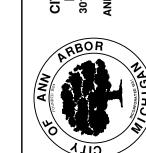


# CITY OF ANN ARBOR PROJECT MANAGEMENT

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

SCIO CHURCH ROAD TRAFFIC DATA		
2012 ANNUAL DAILY TRAFFIC (ADT)	10,085	
2032 ADT	12,304	
2012 COMMERCIAL	2%	
2030 COMMERCIAL	2%	
POSTED SPEED	35 MPH	
DESIGN SPEED	40 MPH	



ANN

OF

**IMPROVEMENT** 

SIDEWALK

SHEET No

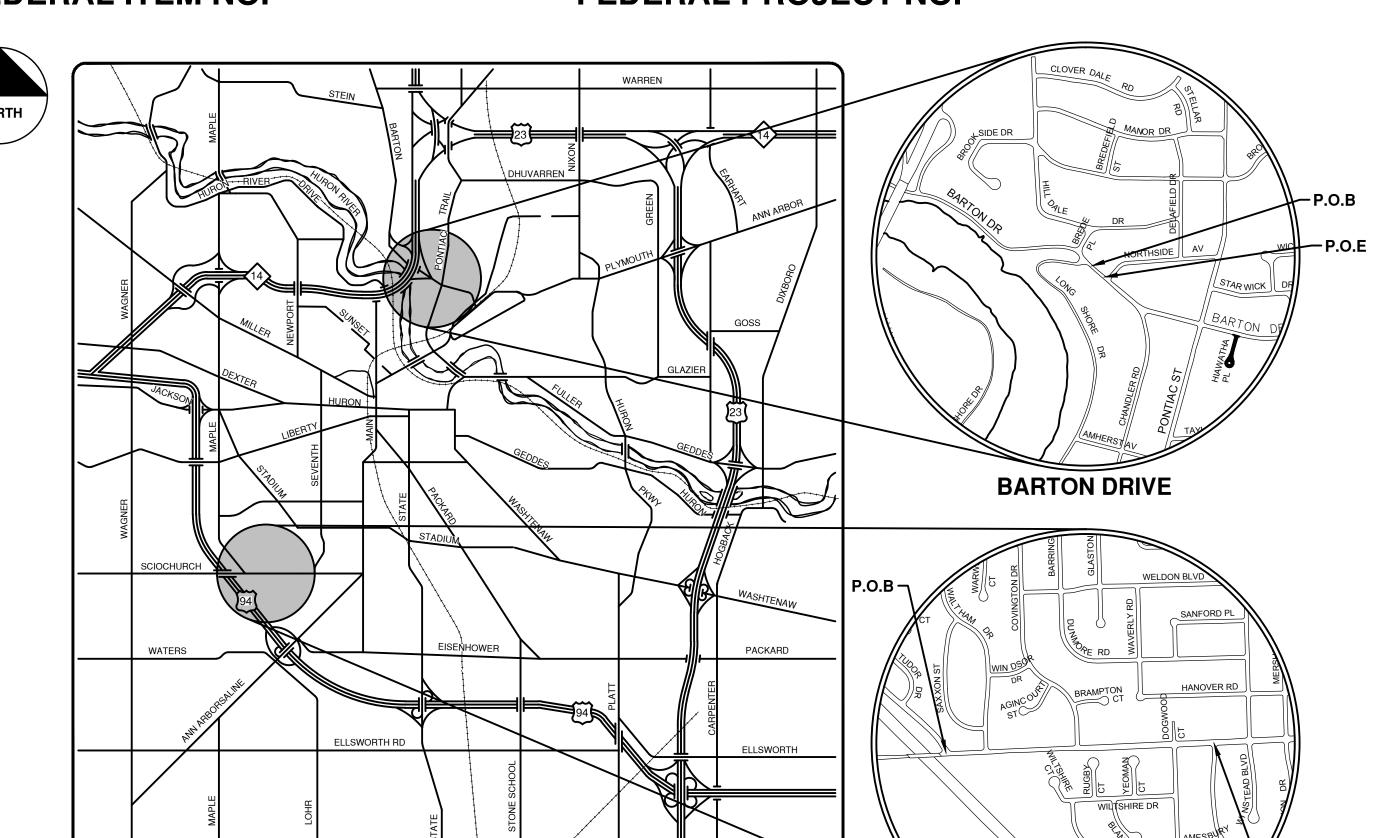
IN COOPERATION WITH THE

MICHIGAN DEPARTMENT OF TRANSPORTATION **AND THE** FEDERAL HIGHWAY ADMINISTRATION

# SIDEWALK IMPROVEMENT PROJECT

**MDOT JOB NO. 124325A** FEDERAL ITEM NO.

MDOT CONTROL SECTION NO. STU81475 FEDERAL PROJECT NO.



**VICINITY MAP** 

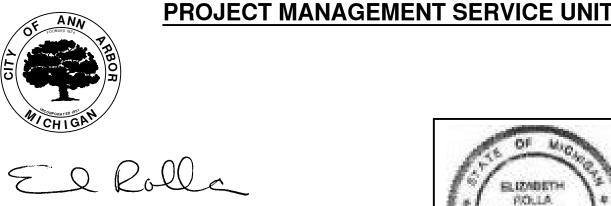
#### **NOTES:**

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

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

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH 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".



0.54 MILES OF CONCRETE SIDEWALK CONSTRUCTION WITH STORM SEWER UPGRADES, CURB AND GUTTER,

QUANTITIES

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

RETAINING WALL, PERMANENT SIGNING AND PERMANENT MARKINGS.

5/16/2014

**Sheet List Table** 

SCIO CHURCH ROAD - GRADING AND STAKING PLAN SCIO CHURCH ROAD - GRADING AND STAKING PLAN SCIO CHURCH ROAD - GRADING AND STAKING PLAN

SCIO CHURCH ROAD - GRADING AND STAKING PLAN SCIO CHURCH ROAD - GRADING AND STAKING PLAN

SCIO CHURCH ROAD - TEMPORARY TRAFFIC CONTROL

BARTON DRIVE - TEMPORARY TRAFFIC CONTROL

**COVER SHEET** 

TYPICAL CROSS SECTIONS

PREPARED UNDER THE SUPERVISION OF

CHRISTOPHER E. WALL, P.E. - MI LICENSE No. 45668 PROJECT MANAGER

5/16/2014

CHRISTOPHER E MATT

EMGEN ESP

**SCIO CHURCH ROAD** 

BARTON DRIVE / SCIO CHURCH ROAD HMA SECTION

NO SCALE

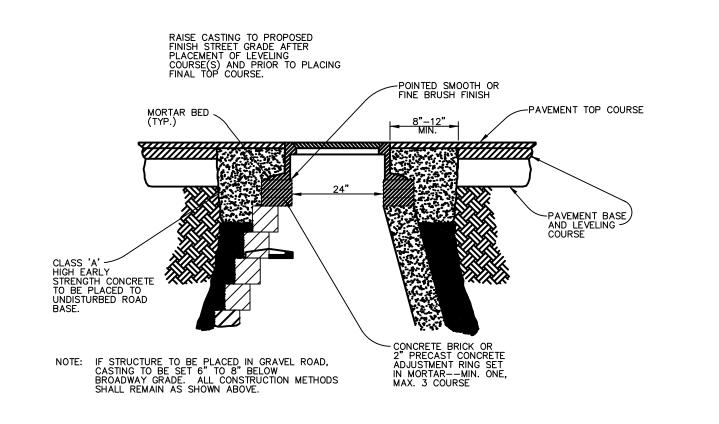
HAND PATCHING

\*FOR INFORMATION USE ONLY

.05-.15 GAL

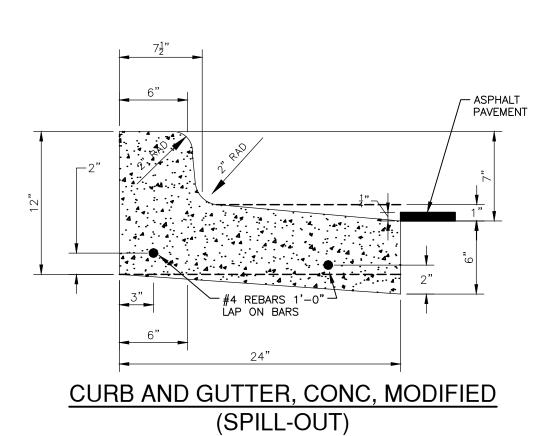
BOND COAT

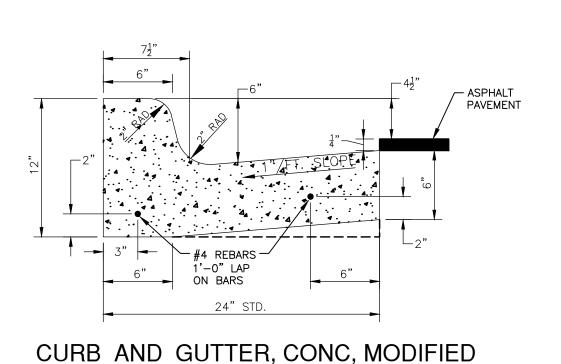
BETWEEN LAYERS

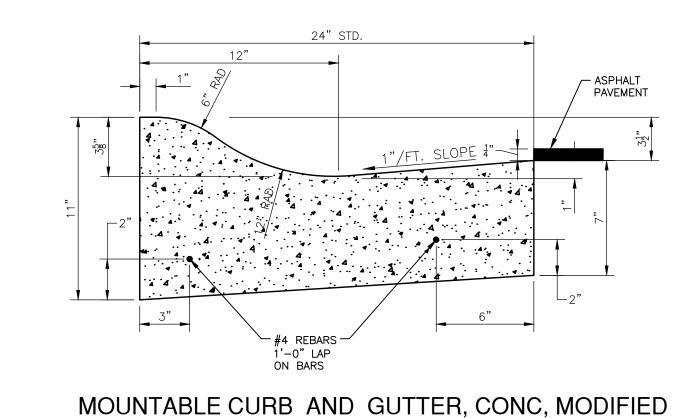


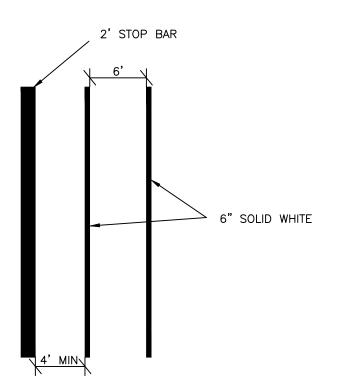
DR STRUCTURE COVER,

ADJ, MODIFIED

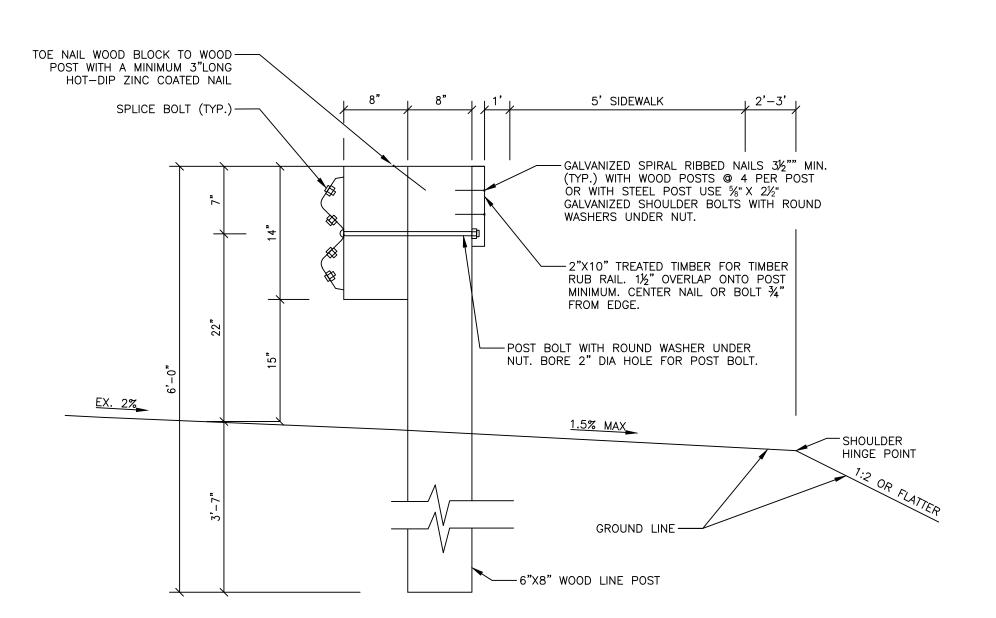




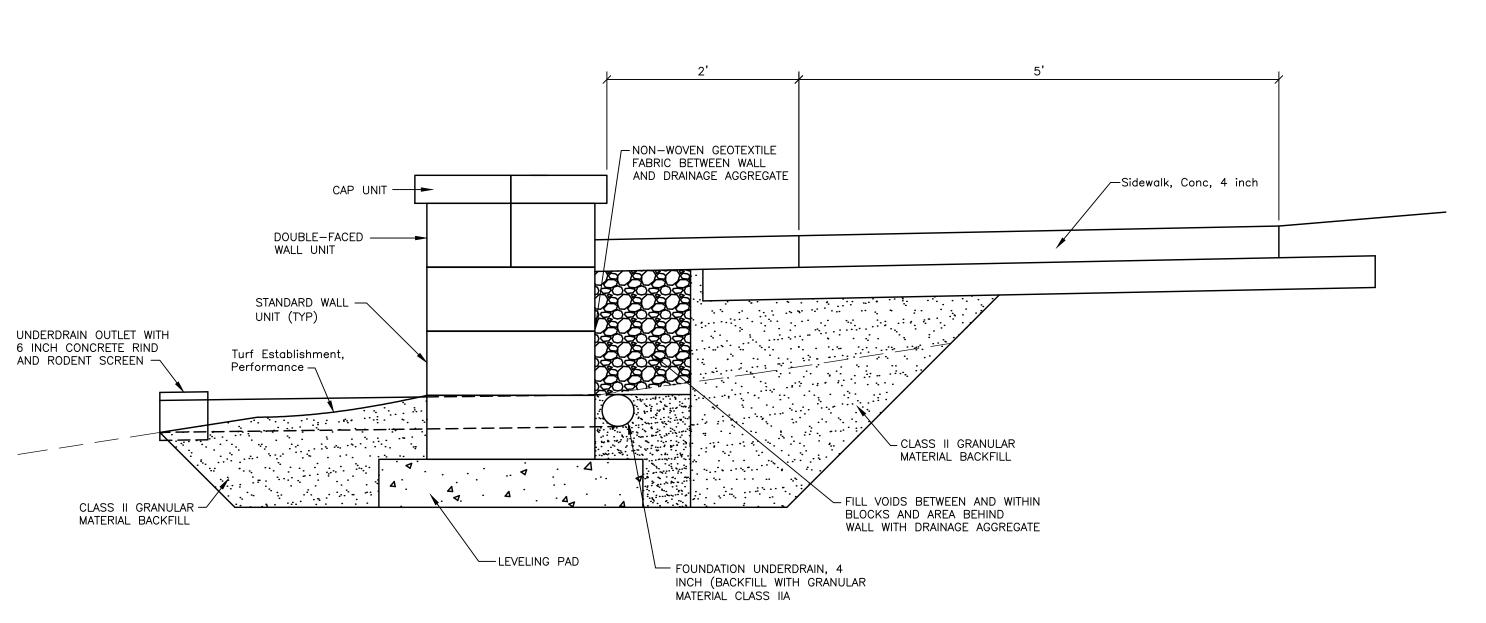




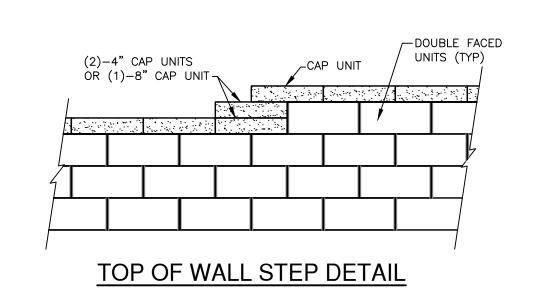
CROSSWALK DETAIL

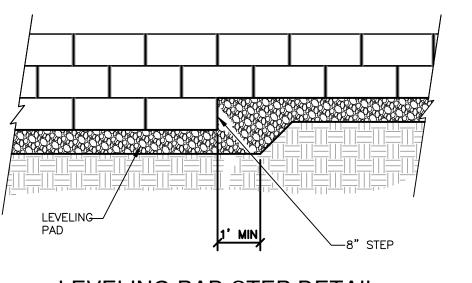






## TYPICAL SECTION THRU MODULAR BLOCK RETAINING WALL ALL WORK PAID FOR AS MODULAR BLOCK RETAINING WALL PAY ITEM.





LEVELING PAD STEP DETAIL

Z:\2013\130678\CAD\CD\C003130678.dwg Dwg Created: 2-Jan-14 - standard.ctb - Plot Date: 28

HEET No.

3 OF 19

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

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

PERMIT	ISSUING AUTHORITY
LANE CLOSURE PERMIT	CITY OF ANN ARBOR PROJECT MANAGEMENT UNIT
"NO PARKING" SIGNS PERMIT	CITY OF ANN ARBOR PROJECT MANAGEMENT UNIT
GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT	CITY OF ANN ARBOR CUSTOMER SERVICE
RIGHT-OF-WAY PERMIT	CITY OF ANN ARBOR CUSTOMER SERVICE

CONTACT INFORMATION			
PUBLIC UTILITIES	OWNER	CONTACT	
WATER SEWER		DAN WOODEN (734)794-6350	
STORM FORESTRY	CITY OF ANN ARBOR FIELD OPERATIONS SERVICE UNIT W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	KEVIN ERNST (734) 794-6350 BILL MEEKS (734) 794-6350	
SIGNS SIGNALS STREET LIGHTS		CHUCK FOJTIK (734) 794-6361	
PRIVATE UTILITIES	OWNER	CONTACT	
GAS	DTE ENERGY 17150 ALLEN ROAD MELVINDALE, MI 48122	JAY WILLIAMS (313) 380-7303	
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	CLAY COMBEE (734) 397-4112	
CABLE	COMCAST 27800 FRANLKIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999-8300	
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	(734) 996–2135	
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON TX 75082	DEAN BOYERS (972) 729-6016	

### CIVIL SYMBOL LEGEND

RICHARDSON, TX 75082

#### TOPOGRAPHY - PLAN SHRUBS \_\_\_ PAVED SURFACE EXISTING CURB & GUTTER CONIFEROUS TREE PROPOSED CURB & GUTTER DECIDUOUS TREE CONCRETE MONUMENT PROPERTY IRON EDGE OF WOODS SET PROPERTY IRON EXISTING DITCH \_\_\_\_\_ LOT LINE (AS PLATTED) LIGHT GUY ANCHOR \_\_\_\_\_ R.O.W. LINE \_\_\_\_\_ SECTION LINE SIGN SECTION CORNER \_\_\_\_\_X \_\_\_\_ EXISTING FENCE PROPOSED FENCE GRAVEL SURFACE 6" WTR WATER MAIN **EXISTING UTILITIES** \_\_\_\_\_12" STM \_ \_\_\_\_\_\_\_ STORM SEWER & MANHOLE

\_\_\_\_\_\_ \_ \_ \_ \_ OP \_\_\_\_ FIBER\_OPTICS

TELEPHONE PEDESTAL

#### **MISCELLANEOUS**

CATCH BASIN CURB TYPE



#### **CONSTRUCTION NOTES:**

- 1. DRIVEWAYS AND ENTRANCES TO BUILDINGS. REAL PROPERTY. AND THE LIKE SHALL NOT BE BLOCKED EXCEPT FOR SHORT DURATIONS AND ONLY WHEN APPROVED BY THE ENGINEER. VEHICULAR AND PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL NECESSARY DRIVEWAY CLOSURES WITH THE PROPERTY OWNER(S) AND RESIDENT(S) IN THE AREAS OF CONSTRUCTION.
- 2. THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND SERVICE LEADS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO
- 3. LOCATION AND DEPTH OF UTILITIES AS DEPICTED ON THE PLANS IS APPROXIMATE AND SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXCAVATE AHEAD AND ADJUST DEPTH OF CONFLICT UTILITIES ACCORDINGLY ANY DAMAGE TO UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY TO AVOID AND/OR REPAIR AS NECESSARY. SUPPORTING EXISTING UTILITIES SHALL BE INCLUDED IN "SIDEWALK GRADING".
- 4. THE CONTRACTOR IS TO TAKE SPECIAL CARE TO PROTECT THE EXISTING WATER MAIN AND BE RESPONSIBLE FOR MAINTAINING CONSISTENT WATER SERVICE.
- 5. DURING NON-WORKING HOURS NO TRENCH SHALL REMAIN OPEN; ANY OPEN TRENCH SHALL BE PROPERLY SECURED WITH PROTECTIVE FENCING. THIS WORK SHALL BE INCLUDED IN THE ITEM OF WORK "MINOR TRAFFIC DEVICES".
- 6. TRENCHES FOR TRANSFERRING WATER SERVICES SHALL BI EXCAVATED TO MIOSHA AND CITY OF ANN ARBOR FIELD SERVICES REQUIREMENTS.
- 7. CITY OF ANN ARBOR FIELD SERVICES WILL INSTALL THE CORPORATION AND COPPER SERVICE LEAD(S) TO TRANSFER THE CONNECTION(S). IF AN EXISTING WATER SERVICE IS FOUND TO BE FAILING OR IS NOT COPPER, THE LEAD WILL BE REPLACED TO THE CURB BOX BY FIELD SERVICES.
- 8. FOR THE INSTALLATION OF CORPORATIONS, OR ANY OTHER RELATED ACTIVITIES. THE CONTRACTOR SHALL NOT RECEIVE ADDITIONAL COMPENSATION FOR DELAYS DUE TO THE SCHEDULING OF OR COORDINATION WITH THE CITY OF ANN ARBOR FIELD SERVICES.
- 9. THE CONTRACTOR SHALL BACKFILL TRENCHES IN ACCORDANCE WITH TRENCH DETAIL. THIS WORK SHALL BE INCLUDED IN THE ITEM OF
- 10. TEMPORARY "NO PARKING" SIGNS SHALL BE INSTALLED BY THE CONTRACTOR AT LOCATIONS AS APPROVED OR DIRECTED BY THE FUGINFER ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILED SPECIFICATIONS. THE COST OF PARKING METER BAGS TO BE INCLUDED IN PAY ITEM "MINOR TRAFFIC DEVICES".
- 11. POSTAL DELIVERY AND REFUSE PICKUP SERVICE SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.
- 12. ALL FITTINGS, HYDRANTS, VALVES AND CASTINGS REMOVED DURING CONSTRUCTION ARE THE PROPERTY OF THE CITY OF ANN ARBOR. THE CONTRACTOR WITHIN 48 HOURS SHALL DELIVER TO CITY OF ANN ARBOR FIELD OPERATIONS AND MAINTENANCE FACILITY AT THE W.R. WHEELER SERVICE CENTER LOCATED AT 4251 STONE SCHOOL
- 13. WHERE STREET CURBS ARE UNDERMINED DUE TO CONSTRUCTION ACTIVITIES, THEY SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUOUS MAINTENANCE OF THE TEMPORARY ROAD SURFACE AND SOIL EROSION CONTROL MEASURES WITHIN THE CONSTRUCTION AREA UNTIL THE FULL COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL COMPLY WITH THE CONDITIONS AND REQUIREMENTS OF THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT, INCLUDING BUT NOT LIMITED TO, CERTIFIED STORM WATER OPERATOR REQUIREMENTS. INSTALL ALL CONTROL MEASURES PRIOR TO COMMENCING CONSTRUCTION.
- 15. ALL CURB, SIDEWALK, DRIVEWAY APPROACH REMOVALS SHALL BE APPROVED BY ENGINEER BEFORE THE WORK IS DONE.
- 16. SAWED SEWER PIPE CONNECTIONS SHALL BE COUPLED WITH A FERNCO FLEXIBLE COUPLING AND A STAINLESS STEEL SHEAR RING.

ANY MODIFICATIONS OR

**SOIL EROSION CONTROL NOTES:** 

1. THE CONTRACTOR SHALL IMPLEMENT AND

MAINTAIN THE SOIL EROSION CONTROL

MEASURES AS SHOWN ON THE PLANS AT

ALL TIMES DURING CONSTRUCTION ON THIS

ADDITIONS TO THE SOIL EROSION CONTROL

WITH AS REQUIRED OR DIRECTED BY THE

OF ANN ARBOR. THE CONTRACTOR IS

CONTROL PERMIT ANYTIME THE DISTURBED

REQUIRED TO OBTAIN A SOIL EROSION

2. ALL SOIL EROSION AND SEDIMENTATION

3. DAILY OR AFTER STORM EVENTS INSPECTIONS

CONTROL WORK SHALL CONFORM TO THE

PERMIT REQUIREMENTS OF THE CITY OF ANN

ARBOR, CHAPTER 63, AND THE LAWS OF

SHALL BE MADE BY THE CONTRACTOR.

PERIODIC INSPECTIONS MAY BE MADE BY

THE OWNER/PROJECT ENGINEER TO

DETERMINE THÉ EFFECTIVENESS OF EROSION

AND SEDIMENTATION CONTROL MEASURES

ANY NECESSARY CORRECTIONS SHALL BE

MADE WITHOUT DELAY, AND WITHOUT

4. EROSION AND SEDIMENTATION FROM WORK

5. ALL MUD/DIRT TRACKED ONTO ROADS FROM

THE SITE DUE TO CONSTRUCTION, SHALL BE

PROMPTLY REMOVED BY THE CONTRACTOR.

IF SO ORDERED, THE CONTRACTOR SHALL

6. RESTORATION OF ALL DISTURBED AREAS,

7. CONSTRUCTION OPERATIONS SHALL BE

SCHEDULED AND PERFORMED SO THAT

PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND

INCLUDING PLACEMENT OF TOPSOIL, SEED,

FERTILIZER AND MULCH AND/OR SOD SHALL BE DONE WITHIN 5 DAYS OF THE

EMPLOY A MECHANICAL STREET SWEEPER AT

ANY OFF-SITE AREAS OR WATERWAYS.

NO ADDITIONAL COST TO THE OWNER.

COMPLETION OF FINAL GRADE

ON THE SITE SHALL BE CONTAINED ON THE

SITE AND NOT BE ALLOWED TO COLLECT ON

ADDITIONAL COST TO THE OWNER.

AREA EXCEEDS 1 ACRE.

THE STATE OF MICHIGAN.

OWNER, PROJECT ENGINEER, OR THE CITY

MEASURES DUE TO CONSTRUCTION OF CHANGED CONDITIONS SHALL BE COMPLIED

<u>GENERAL</u>

- AREAS TO BE APPROVED BY THE ENGINEER. AT NO TIME SHALL THE CONTRACTOR BE ALLOWED TO STORE MATERIALS OR EQUIPMENT ON BARTON DRIVE OR SCIO CHURCH ROAD. SWEEP BARTION AND SCIO CHURCH REGULARLY TO AND VACUUM ENTIRE STREET AFTER PROJECT COMPLETION.
- 18. FOR MAINLINE PAVING, THE WIDTH OF THE MAT FOR EACH PASS OF THE PAVER SHALL BE NOT LESS THAN 10.5' OR GREATER THAN 15'. AS DIRECTED BY THE ENGINEER. THE ENGINEER WILL DIRECT THE LAYOUT OF THE LONGITUDINAL JOINTS DURING CONSTRUCTION.
- 19. ALL STRUCTURES SHALL RECEIVE NEW CASTINGS AS DIRECTED BY THE ENGINEER. EITHER TYPE B OR TYPE K. OR AS SPECIFIED ON THE STANDARD CASTING SCHEDULE. THE EXISTING CASTINGS ARE THE PROPERTY OF THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL DELIVER TO CITY OF ANN ARBOR FIELD OPERATIONS AND MAINTENANCE FACILITY AT THE W.R. WHEELER SERVICE CENTER LOCATED AT 4251 STONE SCHOOL ROAD.
- 20. PAYMENT FOR DRAINAGE STRUCTURE SUMPS, WHERE SPECIFIED, SHALL BE INCLUDED IN THE PAYMENT FOR THE VARIOUS DRAINAGE STRUCTURE SIZES AND OR TYPES.
- 21. IN AREAS WHERE EDGE DRAIN CANNOT BE INSTALLED IN ACCORDANCE WITH CITY OF ANN ARBOR DETAIL SD-TD-11, THE EDGE DRAIN SHALL BE INSTALLED AT THE DEPTH AS INDICATED ON THE PLANS, OR AS DIRECTED BY ENGINEER. IN NO CASE SHALL THE EDGE DRAIN BE INSTALLED AT A GRADE LESS THAN 0.50% OR AT A DEPTH OF LESS THAN 2' BELOW TO PROPOSED PAVEMENT.

#### CONTRACTOR SHALL:

TEMPORARY STABILIZATION MEASURES ARE IN

PLACE IMMEDIATELY FOLLOWING BACKFILLING

8. SPECIAL PRECAUTIONS WILL BE TAKEN IN

EROSION.

PREVENT SITUATIONS THAT PROMOTE

9. PROPER DUST CONTROL SHALL BE

REQUIRED OR AS DIRECTED BY ENGINEER.

10. THE CONTRACTOR SHALL BE RESPONSIBLE

MAINTAINED DURING CONSTRUCTION BY USE

OF WATER TRUCKS AND/OR CHLORIDE AS

FOR MAINTAINING ALL TEMPORARY SOIL

EROSION CONTROL MEASURES AND REMOVAL

OF THE PROJECT. COMPLETION OF PROJECT

WILL NOT BE AUTHORIZED UNTIL ALL SITE

WORK AND UTILITY CONSTRUCTION IS

COMPLETE AND ALL SOILS ARE STABILIZED.

11. THE CONTRACTOR SHALL NOT GRADE INTO

12. TREE PROTECTION FENCING MUST REMAIN

1. INSTALL SILT FENCE, TREE PROTECTION

2. INSTALL INLET FILTERS IMMEDIATELY

FOLLOWING INSTALLATION OF PROPOSED

3. CONTRACTOR TO CONTINUALLY MAINTAIN

EROSION AND SEDIMENTATION CONTROL

MEASURES, AS REQUIRED TO ALLOW

DRAINAGE AND SEDIMENT REMOVAL. REMOVE

4. STRIP AND CLEAR - MAINTAIN EROSION

FENCING AND INLET FILTERS ON EXISTING STORM INLETS PRIOR TO ANY CLEARING OR

SEQUENCE OF EROSION CONTROL MEASURES:

EARTH MOVING OPERATION.

STORM DRAINAGE SYSTEM.

ANY ACCUMULATED SEDIMENT.

INTACT UNTIL RESTORATION OF THE SITE IS

ADJACENT PROPERTIES. SILT FENCE SHALL

BE INSTALLED AND MAINTAINED TO PREVENT

GRADING, EROSION AND SEDIMENTATION INTO

OF SOME UPON AUTHORIZED COMPLETION

- 1. TAKE ALL PRECAUTIONS TO SUPPORT UTILITY POLES, COORDINATE WITH APPROPRIATE UTILITY COMPANIES AND MINIMIZE SCHEDULE
- 2. COMPLETE ALL WORK IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES, RULES AND REGULATIONS, OBTAIN ALL NECESSARY LOCAL, STATE AND FEDERAL PERMITS AND PAY PERMIT FEES FOR THE WORK OR CONFIRM REQUIRED PERMITS HAVE BEEN OBTAINED BY OTHERS PRIOR TO COMMENCING CONSTRUCTION.
- 3. BE RESPONSIBLE AT ALL TIMES FOR SITE SAFETY IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY HAVING JURISDICTION.
- CALL MISS DIG @ 1-800-482-7171 AT LEAST 3 WORKING DAYS PRIOR TO ANY EXCAVATION TO CONFIRM THE LOCATIONS OF EXISTING BURIED UTILITIES. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE PART OF THE "MISS DIG" ALERT SYSTEM. COORDINATE THE RELOCATION OF EXISTING UTILITIES WITH THE UTILITY OWNER. BE RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND REPAIRING DAMAGE TO EXISTING UTILITIES RESULTING FROM THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS OF REPAIRING OR REPLACING ANY DAMAGED UTILITIES AT NO EXPENSE TO THE
- PROVIDE TRAFFIC CONTROL BARRICADES, SIGNS, LIGHTS, ETC. IN ACCORDANCE WITH THE LATEST EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PART 6 AS NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC. MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION.
- 6. MAINTAIN A CLEAN WORK AREA. THOROUGHLY CLEAN AND/OR SWEEP STREETS AND ROADWAYS AS NEEDED AND AS REQUIRED BY THE ENGINEER.
- MAINTAIN ACCESS TO PROPERTIES AND FOR POSTAL SERVICE DURING COORDINATE WITH THE APPROPRIATE JURISDICTIONAL AUTHORITIES. CONDUCT OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. ANY CLOSURE REQUIRES PERMISSION FROM ENGINEER AND COORDINATION WITH PROPERTY OWNERS AND RESIDENTS.
- 8. RESTORE ALL DISTURBED AREAS NOT COVERED BY OTHER SURFACE TREATMENT WITH 4" TOPSOIL, SEED, FERTILIZER AND MULCH
- 9. PROTECT EXISTING SITE IMPROVEMENTS AND LANDSCAPING FROM RESTORE/REPLACE DAMAGED IMPROVEMENTS AND LANDSCAPING TO ORIGINAL CONDITION ACCEPTABLE TO THE ENGINEER.
- 10. PROTECT TREES AND SHRUBS FROM DAMAGE DURING CONSTRUCTION

STOCK PILES.

5. ROUGH GRADE

MEASURES.

TEMPORARY SEEDING:

TEMPORARILY

SPECIFICATIONS.

THE USE OF CONSTRUCTION EQUIPMENT TO 6. INSTALL STORMWATER MANAGEMENT SYSTEM.

CONTROL MEASURES AROUND TEMPORARY

7. CONNECT STORMWATER MANAGEMENT SYSTEM.

8. ENSURE ALL SOIL IS STABILIZED. REMOVE

1. SEED IN ACCORDANCE WITH PROJECT

2. ANY DISTURBED AREA NOT PAVED, SEEDED,

1. DURING CONSTRUCTION, ALL ROADS SHALL

AND/OR AS SHOWN ON THE PLANS.

BROOM SWEEPER IS NOT PERMITTED.

CATCH BASIN/MANHOLE PROTECTION:

APPROVED INLET FILTERS.

BE PROTECTED FROM UNVEGETATED AREAS

WASHING ONTO ROAD SURFACE BY

PLACEMENT OF SILT FENCE BEHIND CURB

OR A 10 FOOT WIDE STRAW MULCH BANK

2. DURING CONSTRUCTION OF ANY PORTION OF

THE PROJECT, ADJOINING ROADS SHALL BE

MAINTAINED FREE OF DIRT, SILT AND

CONSTRUCTION DEBRIS. CONTRACTOR

REQUIRED TO USE VACUUM SWEEPER

EQUIPMENT FOR CLEANING CONSTRUCTION

SITE AND ADJOINING ROADS. THE USE OF

1. PROTECT STORM SEWER CATCH BASINS WITH

BEHIND CURB OR OTHER APPROVED METHOD

MULCHED, SODDED OR BUILT UPON BY

NOVEMBER 15TH OR JUNE 30TH IS TO BE

STABILIZED

DRAWINGS AND SPECIFICATIONS.

ALL TEMPORARY SOIL EROSION CONTROL

#### 11. REFER DISCREPANCIES TO THE ENGINEER FOR CLARIFICATION.

- 12. ALL REMOVED MATERIALS ARE THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS OR AS DIRECTED BY THE ENGINEER. CLEANUP AND DISPOSE OF ALL EXCESS MATERIALS OFF SITE AT A LOCATION DESIGNATED FOR THIS USE AND IN ACCORDANCE WITH LOCAL REGULATIONS OR AT AN ON SITE LOCATION DESIGNATED BY THE OWNER.
- 13. USE (2) TWO BENCHMARKS FOR VERIFICATION OF ALL CONSTRÙCTION ELEVATIONS. SET ADDITIONAL BENCH MARKS TO COMPLY WITH THIS REQUIREMENT.
- 14. RESTORE ALL STREET SURFACES, DRIVEWAYS, CULVERTS, ROADSIDE DRAINAGE DITCHES, AND OTHER PUBLIC OR PRIVATE STRUCTURES THAT ARE DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS AND TO THE SATISFACTION OF THOSE HAVING JURISDICTION, UNLESS NOTED OTHERWISE IN THE PLANS.

#### MISCELLANEOUS QUANTITIES

THE FOLLOWING ITEMS OF WORK SHALL BE DONE AS THEY APPLY THROUGHOUT THE PROJECT. THESE ITEMS ARE NOT DETAILED OR INCLUDED ON THE PLAN AND PROFILE SHEETS.

N THE PLA	N AND PRO	OFILE SHEETS.		
JN				
	ITEMS FOR PROJECT			
1 1 1 1 25	LS LS Ea Ea Ft	Audio Visual Tape Coverage Mobilization, Max Monument Preservation — Special Monument Box Adjust — Special Video Taping Sewer and Culv Pipe		
		ITEMS FOR CONSTRUCTION ZONE TRAFFIC		
138 138 19 19 1 826 826 4819 90 1991 4680 5 1	Ea Ea Ea Ea Sft Ft Ft Ea Ea	Channelizing Device, 42 inch, Furn Channelizing Device, 42 inch, Oper Barricade, Type III, High Intensity, Furn Barricade, Type III, High Intensity, Oper Minor Traffic Devices Sign, Type B, Temp, Prismatic, Furn Sign, Type B, Temp, Prismatic, Oper Pavt Mrkg, Longit, 6 inch or Less Width, Rem Pavt Mrkg, Longit, Greater than 6 inch Width, Rem Pavt Mrkg, Type R, 4 inch, White, Temp Pavt Mrkg, Type R, 4 inch, Yellow, Temp Sign Cover Traffic Regulator Control Lighted Arrow, Type C, Furn Lighted Arrow, Type C, Oper		
		ITEMS FOR SOIL EROSION		
8 2432	Ea Ft	Erosion Control, Inlet Protection, Fabric Drop Erosion Control, Silt Fence		
		MISC ITEMS FOR SIDEWALK		
24.7 1378 1 1 100 10	Sta Syd LS LS Ft Ea Ea	Sidewalk Grading Turf Establishment, Performance Site Preparation, Max Watering and Cultivating, First Season, Min Sprinkler Line Sprinkler Head, Relocate Sprinkler Head, Replace		
		MISC ITEMS FOR PAVING		
139.3 1	Syd Ea	Aggregate Base, 6 inch, Modified Shoulder Gutter, Conc, Det 2		
		MISC ITEMS FOR GUARDRAIL		
44 1062.5 2 2	Ea Ft Ea Ea	Guardrail Reflector Timber Rub Rail Delineator Reflector Post, Delineator		
		MISC ITEMS FOR PERMANENT MARKINGS		
129 4690 154 68 62	Ft Ft Ft Ft	Pavt Mrkg, Polyurea, 4 inch, White Pavt Mrkg, Polyurea, 4 inch, Yellow Pavt Mrkg, Polyurea, 6 inch, Crosswalk Pavt Mrkg, Ovly Cold Plastic, 12 inch, Crosswalk Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar		

Pavt Mrkg, Ovly Cold Plastic, Only

Pavt Mrkg, Ovly Cold Plastic, Rt Turn Arrow Sym

Pavt Mrkg, Ovly Cold Plastic, Thru Arrow Sym

### STANDARD PLANS

CONSTRUCTION OF THE FOLLOWING ITEMS, WHERE CALLED FOR ON THE PLANS, WILL BE

REQUIRED ON THIS PROJECT	ITEM OF WORK	STANDARI PLAN NUMBERS
Х	DRAINAGE STRUCTURES	R-1-E
Х	COVER B	R-7-E
Χ	COVER G	R-12-D
Χ	SIDEWALK RAMP AND DETECTABLE WARNING DETAILS	R-28-H
Χ	DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALKS	R-29-H
Χ	CONCRETE SHOULDER, GUTTER AND SPILLWAY	R-35-C
Χ	GUARDRAIL TYPES A, B, BD, T AND TD	R-60-H
Χ	GUARDRAIL APPROACH TERMINAL TYPES 2B & 2T (ET & SKT)	R-62-G
Χ	BUMPER AND PARKING RAILS AND MISC.	R-74-D
Χ	UTILITY TRENCHES	R-83-B
Χ	SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96-E
Χ	CHAIN LINK FENCE (USING TENSION WIRE)	R-98-B
Χ	SEEDING AND TREE PLANTING	R-100-G
Χ	GRADING AND CROSS SECTIONS	R-105-E
Χ	DELINEATOR INSTALLATIONS	R-127-E

#### PAVEMENT MARKINGS

X	LONGITUDINAL LINE TYPES AND PLACEMENT	PAVE-905-B			
X	PAVEMENT MARKINGS FOR INTERSECTIONS	PAVE-930-B			
X	INTERSECTION, STOP BAR, AND CROSSWALK MARKINGS	PAVE-945-B			
	SIGNING				
X	TRAFFIC SIGNING GERNAL NOTES (E)	SIGNUP-NOTE			
X	STANDARD SIGN INSTALLATION	SIGN-100-E			
X	STANDARD ROUTE MARKER INSTALLATIONS	SIGN-110-B			
Х	ROADSIDE SIGN LOCATIONS & SUPPORT SPACING	SIGN-120-D			
Х	SIGN SUPPORT SELECTION CHARTS	SIGN-150-C			
Х	STEEL POSTS	SIGN-200-B			
WORK ZONE DEVICES					
Х	GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS	WZD-100-A *			

TEMPORARY TRAFFIC CONTROL DEVICES

#### PIPE CONTENTS ABBREVIATIONS NATURAL GAS SANITARY SEWER STM STORM SEWER WATER FORCE MAIN

\* SPECIAL DETAIL

PIPE	MATERIAL ABBREVIATIONS	
CSP	CORRUGATED STEEL PIPE	
CSPA	CORRUGATED STEEL PIPE ARCH	
DIP	DUCTILE IRON PIPE	
NRCP	NON-REINFORCED CONCRETE PIPE	
PE	POLYETHYLENE	
PE PERF.	POLYETHYLENE PIPE PERFORATED	
PVC	POLYVINYL CHLORIDE	
RCP	REINFORCED CONCRETE PIPE	
VCP	VITRIFIED CLAY PIPE	

WZD-125-E <sup>\*</sup>

#### MDOT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

SEDIMENTATION CONTROL MEASURES			
KEY	DETAIL	CHARACTERISTICS	
3	Seeding	Inexpensive & very effective Stabilizes soil, thus minimizing erosion Permits runoff to infiltrate soil, reducing runoff volume Should include prepared topsoil bed Paid for as Turf Establishment, Performance	
26	Silt Fence	Use geotextile and posts or poles May be constructed or prepackaged Easy to construct and locate as necessary	
29	Catch Basin, Filter Bag	Manufactured filter bag inserted under casting. Collects sediment at catch basin inlet.	

T MEASURE

P MEASURE

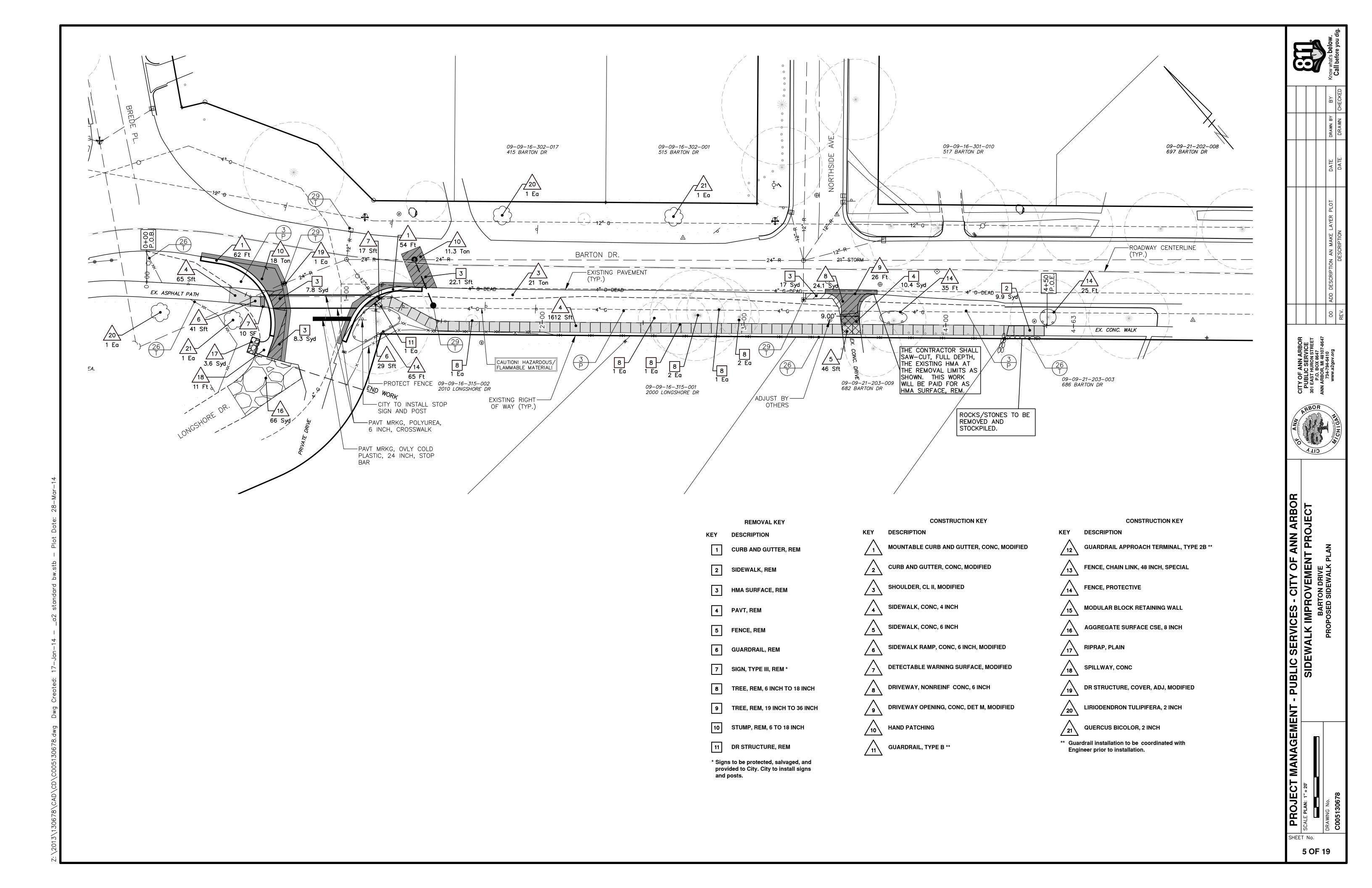
<u>GEDIMENTATION GONTROL MEAGURED</u>				
KEY	DETAIL	CHARACTERISTICS		
3	Seeding	Inexpensive & very effective Stabilizes soil, thus minimizing erosion Permits runoff to infiltrate soil, reducing runoff volume Should include prepared topsoil bed Paid for as Turf Establishment, Performance		
26	Silt Fence	Use geotextile and posts or poles May be constructed or prepackaged Easy to construct and locate as necessary		
29	Catch Basin, Filter Bag	Manufactured filter bag inserted under casting. Collects sediment at catch basin inlet.		
XX TEMPORARY YY PERMANENT				

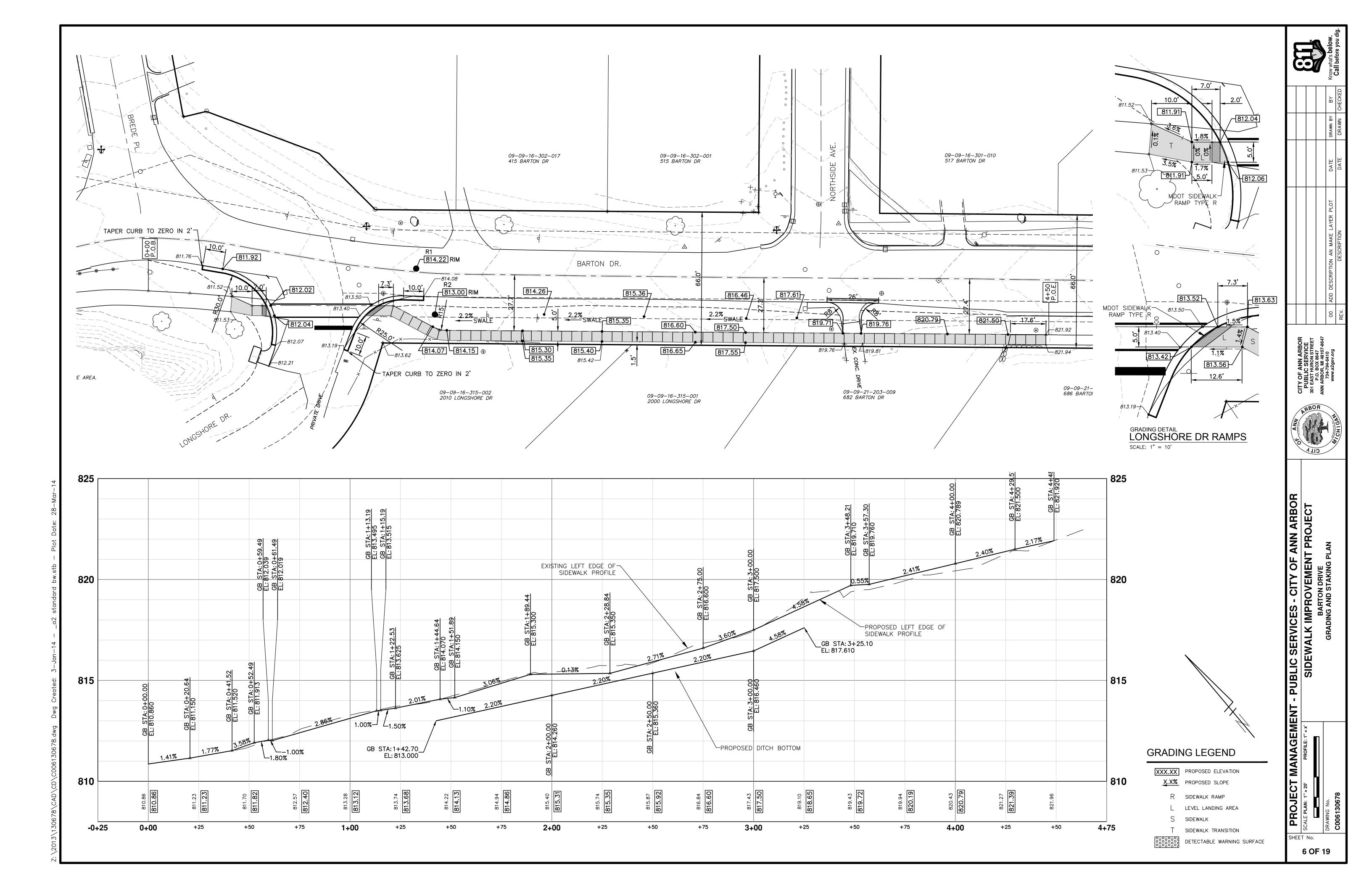
4 OF 19

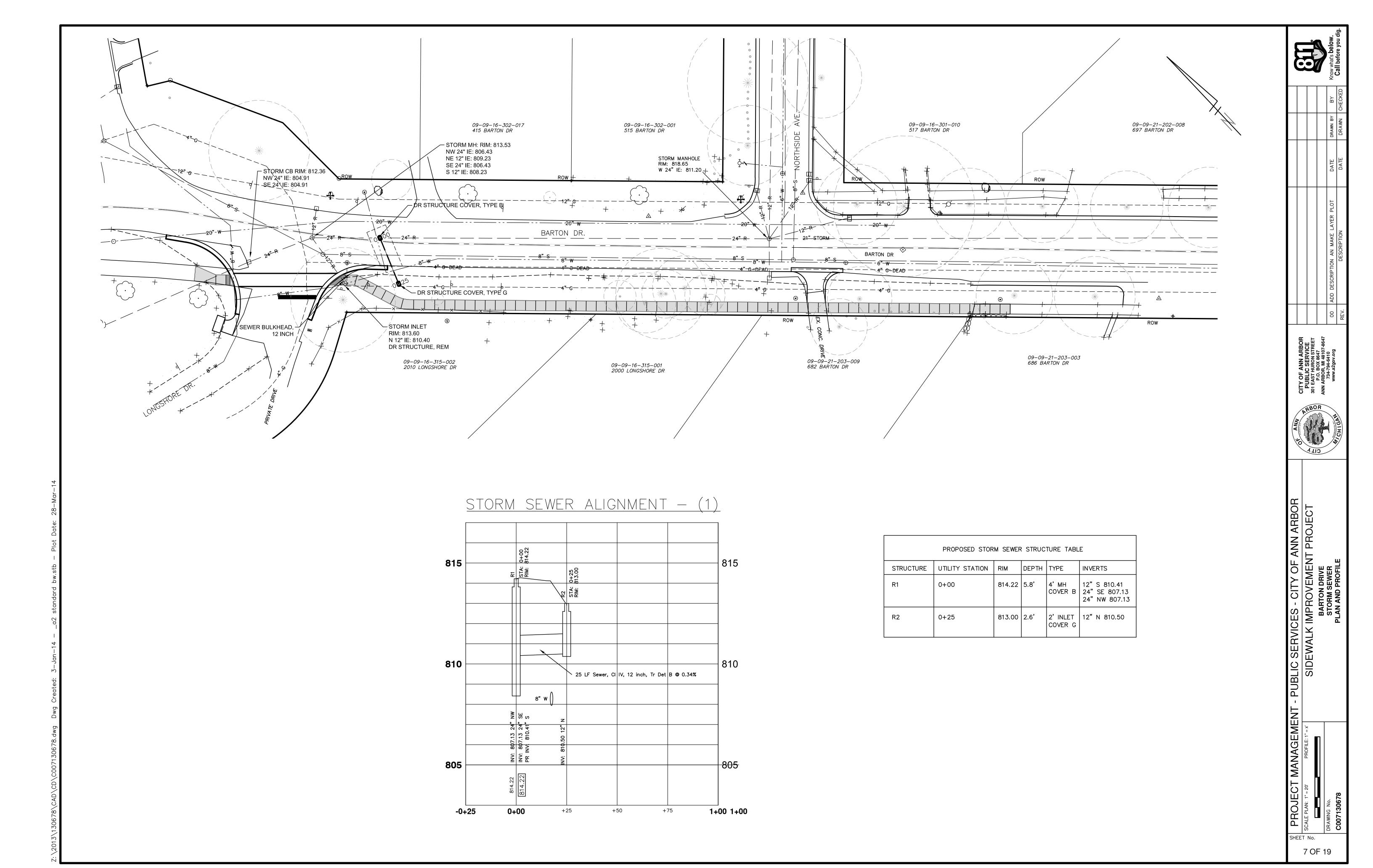
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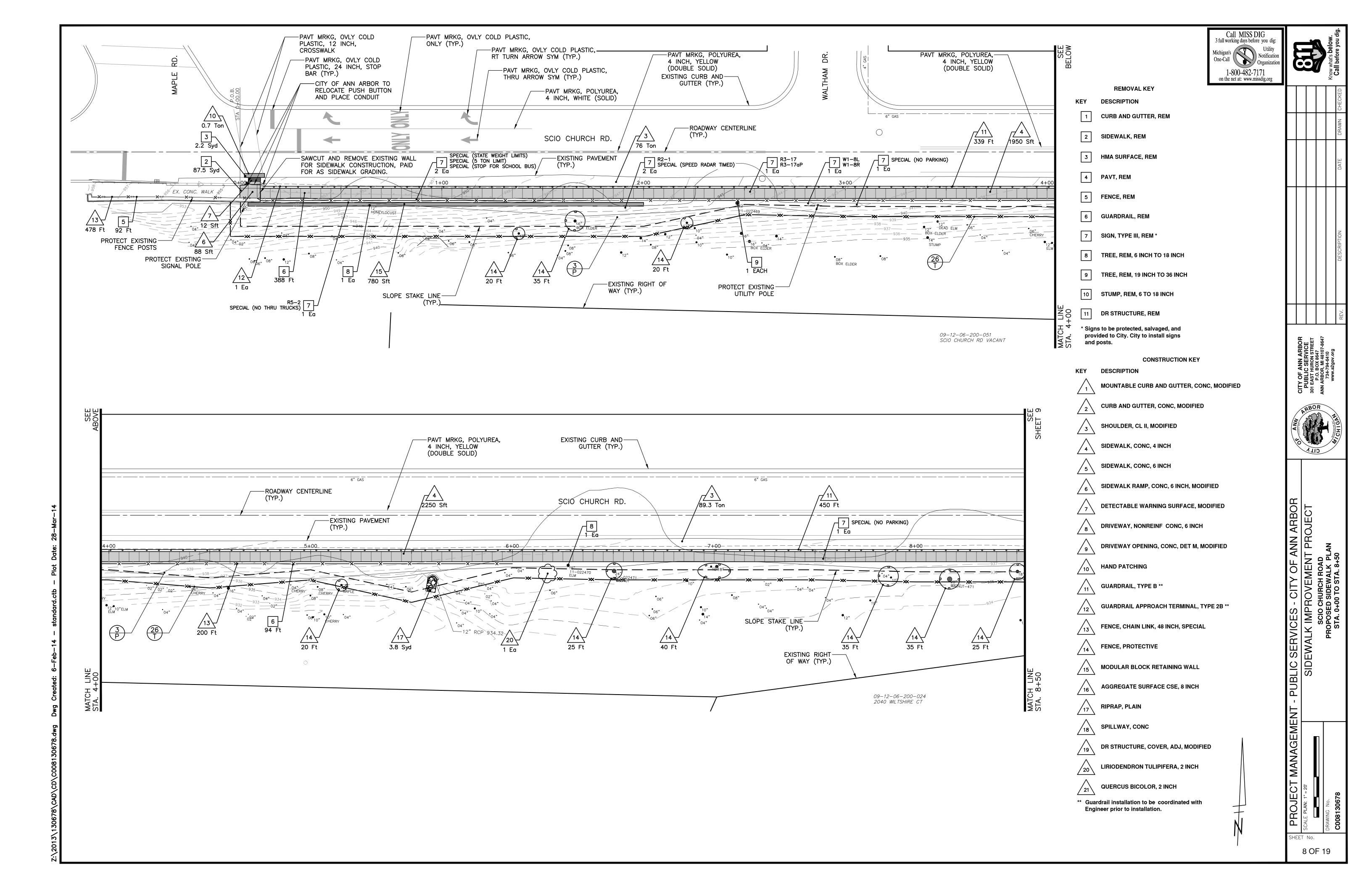
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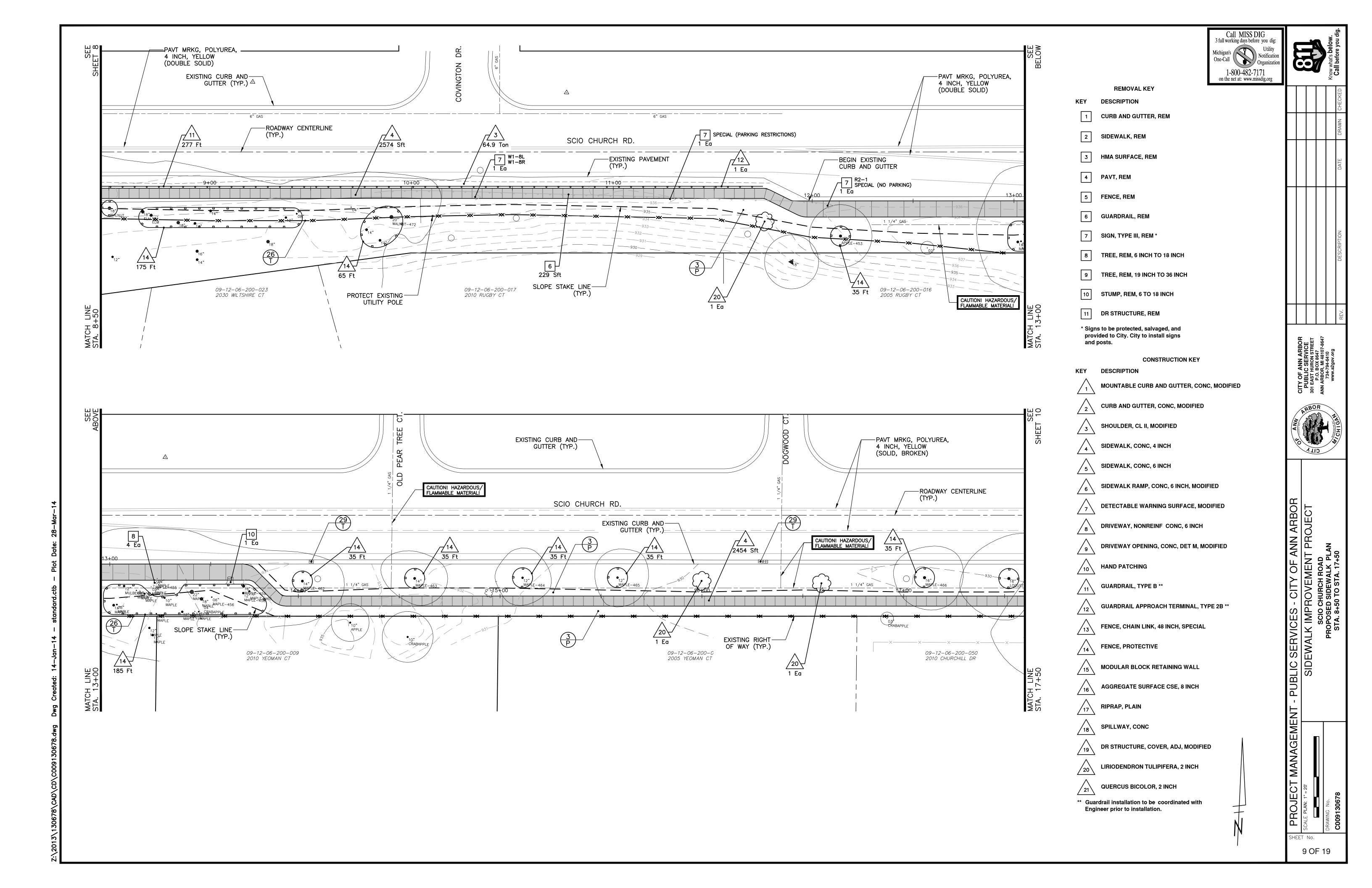
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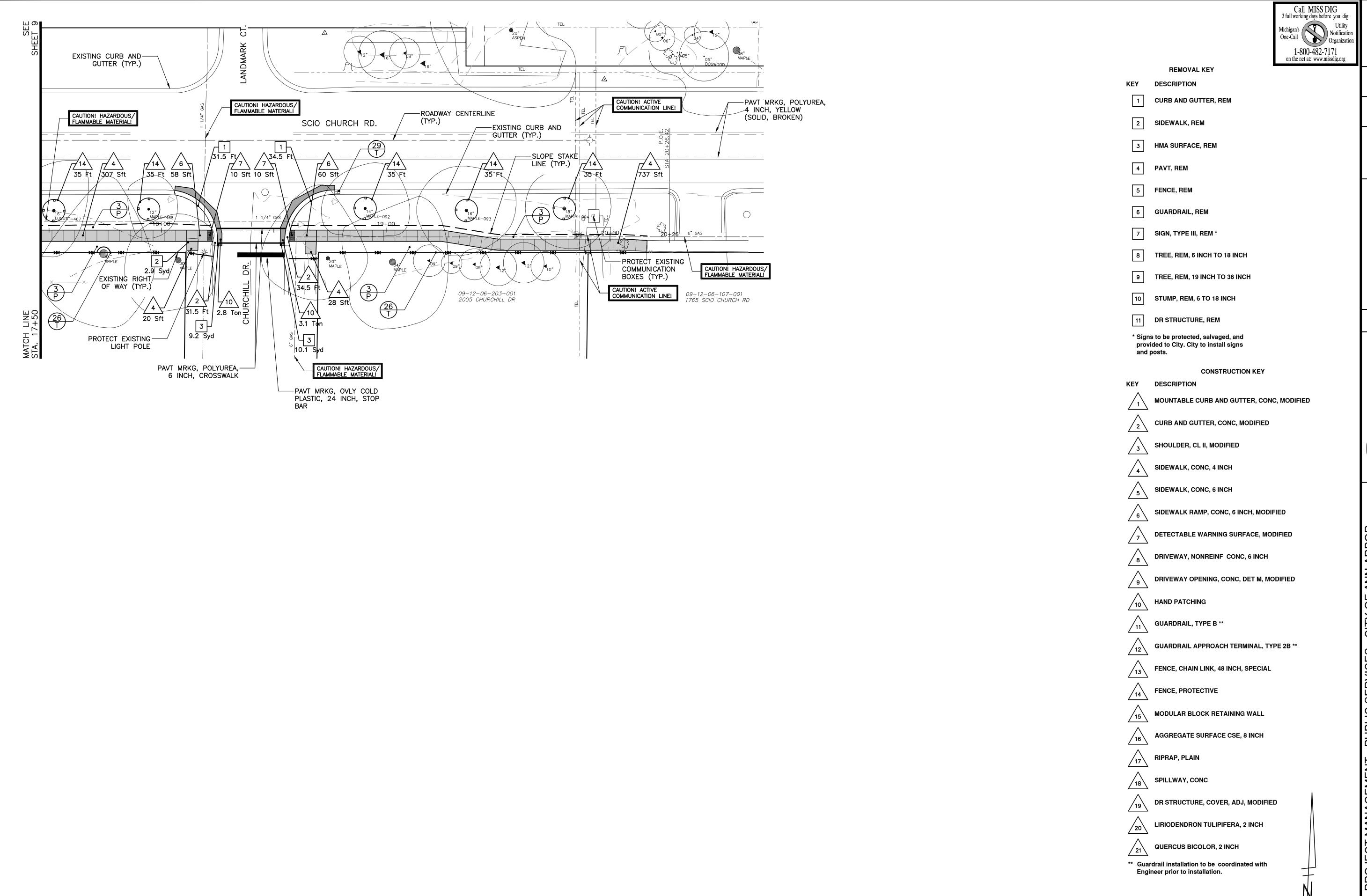










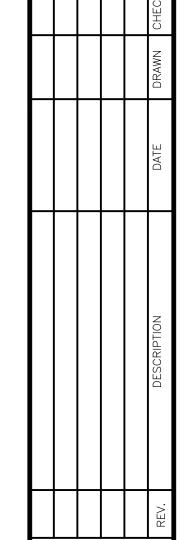




10 OF 19











OF ANN ARBOR	ROAD
MENT PROJECT	AINING WALL

WALK IMPROVEMENT PR SCIO CHURCH ROAD MODULAR BLOCK RETAINING WAL

SIDEW

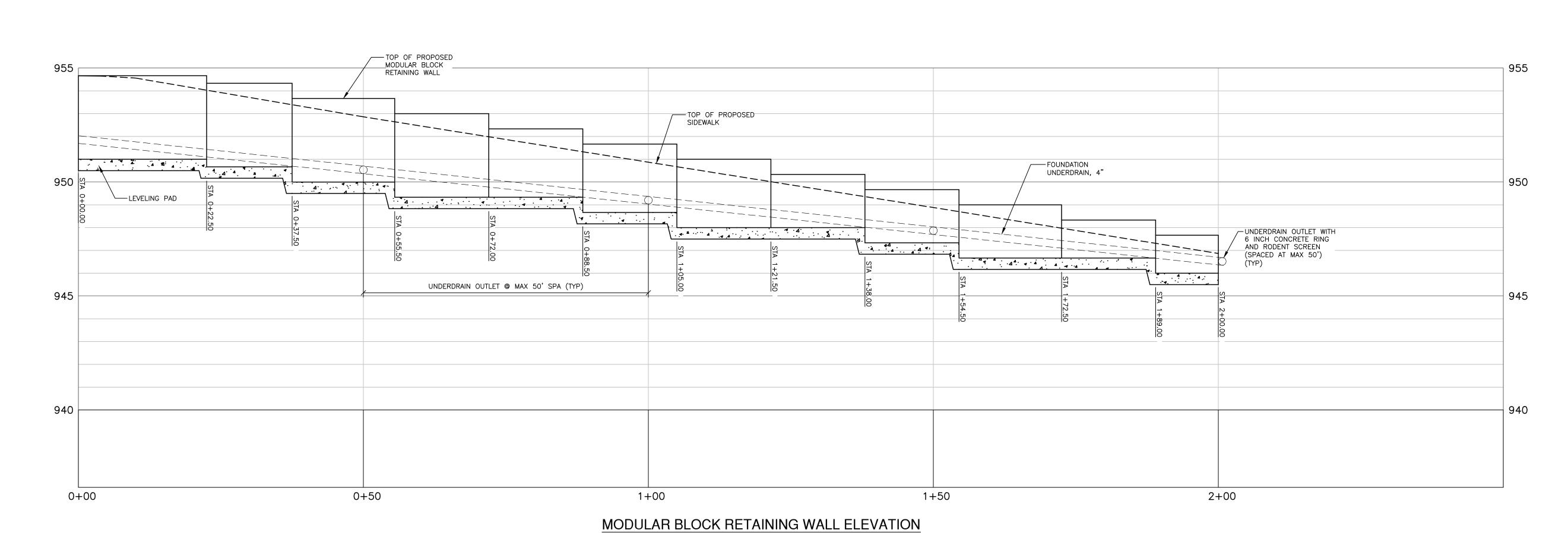
E PLAN: 1" = 10'
ING No.

SCALE PLAN:

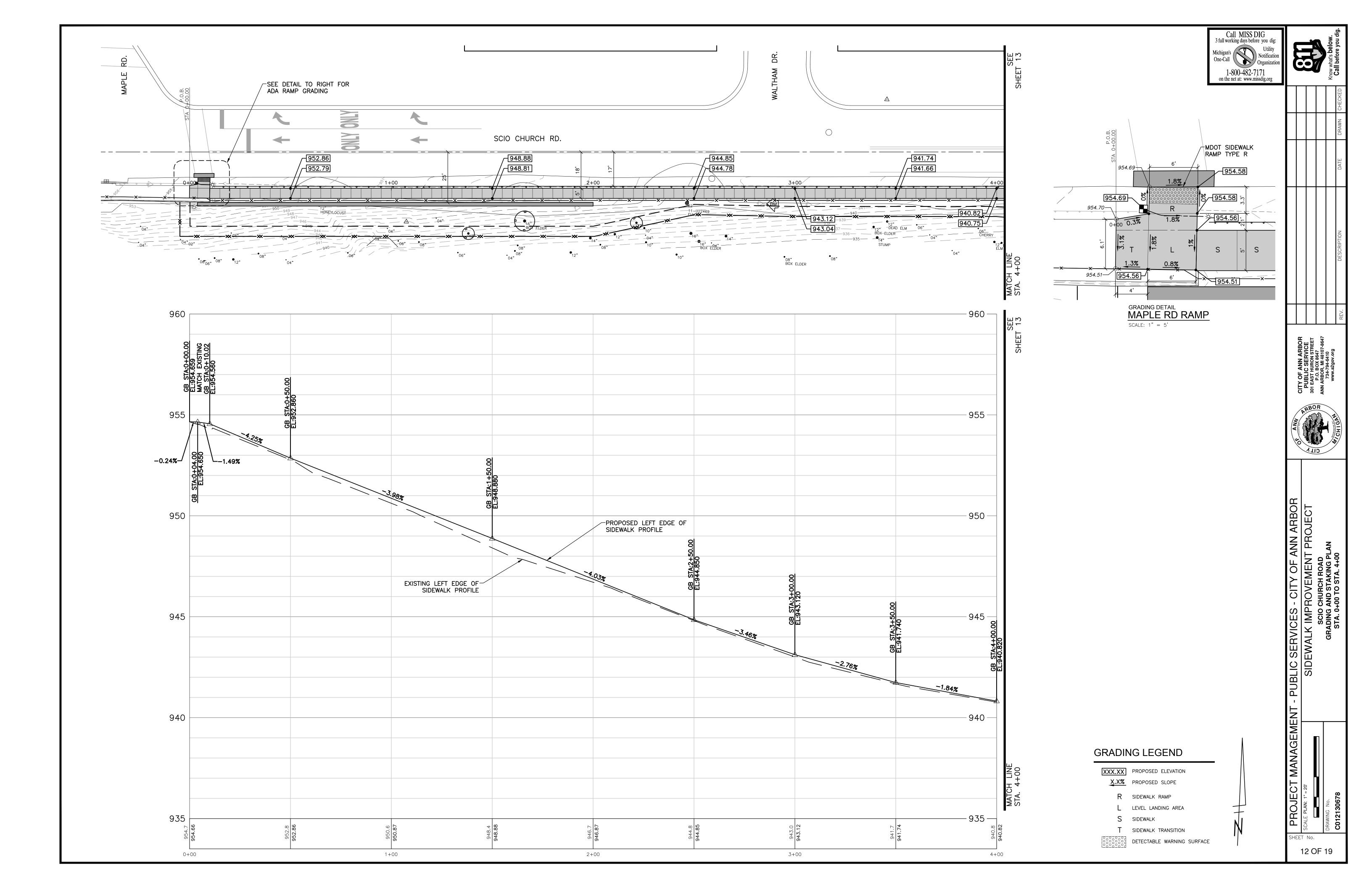
ON LEASH OF THE PLAN:

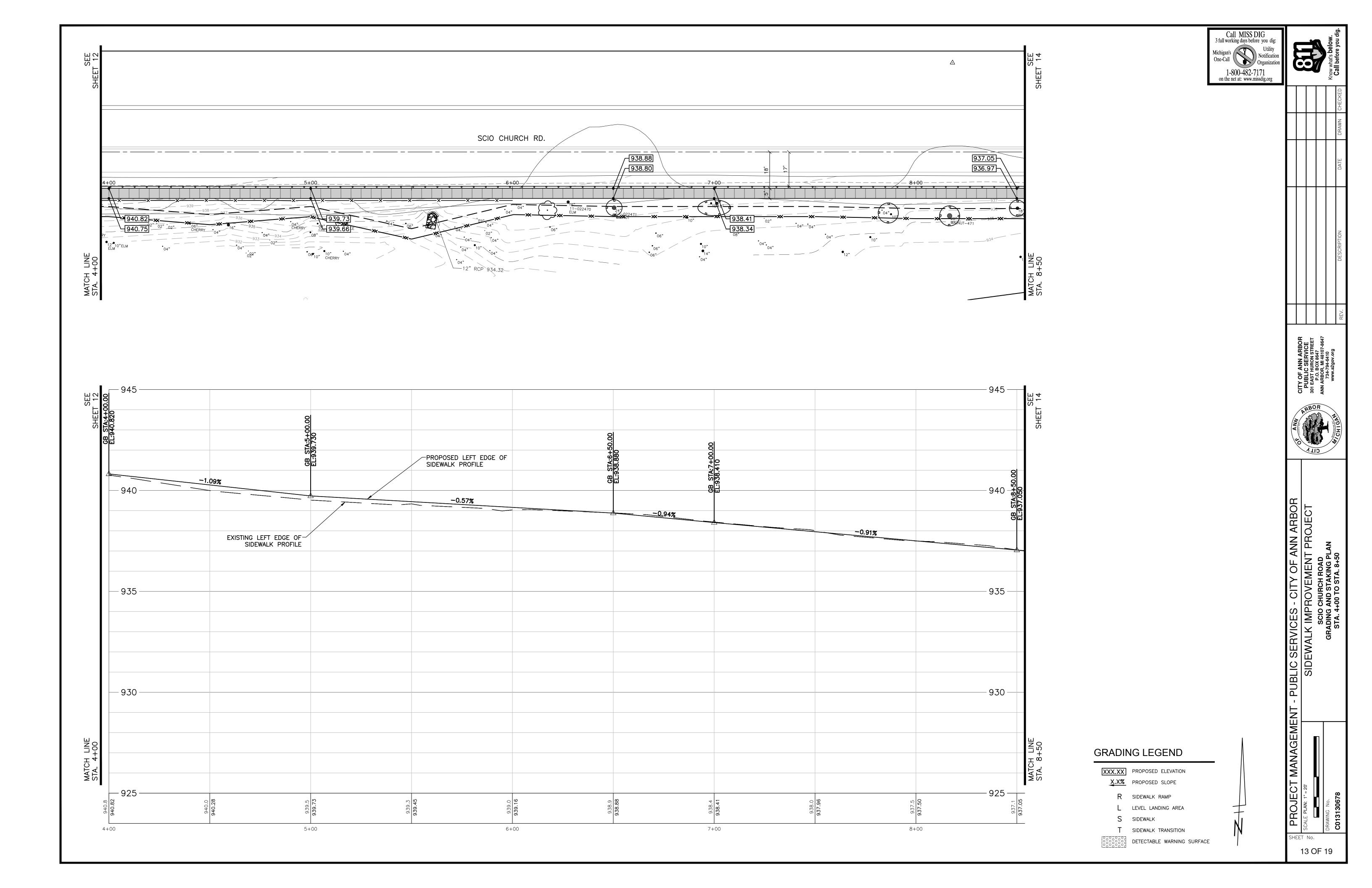
DRAWING NO

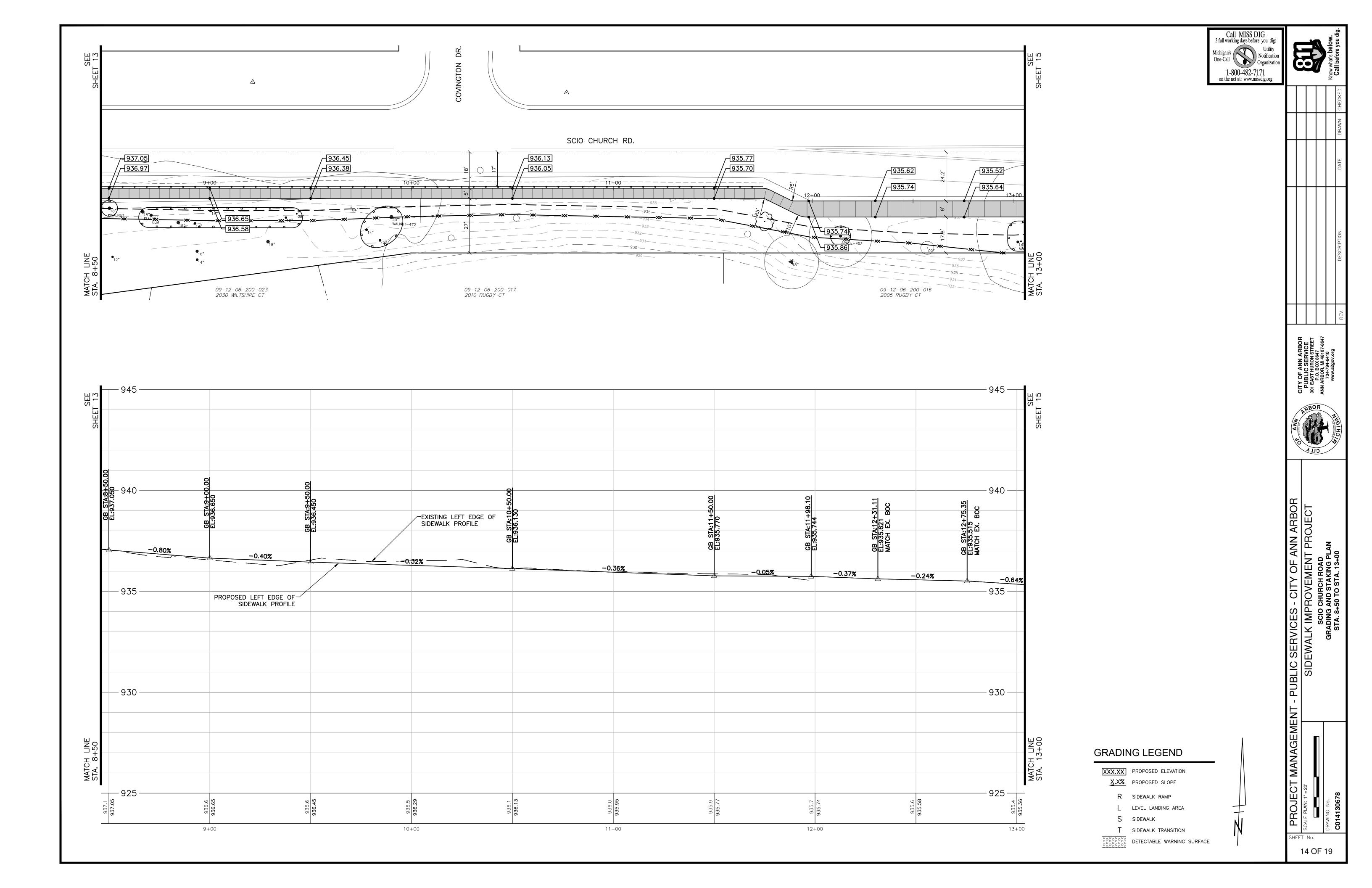
SHEET No. 11 OF 19

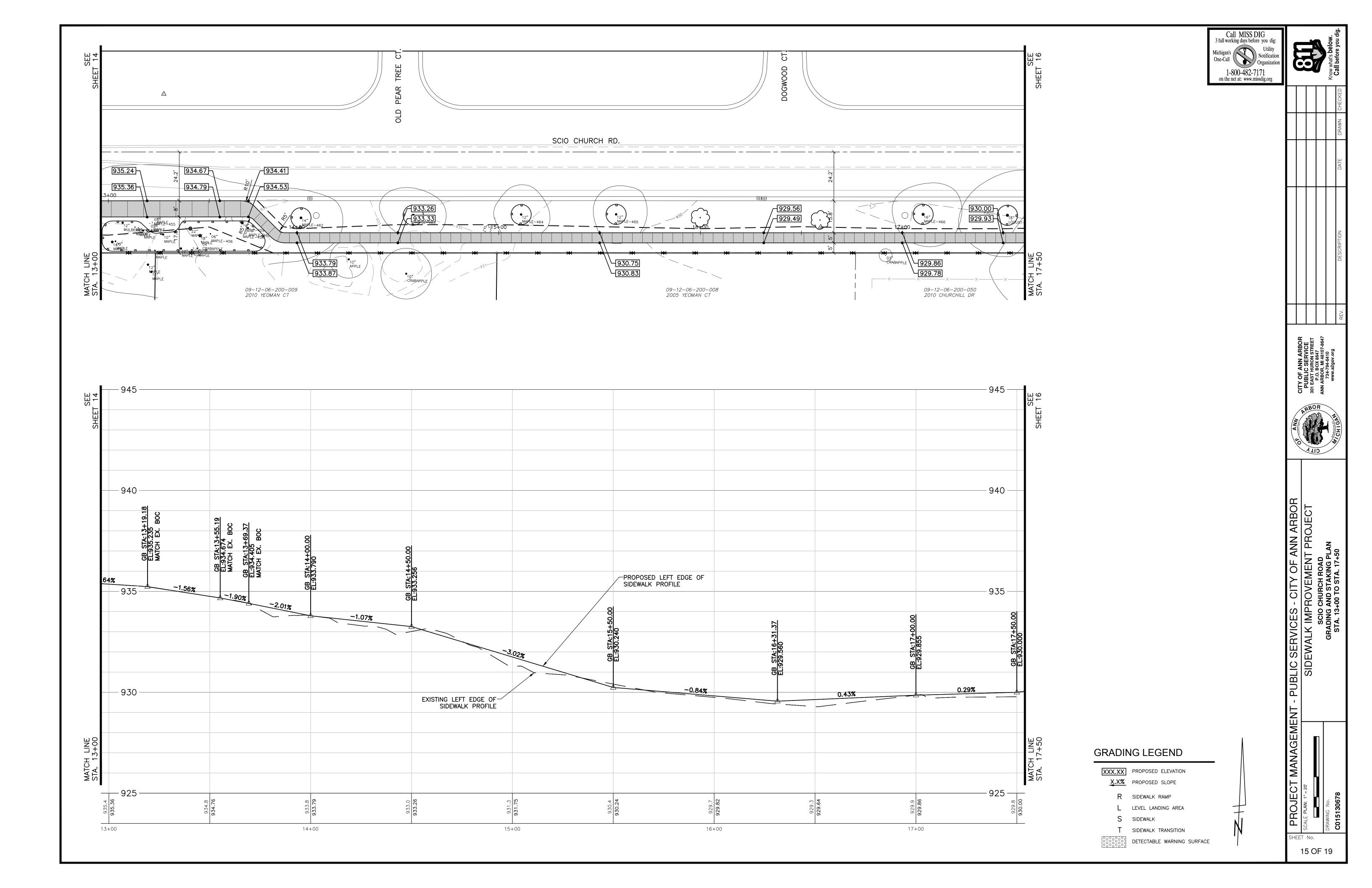


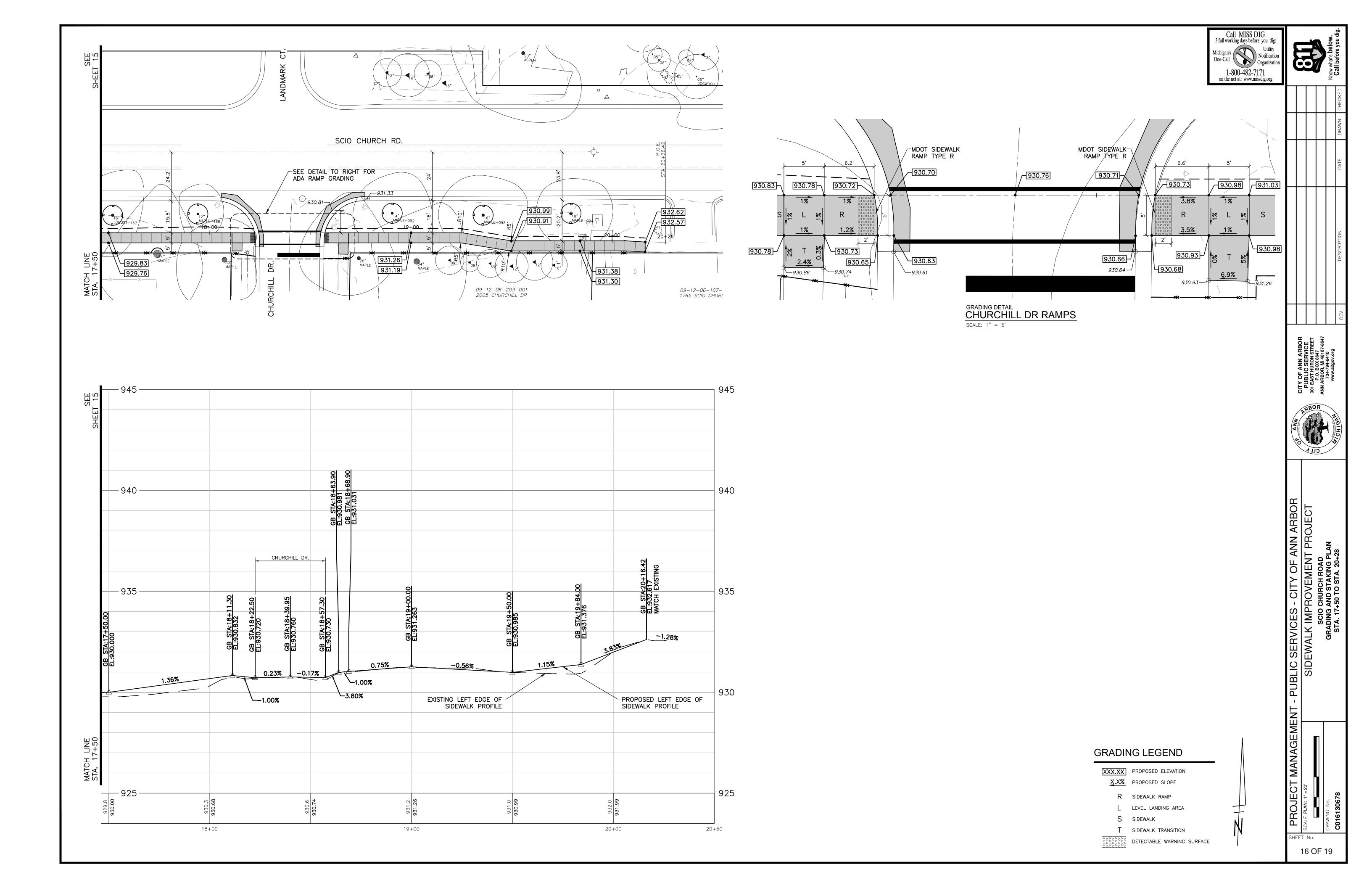
STA	A STA	TOP/WALL	TOP/LEVELING
SIA	SIA	ELEV	PAD ELEV
0+00.00	0+22.50	954.67	951.00
0+22.50	0+37.50	954.33	950.67
0+37.50	0+55.50	953.67	950.00
0+55.50	0+72.00	953.00	949.33
0+72.00	0+88.50	952.33	949.33
0+88.50	1+05.00	951.67	948.67
1+05.00	1+21.50	951.00	948.00
1+21.50	1+38.00	950.33	948.00
1+38.00	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

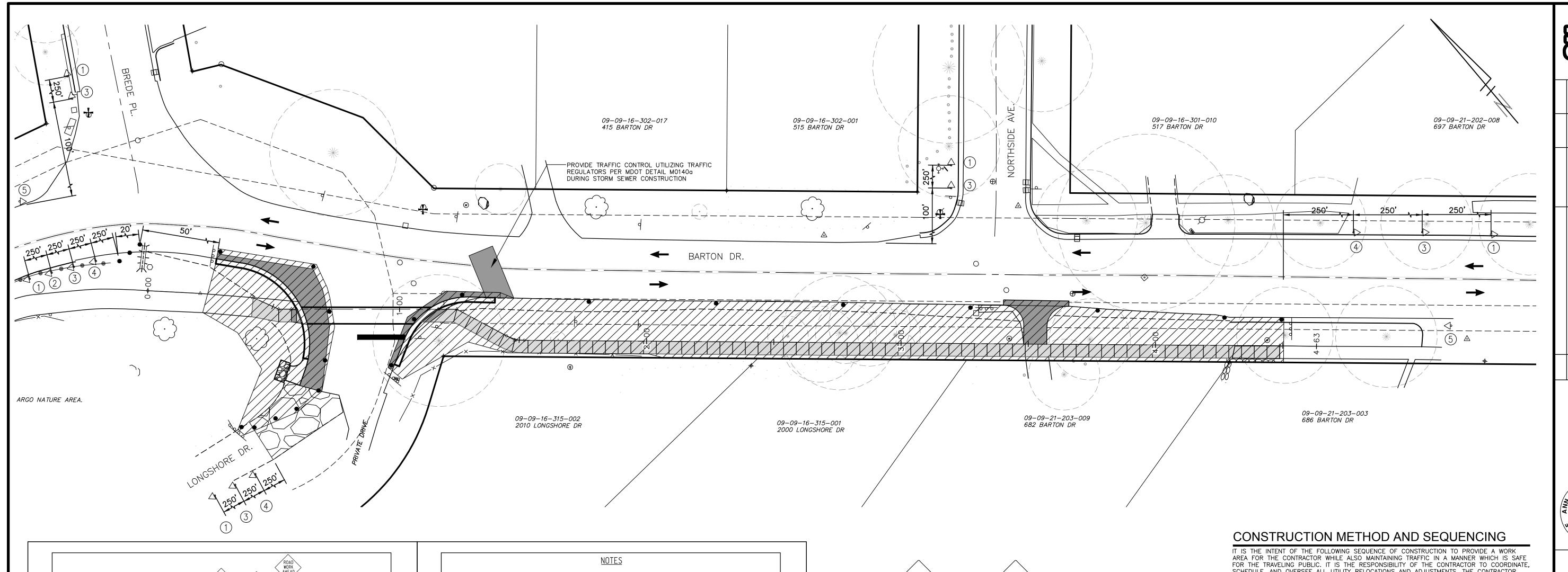


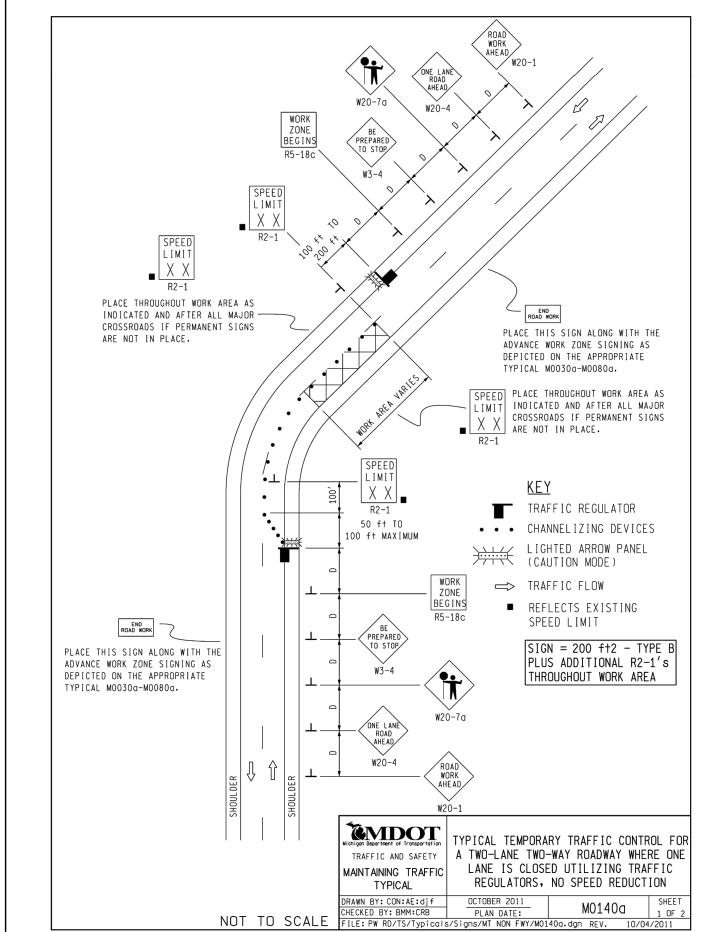










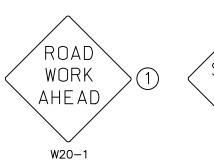


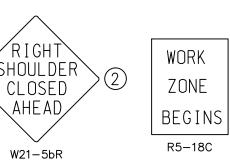
- 1H. D = DISTANCE BETWEEN TRAFFIC CONTROL DEVICES AND LENGTH OF LONGITUDINAL BUFFERS
- ALL NON-APPLICABLE SIGNING WITHIN THE CIA SHALL BE MODIFIED TO FIT CONDITIONS, COVERED OR REMOVED.
- 3. DISTANCES BETWEEN SIGNS, THE VALUES FOR WHICH ARE SHOWN IN TABLE D, ARE APPROXIMATE AND MAY NEED ADJUSTING AS DIRECTED BY THE ENGINEER.
- 3A. 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
- 4A. 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 AREA(S).
- 5. FOR OVERNIGHT CLOSURES, TYPE III BARRICADES SHALL BE LIGHTED.
- 6. 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.
- 7. ALL TEMPORARY SIGNS, TYPE III BARRICADES, THEIR SUPPORT SYSTEMS AND LIGHTING REQUIREMENTS SHALL MEET NCHRP 350 CRASHWORTHLY 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 MDOT WILL BE ALLOWED.
- 9. ALL TRAFFIC REGULATORS SHALL BE PROPERLY TRAINED AND SUPERVISED.
- 9A. IN ANY OPERATION INVOLVING MORE THAN ONE TRAFFIC REGULATOR, ONE PERSON SHOULD BE DESIGNATED AS HEAD TRAFFIC REGULATOR.
- 10. 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 (MMUTCD) AND THE CURRENT EDITION OF THE MDOT HANDBOOK ENTITLED "TRAFFIC REGULATORS INSTRUCTION MANUAL."
- 11. WHEN TRAFFIC REGULATING IS ALLOWED DURING THE HOURS OF DARKNESS, APPROPRIATE LIGHTING SHALL BE PROVIDED TO SUFFICIENTLY ILLUMINATE THE TRAFFIC REGULATOR'S STATIONS.
- 12E. 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.
- 13. 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.
- 14. ADDITIONAL SIGNING AND/OR ELONGATED SIGNING SEQUENCES SHOULD BE USED WHEN TRAFFIC VOLUMES ARE SIGNIFICANT ENOUGH TO CREATE BACKUPS BEYOND THE W3-4 SIGNS.
- 15. THE HAND HELD (PADDLE) SIGNS REQUIRED BY THE MMUTCD TO CONTROL TRAFFIC WILL BE PAID FOR AS PART OF FLAG CONTROL.
- 28E. 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.

	<u>S</u>	IGN	SI	ZES	
DIAMOND	WARNING	_	48"	v 48"	

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

ITYPICAL TEMPORARY TRAFFIC CONTROL FOR TRAFFIC AND SAFETY A TWO-LANE TWO-WAY ROADWAY WHERE ONE MAINTAINING TRAFFIC LANE IS CLOSED UTILIZING TRAFFIC REGULATORS, NO SPEED REDUCTION TYPICAL ORAWN BY: CON:AE:djf OCTOBER 2011
CHECKED BY: BMM:CRB PLAN DATE: M0140d NOT TO SCALE | CHECKED BY: BMM:CRB | PLAN DATE: | MU14U0 | 2 OF 2 | FILE: PW RD/TS/Typicals/Signs/MT NON FWY/M0140a.dgn REV. 10/04/2011











G20-2

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.

- 1. IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 2. PERFORM ALL REMOVALS AND TEMPORARY RESTORATIONS TO ALLOW ACCESS TO PROPERTIES ON BARTON DRIVE AND SCIO CHURCH ROAD.
- 3. BRING UP BASE COURSE MATERIAL. CONTRACTOR SHALL NOT LEAVE EXCAVATIONS OPEN
- 4. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 5. 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
- 6. COMPLETE ALL MISCELLANEOUS SIDEWALK AND CONSTRUCTION ITEMS, INCLUDING CLEAN-UP AND FINAL RESTORATION.
- 7. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

#### TRAFFIC CONTROLS

1. 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.

- 2. REFER TO CITY SPECIFICATIONS FOR DETAILS ON MATERIALS, EQUIPMENT, AND CONSTRUCTION METHODS.
- 3. ALL POSTS TO BE DRIVEN INTO GROUND.
- 4. CONTRACTOR TO FIELD STAKE ALL SIGNS AND CONTACT CITY FOR REVIEW AND APPROVAL OF SIGN PLACEMENT PRIOR TO INSTALLATION.
- 5. ACCESS TO DRIVEWAYS AND CROSS ROADS MUST BE MAINTAINED AT ALL TIME. 2 DAYS NOTICE MUST PROVIDED BEFORE TEMPORARY CLOSURES.
- 6. REFER TO MDOT STANDARD DETAIL M0140a DURING LANE CLOSURES.

#### **LEGEND**



DIRECTION OF TRAFFIC TYPE III BARRICADE

> 42" CHANNELING DEVICES AT 50' CENTER ON TANGENTS AND 25' ON TAPERS

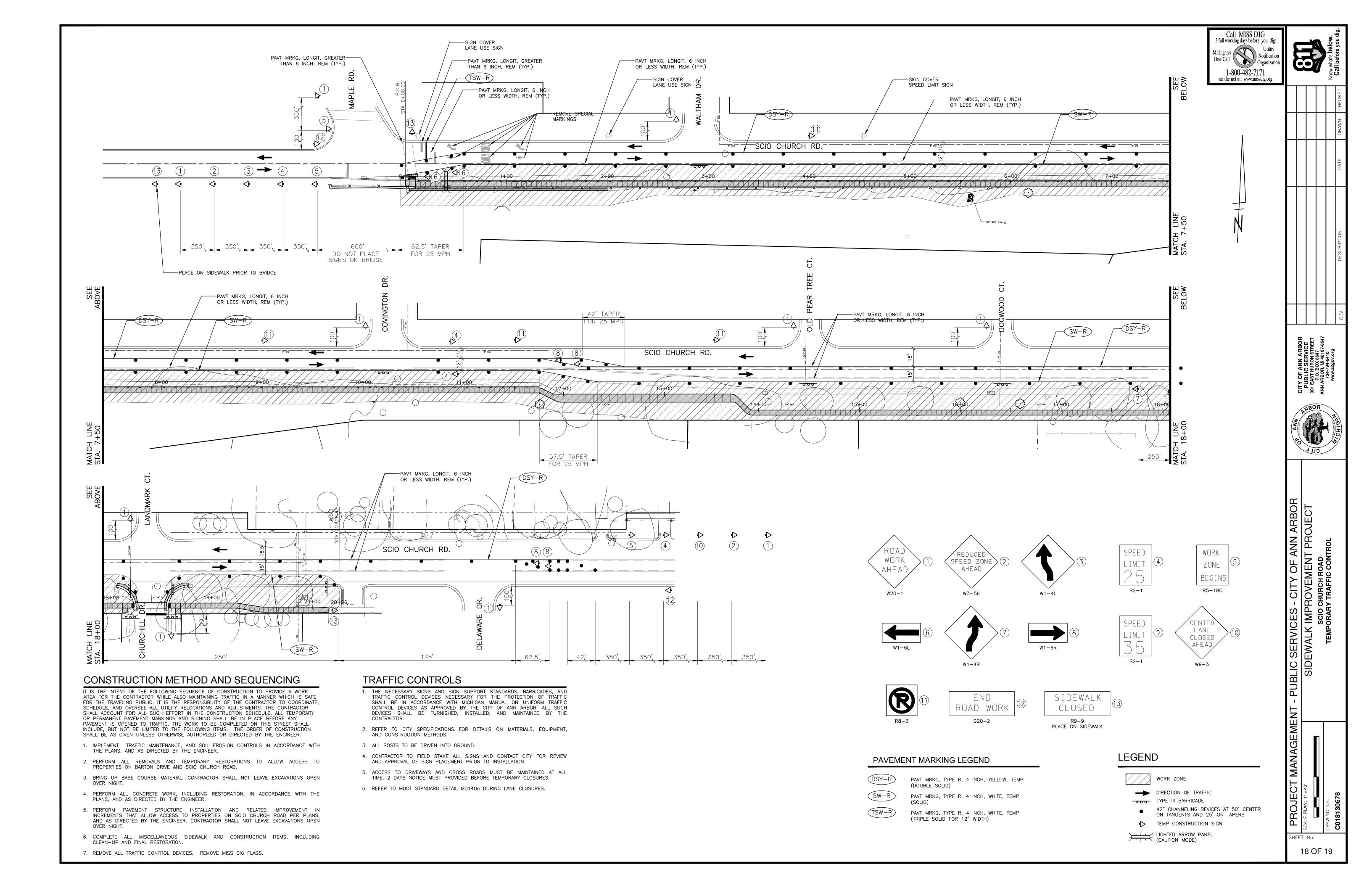
TEMP CONSTRUCTION SIGN

LIGHTED ARROW PANEL (CAUTION MODE)

OV TON TRAI

SHEET No.

17 OF 19



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

Č.	j	Know what's <b>below.</b>	Call before you dig.
			СНЕСКЕD

S	DRAWN CHECKED	DRAWN	DATE	DESCRIPTION



Ea

Ea

Syd

Ea

Ea

Ea

2

1378

100

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOI SCALE PLAN: 1" = 5" SCALE PLA

19 OF 19