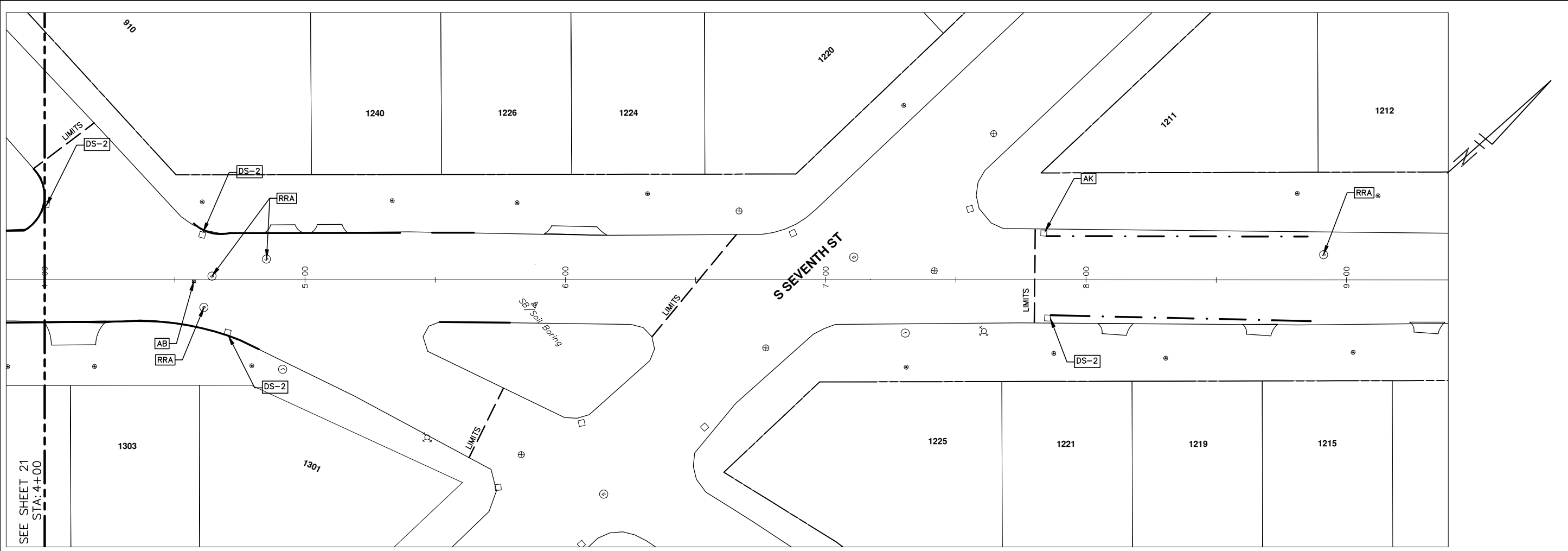
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2013 ANNUAL RESURFACING PROGRAM
FRANKLIN BOULEVARD
CONSTRUCTION PLAN, PG 1 OF 3
SCALE PLAN: 1" = 20'
DRAWING No. 2013004-21

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SEE SHEET 21
STA: 4+00

CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 FRANKLIN BOULEVARD
 CONSTRUCTION PLAN, PG 2 OF 3

SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-22

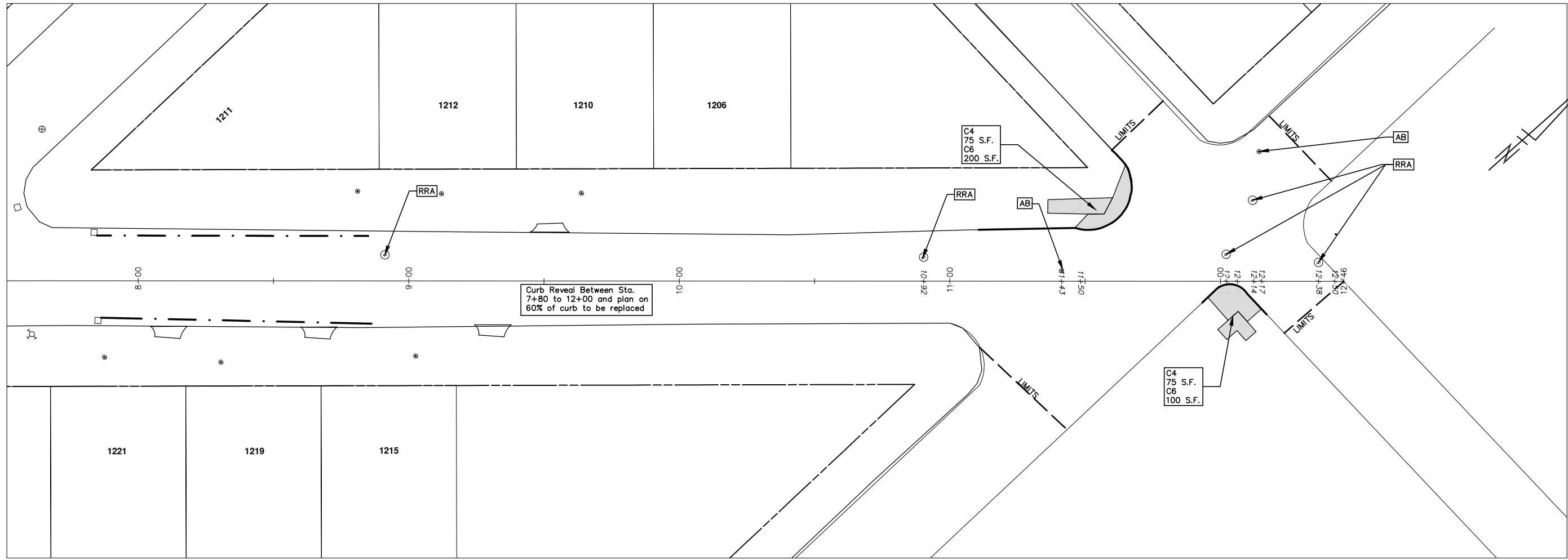
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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 FRANKLIN BOULEVARD
 CONSTRUCTION PLAN, PG 3 OF 3

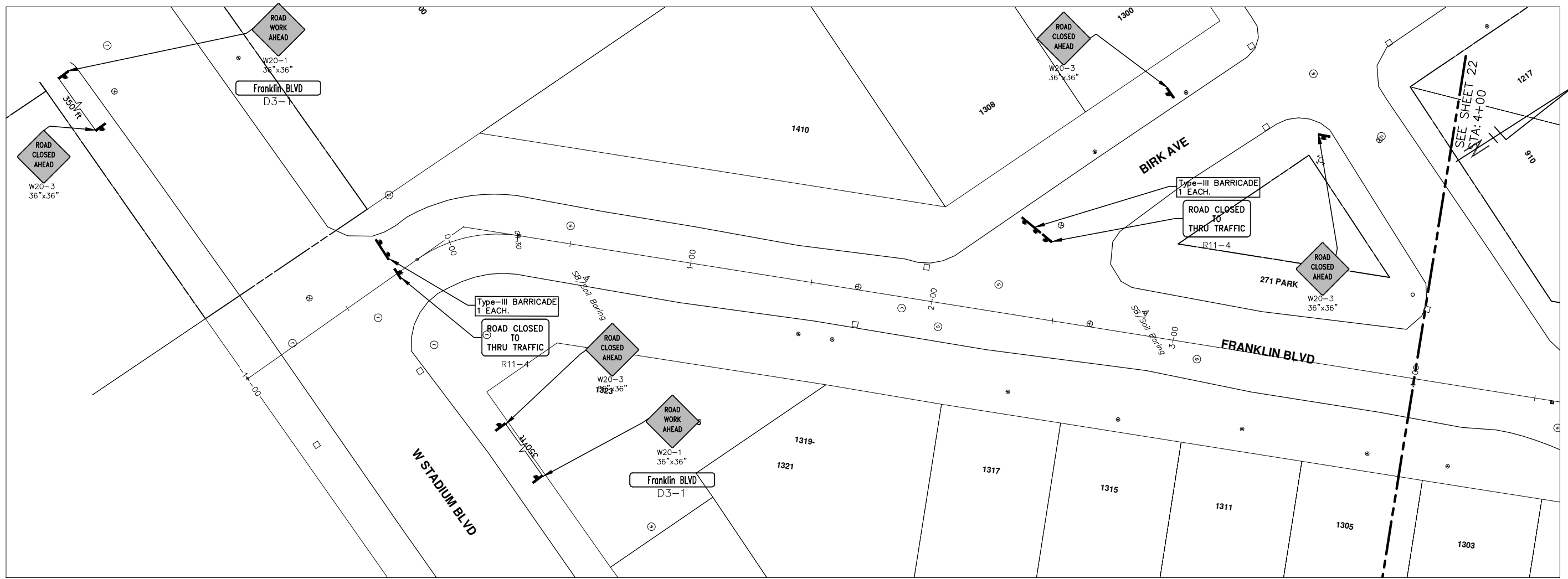
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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP, H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP, OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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
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⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
□	MONUMENT BOX
[Pattern]	REMOVE AND REPLACE CONC. SIDEWALK
[Pattern]	PLACE CONCRETE SIDEWALK
[Pattern]	REMOVE & REPLACE CONC. CURB & GUTTER
[Pattern]	CONSTRUCTION LIMITS
[Pattern]	6" WRAPPED UNDERDRAIN
[Pattern]	REMOVE CONCRETE SIDEWALK
[Pattern]	SUBGRADE UNDERCUT



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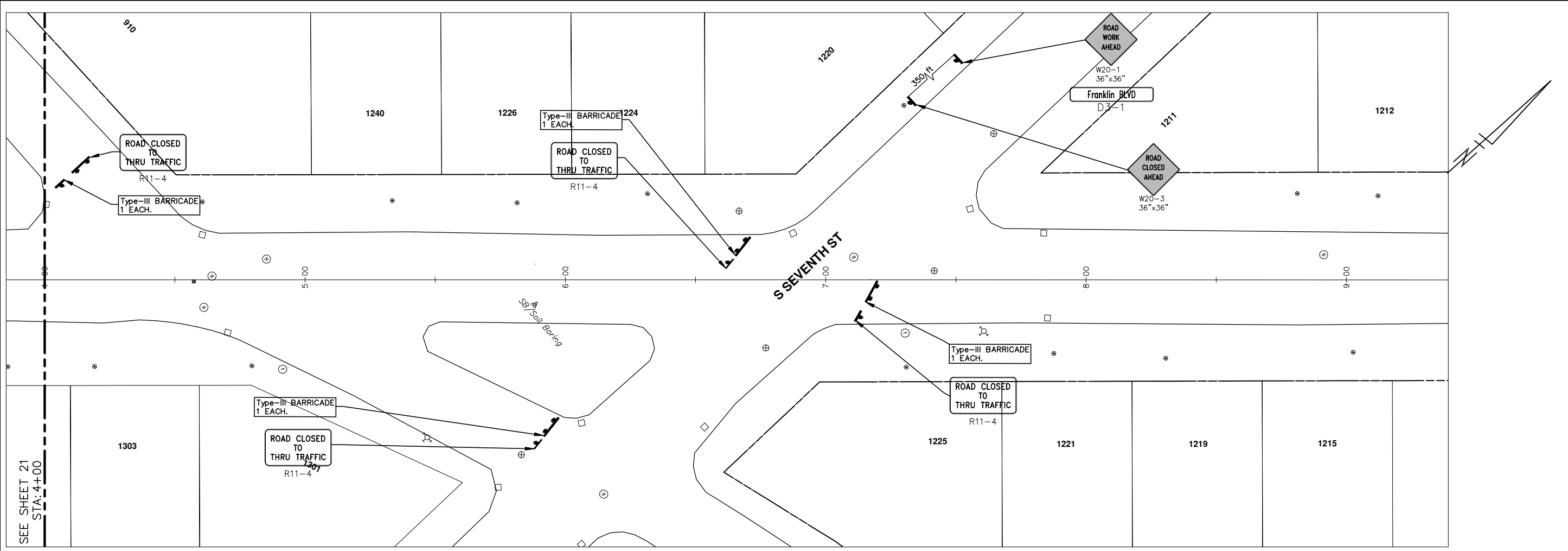
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2013 ANNUAL RESURFACING PROGRAM
FRANKLIN BOULEVARD
TRAFFIC CONTROL, PG 1 OF 3

SHEET No. 24 OF 89
DRAWING No. 2013004-24
SCALE PLAN: Custom

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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP, H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP, OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

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 FRANKLIN BOULEVARD
 TRAFFIC CONTROL, PG 2 OF 3

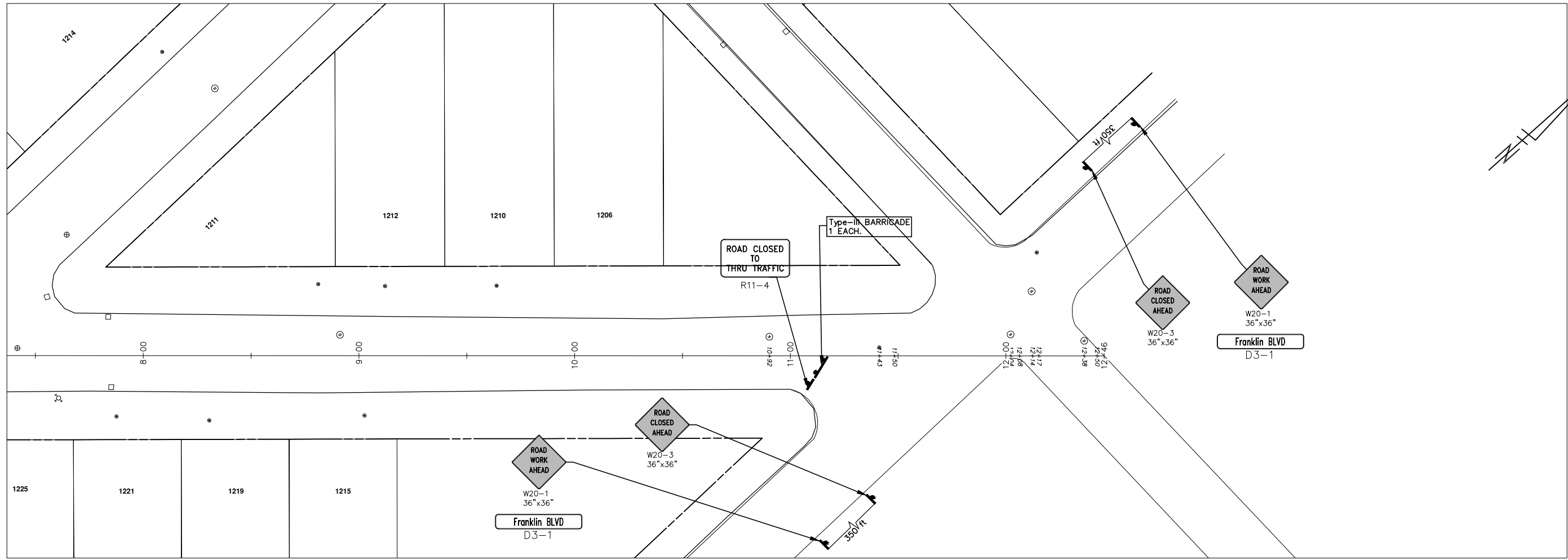
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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT -- ANY THICKNESS
RCW	RAISED CROSSWALK

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
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⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊕	MONUMENT BOX
[Pattern]	REMOVE AND REPLACE CONC. SIDEWALK
[Pattern]	PLACE CONCRETE SIDEWALK
[Pattern]	REMOVE & REPLACE CONC. CURB & GUTTER
[Pattern]	CONSTRUCTION LIMITS
[Pattern]	6" WRAPPED UNDERDRAIN
[Pattern]	REMOVE CONCRETE SIDEWALK
[Pattern]	SUBGRADE UNDERCUT



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CITY OF ANN ARBOR PROJECT MANAGEMENT 2013 ANNUAL RESURFACING PROGRAM

PROJECT LOCATION: HISCOCK

FILE No. 2013004-8

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QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
207	Cold Mill Pavement	Tons	2060
208	Curb Reveal	Tons	36
209	Subgrade Undercutting	C.Y.	810
217	Remove & Replace Brick Pavers	S.F.	32
221	Bit. Pvmnt. Finish Wedging	Tons	8
222	Bit. Pvmnt. Base/Leveling, Regular	Tons	1240
223	Bit Pvmnt. Wearing, Regular	Tons	830
230	Remove Curb & Gutter	L.F.	3500
232	Remove Conc. Sidewalk/Drive	S.F.	6170
239	Conc. Curb & Gutter Machine	L.F.	3501
240	4" Sidewalk Or Ramp	S.F.	3080
241	6" Sidewalk & Drives	S.F.	3090
245	Detectable Warning, Cast in Place	S.F.	340
246	Integral Sidewalk Ret. Wall (< 6")	S.F.	20
247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	20
250	2' Dia. Structure	Each	12
254	Lower Structures	Each	17
255	Lwr. Mon. + GV. Box	Each	14
256	Adj. Structure Covers	Each	17
257	Adj. Curb Inlet Structure Cover	Each	12
258	Adj. Mon. & GV. Box	Each	14
259	Manhole Flange & Cover (A)	Each	13
260	Inlet Structure Cover (K)	Each	3
264	12" Storm Sewer	L.F.	120
267	6" Wrapped Underdrain	L.F.	200
271	21AA Limestone, C.I.P.	C.Y.	810
280	Raised Crosswalk	S.Y.	1
282	Plastic Drum, Furn. & Operate	Each	130
283	Type 3 Barr.	Each	9
284	Temp Signs Type B	S.F.	470
285	No Parking Signs	Each	59
596	6" White Thermo.	L.F.	1200
597	24" White Thermo.	L.F.	400

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
0	W20-1	"ROAD WORK AHEAD"
0	W20-2	"DETOUR AHEAD"
0	W20-3	"ROAD CLOSED AHEAD"
0	W20-5	"(RIGHT OR LEFT) LANE CLOSED AHEAD"
0	W4-2	LANE DROP SYMBOL, RIGHT OR LEFT
0	W20-1a	WORK SYMBOL
0	W1-4	REVERSE CURVE
0	W1-6	ONE DIRECTION ARROW
0	M4-9 L&R&S	DETOUR (LEFT, RIGHT, OR STRAIGHT ARROW)
0	D3-1	CONVENTIONAL GUIDE
0	M4-8a	"DETOUR ENDS"
0	M4-10	"DETOUR"
0	R6-1 L&R	"ONE WAY" (LEFT OR RIGHT)
0	TYPE III	TYPE III LIGHTED BARRICADE
0	TYPE II	TYPE II LIGHTED BARRICADE (DRUM)
0	R11-2	"ROAD CLOSED"
0	R11-4	"ROAD CLOSED TO THRU TRAFFIC"
0	TYPE A	LIGHTED ARROW, TYPE A
0	TYPE B	LIGHTED ARROW, TYPE B
0	R9-9	SIDEWALK CLOSED
0	R9-11	SIDEWALK CLOSED AHEAD CROSS HERE
0	R5-9	SIDEWALK CLOSED USE OTHER SIDE
0	G20-2	"END ROAD WORK"
0	R5-18b	"INJURE/KILL A WORKER \$7500+15 YEARS"
0	R5-18cLA	"WORK ZONE BEGINS/TRAFFIC FINES DOUBLED"
0	R3-1	NO RIGHT TURN
0	R3-2	NO LEFT TURN
0	SPECIAL	42"X48" SPECIAL SIGN
0	W20-5c	"CENTER LANE CLOSED AHEAD"
0	R2-1	SPEED LIMIT
0	TYPE C	LIGHTED ARROW, TYPE C
0	W3-5	REDUCED SPEED LIMIT AHEAD

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. COMPLETE CURB REVEAL FROM BROOKS TO SPRING ST. CURB TO BE REPLACED WILL BE ASSESSED BY THE ENGINEER AFTER THE CURB REVEAL.
4. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
5. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
6. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
7. MILL 5 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER.
8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. PAVE 3 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT. DEPTH TO BE DETERMINED BY THE ENGINEER IF DIFFERENT.
10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
11. PAVE 2 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT. DEPTH TO BE DETERMINED BY THE ENGINEER IF DIFFERENT.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. COMPLETE ALL PAVEMENT MARKINGS.
14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND ITS DETAILS WHICH ARE INCLUDED BY REFERENCE. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 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 (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) 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.



PROJECT MANAGEMENT SERVICE UNIT

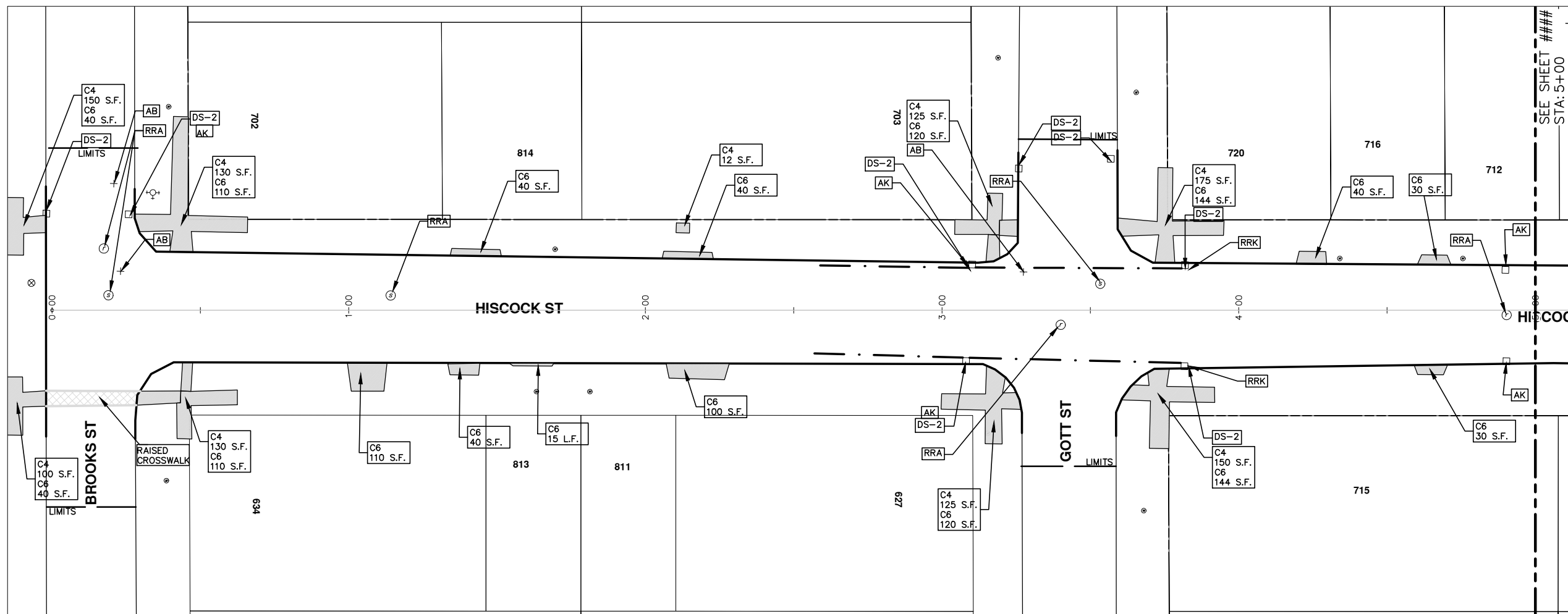
CITY OF ANN ARBOR PUBLIC SERVICE
301 EAST HURON STREET, P.O. BOX 8647
ANN ARBOR, MICHIGAN 48107-8647
734-794-6410 www.a2gov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

PROJECT DESCRIPTION AND LIMITS

DRAWING No. 2013004 - 27
SHEET No. 27 OF 89

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STA: 5+00

CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP, H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP.
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP, OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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
[Hatched Box]	REMOVE AND REPLACE CONC. SIDEWALK
[Dotted Box]	PLACE CONCRETE SIDEWALK
[Double Line]	REMOVE & REPLACE CONC. CURB & GUTTER
[Dashed Line]	CONSTRUCTION LIMITS
[Dash-Dot Line]	6" WRAPPED UNDERDRAIN
[Hatched Box]	REMOVE CONCRETE SIDEWALK
[Solid Grey Box]	SUBGRADE UNDERCUT

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 HISCOCK
 CONSTRUCTION PLAN, PG 1 OF 4

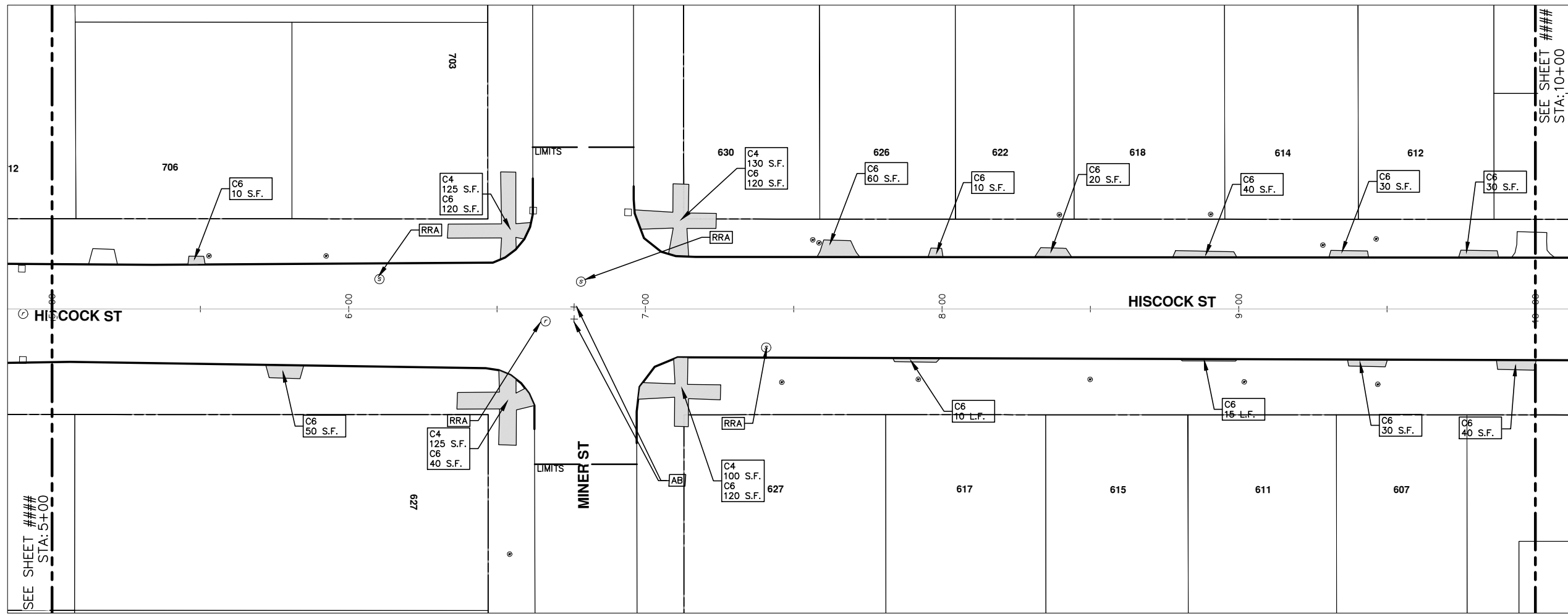
SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-28

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 PUBLIC SERVICES
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STA: 5+00

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STA: 10+00

CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP, H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP, OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 HISCOCK
 CONSTRUCTION PLAN, PG 2 OF 4

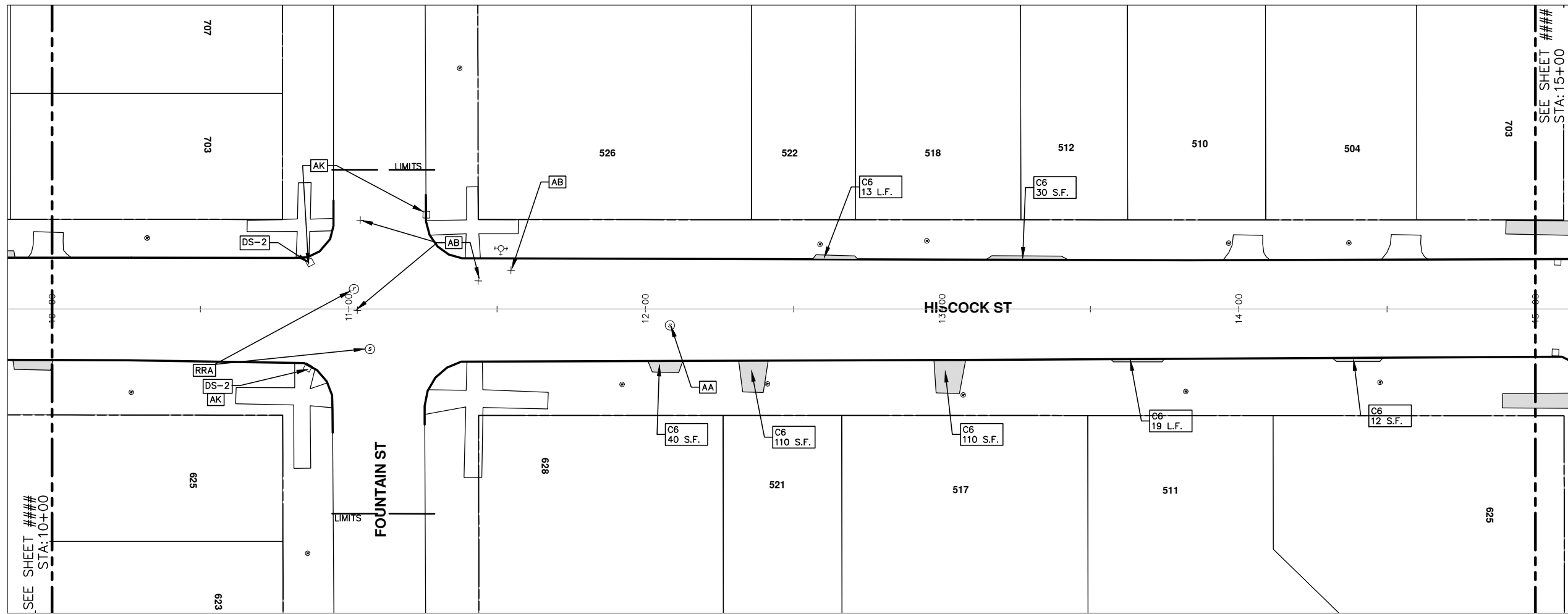
SCALE PLAN: 1" = 20'
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 ANN ARBOR, MI 48102-2647
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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP, H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP, OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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
⓪	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊙	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
	REMOVE AND REPLACE CONC. SIDEWALK
	PLACE CONCRETE SIDEWALK
	REMOVE & REPLACE CONC. CURB & GUTTER
	CONSTRUCTION LIMITS
	6" WRAPPED UNDERDRAIN
	REMOVE CONCRETE SIDEWALK
	SUBGRADE UNDERCUT

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
HISCOCK

SCALE PLAN: 1" = 20'
DRAWING No. 2013004-30

SHEET No.

30 OF 89

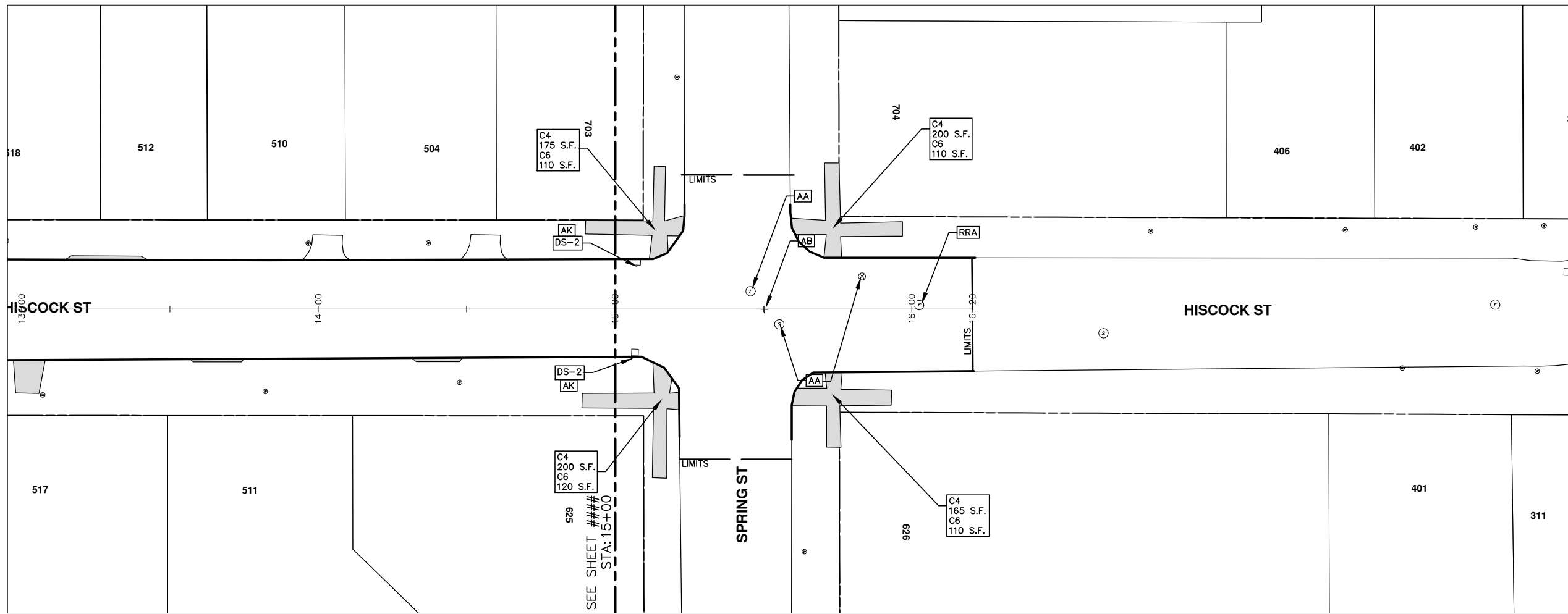
CITY OF ANN ARBOR
PUBLIC SERVICE
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ANN ARBOR MI 48102-2647
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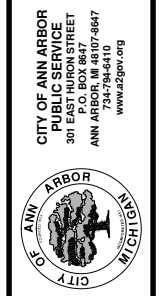
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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP, H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP, OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

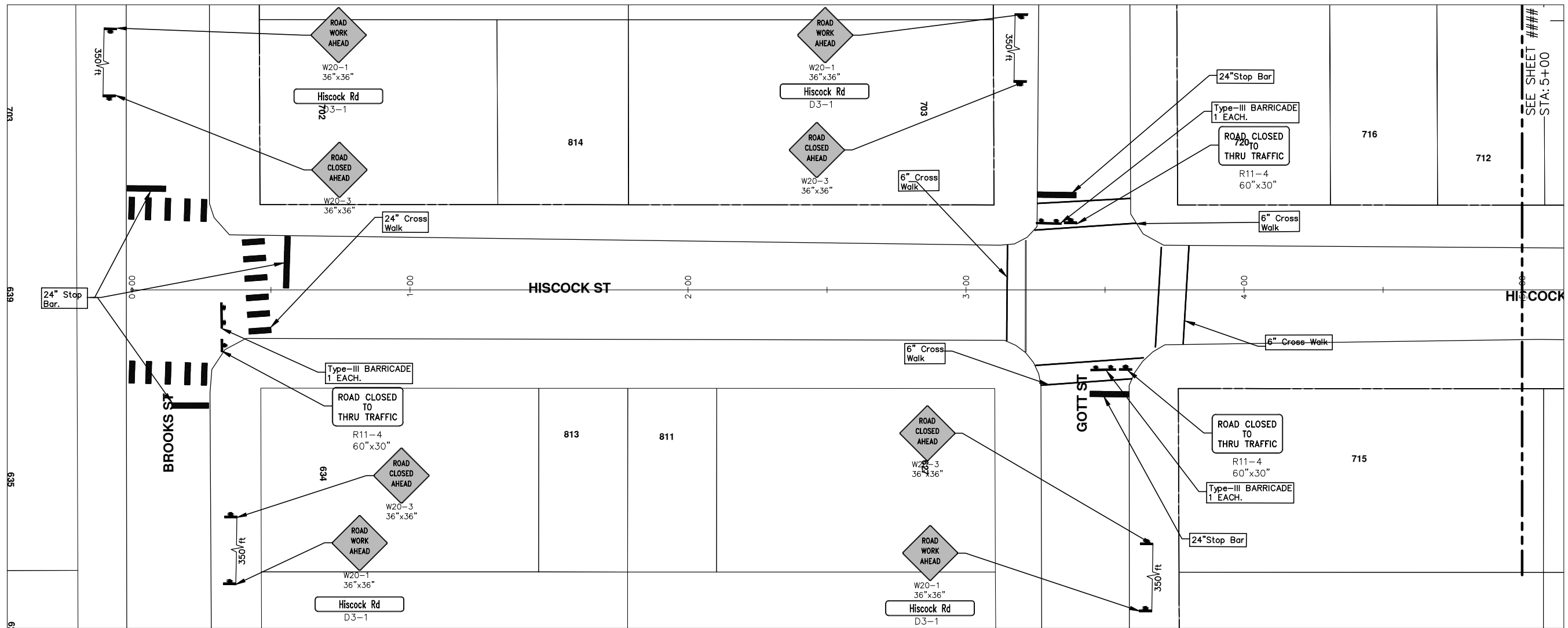
LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊕	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕*	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊕	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT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



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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP, H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP, OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT -- ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 HISCOCK
 TRAFFIC CONTROL, PG 1 OF 4

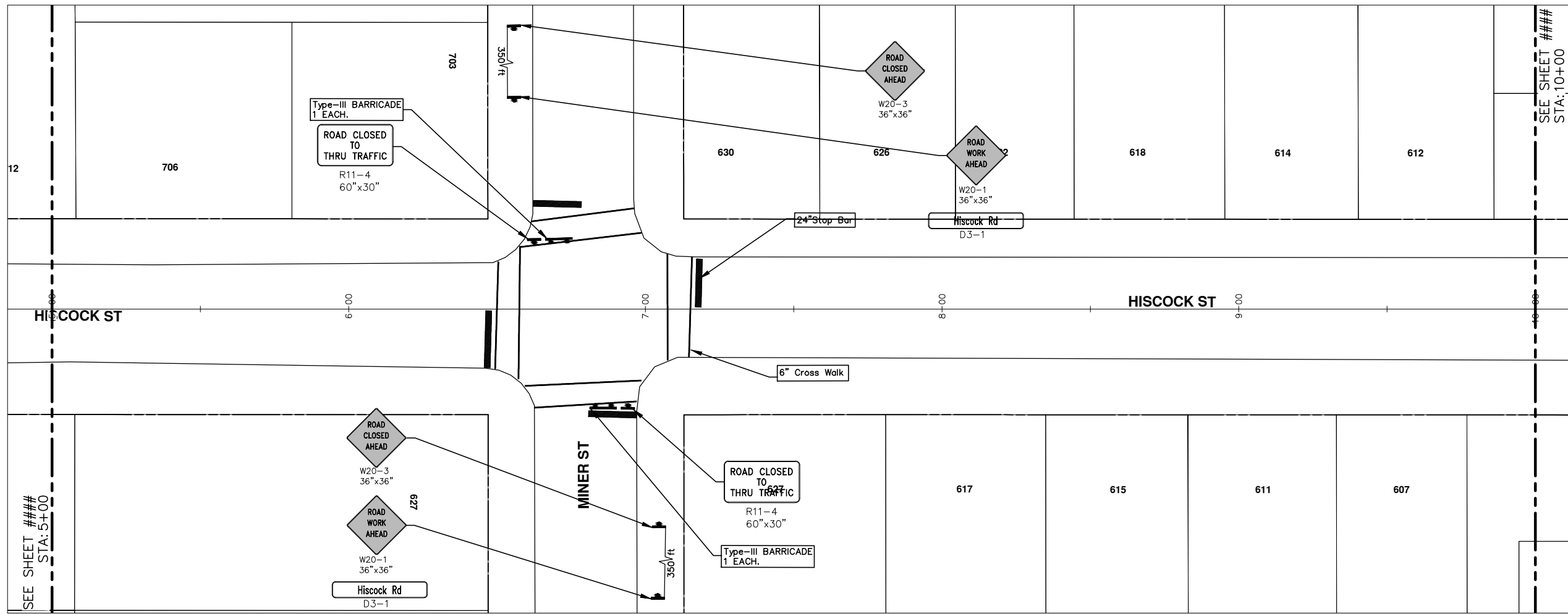
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NO.	DESCRIPTION	DATE	BY	REVISION

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 PUBLIC SERVICE
 301 EAST HURON STREET
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SHEET No. **32 OF 89**
 DRAWING No. **2013004-32**

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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

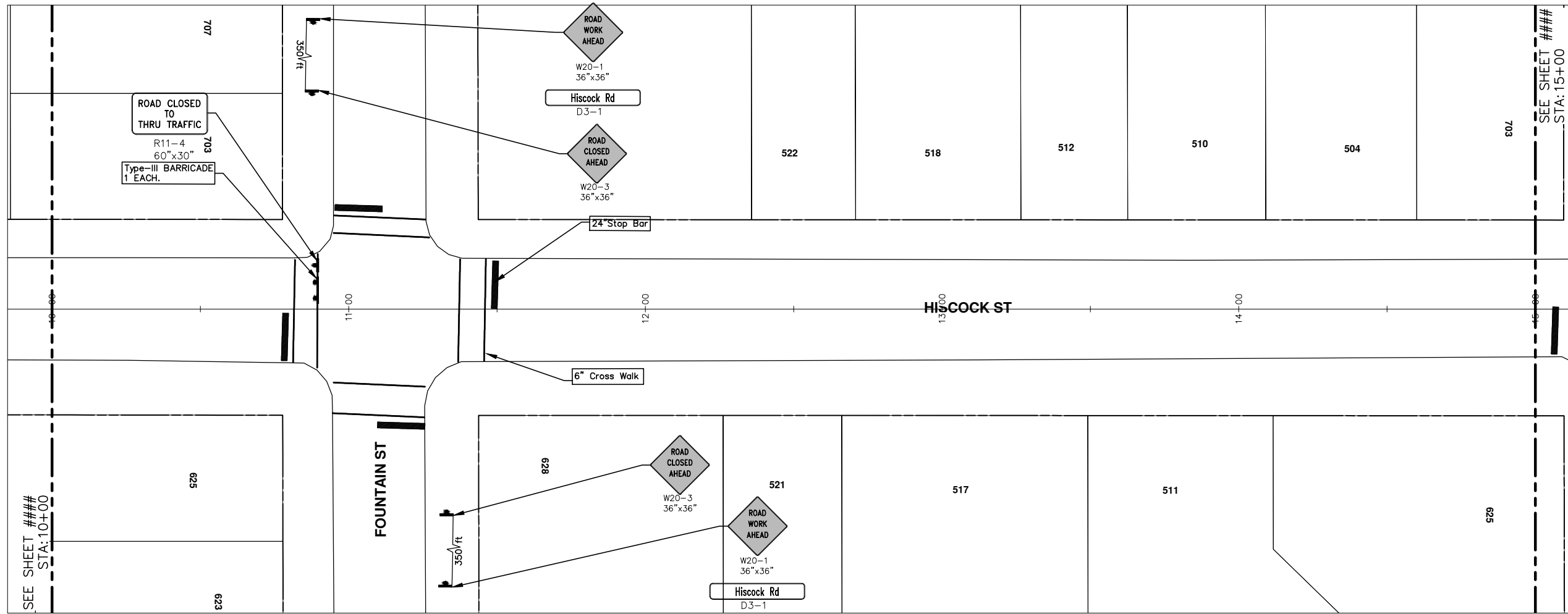
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 2013 ANNUAL RESURFACING PROGRAM
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SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-33
 SHEET No. 33 OF 89



CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4\"/>

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 HISCOCK
 TRAFFIC CONTROL, PG 3 OF 4

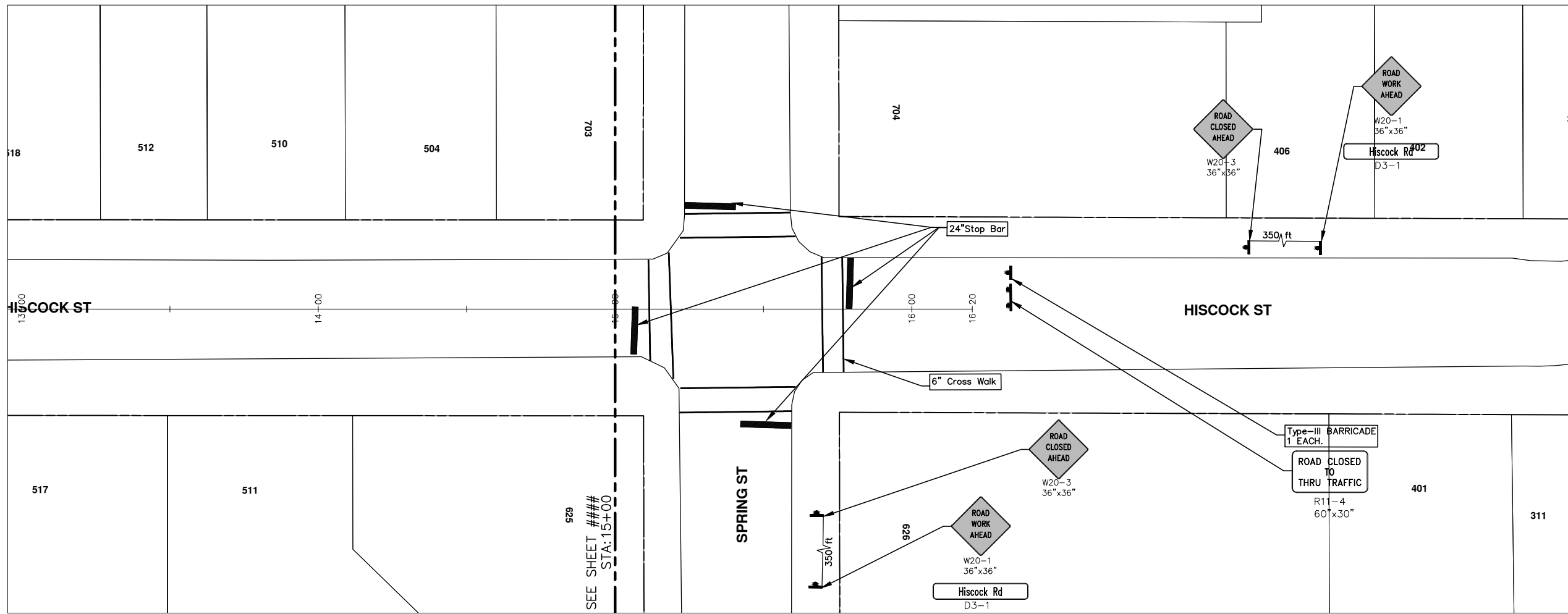
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 PUBLIC SERVICES
 301 EAST HURON STREET
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SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-34
 SHEET No. 34 OF 89

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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4\"/>

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\"/>

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 HISCOCK
 TRAFFIC CONTROL, PG 4 OF 4

SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-35

811
 Know what's below.
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CITY OF ANN ARBOR
 PUBLIC SERVICE
 301 EAST HURON STREET
 P.O. BOX 86102-8647
 ANN ARBOR MI 48107-8647
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REV.	DESCRIPTION	DATE	BY	CHECKED



CITY OF ANN ARBOR PROJECT MANAGEMENT 2013 ANNUAL RESURFACING PROGRAM

PROJECT LOCATION: DEPOT STREET

FILE No. 2013004-9

QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
207	Cold Mill Pavement	Tons	1120
209	Subgrade Undercutting	C.Y.	650
217	Remove & Replace Brick Pavers	S.F.	50
218	Stress Absorbing Membrane Interlayer	S.Y.	6581
227	Bit. Pvmnt. Base or Leveling, 4E3	Tons	1030
230	Remove Curb & Gutter	L.F.	1850
232	Remove Conc. Sidewalk/Drive	S.F.	1124
237	Conc. Curb & Gutter	L.F.	880
239	Conc. Curb & Gutter Machine	L.F.	801
240	4" Sidewalk Or Ramp	S.F.	484
241	6" Sidewalk & Drives	S.F.	520
242	6" S/W, Drive App. H.E.	S.F.	120
245	Detectable Warning, Cast in Place	S.F.	40
252	Reconstruct Structure	Each	2
254	Lower Structures	Each	15
255	Lwr. Mon. + GV. Box	Each	15
256	Adj. Structure Covers	Each	15
257	Adj. Curb Inlet Structure Cover	Each	11
258	Adj. Mon. & GV. Box	Each	15
259	Manhole Flange & Cover (A)	Each	10
260	Inlet Structure Cover (K)	Each	1
264	12" Storm Sewer	L.F.	20
267	6" Wrapped Underdrain	L.F.	200
271	21AA Limestone, C.I.P.	C.Y.	650
281	Arrow Panel, Furn. & Operate	Each	1
282	Plastic Drum, Furn. & Operate	Each	70
283	Type 3 Barr.	Each	4
284	Temp Signs Type B	S.F.	310
285	No Parking Signs	Each	40
286	Message Board, Furn.	Each	3
287	Message Board, Operate	Each	3
580	Remove Pavement Marking	L.F.	2100
587	Waterbourne Paint, Pvmnt. Mkg., 4" White or Yellow	L.F.	2600
594	4" White Thermo.	L.F.	120
595	4" Yellow Thermo.	L.F.	2400
596	6" White Thermo.	L.F.	1340
598	Thermo. Pvmnt. Marking Symbol	Each	6

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
0	W20-1	"ROAD WORK AHEAD"
0	W20-2	"DETOUR AHEAD"
0	W20-3	"ROAD CLOSED AHEAD"
0	W20-5	"(RIGHT OR LEFT) LANE CLOSED AHEAD"
0	W4-2	LANE DROP SYMBOL, RIGHT OR LEFT
0	W20-1a	WORK SYMBOL
0	W1-4	REVERSE CURVE
0	W1-6	ONE DIRECTION ARROW
0	M4-9 L&R&S	DETOUR (LEFT, RIGHT, OR STRAIGHT ARROW)
0	D3-1	CONVENTIONAL GUIDE
0	M4-8a	"DETOUR ENDS"
0	M4-10	"DETOUR"
0	R6-1 L&R	"ONE WAY" (LEFT OR RIGHT)
0	TYPE III	TYPE III LIGHTED BARRICADE
0	TYPE II	TYPE II LIGHTED BARRICADE (DRUM)
0	R11-2	"ROAD CLOSED"
0	R11-4	"ROAD CLOSED TO THRU TRAFFIC"
0	TYPE A	LIGHTED ARROW, TYPE A
0	TYPE B	LIGHTED ARROW, TYPE B
0	R9-9	SIDEWALK CLOSED
0	R9-11	SIDEWALK CLOSED AHEAD CROSS HERE
0	R5-9	SIDEWALK CLOSED USE OTHER SIDE
0	G20-2	"END ROAD WORK"
0	R5-18b	"INJURE/KILL A WORKER \$7500+15 YEARS"
0	R5-18cLA	"WORK ZONE BEGINS/TRAFFIC FINES DOUBLED"
0	R3-1	NO RIGHT TURN
0	R3-2	NO LEFT TURN
0	SPECIAL	42"X48" SPECIAL SIGN
0	W20-5c	"CENTER LANE CLOSED AHEAD"
0	R2-1	SPEED LIMIT
0	TYPE C	LIGHTED ARROW, TYPE C
0	W3-5	REDUCED SPEED LIMIT AHEAD

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 1/2 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER.
7. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
8. PLACE STRESS ABSORBING MEMBRANE INTERLAYER AS DIRECTED BY THE ENGINEER.
7. IMPLEMENT DETOUR IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
8. PAVE 2 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
9. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. REMOVE DETOUR TRAFFIC CONTROL DEVICES
11. PAVE 1-1/2 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. COMPLETE ALL PAVEMENT MARKINGS.
14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND ITS DETAILS WHICH ARE INCLUDED BY REFERENCE. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 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 (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) 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.



PROJECT MANAGEMENT SERVICE UNIT

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



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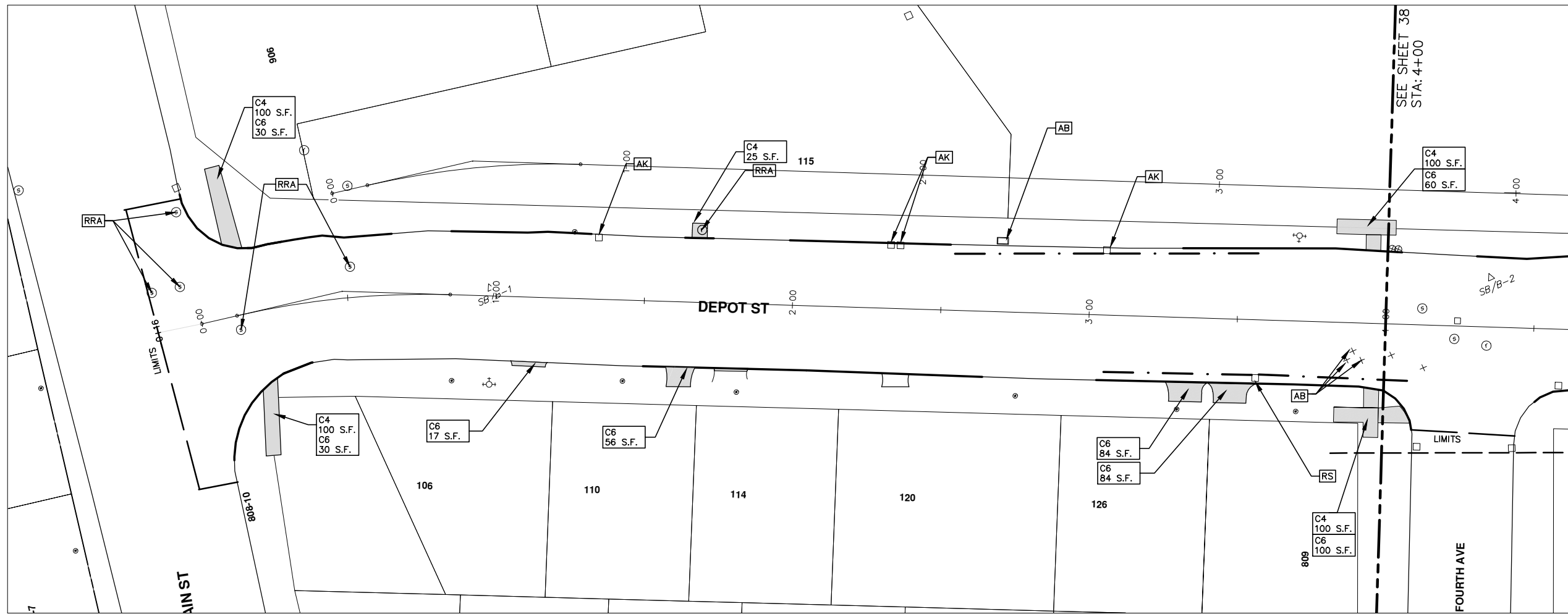
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

PROJECT DESCRIPTION AND LIMITS

PROJECT DESCRIPTION

DRAWING No. 2013004 - 36

SHEET No. 36 OF 89



CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
 DEPOT STREET
 CONSTRUCTION PLAN, PG 1 OF 3

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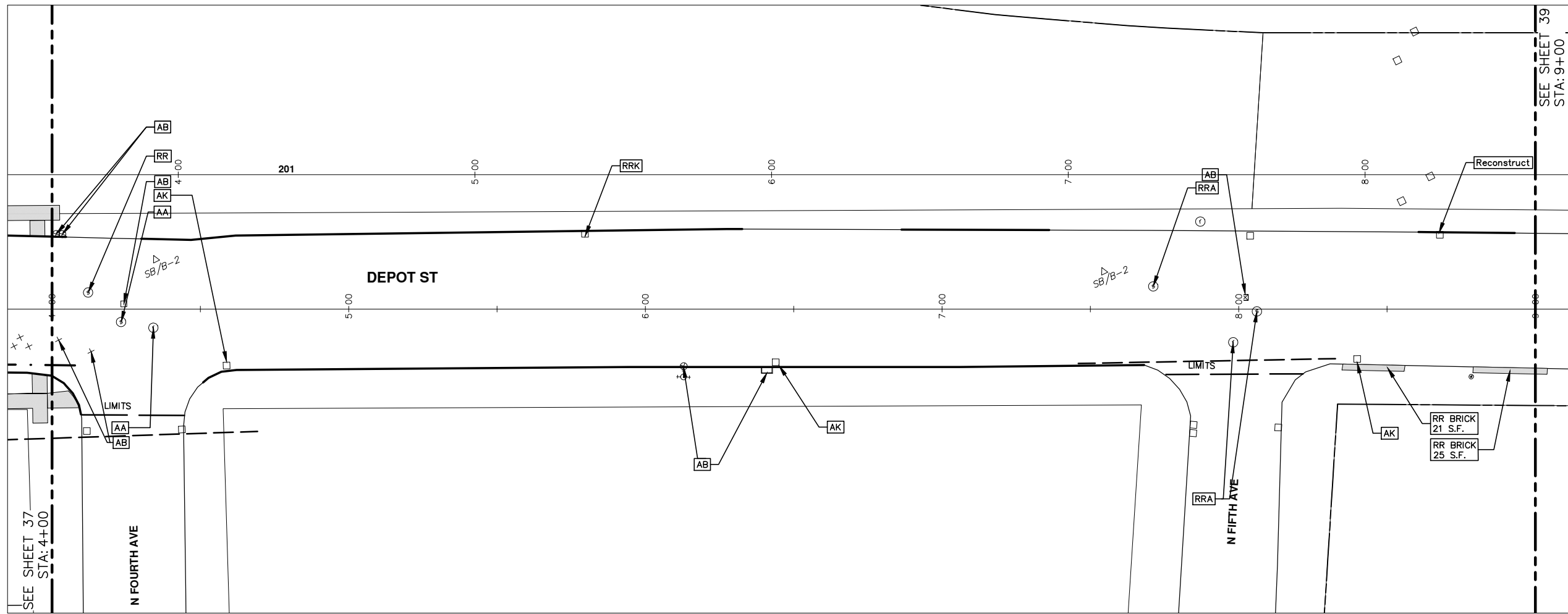
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SCALE PLAN: 1" = 20'

DRAWING No. 2013004-37

SHEET No. 37 OF 89

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SEE SHEET 39
STA: 9+00

CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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



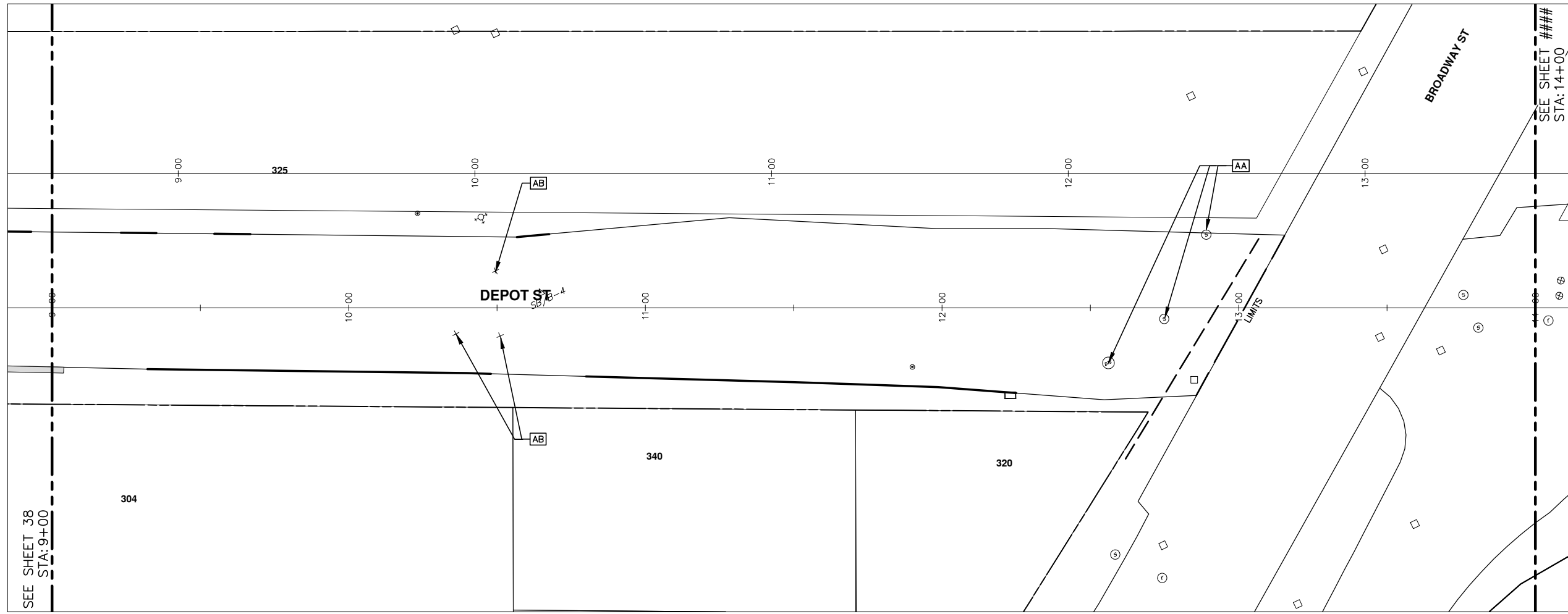
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
 DEPOT STREET
 CONSTRUCTION PLAN, PG 2 OF 3

SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-38

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SEE SHEET 38
STA: 9+00

SEE SHEET ###
STA: 14+00

CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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



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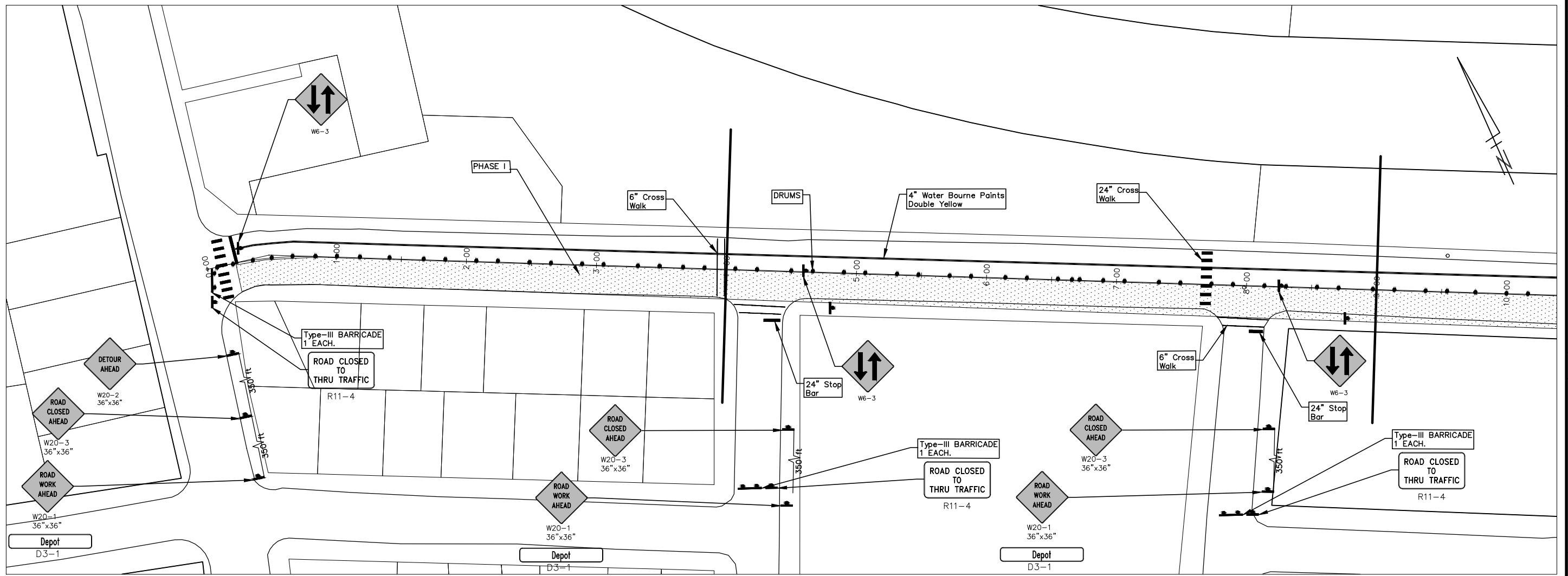
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
DEPOT STREET
CONSTRUCTION PLAN, PG 3 OF 3

SCALE PLAN: 1" = 20'
DRAWING No. 2013004-39

SHEET No. 39 OF 89

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REV.	DESCRIPTION	DATE	DATE	

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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP, H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP, OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

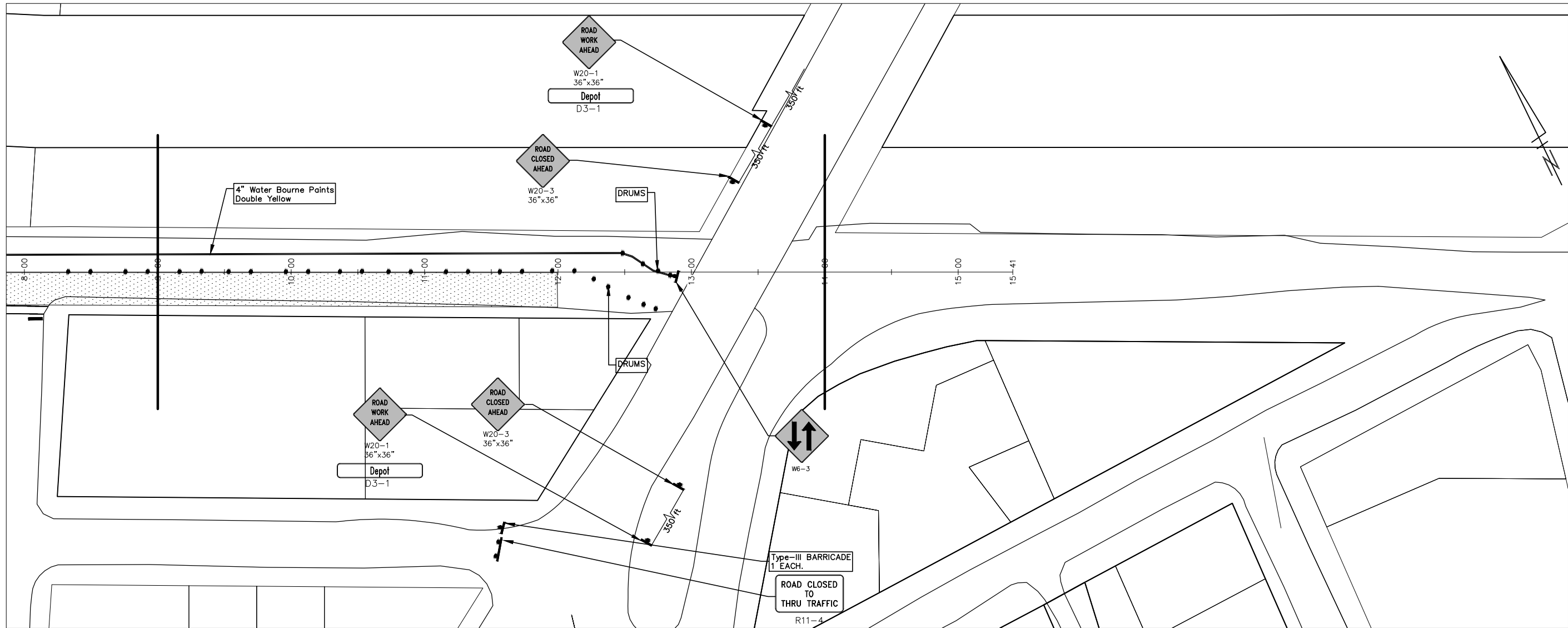


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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 DEPOT STREET
 TRAFFIC CONTROL PHASE I, PG 1 OF 2
 SCALE PLAN: 1" = 40'
 DRAWING No. 2013004-40

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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRR	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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



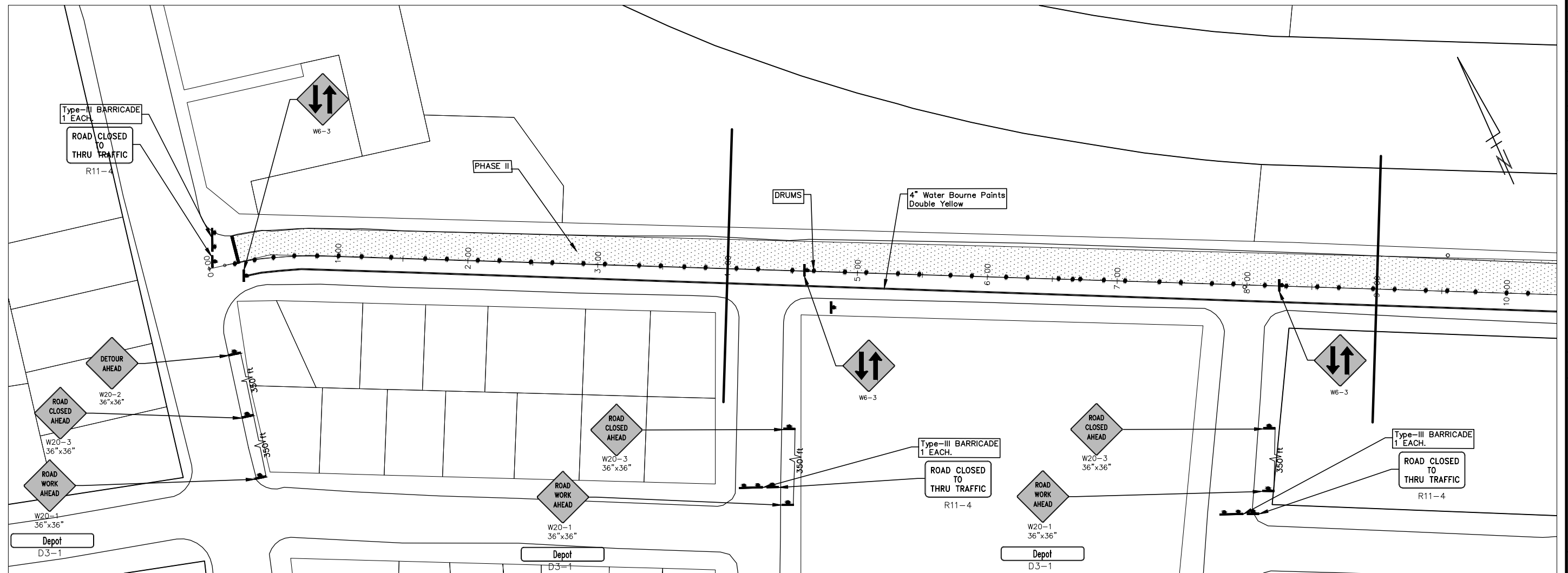
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 DEPOT STREET
 TRAFFIC CONTROL PHASE I, PG 2 OF 2

SCALE PLAN: 1" = 40'
 DRAWING No. 2013004-41

SHEET No. 41 OF 89

REV.	DESCRIPTION	DATE	DRAWN BY	CHECKED
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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

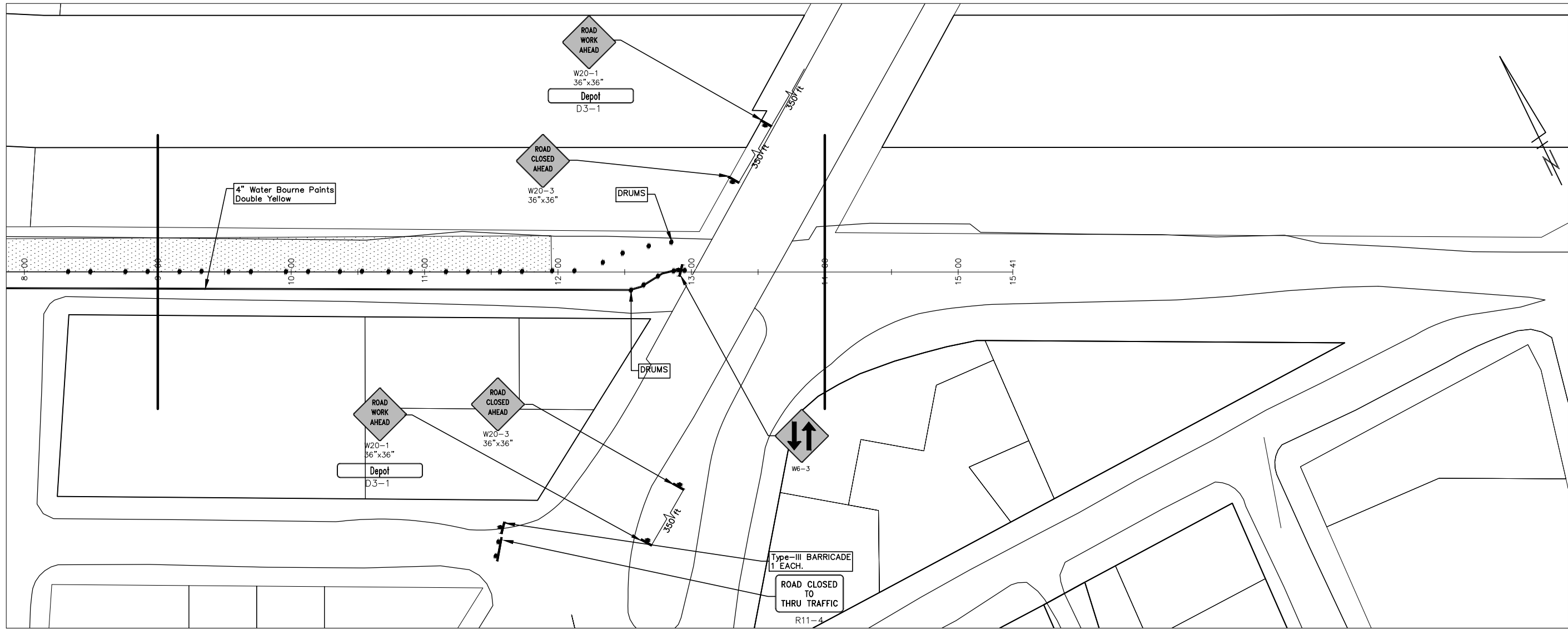


NO.	DATE	DESCRIPTION	BY	CHECKED



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 DEPOT STREET
 TRAFFIC CONTROL PHASE II, PG 1 OF 2
 SCALE PLAN: 1" = 40'
 DRAWING No. 2013004-42

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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRR	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRR	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 DEPOT STREET
 TRAFFIC CONTROL PHASE II, PG 2 OF 2

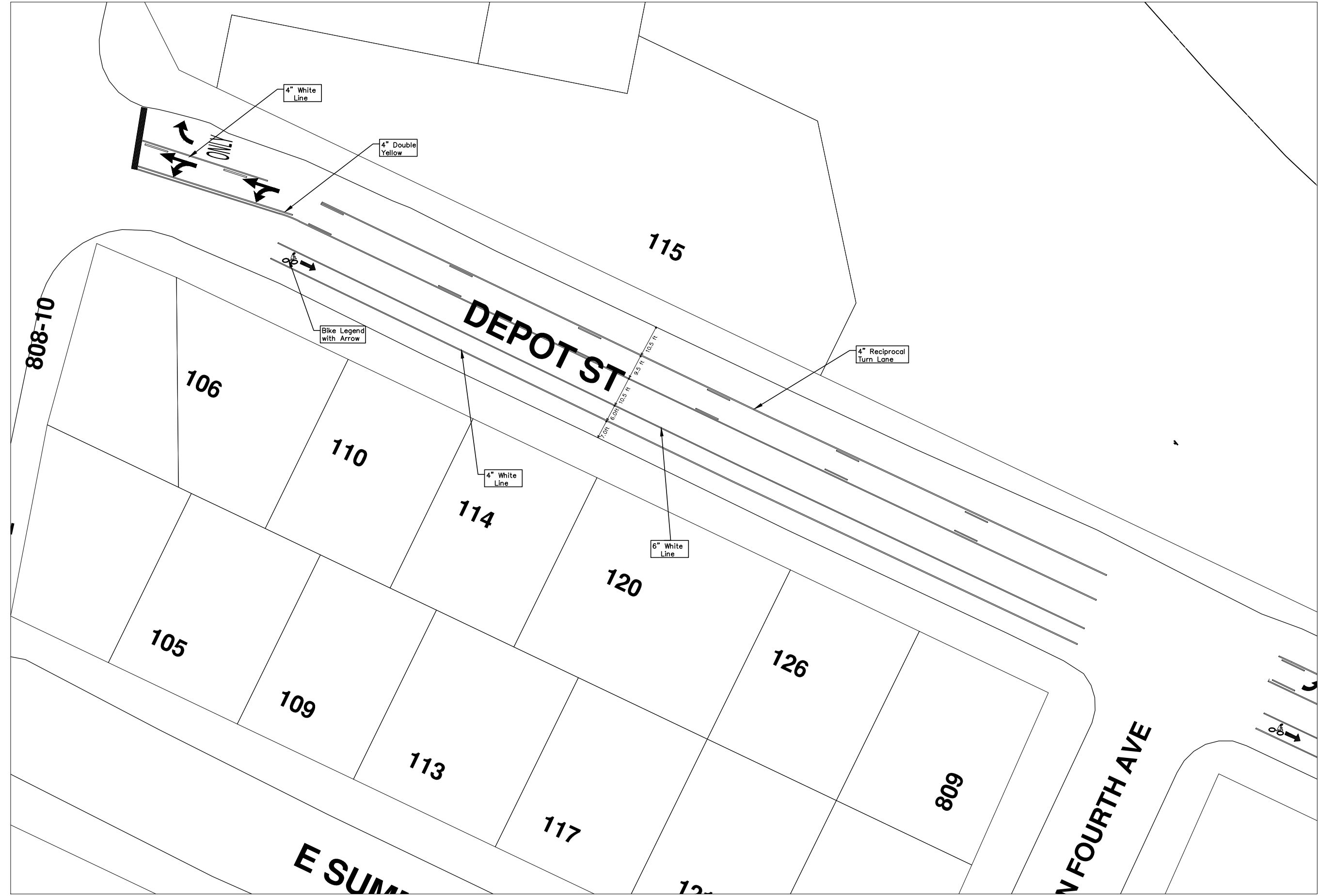
SCALE PLAN: 1" = 40'
 DRAWING No. 2013004-43

SHEET No. 43 OF 89



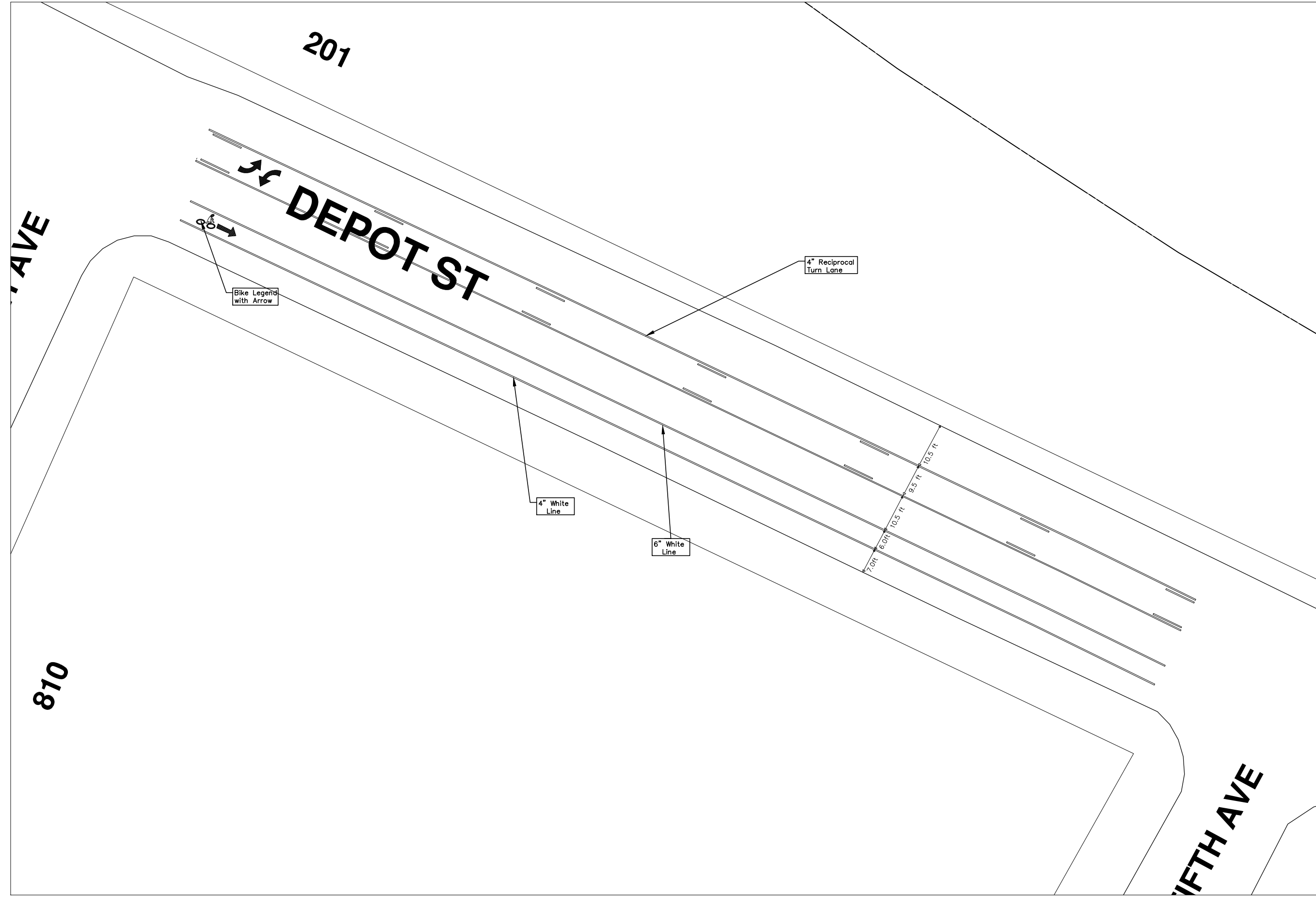
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AVE

201

DEPOT ST

810

FIFTH AVE


Bike Legend with Arrow

4" White Line

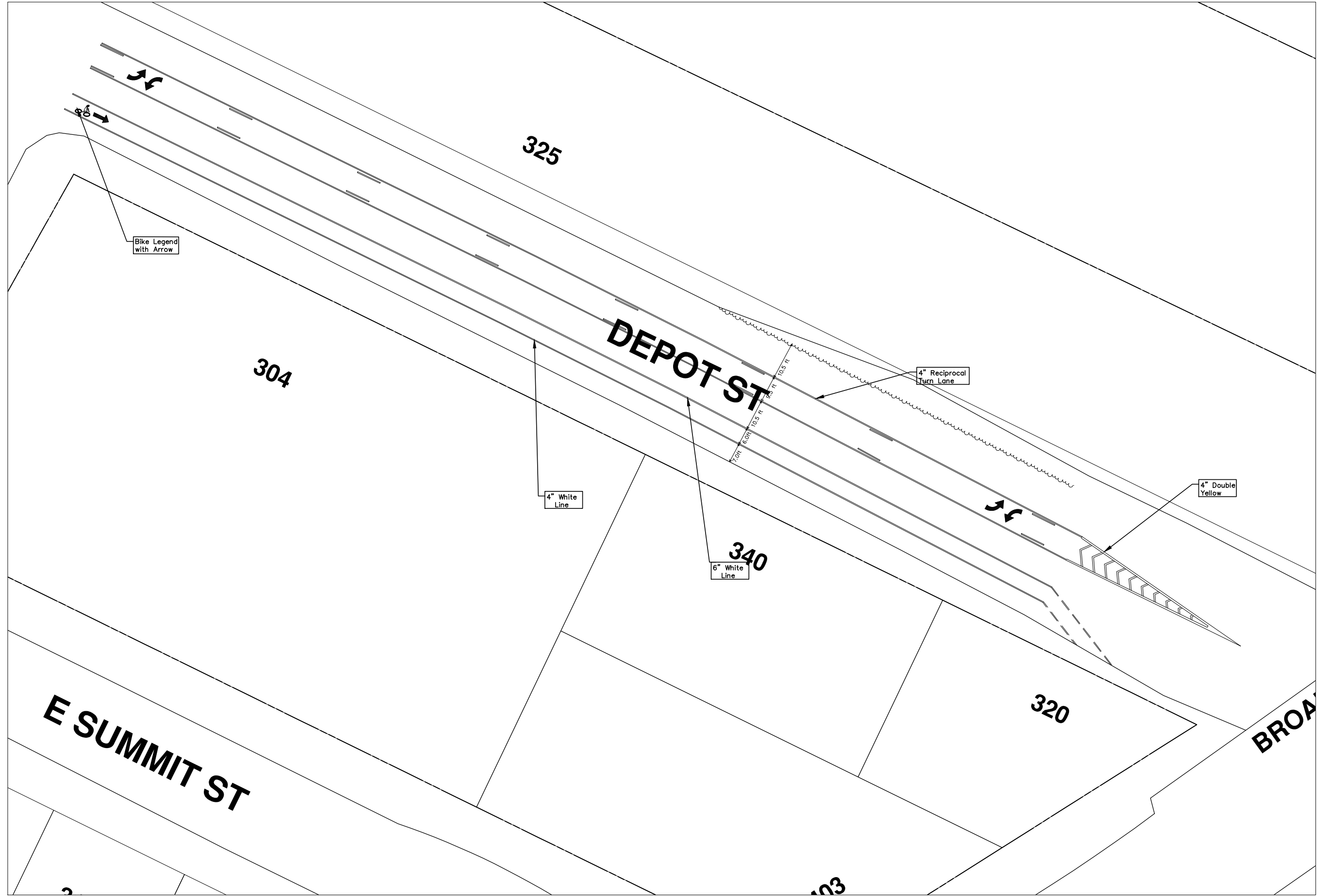
6" White Line

4" Reciprocal Turn Lane



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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR 2013 ANNUAL RESURFACING PROGRAM DEPOT STREET		PAVEMENT MARKING DETAIL, PG 2 OF 3	
SCALE PLAN: Custom	DRAWING No: 2013004-45	OUT FOR BID REV.	DESCRIPTION DATE DATE DRAWN BY DRAWN CHECKED CHECKED
SHEET No. 45 OF 89			

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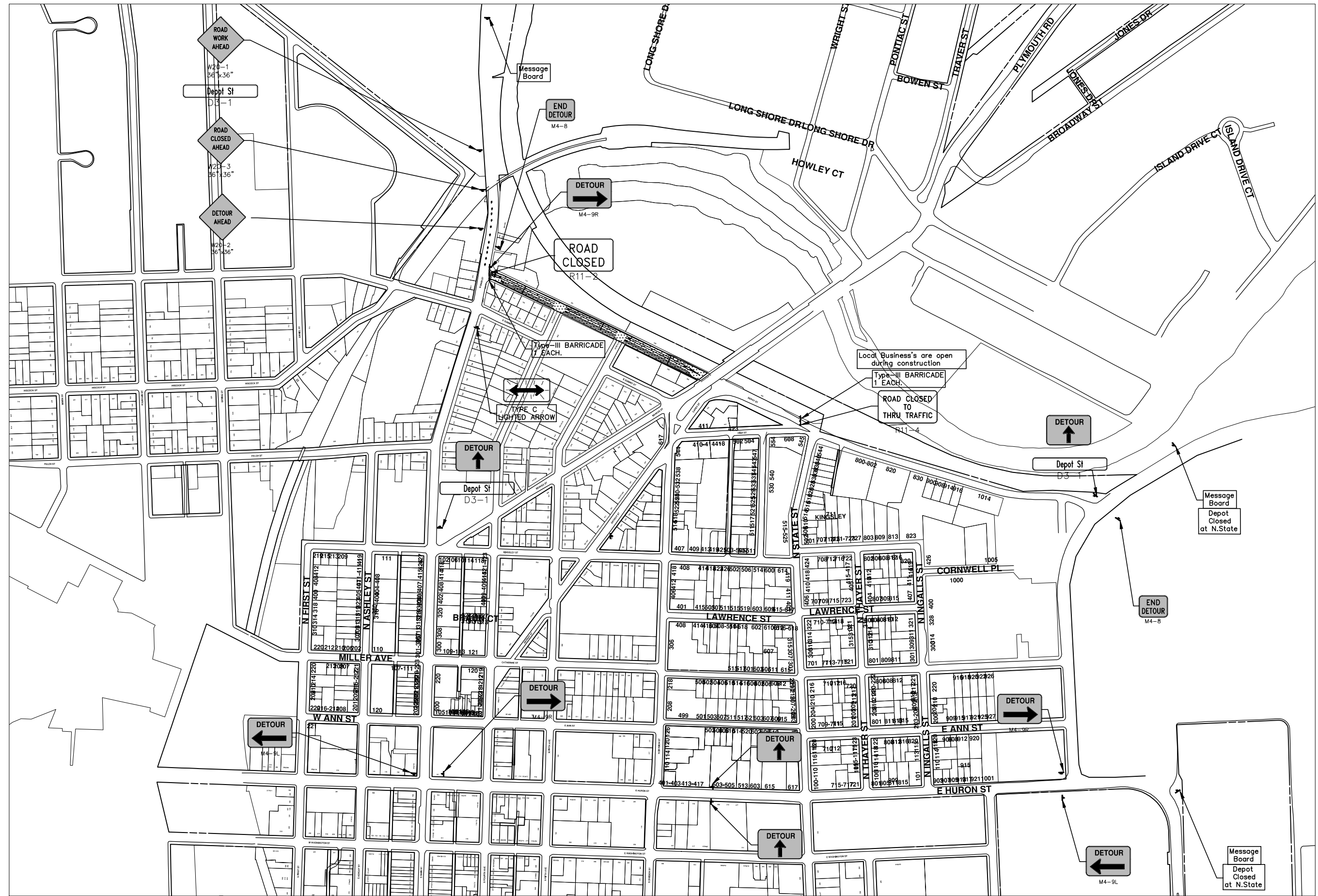


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
DEPOT STREET
PAVEMENT MARKING DETAIL, PG. 3 OF 3

SCALE PLAN: Custom
DRAWING No.: 2013004-46

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2013 ANNUAL RESURFACING PROGRAM
 DEPOT STREET
 DETOUR DETAIL

SCALE PLAN: Custom
 DRAWING No. 2013004-47



CITY OF ANN ARBOR PROJECT MANAGEMENT 2013 ANNUAL RESURFACING PROGRAM

PROJECT LOCATION: WALDENWOOD DRIVE

FILE No. 2013004-10

QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
207	Cold Mill Pavement	Tons	2160
209	Subgrade Undercutting	C.Y.	740
222	Bit. Pvmnt. Base/Leveling, Regular	Tons	1300
223	Bit Pvmnt. Wearing, Regular	Tons	870
230	Remove Curb & Gutter	L.F.	1540
232	Remove Conc. Pavement	S.F.	2460
237	Conc. Curb & Gutter	L.F.	1540
240	4" Sidewalk Or Ramp	S.F.	1005
241	6" Sidewalk & Drives	S.F.	1550
245	Detectable Warning, Cast in Place	S.F.	150
250	2' Dia. Structure	Each	16
254	Lower Structures	Each	22
255	Lwr. Mon. + GV. Box	Each	1
256	Adj. Structure Covers	Each	22
257	Adj. Curb Inlet Structure Cover	Each	24
258	Adj. Mon. & GV. Box	Each	1
259	Manhole Flange & Cover (A)	Each	21
264	12" Storm Sewer	L.F.	160
267	6" Wrapped Underdrain	L.F.	400
271	21AA Limestone, C.I.P.	C.Y.	740
282	Plastic Drum, Furn. & Operate	Each	200
283	Type 3 Barr.	Each	5
284	Temp Signs Type B	S.F.	470
285	No Parking Signs	Each	60
291	4' Dia Structure	Each	1
597	24" White Thermo.	L.F.	17

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
0	W20-1	"ROAD WORK AHEAD"
0	W20-2	"DETOUR AHEAD"
0	W20-3	"ROAD CLOSED AHEAD"
0	W20-5	"(RIGHT OR LEFT) LANE CLOSED AHEAD"
0	W4-2	LANE DROP SYMBOL, RIGHT OR LEFT
0	W20-1a	WORK SYMBOL
0	W1-4	REVERSE CURVE
0	W1-6	ONE DIRECTION ARROW
0	M4-9 L&R&S	DETOUR (LEFT, RIGHT, OR STRAIGHT ARROW)
0	D3-1	CONVENTIONAL GUIDE
0	M4-8a	"DETOUR ENDS"
0	M4-10	"DETOUR"
0	R6-1 L&R	"ONE WAY" (LEFT OR RIGHT)
0	TYPE III	TYPE III LIGHTED BARRICADE
0	TYPE II	TYPE II LIGHTED BARRICADE (DRUM)
0	R11-2	"ROAD CLOSED"
0	R11-4	"ROAD CLOSED TO THRU TRAFFIC"
0	TYPE A	LIGHTED ARROW, TYPE A
0	TYPE B	LIGHTED ARROW, TYPE B
0	R9-9	SIDEWALK CLOSED
0	R9-11	SIDEWALK CLOSED AHEAD CROSS HERE
0	R5-9	SIDEWALK CLOSED USE OTHER SIDE
0	G20-2	"END ROAD WORK"
0	R5-18b	"INJURE/KILL A WORKER \$7500+15 YEARS"
0	R5-18cLA	"WORK ZONE BEGINS/TRAFFIC FINES DOUBLED"
0	R3-1	NO RIGHT TURN
0	R3-2	NO LEFT TURN
0	SPECIAL	42"x48" SPECIAL SIGN
0	W20-5c	"CENTER LANE CLOSED AHEAD"
0	R2-1	SPEED LIMIT
0	TYPE C	LIGHTED ARROW, TYPE C
0	W3-5	REDUCED SPEED LIMIT AHEAD

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 5 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER.
7. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED AND PERFORM UNDERCUTS AS NEEDED AS DIRECTED BY THE ENGINEER.
8. PAVE 3 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT AS DIRECTED BY THE ENGINEER.
9. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 2 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT AS DIRECTED BY THE ENGINEER.
11. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
12. COMPLETE ALL PAVEMENT MARKINGS.
13. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND ITS DETAILS WHICH ARE INCLUDED BY REFERENCE. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 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 (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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PROJECT MANAGEMENT SERVICE UNIT

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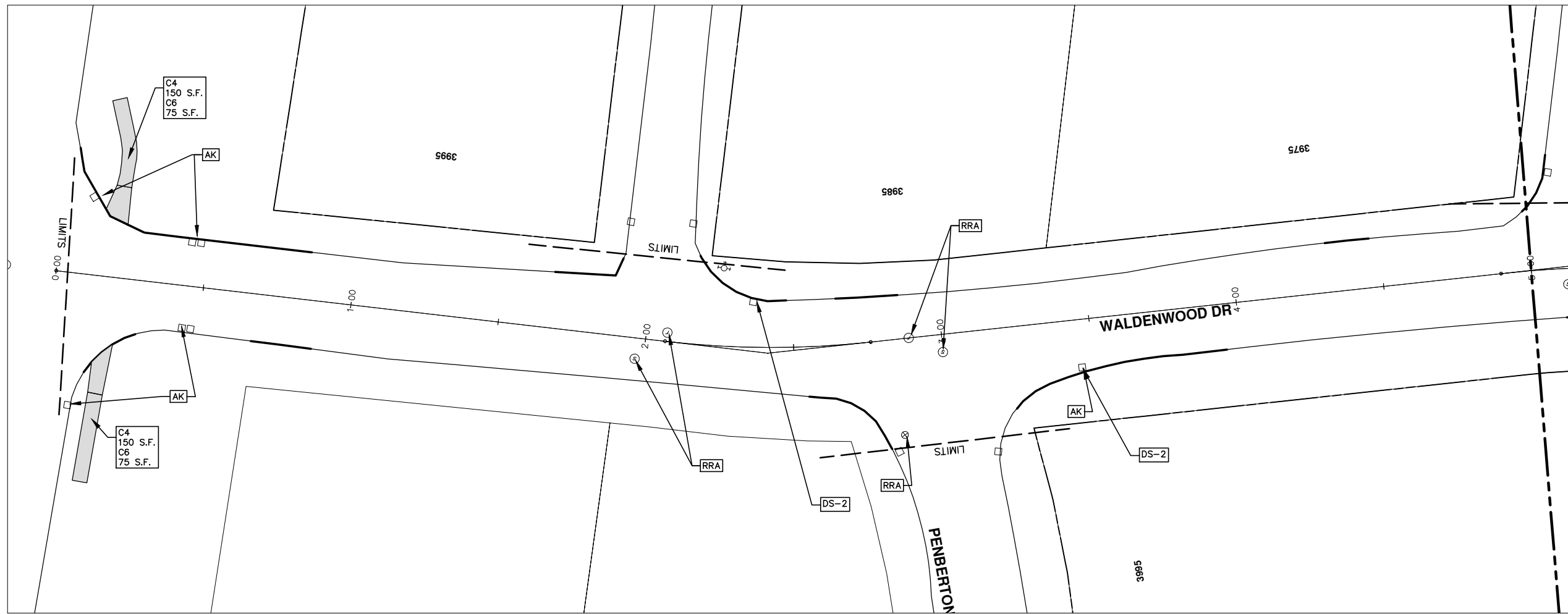
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

PROJECT DESCRIPTION AND LIMITS

DRAWING No. 2013004 - 48

SHEET No. 48 OF 89

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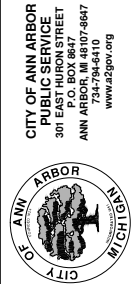


CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP, H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP, OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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
[Hatched Box]	REMOVE AND REPLACE CONC. SIDEWALK
[Dotted Box]	PLACE CONCRETE SIDEWALK
[Double Line]	REMOVE & REPLACE CONC. CURB & GUTTER
[Dashed Line]	CONSTRUCTION LIMITS
[Dash-Dot Line]	6" WRAPPED UNDERDRAIN
[Hatched Box]	REMOVE CONCRETE SIDEWALK
[Solid Grey Box]	SUBGRADE UNDERCUT

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 WALDENWOOD DRIVE
 CONSTRUCTION PLAN, PG 1 OF 5

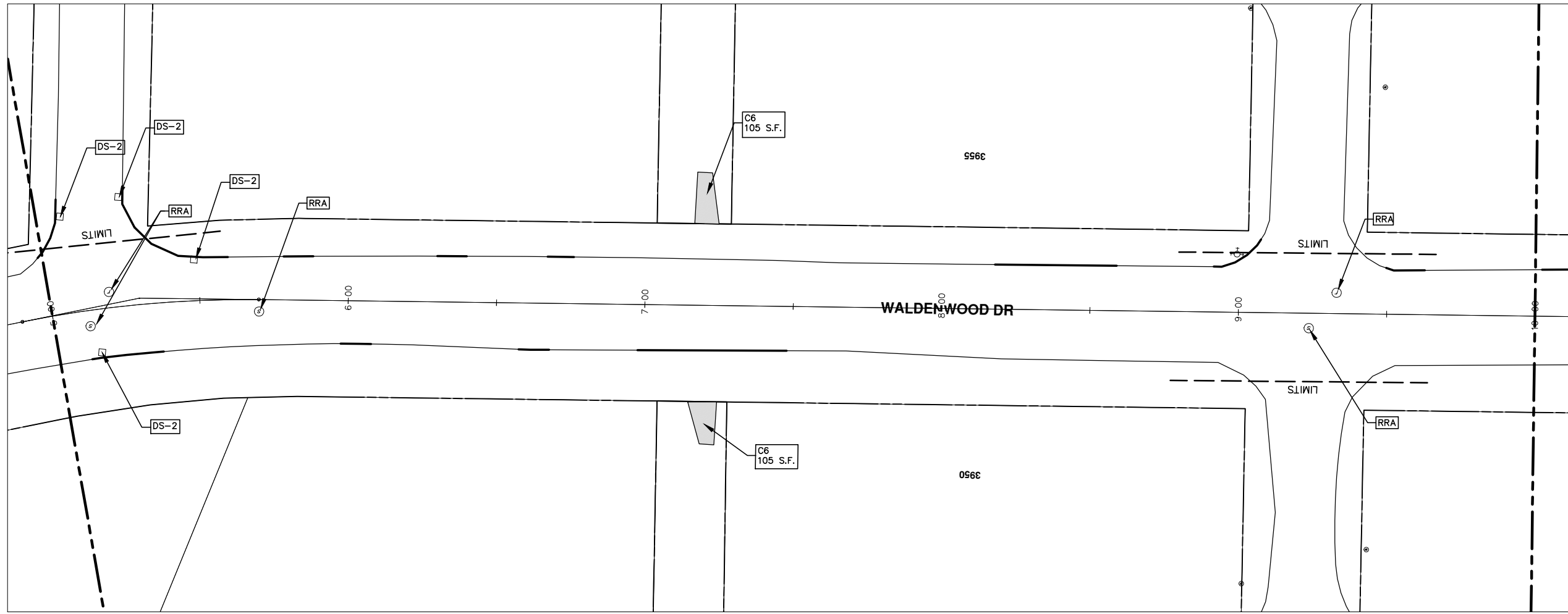
SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-49



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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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
⓪	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊙	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
[Pattern]	REMOVE AND REPLACE CONC. SIDEWALK
[Pattern]	PLACE CONCRETE SIDEWALK
[Pattern]	REMOVE & REPLACE CONC. CURB & GUTTER
[Pattern]	CONSTRUCTION LIMITS
[Pattern]	6" WRAPPED UNDERDRAIN
[Pattern]	REMOVE CONCRETE SIDEWALK
[Pattern]	SUBGRADE UNDERCUT

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 WALDENWOOD DRIVE
 CONSTRUCTION PLAN, PG 2 OF 5

SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-50

SHEET No. 50 OF 89

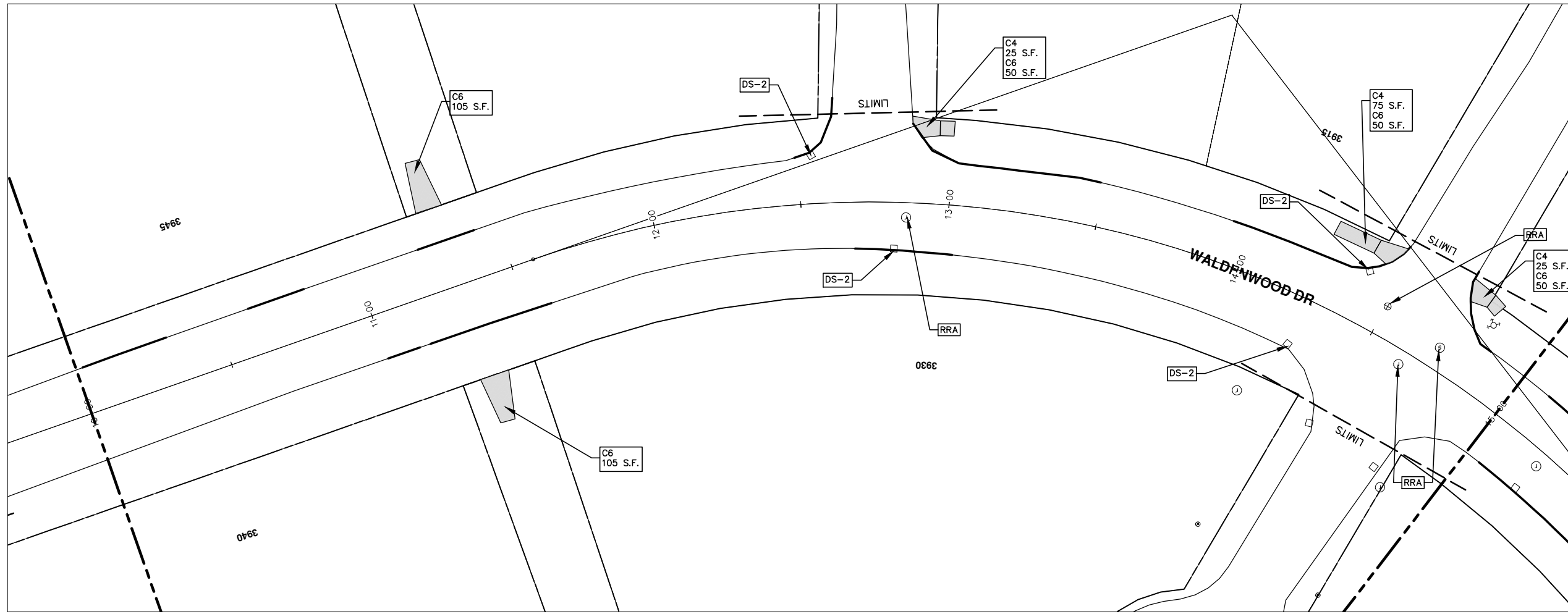
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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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
[Hatched Box]	REMOVE AND REPLACE CONC. SIDEWALK
[Dotted Box]	PLACE CONCRETE SIDEWALK
[Thick Line]	REMOVE & REPLACE CONC. CURB & GUTTER
[Dashed Line]	CONSTRUCTION LIMITS
[Dotted Line]	6" WRAPPED UNDERDRAIN
[Hatched Box]	REMOVE CONCRETE SIDEWALK
[Shaded Box]	SUBGRADE UNDERCUT



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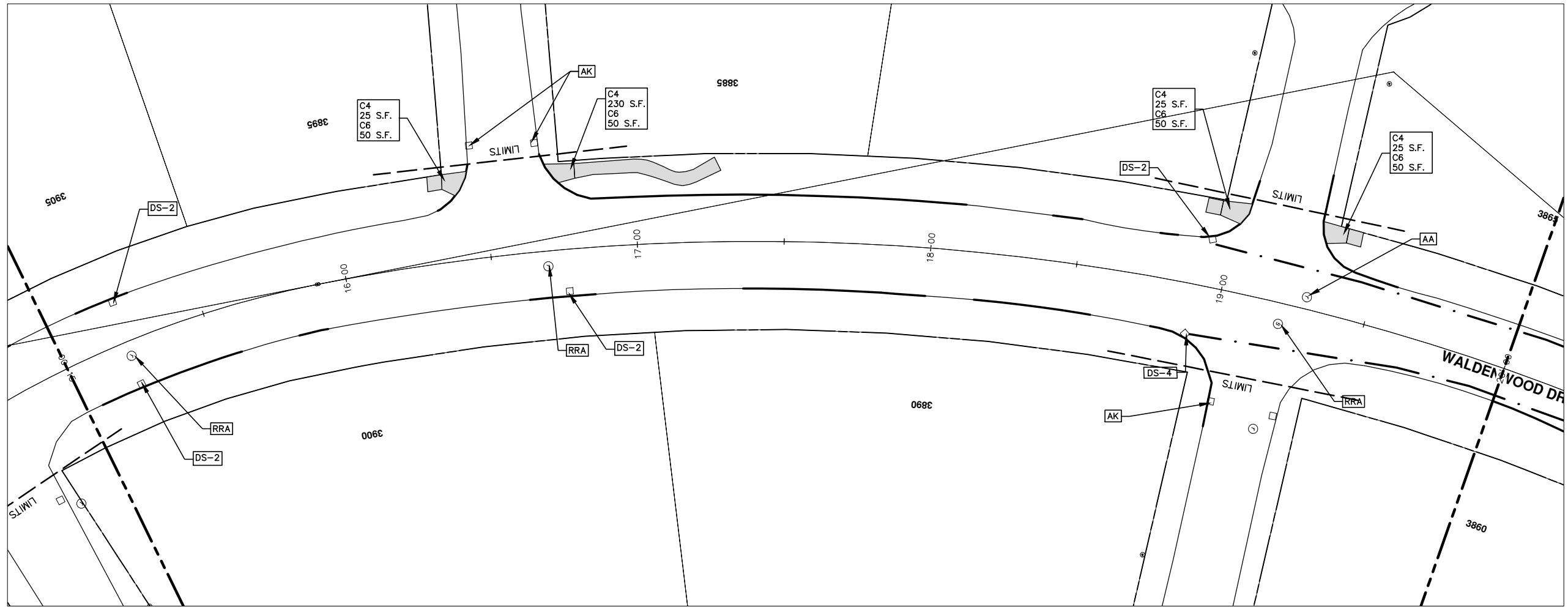


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
WALDENWOOD DRIVE
CONSTRUCTION PLAN, PG 3 OF 5

SCALE PLAN: 1" = 20'
DRAWING No. 2013004-51

REV.	DESCRIPTION	DATE	BY	CHECKED
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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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



REV.	DESCRIPTION	DATE	BY	CHECKED

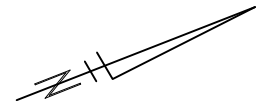
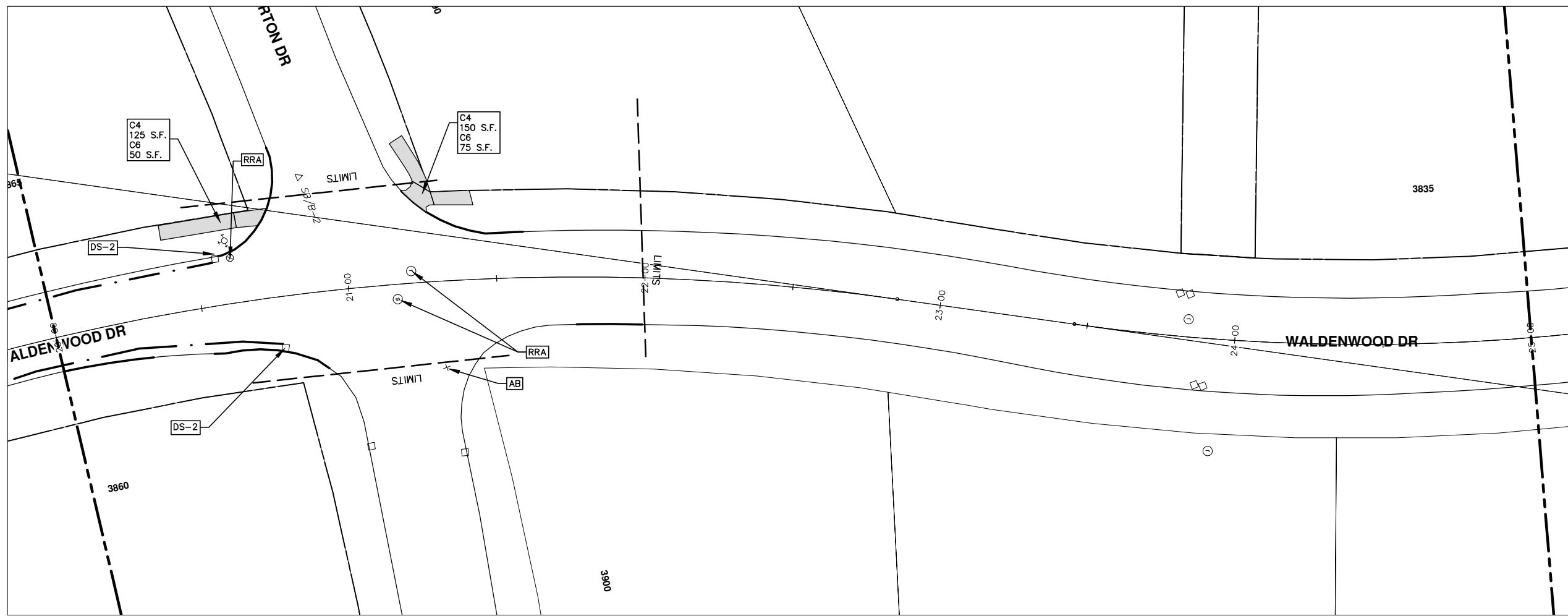
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
WALDENWOOD DRIVE
CONSTRUCTION PLAN, PG 4 OF 5

SCALE PLAN: 1" = 20'
DRAWING No. 2013004-52

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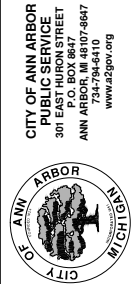
CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 WALDENWOOD DRIVE
 CONSTRUCTION PLAN, PG 5 OF 5

SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-53

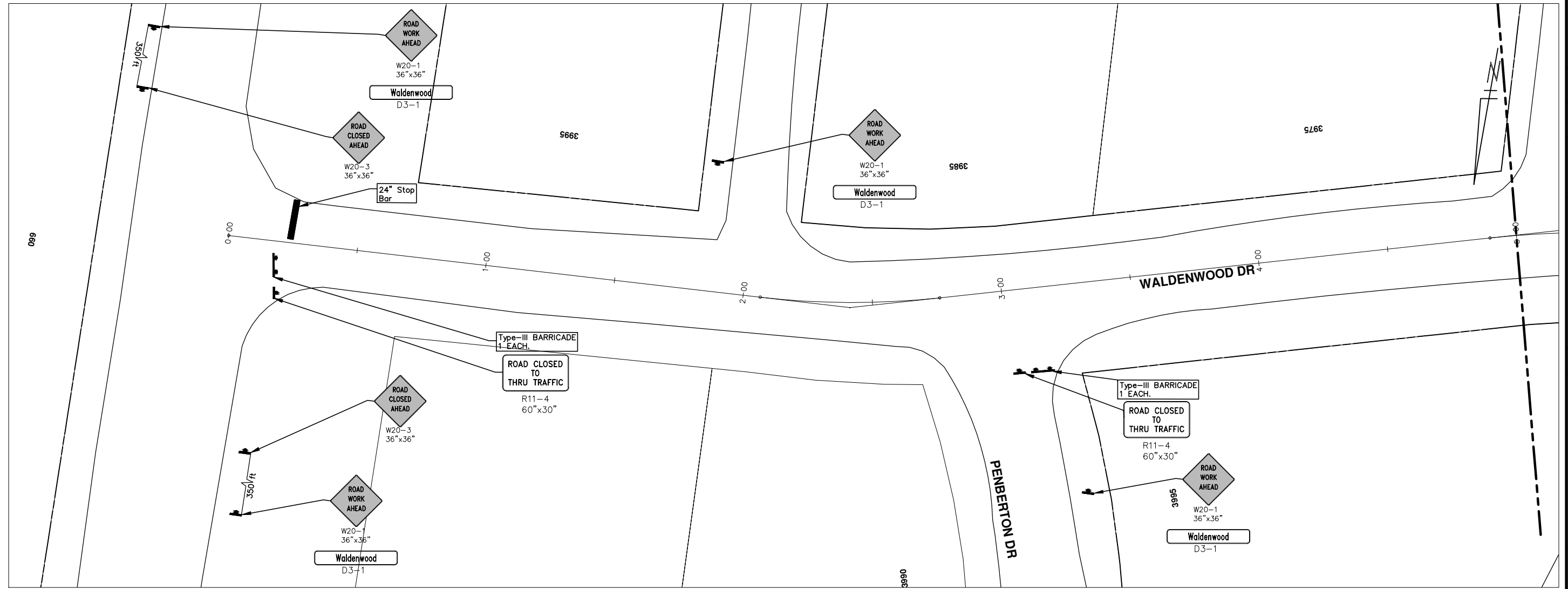
SHEET No. 53 OF 89



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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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
[Hatched Box]	REMOVE AND REPLACE CONC. SIDEWALK
[Dotted Box]	PLACE CONCRETE SIDEWALK
[Thick Line]	REMOVE & REPLACE CONC. CURB & GUTTER
[Dashed Line]	CONSTRUCTION LIMITS
[Dashed Line]	6" WRAPPED UNDERDRAIN
[Hatched Box]	REMOVE CONCRETE SIDEWALK
[Solid Line]	SUBGRADE UNDERCUT



Know what's below. Call Before you dig.

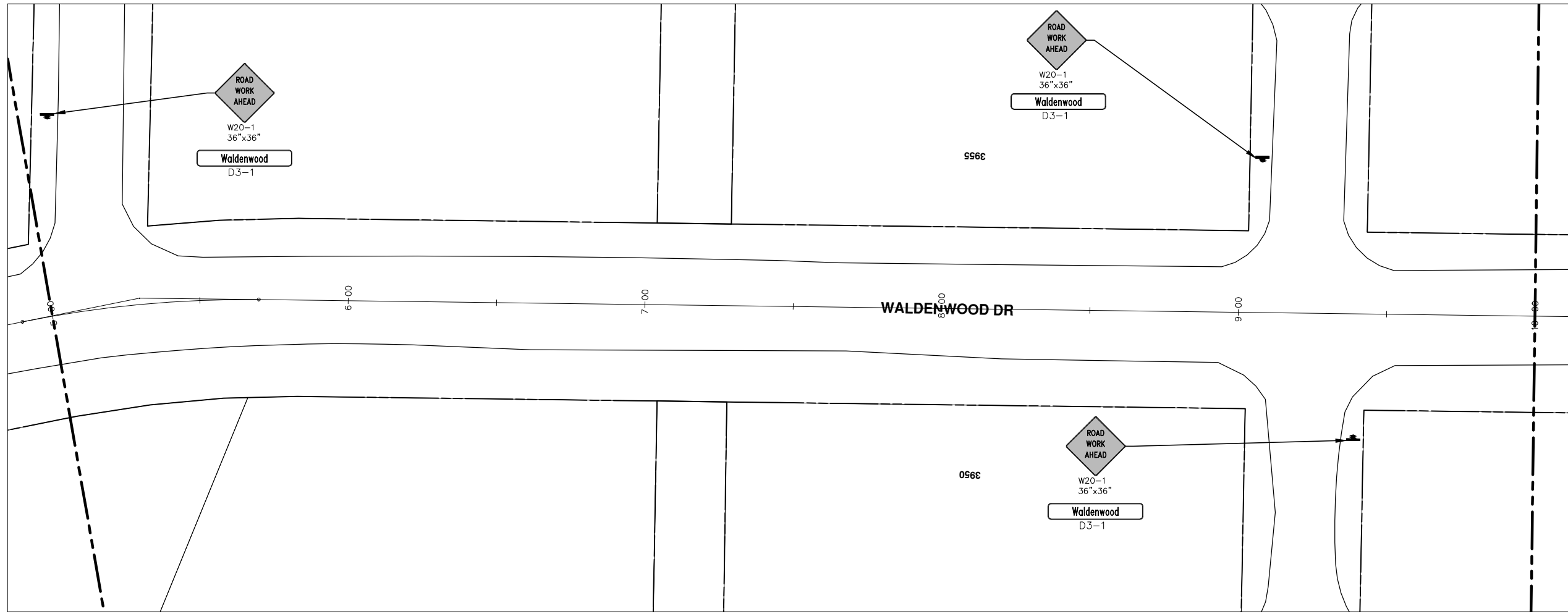
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2013 ANNUAL RESURFACING PROGRAM
WALDENWOOD DRIVE
TRAFFIC CONTROL, PG 1 OF 5

SCALE PLAN: 1" = 20'
DRAWING No. 2013004-54

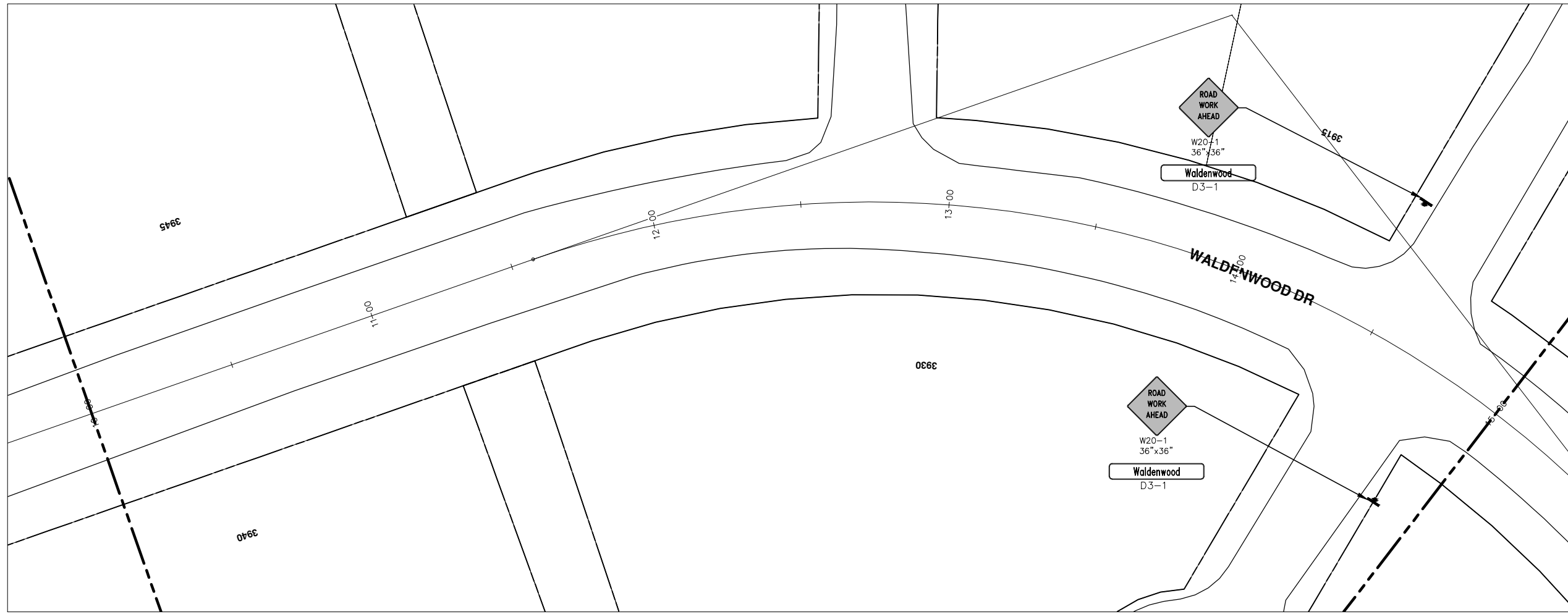
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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT -- ANY THICKNESS
RCW	RAISED CROSSWALK

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
⓪	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊙	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
[Pattern]	REMOVE AND REPLACE CONC. SIDEWALK
[Pattern]	PLACE CONCRETE SIDEWALK
[Pattern]	REMOVE & REPLACE CONC. CURB & GUTTER
[Pattern]	CONSTRUCTION LIMITS
[Pattern]	6" WRAPPED UNDERDRAIN
[Pattern]	REMOVE CONCRETE SIDEWALK
[Pattern]	SUBGRADE UNDERCUT

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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT -- ANY THICKNESS
RCW	RAISED CROSSWALK

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



REV.	DESCRIPTION	DATE	BY	CHECKED

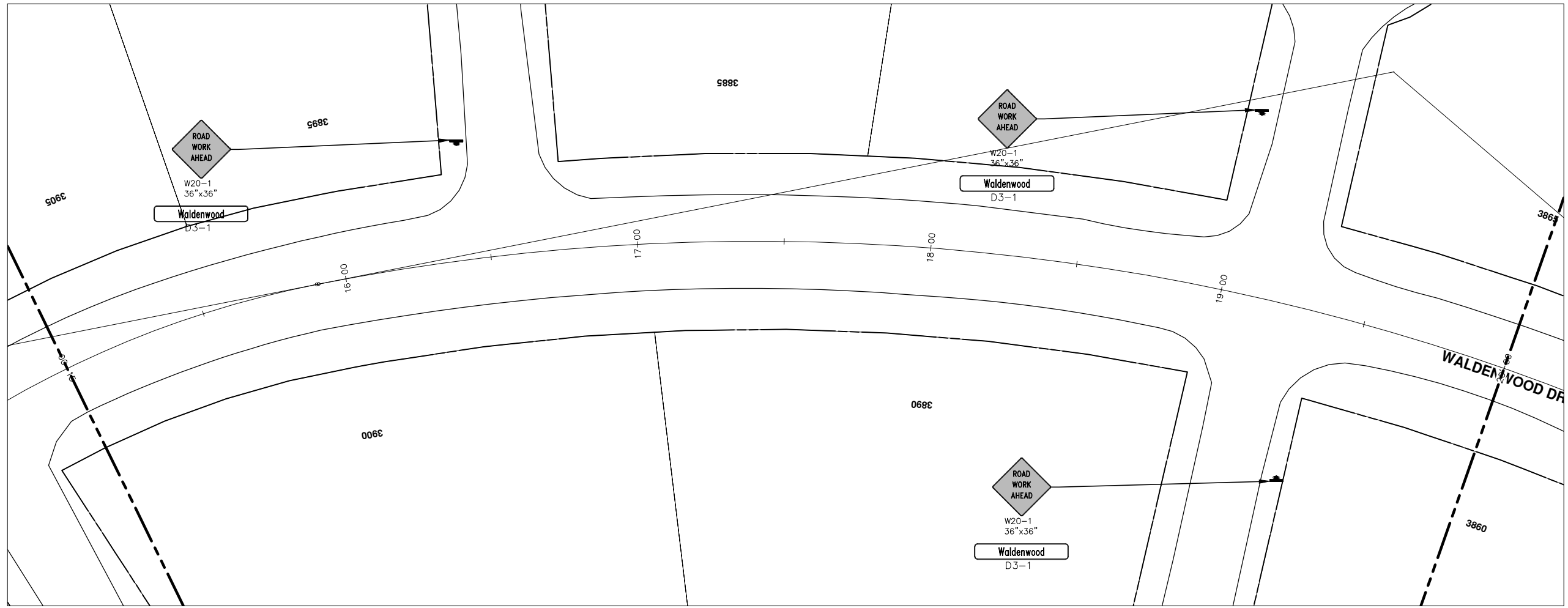
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
WALDENWOOD DRIVE
TRAFFIC CONTROL, PG 3 OF 5

SCALE PLAN: 1" = 20'
DRAWING No. 2013004-56

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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT -- ANY THICKNESS
RCW	RAISED CROSSWALK

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
[Hatched Box]	REMOVE AND REPLACE CONC. SIDEWALK
[Dotted Box]	PLACE CONCRETE SIDEWALK
[Double Line]	REMOVE & REPLACE CONC. CURB & GUTTER
[Dashed Line]	CONSTRUCTION LIMITS
[Dash-Dot Line]	6" WRAPPED UNDERDRAIN
[Hatched Box]	REMOVE CONCRETE SIDEWALK
[Solid Grey Box]	SUBGRADE UNDERCUT



REV.	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
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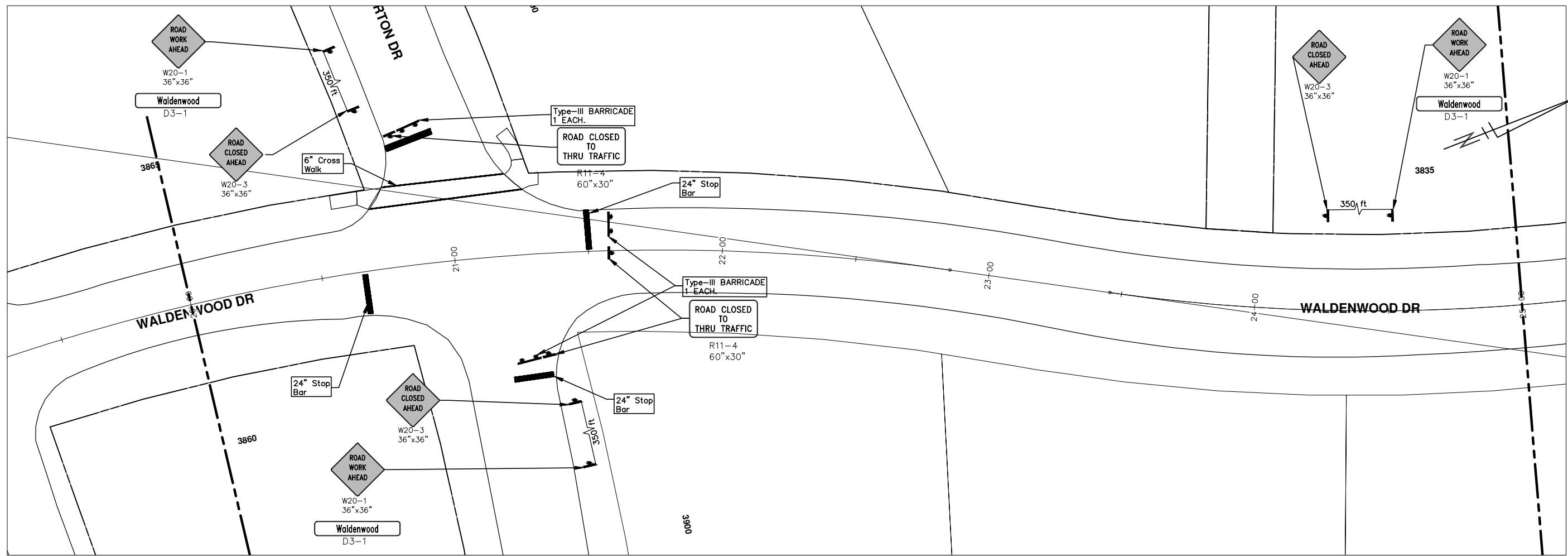
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2013 ANNUAL RESURFACING PROGRAM
WALDENWOOD DRIVE
TRAFFIC CONTROL, PG 4 OF 5

SCALE PLAN: 1" = 20'
DRAWING No. 2013004-57

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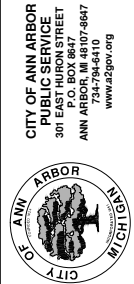


CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 WALDENWOOD DRIVE
 TRAFFIC CONTROL, PG 5 OF 5

SCALE PLAN: 1" = 20'
 DRAWING No.
 2013004-58



REV.	DESCRIPTION	DATE	BY	CHECKED





CITY OF ANN ARBOR PROJECT MANAGEMENT 2013 ANNUAL RESURFACING PROGRAM

PROJECT LOCATION: MARK HANNAH

FILE No. 2013004-11

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QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
207	Cold Mill Pavement	Tons	1140
209	Subgrade Undercutting	C.Y.	670
222	Bit. Pvmnt. Base/Leveling, Regular	Tons	680
223	Bit Pvmnt. Wearing, Regular	Tons	460
230	Remove Curb & Gutter	L.F.	1150
232	Remove Conc. Sidewalk/Drive	S.F.	1340
239	Conc. Curb & Gutter Machine	L.F.	1151
240	4" Sidewalk Or Ramp	S.F.	690
241	6" Sidewalk & Drives	S.F.	645
245	Detectable Warning, Cast in Place	S.F.	50
246	Integral Sidewalk Ret. Wall (< 6")	S.F.	10
250	2' Dia. Structure	Each	9
254	Lower Structures	Each	12
255	Lwr. Mon. + GV. Box	Each	1
256	Adj. Structure Covers	Each	12
257	Adj. Curb Inlet Structure Cover	Each	15
258	Adj. Mon. & GV. Box	Each	1
259	Manhole Flange & Cover (A)	Each	12
260	Inlet Structure Cover (K)	Each	6
264	12" Storm Sewer	L.F.	120
266	Sewer Bulkhead (4"-14")	Each	1
267	6" Wrapped Underdrain	L.F.	400
271	21AA Limestone, C.I.P.	C.Y.	670
282	Plastic Drum, Furn. & Operate	Each	100
283	Type 3 Barr.	Each	2
284	Temp Signs Type B	S.F.	250
285	No Parking Signs	Each	41
386	Sewer Structure Abandonment	Each	1
596	6" White Thermo.	L.F.	300
597	24" White Thermo.	L.F.	72

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
0	W20-1	"ROAD WORK AHEAD"
0	W20-2	"DETOUR AHEAD"
0	W20-3	"ROAD CLOSED AHEAD"
0	W20-5	"(RIGHT OR LEFT) LANE CLOSED AHEAD"
0	W4-2	LANE DROP SYMBOL, RIGHT OR LEFT
0	W20-1a	WORK SYMBOL
0	W1-4	REVERSE CURVE
0	W1-6	ONE DIRECTION ARROW
0	M4-9 L&R&S	DETOUR (LEFT, RIGHT, OR STRAIGHT ARROW)
0	D3-1	CONVENTIONAL GUIDE
0	M4-8a	"DETOUR ENDS"
0	M4-10	"DETOUR"
0	R6-1 L&R	"ONE WAY" (LEFT OR RIGHT)
0	TYPE III	TYPE III LIGHTED BARRICADE
0	TYPE II	TYPE II LIGHTED BARRICADE (DRUM)
0	R11-2	"ROAD CLOSED"
0	R11-4	"ROAD CLOSED TO THRU TRAFFIC"
0	TYPE A	LIGHTED ARROW, TYPE A
0	TYPE B	LIGHTED ARROW, TYPE B
0	R9-9	SIDEWALK CLOSED
0	R9-11	SIDEWALK CLOSED AHEAD CROSS HERE
0	R5-9	SIDEWALK CLOSED USE OTHER SIDE
0	G20-2	"END ROAD WORK"
0	R5-18b	"INJURE/KILL A WORKER \$7500+15 YEARS"
0	R5-18cLA	"WORK ZONE BEGINS/TRAFFIC FINES DOUBLED"
0	R3-1	NO RIGHT TURN
0	R3-2	NO LEFT TURN
0	SPECIAL	42"X48" SPECIAL SIGN
0	W20-5c	"CENTER LANE CLOSED AHEAD"
0	R2-1	SPEED LIMIT
0	TYPE C	LIGHTED ARROW, TYPE C
0	W3-5	REDUCED SPEED LIMIT AHEAD

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 5 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER.
7. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
8. PAVE 3 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT. DEPTH TO BE DETERMINED BY THE ENGINEER.
9. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 2 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT. DEPTH TO BE DETERMINED BY THE ENGINEER.
11. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
12. COMPLETE ALL PAVEMENT MARKINGS.
13. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND ITS DETAILS WHICH ARE INCLUDED BY REFERENCE. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 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 (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) 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.



PROJECT MANAGEMENT SERVICE UNIT

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

PROJECT DESCRIPTION AND LIMITS

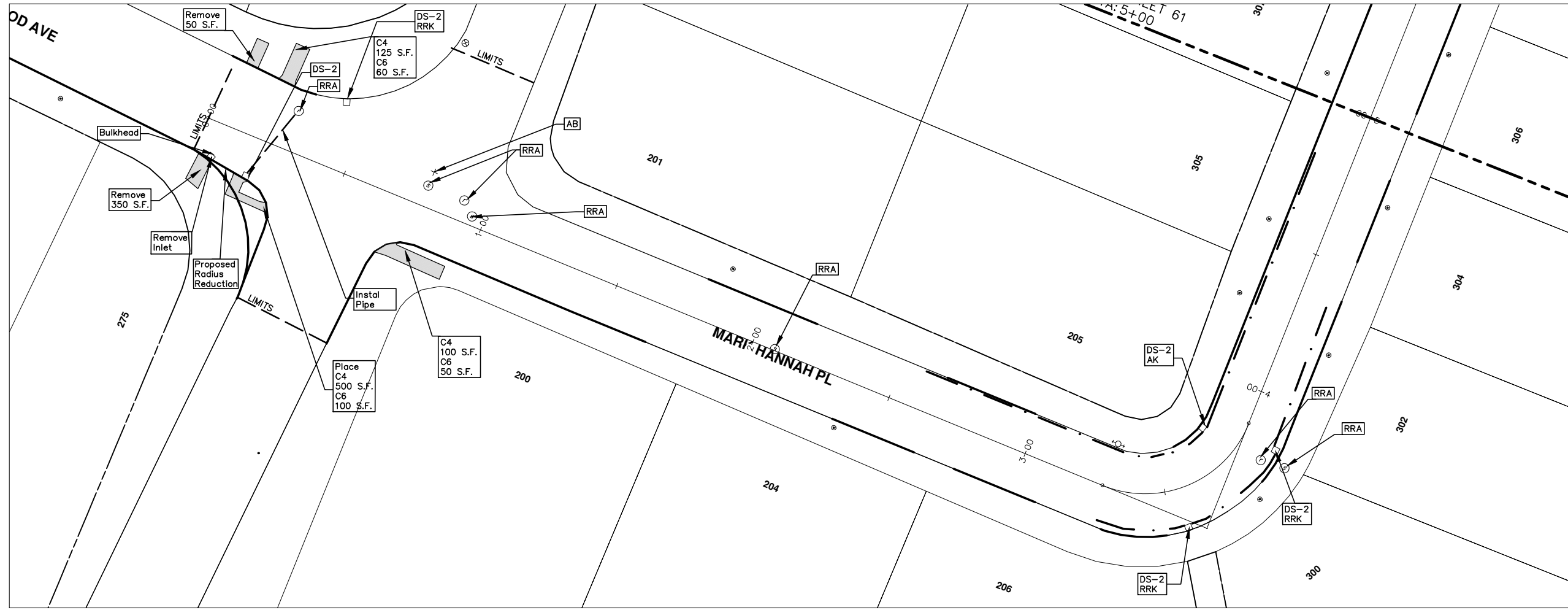
PROJECT DESCRIPTION

DRAWING No. 2013004 - 59

SHEET No.

59 OF 89

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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
MARK HANNAH
 CONSTRUCTION PLAN, PG 1 OF 3

SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-60

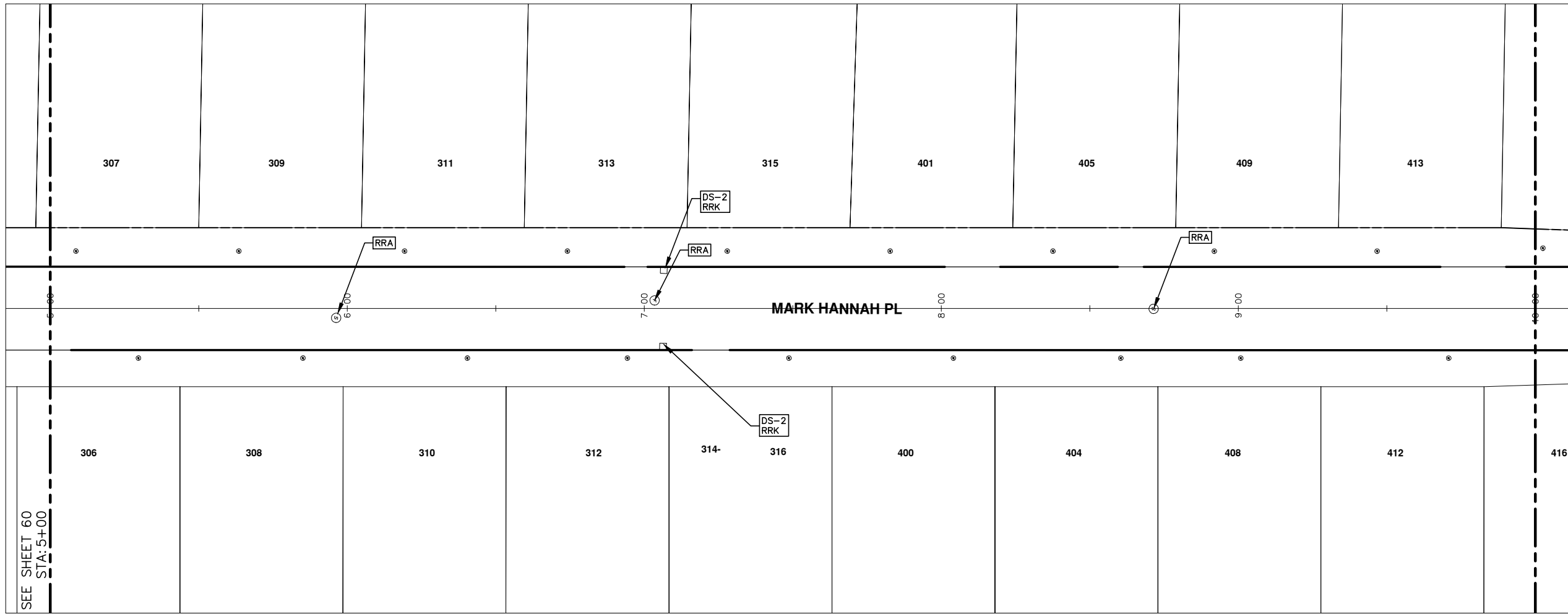
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SHEET No. **60 OF 89**



SEE SHEET 60
STA: 5+00

CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP, H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP, OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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



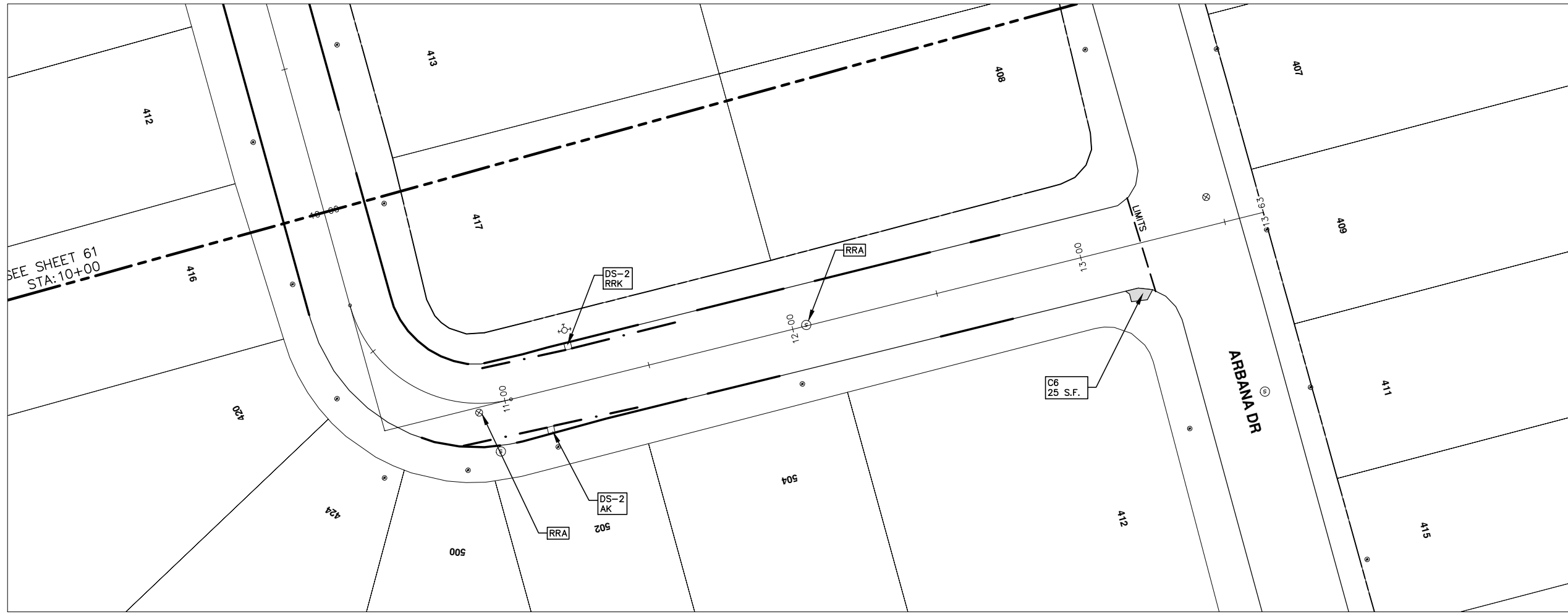
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
MARK HANNAH
CONSTRUCTION PLAN, PG 2 OF 3

SCALE PLAN: 1" = 20'
DRAWING No.
2013004-61



SEE SHEET 61
STA: 10+00

CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
MARK HANNAH
CONSTRUCTION PLAN, PG 3 OF 3

SCALE PLAN: 1" = 20'
DRAWING No. 2013004-62

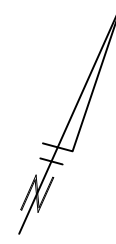
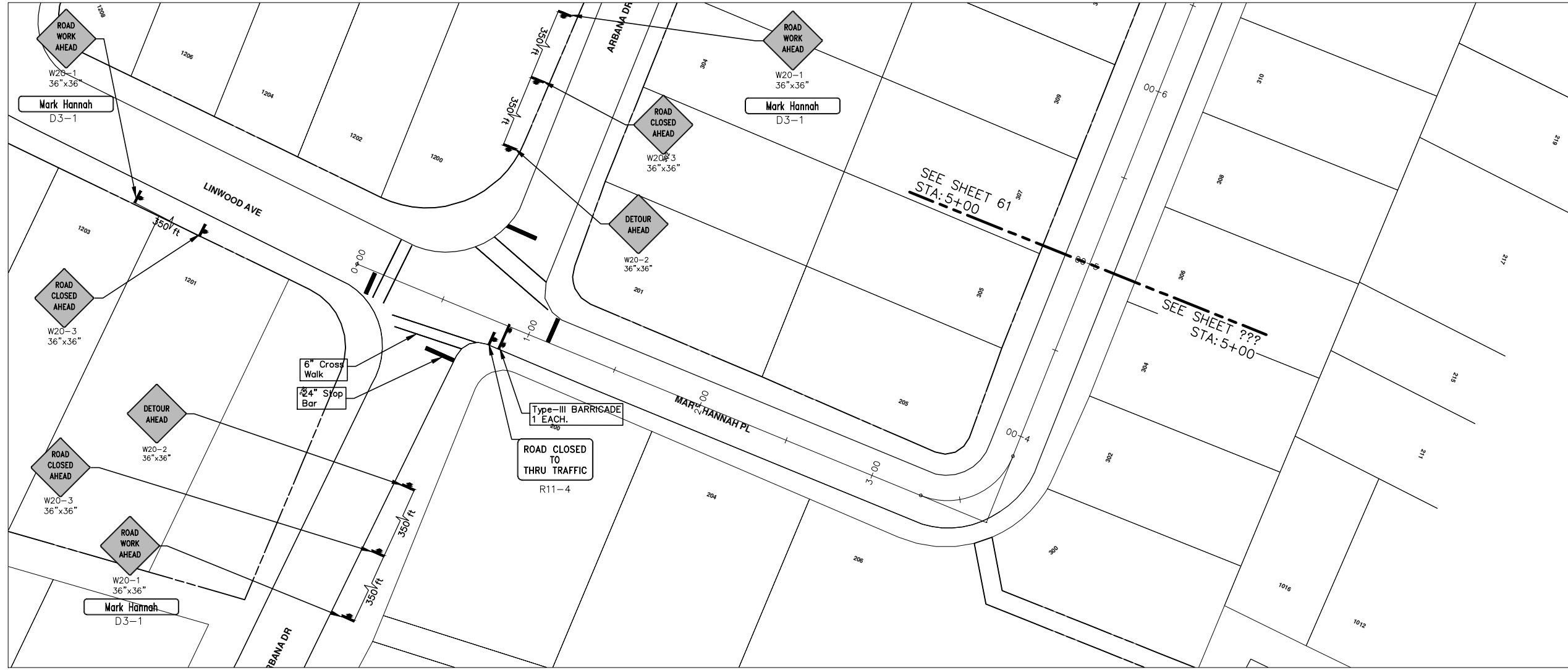
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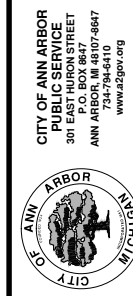


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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
 MARK HANNAH
 TRAFFIC CONTROL, PG 1 OF 2

SCALE PLAN: Custom
 DRAWING No. 2013004-63

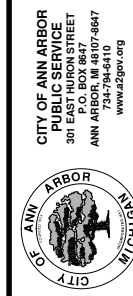
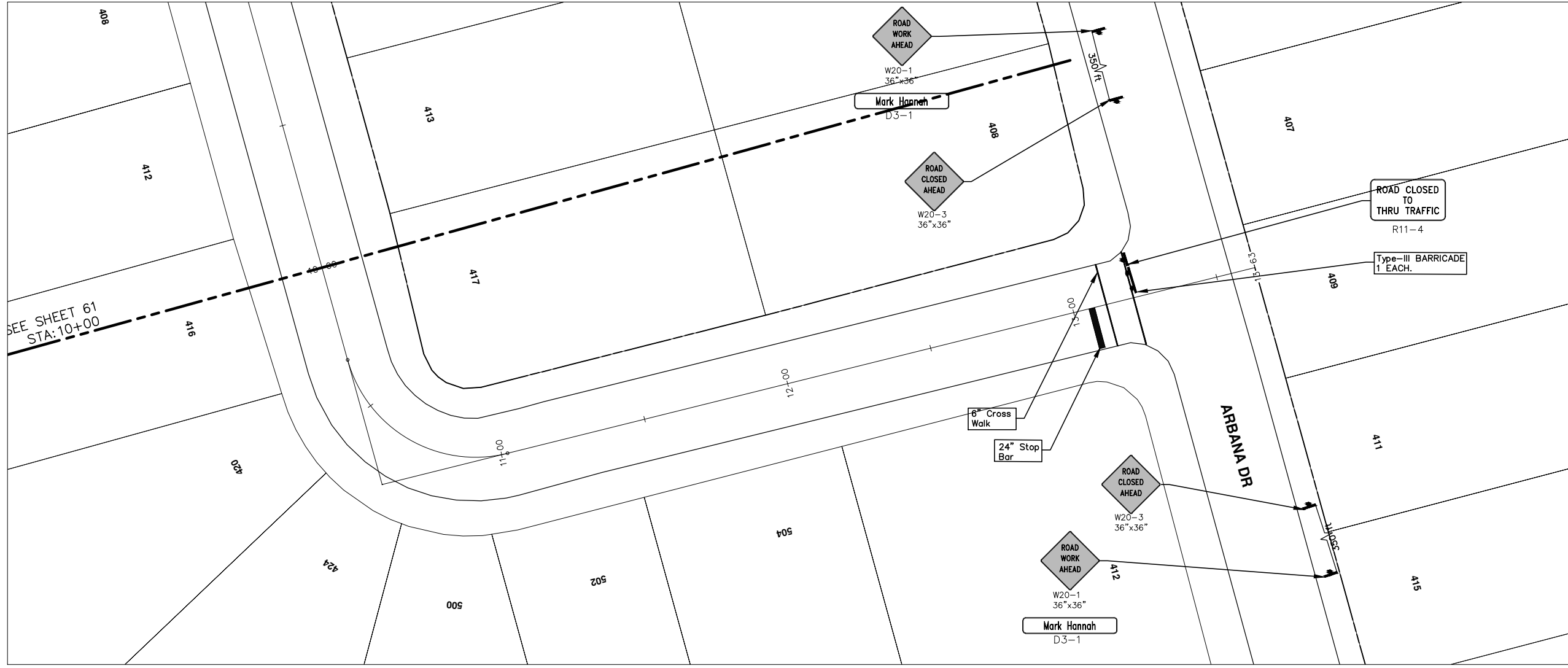


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CITY OF ANN ARBOR PROJECT MANAGEMENT 2013 ANNUAL RESURFACING PROGRAM

PROJECT LOCATION: ARBANA DRIVE

FILE No. 2013004-12

QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
207	Cold Mill Pavement	Tons	420
208	Curb Reveal	Tons	9
209	Subgrade Undercutting	C.Y.	150
221	Bit. Pvmnt. Finish Wedging	Tons	8
222	Bit. Pvmnt. Base/Leveling, Regular	Tons	250
223	Bit Pvmnt. Wearing, Regular	Tons	170
230	Remove Curb & Gutter	L.F.	480
232	Remove Conc. Sidewalk/Drive	S.F.	670
239	Conc. Curb & Gutter Machine	L.F.	481
240	4" Sidewalk Or Ramp	S.F.	470
241	6" Sidewalk & Drives	S.F.	110
245	Detectable Warning, Cast in Place	S.F.	20
250	2' Dia. Structure	Each	1
254	Lower Structures	Each	3
256	Adj. Structure Covers	Each	3
257	Adj. Curb Inlet Structure Cover	Each	2
259	Manhole Flange & Cover (A)	Each	1
264	12" Storm Sewer	L.F.	10
271	21AA Limestone, C.I.P.	C.Y.	150
282	Plastic Drum, Furn. & Operate	Each	30
283	Type 3 Barr.	Each	2
284	Temp Signs Type B	S.F.	170
285	No Parking Signs	Each	15
596	6" White Thermo.	L.F.	75
597	24" White Thermo.	L.F.	15

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
0	W20-1	"ROAD WORK AHEAD"
0	W20-2	"DETOUR AHEAD"
0	W20-3	"ROAD CLOSED AHEAD"
0	W20-5	"(RIGHT OR LEFT) LANE CLOSED AHEAD"
0	W4-2	LANE DROP SYMBOL, RIGHT OR LEFT
0	W20-1a	WORK SYMBOL
0	W1-4	REVERSE CURVE
0	W1-6	ONE DIRECTION ARROW
0	M4-9 L&R&S	DETOUR (LEFT, RIGHT, OR STRAIGHT ARROW)
0	D3-1	CONVENTIONAL GUIDE
0	M4-8a	"DETOUR ENDS"
0	M4-10	"DETOUR"
0	R6-1 L&R	"ONE WAY" (LEFT OR RIGHT)
0	TYPE III	TYPE III LIGHTED BARRICADE
0	TYPE II	TYPE II LIGHTED BARRICADE (DRUM)
0	R11-2	"ROAD CLOSED"
0	R11-4	"ROAD CLOSED TO THRU TRAFFIC"
0	TYPE A	LIGHTED ARROW, TYPE A
0	TYPE B	LIGHTED ARROW, TYPE B
0	R9-9	SIDEWALK CLOSED
0	R9-11	SIDEWALK CLOSED AHEAD CROSS HERE
0	R5-9	SIDEWALK CLOSED USE OTHER SIDE
0	G20-2	"END ROAD WORK"
0	R5-18b	"INJURE/KILL A WORKER \$7500+15 YEARS"
0	R5-18cLA	"WORK ZONE BEGINS/TRAFFIC FINES DOUBLED"
0	R3-1	NO RIGHT TURN
0	R3-2	NO LEFT TURN
0	SPECIAL	42"X48" SPECIAL SIGN
0	W20-5c	"CENTER LANE CLOSED AHEAD"
0	R2-1	SPEED LIMIT
0	TYPE C	LIGHTED ARROW, TYPE C
0	W3-5	REDUCED SPEED LIMIT AHEAD

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. COMPLETE CURB REVEAL FROM MARK HANNAH TO W HURON STREET. CURB TO BE REPLACED WILL BE ASSESSED BY THE ENGINEER AFTER THE CURB REVEAL.
4. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
5. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
6. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
7. MILL 5 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER.
8. UNDERCUT, GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. PAVE 3 INCHES OF THE BITUMINOUS MIX 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 2 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. COMPLETE ALL PAVEMENT MARKINGS.
14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND ITS DETAILS WHICH ARE INCLUDED BY REFERENCE. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 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 (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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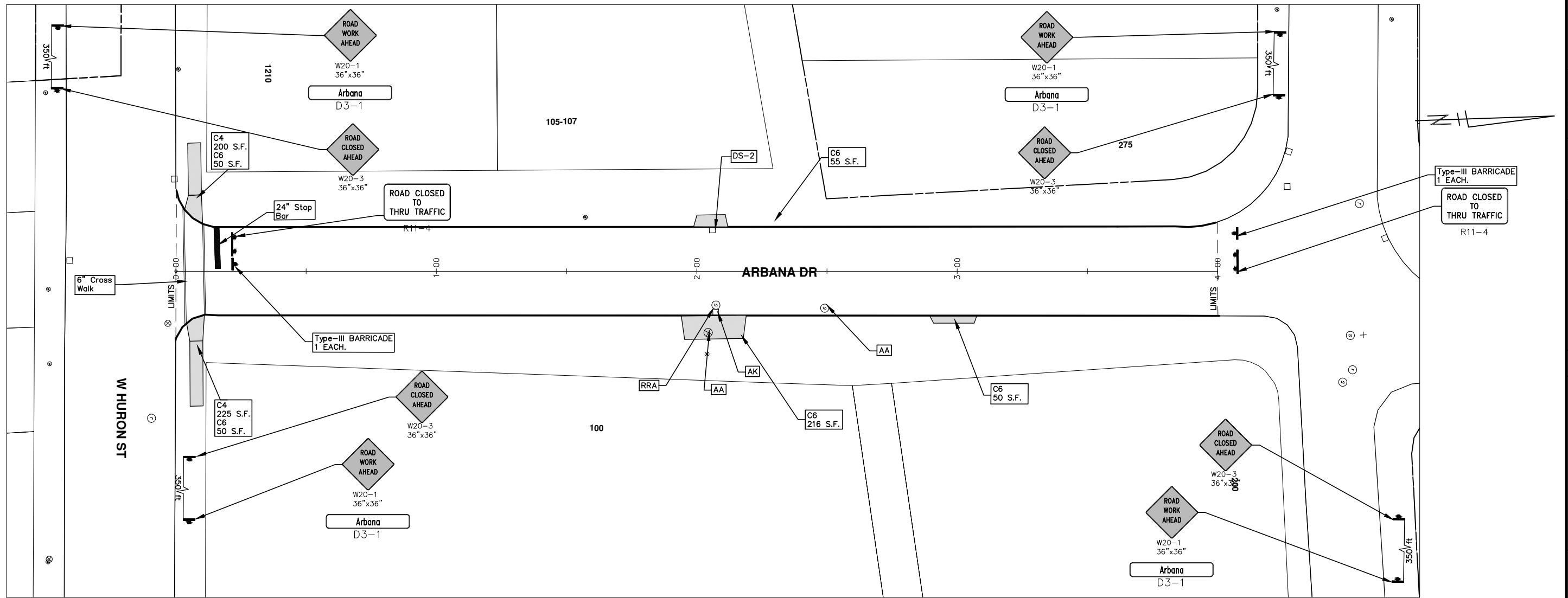
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STORM WATER FLOODPLAIN
SOIL EROSION
TRAFFIC
C.E.S. SUPERVISOR
FIELD OPERATIONS
REVIEW ENGINEER
SURVEY
C.E.S. REVIEW TEAM

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
PROJECT DESCRIPTION
PROJECT DESCRIPTION AND LIMITS
DRAWING No. 2013004 - 65

S:\Project Management\Design\2013004 Resurfacing\Plan Production\Arbana\2013004LA\Y-Arbana.dwg Dwg Created: 7-Sep-12 - _a2 standard bw.stb - Plot Date: 1-Feb-13



CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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



REV.	DESCRIPTION	DATE	BY	CHECKED



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
 ARBANA DRIVE
 CONSTRUCTION PLAN & TRAFFIC CONTROL

SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-66



CITY OF ANN ARBOR PROJECT MANAGEMENT 2013 ANNUAL RESURFACING PROGRAM

PROJECT LOCATION: BARTON DRIVE

FILE No. 2013004-13

QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
207	Cold Mill Pavement	Tons	3650
208	Curb Reveal	Tons	37
209	Subgrade Undercutting	C.Y.	1790
218	Stress Absorbing Membrane Interlayer	S.Y.	9228
221	Bit. Pvmnt. Finish Wedging	Tons	8
226	Bit. Pvmnt. Wearing, 5E3	Tons	1050
227	Bit. Pvmnt. Base or Leveling, 4E3	Tons	2610
230	Remove Curb & Gutter	L.F.	2240
232	Remove Conc. Pavement	S.F.	3940
237	Conc. Curb & Gutter	L.F.	1120
239	Conc. Curb & Gutter Machine	L.F.	1121
240	4" Sidewalk Or Ramp	S.F.	1160
241	6" Sidewalk & Drives	S.F.	2780
245	Detectable Warning, Cast in Place	S.F.	250
247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	20
250	2' Dia. Structure	Each	17
254	Lower Structures	Each	26
255	Lwr. Mon. + GV. Box	Each	11
256	Adj. Structure Covers	Each	26
257	Adj. Curb Inlet Structure Cover	Each	16
258	Adj. Mon. & GV. Box	Each	11
259	Manhole Flange & Cover (A)	Each	6
260	Inlet Structure Cover (K)	Each	3
264	12" Storm Sewer	L.F.	170
267	6" Wrapped Underdrain	L.F.	400
271	21AA Limestone, C.I.P.	C.Y.	1790
282	Plastic Drum, Furn. & Operate	Each	190
283	Type 3 Barr.	Each	3
284	Temp Signs Type B	S.F.	550
285	No Parking Signs	Each	6
286	Message Board, Furn.	Each	2
287	Message Board, Operate	Each	2
295	36" Tubular Markers, Furn. & Operate	Each	100
590	RR Symbol Thermo.	Each	1
594	4" White Thermo.	L.F.	400
595	4" Yellow Thermo.	L.F.	4600
596	6" White Thermo.	L.F.	275
597	24" White Thermo.	L.F.	75
598	Thermo. Pvmnt. Marking Symbol	Each	10

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
0	W20-1	"ROAD WORK AHEAD"
0	W20-2	"DETOUR AHEAD"
0	W20-3	"ROAD CLOSED AHEAD"
0	W20-5	"(RIGHT OR LEFT) LANE CLOSED AHEAD"
0	W4-2	LANE DROP SYMBOL, RIGHT OR LEFT
0	W20-1a	WORK SYMBOL
0	W1-4	REVERSE CURVE
0	W1-6	ONE DIRECTION ARROW
0	M4-9 L&R&S	DETOUR (LEFT, RIGHT, OR STRAIGHT ARROW)
0	D3-1	CONVENTIONAL GUIDE
0	M4-8a	"DETOUR ENDS"
0	M4-10	"DETOUR"
0	R6-1 L&R	"ONE WAY" (LEFT OR RIGHT)
0	TYPE III	TYPE III LIGHTED BARRICADE
0	TYPE II	TYPE II LIGHTED BARRICADE (DRUM)
0	R11-2	"ROAD CLOSED"
0	R11-4	"ROAD CLOSED TO THRU TRAFFIC"
0	TYPE A	LIGHTED ARROW, TYPE A
0	TYPE B	LIGHTED ARROW, TYPE B
0	R9-9	SIDEWALK CLOSED
0	R9-11	SIDEWALK CLOSED AHEAD CROSS HERE
0	R5-9	SIDEWALK CLOSED USE OTHER SIDE
0	G20-2	"END ROAD WORK"
0	R5-18b	"INJURE/KILL A WORKER \$7500+15 YEARS"
0	R5-18cLA	"WORK ZONE BEGINS/TRAFFIC FINES DOUBLED"
0	R3-1	NO RIGHT TURN
0	R3-2	NO LEFT TURN
0	SPECIAL	42"X48" SPECIAL SIGN
0	W20-5c	"CENTER LANE CLOSED AHEAD"
0	R2-1	SPEED LIMIT
0	TYPE C	LIGHTED ARROW, TYPE C
0	W3-5	REDUCED SPEED LIMIT AHEAD

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. COMPLETE CURB REVEAL FROM PONTIAC TR TO TRAVER. CURB TO BE REPLACED WILL BE ASSESSED BY THE ENGINEER AFTER THE CURB REVEAL.
4. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
5. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
6. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
7. MILL 5 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER.
8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. PAVE 3 INCHES OF THE BITUMINOUS MIX 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 2 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. COMPLETE ALL PAVEMENT MARKINGS.
14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND ITS DETAILS WHICH ARE INCLUDED BY REFERENCE. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 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 (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) 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.



PROJECT MANAGEMENT SERVICE UNIT

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



STORM WATER FLOODPLAIN

SOIL EROSION

TRAFFIC

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

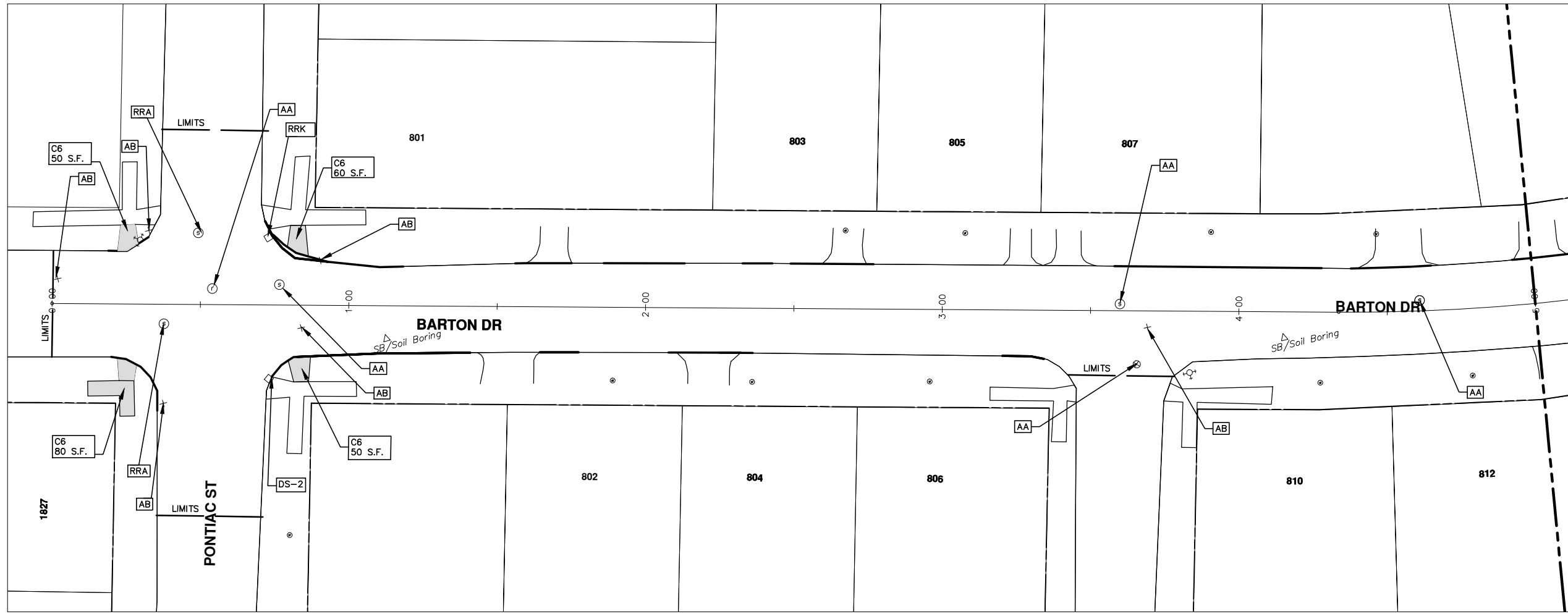
PROJECT DESCRIPTION AND LIMITS

DRAWING No. 2013004 - 67

SHEET No.

67 OF 89

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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
 BARTON DRIVE
 CONSTRUCTION PLAN, PG 1 OF 5

SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-68

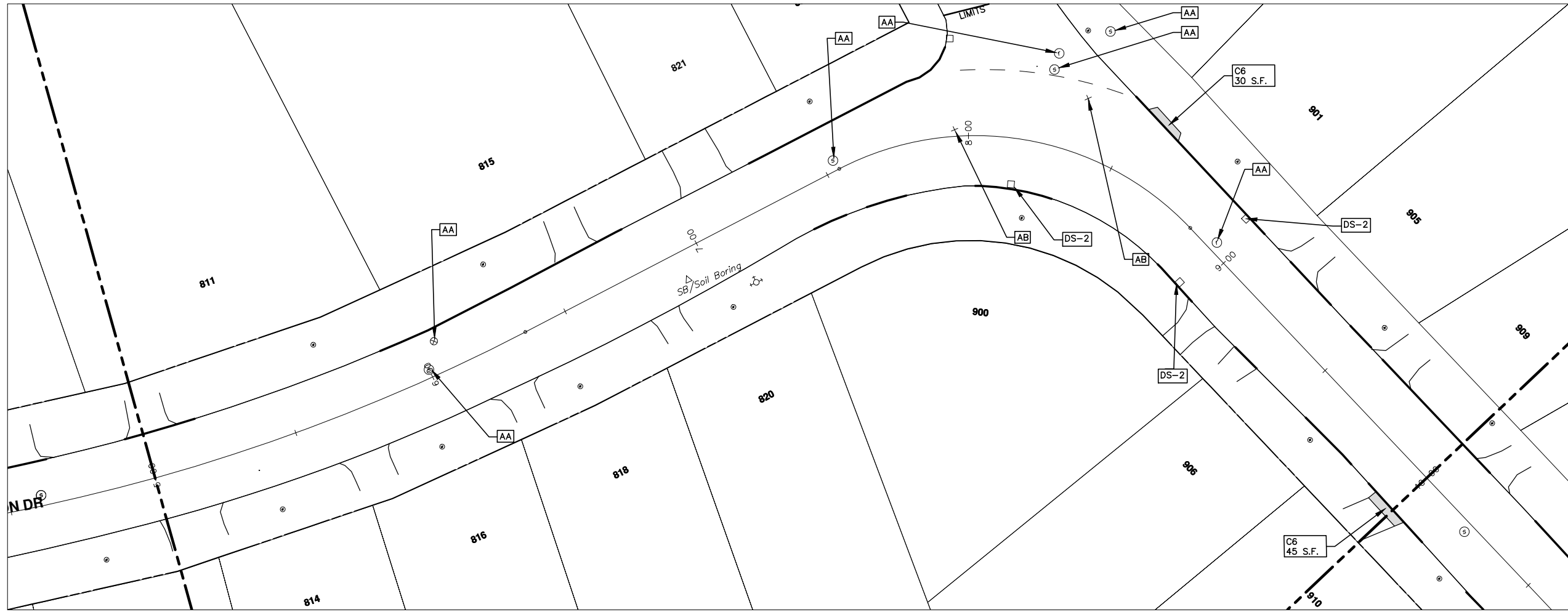
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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
 BARTON DRIVE
 CONSTRUCTION PLAN, PG 2 OF 5

SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-69

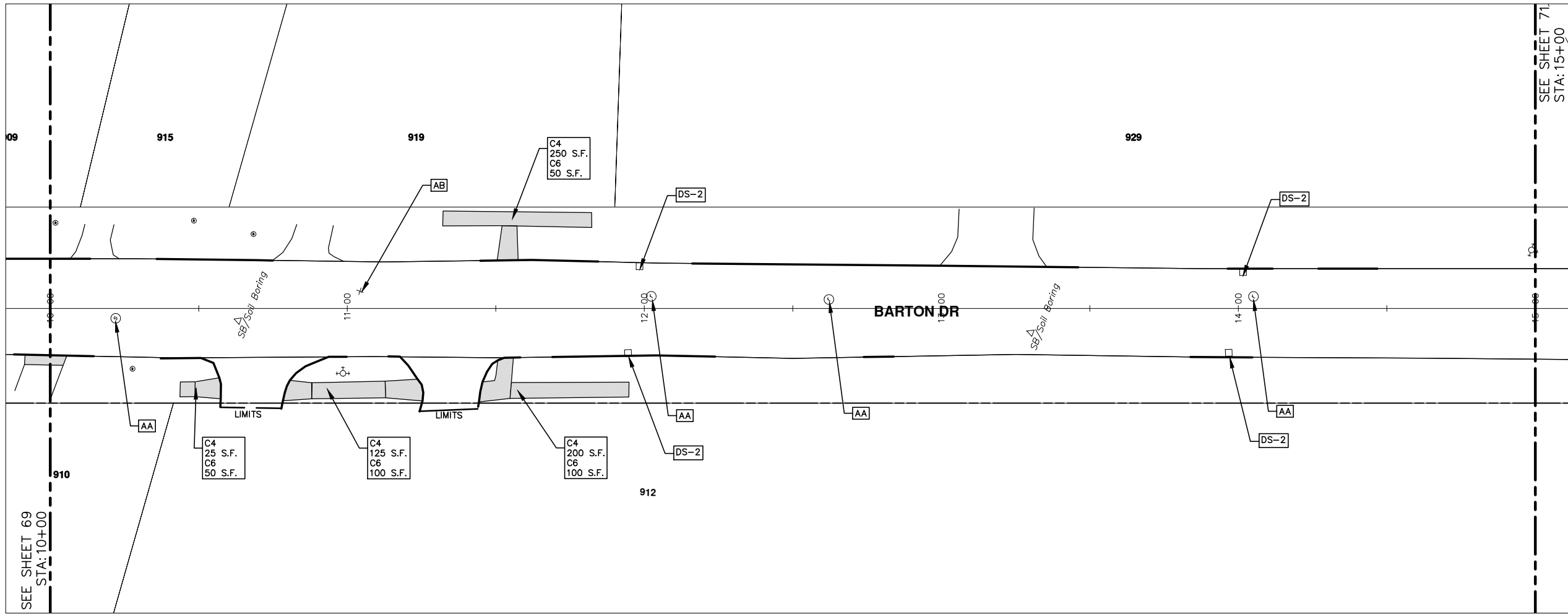
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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
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CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
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LEGEND	
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⊕	SOIL BORING
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⊕	MONUMENT BOX
[Pattern]	REMOVE AND REPLACE CONC. SIDEWALK
[Pattern]	PLACE CONCRETE SIDEWALK
[Pattern]	REMOVE & REPLACE CONC. CURB & GUTTER
[Pattern]	CONSTRUCTION LIMITS
[Pattern]	6" WRAPPED UNDERDRAIN
[Pattern]	REMOVE CONCRETE SIDEWALK
[Pattern]	SUBGRADE UNDERCUT

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
BARTON DRIVE
CONSTRUCTION PLAN, PG 3 OF 5

SCALE PLAN: 1" = 20'
DRAWING No.
2013004-70

SHEET No.
70 OF 89

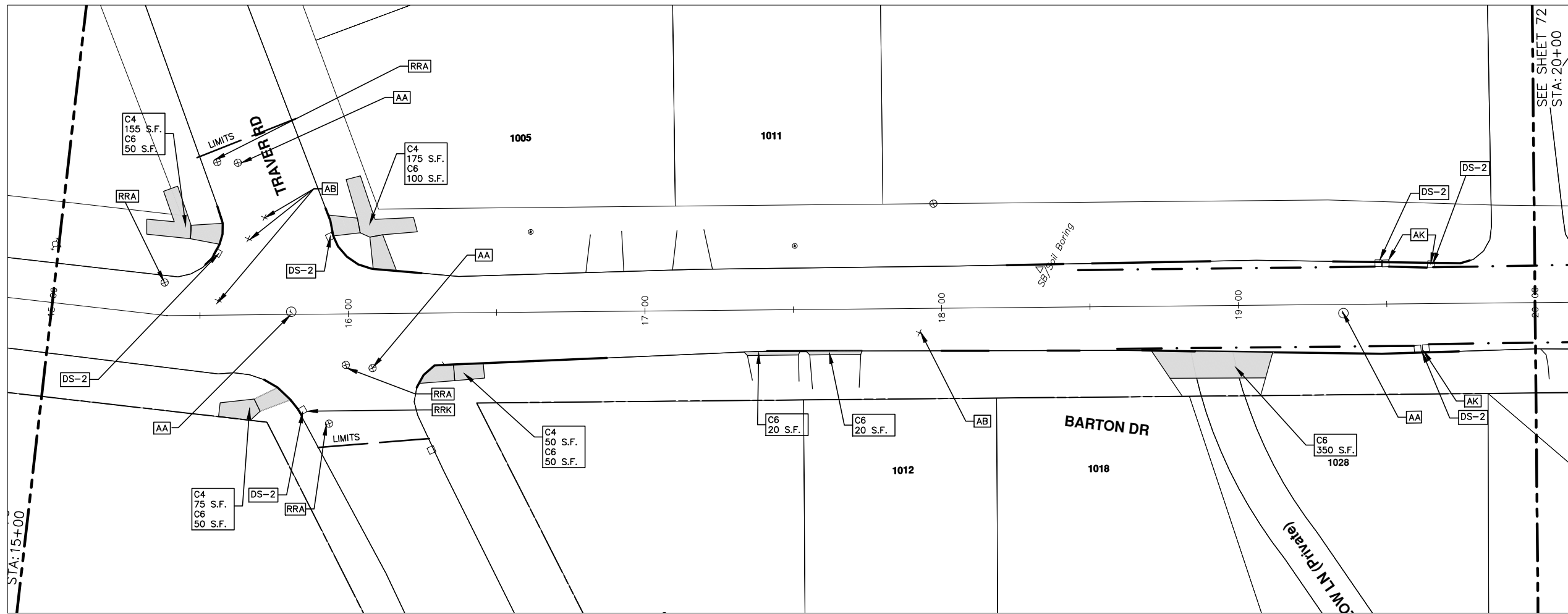
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CONSTRUCTION KEY	
KEY	DESCRIPTION
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C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
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C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
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RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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
[Hatched Box]	REMOVE AND REPLACE CONC. SIDEWALK
[Stippled Box]	PLACE CONCRETE SIDEWALK
[Double Line]	REMOVE & REPLACE CONC. CURB & GUTTER
[Dashed Line]	CONSTRUCTION LIMITS
[Dotted Line]	6" WRAPPED UNDERDRAIN
[Hatched Box]	REMOVE CONCRETE SIDEWALK
[Shaded Box]	SUBGRADE UNDERCUT

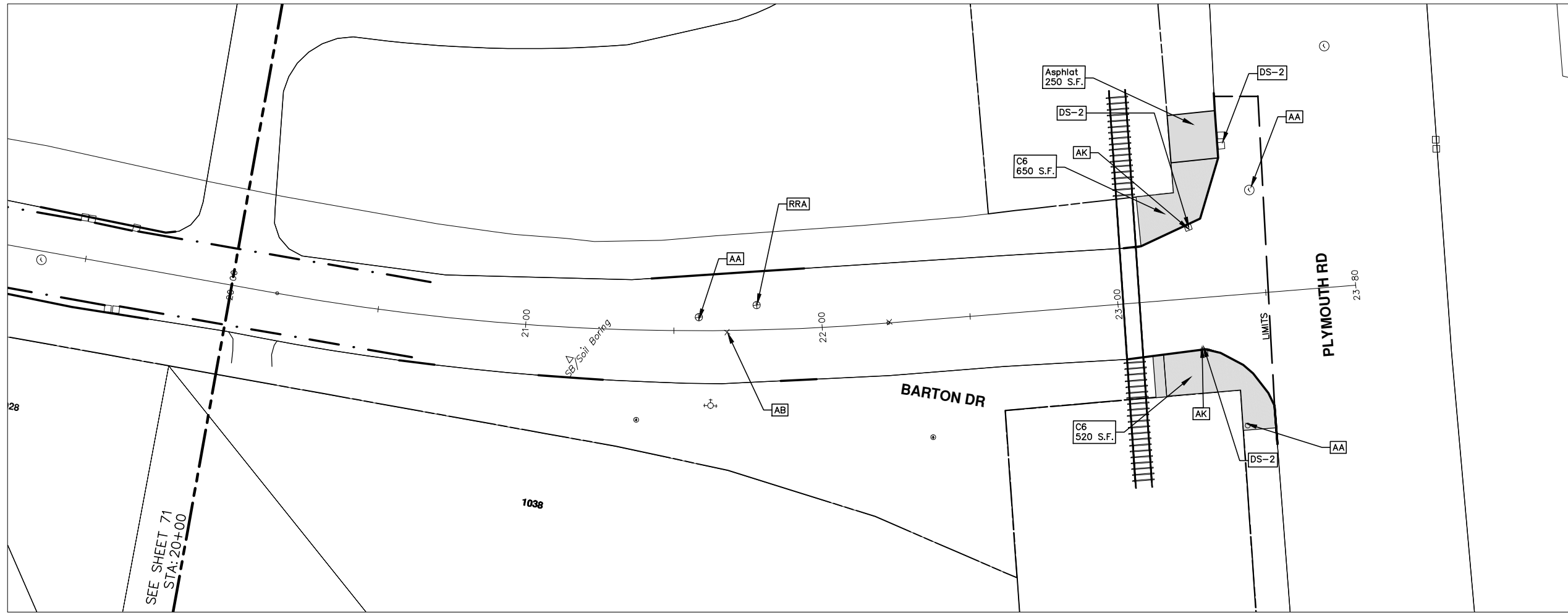


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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
BARTON DRIVE
CONSTRUCTION PLAN, PG 4 OF 5
SCALE PLAN: 1" = 20'
DRAWING No. 2013004-71

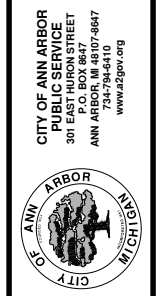
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SEE SHEET 71
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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

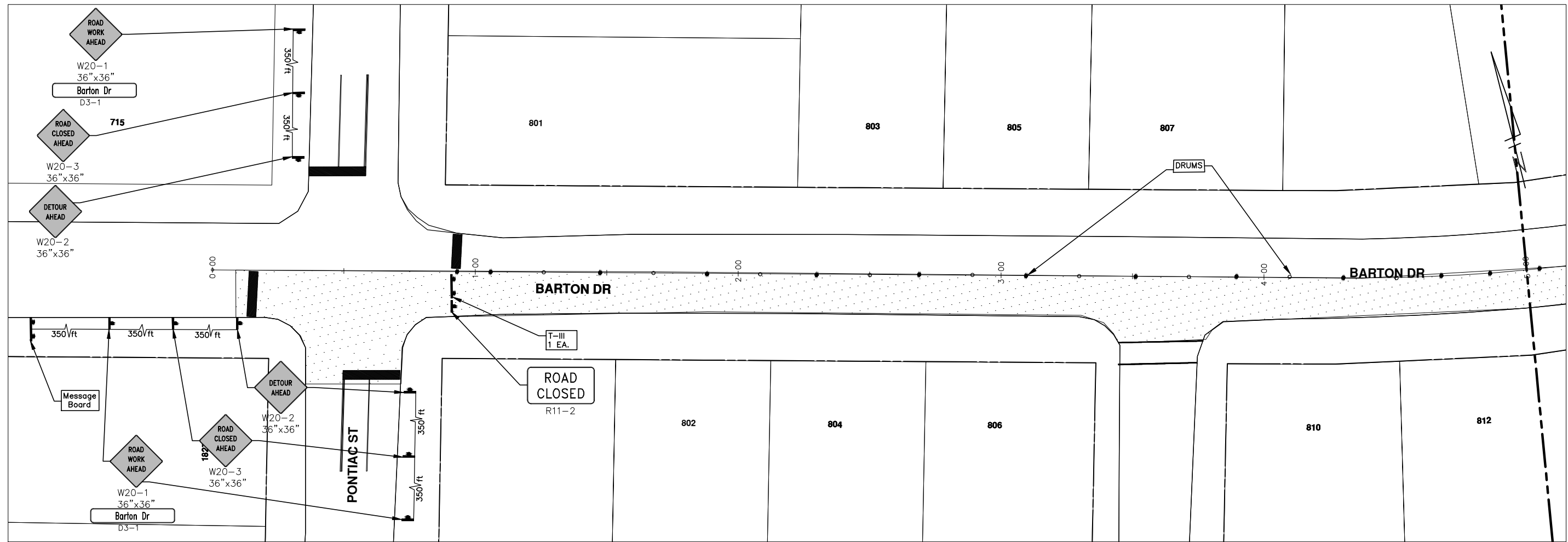
LEGEND	
SYMBOL	DESCRIPTION
⊕	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕*	FIRE HYDRANT
⊕	MICHCON GAS CO. VALVE BOX,WELL
⊕	AMERITECH TELEPHONE VAULT
⊕	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊕	MONUMENT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



REV.	DESCRIPTION	DATE	DATE	BY	CHECKED



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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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



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2013 ANNUAL RESURFACING PROGRAM
BARTON DRIVE

TRAFFIC CONTROL PHASE I, PG 1 OF 5

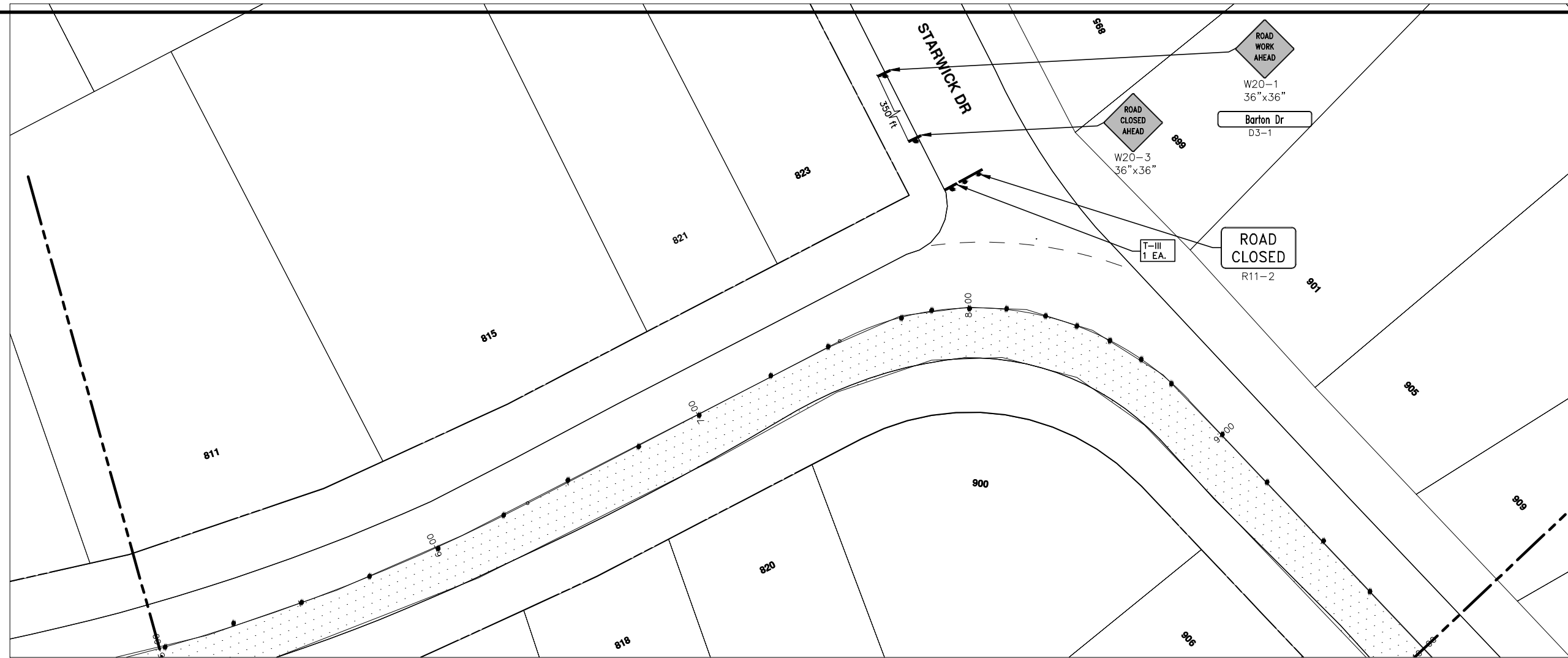
SCALE PLAN: 1" = 20'
DRAWING No. 2013004-73

SHEET No.

73 OF 89

REV.	DESCRIPTION	DATE	BY	CHECKED

S:\Project Management\Design\2013004 Resurfacing\Plan Production\Barton Drive\2013004TRF-PHASE 1 -Barton Drive.dwg Dwg Created: 3-Jan-13 - _a2 standard bw.stb - Plot Date: 1-Feb-13



CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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



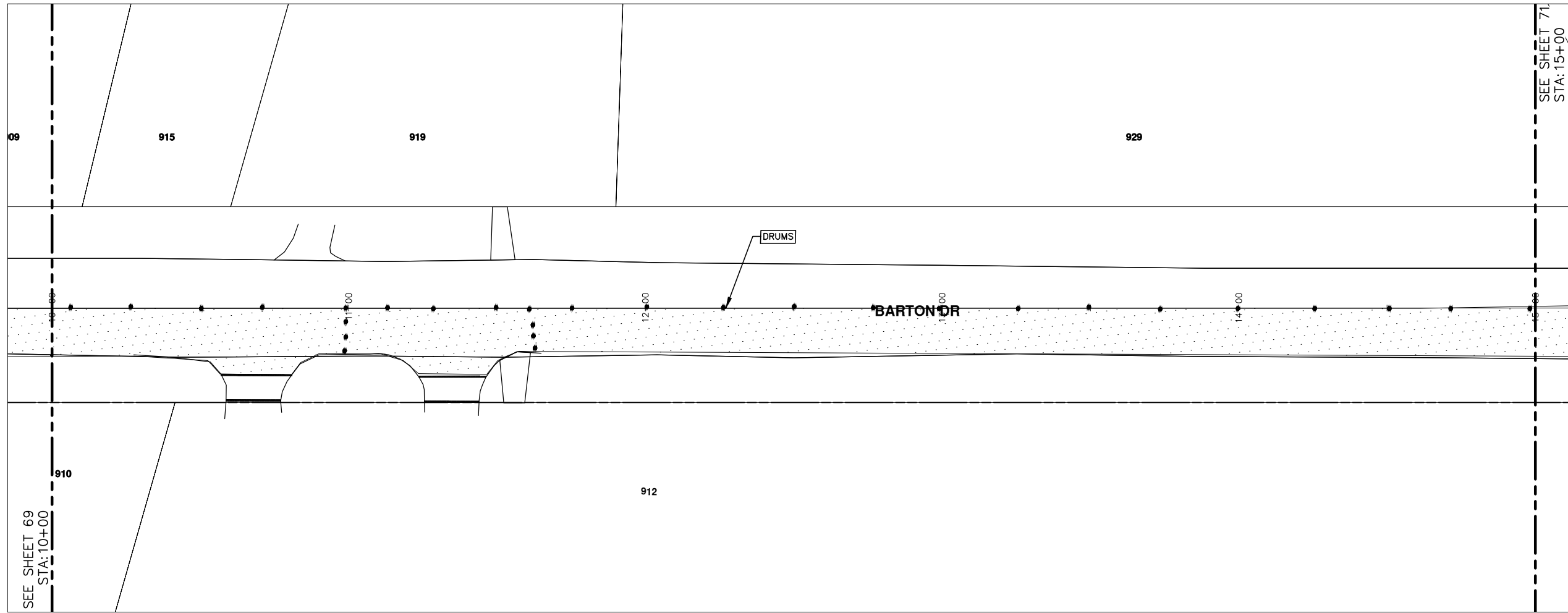
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BARTON DRIVE
TRAFFIC CONTROL PHASE I, PG 2 OF 5

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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT -- ANY THICKNESS
RCW	RAISED CROSSWALK

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



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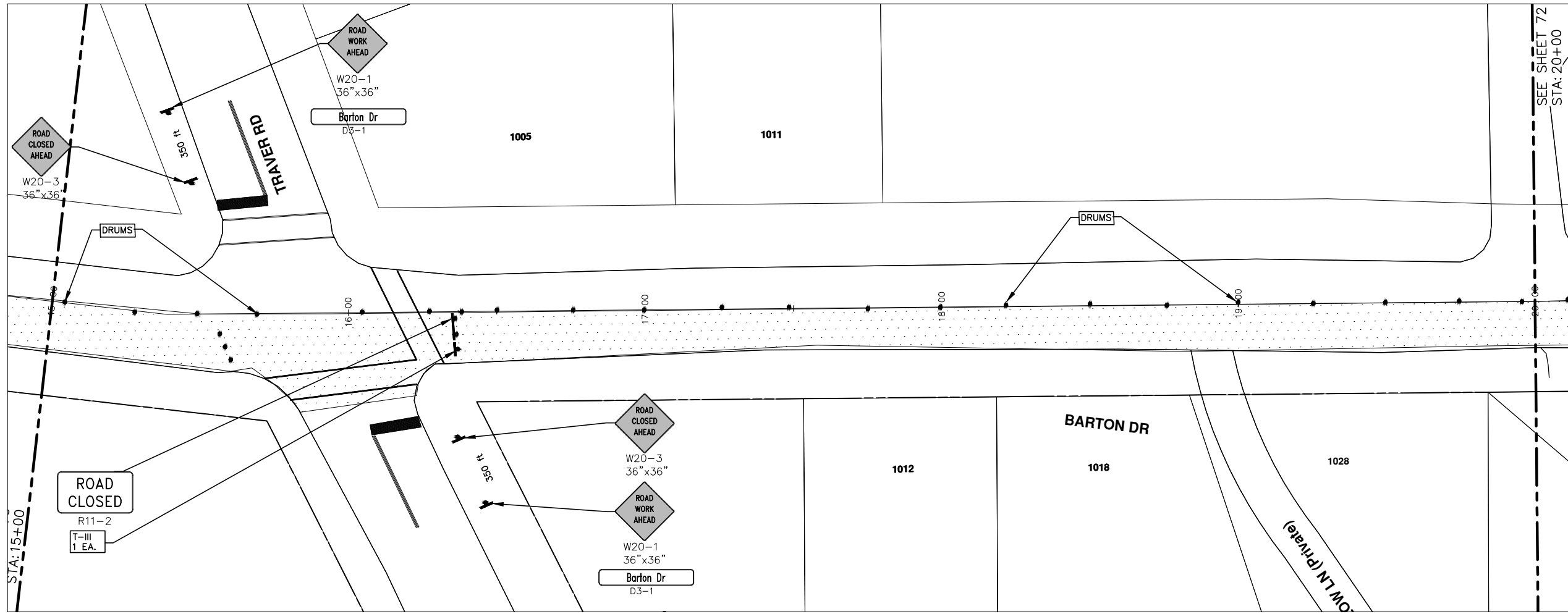
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
BARTON DRIVE
TRAFFIC CONTROL PHASE I, PG 3 OF 5

SCALE PLAN: 1" = 20'
DRAWING No.
2013004-75

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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
 BARTON DRIVE
 TRAFFIC CONTROL PHASE I, PG 4 OF 5

SCALE PLAN: 1" = 20'
 DRAWING No. 2013004-76

SHEET No. 76 OF 89

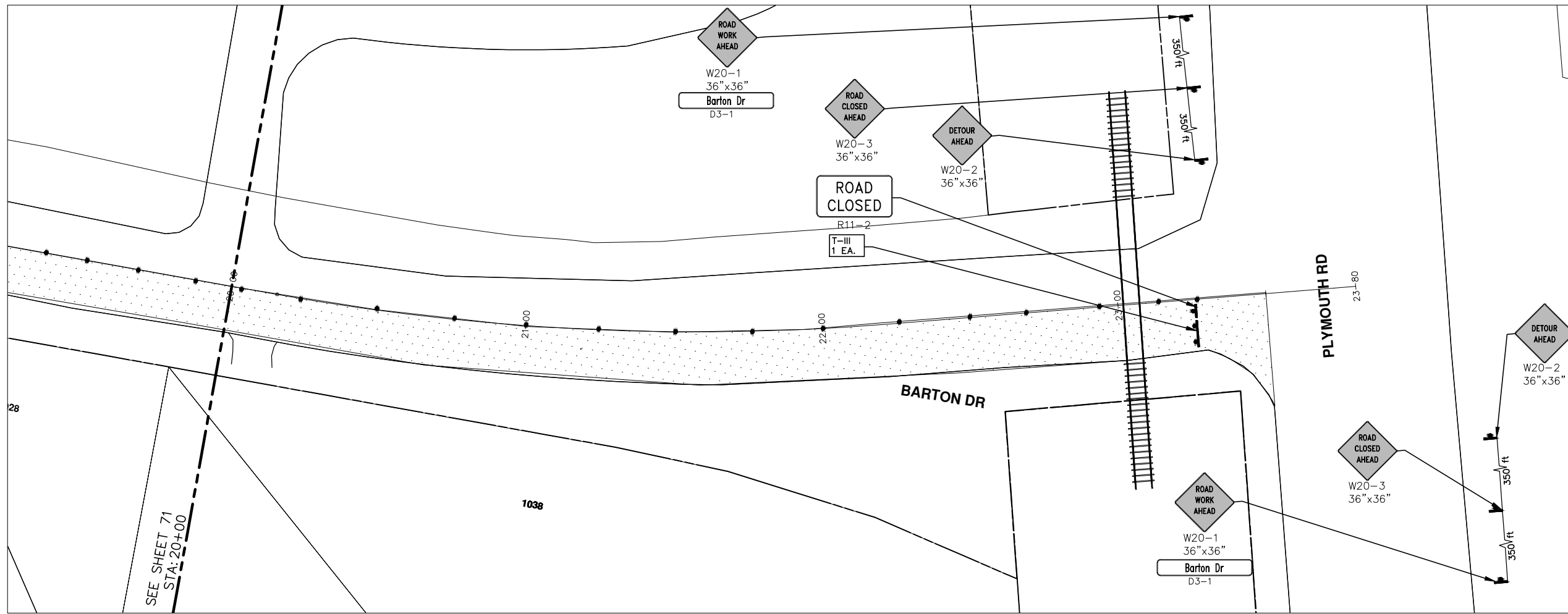


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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 BARTON DRIVE

SCALE PLAN: 1" = 20'

DRAWING No.
 2013004-77

SHEET No.

77 OF 89



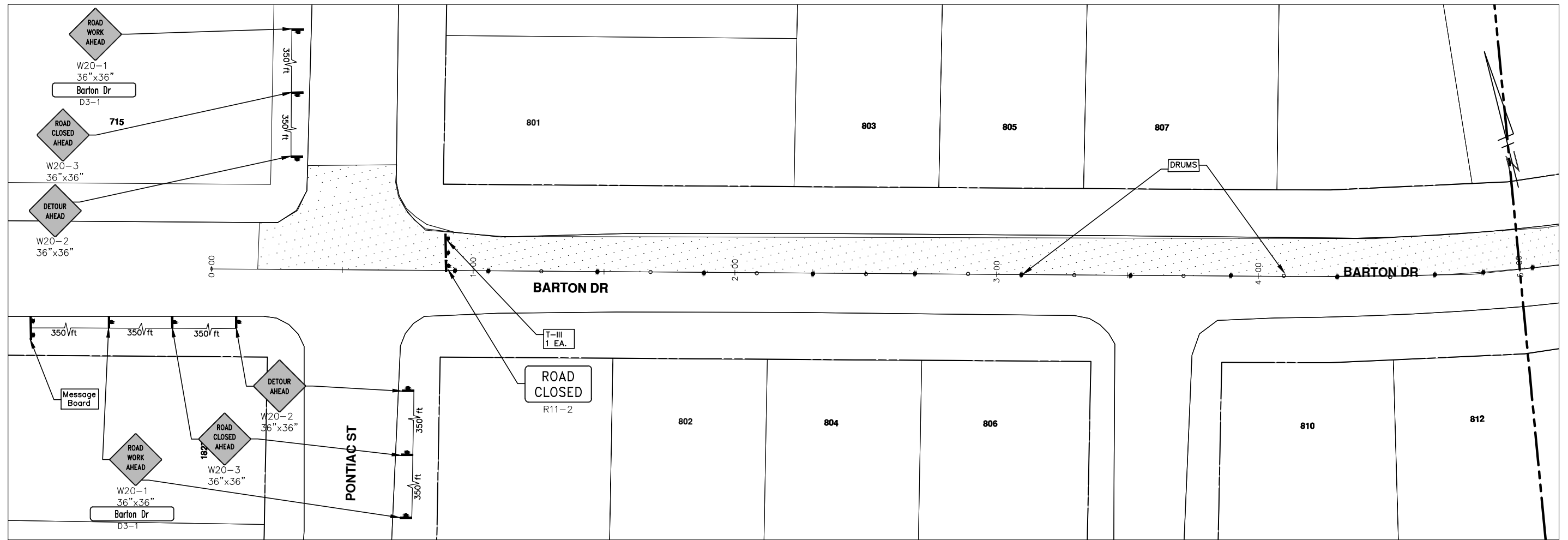
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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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



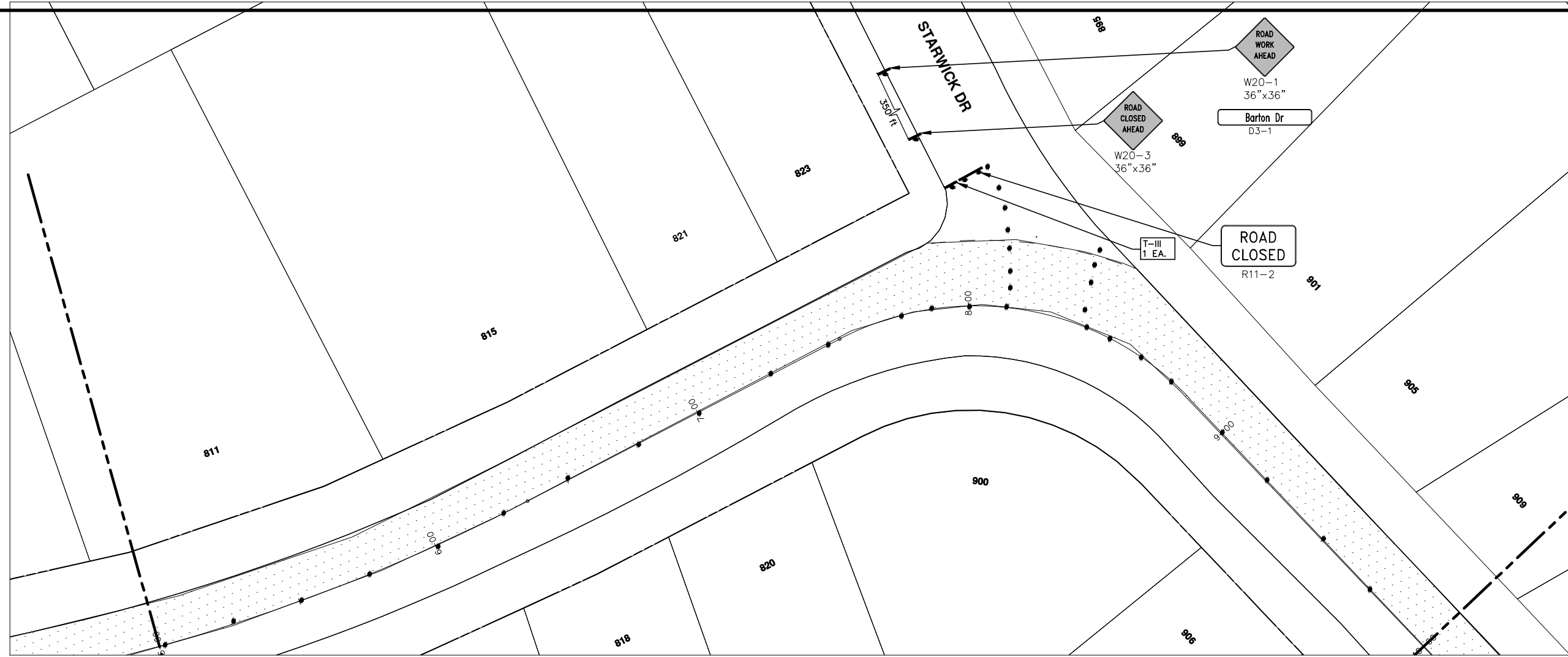
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BARTON DRIVE
TRAFFIC CONTROL, PHASE II, PG 1 OF 5
SCALE PLAN: 1" = 20'
DRAWING No. 2013004-78

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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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



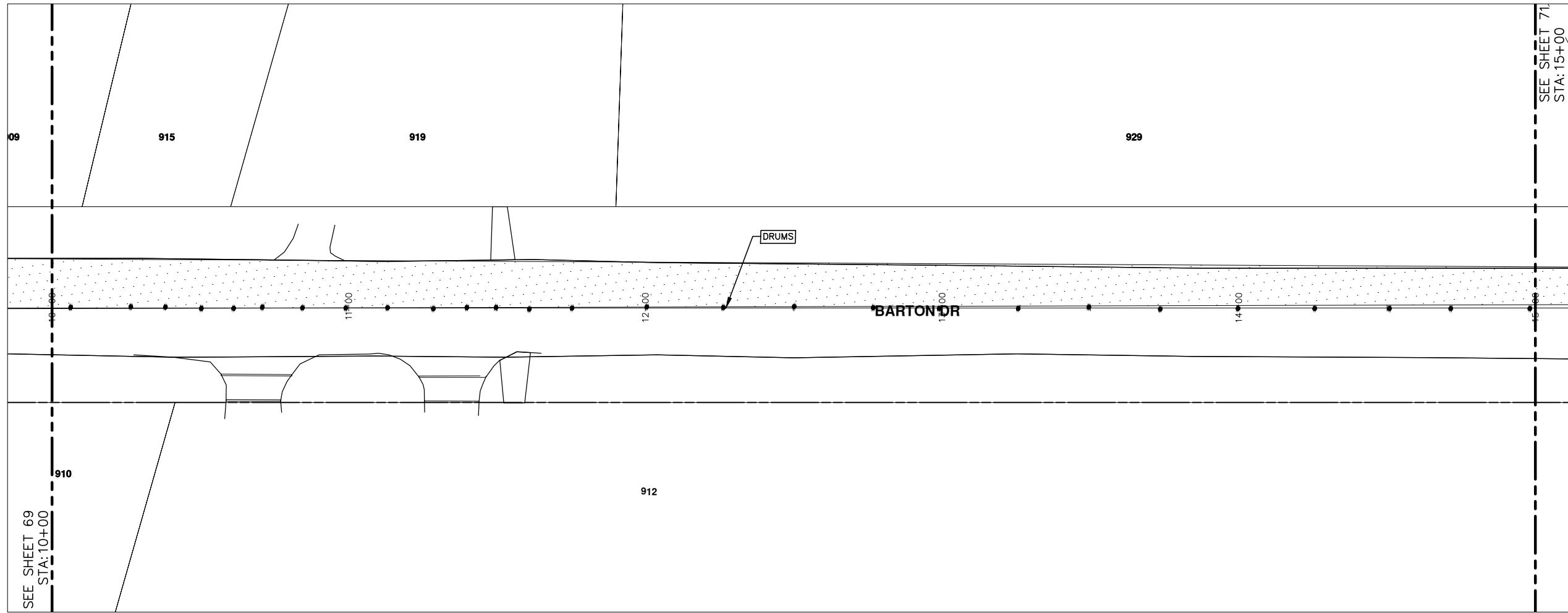
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
BARTON DRIVE
TRAFFIC CONTROL, PHASE II, PG 2 OF 5

SCALE PLAN: 1" = 20'
DRAWING No. 2013004-79



SEE SHEET 71
STA: 15+00

SEE SHEET 69
STA: 10+00

CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT -- ANY THICKNESS
RCW	RAISED CROSSWALK

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



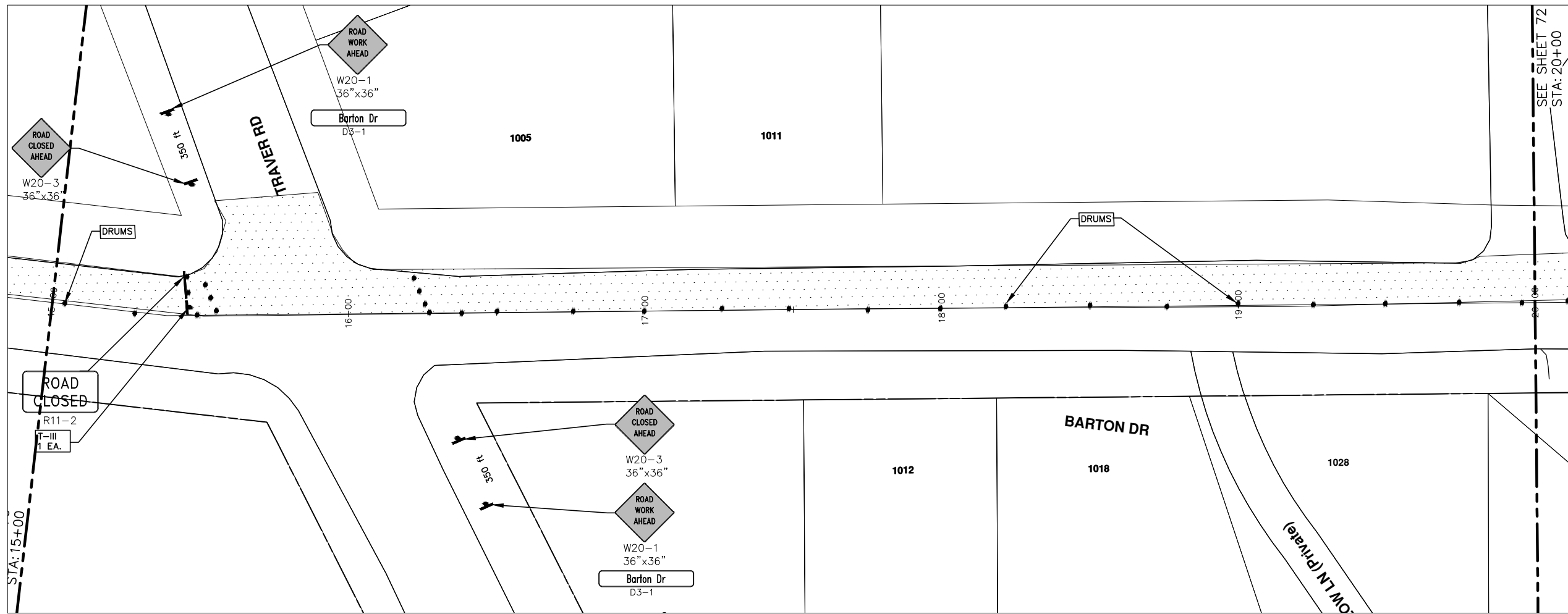
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
BARTON DRIVE
TRAFFIC CONTROL, PHASE II, PG. 3 OF 5

S:\Project Management\Design\2013004 Resurfacing\Plan Production\Barton Drive\2013004TRF-PHASE II -Barton Drive.dwg Dwg Created: 1-Feb-13 - _02 standard bw.stb - Plot Date: 1-Feb-13



CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 2013 ANNUAL RESURFACING PROGRAM
 BARTON DRIVE

SCALE PLAN: 1" = 20'

DRAWING No.
 2013004-81

SHEET No.

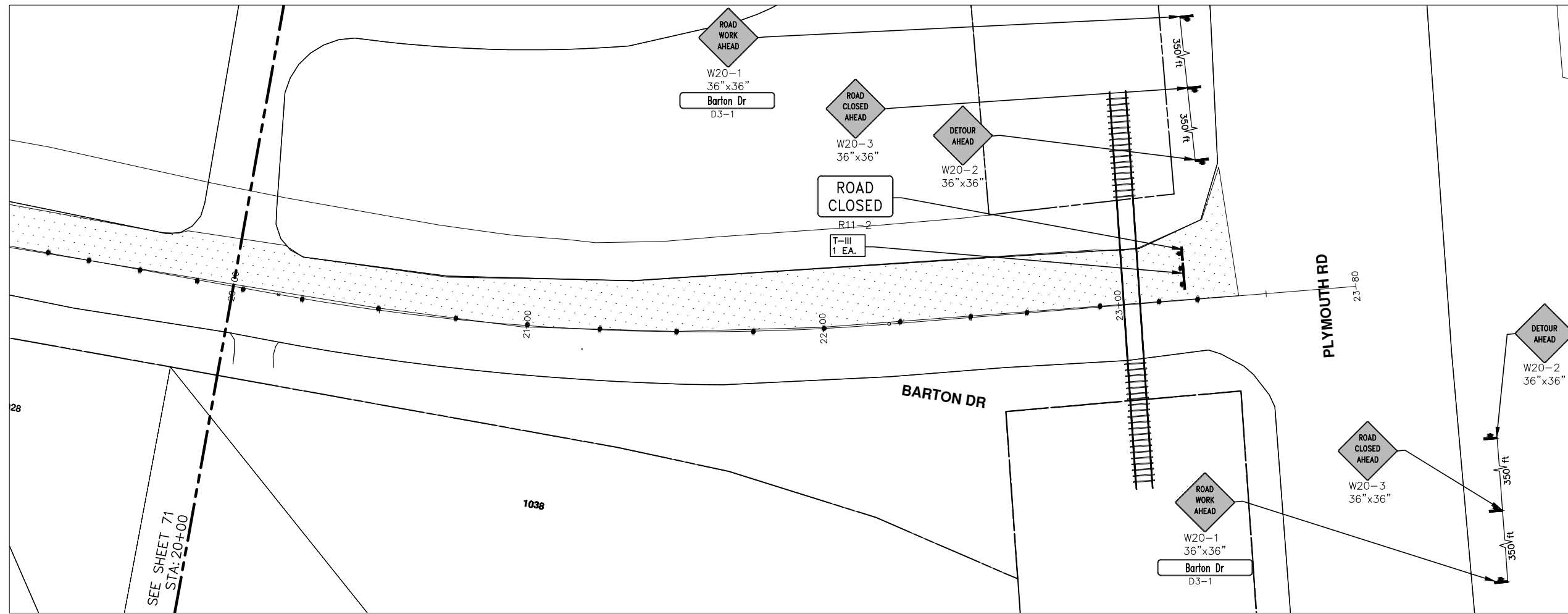
81 OF 89



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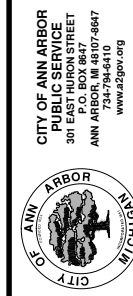
811
 Know what's below.
 Call Before you dig.



SEE SHEET 71
STA: 20+00

CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
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C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

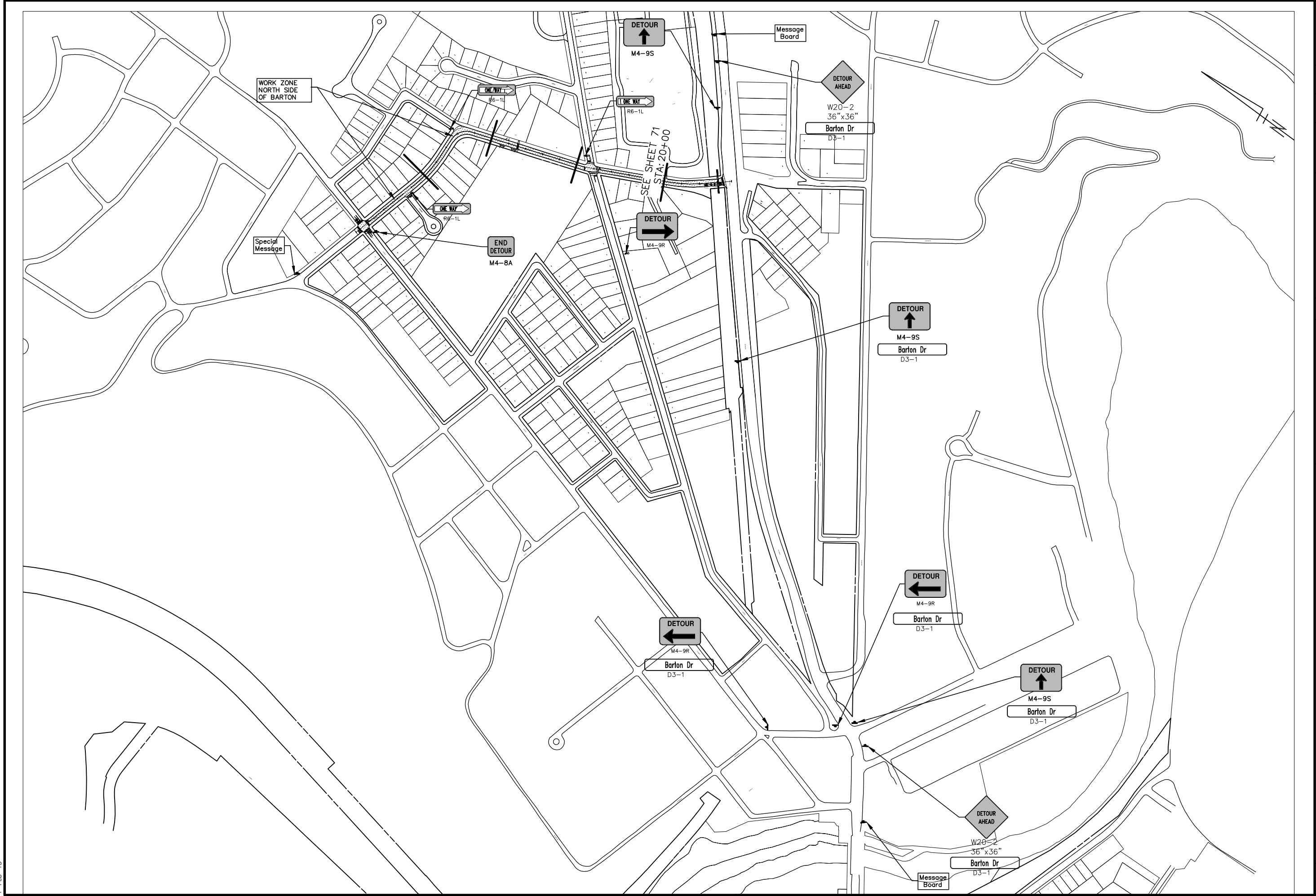
LEGEND	
SYMBOL	DESCRIPTION
⊕	EXISTING SANITARY SEWER MANHOLE
⊖	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕*	FIRE HYDRANT
⊕	MICHCON GAS CO. VALVE BOX,WELL
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⊕	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
□	MONUMENT BOX
[Pattern]	REMOVE AND REPLACE CONC. SIDEWALK
[Pattern]	PLACE CONCRETE SIDEWALK
[Line]	REMOVE & REPLACE CONC. CURB & GUTTER
[Line]	CONSTRUCTION LIMITS
[Line]	6" WRAPPED UNDERDRAIN
[Pattern]	REMOVE CONCRETE SIDEWALK
[Pattern]	SUBGRADE UNDERCUT





REV.	DESCRIPTION	DATE	DRAWN BY	CHECKED
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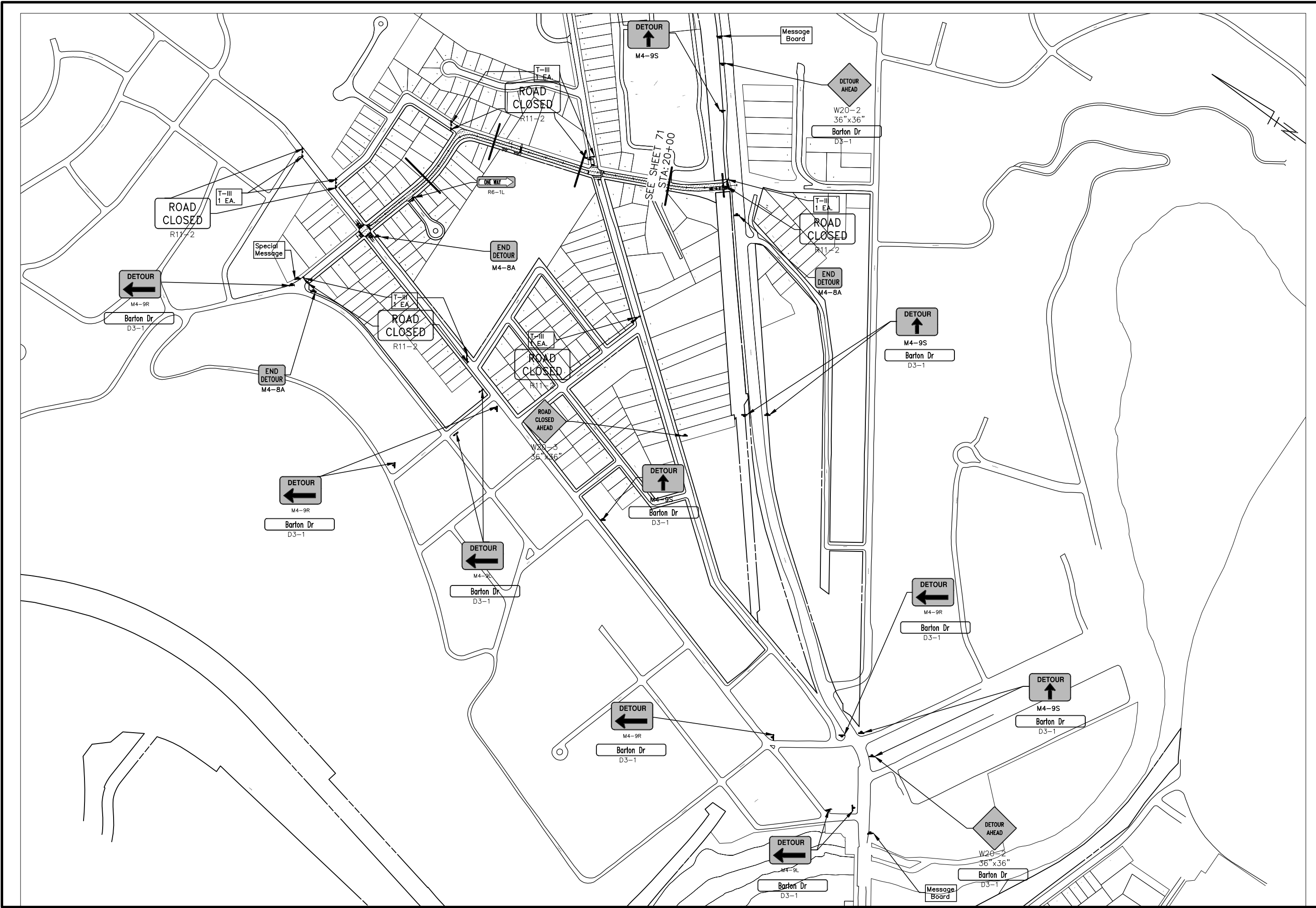


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<p>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR 2013 ANNUAL RESURFACING PROGRAM BARTON DRIVE</p>		<table border="1"> <thead> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>CHECKED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV.	DESCRIPTION	DATE	BY	CHECKED															
REV.	DESCRIPTION	DATE	BY	CHECKED																		
<p>SCALE PLAN: Custom</p>  <p>DRAWING No. 2013004-63</p>		<p>DETOUR DETAIL FOR PHASE I & II</p>																				
<p>SHEET No. 83 OF 89</p>																						

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
 BARTON DRIVE
 DETOUR DETAIL FOR PAVING CLOSURE

SCALE PLAN: Custom
 DRAWING No. 2013004-64
 SHEET No. 84 OF 89

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CITY OF ANN ARBOR PROJECT MANAGEMENT 2013 ANNUAL RESURFACING PROGRAM

PROJECT LOCATION: BIRCH HOLLOW

FILE No. 2013004-14

QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
207	Cold Mill Pavement	Tons	1350
209	Subgrade Undercutting	C.Y.	470
222	Bit. Pvmnt. Base/Leveling, Regular	Tons	810
223	Bit Pvmnt. Wearing, Regular	Tons	540
230	Remove Curb & Gutter	L.F.	1870
232	Remove Conc. Sidewalk/Drive	S.F.	1141
237	Conc. Curb & Gutter	L.F.	1570
240	4" Sidewalk Or Ramp	S.F.	1001
241	6" Sidewalk & Drives	S.F.	930
245	Detectable Warning, Cast in Place	S.F.	140
249	Flat Inlet Structure Cover	Each	1
250	2' Dia. Structure	Each	8
252	Reconstruct Structure	Each	1
254	Lower Structures	Each	17
255	Lwr. Mon. + GV. Box	Each	1
256	Adj. Structure Covers	Each	19
257	Adj. Curb Inlet Structure Cover	Each	9
258	Adj. Mon. & GV. Box	Each	1
259	Manhole Flange & Cover (A)	Each	17
260	Inlet Structure Cover (K)	Each	4
264	12" Storm Sewer	L.F.	80
267	6" Wrapped Underdrain	L.F.	800
271	21AA Limestone, C.I.P.	C.Y.	470
281	Arrow Panel, Furn. & Operate	Each	1
282	Plastic Drum, Furn. & Operate	Each	160
283	Type 3 Barr.	Each	3
284	Temp Signs Type B	S.F.	250
285	No Parking Signs	Each	40
596	6" White Thermo.	L.F.	300
597	24" White Thermo.	L.F.	166
598	Thermo. Pvmt. Marking Symbol	Each	8

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
0	W20-1	"ROAD WORK AHEAD"
0	W20-2	"DETOUR AHEAD"
0	W20-3	"ROAD CLOSED AHEAD"
0	W20-5	"(RIGHT OR LEFT) LANE CLOSED AHEAD"
0	W4-2	LANE DROP SYMBOL, RIGHT OR LEFT
0	W20-1a	WORK SYMBOL
0	W1-4	REVERSE CURVE
0	W1-6	ONE DIRECTION ARROW
0	M4-9 L&R&S	DETOUR (LEFT, RIGHT, OR STRAIGHT ARROW)
0	D3-1	CONVENTIONAL GUIDE
0	M4-8a	"DETOUR ENDS"
0	M4-10	"DETOUR"
0	R6-1 L&R	"ONE WAY" (LEFT OR RIGHT)
0	TYPE III	TYPE III LIGHTED BARRICADE
0	TYPE II	TYPE II LIGHTED BARRICADE (DRUM)
0	R11-2	"ROAD CLOSED"
0	R11-4	"ROAD CLOSED TO THRU TRAFFIC"
0	TYPE A	LIGHTED ARROW, TYPE A
0	TYPE B	LIGHTED ARROW, TYPE B
0	R9-9	SIDEWALK CLOSED
0	R9-11	SIDEWALK CLOSED AHEAD CROSS HERE
0	R5-9	SIDEWALK CLOSED USE OTHER SIDE
0	G20-2	"END ROAD WORK"
0	R5-18b	"INJURE/KILL A WORKER \$7500+15 YEARS"
0	R5-18cLA	"WORK ZONE BEGINS/TRAFFIC FINES DOUBLED"
0	R3-1	NO RIGHT TURN
0	R3-2	NO LEFT TURN
0	SPECIAL	42"X48" SPECIAL SIGN
0	W20-5c	"CENTER LANE CLOSED AHEAD"
0	R2-1	SPEED LIMIT
0	TYPE C	LIGHTED ARROW, TYPE C
0	W3-5	REDUCED SPEED LIMIT AHEAD

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 5 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER.
7. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
8. PAVE 3 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
9. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 2 INCHES OF THE BITUMINOUS MIX SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
11. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
12. COMPLETE ALL PAVEMENT MARKINGS.
13. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND ITS DETAILS WHICH ARE INCLUDED BY REFERENCE. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 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 (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) 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.



STORM WATER FLOODPLAIN

SOIL EROSION

TRAFFIC

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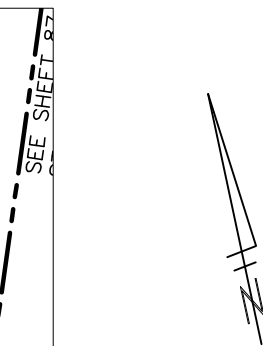
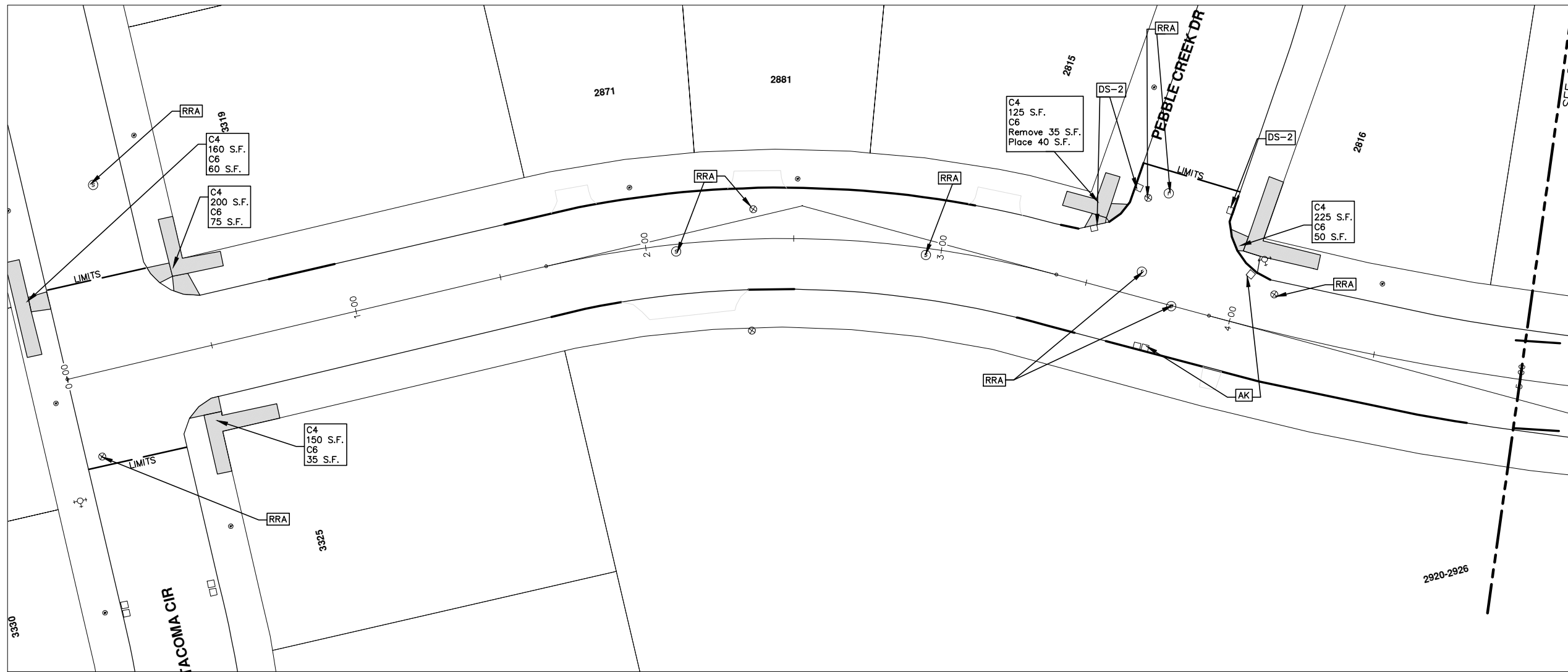
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

PROJECT DESCRIPTION AND LIMITS

DRAWING No. 2013004 - 85

SHEET No. 85 OF 89

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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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
⓪	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊙	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
[Hatched Box]	REMOVE AND REPLACE CONC. SIDEWALK
[Dotted Box]	PLACE CONCRETE SIDEWALK
[Double Line]	REMOVE & REPLACE CONC. CURB & GUTTER
[Dashed Line]	CONSTRUCTION LIMITS
[Dash-Dot Line]	6" WRAPPED UNDERDRAIN
[Hatched Box]	REMOVE CONCRETE SIDEWALK
[Solid Grey Box]	SUBGRADE UNDERCUT



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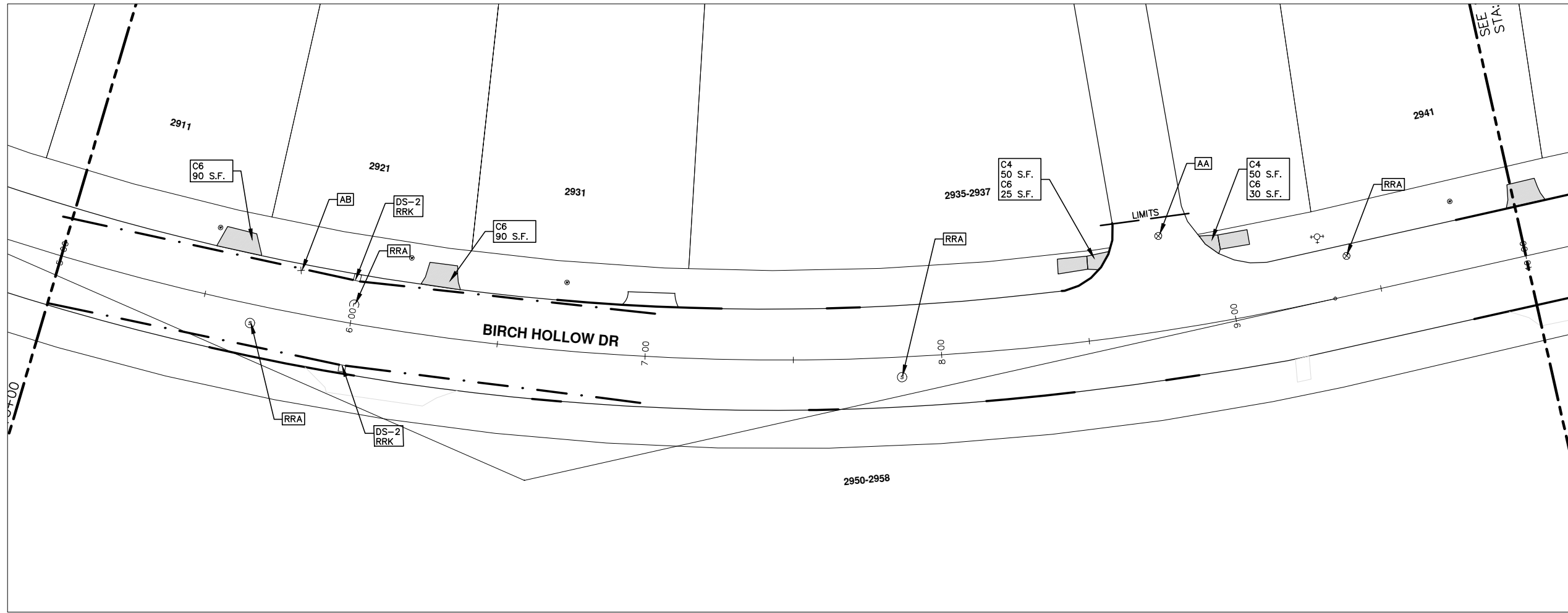
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
BIRCH HOLLOW
CONSTRUCTION PLAN, PG 1 OF 3

SCALE PLAN: 1" = 20'
DRAWING No. 2013004-86

SHEET No. 86 OF 89

REV.	DESCRIPTION	DATE	DRAWN BY	CHECKED
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CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP, H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP, OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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



REV.	DESCRIPTION	DATE	BY	CHECKED
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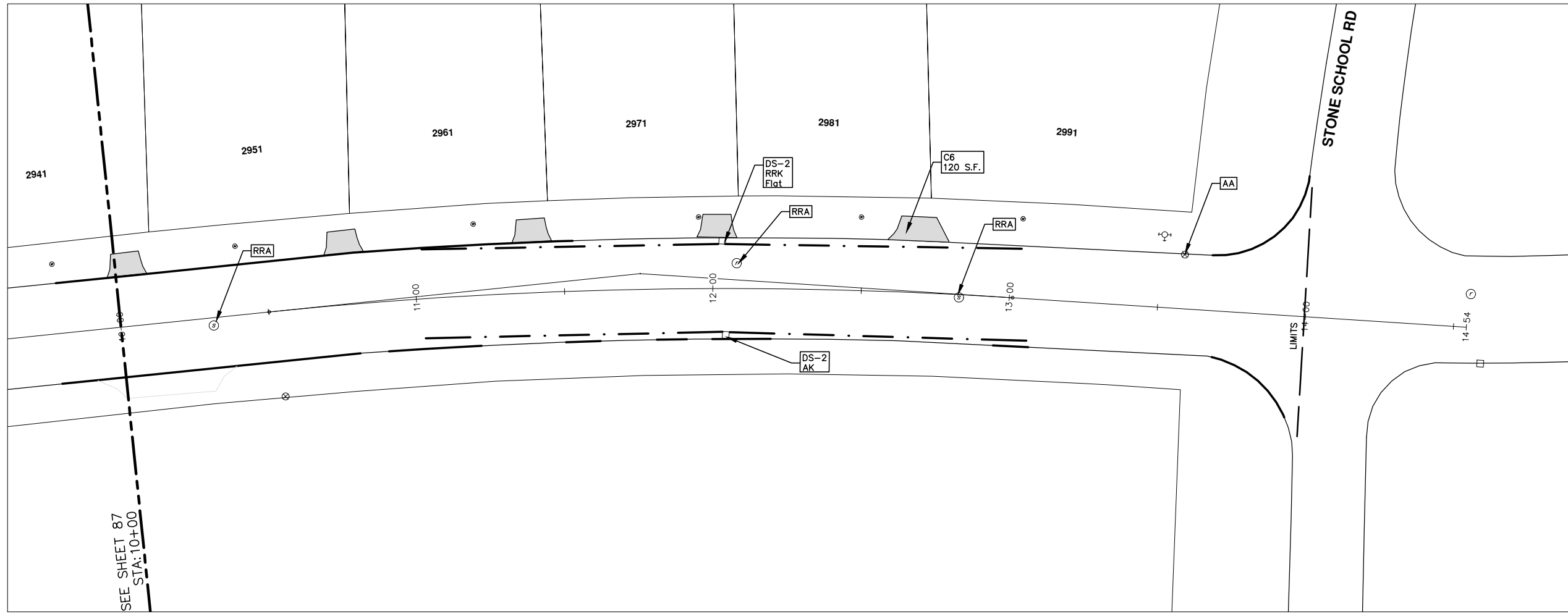
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PUBLIC SERVICES
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
2013 ANNUAL RESURFACING PROGRAM
BIRCH HOLLOW
CONSTRUCTION PLAN, PG 2 OF 3

SCALE PLAN: 1" = 20'
DRAWING No. 2013004-87

S:\Project Management\Design\2013004 Resurfacing\Plan Production\Birch Hollow\2013004Lay-Birch Hollow.dwg Dwg Created: 7-Sep-12 - _g2 standard bw.stb - Plot Date: 1-Feb-13



CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP, H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP, OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

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
[Hatched Box]	REMOVE AND REPLACE CONC. SIDEWALK
[Dotted Box]	PLACE CONCRETE SIDEWALK
[Thick Solid Line]	REMOVE & REPLACE CONC. CURB & GUTTER
[Dashed Line]	CONSTRUCTION LIMITS
[Dotted Line]	6" WRAPPED UNDERDRAIN
[Hatched Box]	REMOVE CONCRETE SIDEWALK
[Solid Box]	SUBGRADE UNDERCUT



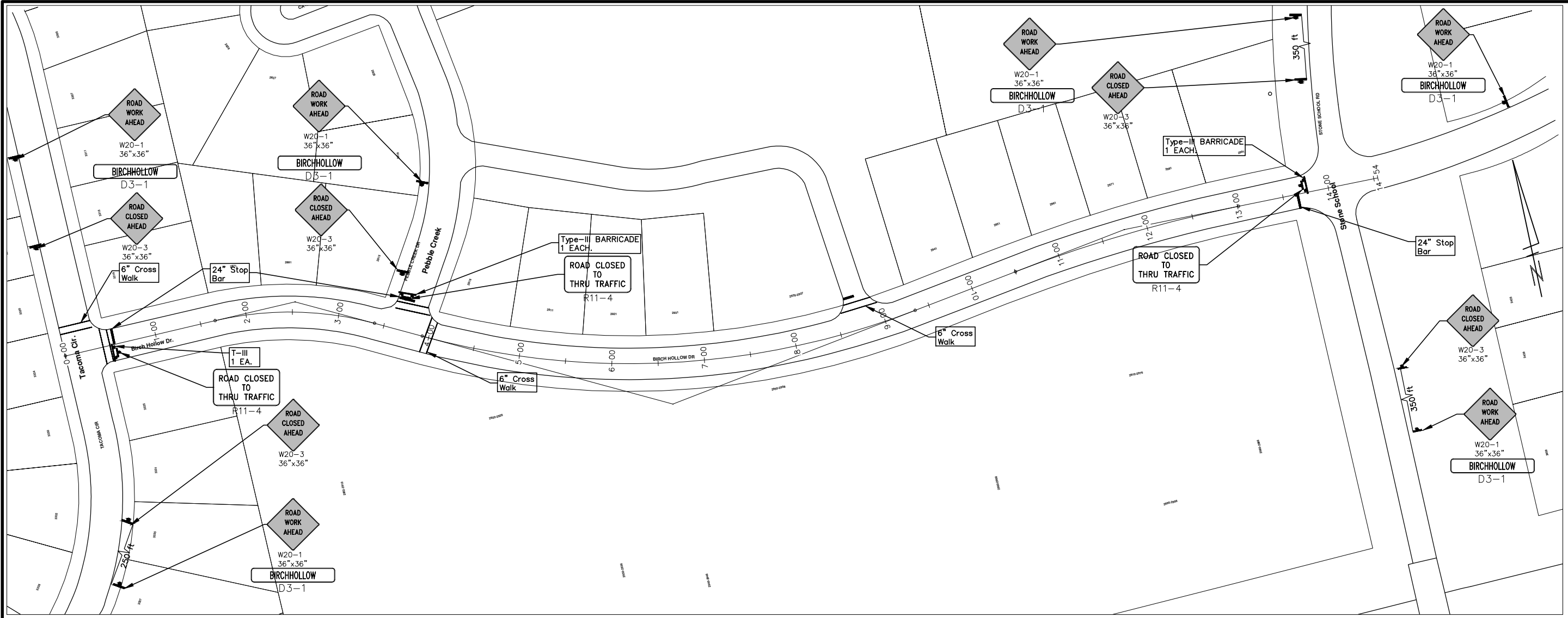
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2013 ANNUAL RESURFACING PROGRAM
BIRCH HOLLOW
CONSTRUCTION PLAN, PG 3 OF 3

SCALE PLAN: 1" = 20'
DRAWING No. 2013004-88



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