



# CITY OF ANN ARBOR PROJECT MANAGEMENT

IN COOPERATION WITH THE  
MICHIGAN DEPARTMENT OF TRANSPORTATION  
AND THE  
FEDERAL HIGHWAY ADMINISTRATION

# SIDEWALK IMPROVEMENT PROJECT

BARTON DRIVE TRAFFIC DATA	
2012 ANNUAL DAILY TRAFFIC (ADT)	7,020
2032 ADT	8,564
2012 COMMERCIAL	2%
2032 COMMERCIAL	2%
POSTED SPEED	25 MPH
DESIGN SPEED	30 MPH

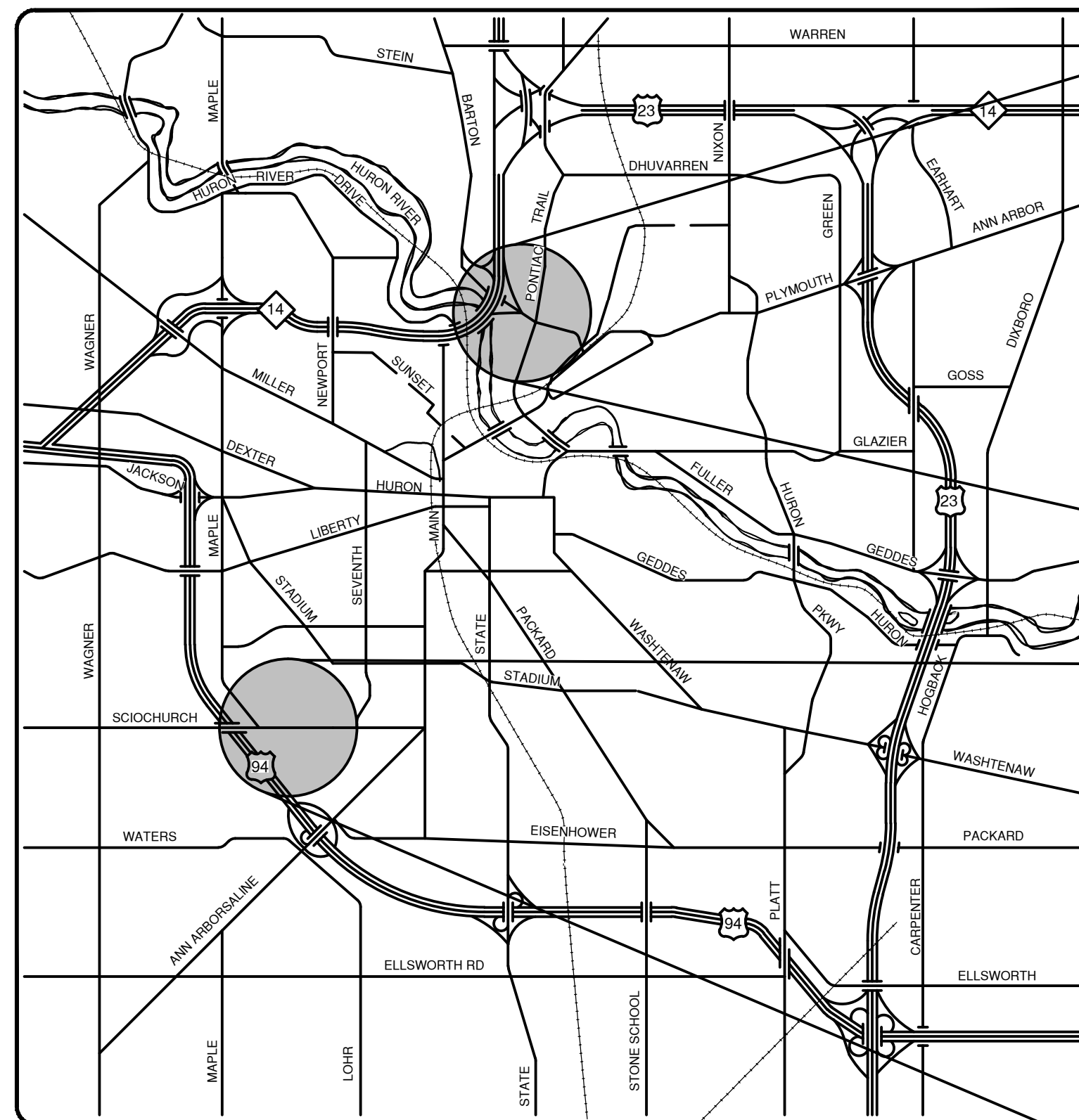
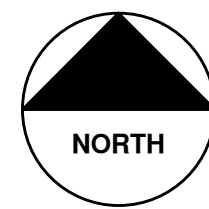
SCIO CHURCH ROAD TRAFFIC DATA	
2012 ANNUAL DAILY TRAFFIC (ADT)	10,085
2032 ADT	12,304
2012 COMMERCIAL	2%
2032 COMMERCIAL	2%
POSTED SPEED	35 MPH
DESIGN SPEED	40 MPH



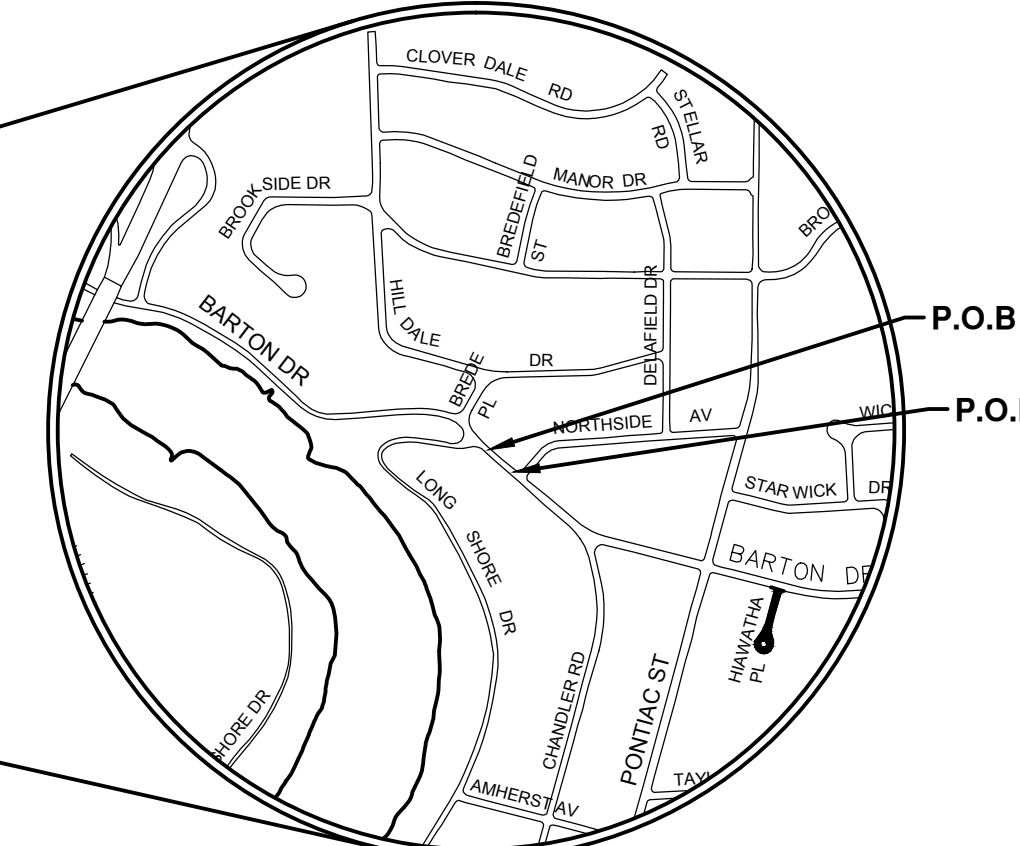
REV.	DATE	DESCRIPTION	CHECKED	DRAWN

MDOT JOB NO. 124325A  
FEDERAL ITEM NO.

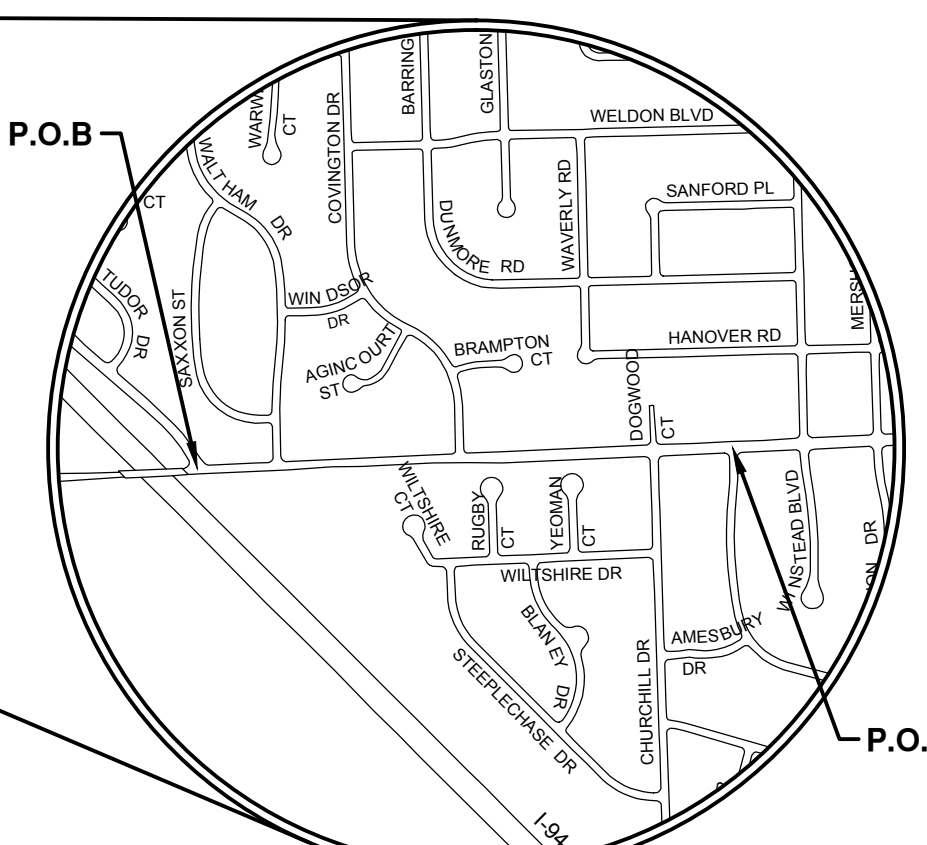
MDOT CONTROL SECTION NO. STU81475  
FEDERAL PROJECT NO.



VICINITY MAP



BARTON DRIVE



SCIO CHURCH ROAD

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	TYPICAL CROSS SECTIONS
3	DETAILS
4	NOTES AND LEGEND
5	BARTON DRIVE - PROPOSED SIDEWALK PLAN
6	BARTON DRIVE - GRADING AND STAKING PLAN
7	BARTON DRIVE - STORM SEWER PLAN AND PROFILE
8	SCIO CHURCH ROAD - PROPOSED SIDEWALK PLAN
9	SCIO CHURCH ROAD - PROPOSED SIDEWALK PLAN
10	SCIO CHURCH ROAD - PROPOSED SIDEWALK PLAN
11	SCIO CHURCH ROAD - MODULAR BLOCK RETAINING WALL
12	SCIO CHURCH ROAD - GRADING AND STAKING PLAN
13	SCIO CHURCH ROAD - GRADING AND STAKING PLAN
14	SCIO CHURCH ROAD - GRADING AND STAKING PLAN
15	SCIO CHURCH ROAD - GRADING AND STAKING PLAN
16	SCIO CHURCH ROAD - GRADING AND STAKING PLAN
17	BARTON DRIVE - TEMPORARY TRAFFIC CONTROL
18	SCIO CHURCH ROAD - TEMPORARY TRAFFIC CONTROL
19	QUANTITIES

**NOTES:**

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

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

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION (INCLUDING REFERENCED M.D.O.T. PUBLICATIONS) AND THIS PROJECT'S CONTRACT DOCUMENTS.

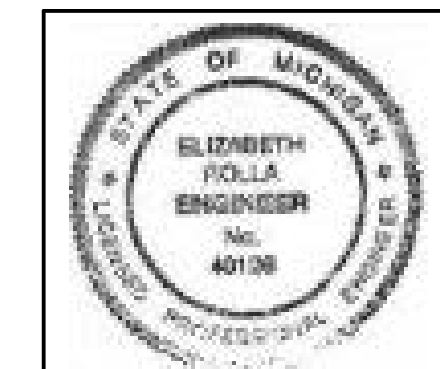
THE PROPOSED IMPROVEMENTS COVERED BY THESE PLANS ARE DESIGNED IN ACCORDANCE WITH THE 2004 A.A.S.H.T.O. "PLANNING, DESIGN, AND OPERATION OF PEDESTRIAN FACILITIES" AND THE TRAFFIC CONTROL IN ACCORDANCE WITH THE 2011 "MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

CONTRACT FOR:  
0.54 MILES OF CONCRETE SIDEWALK CONSTRUCTION WITH STORM SEWER UPGRADES, CURB AND GUTTER, RETAINING WALL, PERMANENT SIGNING AND PERMANENT MARKINGS.

**PROJECT MANAGEMENT SERVICE UNIT**

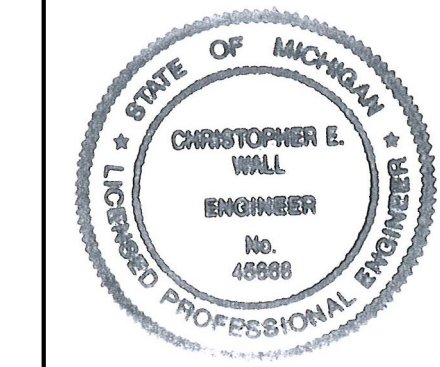


*Elizabeth Rolla*  
ELIZABETH ROLLA, P.E. - MI LICENSE No. 40106  
PROJECT ENGINEER



5/16/2014  
DATE

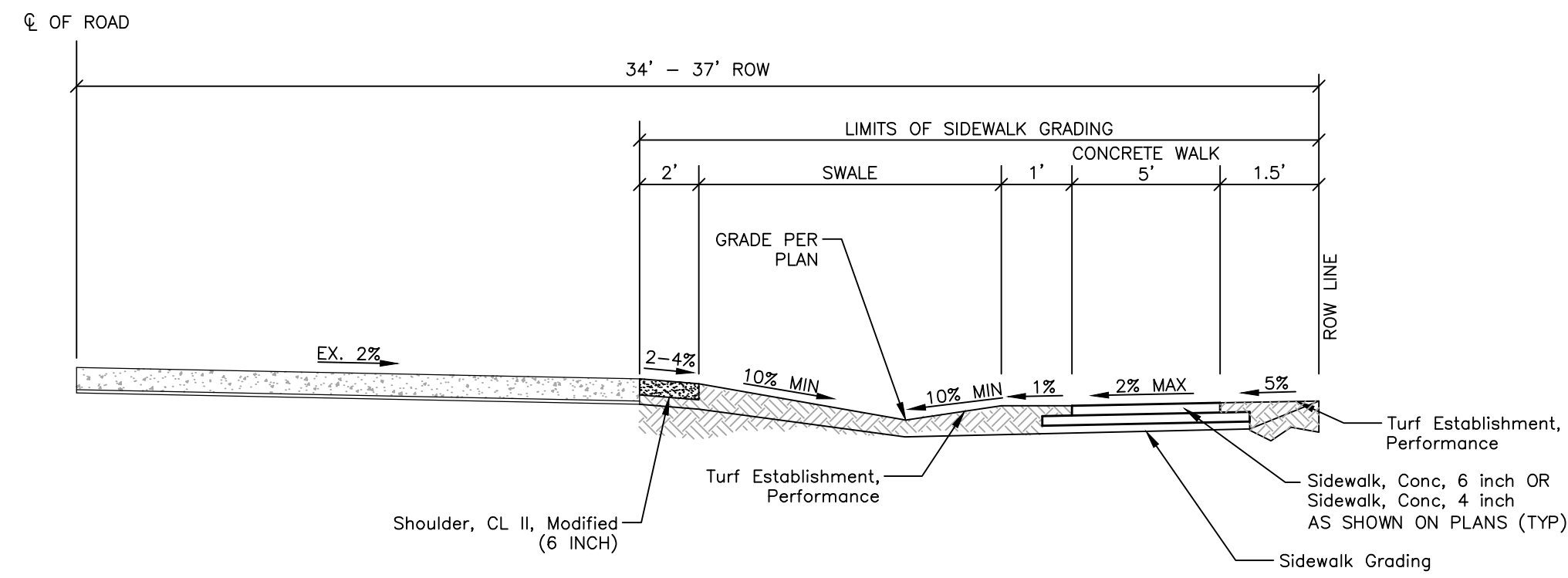
PREPARED UNDER THE SUPERVISION OF  
*Christopher E. Wall*  
CHRISTOPHER E. WALL, P.E. - MI LICENSE No. 45668  
PROJECT MANAGER



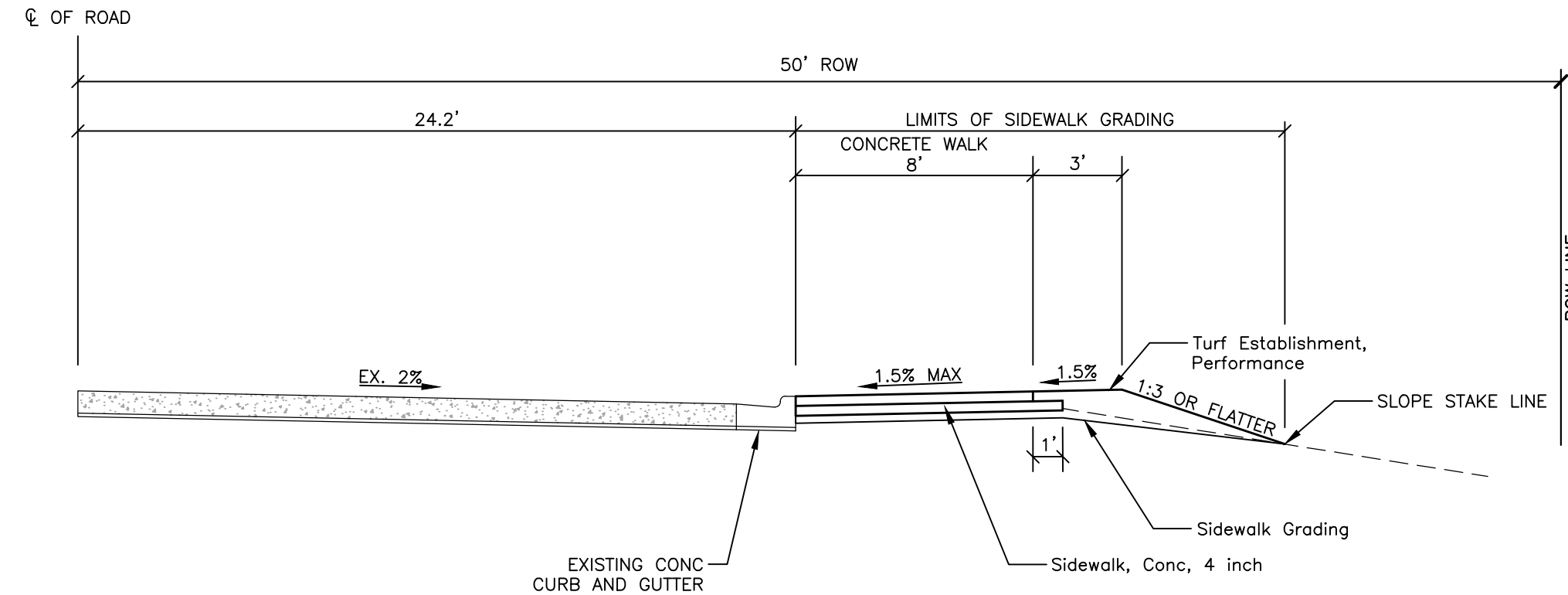
5/16/2014  
DATE

PROJECT DESCRIPTION  
BARTON DRIVE SIDEWALK FROM BREDE TP CHANDLER  
SCIO CHURCH ROAD FROM MAPLE ROAD TO DELAWARE DRIVE

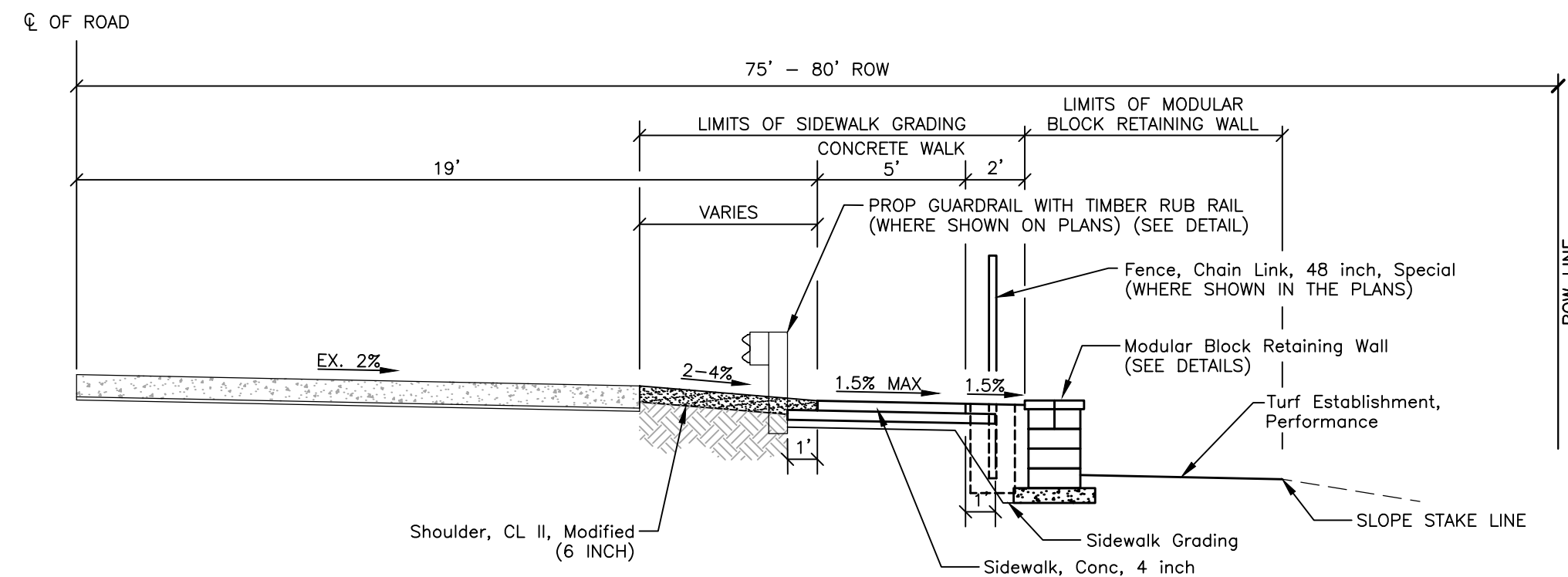
DRAWING No.  
C001130678  
SHEET No.  
1 OF 19



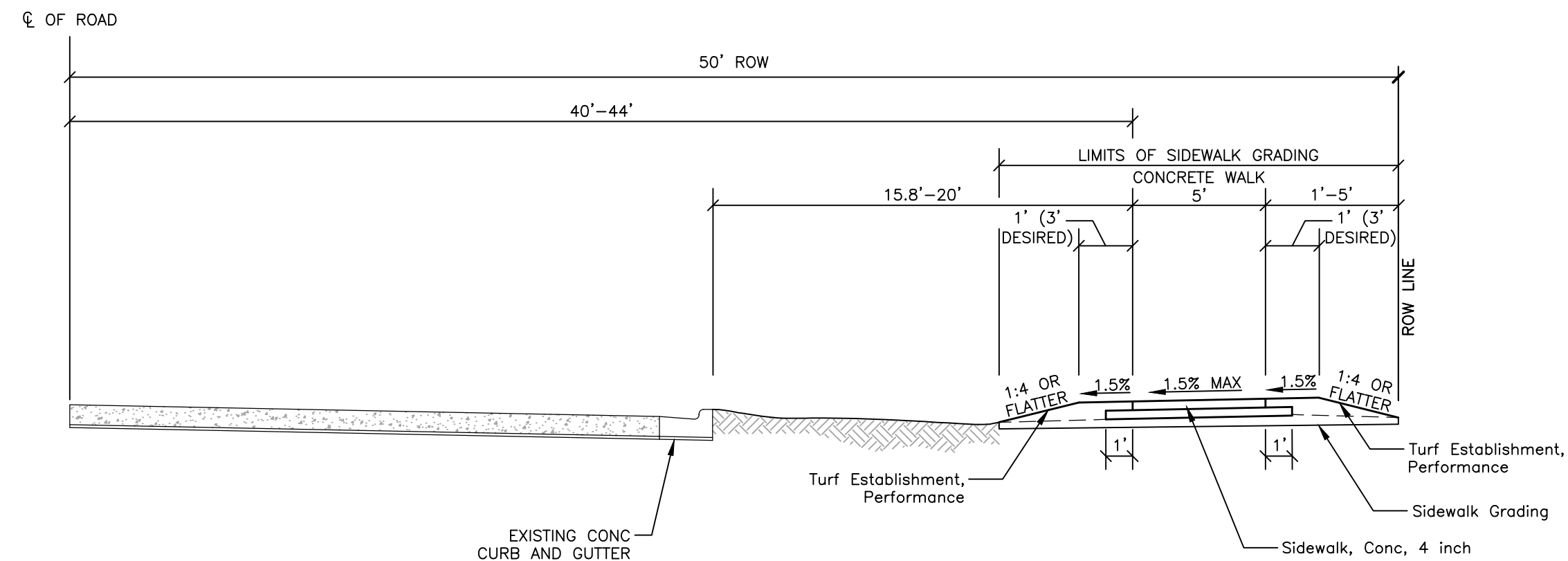
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P.O.B. TO P.O.E.



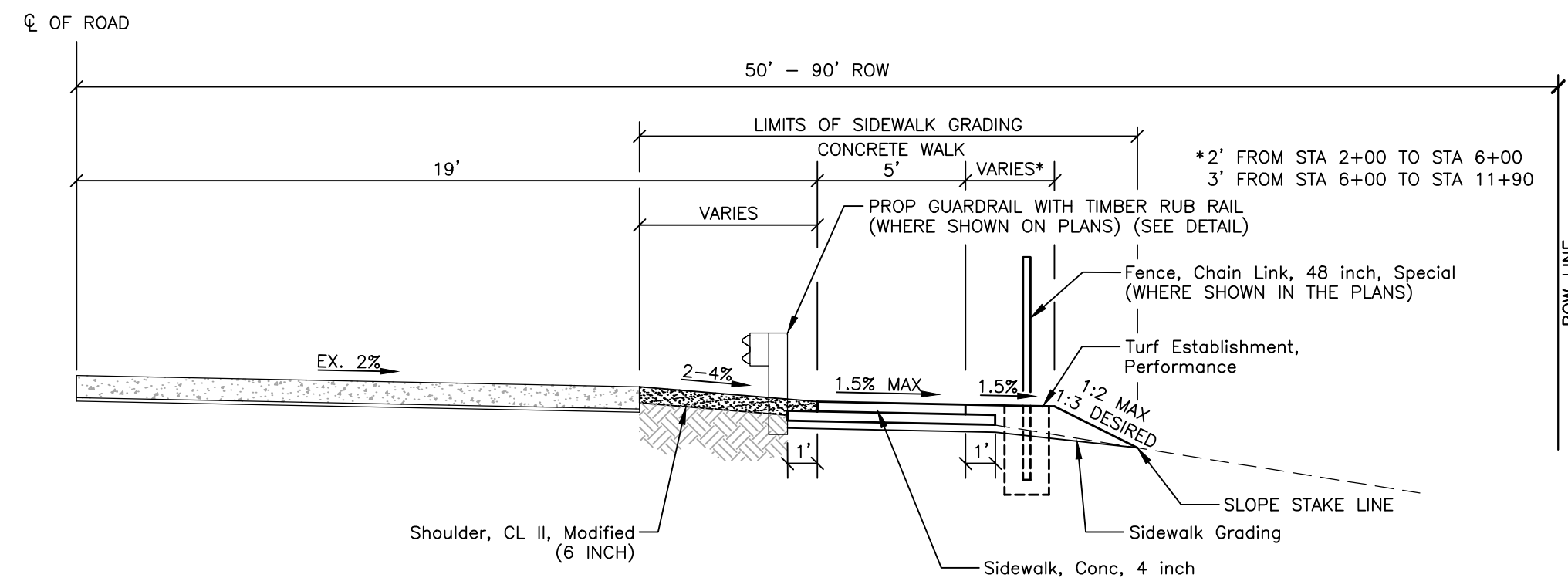
**SCIO CHURCH ROAD SIDEWALK TYPICAL SECTION**  
STA 11+90 TO STA 13+70



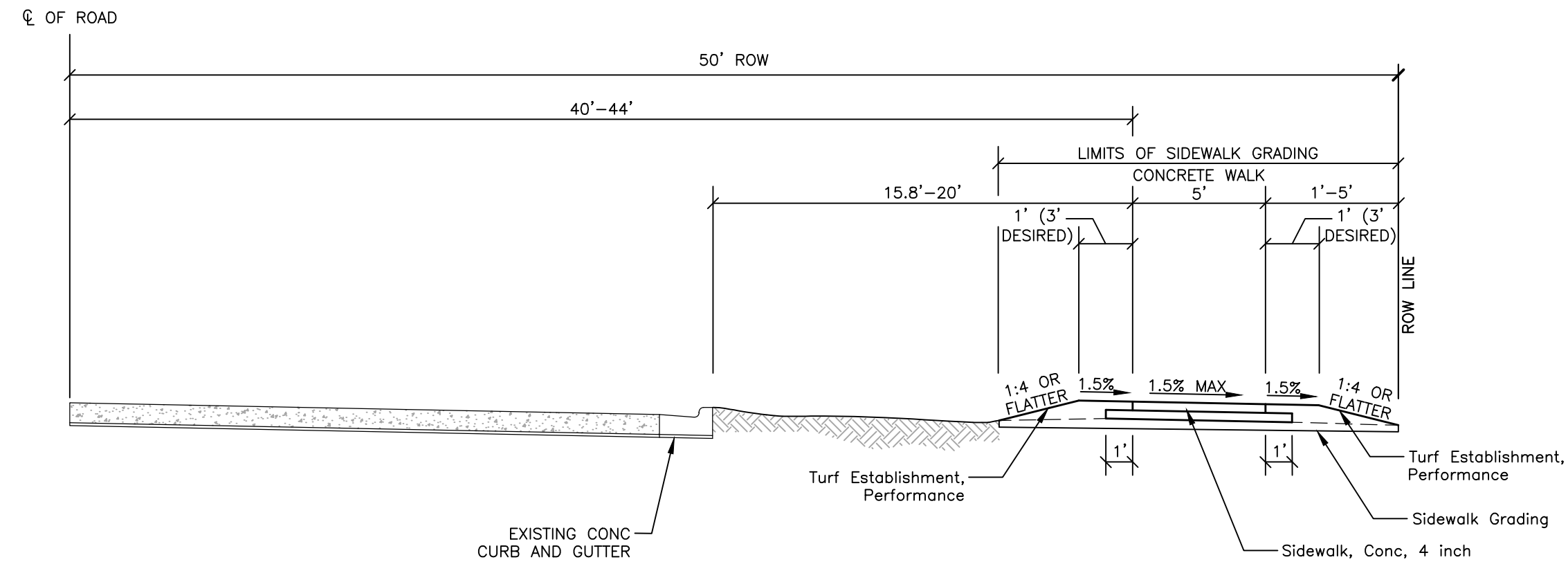
**SCIO CHURCH ROAD SIDEWALK TYPICAL SECTION**  
P.O.B. TO STA 2+00



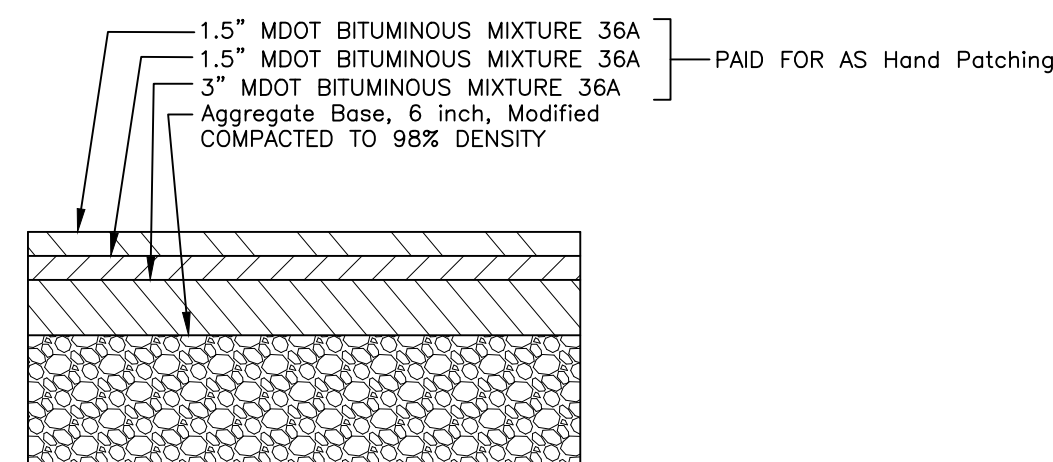
**SCIO CHURCH ROAD SIDEWALK TYPICAL SECTION**  
STA 13+70 TO STA 15+50



**SCIO CHURCH ROAD SIDEWALK TYPICAL SECTION**  
STA 2+00 TO STA 11+90



**SCIO CHURCH ROAD SIDEWALK TYPICAL SECTION**  
STA 15+50 TO P.O.E.



**BARTON DRIVE / SCIO CHURCH ROAD HMA SECTION**  
NO SCALE

HMA APPLICATION CHART			
ITEM	RATE PER SYD	PERFORMANCE GRADE	REMARKS
HAND PATCHING	VARIABLES	64-28	HMA, 36A (MIN. COURSE THICKNESS 1", MAX COURSE THICKNESS 1.5")
BOND COAT	.05-.15 GAL		BETWEEN LAYERS

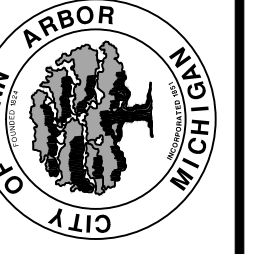
\*FOR INFORMATION USE ONLY

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REV.	DATE	DRAWN	CHECKED

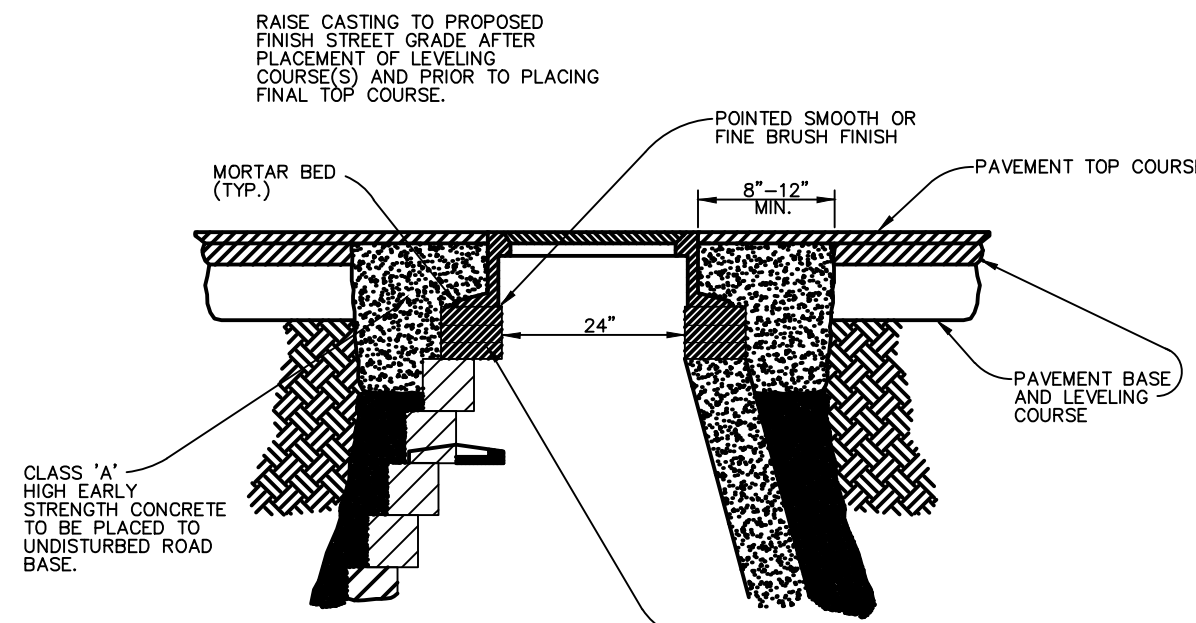
CITY OF ANN ARBOR  
PUBLIC SERVICE  
301 EAST HURON STREET  
ANN ARBOR MI 48106-1667  
www.a2gov.org



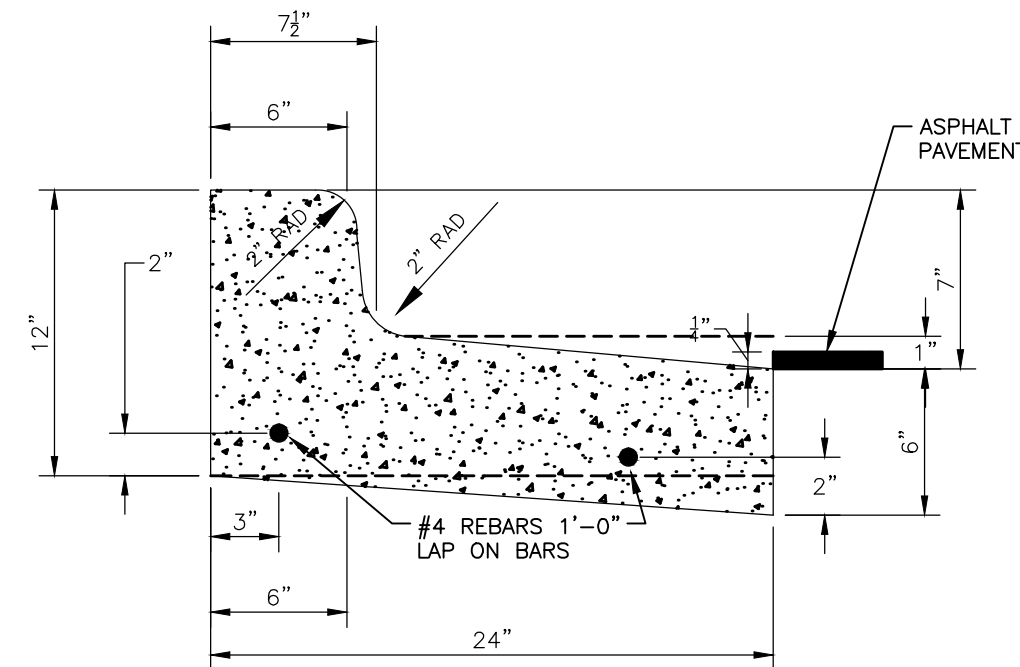
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
SIDEWALK IMPROVEMENT PROJECT  
BARTON DRIVE AND SCIO CHURCH ROAD  
TYPICAL CROSS SECTIONS

SCALE PLAN: NTS  
DRAWING No. C002130678

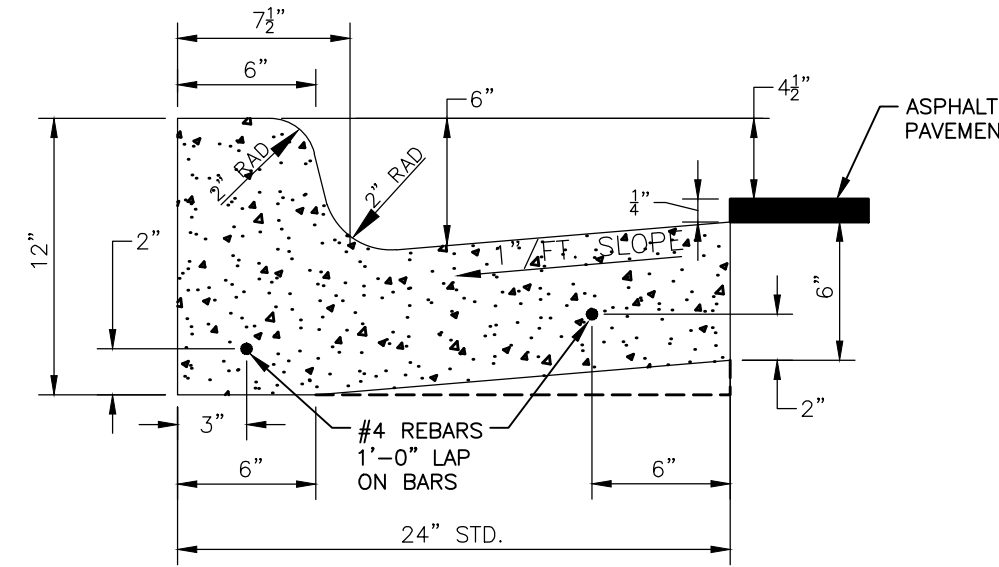
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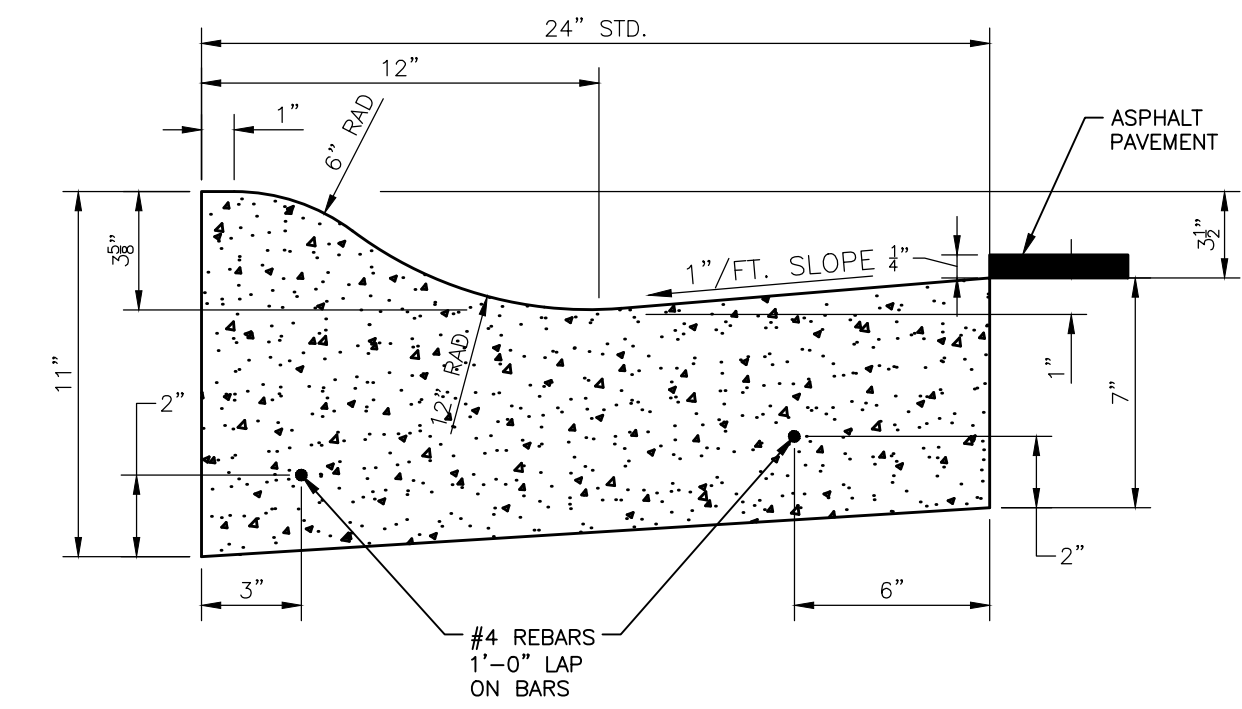
**DR STRUCTURE COVER, ADJ, MODIFIED**



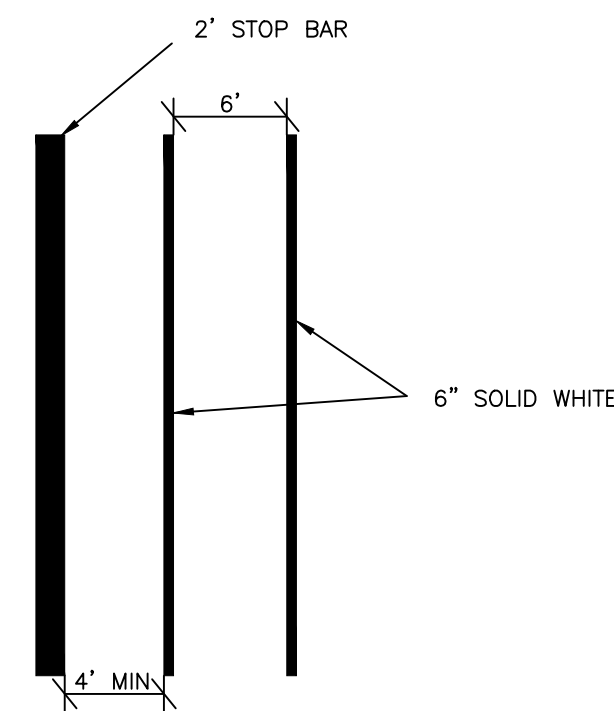
**CURB AND GUTTER, CONC, MODIFIED (SPILL-OUT)**



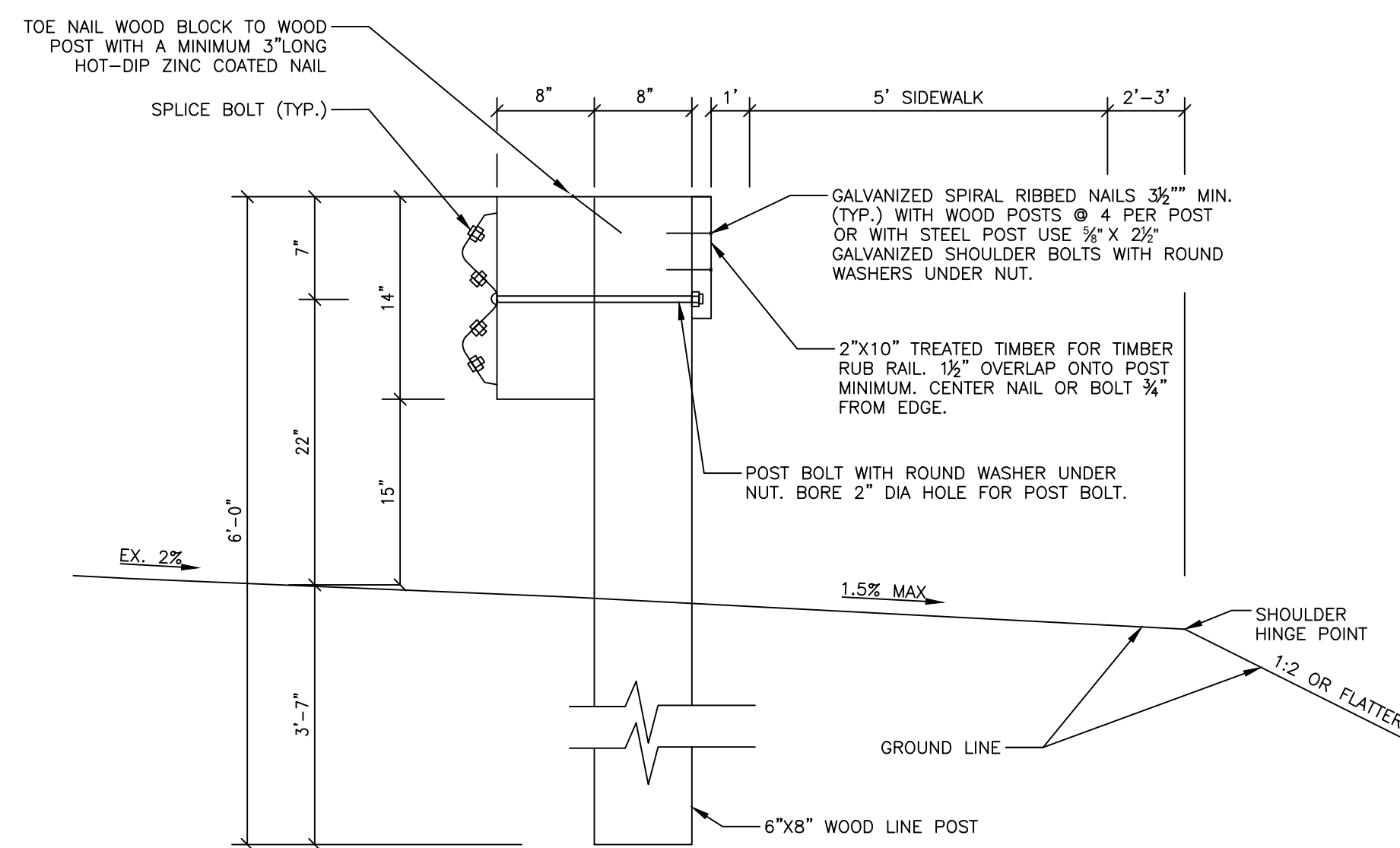
**CURB AND GUTTER, CONC, MODIFIED**



**MOUNTABLE CURB AND GUTTER, CONC, MODIFIED**

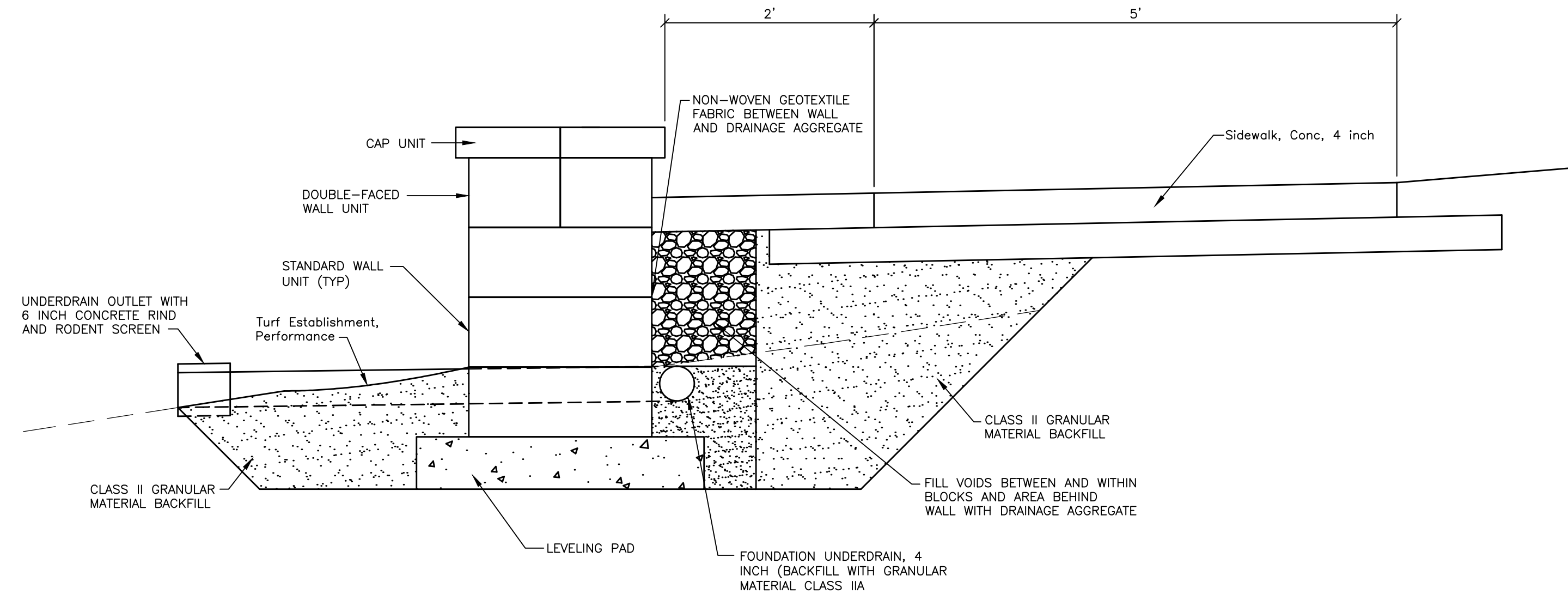


**CROSSWALK DETAIL**



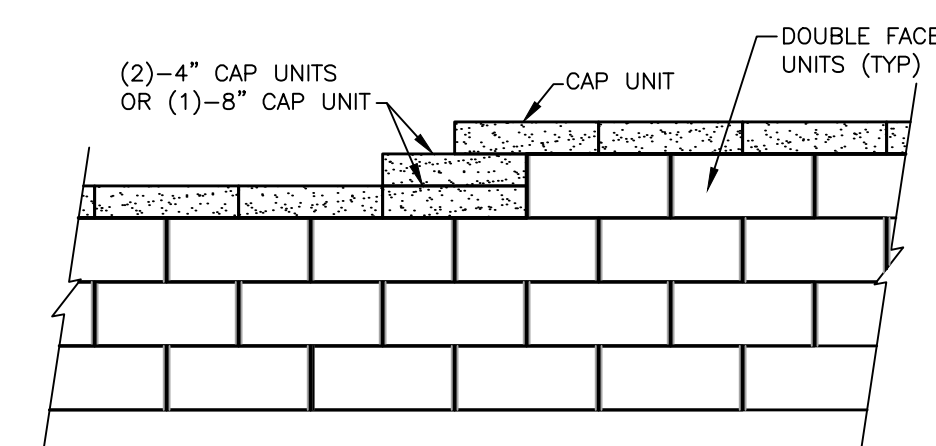
**TIMBER RUB RAIL DETAIL**

PAID FOR AS TIMBER RUB RAIL PAY ITEM.

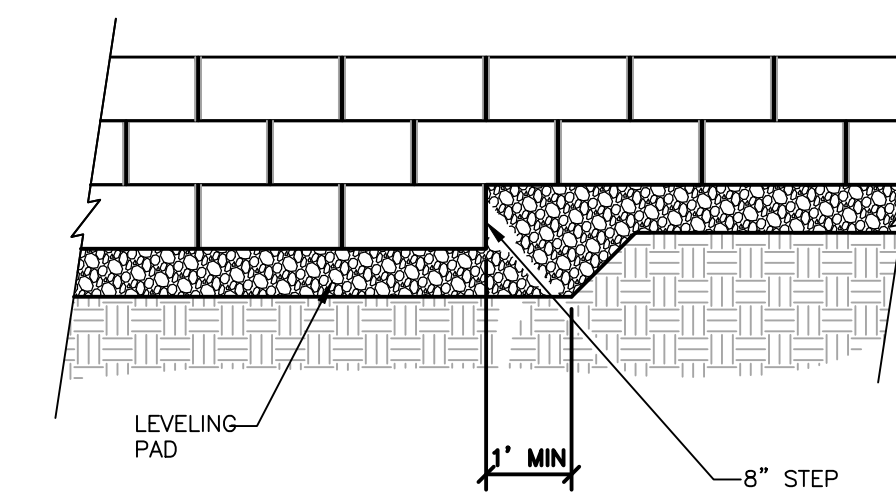


**TYPICAL SECTION THRU MODULAR BLOCK RETAINING WALL**

ALL WORK PAID FOR AS MODULAR BLOCK RETAINING WALL PAY ITEM.



**TOP OF WALL STEP DETAIL**



**LEVELING PAD STEP DETAIL**

REV.	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR  
PUBLIC SERVICE  
301 EAST HURON STREET  
ANN ARBOR MI 48106-1647  
www.a2gov.org

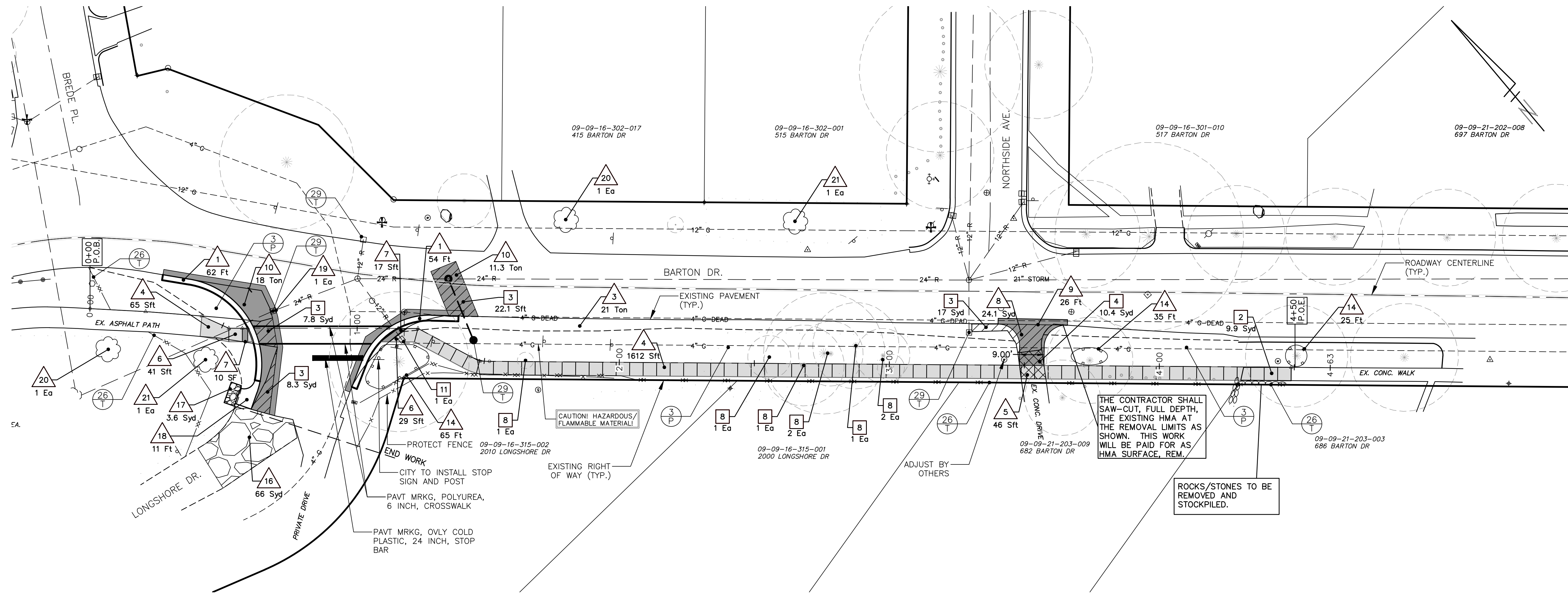


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
SIDEWALK IMPROVEMENT PROJECT  
BARTON DRIVE AND SCIO CHURCH ROAD  
DETAILS

SCALE PLAN: NTS  
DRAWING No. C003130678



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REMOVAL KEY	
KEY	DESCRIPTION
1	CURB AND GUTTER, REM
2	SIDEWALK, REM
3	HMA SURFACE, REM
4	PAVT, REM
5	FENCE, REM
6	GUARDRAIL, REM
7	SIGN, TYPE III, REM *
8	TREE, REM, 6 INCH TO 18 INCH
9	TREE, REM, 19 INCH TO 36 INCH
10	STUMP, REM, 6 TO 18 INCH
11	DR STRUCTURE, REM

\* Signs to be protected, salvaged, and provided to City. City to install signs and posts.

CONSTRUCTION KEY	
KEY	DESCRIPTION
1	MOUNTABLE CURB AND GUTTER, CONC, MODIFIED
2	CURB AND GUTTER, CONC, MODIFIED
3	SHOULDER, CL II, MODIFIED
4	SIDEWALK, CONC, 4 INCH
5	SIDEWALK, CONC, 6 INCH
6	SIDEWALK RAMP, CONC, 6 INCH, MODIFIED
7	DETECTABLE WARNING SURFACE, MODIFIED
8	DRIVEWAY, NONREINF CONC, 6 INCH
9	DRIVEWAY OPENING, CONC, DET M, MODIFIED
10	HAND PATCHING
11	GUARDRAIL, TYPE B **

CONSTRUCTION KEY	
KEY	DESCRIPTION
12	GUARDRAIL APPROACH TERMINAL, TYPE 2B **
13	FENCE, CHAIN LINK, 48 INCH, SPECIAL
14	FENCE, PROTECTIVE
15	MODULAR BLOCK RETAINING WALL
16	AGGREGATE SURFACE CSE, 8 INCH
17	RIPRAP, PLAIN
18	SPILLWAY, CONC
19	DR STRUCTURE, COVER, ADJ, MODIFIED
20	LIRIODENDRON TULIPIFERA, 2 INCH
21	QUERCUS BICOLOR, 2 INCH

\*\* Guardrail installation to be coordinated with Engineer prior to installation.

Know what's below. Call before you dig.

NO	ADD DESCRIPTION	AN MAKE LAYER PLOT	DATE	DATE	BY	CHECKED

CITY OF ANN ARBOR  
PUBLIC SERVICE  
301 EAST HURON STREET  
ANN ARBOR MI 48106-1410  
www.a3gov.org

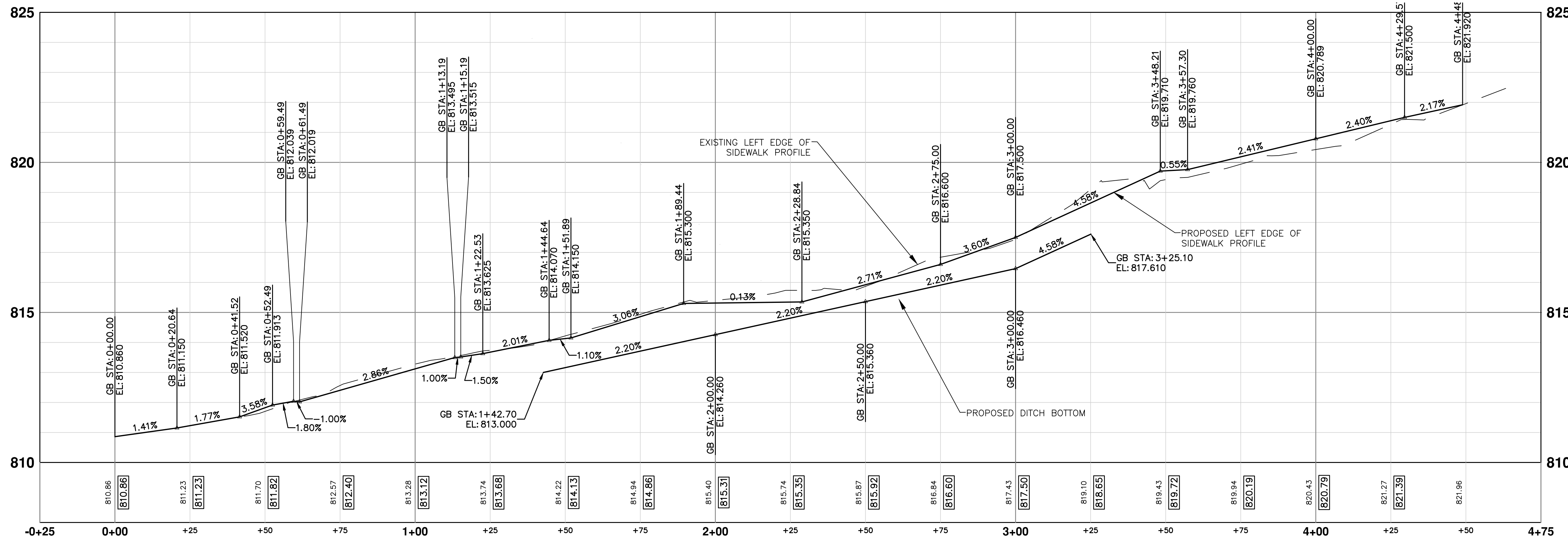
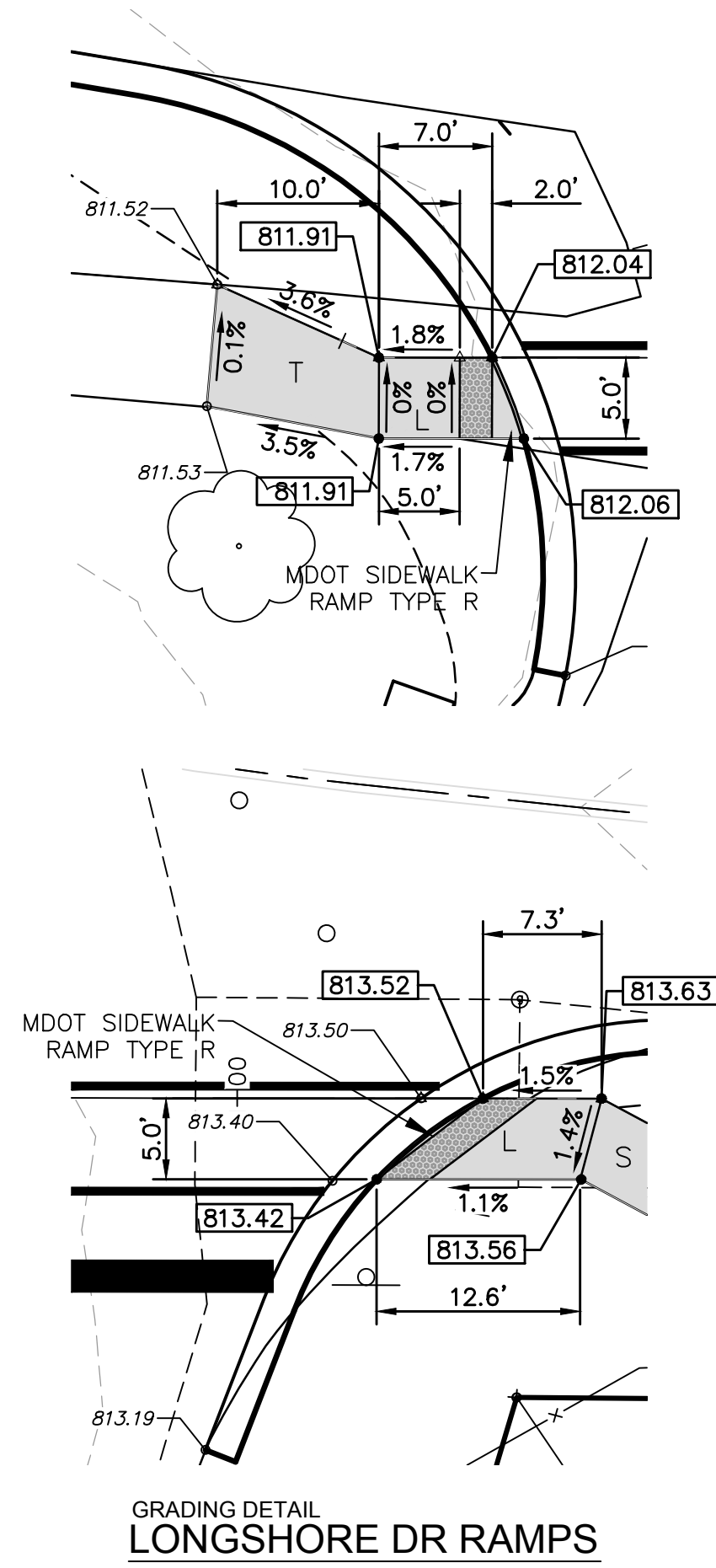
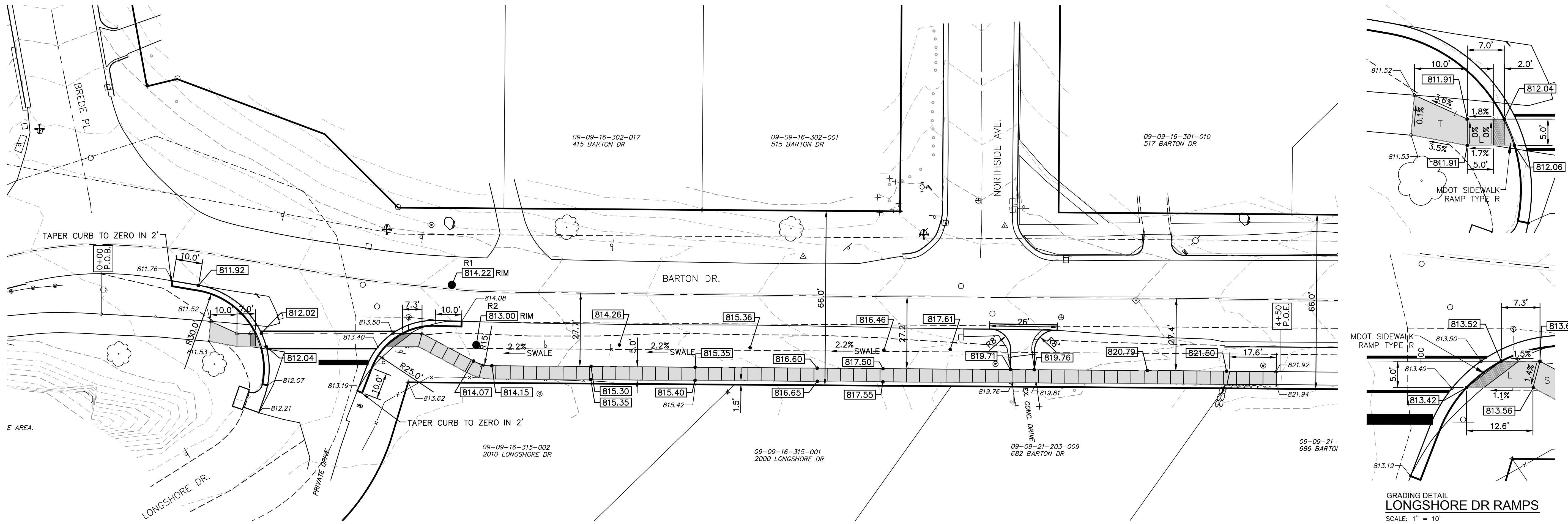
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
SIDEWALK IMPROVEMENT PROJECT  
BARTON DRIVE  
PROPOSED SIDEWALK PLAN

SCALE PLAN: 1" = 20'

DRAWING No. C005130678


SHEET No. 5 OF 19

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**GRADING LEGEND**


XXX.XX	PROPOSED ELEVATION
X.X%	PROPOSED SLOPE
R	SIDEWALK RAMP
L	LEVEL LANDING AREA
S	SIDEWALK
T	SIDEWALK TRANSITION
[Pattern]	DETECTABLE WARNING SURFACE



Know what's below.  
Call Before you dig.

NO.	DATE	DESCRIPTION	BY	CHECKED

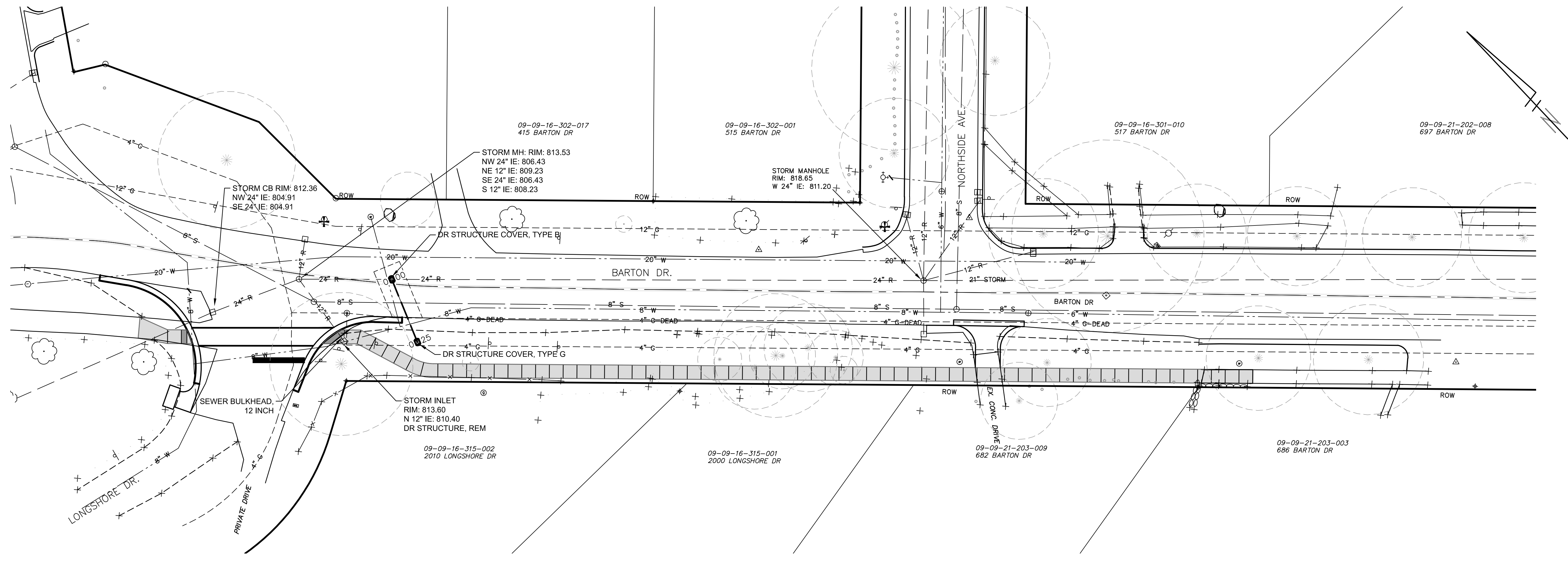
**CITY OF ANN ARBOR**  
**PUBLIC SERVICES**  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-1000  
 WWW.ANARBORMI.GOV



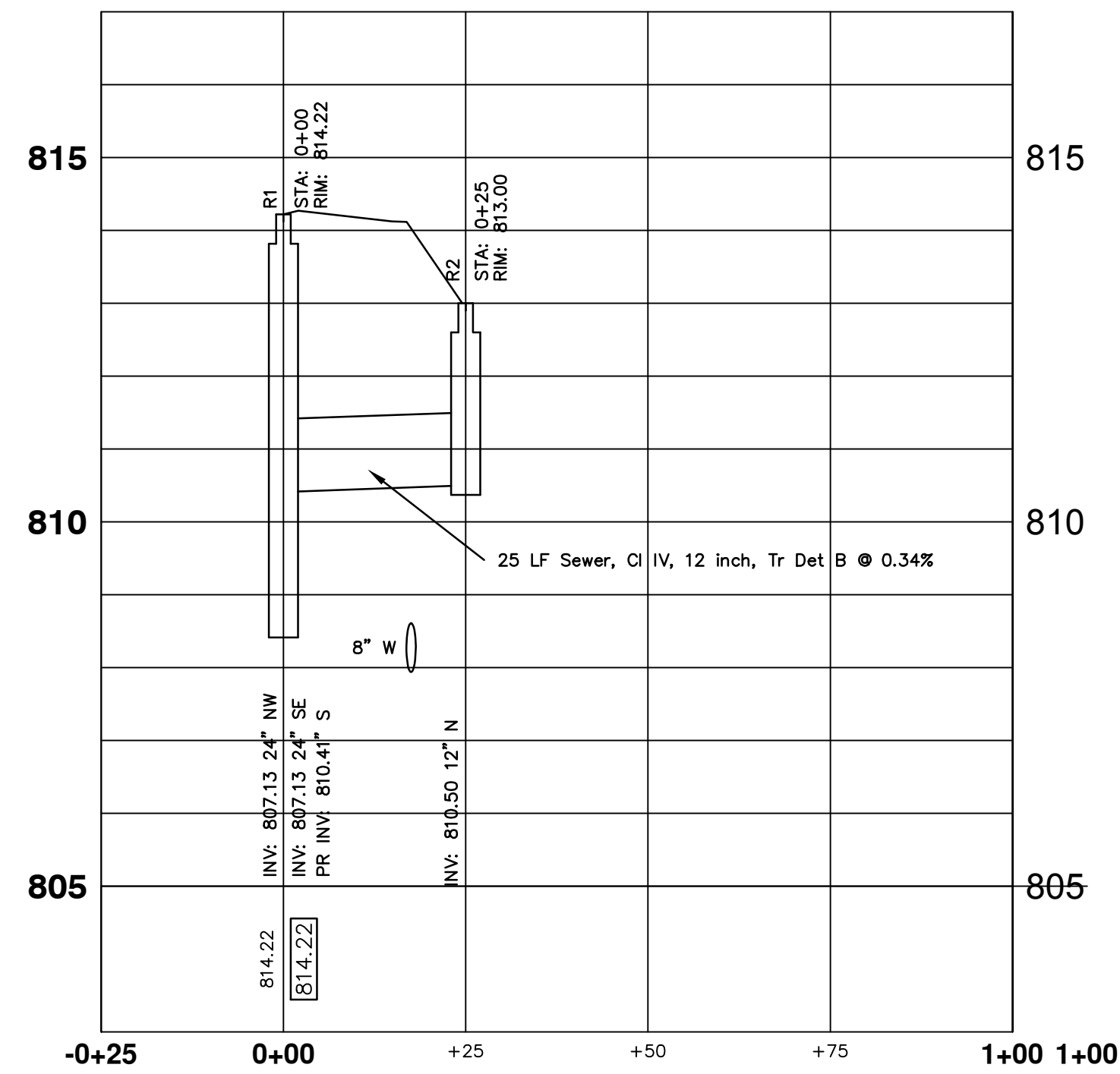
**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**SIDEWALK IMPROVEMENT PROJECT**  
 BARTON DRIVE  
 GRADING AND STAKING PLAN

SHEET No. **6 OF 19**

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STORM SEWER ALIGNMENT - (1)



PROPOSED STORM SEWER STRUCTURE TABLE

STRUCTURE	UTILITY STATION	RIM	DEPTH	TYPE	INVERTS
R1	0+00	814.22	5.8'	4' MH COVER B	12" S 810.41 24" SE 807.13 24" NW 807.13
R2	0+25	813.00	2.6'	2' INLET COVER G	12" N 810.50



CITY OF ANN ARBOR  
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
SIDEWALK IMPROVEMENT PROJECT  
BARTON DRIVE  
STORM SEWER  
PLAN AND PROFILE

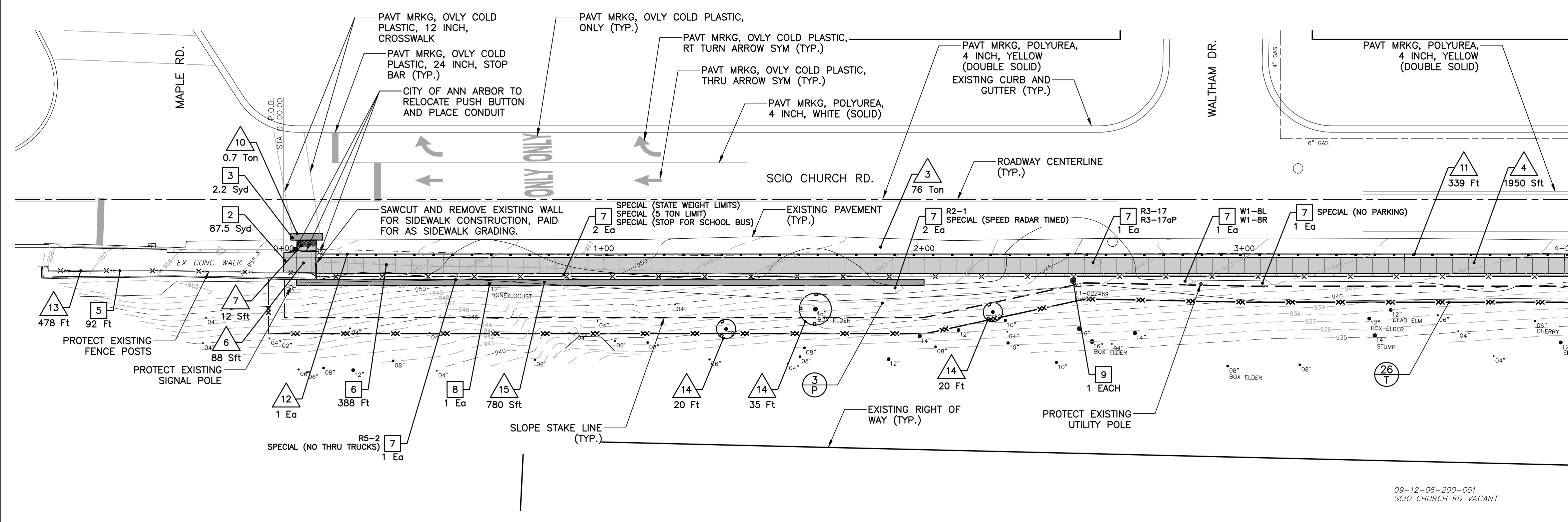
SCALE PLAN: 1" = 20'  
PROFILE: 1" = 4'  
DRAWING No.  
C007130678

SHEET No.

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Call MISS DIG  
3 full working days before you dig:  
Michigan's Utility Notification Organization  
1-800-482-7171  
on the net at: www.missdig.org

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



REMOVAL KEY

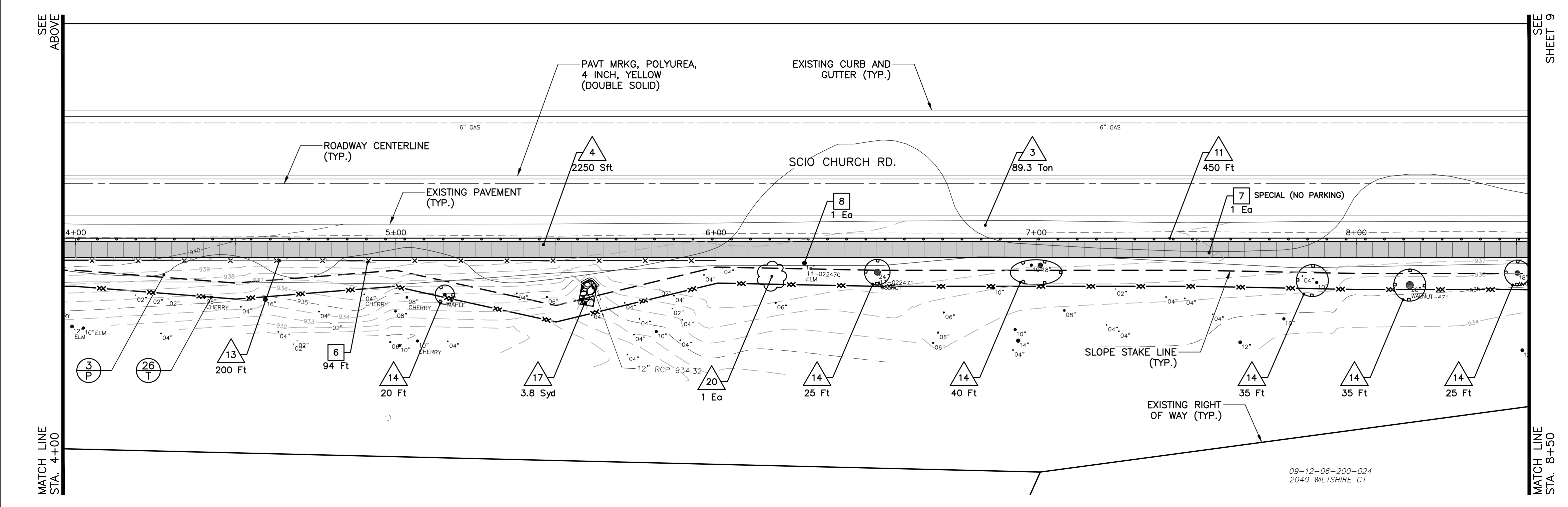
KEY	DESCRIPTION
1	CURB AND GUTTER, REM
2	SIDEWALK, REM
3	HMA SURFACE, REM
4	PAVT, REM
5	FENCE, REM
6	GUARDRAIL, REM
7	SIGN, TYPE III, REM *
8	TREE, REM, 6 INCH TO 18 INCH
9	TREE, REM, 19 INCH TO 36 INCH
10	STUMP, REM, 6 TO 18 INCH
11	DR STRUCTURE, REM

\* Signs to be protected, salvaged, and provided to City. City to install signs and posts.

CONSTRUCTION KEY

KEY	DESCRIPTION
1	MOUNTABLE CURB AND GUTTER, CONC, MODIFIED
2	CURB AND GUTTER, CONC, MODIFIED
3	SHOULDER, CL II, MODIFIED
4	SIDEWALK, CONC, 4 INCH
5	SIDEWALK, CONC, 6 INCH
6	SIDEWALK RAMP, CONC, 6 INCH, MODIFIED
7	DETECTABLE WARNING SURFACE, MODIFIED
8	DRIVEWAY, NONREINF CONC, 6 INCH
9	DRIVEWAY OPENING, CONC, DET M, MODIFIED
10	HAND PATCHING
11	GUARDRAIL, TYPE B **
12	GUARDRAIL APPROACH TERMINAL, TYPE 2B **
13	FENCE, CHAIN LINK, 48 INCH, SPECIAL
14	FENCE, PROTECTIVE
15	MODULAR BLOCK RETAINING WALL
16	AGGREGATE SURFACE CSE, 8 INCH
17	RIPRAP, PLAIN
18	SPILLWAY, CONC
19	DR STRUCTURE, COVER, ADJ, MODIFIED
20	LIRIODENDRON TULIPIFERA, 2 INCH
21	QUERCUS BICOLOR, 2 INCH

\*\* Guardrail installation to be coordinated with Engineer prior to installation.



REMOVAL KEY

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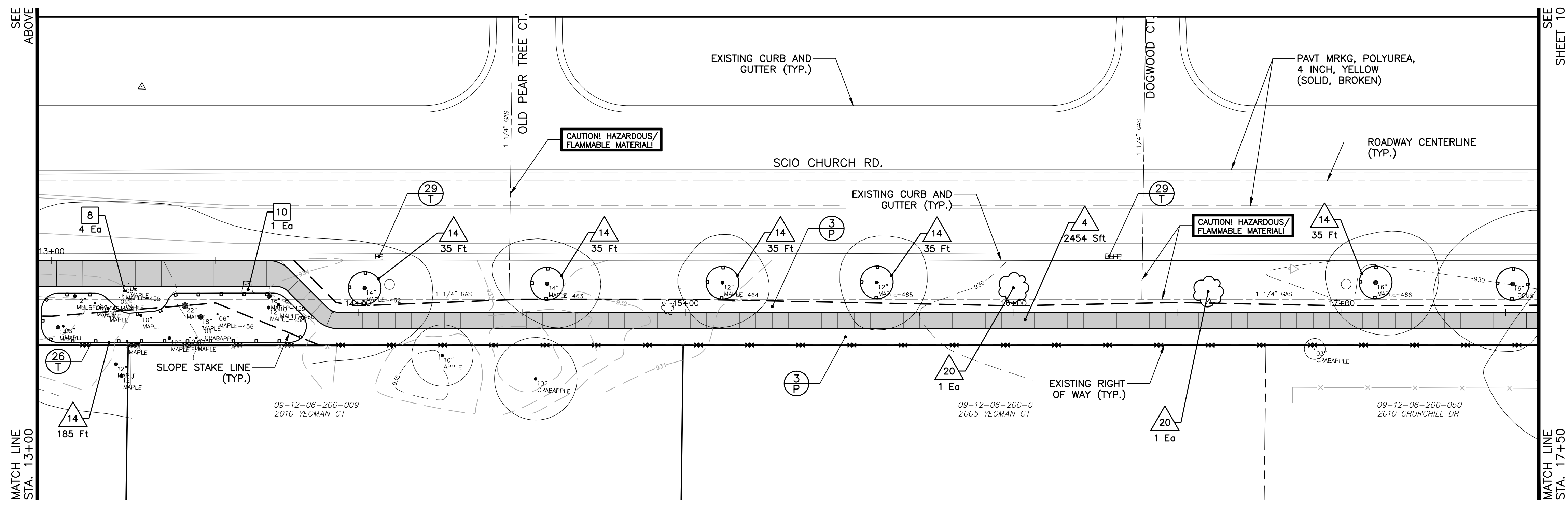
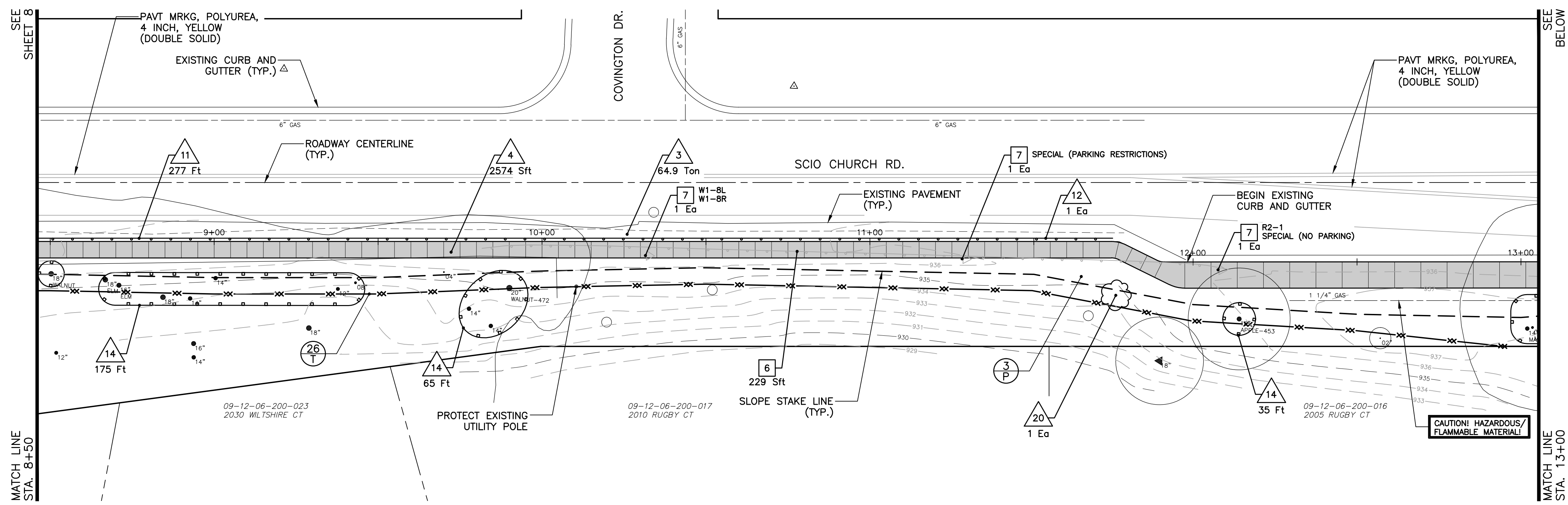
CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR MI 48106-1500  
www.a2gov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
SIDEWALK IMPROVEMENT PROJECT  
SCIO CHURCH ROAD  
PROPOSED SIDEWALK PLAN  
STA. 0+00 TO STA. 8+50

SCALE PLAN: 1" = 20'  
DRAWING NO.: C008130678  
SHEET NO.: 8 OF 19



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Call MISS DIG  
3 full working days before you dig:  
Michigan's Utility  
Notification  
One-Call Organization  
1-800-482-7171  
on the net at: www.missdig.org



**REMOVAL KEY**

KEY	DESCRIPTION
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2	SIDEWALK, REM
3	HMA SURFACE, REM
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\* Signs to be protected, salvaged, and provided to City. City to install signs and posts.

**CONSTRUCTION KEY**

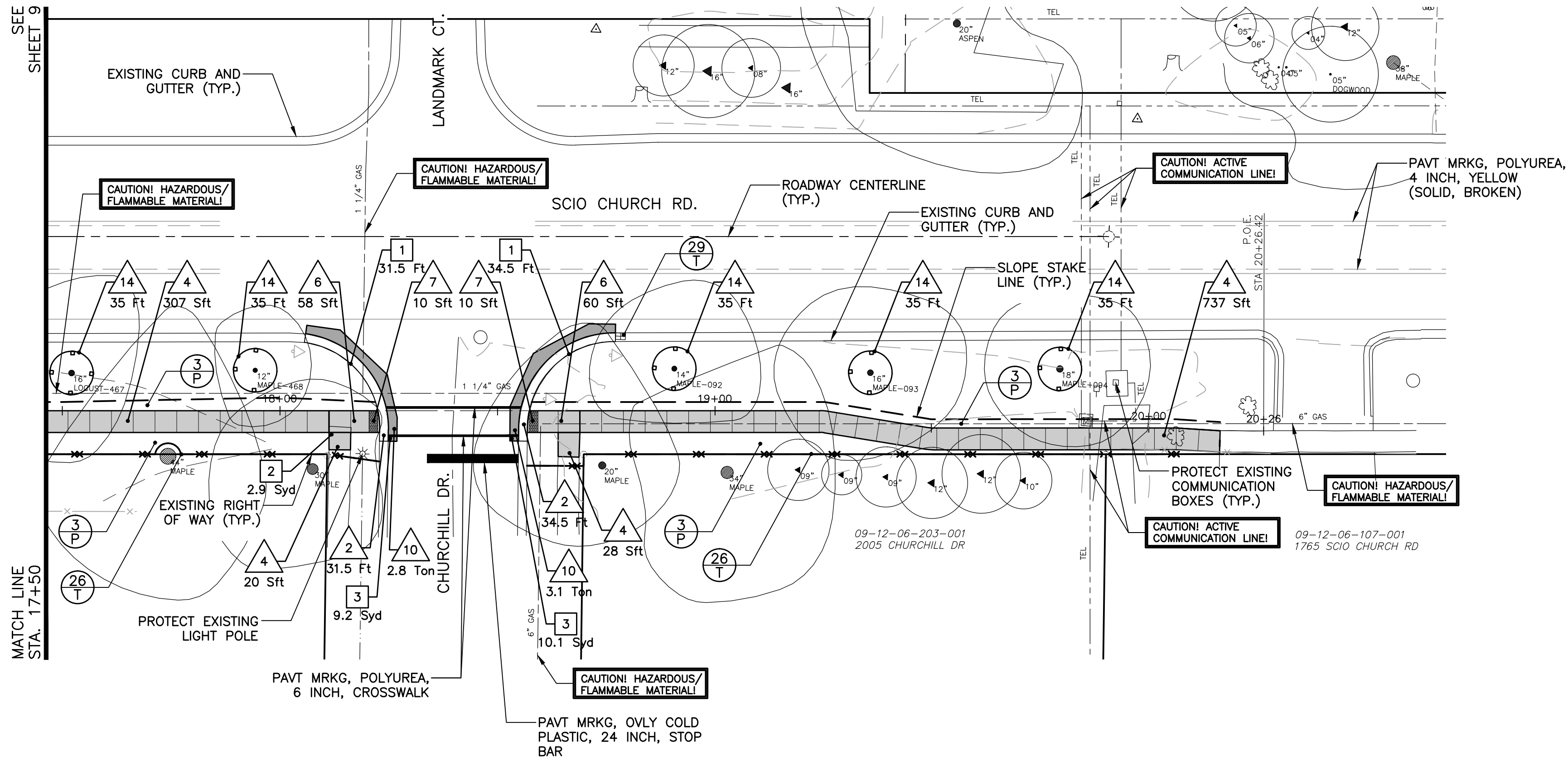
KEY	DESCRIPTION
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9	DRIVEWAY OPENING, CONC, DET M, MODIFIED
10	HAND PATCHING
11	GUARDRAIL, TYPE B **
12	GUARDRAIL APPROACH TERMINAL, TYPE 2B **
13	FENCE, CHAIN LINK, 48 INCH, SPECIAL
14	FENCE, PROTECTIVE
15	MODULAR BLOCK RETAINING WALL
16	AGGREGATE SURFACE CSE, 8 INCH
17	RIPRAP, PLAIN
18	SPILLWAY, CONC
19	DR STRUCTURE, COVER, ADJ, MODIFIED
20	LIRIODENDRON TULIPIFERA, 2 INCH
21	QUERCUS BICOLOR, 2 INCH

\*\* Guardrail installation to be coordinated with Engineer prior to installation.

CITY OF ANN ARBOR  
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301 EAST HURON STREET  
ANN ARBOR, MI 48106-1500  
www.a2gov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
SIDEWALK IMPROVEMENT PROJECT  
SCIO CHURCH ROAD  
PROPOSED SIDEWALK PLAN  
STA. 8+50 TO STA. 17+50

SCALE PLAN: 1" = 20'  
DRAWING NO.: C009130678



Call MISS DIG  
3 full working days before you dig:  
Michigan's Utility Notification Organization  
1-800-482-7171  
on the net at: www.missdig.org

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

**REMOVAL KEY**

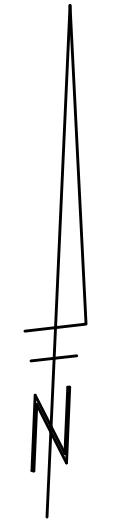
KEY	DESCRIPTION
1	CURB AND GUTTER, REM
2	SIDEWALK, REM
3	HMA SURFACE, REM
4	PAVT, REM
5	FENCE, REM
6	GUARDRAIL, REM
7	SIGN, TYPE III, REM *
8	TREE, REM, 6 INCH TO 18 INCH
9	TREE, REM, 19 INCH TO 36 INCH
10	STUMP, REM, 6 TO 18 INCH
11	DR STRUCTURE, REM

\* Signs to be protected, salvaged, and provided to City. City to install signs and posts.

**CONSTRUCTION KEY**

KEY	DESCRIPTION
1	MOUNTABLE CURB AND GUTTER, CONC, MODIFIED
2	CURB AND GUTTER, CONC, MODIFIED
3	SHOULDER, CL II, MODIFIED
4	SIDEWALK, CONC, 4 INCH
5	SIDEWALK, CONC, 6 INCH
6	SIDEWALK RAMP, CONC, 6 INCH, MODIFIED
7	DETECTABLE WARNING SURFACE, MODIFIED
8	DRIVEWAY, NONREINF CONC, 6 INCH
9	DRIVEWAY OPENING, CONC, DET M, MODIFIED
10	HAND PATCHING
11	GUARDRAIL, TYPE B **
12	GUARDRAIL APPROACH TERMINAL, TYPE 2B **
13	FENCE, CHAIN LINK, 48 INCH, SPECIAL
14	FENCE, PROTECTIVE
15	MODULAR BLOCK RETAINING WALL
16	AGGREGATE SURFACE CSE, 8 INCH
17	RIPRAP, PLAIN
18	SPILLWAY, CONC
19	DR STRUCTURE, COVER, ADJ, MODIFIED
20	LIRIODENDRON TULIPIFERA, 2 INCH
21	QUERCUS BICOLOR, 2 INCH

\*\* Guardrail installation to be coordinated with Engineer prior to installation.



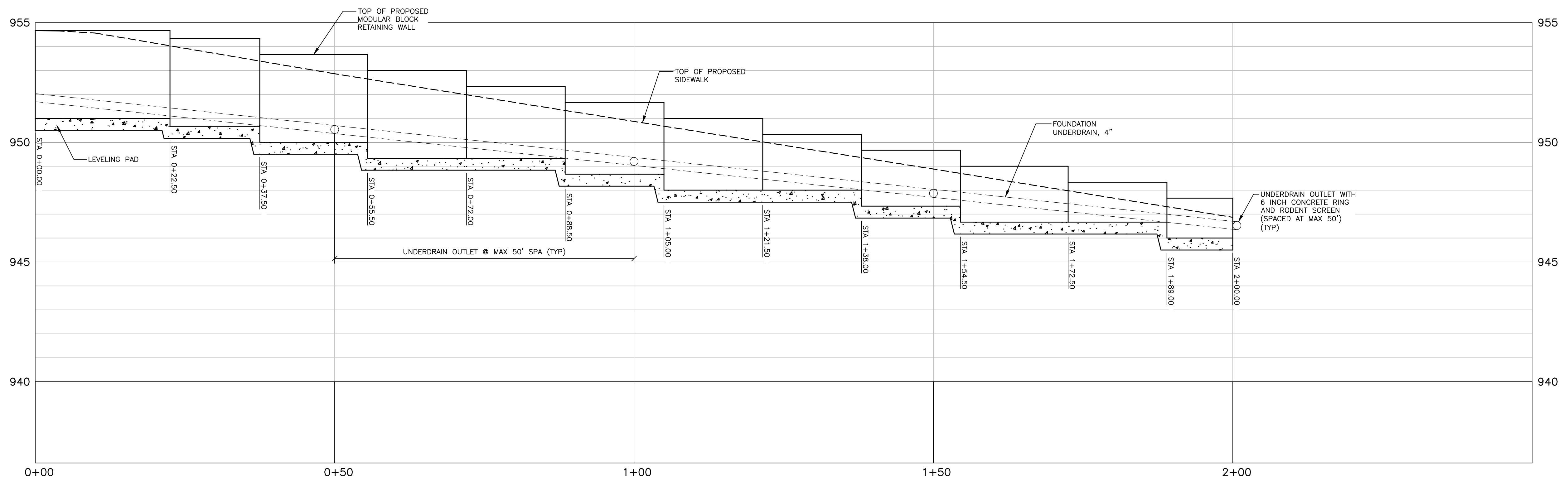
**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**SIDEWALK IMPROVEMENT PROJECT**  
 SCIO CHURCH ROAD  
 PROPOSED SIDEWALK PLAN  
 STA. 17+50 TO STA. 20+26

SCALE PLAN: 1" = 20'  
 DRAWING NO. C010130678

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR  
 PUBLIC SERVICE  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-1800  
 www.a3gov.org

Call MISS DIG  
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Michigan's Utility  
One-Call Notification  
Organization  
1-800-482-7171  
on the net at: www.missdig.org



MODULAR BLOCK RETAINING WALL ELEVATION

STA	STA	TOP/WALL ELEV	TOP/LEVELING PAD ELEV
0+00.00	0+22.50	954.67	951.00
0+22.50	0+37.50	954.33	950.67
0+37.50	0+55.50	953.67	950.00
0+55.50	0+72.00	953.00	949.33
0+72.00	0+88.50	952.33	949.33
0+88.50	1+05.00	951.67	948.67
1+05.00	1+21.50	951.00	948.00
1+21.50	1+38.00	950.33	948.00
1+38.00	1+54.50	949.67	947.33
1+54.50	1+72.50	949.00	946.67
1+72.50	1+89.00	948.33	946.67
1+89.00	2+00.00	947.67	946.00

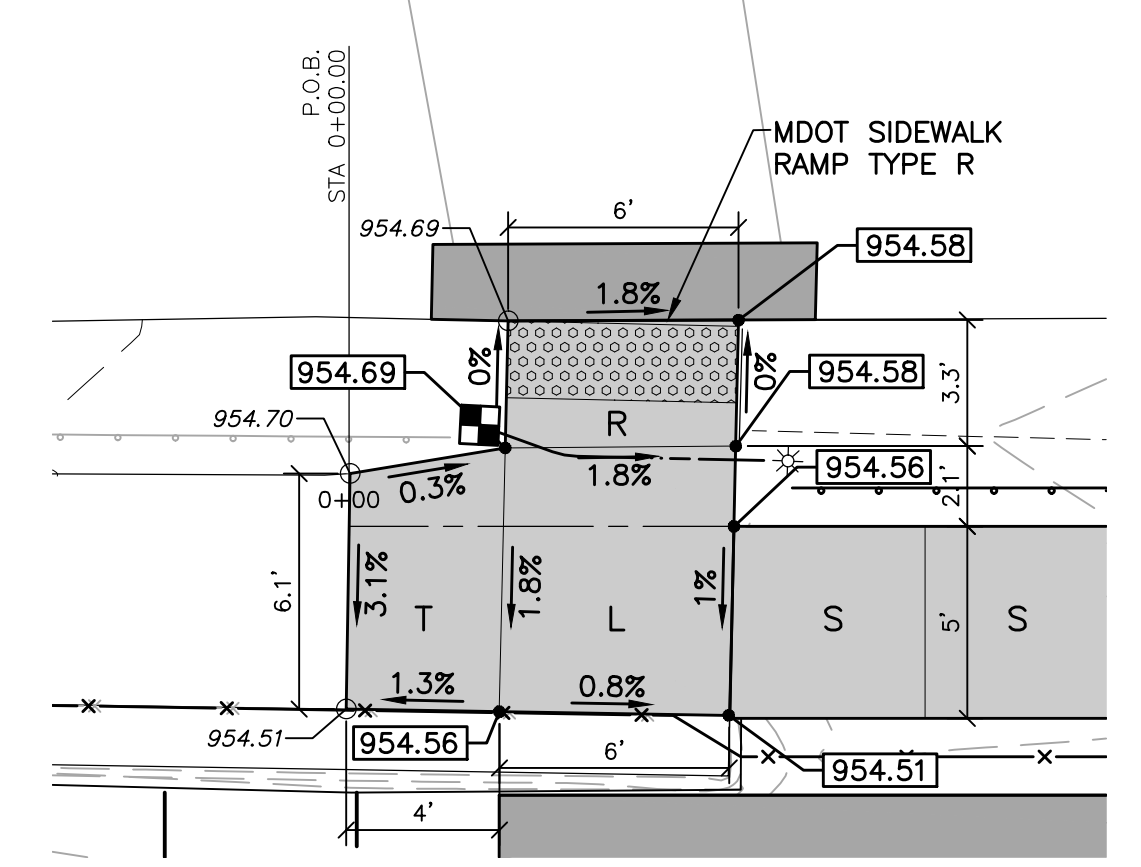
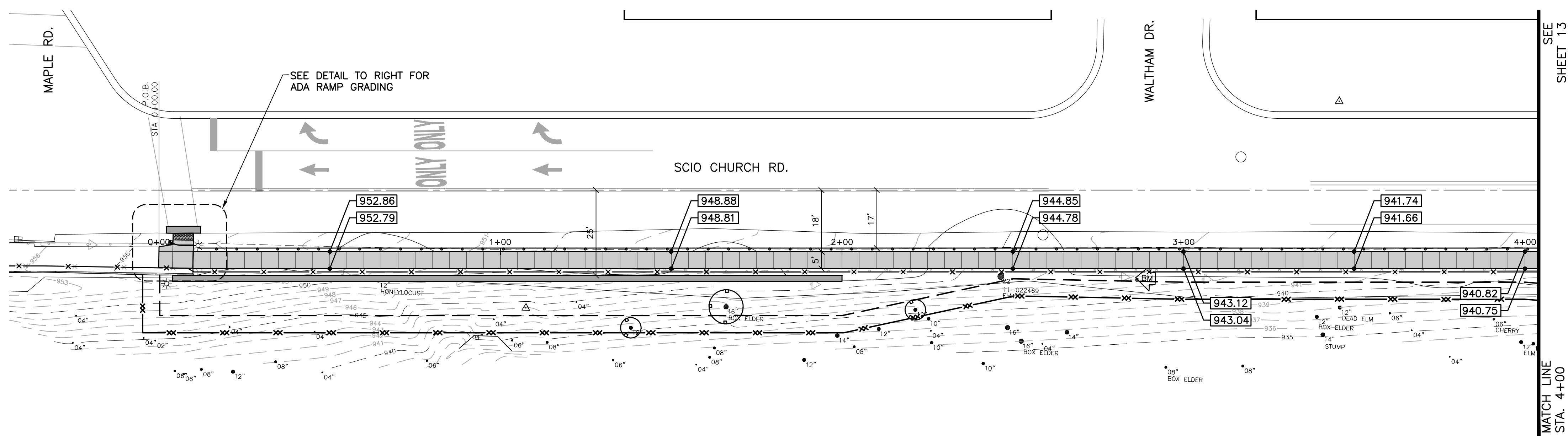
REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR  
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301 EAST HURON STREET  
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www.a2gov.org

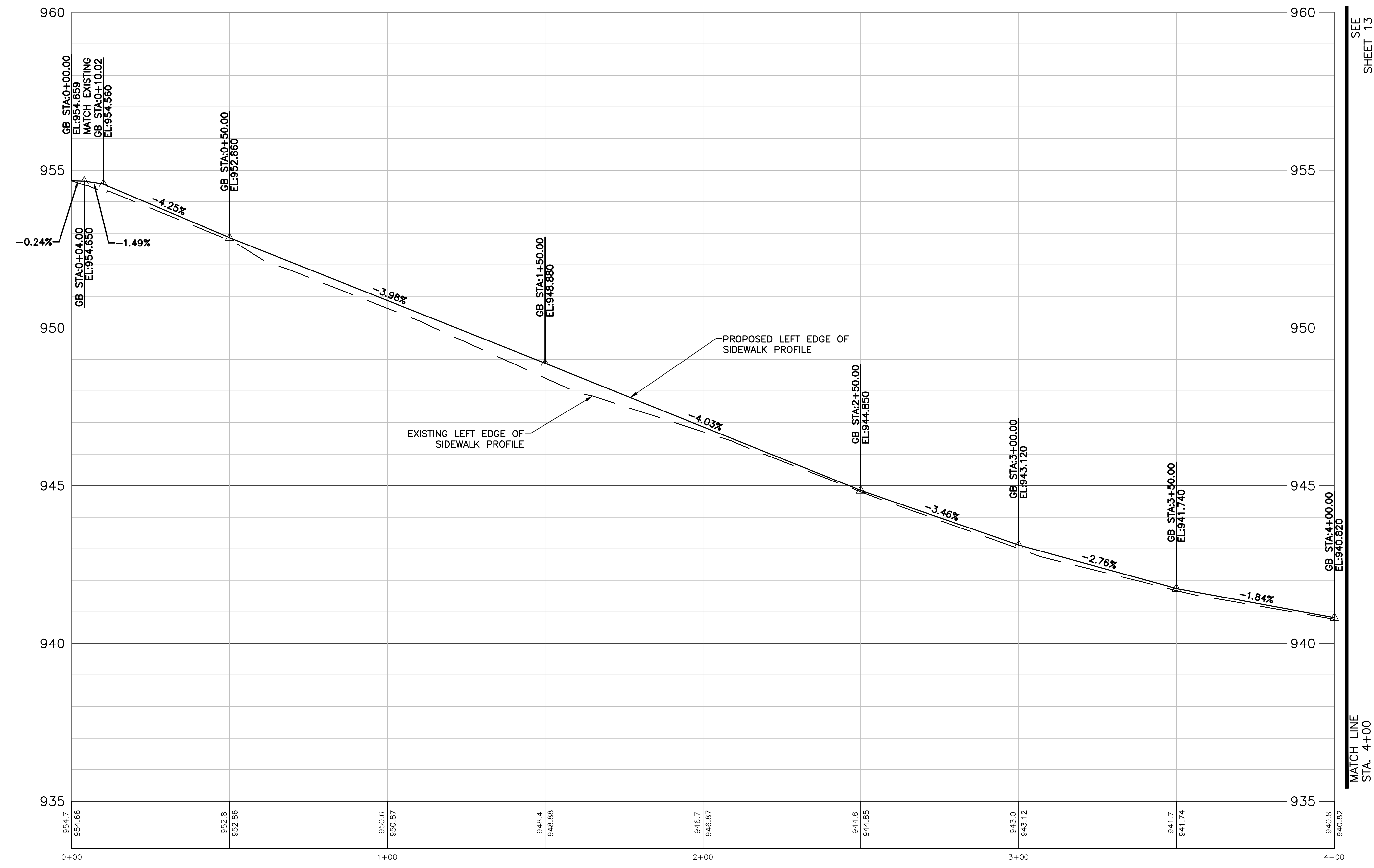
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
SIDEWALK IMPROVEMENT PROJECT  
SCIO CHURCH ROAD  
MODULAR BLOCK RETAINING WALL  
STA. 0+00 TO STA 2+00

SCALE PLAN: 1" = 10'  
DRAWING No. C01130678

Call MISS DIG  
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1-800-482-7171  
on the net at: www.missdig.org

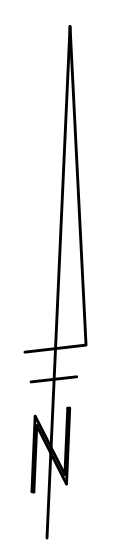


GRADING DETAIL  
MAPLE RD RAMP  
SCALE: 1" = 5'



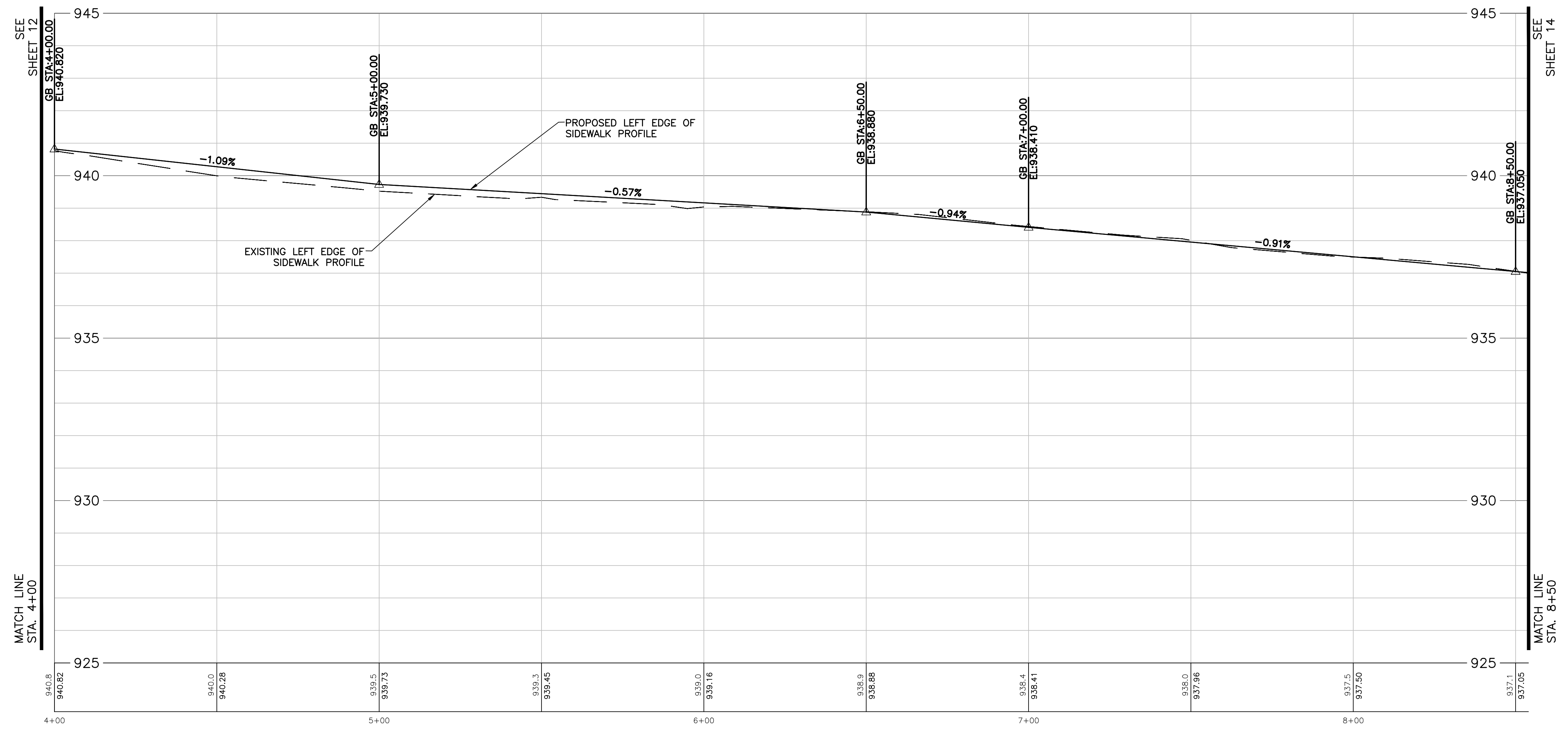
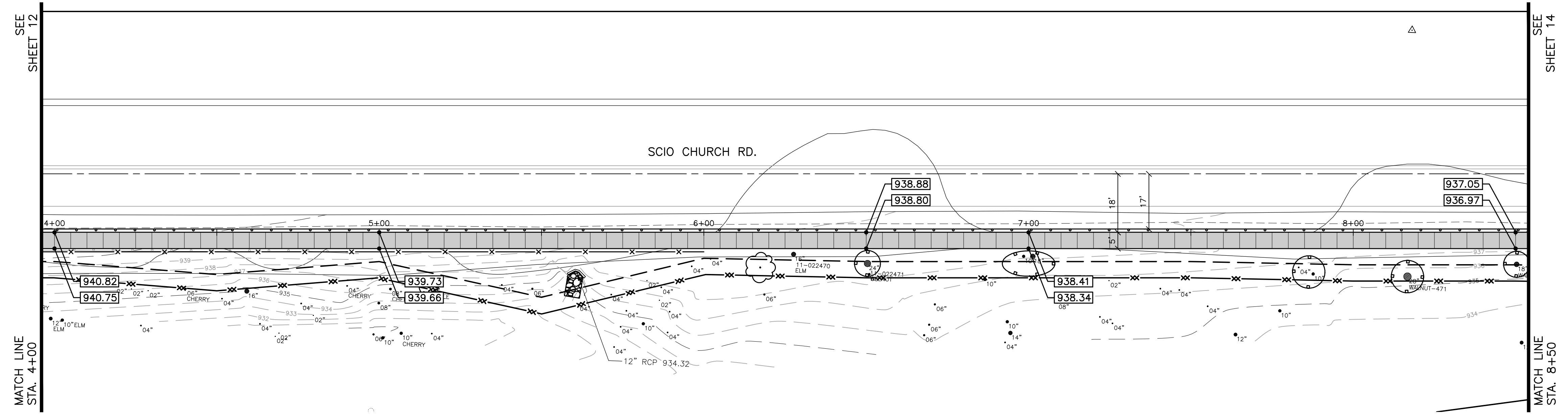
GRADING LEGEND

- XXX.XX PROPOSED ELEVATION
- X.X% PROPOSED SLOPE
- R SIDEWALK RAMP
- L LEVEL LANDING AREA
- S SIDEWALK
- T SIDEWALK TRANSITION
- DETECTABLE WARNING SURFACE



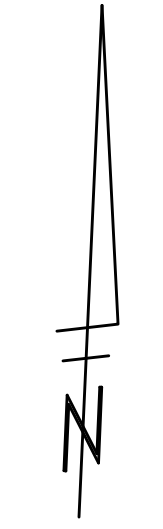
	<b>CITY OF ANN ARBOR</b> PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-3667 www.a2gov.org			
<b>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR</b> SIDEWALK IMPROVEMENT PROJECT SCIO CHURCH ROAD GRADING AND STAKING PLAN STA. 0+00 TO STA. 4+00				
SCALE PLAN: 1" = 20' DRAWING NO. <b>C012130678</b>	SHEET NO. <b>12 OF 19</b>	REV. DESCRIPTION DATE DRAWN CHECKED		

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**GRADING LEGEND**

- XXX.XX PROPOSED ELEVATION
- X.X% PROPOSED SLOPE
- R SIDEWALK RAMP
- L LEVEL LANDING AREA
- S SIDEWALK
- T SIDEWALK TRANSITION
- DETECTABLE WARNING SURFACE

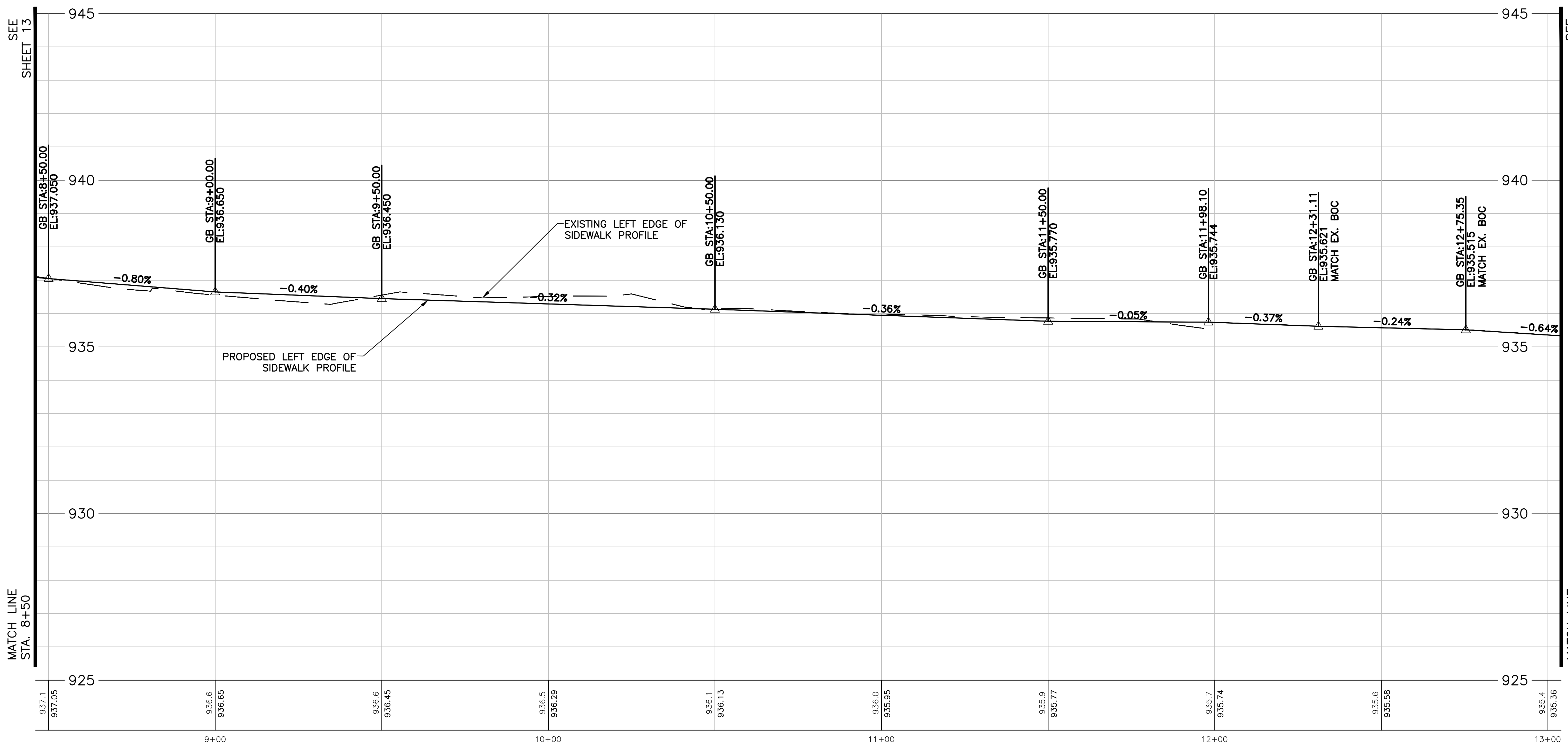
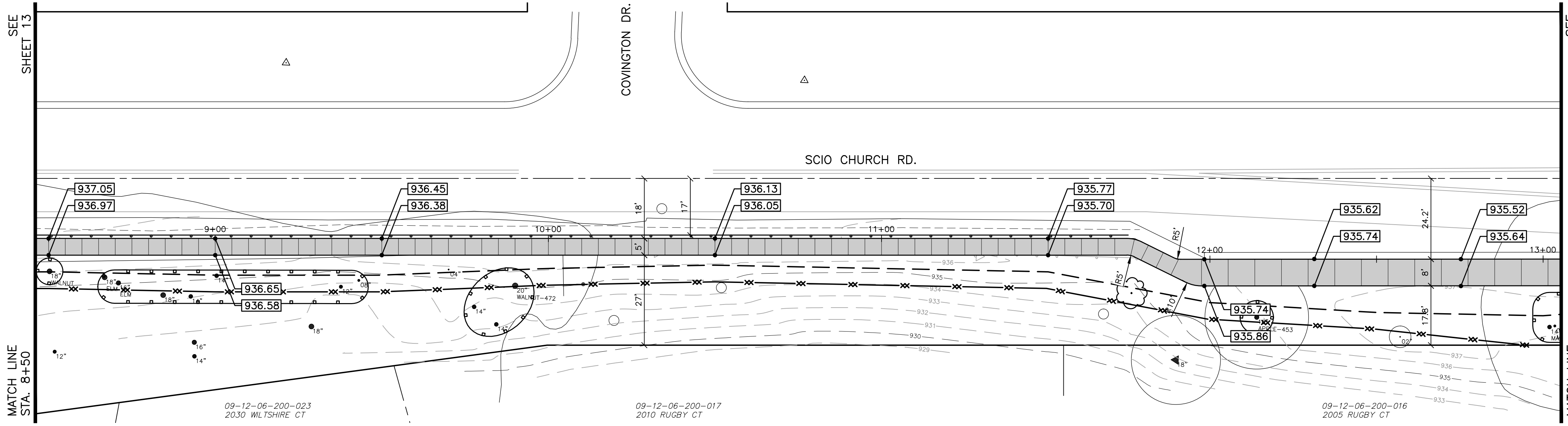


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ANN ARBOR MI 48106-1647  
www.a2gov.org

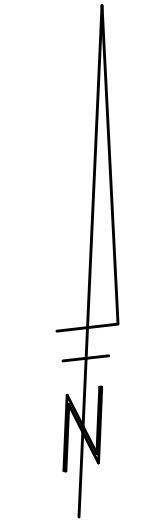
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
SIDEWALK IMPROVEMENT PROJECT  
SCIO CHURCH ROAD  
GRADING AND STAKING PLAN  
STA. 4+00 TO STA. 8+50

SCALE PLAN: 1" = 20'  
DRAWING No. C013130678

REV.	DESCRIPTION	DATE	DRAWN	CHECKED



- GRADING LEGEND**
- XXX.XX PROPOSED ELEVATION
  - PROPOSED SLOPE
  - R SIDEWALK RAMP
  - L LEVEL LANDING AREA
  - S SIDEWALK
  - T SIDEWALK TRANSITION
  - XXXXXX DETECTABLE WARNING SURFACE



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on the net at: www.missdig.org



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR  
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ANN ARBOR, MI 48106-2667  
ANN ARBOR MI 734.754.4410  
www.a2gov.org

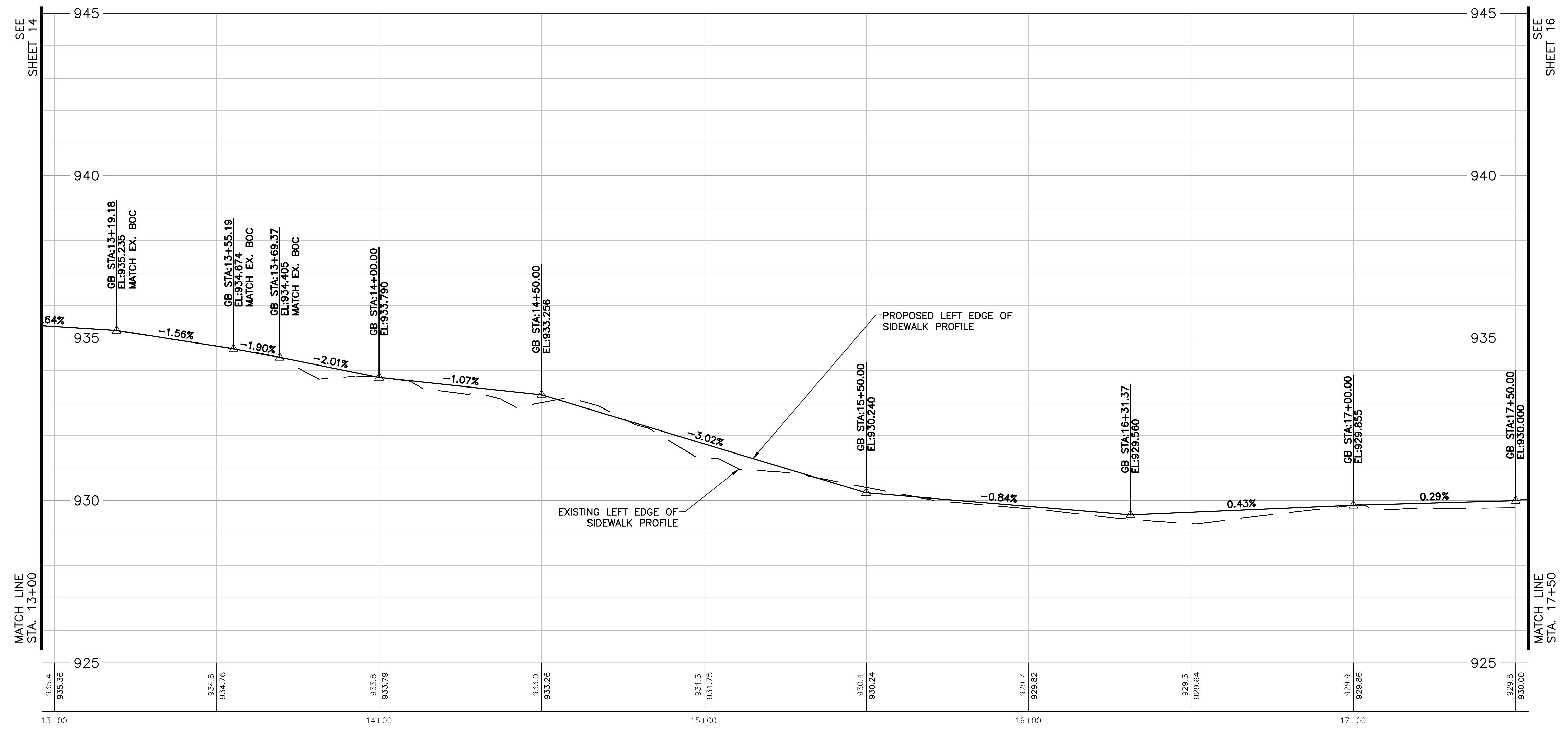
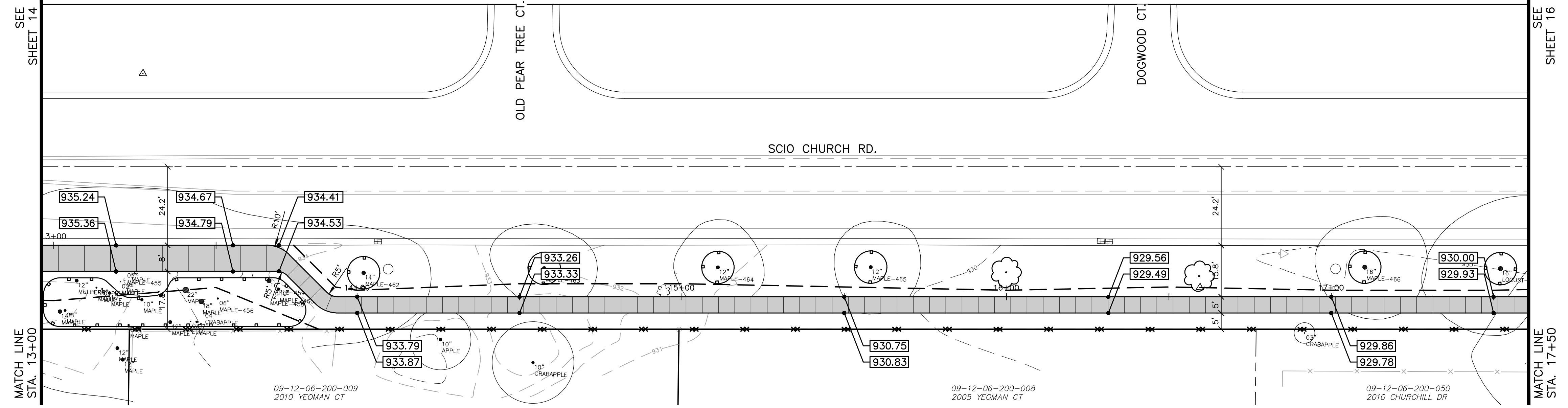
**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
SIDEWALK IMPROVEMENT PROJECT  
SCIO CHURCH ROAD  
GRADING AND STAKING PLAN  
STA. 8+50 TO STA. 13+00

SCALE PLAN: 1" = 20'  
DRAWING NO.  
**C014130678**

Call MISS DIG  
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Michigan's Utility Notification Organization  
1-800-482-7171  
on the net at: www.missdig.org

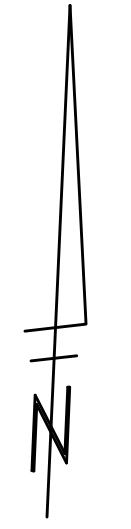


Know what's below.  
Call before you dig.



**GRADING LEGEND**

- XXX.XX PROPOSED ELEVATION
- X.X% PROPOSED SLOPE
- R SIDEWALK RAMP
- L LEVEL LANDING AREA
- S SIDEWALK
- T SIDEWALK TRANSITION
- DETECTABLE WARNING SURFACE



**CITY OF ANN ARBOR**  
PUBLIC SERVICES  
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ANN ARBOR, MI 48106-3647  
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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
SIDEWALK IMPROVEMENT PROJECT  
SCIO CHURCH ROAD  
GRADING AND STAKING PLAN  
STA. 13+00 TO STA. 17+50

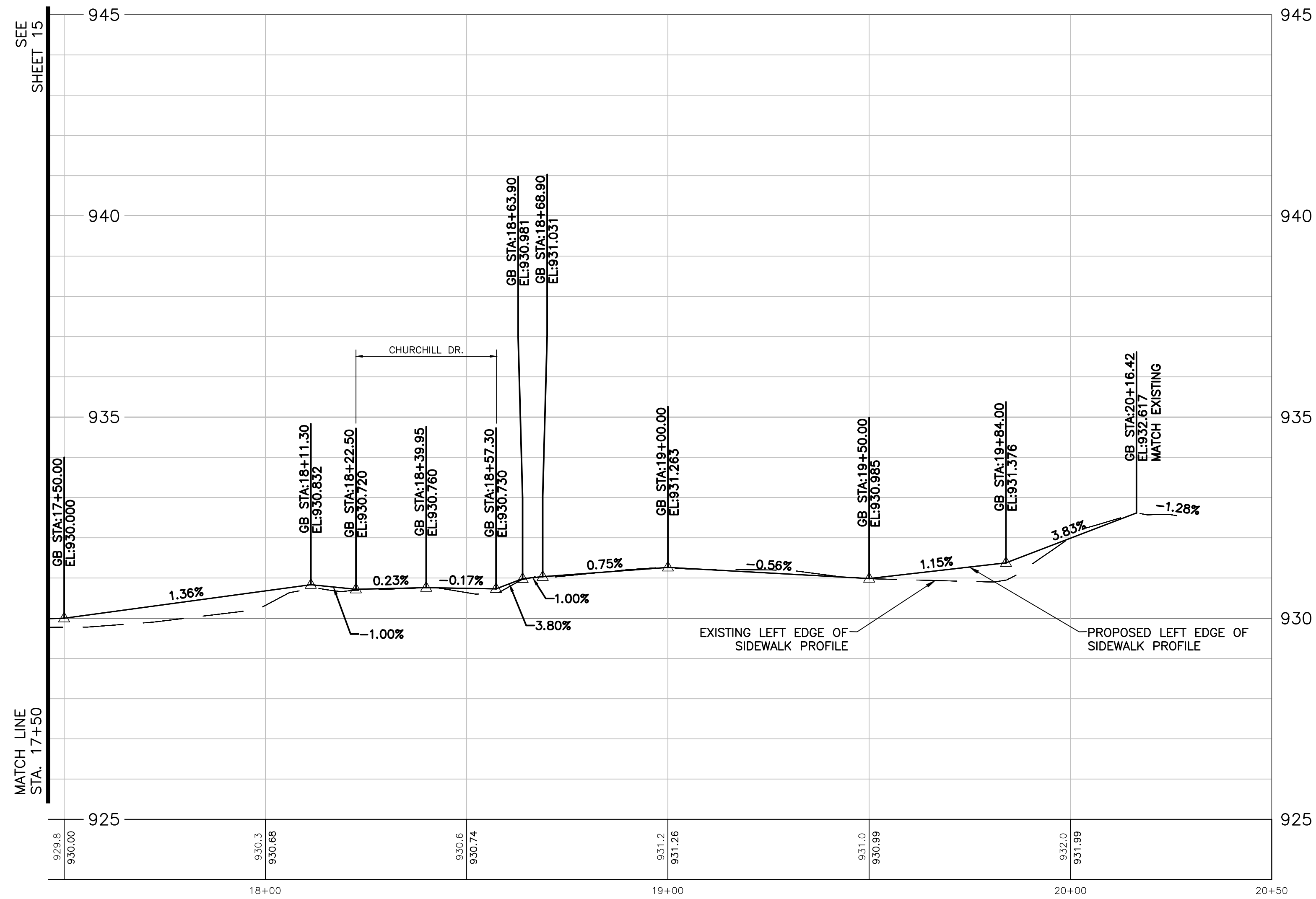
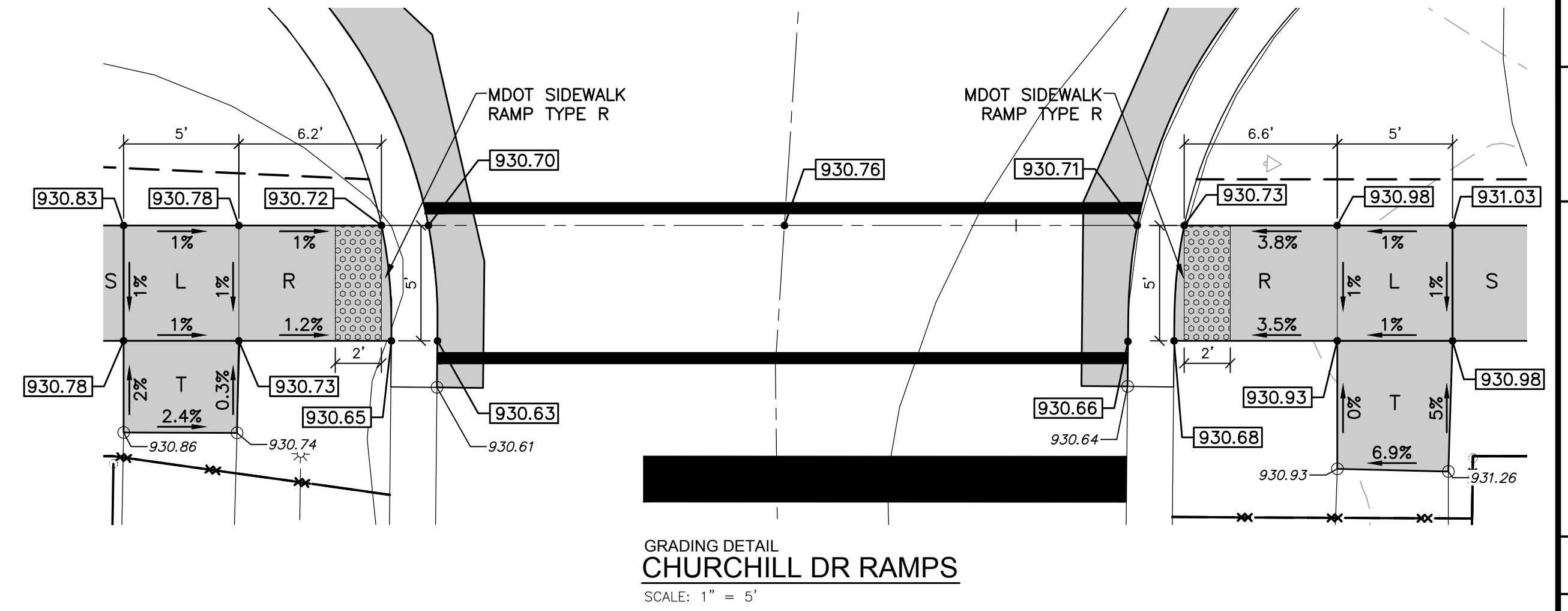
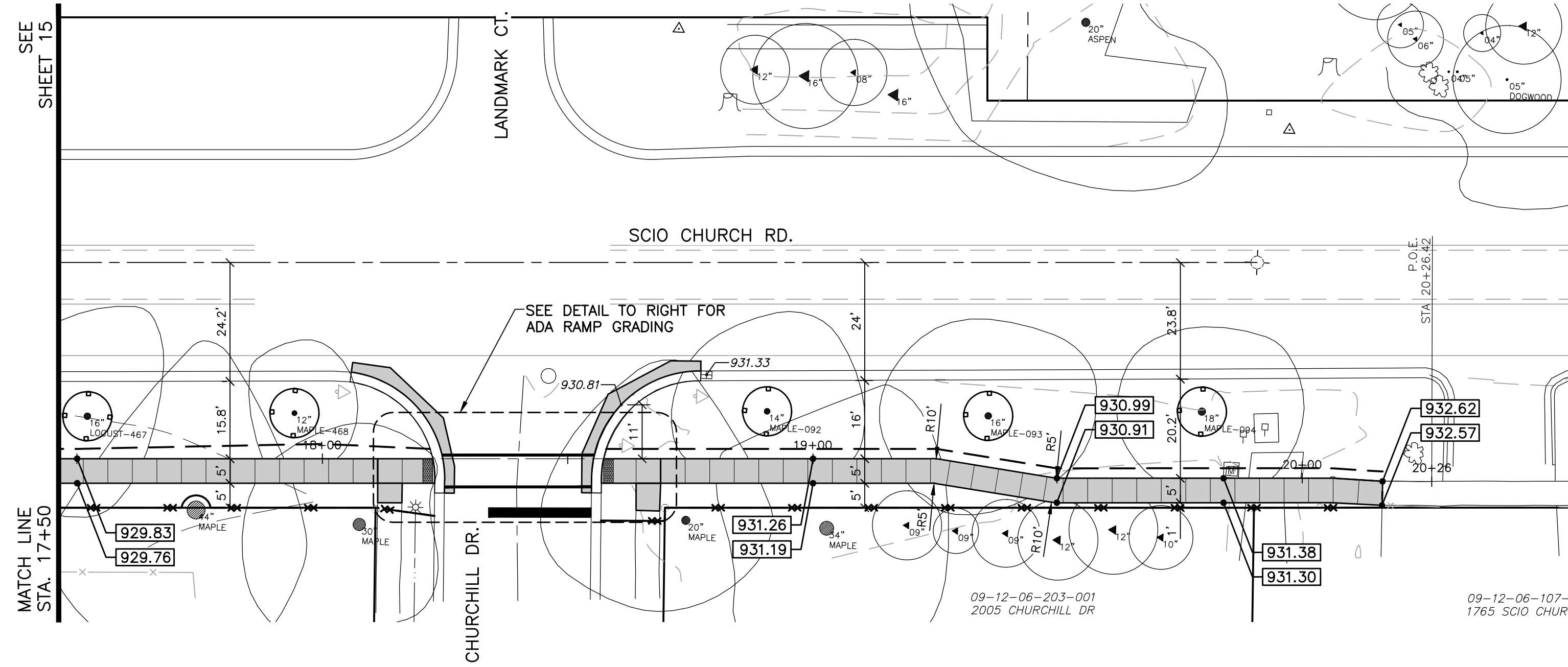
SCALE PLAN: 1" = 20'  
DRAWING No. **C015130678**

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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Organization  
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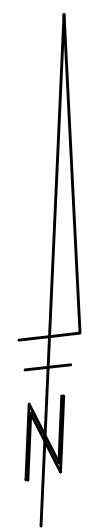


Know what's below.  
Call before you dig.



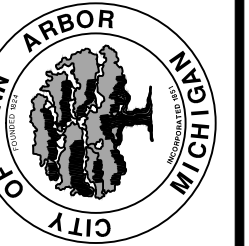
GRADING LEGEND

- XXX.XX PROPOSED ELEVATION
- X.X% PROPOSED SLOPE
- R SIDEWALK RAMP
- L LEVEL LANDING AREA
- S SIDEWALK
- T SIDEWALK TRANSITION
- [Pattern] DETECTABLE WARNING SURFACE



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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



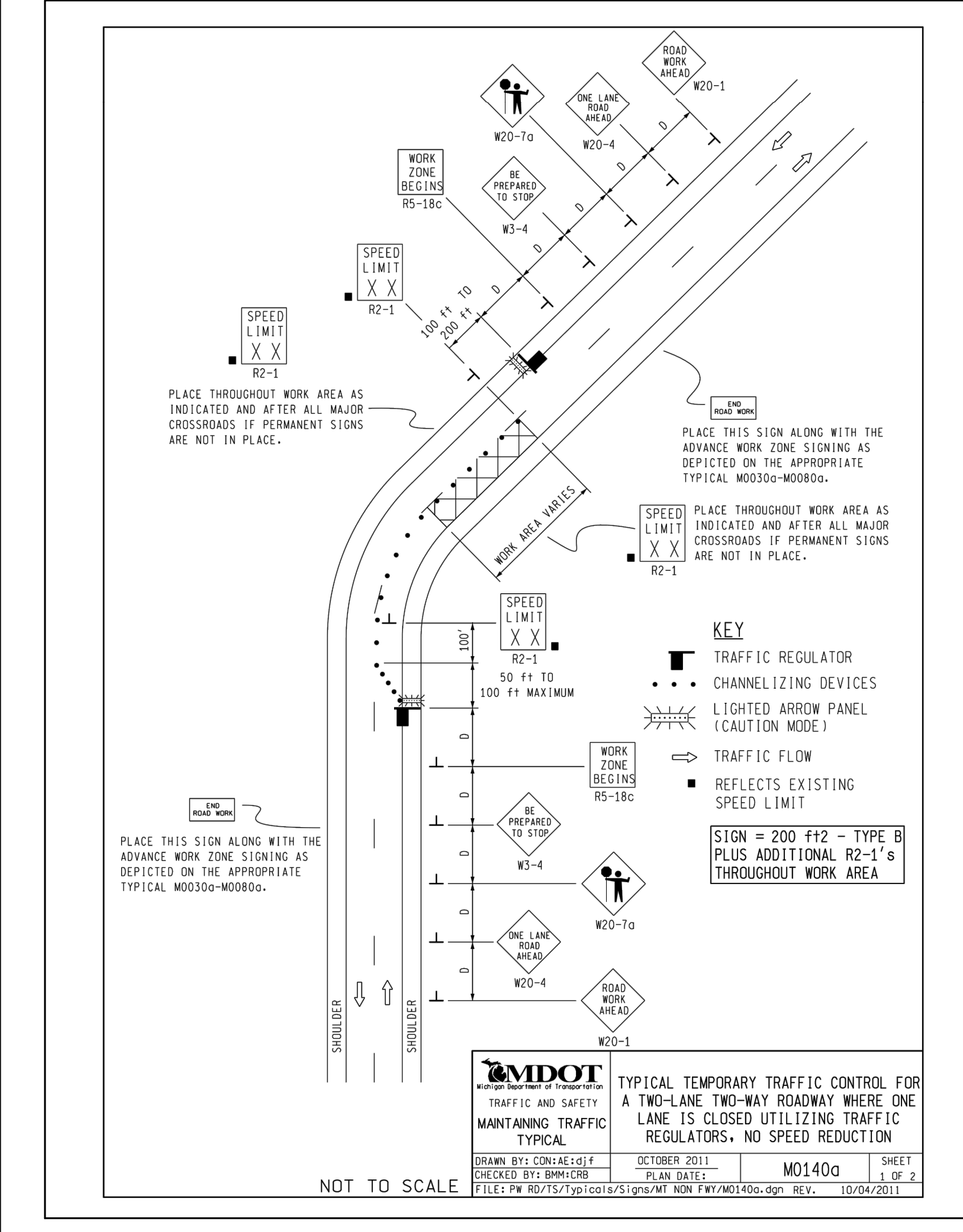
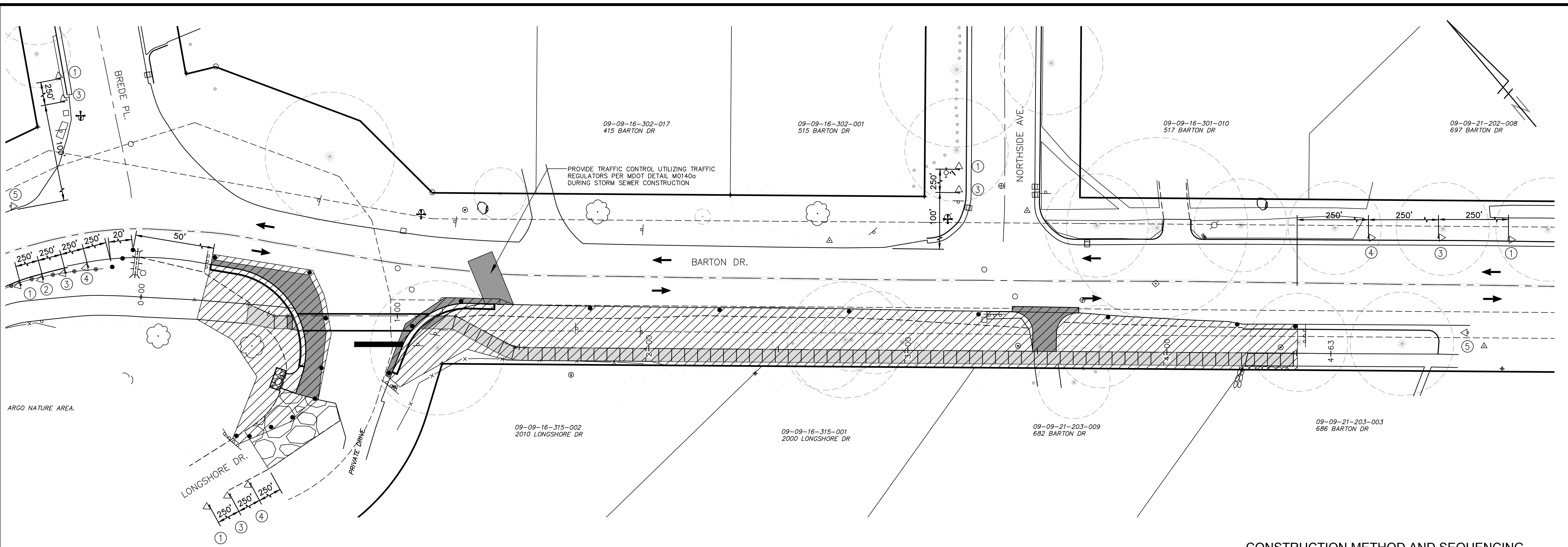
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
SIDEWALK IMPROVEMENT PROJECT  
SCIO CHURCH ROAD  
GRADING AND STAKING PLAN  
STA. 17+50 TO STA. 20+26

SCALE PLAN: 1" = 20'  
DRAWING No.  
C016130678

SHEET No.



Z:\2013\130678\CAD\CD\017130678.dwg Dwg Created: 20-Jan-14 - e2 standard bw.stb - Plot Date: 28-Mar-14



**NOTES**

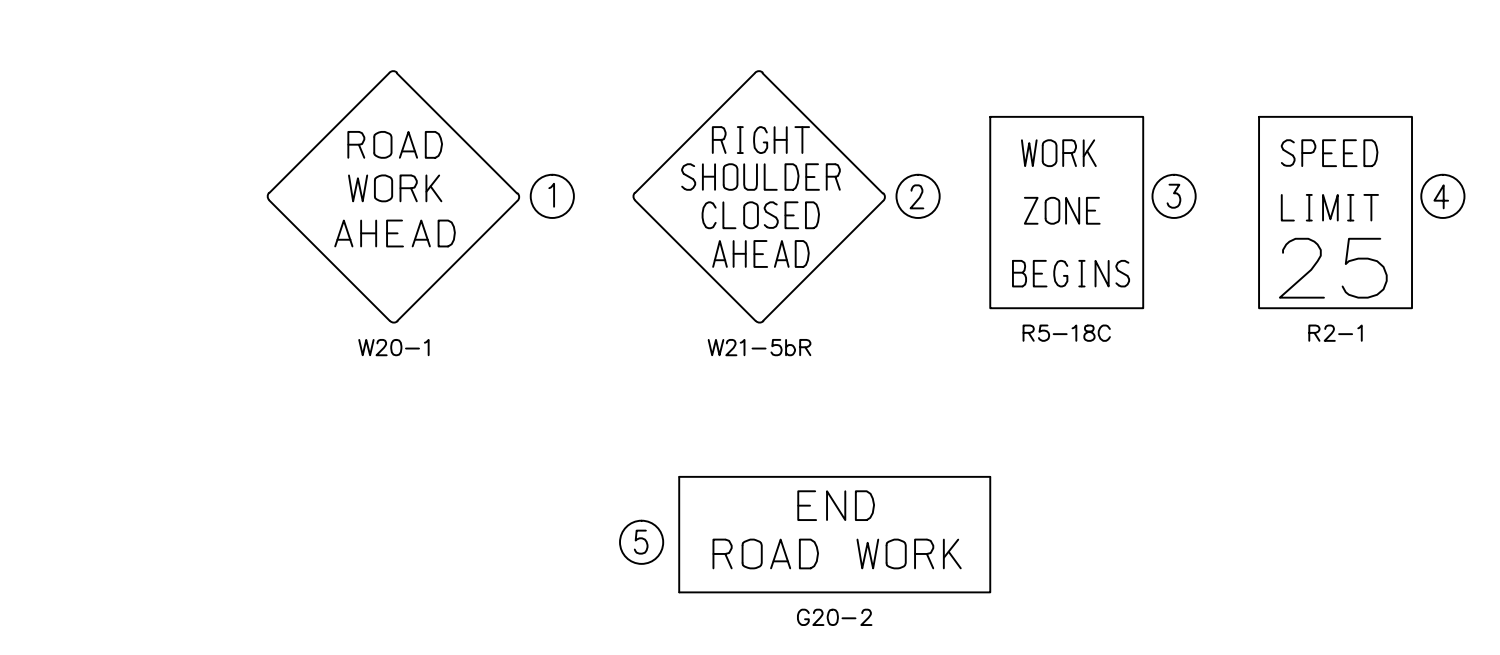
- D = DISTANCE BETWEEN TRAFFIC CONTROL DEVICES AND LENGTH OF LONGITUDINAL BUFFERS. SEE M0020g FOR "D" VALUES.
- ALL NON-APPLICABLE SIGNING WITHIN THE CIA SHALL BE MODIFIED TO FIT CONDITIONS, COVERED OR REMOVED.
- DISTANCES BETWEEN SIGNS, THE VALUES FOR WHICH ARE SHOWN IN TABLE D, ARE APPROXIMATE AND MAY NEED ADJUSTING AS DIRECTED BY THE ENGINEER.
- THE "WORK ZONE BEGINS" (R5-18c) SIGN SHALL BE USED ONLY IN THE INITIAL SIGNING SEQUENCE IN THE WORK ZONE. SUBSEQUENT SEQUENCES IN THE SAME WORK ZONE SHALL OMIT THIS SIGN AND THE QUANTITIES SHALL BE ADJUSTED APPROPRIATELY.
- THE MAXIMUM RECOMMENDED DISTANCE(S) BETWEEN CHANNELIZING DEVICES IN THE TAPER AREA(S) SHOULD BE 15 FEET AND SHOULD BE EQUAL IN FEET TO TWICE THE POSTED SPEED IN MILES PER HOUR IN THE PARALLEL AREAS(I).
- FOR OVERNIGHT CLOSURES, TYPE 111 BARRICADES SHALL BE LIGHTED.
- WHEN CALLED FOR IN THE FHWA ACCEPTANCE LETTER FOR THE SIGN SYSTEM SELECTED, THE TYPE A WARNING FLASHER, SHOWN ON THE WARNING SIGNS, SHALL BE POSITIONED ON THE SIDE OF THE SIGN NEAREST THE ROADWAY.
- ALL TEMPORARY SIGNS, TYPE 111 BARRICADES, THEIR SUPPORT SYSTEMS AND LIGHTING REQUIREMENTS SHALL MEET NCHRP 350 CRASHWORTHY REQUIREMENTS STIPULATED IN THE CURRENT EDITION OF THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE STANDARD PLANS AND APPLICABLE SPECIAL PROVISIONS. ONLY DESIGNS AND MATERIALS APPROVED BY MDT WILL BE ALLOWED.
- ALL TRAFFIC REGULATORS SHALL BE PROPERLY TRAINED AND SUPERVISED.
- IN ANY OPERATION INVOLVING MORE THAN ONE TRAFFIC REGULATOR, ONE PERSON SHOULD BE DESIGNATED AS HEAD TRAFFIC REGULATOR.
- ALL TRAFFIC REGULATORS' CONDUCT, THEIR EQUIPMENT, AND TRAFFIC REGULATING PROCEDURES SHALL CONFORM TO THE CURRENT EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUCD) AND THE CURRENT EDITION OF THE MDT HANDBOOK ENTITLED "TRAFFIC REGULATORS INSTRUCTION MANUAL."
- WHEN TRAFFIC REGULATING IS ALLOWED DURING THE HOURS OF DARKNESS, APPROPRIATE LIGHTING SHALL BE PROVIDED TO SUFFICIENTLY ILLUMINATE THE TRAFFIC REGULATOR'S STATIONS.
- THE MAXIMUM DISTANCE BETWEEN THE TRAFFIC REGULATORS SHALL BE NO MORE THAN 2 MILES IN LENGTH UNLESS RESTRICTED FURTHER IN THE SPECIAL PROVISIONS FOR MAINTAINING TRAFFIC. ALL SEQUENCES OF MORE THAN 2 MILES IN LENGTH WILL REQUIRE WRITTEN PERMISSION FROM THE ENGINEER BEFORE PROCEEDING.
- WHEN INTERSECTING ROADS OR SIGNIFICANT TRAFFIC GENERATORS (SHOPPING CENTERS, MOBILE HOME PARKS, ETC.) OCCUR WITHIN THE ONE-LANE TWO-WAY OPERATION, INTERMEDIATE TRAFFIC REGULATORS AND APPROPRIATE SIGNING SHALL BE PLACED AT THESE LOCATIONS.
- ADDITIONAL SIGNING AND/OR ELONGATED SIGNING SEQUENCES SHOULD BE USED WHEN TRAFFIC VOLUMES ARE SIGNIFICANT ENOUGH TO CREATE BACKUPS BEYOND THE W3-4 SIGNS.
- THE HAND HELD (PADDLE) SIGNS REQUIRED BY THE MMUCD TO CONTROL TRAFFIC WILL BE PAID FOR AS PART OF FLAG CONTROL.
- THE TRAFFIC REGULATORS SHOULD BE POSITIONED AT OR NEAR THE SIDE OF THE ROAD SO THAT THEY ARE SEEN CLEARLY AT A MINIMUM DISTANCE OF 500 FEET. THIS MAY REQUIRE EXTENDING THE BEGINNING OF THE LANE CLOSURE TO OVERCOME VIEWING PROBLEMS CAUSED BY HILLS AND CURVES.

**SIGN SIZES**

DIAMOND WARNING - 48" x 48"  
R2-1 REGULATORY - 48" x 60"  
R5-18c REGULATORY - 48" x 48"

**MDOT**  
TRAFFIC AND SAFETY  
MAINTAINING TRAFFIC  
TYPICAL

DRAWN BY: CON/AE/df  
CHECKED BY: DMK/CRB  
FILE: PW 00/TS/Typical/Signs/MT NON FRY/M0140a.dgn REV. 10/04/2011



**CONSTRUCTION METHOD AND SEQUENCING**

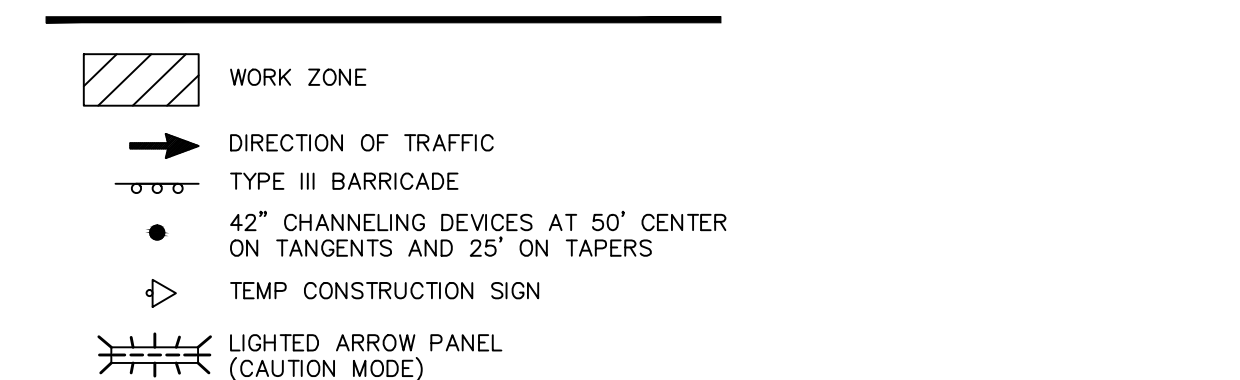
IT IS THE INTENT OF THE FOLLOWING SEQUENCE OF CONSTRUCTION TO PROVIDE A WORK AREA FOR THE CONTRACTOR WHILE ALSO MAINTAINING TRAFFIC IN A MANNER WHICH IS SAFE FOR THE TRAVELING PUBLIC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE, SCHEDULE, AND OVERSEE ALL UTILITY RELOCATIONS AND ADJUSTMENTS. THE CONTRACTOR SHALL ACCOUNT FOR ALL SUCH EFFORT IN THE CONSTRUCTION SCHEDULE. ALL TEMPORARY OR PERMANENT PAVEMENT MARKINGS AND SIGNING SHALL BE IN PLACE BEFORE ANY PAVEMENT IS OPENED TO TRAFFIC. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.

- IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- PERFORM ALL REMOVALS AND TEMPORARY RESTORATIONS TO ALLOW ACCESS TO PROPERTIES ON BARTON DRIVE AND SCIO CHURCH ROAD.
- BRING UP BASE COURSE MATERIAL. CONTRACTOR SHALL NOT LEAVE EXCAVATIONS OPEN OVER NIGHT.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- PERFORM PAVEMENT STRUCTURE INSTALLATION AND RELATED IMPROVEMENT IN INCREMENTS THAT ALLOW ACCESS TO PROPERTIES ON BARTON DRIVE PER PLANS, AND AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL NOT LEAVE EXCAVATIONS OPEN OVER NIGHT.
- COMPLETE ALL MISCELLANEOUS SIDEWALK AND CONSTRUCTION ITEMS, INCLUDING CLEAN-UP AND FINAL RESTORATION.
- REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

**TRAFFIC CONTROLS**

- THE NECESSARY SIGNS AND SIGN SUPPORT STANDARDS, BARRICADES, AND TRAFFIC CONTROL DEVICES NECESSARY FOR THE PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS APPROVED BY THE CITY OF ANN ARBOR. ALL SUCH DEVICES SHALL BE FURNISHED, INSTALLED, AND MAINTAINED BY THE CONTRACTOR.
- REFER TO CITY SPECIFICATIONS FOR DETAILS ON MATERIALS, EQUIPMENT, AND CONSTRUCTION METHODS.
- ALL POSTS TO BE DRIVEN INTO GROUND.
- CONTRACTOR TO FIELD STAKE ALL SIGNS AND CONTACT CITY FOR REVIEW AND APPROVAL OF SIGN PLACEMENT PRIOR TO INSTALLATION.
- ACCESS TO DRIVEWAYS AND CROSS ROADS MUST BE MAINTAINED AT ALL TIME. 2 DAYS NOTICE MUST PROVIDED BEFORE TEMPORARY CLOSURES.
- REFER TO MDT STANDARD DETAIL M0140g DURING LANE CLOSURES.

**LEGEND**



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

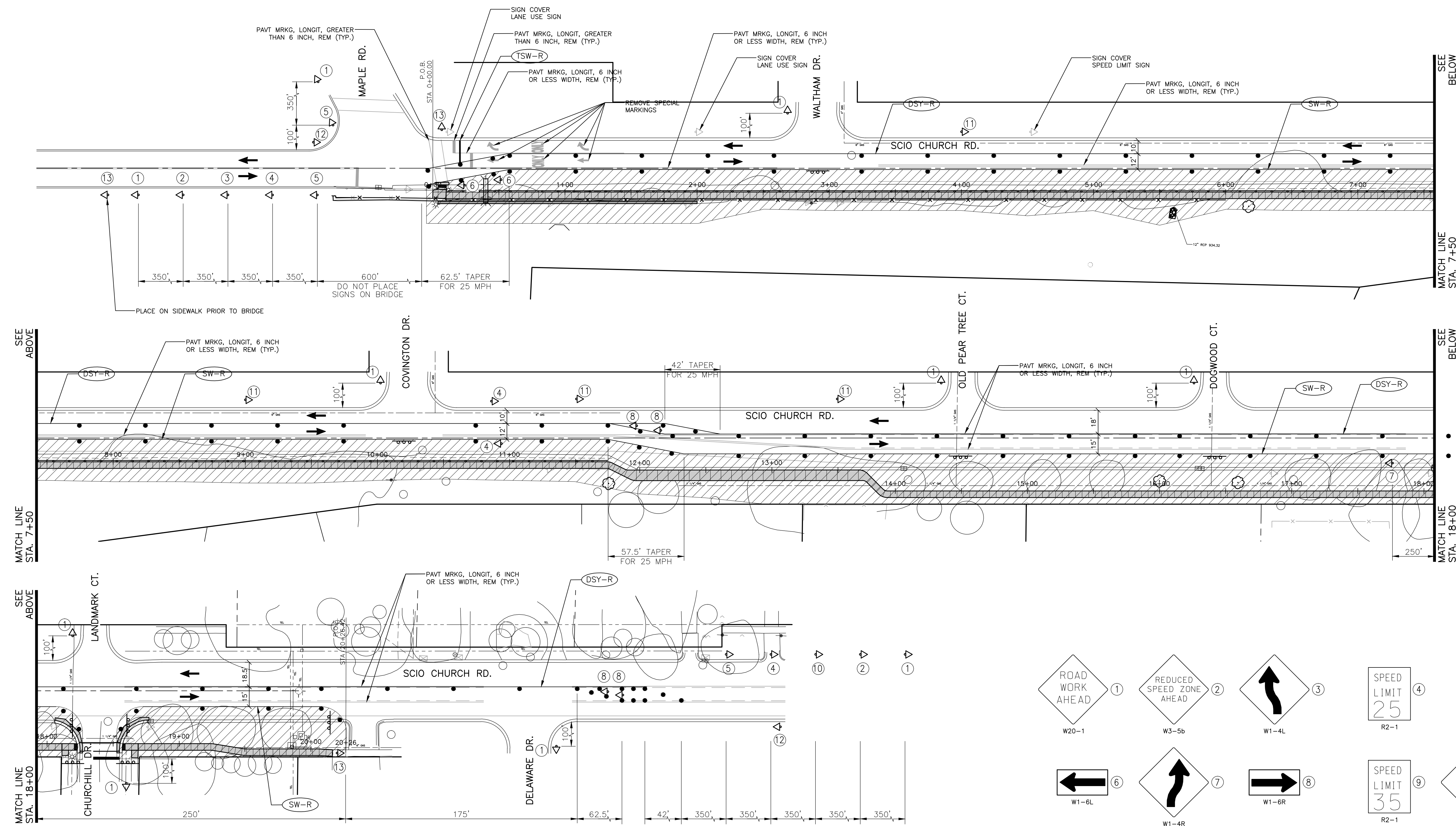
NO.	DESCRIPTION	DATE	BY

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-0001  
www.a2gov.org

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**SIDEWALK IMPROVEMENT PROJECT**  
BARTON DRIVE  
TEMPORARY TRAFFIC CONTROL

SCALE PLAN: 1" = 20'  
DRAWING NO.: C017130678  
SHEET NO. 17 OF 19

Call MISS DIG  
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Notification  
Organization  
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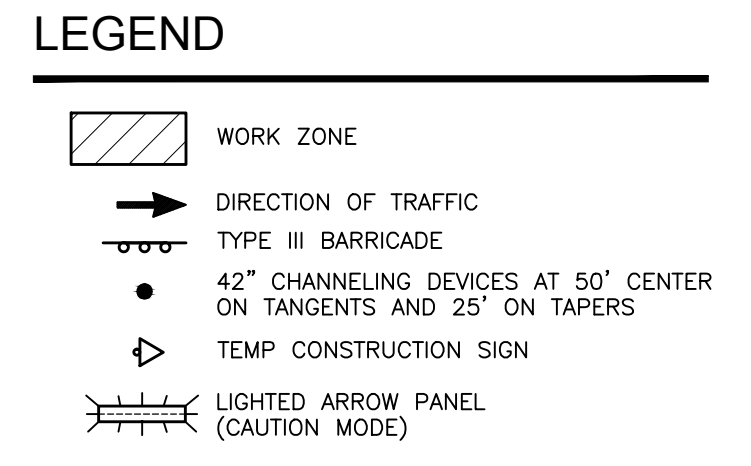
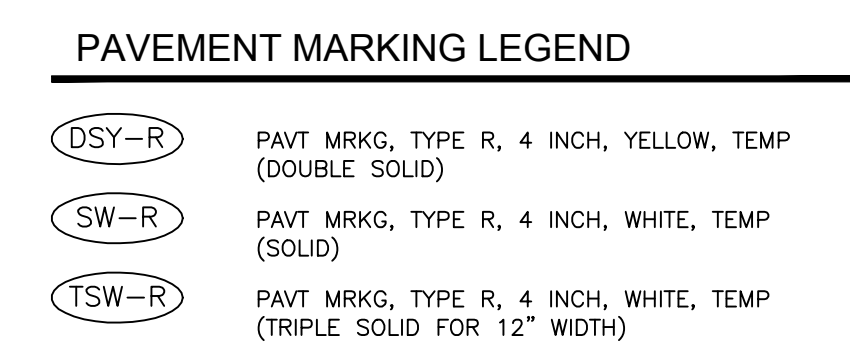
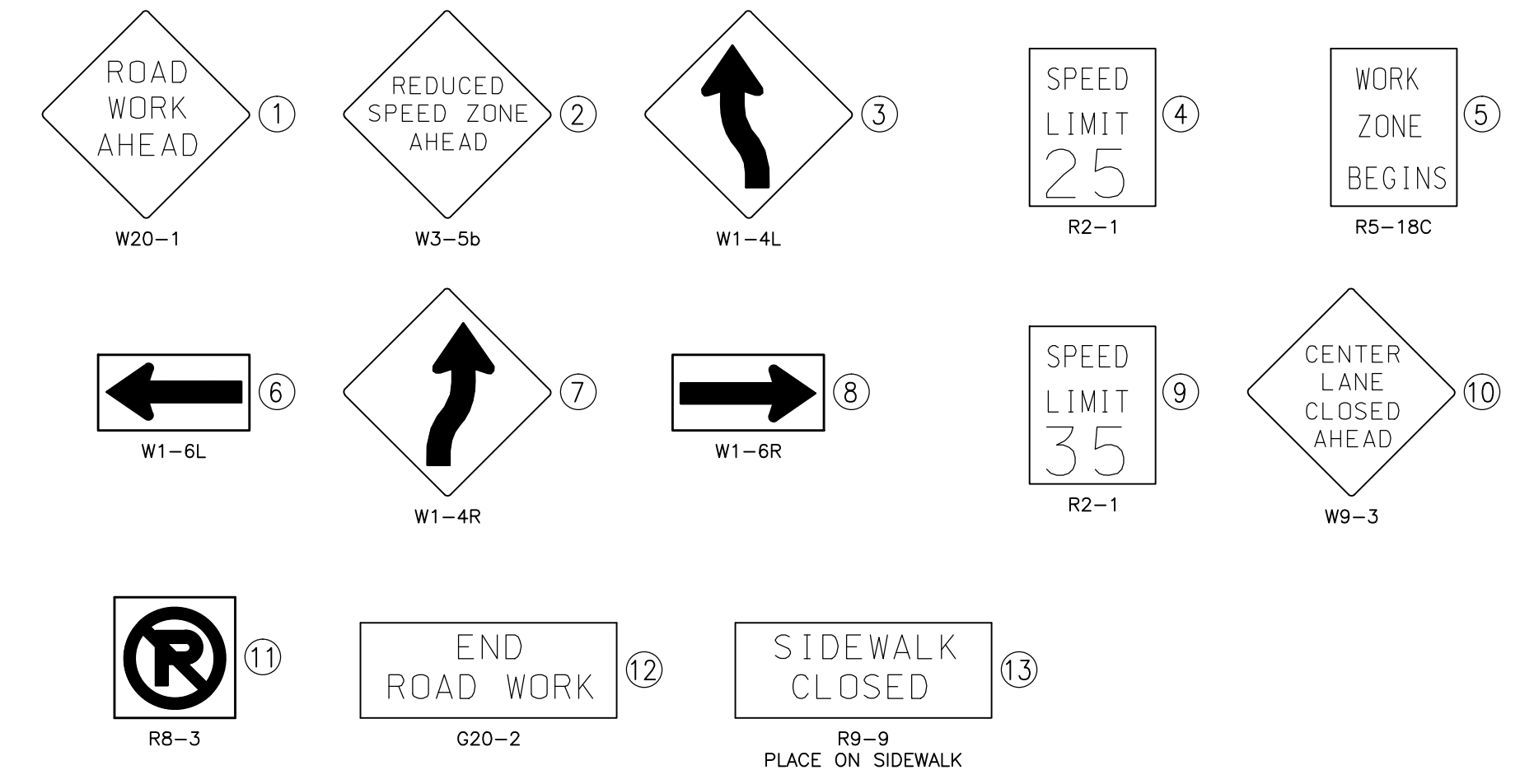


SEE BELOW  
MATCH LINE  
STA. 7+50

SEE BELOW  
MATCH LINE  
STA. 18+00

SEE ABOVE  
MATCH LINE  
STA. 7+50

SEE ABOVE  
MATCH LINE  
STA. 18+00



**CONSTRUCTION METHOD AND SEQUENCING**

- IT IS THE INTENT OF THE FOLLOWING SEQUENCE OF CONSTRUCTION TO PROVIDE A WORK AREA FOR THE CONTRACTOR WHILE ALSO MAINTAINING TRAFFIC IN A MANNER WHICH IS SAFE FOR THE TRAVELING PUBLIC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE, SCHEDULE, AND OVERSEE ALL UTILITY RELOCATIONS AND ADJUSTMENTS. THE CONTRACTOR SHALL ACCOUNT FOR ALL SUCH EFFORT IN THE CONSTRUCTION SCHEDULE. ALL TEMPORARY OR PERMANENT PAVEMENT MARKINGS AND SIGNING SHALL BE IN PLACE BEFORE ANY PAVEMENT IS OPENED TO TRAFFIC. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
- IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
  - PERFORM ALL REMOVALS AND TEMPORARY RESTORATIONS TO ALLOW ACCESS TO PROPERTIES ON BARTON DRIVE AND SCIO CHURCH ROAD.
  - BRING UP BASE COURSE MATERIAL. CONTRACTOR SHALL NOT LEAVE EXCAVATIONS OPEN OVER NIGHT.
  - PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
  - PERFORM PAVEMENT STRUCTURE INSTALLATION AND RELATED IMPROVEMENT IN INCREMENTS THAT ALLOW ACCESS TO PROPERTIES ON SCIO CHURCH ROAD PER PLANS, AND AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL NOT LEAVE EXCAVATIONS OPEN OVER NIGHT.
  - COMPLETE ALL MISCELLANEOUS SIDEWALK AND CONSTRUCTION ITEMS, INCLUDING CLEAN-UP AND FINAL RESTORATION.
  - REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

**TRAFFIC CONTROLS**

- THE NECESSARY SIGNS AND SIGN SUPPORT STANDARDS, BARRICADES, AND TRAFFIC CONTROL DEVICES NECESSARY FOR THE PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS APPROVED BY THE CITY OF ANN ARBOR. ALL SUCH DEVICES SHALL BE FURNISHED, INSTALLED, AND MAINTAINED BY THE CONTRACTOR.
- REFER TO CITY SPECIFICATIONS FOR DETAILS ON MATERIALS, EQUIPMENT, AND CONSTRUCTION METHODS.
- ALL POSTS TO BE DRIVEN INTO GROUND.
- CONTRACTOR TO FIELD STAKE ALL SIGNS AND CONTACT CITY FOR REVIEW AND APPROVAL OF SIGN PLACEMENT PRIOR TO INSTALLATION.
- ACCESS TO DRIVEWAYS AND CROSS ROADS MUST BE MAINTAINED AT ALL TIME. 2 DAYS NOTICE MUST PROVIDED BEFORE TEMPORARY CLOSURES.
- REFER TO MDOT STANDARD DETAIL M0140g DURING LANE CLOSURES.

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**SIDEWALK IMPROVEMENT PROJECT**  
**SCIO CHURCH ROAD**  
**TEMPORARY TRAFFIC CONTROL**

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

SCALE PLAN: 1" = 40'

DRAWING NO. C018130678

SHEET NO. 18 OF 19

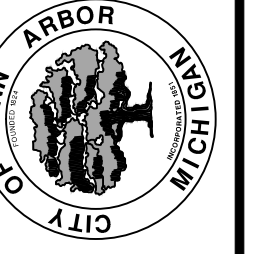
REV.	DATE	DESCRIPTION	DRAWN	CHECKED

1047051	_Audio Visual Tape Coverage	LS	1	8100403	Sign, Type III, Rem	Ea	11
1500001	Mobilization, Max. ____	LS	1	8110041	Pavt Mrkg, Ovly Cold Plastic, 12 inch, Crosswalk	Ft	68
2020002	Tree, Rem, 19 inch to 36 inch	Ea	1	8110045	Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar	Ft	62
2020004	Tree, Rem, 6 inch to 18 inch	Ea	14	8110068	Pavt Mrkg, Ovly Cold Plastic, Only	Ea	2
2020008	Stump, Rem, 6 inch to 18 inch	Ea	1	8110071	Pavt Mrkg, Ovly Cold Plastic, Rt Turn Arrow Sym	Ea	2
2030011	Dr Structure, Rem	Ea	1	8110078	Pavt Mrkg, Ovly Cold Plastic, Thru Arrow Sym	Ea	2
2040020	Curb and Gutter, Rem	Ft	66	8110091	Pavt Mrkg, Polyurea, 4 inch, White	Ft	129
2040025	Fence, Rem	Ft	92	8110092	Pavt Mrkg, Polyurea, 4 inch, Yellow	Ft	4690
2040035	Guardrail, Rem	Ft	711	8110093	Pavt Mrkg, Polyurea, 6 inch, Crosswalk	Ft	154
2040050	Pavt, Rem	Syd	10.4	8120020	Barricade, Type III, High Intensity, Furn	Ea	19
2040055	Sidewalk, Rem	Syd	22.5	8120021	Barricade, Type III, High Intensity, Oper	Ea	19
2057002	_Sidewalk Grading	Sta	24.7	8120030	Channelizing Device, 42 inch, Furn	Ea	138
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	8	8120031	Channelizing Device, 42 inch, Oper	Ea	138
2080036	Erosion Control, Silt Fence	Ft	2432	8120140	Lighted Arrow, Type C, Furn	Ea	4
3027011	_Aggregate Base, 6 inch, Modified	Syd	139.3	8120141	Lighted Arrow, Type C, Oper	Ea	4
3060012	Aggregate Surface Cse, 8 inch	Syd	66	8120170	Minor Traf Devices	LS	1
3077031	_Shoulder, CI II, Modified	Ton	251.2	8120210	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	4819
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	25	8120211	Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	Ft	80
4021230	Sewer Bulkhead, 12 inch	Ea	1	8120240	Pavt Mrkg, Type R, 4 inch, White, Temp	Ft	1991
4021275	Video Taping Sewer and Culv Pipe	Ft	25	8120241	Pavt Mrkg, Type R, 4 inch, Yellow, Temp	Ft	4680
4030010	Dr Structure Cover, Type B	Ea	1	8120310	Sign Cover	Ea	5
4030040	Dr Structure Cover, Type G	Ea	1	8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	826
4030200	Dr Structure, 24 inch dia	Ea	1	8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	826
4030210	Dr Structure, 48 inch dia	Ea	1	8120370	Traffic Regulator Control	LS	1
4037050	_Dr Structure, Cover, Adj, Modified	Ea	1	8130010	Riprap, Plain	Syd	7.3
5010005	HMA Surface, Rem	Syd	76.8	8150001	Site Preparation, Max. ____	LS	1
5010025	Hand Patching	Ton	35.8	8150002	Watering and Cultivating, First Season, Min. ____	LS	1
7067010	_Modular Block Retaining Wa	Sft	780	8152177	Liriodendron tulipifera, 2 inch	Ea	6
8010005	Driveway, Nonreinf Conc, 6 inch	Syd	24.1	8153044	Quercus bicolor, 2 inch	Ea	2
8020056	Shoulder Gutter, Conc, Det 2	Ea	1	8167011	_Turf Establishment, Performance	Syd	1378
8020075	Spillway, Conc	Ft	11	8217050	_Monument Preservation - Special	Ea	1
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	26	8217050	_Monument Box Adjust - Special	Ea	1
8027001	_Curb and Gutter, Conc, Modi	Ft	66	8237001	_Sprinkler Line	Ft	100
8027001	_Mountable Curb and Gutter, Conc, Modified	Ft	116	8237050	_Sprinkler Head, Replace	Ea	10
8030044	Sidewalk, Conc, 4 inch	Sft	11997	8237050	_Sprinkler Head, Relocate	Ea	10
8030046	Sidewalk, Conc, 6 inch	Sft	46				
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	276				
8037010	_Detectable Warning Surface, Modified	Sft	59				
8070000	Guardrail, Type B	Ft	1062.5				
8070042	Guardrail Approach Terminal, Type 2B	Ea	2				
8070080	Guardrail Reflector	Ea	44				
8077001	_Timber Rub Rail	Ft	1062.5				
8080007	Fence, Protective	Ft	1190				
8087001	_Fence, Chain Link, 48 inch, Special	Ft	678				
8100130	Delineator Reflector	Ea	2				
8100350	Post, Delineator	Ea	2				



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR  
PUBLIC SERVICE  
301 EAST HURON STREET  
ANN ARBOR MI 48106-1067  
734.754.5410  
www.a2gov.org



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
SIDEWALK IMPROVEMENT PROJECT  
BARTON DRIVE AND SCIO CHURCH ROAD  
QUANTITIES

SCALE PLAN: 1" = 5'  
DRAWING No. C019130678