



# CITY OF ANN ARBOR ENGINEERING

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

## NORTHSIDE STEAM SAFE ROUTES TO SCHOOL

MDOT JOB NO. 204944

MDOT CONTROL SECTION NO. TA 81000

**NOTES:**

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

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

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH 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 LOCAL AGENCY PROGRAMS GUIDELINES FOR GEOMETRICS ON LOCAL AGENCY PROJECTS 2017 EDITION, 2012 A.A.S.H.T.O. "GUIDE FOR PLANNING, DESIGN, AND OPERATION OF BICYCLE FACILITIES", AND THE TRAFFIC CONTROL IN ACCORDANCE WITH THE 2011 "MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".



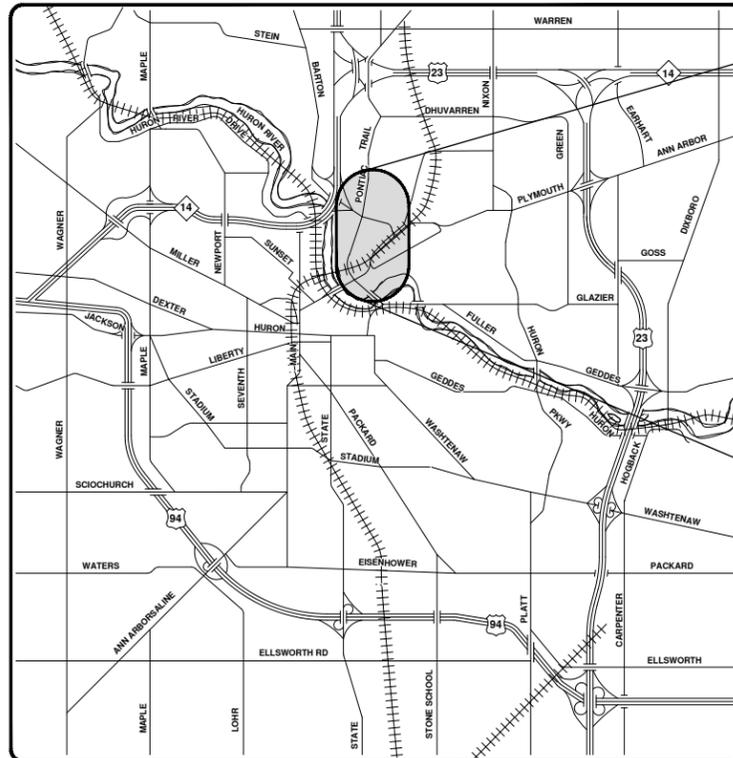
01	FINAL SUBMITTAL	3-15-2019	DF,CC	JKA	CHECKED
00	MDOT GI SUBMITTAL	10-8-2018	KG,DF,CC	JKA	DRAWN
	REV.	DATE			DESCRIPTION

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-1647  
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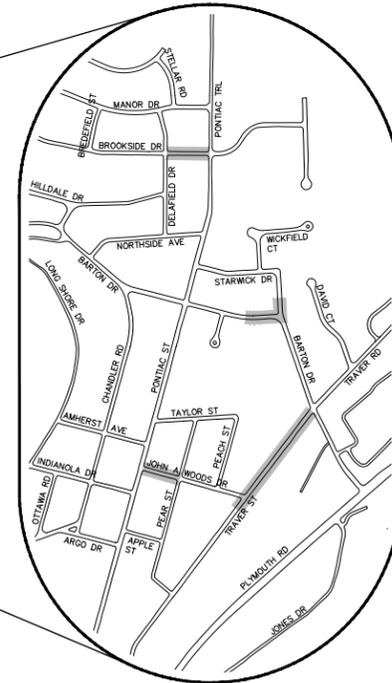


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
SCALE  
DRAWING No. 2018024-1  
SHEET No. 1 OF 34

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VICINITY MAP



STANDARD PLANS		
CONSTRUCTION OF THE FOLLOWING ITEMS, WHERE CALLED FOR ON THE PLANS, WILL BE CONSTRUCTED ACCORDING TO MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD PLANS AS INDICATED.		
REQUIRED ON THIS PROJECT	ITEM OF WORK	STANDARD PLAN NUMBERS
X	DRAINAGE STRUCTURES	R-1-G *
X	COVER B	R-7-F
X	COVER G	R-12-E
X	COVER K	R-15-F
X	SIDEWALK RAMP AND DETECTABLE WARNING DETAILS	R-28-J *
X	DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALKS	R-29-I
X	BUMPER & PARKING RAILS AND MISC. WOOD POSTS	R-74-D
X	SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96-E
X	SODDING, SEEDING AND TREE PLANTING	R-100-H
X	UTILITY TRENCHES	R-83-C
TRAFFIC AND SAFETY STANDARD PLANS		
X	GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS	WZD-100-A*
X	TEMPORARY TRAFFIC CONTROL DEVICES	WZD-125-E*

\* SPECIAL DETAIL LOCATED IN PROPOSAL

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	LEGEND AND NOTES
3	SESC NOTES AND DETAILS
4	TYPICAL SECTIONS
TRAFFIC CONTROL	
5	BARTON DRIVE
6 - 7	BROOKSIDE DRIVE - PHASE I & II
8 - 14	TRAVER STREET PHASE I, IIA & IIB
15	JOHN A WOODS DRIVE - PHASE I & II
REMOVALS	
16	BARTON DRIVE
17	BROOKSIDE DRIVE
18 - 20	TRAVER STREET
21	JOHN A WOODS DRIVE
PROPOSED SIDEWALK	
22	BARTON DRIVE
23	BROOKSIDE DRIVE
24 - 29	TRAVER STREET
30	JOHN A WOODS DRIVE
INTERSECTION GRADES	
31	BARTON DRIVE
32	BROOKSIDE DRIVE
33	TRAVER STREET
34	JOHN A WOODS DRIVE

PREPARED UNDER THE SUPERVISION OF

*Jane K Allen*  
JANE KATHERINE ALLEN, P.E. - MI LICENSE No. 57254  
PROJECT MANAGER



2/21/2019  
DATE

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**GENERAL NOTES:**

- 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.
- THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND SERVICE LEADS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- DURING NON-WORKING HOURS NO MORE THAN TEN (10) FEET OF TRENCH SHALL REMAIN OPEN; ANY OPEN TRENCH SHALL BE PROPERLY SECURED WITH PROTECTIVE FENCING. THIS WORK SHALL BE INCLUDED IN THE ITEMS OF WORK BEING UNDERTAKEN AND WILL NOT BE PAID FOR SEPARATELY.
- THE LOCATION OF MATERIAL STOCK PILES AND ON-SITE STAGING AREAS SHALL BE APPROVED BY THE ENGINEER.
- ALL EXCAVATION REQUIRED FOR PROJECT GRADING WITHIN THE PROJECT LIMITS, INCLUDING PROPOSED PAVEMENT, SIDEWALK, AND SIDEWALK RAMPS SHALL BE INCLUDED IN "SIDEWALK GRADING" OR "SIDEWALK RAMP GRADING".
- EXCAVATION, EARTH BEHIND CURB AND GUTTER SHALL BE INCLUDED IN "SIDEWALK GRADING" OR "SIDEWALK RAMP GRADING". ALL BACKFILL UNDER PROPOSED CONCRETE PAVEMENTS SUCH AS DRIVE APPROACHES, RAMPS, SIDEWALK, ETC., SHALL BE MDOT CLASS II GRANULAR MATERIAL, COMPACTED TO 95% OF ITS MAX. DRY DENSITY AND WILL BE PAID FOR AS "SUBBASE, CIP, CLASS II GRANULAR MATERIAL, MODIFIED." BACKFILL FOR OTHER AREAS MUST BE APPROVED BY THE ENGINEER AND COMPACTED TO 95% OF ITS MAX. DRY DENSITY. NO PAYMENT WILL BE MADE FOR SUB-BASE OR AGGREGATE BASE THAT EXTENDS BEYOND 12" BEHIND THE BACK OF CURB. REFERENCE THE TYPICAL CROSS SECTIONS.
- SOME STORM SEWER MAY UNAVOIDABLY BECOME DAMAGED DURING CONSTRUCTION, OR IT MAY BE DETERMINED BY THE ENGINEER THAT EXISTING STORM SEWER NEEDS TO BE REPLACED. IN EITHER CASE THE ENGINEER MAY DIRECT THE SEWER TO BE REMOVED AND REPLACED. THE REMOVAL OF THE EXISTING SEWER AND/OR DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE CONTRACT WORK ITEMS "SEWER, REM, LESS THAN

- 24 INCH" OR "DR STRUCTURE, REM" AND THE REPLACEMENT SEWER SHALL BE INSTALLED AND PAID FOR AT THE CORRESPONDING CONTRACT UNIT PRICE, IF CONTAINED WITHIN THE CONTRACT, FOR THE VARIOUS TYPES AND SIZES OF SEWER TO BE REPLACED.
- WHERE EXISTING SEWER AND/OR DRAINAGE STRUCTURES ARE TO BE REMOVED, THEY SHALL BE PROPERLY DISPOSED OF OFF-SITE AND THE EXCAVATION SHALL BE BACKFILLED WITH MDOT CLASS II GRANULAR MATERIAL COMPACTED TO 95% OF ITS MAX. DRY DENSITY. THIS WORK SHALL BE INCLUDED IN THE CONTRACT ITEMS "SEWER, REM, LESS THAN 24 INCH" AND/OR "DR STRUCTURE, REM."
- ALL FITTINGS, HYDRANTS, VALVES AND CASTINGS REMOVED DURING CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL STOCKPILE AND COORDINATE PICK UP BY THE CITY OF ANN ARBOR PUBLIC WORKS STAFF.
- PAYMENT FOR DRAINAGE STRUCTURE SUMPS WHERE SPECIFIED SHALL BE INCLUDED IN THE PAYMENT FOR THE VARIOUS DRAINAGE STRUCTURES SIZES AND/OR TYPES.
- WHERE PIPES OF DIFFERENT SIZES OR MATERIALS ARE JOINED, FERNCO FLEXIBLE COUPLINGS WITH STAINLESS STEEL SHEAR RINGS SHALL BE USED. ALL COSTS ASSOCIATED WITH THE INSTALLATION OF THESE DEVICES SHALL BE INCLUDED IN THE PAYMENT FOR THE SEWER.
- WHERE STORM SEWER IS TO BE REMOVED AND REPLACED OR ADDED, ALL PIPE SHALL BE INSTALLED USING THE UTILITY TRENCH DETAILS SHOWN ELSEWHERE IN THE PLAN SHEETS AND/OR DETAILED IN THE SPECIFICATIONS. TRENCH DETAILS I AND V REQUIRE THE USE OF MDOT CLASS II GRANULAR MATERIAL.
- IF THE CONTRACTOR ENCOUNTERS EXISTING EDGE DRAIN(S) DURING CONSTRUCTION OF THE PROPOSED EDGE DRAINS, INLET LEADS, OR CATCH BASINS, IT SHALL BE CAPPED AT EACH END TO PREVENT MATERIAL FROM ENTERING THE PIPE. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PARTICULAR ITEM OF WORK BEING PERFORMED WHEN EXISTING EDGE DRAIN(S) ARE ENCOUNTERED.
- EXISTING STREET NAME SIGNS, GUIDE, BUS STOP, AND REGULATORY SIGNS WHICH CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED PRIOR TO CONSTRUCTION, STORED IN A MANNER WHICH WILL PREVENT DAMAGE, AND RE-SET IN LOCATIONS AS DIRECTED BY THE ENGINEER.
- ALL CURB, SIDEWALK, DRIVEWAY APPROACH

- REMOVALS SHALL BE APPROVED BY THE ENGINEER BEFORE THE WORK IS PERFORMED.
- PLACE 4" (MINIMUM) THICKNESS CLASS II GRANULAR MATERIAL COMPACTED TO 95% OF ITS MAX. DRY DENSITY UNDER CONCRETE SIDEWALK AS SHOWN ON THE DETAILS. THIS WORK SHALL BE INCLUDED IN THE CONTRACT ITEMS "SUBBASE, CIP, CLASS II GRANULAR MATERIAL, MODIFIED."
  - PLACE 6" (MINIMUM) CLASS II GRANULAR MATERIAL COMPACTED TO 95% OF ITS MAX. DRY DENSITY UNDER DRIVE APPROACHES. THIS WORK SHALL BE INCLUDED IN THE CONTRACT ITEM "SUBBASE, CIP, CLASS II GRANULAR MATERIAL, MODIFIED."
  - A UNIFORM COAT(S) OF CURING COMPOUND SHALL BE APPLIED ACCORDING TO THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS REGARDLESS OF THE DIFFICULTY INVOLVED. THE CONTRACTOR SHALL TAKE CARE TO PREVENT OVERSPRAY WHEN APPLYING CURING COMPOUND. SEVERAL DIFFERENT METHODS MAY NEED TO BE DEVELOPED TO PROTECT VARIOUS SITUATIONS, BUT ALL METHODS USED TO PREVENT OVERSPRAY OF THE CURING COMPOUND SHALL BE COMPLETELY EFFECTIVE. METHODS USED SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE, HOWEVER APPROVAL OF A METHOD DOES NOT GUARANTEE SUCCESS OR ACCEPTABILITY. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR COMPLYING WITH THESE REQUIREMENTS.

**EXISTING LEGEND**

	FIRE HYDRANT		WATER MAIN
	GATE VALVE IN BOX		WATER MAIN ABANDONED
	GATE VALVE IN WELL		STORM SEWER
	STOP BOX		STORM SEWER ABANDONED
	WATER VAULT		SANITARY SEWER
	WELL		SANITARY SEWER ABANDONED
	CATCH BASIN (SQ)		GAS MAIN
	CATCH BASIN (RD)		GAS MAIN (DEAD)
	STORM MANHOLE		ELECTRICAL OVER HEAD
	NON-CURB CATCH BASIN (SQ)		ELECTRICAL UNDER GROUND
	END SECTION		ELECTRICAL DUCT BANK
	SANITARY MANHOLE		TELEPHONE OVER HEAD
	CLEAN-OUT		TELEPHONE UNDER GROUND
	POST		TELEPHONE DUCT BANK
	PEDESTRIAN SIGNAL		CABLE TV OVER HEAD
	SIGN		CABLE TV UNDER GROUND
	HAND HOLE		FIBER OPTIC
	ORNAMENTAL LIGHT		FIBER OPTIC DUCT BANK
	FLOOD LIGHT		BOUNDARY
	UNKNOWN MANHOLE		BUILDING
	TELEPHONE MANHOLE		CENTERLINE OF DITCH
	TELEPHONE RISER		CENTERLINE/CROWN OF ROAD
	GAS VALVE		CONTOUR MAJOR
	GAS VENT		CONTOUR MINOR
	GAS BOX		EDGE OF WATER
	ELECTRICAL RISER		FLOODPLAIN
	TRANSFORMER		FENCE
	UTILITY POLE		GRAVEL
	LAMP POLE		GUARDRAIL
	GUY ANCHOR		STONE WALL
	GUY POLE		R.O.W.
	MONITORING WELL		TREELINE
	MAILBOX		WETLAND
	SOIL BORING		EDGE OF BRUSH
	TRAVERSE POINT		HEDGE
	BENCH MARK		
	IRON PIPE		
	MAN BOX		

**PROPOSED LEGEND**

	HYDRANT (PLAN)		WATER MAIN
	WATER GATE WELL		STORM SEWER
	REDUCER		SANITARY SEWER
	WATER GATE VALVE		FIBER OPTIC
	WATER STOP BOX		ELECTRICAL
	WATER VAULT		CENTERLINE OF DITCH
	INLET		CENTERLINE OF ROAD
	DOUBLE INLET		FENCE
	INLET JUNCTION CHAMBER		GRAVEL
	ROUND CATCH BASIN		SILT FENCE
	STORM MANHOLE		PROTECTIVE FENCE
	DRAIN ARROW		GUARDRAIL
	FLARED END SECTION		LOT/UNIT
	SANITARY MANHOLE		CURB
	CLEAN-OUT		TEMPORARY GRADING PERMIT
	BARREL		CONTOUR MAJOR
	SIGN		CONTOUR MINOR
	PUSH BUTTON		WATER EASEMENT
	HAND HOLE		STORM EASEMENT
			SANITARY EASEMENT
			R.O.W.
			LIMITS OF CONSTRUCTION
			LIMIT OF GRADING
			STONE WALL

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

**CONTACT INFORMATION**

PUBLIC UTILITIES	OWNER	CONTACT
WATER		DAN WOODEN
SEWER		TRAVIS CONELEY
FORESTRY		CHUCK FOJTIK (734) 794-6361
SIGNS SIGNALS STREET LIGHTS		
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	ROBERT CZAPIEWSKI (734) 544-7818
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	ANTHONY IGNASIAK (734) 397-4447
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	JEFF LEHMAN SR (734) 996-5334
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016
FIBER OPTICS	WINDSTREAM 1295 S LINDEN ROAD, SUITE B FLINT, MI 48532	GREG SERICH (810) 244-3500
STREET LIGHTING	DTE ENERGY 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	LANCE ALLEY (734) 397-4188

**JOHN A WOODS DRIVE BENCHMARKS**

BM #	ELEV	DESCRIPTION
7	852.876	FND RR SPIKE IN W. SIDE OF U.P. @ N.E. CORNER OF PEAR ST. AND JOHN A. WOODS (BK 1104 P 51)
9	848.259	SET RR SPIKE IN N.W. SIDE OF U.P. @ S.E. CORNER OF JOHN A. WOODS AND PONTIAC TRAIL.
10	850.560	SET RR SPIKE IN W. SIDE OF L.P. ON E. SIDE OF PEAR ST. BETWEEN HSE NO.'S 1544 AND 1548.
11	848.235	SET RR SPIKE IN S.E. SIDE OF L.P. @ N.W. CORNER OF PEAR ST. AND APPLE ST.
12	843.200	SET RR SPIKE IN S.W. SIDE OF U.P. @ N.E. CORNER OF APPLE ST. AND PONTIAC TRAIL.
13	840.418	FND MAG NAIL IN S. SIDE OF U.P. ON W. SIDE OF PEAR ST. @ BEND IN ROAD
14	834.919	SET RR SPIKE IN W. SIDE OF U.P. ON E. SIDE OF TRAVER ST.

**TRAVER STREET BENCHMARKS**

BM #	ELEV	DESCRIPTION
1	856.580	FND RR SPIKE IN S. SIDE OF L.P. @ N.W. CORNER OF PEACH ST. AND JOHN A. WOODS (BK 1104 P 52)
2	853.630	FND "BM SPIKE" IN N. SIDE OF U.P. @ S.E. CORNER OF JOHN A. WOODS AND TRAVER ST.
3	855.883	FND RR SPIKE IN S. SIDE OF U.P. @ N.W. CORNER OF JOHN A. WOODS AND TRAVER ST.
4	833.074	SET RR SPIKE IN W. SIDE OF L.P. ON E. SIDE OF TRAVER ST. POLE IS 40± S. OF CL DRIVE FOR HSE NO. 1616.
5	821.794	SET RR SPIKE IN U.P. ON W. SIDE OF TRAVER ST. POLE IS 75± N. OF CL DRIVE FOR HSE NO. 1643.
6	819.055	SET RR SPIKE IN W. SIDE OF U.P. @ S.W. CORNER OF TRAVER ST. AND BARTON DR.
7	852.876	FND RR SPIKE IN W. SIDE OF U.P. @ N.E. CORNER OF PEAR ST. AND JOHN A. WOODS (BK 1104 P 51)
8	851.629	FND RR SPIKE IN N. SIDE OF L.P. @ S.W. CORNER OF PEAR ST. AND JOHN A. WOODS (BK 1104 P 52)

**BROOKSIDE DRIVE BENCHMARKS**

BM #	ELEV	DESCRIPTION
1015	854.720	CITY OF ANN ARBOR BENCHMARK @ INTERSECTION OF DELAFIELD DR. AND BROOKSIDE DR.
1	856.128	SET RR SPIKE IN S. SIDE OF L.P. @ N.E. CORNER OF BROOKSIDE DR. AND DELAFIELD DR.
2	859.819	SET RR SPIKE IN S. SIDE OF U.P. ON N. SIDE OF BROOKSIDE DR. BETWEEN HSE NO.'S 701 AND 719
3	871.119	TOP OF SW ANCHOR BOLT FOR L.P. @ SE CORNER OF BROOKSIDE DR. AND PONTIAC TRAIL

**BARTON DRIVE BENCHMARKS**

BM #	ELEV	DESCRIPTION
1017	856.440	CITY OF ANN ARBOR BENCHMARK @ NORTHSIDE SCHOOL.
1	854.398	SET RR SPIKE IN L.P. ON W. SIDE OF STARWICK DR. BETWEEN HSE NO.'S 823 AND 880
2	851.209	SET RR SPIKE IN W. SIDE OF L.P. ON ELY SIDE OF BARTON DR. BETWEEN HSE NO.'S 901 AND 899.
3	857.853	STEAMER VALVE ON FIRE HYDRANT ON S. SIDE OF BARTON DR. BETWEEN HSE NO.'S 820 AND 900.

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

PERMIT	ISSUING AUTHORITY
LANE CLOSURE PERMIT	CITY OF ANN ARBOR ENGINEERING
"NO PARKING" SIGNS PERMIT	CITY OF ANN ARBOR ENGINEERING
GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT	CITY OF ANN ARBOR CUSTOMER SERVICE
RIGHT-OF-WAY PERMIT	CITY OF ANN ARBOR CUSTOMER SERVICE
* NO COST TO CONTRACTOR	



**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**NORTHSIDE STEAM SAFE ROUTES TO SCHOOL**

SCALE: NTS  
DRAWING No. 2018024-2  
SHEET No. 2 OF 34

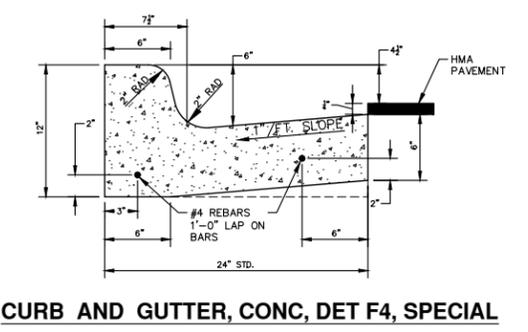
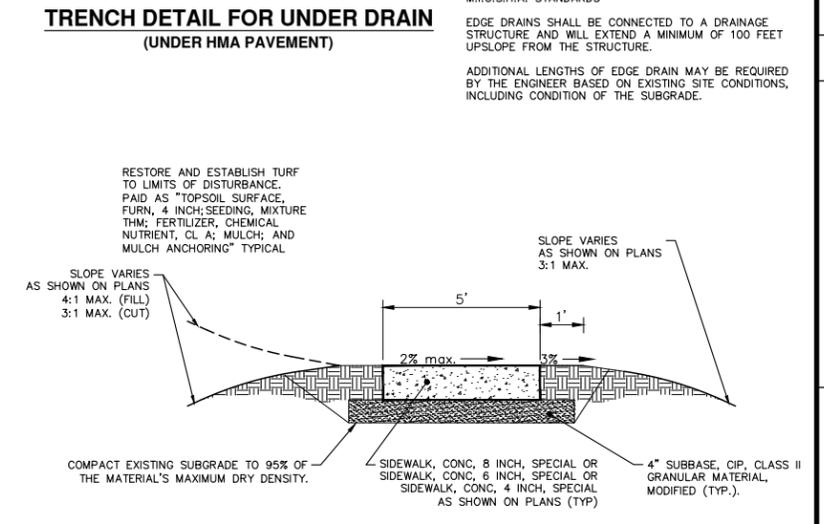
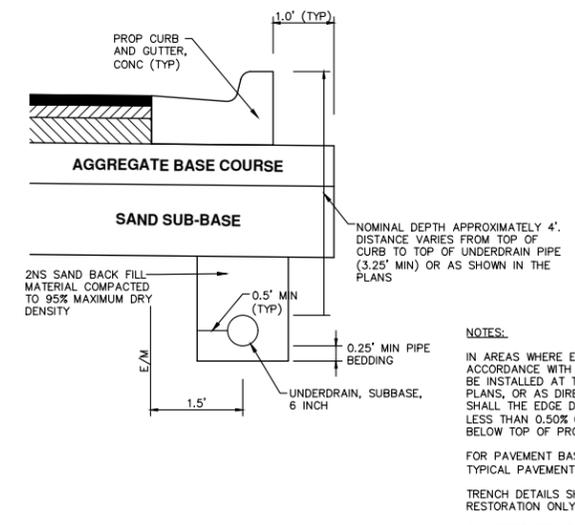
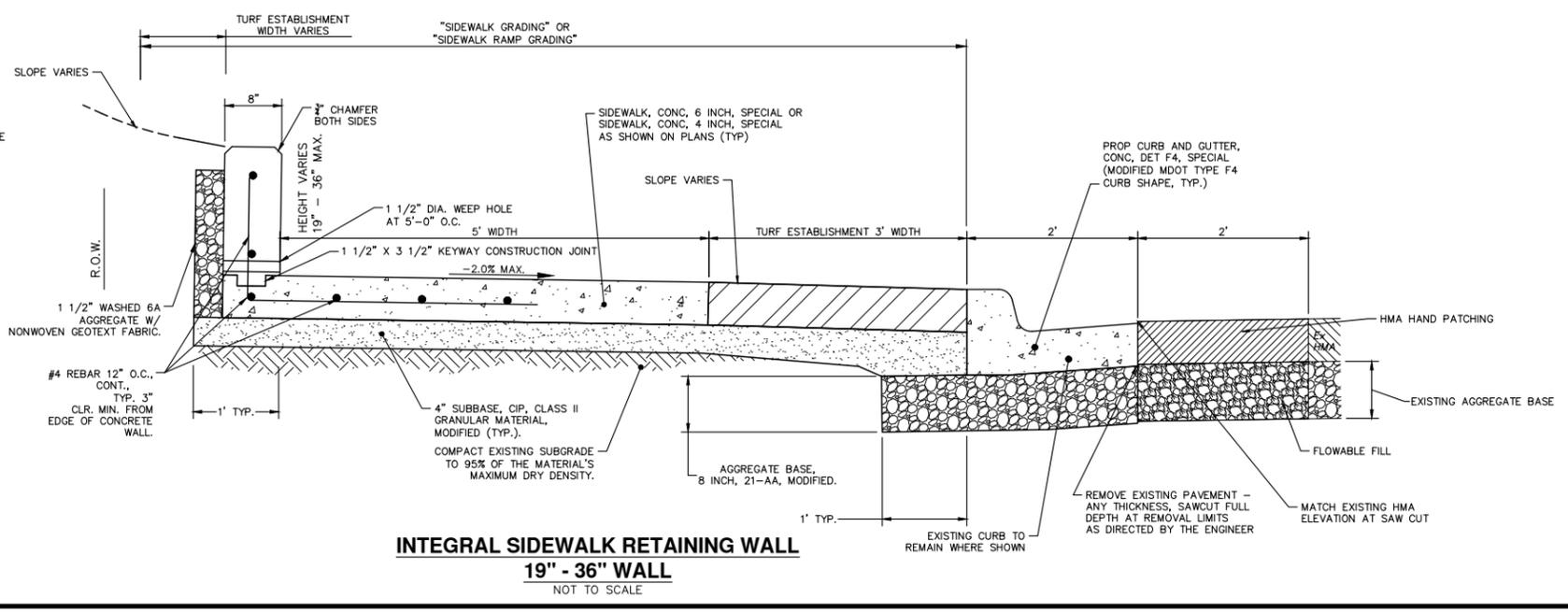
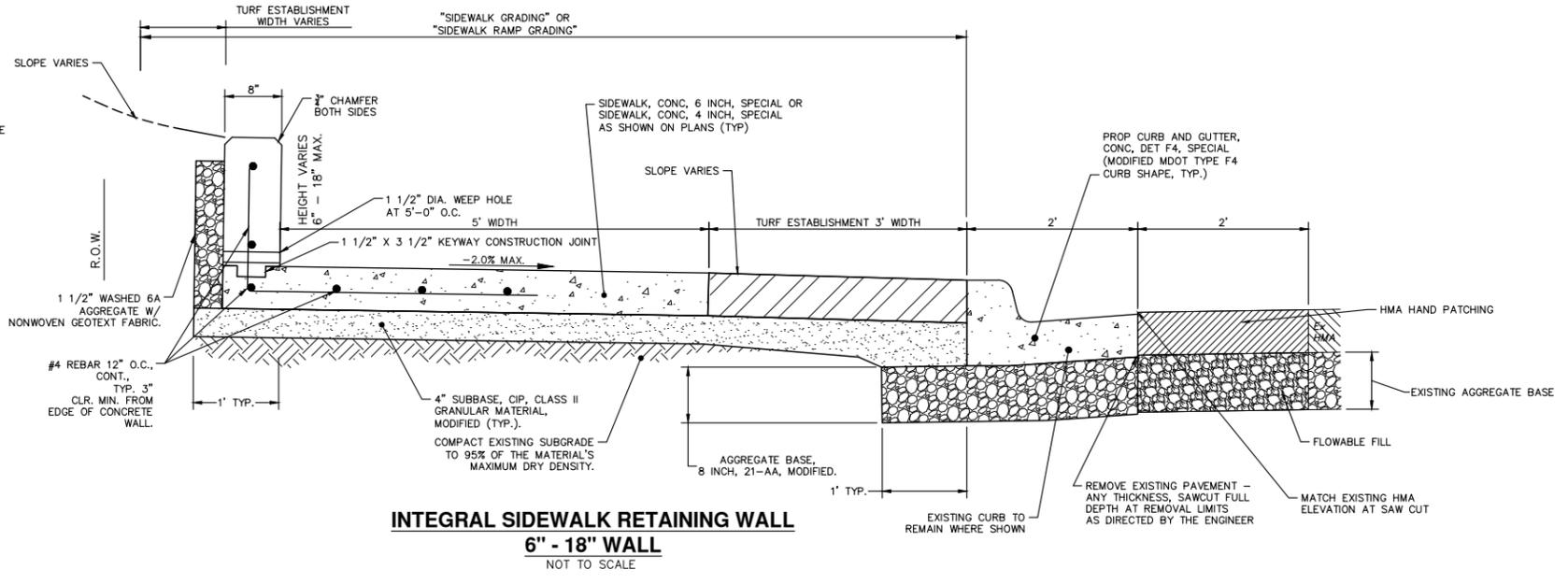
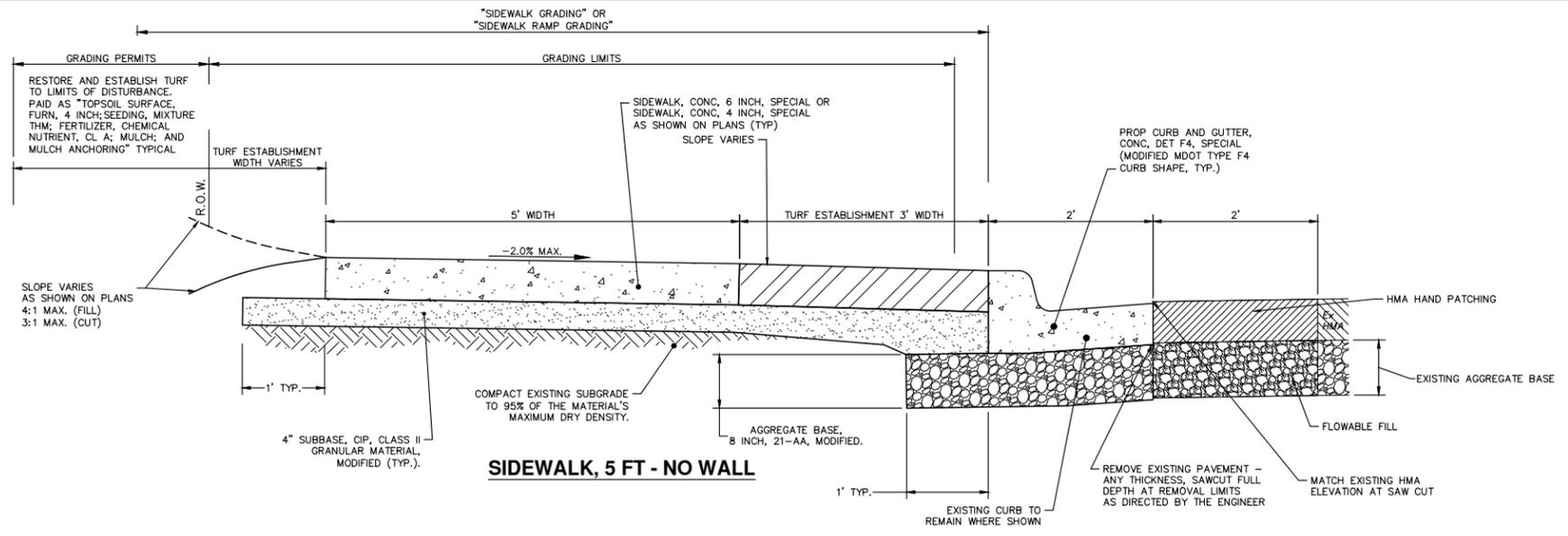
01	FINAL SUBMITTAL	3-15-2019	DF,CC	JK,AK	CHECKED
00	MDOT GI SUBMITTAL	10-8-2018	KB,DF,CC	JK,AK	DRAWN
REV.	DESCRIPTION	DATE			

Know what's below. Call before you dig.

811

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





**NOTES:**  
 IN AREAS WHERE EDGE DRAIN CANNOT BE INSTALLED IN ACCORDANCE WITH THE DETAIL, 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 TOP OF PROPOSED PAVEMENT.  
 FOR PAVEMENT BASE AND SUBBASE THICKNESS, SEE TYPICAL PAVEMENT CROSS-SECTION(S)  
 TRENCH DETAILS SHOW TYPE OF BACKFILL AND SURFACE RESTORATION ONLY  
 ALL TRENCHING TO CONFORM TO ALL APPLICABLE M.I.O.S.H.A. STANDARDS  
 EDGE DRAINS SHALL BE CONNECTED TO A DRAINAGE STRUCTURE AND WILL EXTEND A MINIMUM OF 100 FEET UPSLOPE FROM THE STRUCTURE.  
 ADDITIONAL LENGTHS OF EDGE DRAIN MAY BE REQUIRED BY THE ENGINEER BASED ON EXISTING SITE CONDITIONS, INCLUDING CONDITION OF THE SUBGRADE.

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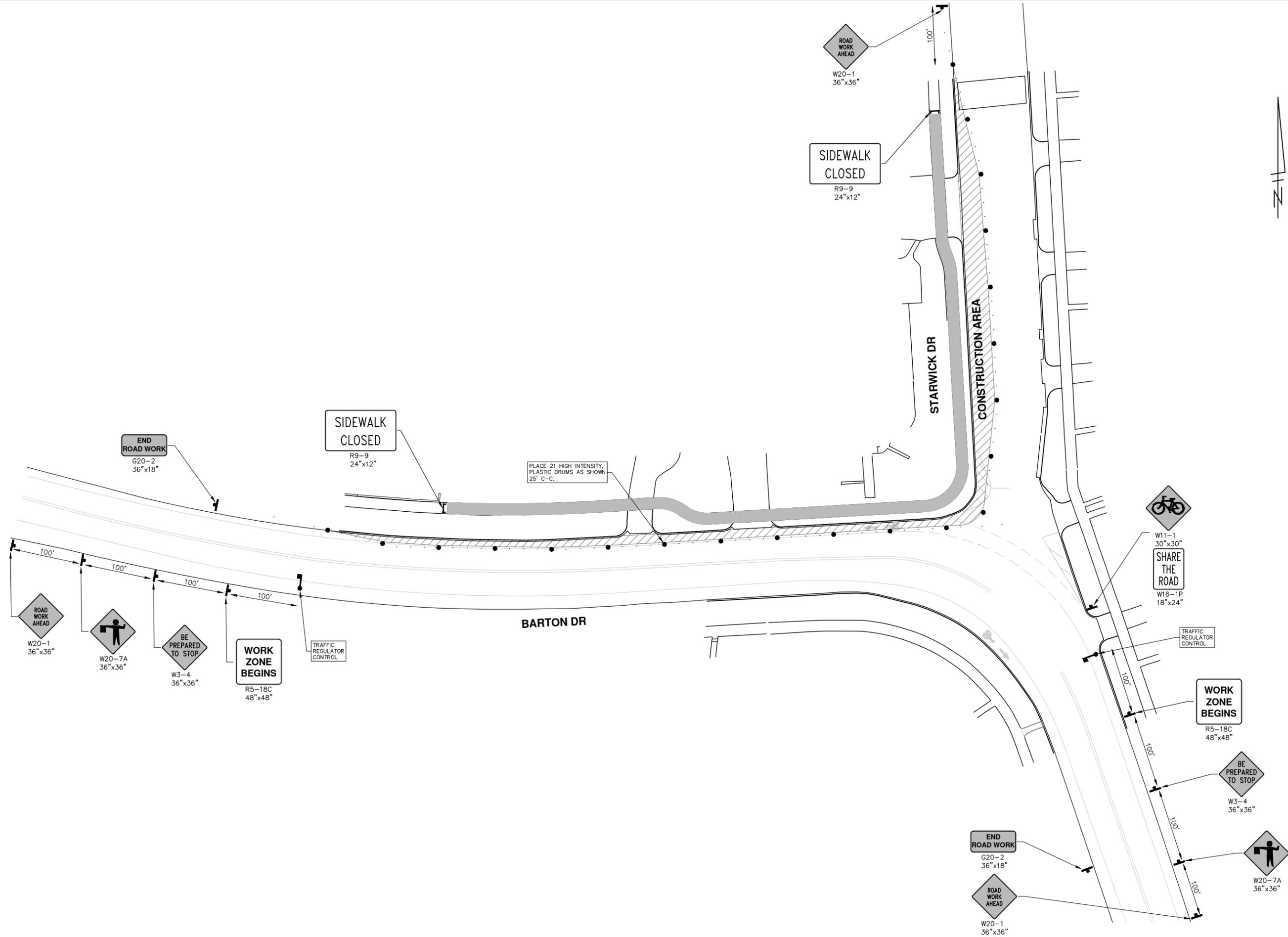


**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
 NORTHSIDE STEAM SAFE ROUTES TO SCHOOL  
 TYPICAL SECTIONS

01	FINAL SUBMITTAL	3-15-2019	DF,CC	JKA					
00	MDOT GI SUBMITTAL	10-8-2018	KB,DF,CC	JKA					
	DESCRIPTION	DATE	DRAWN	CHECKED					

SHEET No. **4 OF 34**  
 SCALE: NTS  
 DRAWING No. **2018024-4**

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**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**NORTHSIDE STEAM SAFE ROUTES TO SCHOOL**  
 TRAFFIC CONTROL  
 BARTON DRIVE

SCALE PLAN: 1" = 20'  
 DRAWING No. 2018024-5

**CITY OF ANN ARBOR**  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-6647  
 ANN ARBOR, MI 734-784-4410  
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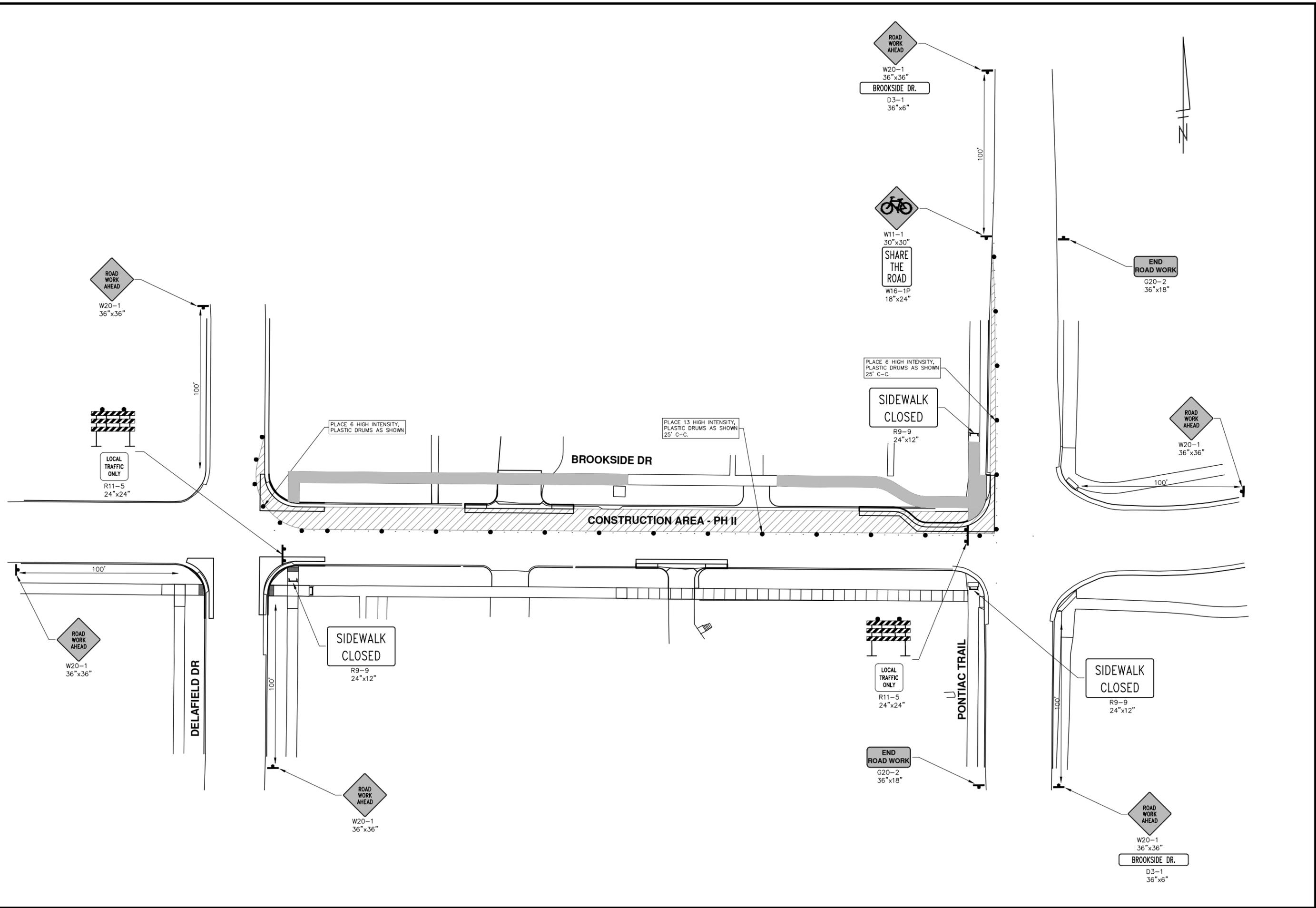
ANN ARBOR  
 MI  
 CITY

REV.	DATE	DESCRIPTION	DRAWN	CHECKED
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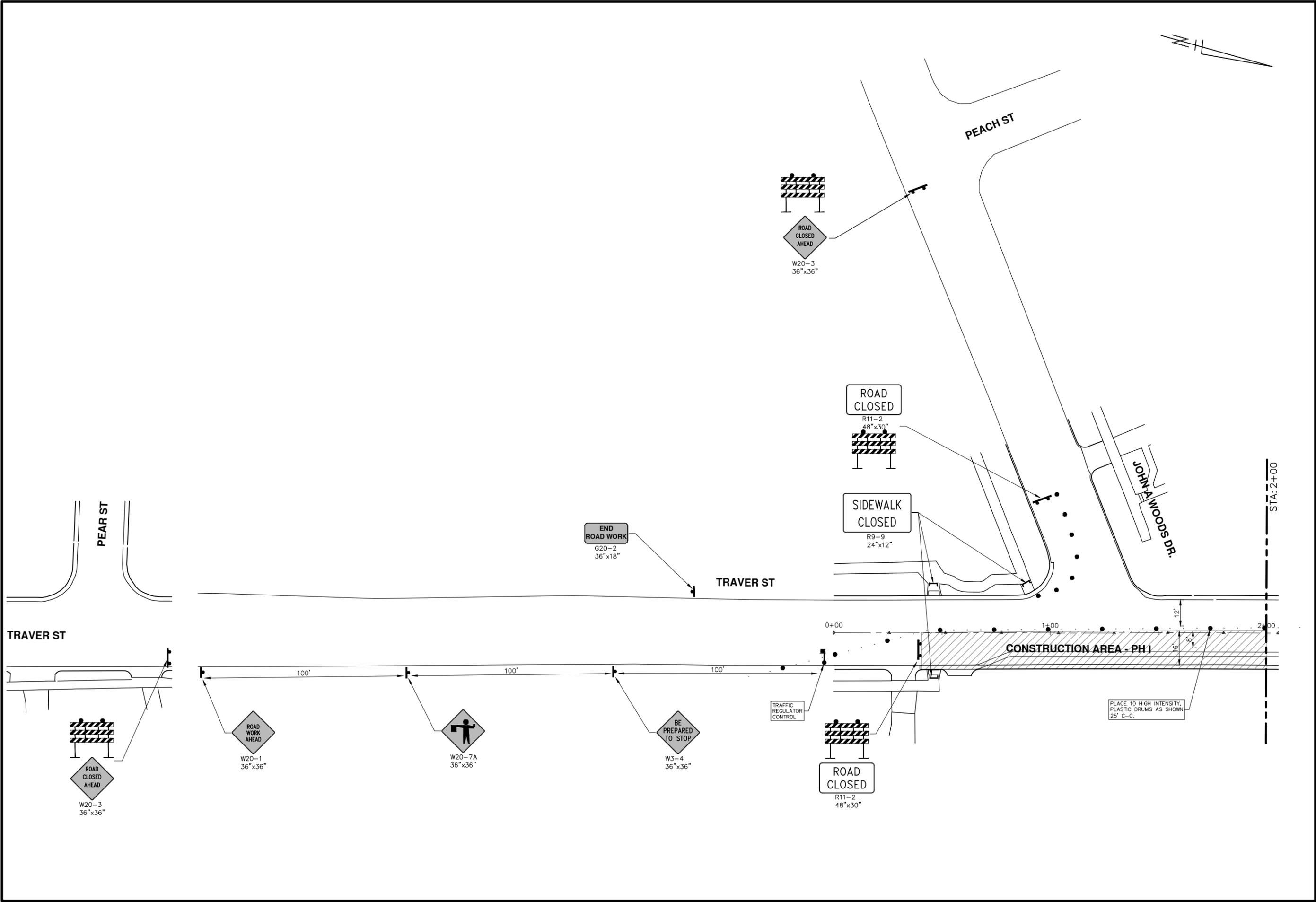


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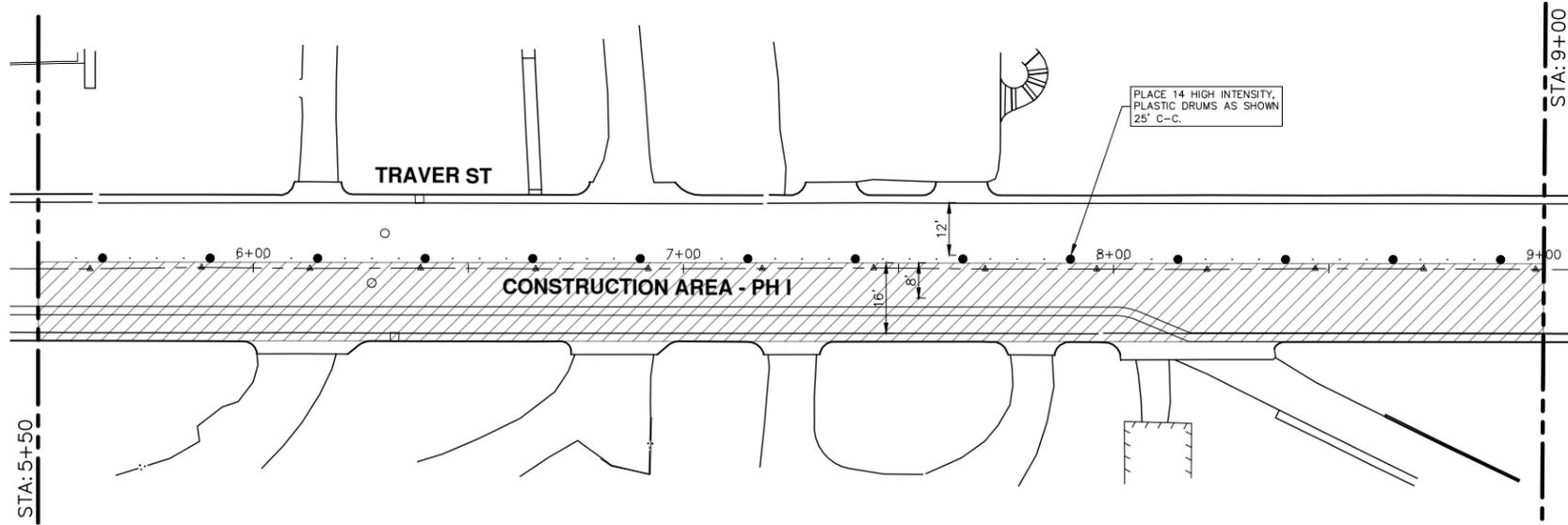
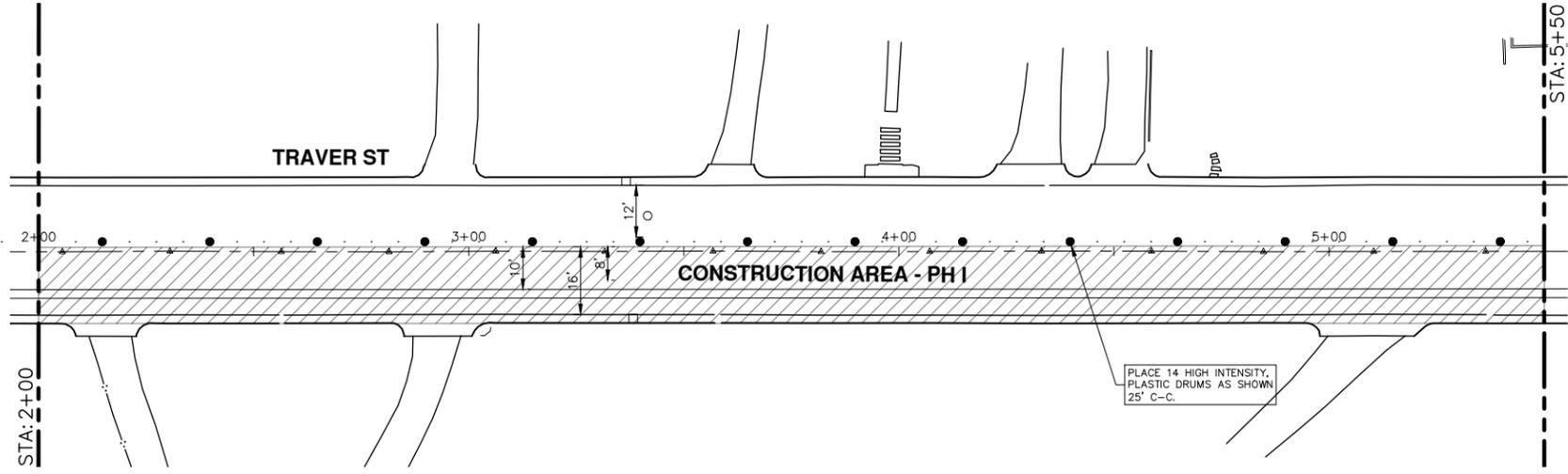


	
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING NORTHSIDE STEAM SAFE ROUTES TO SCHOOL TRAFFIC CONTROL BROOKSIDE DRIVE - PHASE II	
SCALE PLAN: 1" = 20' DRAWING No. 2018024-7	SHEET No. 7 OF 34
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-0647 www.a2gov.org	
01 FINAL SUBMITTAL 10-8-2018	JKA DATE
00 MDOT GI SUBMITTAL REV.	JKA DATE
DF,CC DRAWN	DF,CC CHECKED
KNOW WHAT'S BELOW Call Before you dig.	

R:\2018024 Northside STEAM SRTS\Plan Production\2018024Mtrf.dwg Dwg Created: 13-Mar-19 - \_a2 standard bw.stb - Plot Date: 15-Mar-19



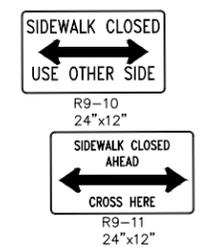
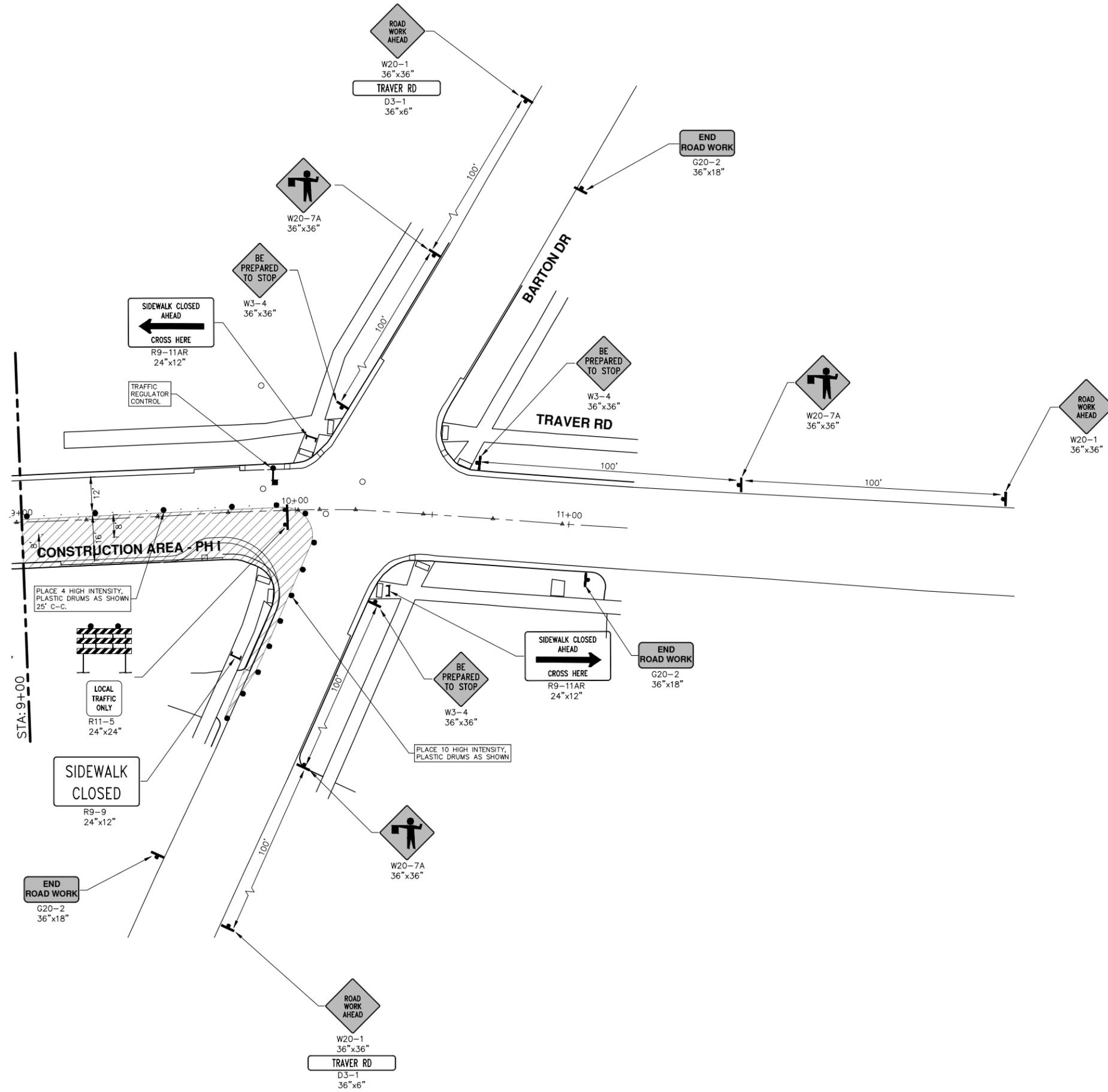
<b>CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING</b> NORTHSIDE STEAM SAFE ROUTES TO SCHOOL TRAFFIC CONTROL TRAVER STREET - PHASE I			CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-0867 www.a2gov.org	
SCALE: 1" = 20' DRAWING No. <b>2018024-8</b>	SHEET No. <b>8 OF 34</b>		REV. 01 FINAL SUBMITTAL 3-15-2019 JKA 00 MDOT GI SUBMITTAL 10-8-2018 JKA DATE DRAWN CHECKED	JKA JKA JKA



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	FINAL SUBMITTAL	3-15-2019	DF,CC	JKA
00	MDOT GI SUBMITTAL	10-8-2018	KG,DF,CC	JKA



R:\2018024 Northside STEAM SRTS\Plan Production\2018024Mtrf.dwg Dwg Created: 13-Mar-19 - \_a2 standard bw.stb - Plot Date: 15-Mar-19



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**NORTHSIDE STEAM SAFE ROUTES TO SCHOOL**  
 TRAFFIC CONTROL  
 TRAVER STREET - PHASE I

SCALE: 1" = 20'  
 DRAWING No. 2018024-10

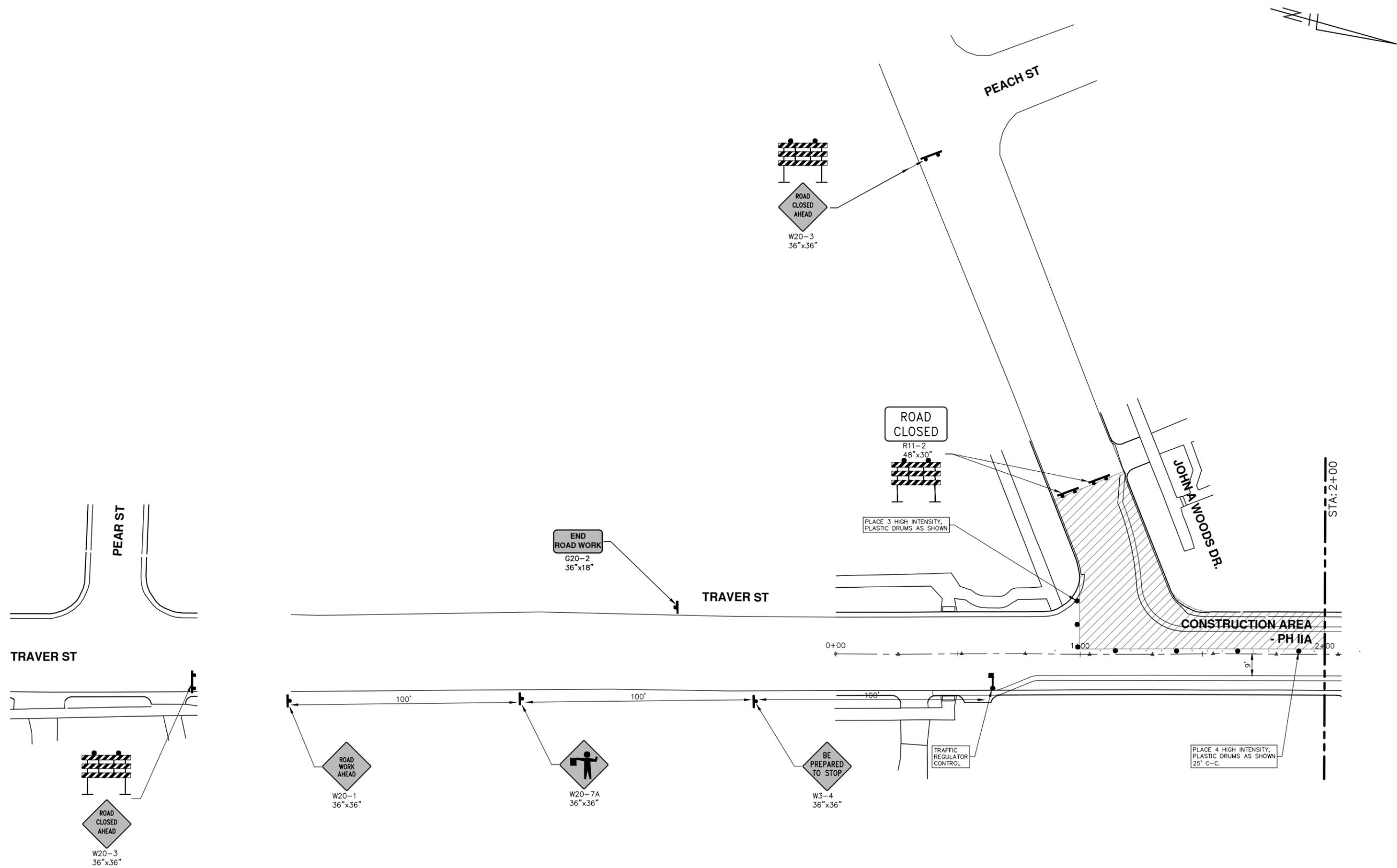
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01 FINAL SUBMITTAL 3-15-2019 JKA  
 00 MDOT GI SUBMITTAL 10-8-2018 JKA

REV. DESCRIPTION DATE DRAWN CHECKED

SHEET No. **10 OF 34**

R:\2018024 Northside STEAM SRTS\Plan Production\2018024Mtrf.dwg Dwg Created: 13-Mar-19 --\_a2 standard bw.stb -- Plot Date: 15-Mar-19



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 NORTHSIDE STEAM SAFE ROUTES TO SCHOOL  
 TRAFFIC CONTROL  
 TRAVER STREET - PHASE IIA

SCALE: 1" = 20'  
 DRAWING No. 2018024-11

SHEET No. 11 OF 34

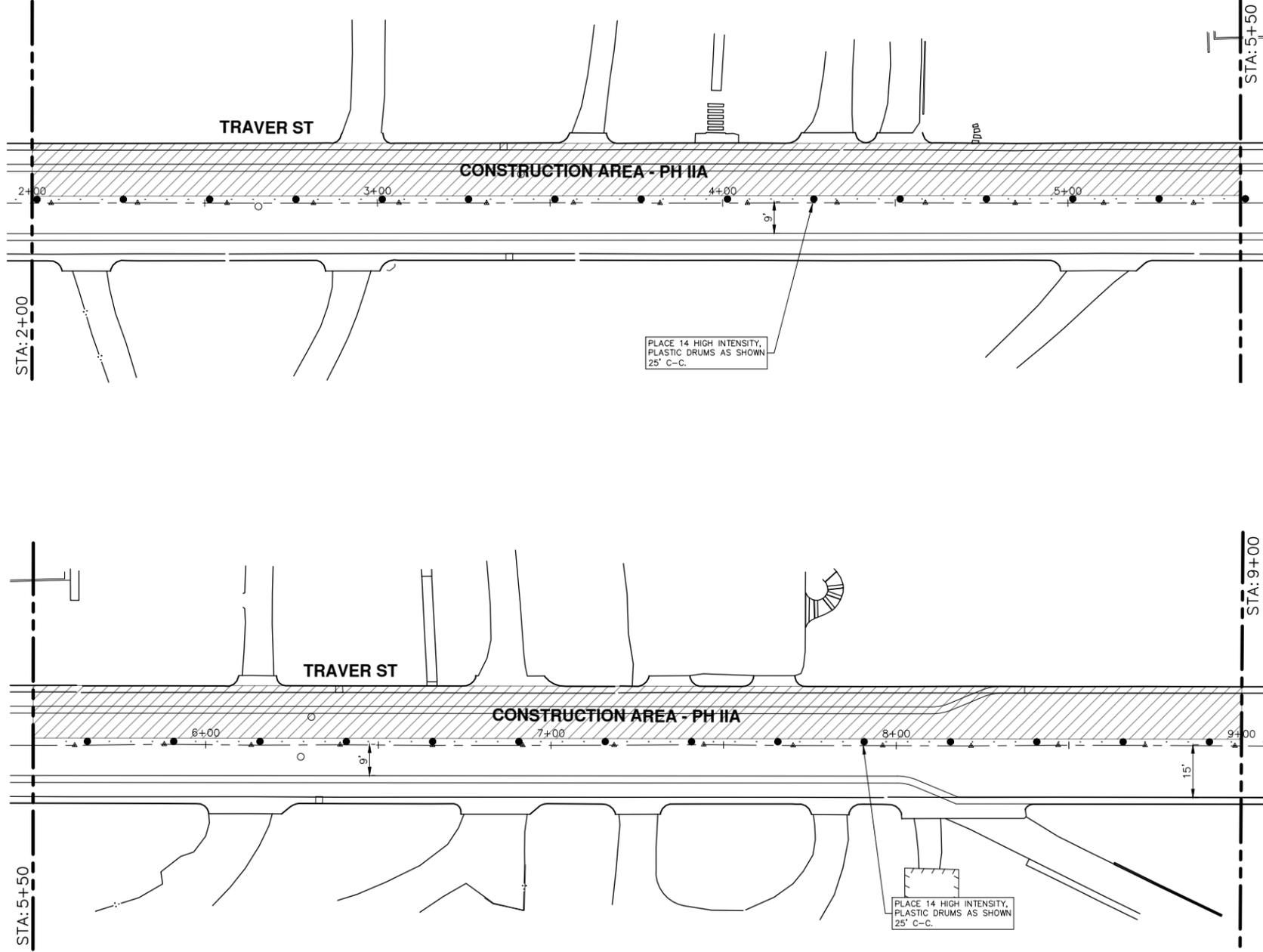
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	FINAL SUBMITTAL	3-15-2019	DF.CC	JKA
00	MDOT GI SUBMITTAL	10-8-2018	KG.DF.CC	JKA





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 SCALE: 1" = 20'  
 DRAWING No. 2018024-12

NORTHSIDE STEAM SAFE ROUTES TO SCHOOL  
 TRAFFIC CONTROL  
 TRAVER STREET - PHASE IIA

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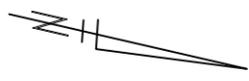
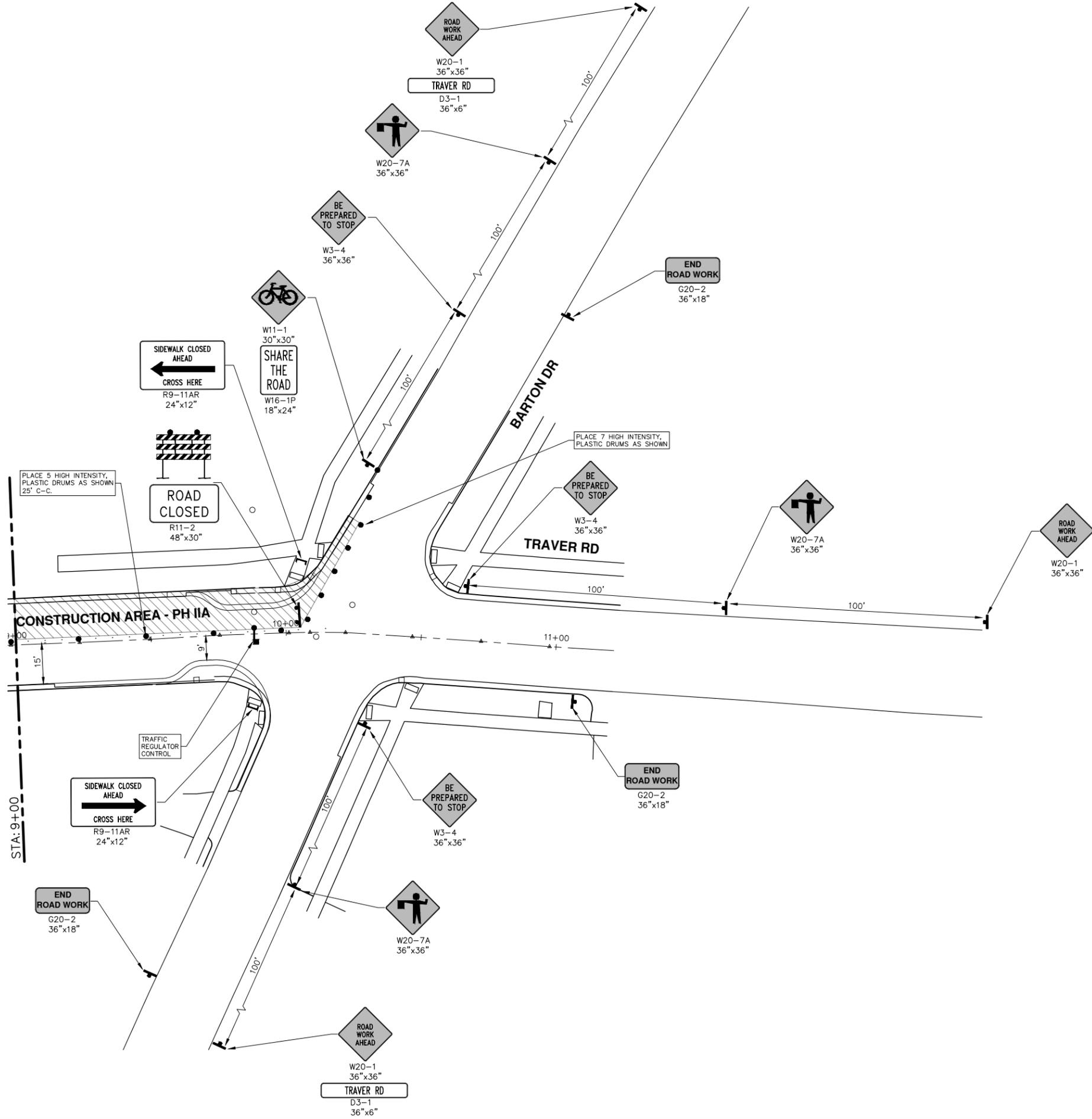


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00	MDOT GI SUBMITTAL

DATE	DRAWN	CHECKED
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10-8-2018	KG.DF.CC	JKA



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	MDOT GI SUBMITTAL	10-8-2018	KG,DF,CC	JKA

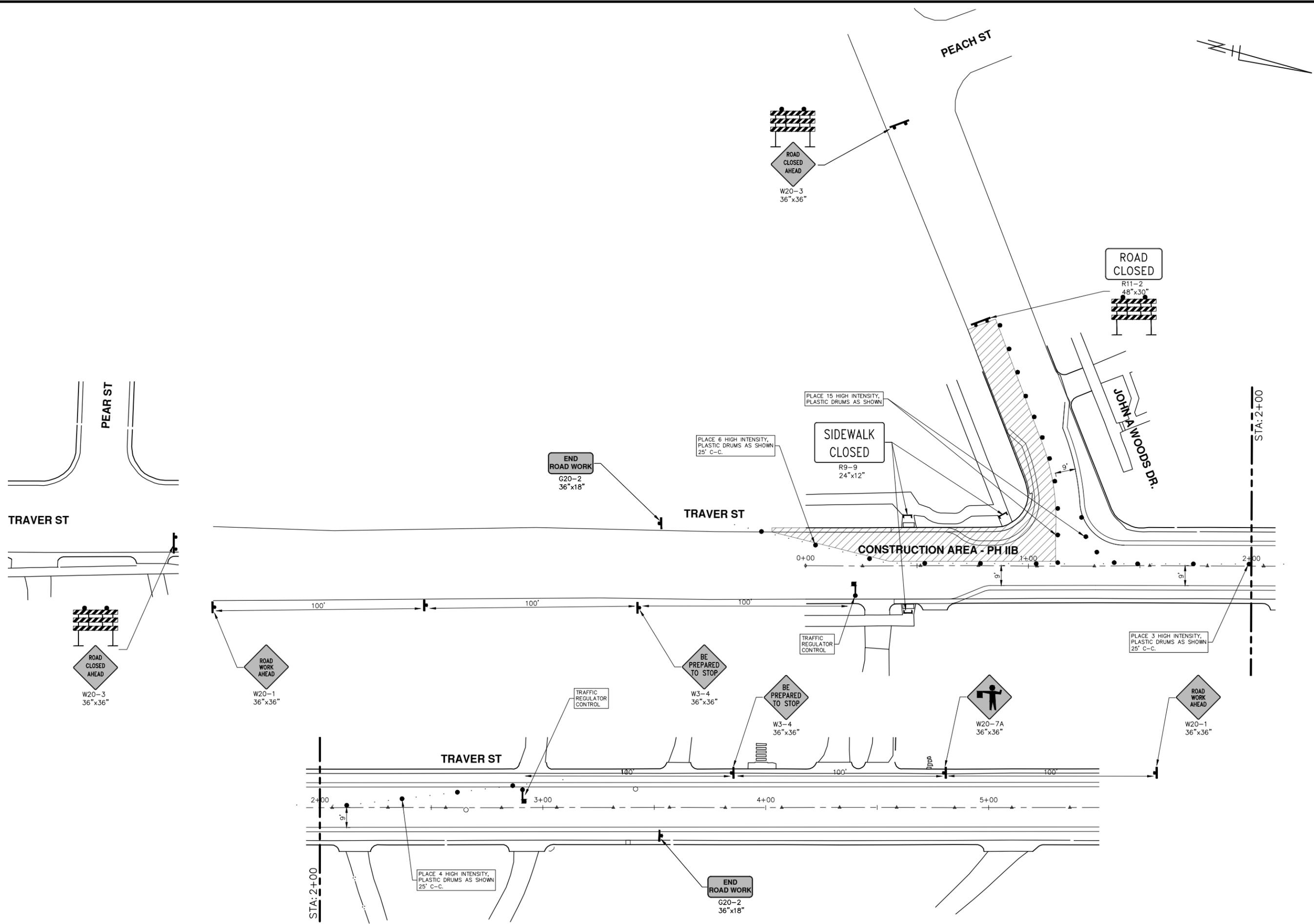
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**NORTHSIDE STEAM SAFE ROUTES TO SCHOOL**  
TRAFFIC CONTROL  
TRAVER STREET - PHASE IIA

SCALE: 1" = 20'  
DRAWING No. 2018024-13

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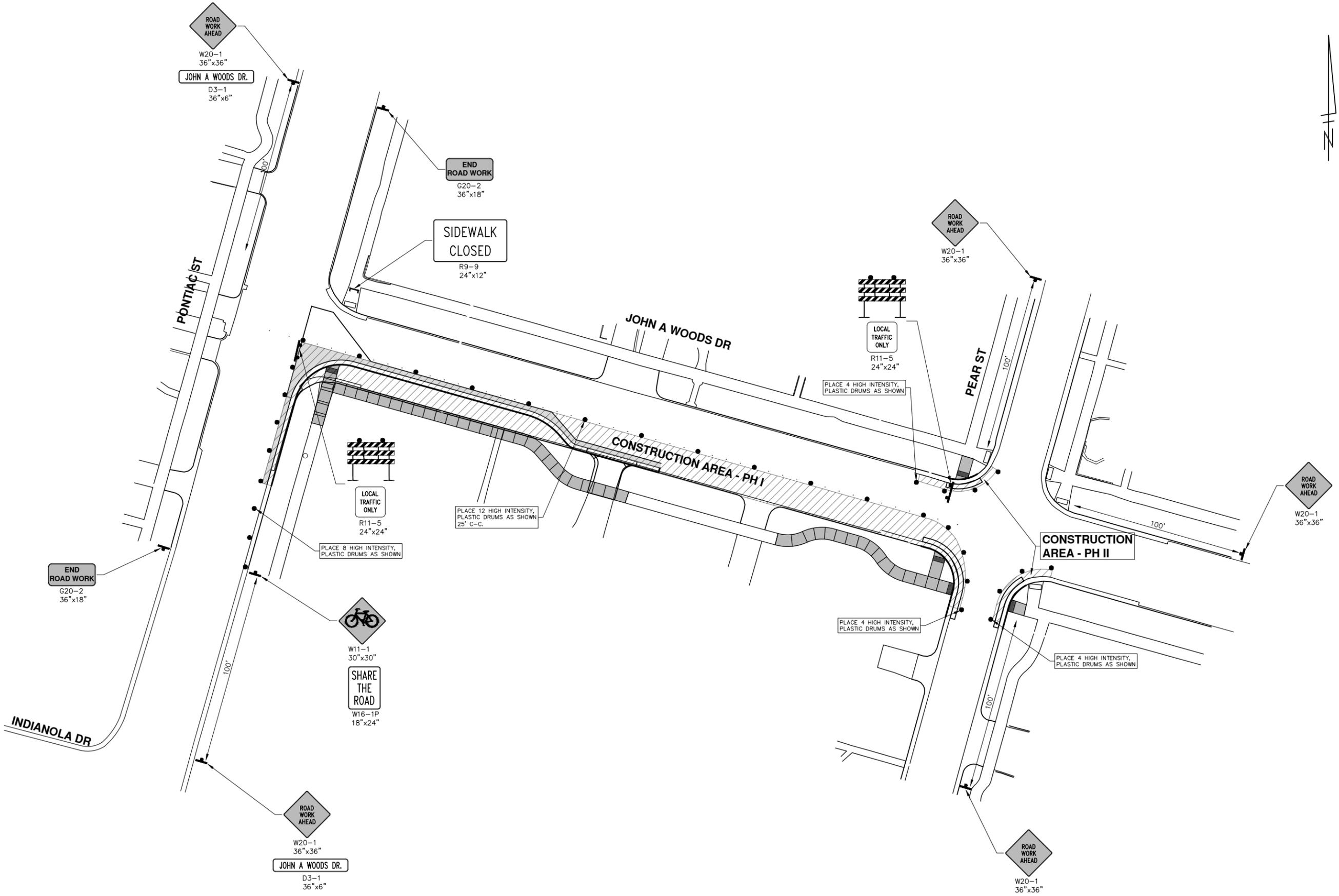
REV.	DATE	DESCRIPTION
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00	10-8-2018	MDOT GI SUBMITTAL

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NORTHSIDE STEAM SAFE ROUTES TO SCHOOL  
TRAFFIC CONTROL  
TRAVER STREET - PHASE IIB

SCALE: 1" = 20'  
DRAWING No. 2018024-14

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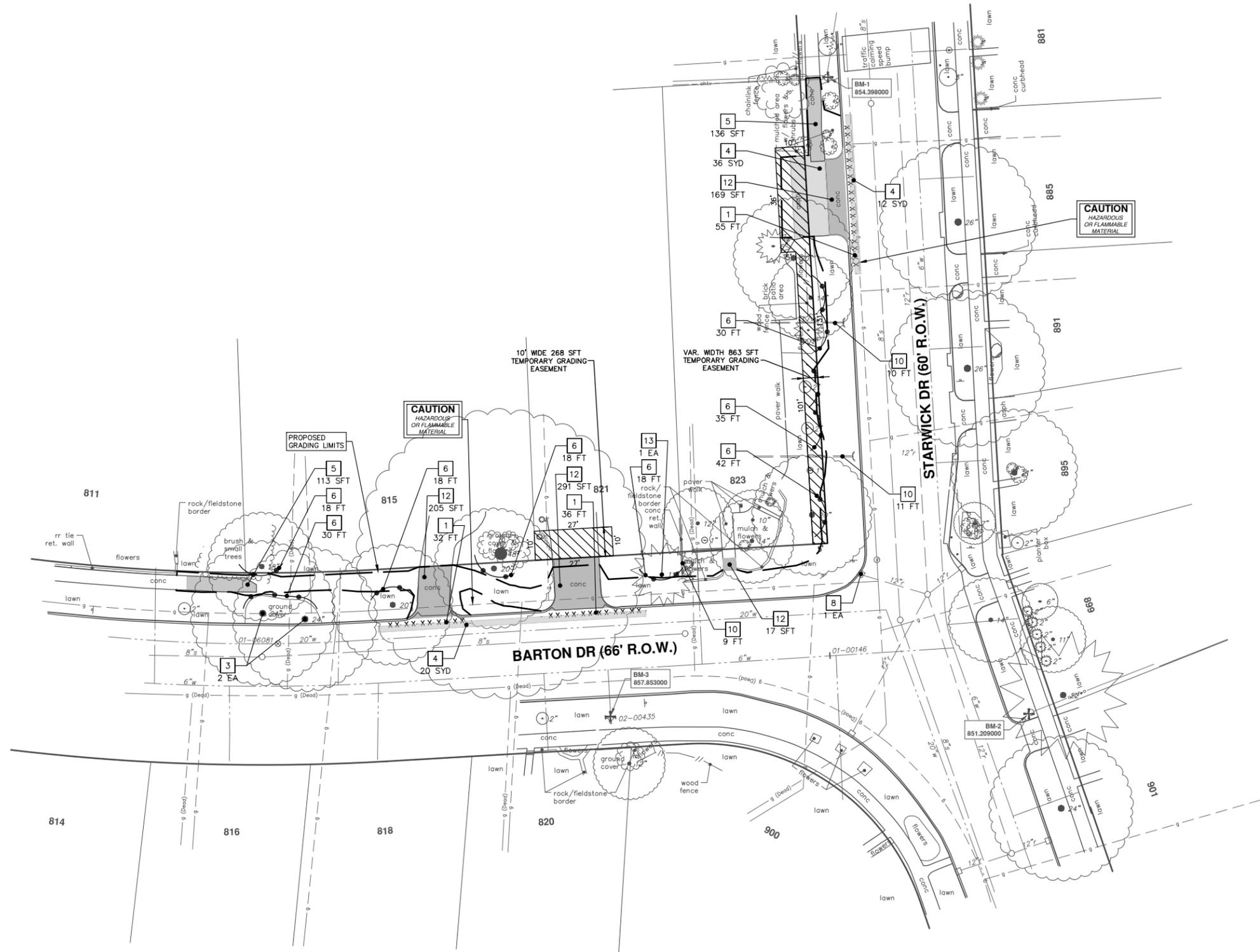
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01	3-15-2019	FINAL SUBMITTAL
00	10-8-2018	MDOT GI SUBMITTAL

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**NORTHSIDE STEAM SAFE ROUTES TO SCHOOL**  
TRAFFIC CONTROL  
JOHN A WOODS DRIVE - PHASE I & II

SCALE PLAN: 1" = 20'  
DRAWING No. 2018024-15



REMOVAL KEY	
KEY	DESCRIPTION
1	_CURB AND GUTTER, REM, MODIFIED* (FT)
2	STUMP, REM, 6 INCH TO 18 INCH (EA)
3	STUMP, REM, 19 INCH TO 36 INCH (EA)
4	HMA SURFACE, REM* (SYD)
5	_SIDEWALK, REM, MODIFIED* (SFT)
6	FENCE, PROTECTIVE (FT)
7	_CURB, REM, MODIFIED (FT)
8	_EROSION CONTROL, INLET FILTER
9	EROSION CONTROL, SILT FENCE
10	SEWER, REM, LESS THAN 24 INCH (FT)
11	DR STRUCTURE, REM (EA)
12	_DRIVEWAY APPROACH, REM, MODIFIED* (SFT)
13	TRIMMING TREE (EA)
RBO	REMOVE BY OTHERS

\*SAWCUT FULL DEPTH AT REMOVAL LIMITS



**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**NORTHSIDE STEAM SAFE ROUTES TO SCHOOL**  
 REMOVALS  
 BARTON DRIVE

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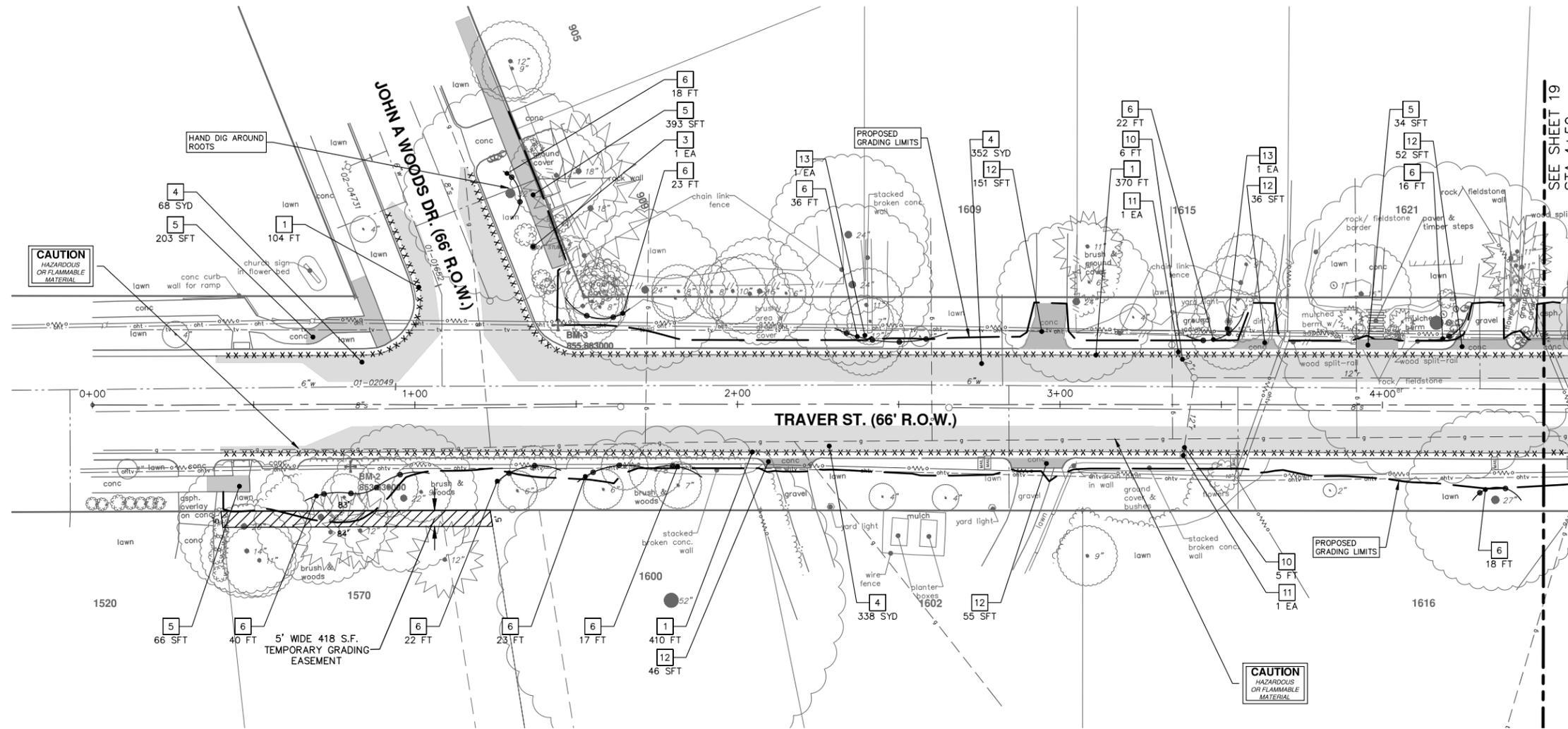
REV.	DATE	DESCRIPTION
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00	10-8-2018	MDOT GI SUBMITTAL

DATE	DRAWN	CHECKED
3-15-2019	DFCC	JKA
10-8-2018	KG,DF,CC	JKA





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SEE SHEET 19  
STA: 4+50

REMOVAL KEY	
KEY	DESCRIPTION
1	_CURB AND GUTTER, REM, MODIFIED* (FT)
2	STUMP, REM, 6 INCH TO 18 INCH (EA)
3	STUMP, REM, 19 INCH TO 36 INCH (EA)
4	HMA SURFACE, REM* (SYD)
5	_SIDEWALK, REM, MODIFIED* (SFT)
6	FENCE, PROTECTIVE (FT)
7	_CURB, REM, MODIFIED (FT)
8	_EROSION CONTROL, INLET FILTER
9	EROSION CONTROL, SILT FENCE
10	SEWER, REM, LESS THAN 24 INCH (FT)
11	DR STRUCTURE, REM (EA)
12	_DRIVEWAY APPROACH, REM, MODIFIED* (SFT)
13	TRIMMING TREE (EA)
RBO	REMOVE BY OTHERS

\*SAWCUT FULL DEPTH AT  
REMOVAL LIMITS

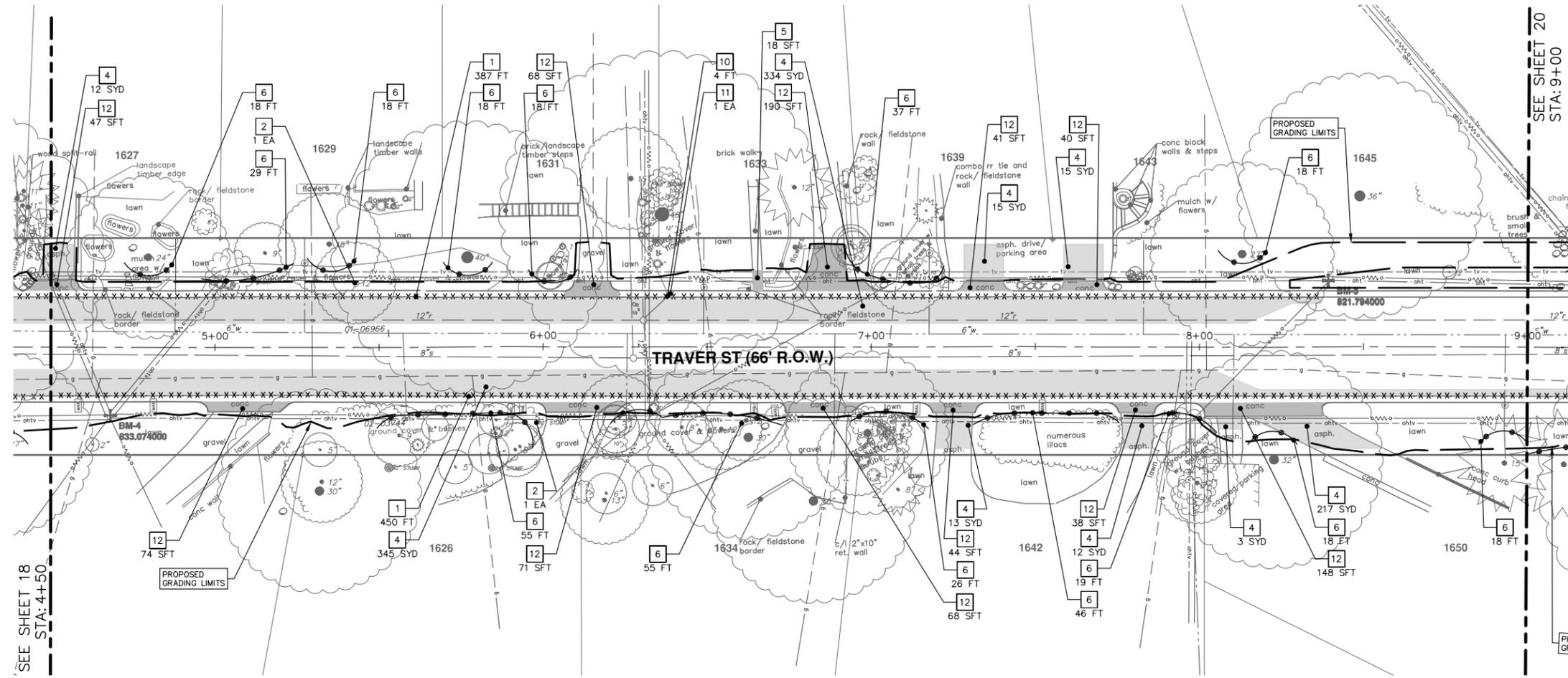


REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	FINAL SUBMITTAL	3-15-2019	DF,CC	JKA
00	MDOT GI SUBMITTAL	10-8-2018	KB,DF,CC	JKA

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
NORTHSIDE STEAM SAFE ROUTES TO SCHOOL  
REMOVALS  
TRAVER STREET

SCALE PLAN: 1" = 20'  
DRAWING No. 2018024-18



SEE SHEET 18  
STA: 4+50

SEE SHEET 20  
STA: 9+00

REMOVAL KEY	
KEY	DESCRIPTION
1	_CURB AND GUTTER, REM, MODIFIED* (FT)
2	STUMP, REM, 6 INCH TO 18 INCH (EA)
3	STUMP, REM, 19 INCH TO 36 INCH (EA)
4	HMA SURFACE, REM* (SYD)
5	_SIDEWALK, REM, MODIFIED* (SFT)
6	FENCE, PROTECTIVE (FT)
7	_CURB, REM, MODIFIED (FT)
8	_EROSION CONTROL, INLET FILTER
9	EROSION CONTROL, SILT FENCE
10	SEWER, REM, LESS THAN 24 INCH (FT)
11	DR STRUCTURE, REM (EA)
12	_DRIVEWAY APPROACH, REM, MODIFIED* (SFT)
13	TRIMMING TREE (EA)
RBO	REMOVE BY OTHERS

\*SAWCUT FULL DEPTH AT REMOVAL LIMITS

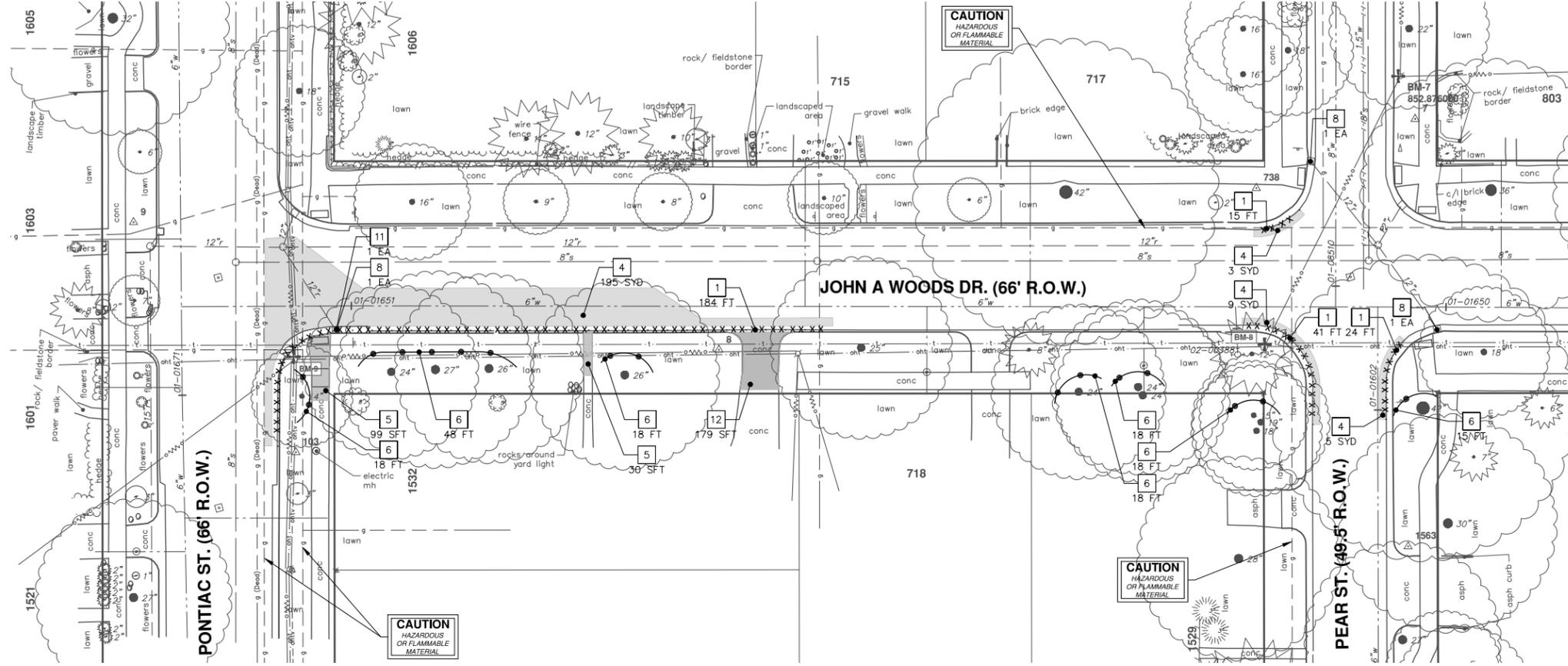


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NORTHSIDE STEAM SAFE ROUTES TO SCHOOL  
REMOVALS  
TRAVER STREET

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	FINAL SUBMITTAL	3-15-2019	DF,CC	JKA
00	MDOT GI SUBMITTAL	10-8-2018	KB,DF,CC	JKA





REMOVAL KEY	
KEY	DESCRIPTION
1	_CURB AND GUTTER, REM, MODIFIED* (FT)
2	STUMP, REM, 6 INCH TO 18 INCH (EA)
3	STUMP, REM, 19 INCH TO 36 INCH (EA)
4	HMA SURFACE, REM* (SYD)
5	_SIDEWALK, REM, MODIFIED* (SFT)
6	FENCE, PROTECTIVE (FT)
7	_CURB, REM, MODIFIED (FT)
8	_EROSION CONTROL, INLET FILTER
9	EROSION CONTROL, SILT FENCE
10	SEWER, REM, LESS THAN 24 INCH (FT)
11	DR STRUCTURE, REM (EA)
12	_DRIVEWAY APPROACH, REM, MODIFIED* (SFT)
13	TRIMMING TREE (EA)
RBO	REMOVE BY OTHERS

\*SAWCUT FULL DEPTH AT REMOVAL LIMITS

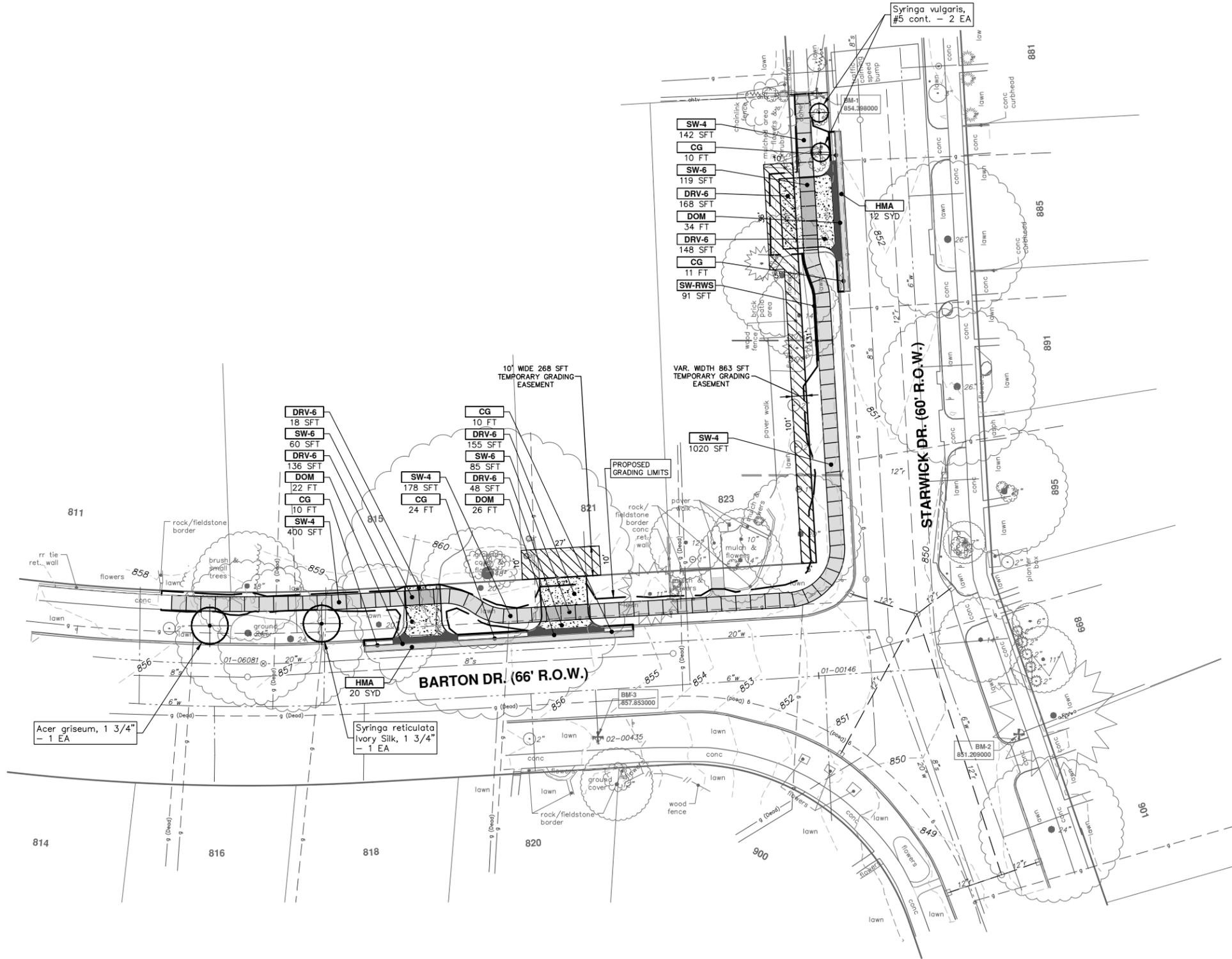


**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**NORTHSIDE STEAM SAFE ROUTES TO SCHOOL**  
 REMOVALS  
 JOHN A. WOODS DRIVE

SCALE PLAN: 1" = 20'  
 DRAWING No. 2018024-21

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

01	FINAL SUBMITTAL	3-15-2019	DF,CC	JKA	CHECKED
00	MDOT GI SUBMITTAL	10-8-2018	KB,DF,CC	JKA	DRAWN
			DATE		
	DESCRIPTION				



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	HAND PATCHING
DRV-6	CONCRETE DRIVE APPROACH, NONREINFORCED, P-NC, 6 INCH (SFT)
DOM	DRIVEWAY OPENING, CONC. DETAIL M, P-NC (FT)
CG	CURB AND GUTTER, CONC. DET F4, SPECIAL (FT)
CRO	CURB RAMP OPENING, CONC. (FT)
SW-RWS	INTEGRAL SIDEWALK RETAINING WALL, 6" TO 18" (SFT)
SW-RWT	INTEGRAL SIDEWALK RETAINING WALL, 19" TO 36" (SFT)
DWS	DETECTABLE WARNING TILES (SFT)
SWR-6	SIDEWALK RAMP, CONCRETE, 6 INCH, P-NC, ADA, MODIFIED (SFT)
SW-4	SIDEWALK, CONCRETE, 4 INCH, SPECIAL (SFT)
SW-6	SIDEWALK, CONCRETE, 6 INCH, SPECIAL (SFT)



REV.	DATE	DESCRIPTION
01	3-15-2019	FINAL SUBMITTAL
00	10-8-2018	MDOT GI SUBMITTAL

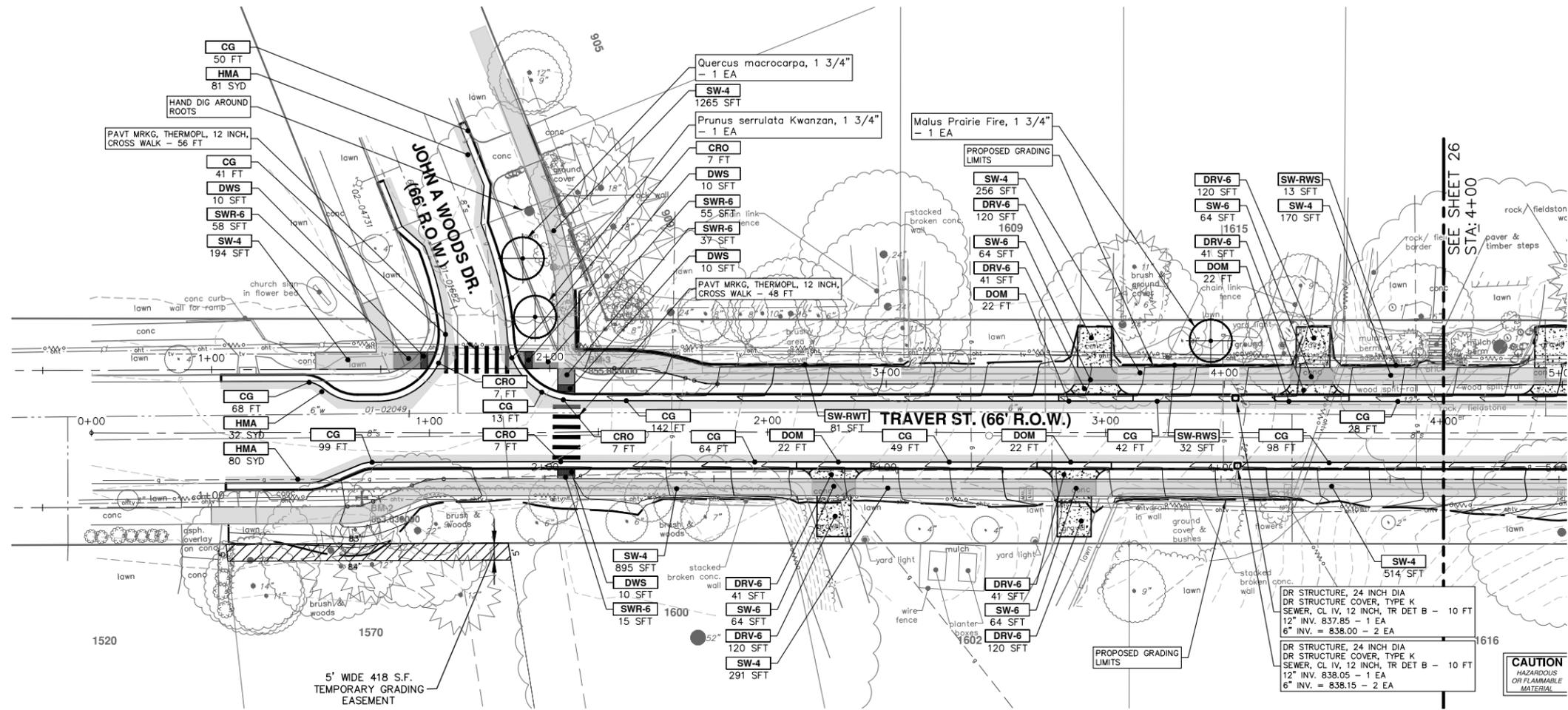
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PROPOSED SIDEWALK  
BARTON DRIVE

SCALE PLAN: 1" = 20'  
DRAWING No. 2018024-22



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CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	HAND PATCHING
DRV-6	CONCRETE DRIVE APPROACH, NONREINFORCED, P-NC, 6 INCH (SFT)
DOM	DRIVEWAY OPENING, CONC. DETAIL M, P-NC (FT)
CG	CURB AND GUTTER, CONC. DET F4, SPECIAL (FT)
CRO	CURB RAMP OPENING, CONC. (FT)
SW-RWS	INTEGRAL SIDEWALK RETAINING WALL, 6" TO 18" (SFT)
SW-RWT	INTEGRAL SIDEWALK RETAINING WALL, 19" TO 36" (SFT)
DWS	DETECTABLE WARNING TILES (SFT)
SWR-6	SIDEWALK RAMP, CONCRETE, 6 INCH, P-NC, ADA, MODIFIED (SFT)
SW-4	SIDEWALK, CONCRETE, 4 INCH, SPECIAL (SFT)
SW-6	SIDEWALK, CONCRETE, 6 INCH, SPECIAL (SFT)

DR STRUCTURE, 24 INCH DIA  
DR STRUCTURE COVER, TYPE K  
SEWER, CL IV, 12 INCH, TR DET B - 10 FT  
12" INV. = 837.85 - 1 EA  
6" INV. = 838.00 - 2 EA

DR STRUCTURE, 24 INCH DIA  
DR STRUCTURE COVER, TYPE K  
SEWER, CL IV, 12 INCH, TR DET B - 10 FT  
12" INV. = 838.05 - 1 EA  
6" INV. = 838.15 - 2 EA

**CAUTION**  
HAZARDOUS  
OR FLAMMABLE  
MATERIAL

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**NORTHSIDE STEAM SAFE ROUTES TO SCHOOL**

PROPOSED SIDEWALK

TRAVER STREET

SHEET No. **24 OF 34**

SCALE PLAN: 1" = 20'

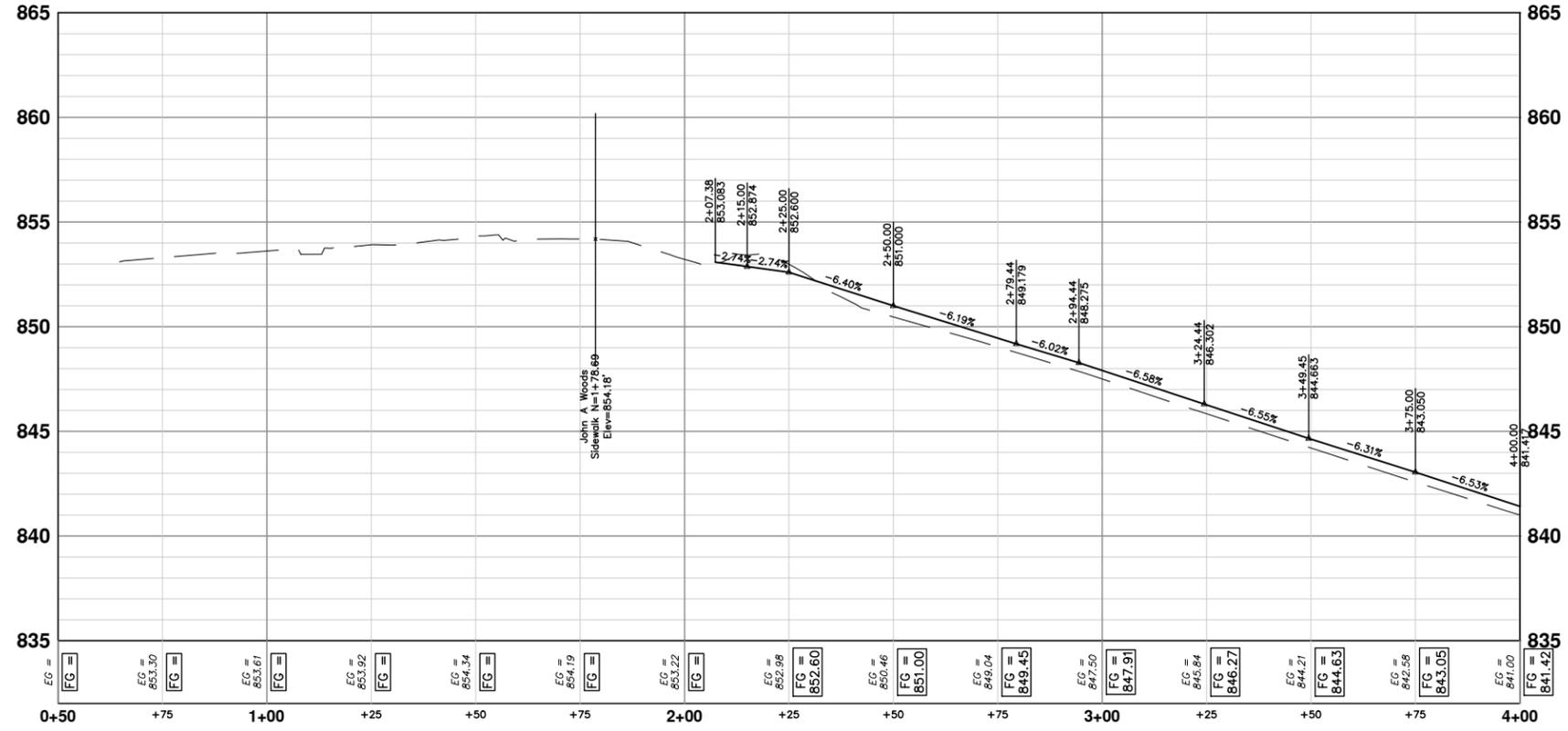
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REV.	DESCRIPTION	DATE			

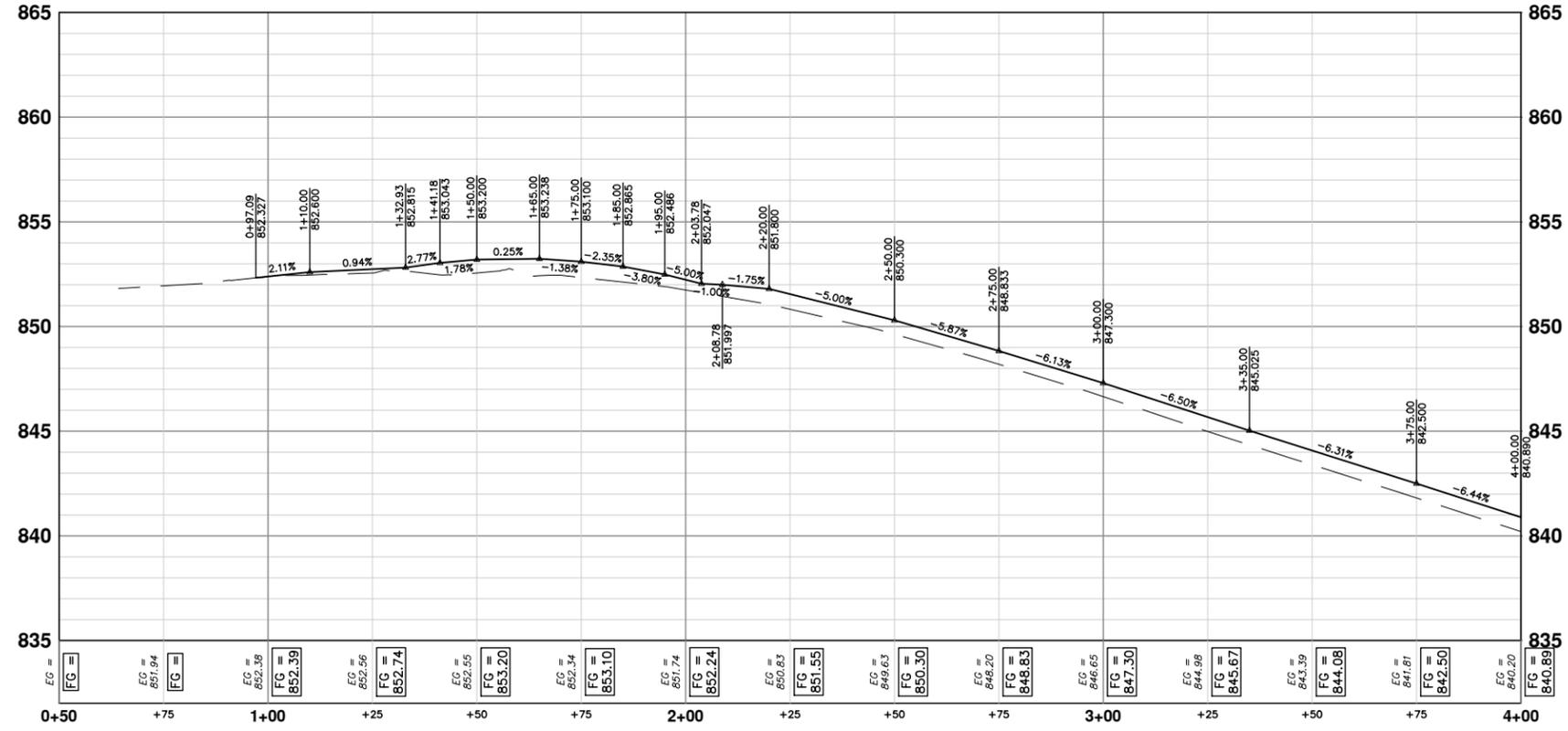
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TRAVER STREET - NORTH SIDEWALK



TRAVER STREET - SOUTH SIDEWALK



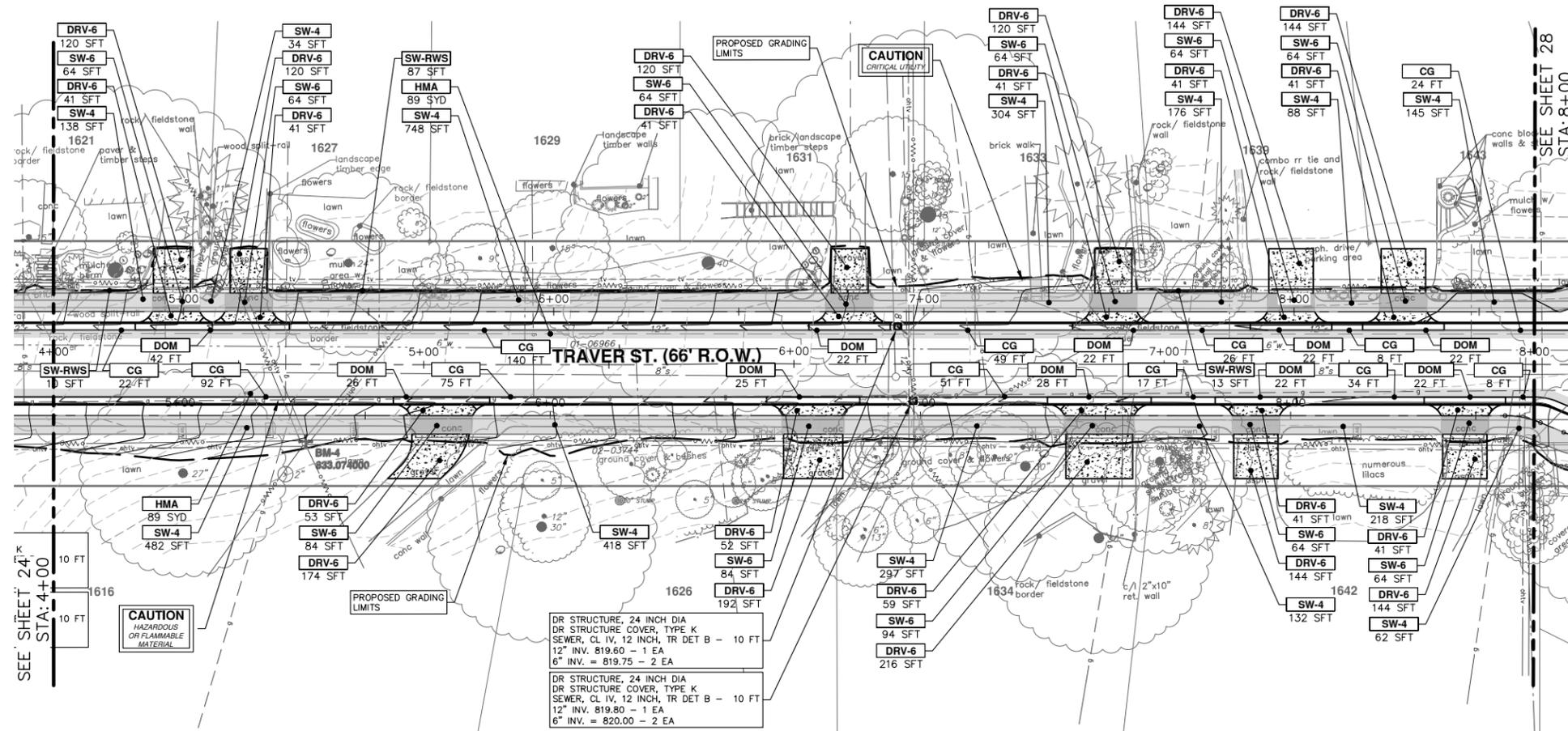
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NORTHSIDE STEAM SAFE ROUTES TO SCHOOL  
PROPOSED SIDEWALK  
TRAVER STREET PROFILES

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'  
DRAWING No.  
2018024-25



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	HAND PATCHING
DRV-6	CONCRETE DRIVE APPROACH, NONREINFORCED, P-NC, 6 INCH (SFT)
DOM	DRIVEWAY OPENING, CONC, DETAIL M, P-NC (FT)
CG	CURB AND GUTTER, CONC, DET F4, SPECIAL (FT)
CRO	CURB RAMP OPENING, CONC. (FT)
SW-RWS	INTEGRAL SIDEWALK RETAINING WALL, 6" TO 18" (SFT)
SW-RWT	INTEGRAL SIDEWALK RETAINING WALL, 19" TO 36" (SFT)
DWS	DETECTABLE WARNING TILES (SFT)
SWR-6	SIDEWALK RAMP, CONCRETE, 6 INCH, P-NC, ADA, MODIFIED (SFT)
SW-4	SIDEWALK, CONCRETE, 4 INCH, SPECIAL (SFT)
SW-6	SIDEWALK, CONCRETE, 6 INCH, SPECIAL (SFT)

SEE SHEET 24, STA: 4+00

SEE SHEET 28 STA: 8+00

CAUTION HAZARDOUS OR FLAMMABLE MATERIAL

DR STRUCTURE, 24 INCH DIA  
DR STRUCTURE COVER, TYPE K  
SEWER, CL IV, 12 INCH, TR DET B - 10 FT  
12" INV. = 819.60 - 1 EA  
6" INV. = 819.75 - 2 EA

DR STRUCTURE, 24 INCH DIA  
DR STRUCTURE COVER, TYPE K  
SEWER, CL IV, 12 INCH, TR DET B - 10 FT  
12" INV. = 819.80 - 1 EA  
6" INV. = 820.00 - 2 EA

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**NORTHSIDE STEAM SAFE ROUTES TO SCHOOL**

PROPOSED SIDEWALK

TRAVER STREET

SHEET No. **26 OF 34**

SCALE PLAN: 1" = 20'

DRAWING No. **2018024-26**

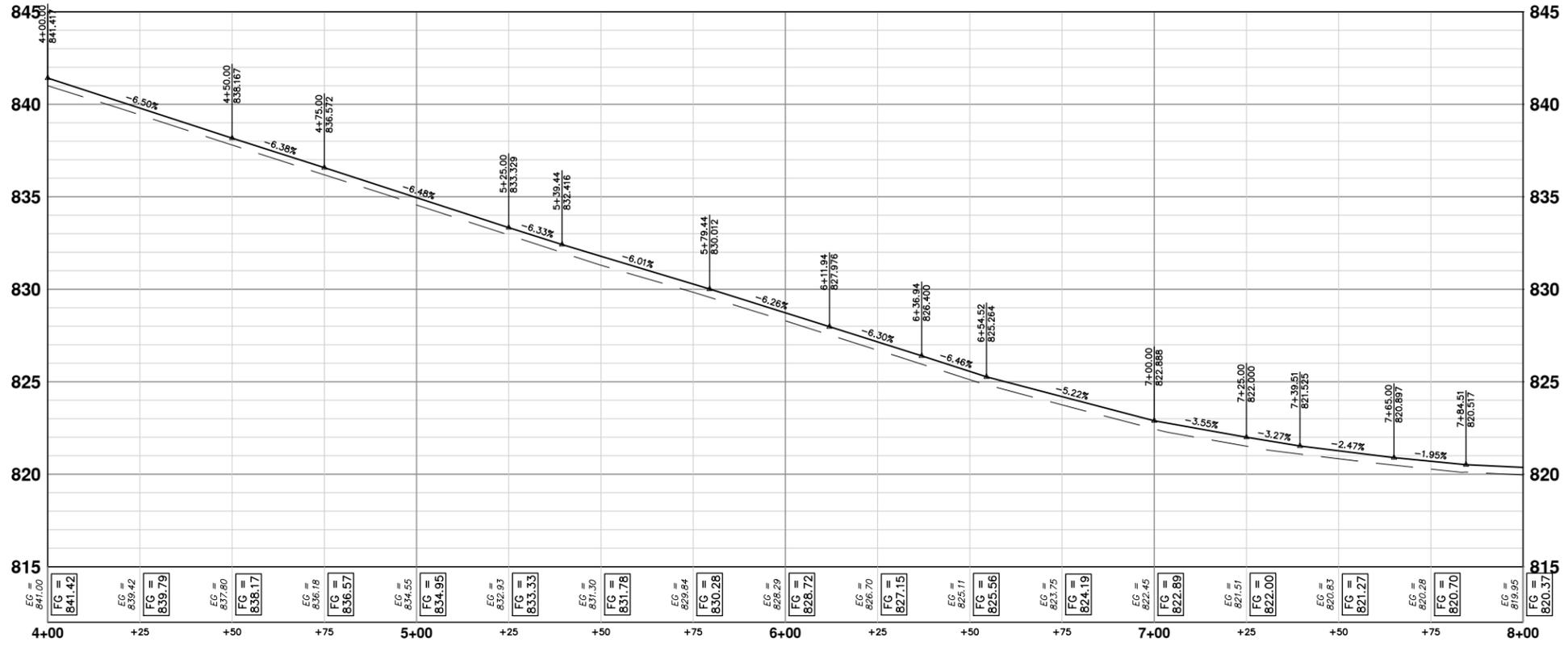
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00	MDOT GI SUBMITTAL	10-8-2018	KB,DF,CC	JKA	DRAWN
	REV.	DATE			

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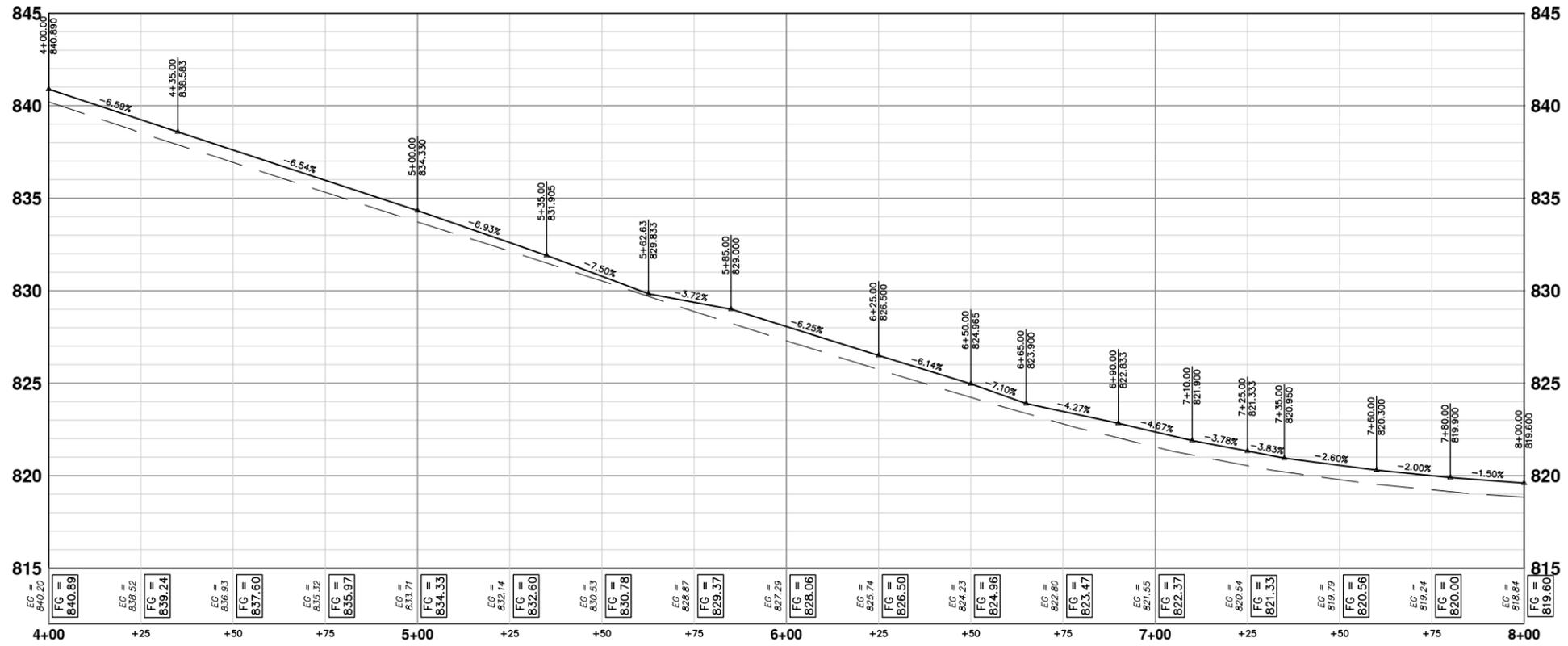
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TRAVER STREET - NORTH SIDEWALK



TRAVER STREET - SOUTH SIDEWALK



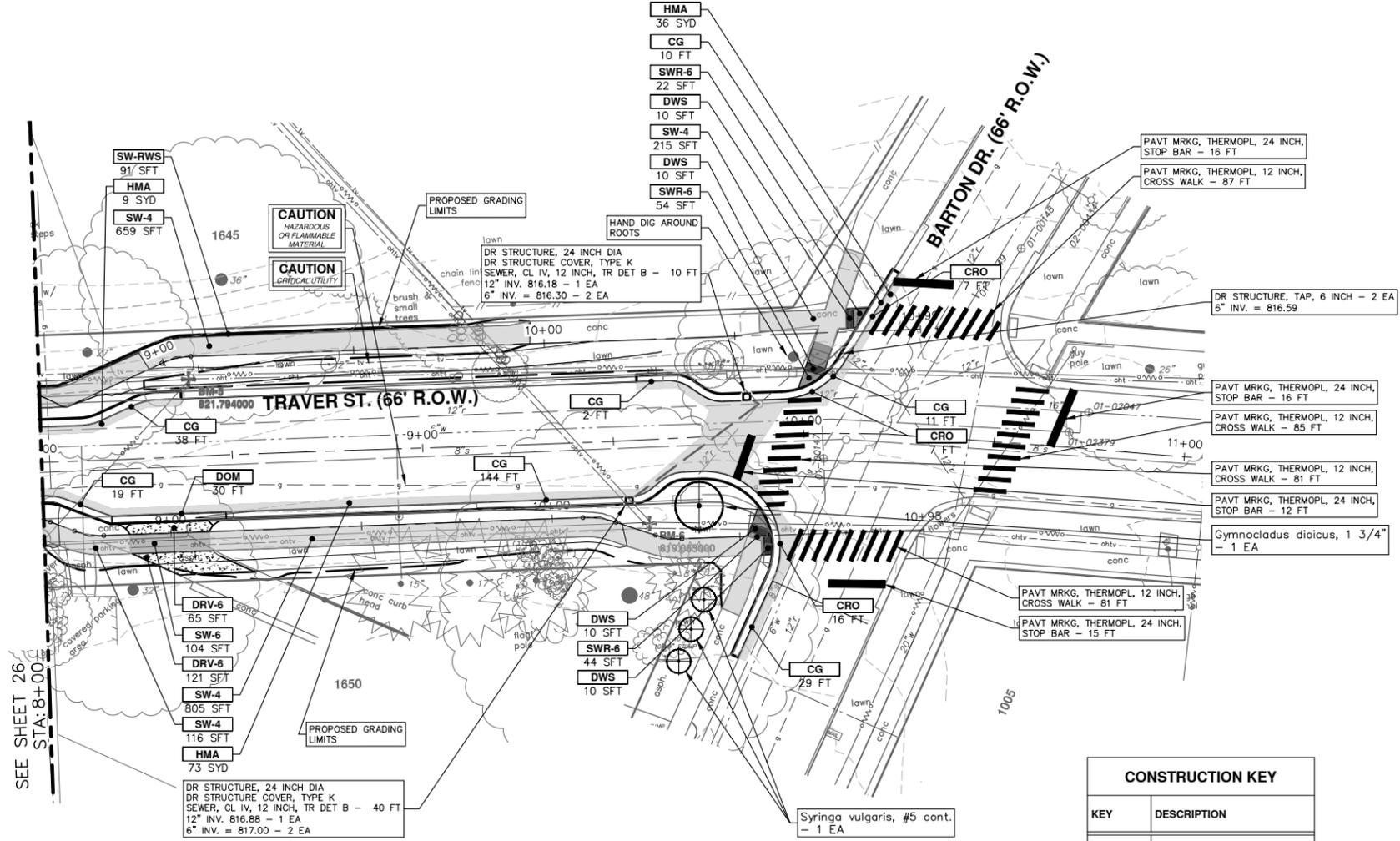
REV.	DATE	DESCRIPTION
01	3-15-2019	FINAL SUBMITTAL
00	10-8-2018	MDOT GI SUBMITTAL

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
NORTHSIDE STEAM SAFE ROUTES TO SCHOOL  
PROPOSED SIDEWALK  
TRAVER STREET PROFILES

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'  
DRAWING No. 2018024-27



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	HAND PATCHING
DRV-6	CONCRETE DRIVE APPROACH, NONREINFORCED, P-NC, 6 INCH (SFT)
DOM	DRIVEWAY OPENING, CONC, DETAIL M, P-NC (FT)
CG	CURB AND GUTTER, CONC, DET F4, SPECIAL (FT)
CRO	CURB RAMP OPENING, CONC. (FT)
SW-RWS	INTEGRAL SIDEWALK RETAINING WALL, 6" TO 18" (SFT)
SW-RWT	INTEGRAL SIDEWALK RETAINING WALL, 19" TO 36" (SFT)
DWS	DETECTABLE WARNING TILES (SFT)
SWR-6	SIDEWALK RAMP, CONCRETE, 6 INCH, P-NC, ADA, MODIFIED (SFT)
SW-4	SIDEWALK, CONCRETE, 4 INCH, SPECIAL (SFT)
SW-6	SIDEWALK, CONCRETE, 6 INCH, SPECIAL (SFT)

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**NORTHSIDE STEAM SAFE ROUTES TO SCHOOL**

PROPOSED SIDEWALK

TRAVER STREET

SCALE PLAN: 1" = 20'

DRAWING No. 2018024-28

SHEET No. 28 OF 34

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

01	FINAL SUBMITTAL	3-15-2019	DF,CC	JKA	CHECKED
00	MDOT GI SUBMITTAL	10-8-2018	KB,DF,CC	JKA	DRAWN

DATE: 10-8-2018

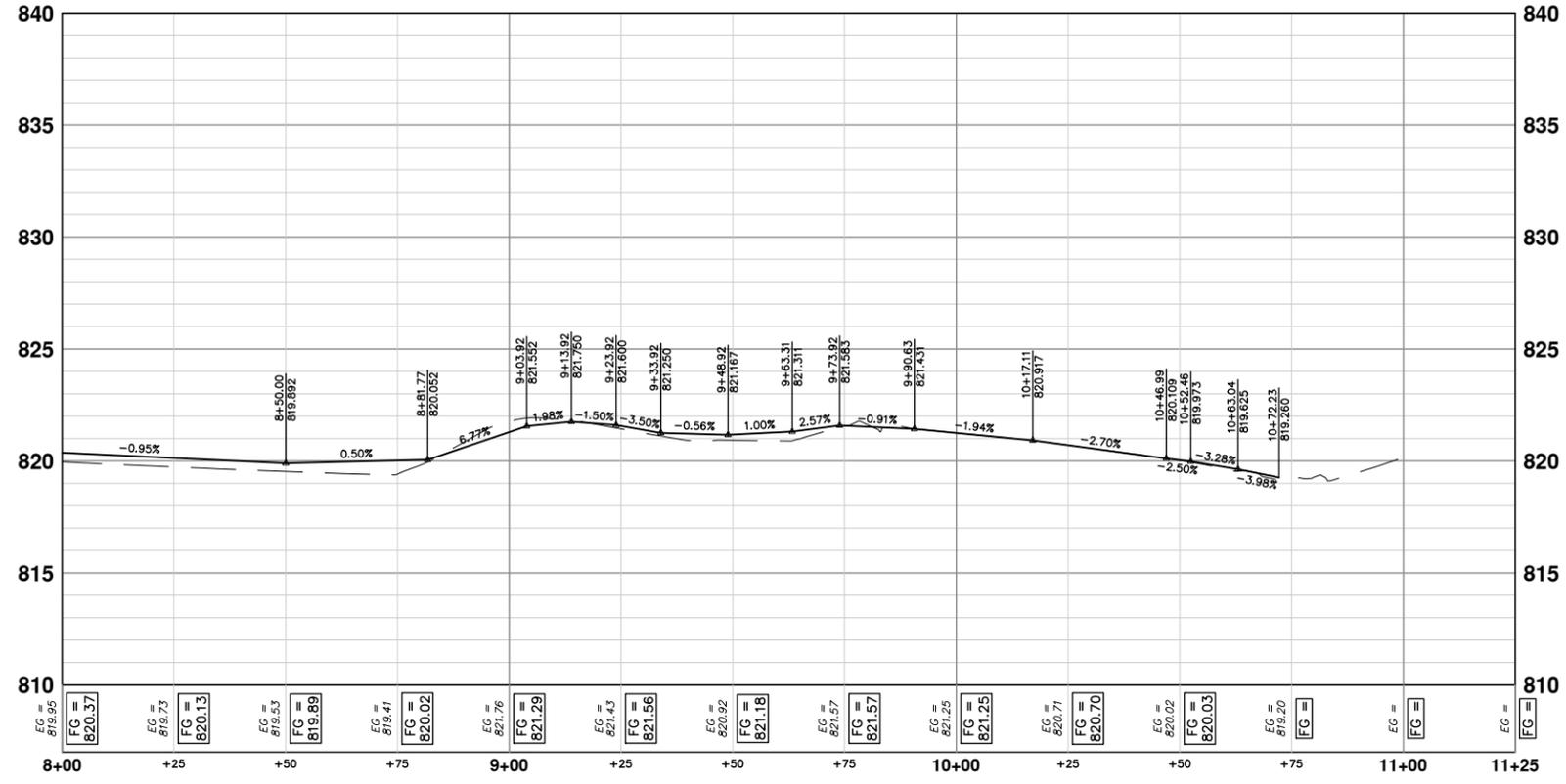
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REV. 00

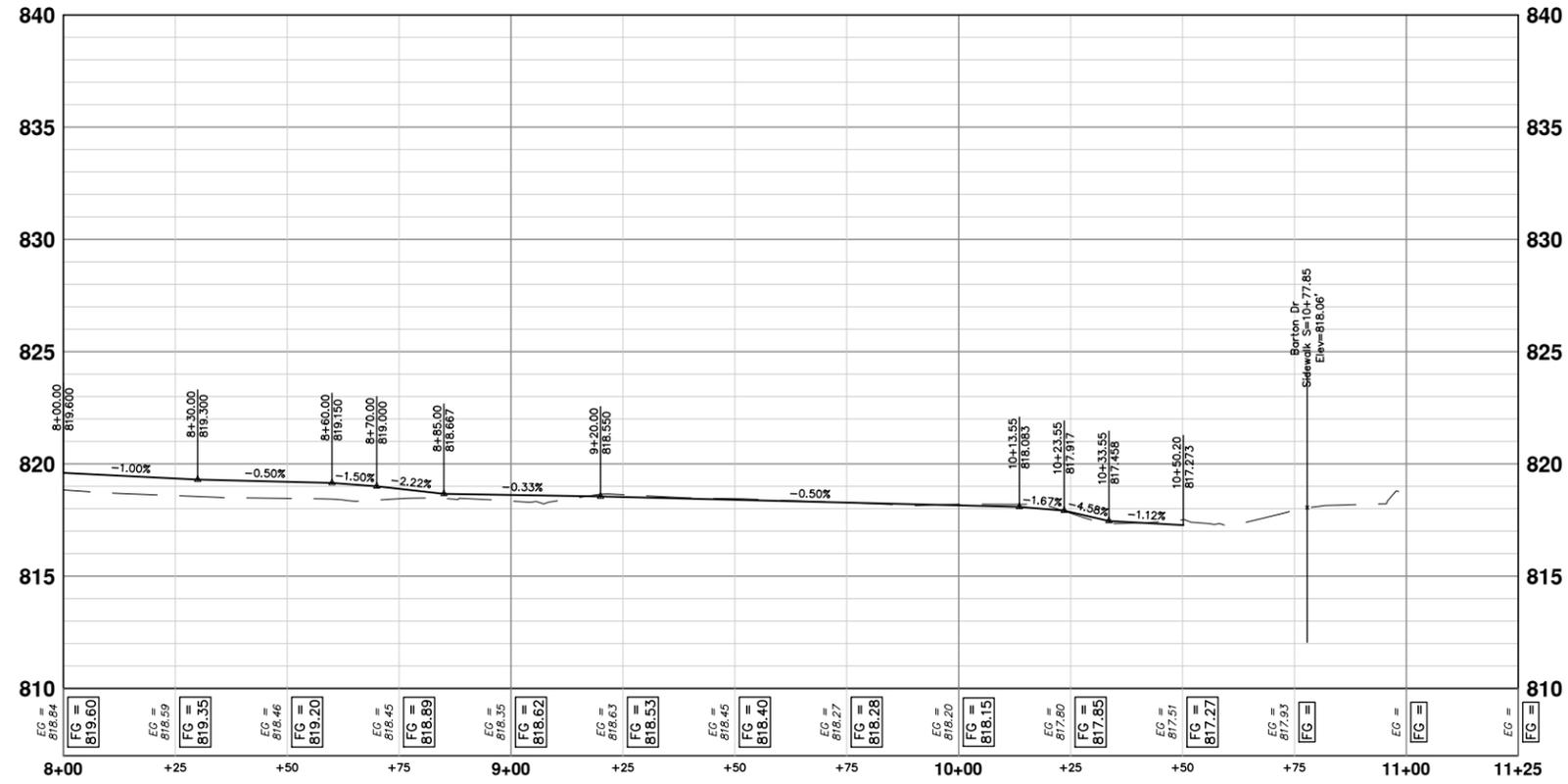
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TRAVER STREET - NORTH SIDEWALK



TRAVER STREET - SOUTH SIDEWALK



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	FINAL SUBMITTAL	3-15-2019	DF,CC	JKA
00	MDOT GI SUBMITTAL	10-8-2018	KG,DF,CC	JKA

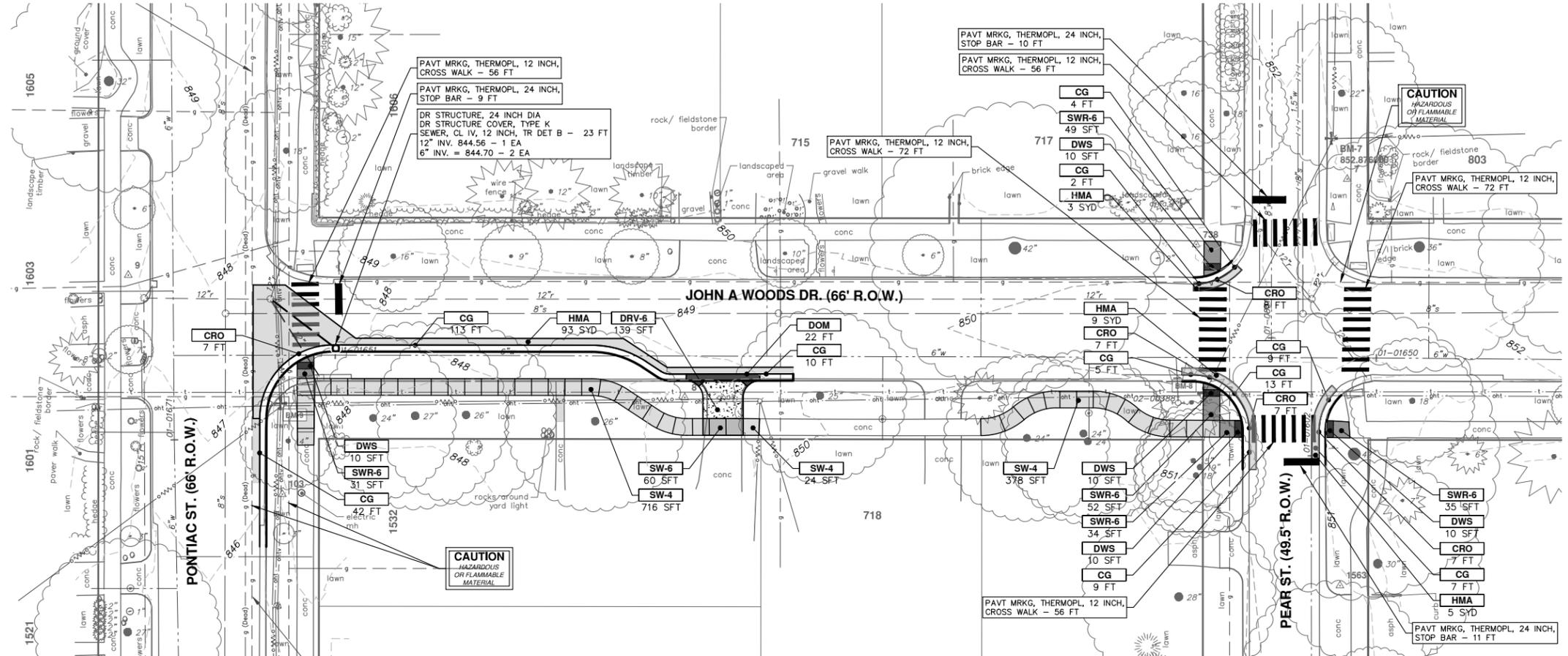
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
NORTHSIDE STEAM SAFE ROUTES TO SCHOOL  
PROPOSED SIDEWALK  
TRAVER STREET PROFILES

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

DRAWING No. 2018024-29

SHEET No. 29 OF 34



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	HAND PATCHING
DRV-6	CONCRETE DRIVE APPROACH, NONREINFORCED, P-NC, 6 INCH (SFT)
DOM	DRIVEWAY OPENING, CONC, DETAIL M, P-NC (FT)
CG	CURB AND GUTTER, CONC, DET F4, SPECIAL (FT)
CRO	CURB RAMP OPENING, CONC. (FT)
SW-RWS	INTEGRAL SIDEWALK RETAINING WALL, 6" TO 18" (SFT)
SW-RWT	INTEGRAL SIDEWALK RETAINING WALL, 19" TO 36" (SFT)
DWS	DETECTABLE WARNING TILES (SFT)
SWR-6	SIDEWALK RAMP, CONCRETE, 6 INCH, P-NC, ADA, MODIFIED (SFT)
SW-4	SIDEWALK, CONCRETE, 4 INCH, SPECIAL (SFT)
SW-6	SIDEWALK, CONCRETE, 6 INCH, SPECIAL (SFT)

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**NORTHSIDE STEAM SAFE ROUTES TO SCHOOL**

PROPOSED SIDEWALK

JOHN A WOODS DRIVE

SCALE PLAN: 1" = 20'

DRAWING No. 2018024-30

SHEET No. 30 OF 34

**CITY OF ANN ARBOR PUBLIC SERVICES**  
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DATE: 10-8-2018  
DRAWN: JKA  
CHECKED: JKA

REV. DESCRIPTION

01 FINAL SUBMITTAL  
00 MDOT GI SUBMITTAL

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R:\2018024 Northside STEAM SRTS\Plan Production\2018024 Barton IG.dwg Dwg Created: 19-Feb-19 - \_a2 standard bw.stb - Plot Date: 15-Mar-19



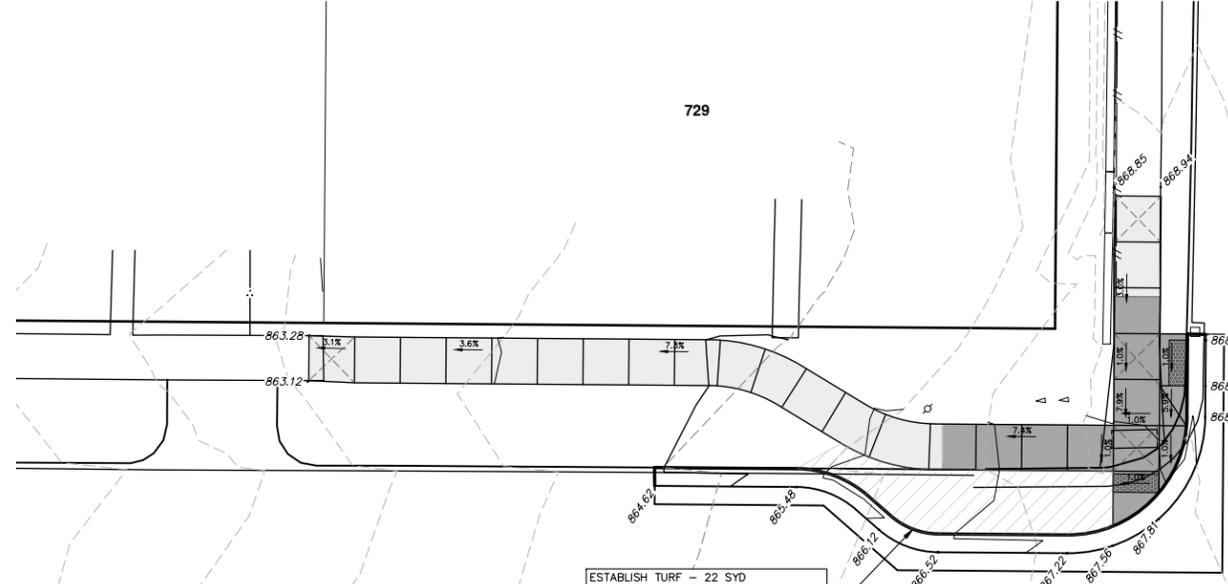
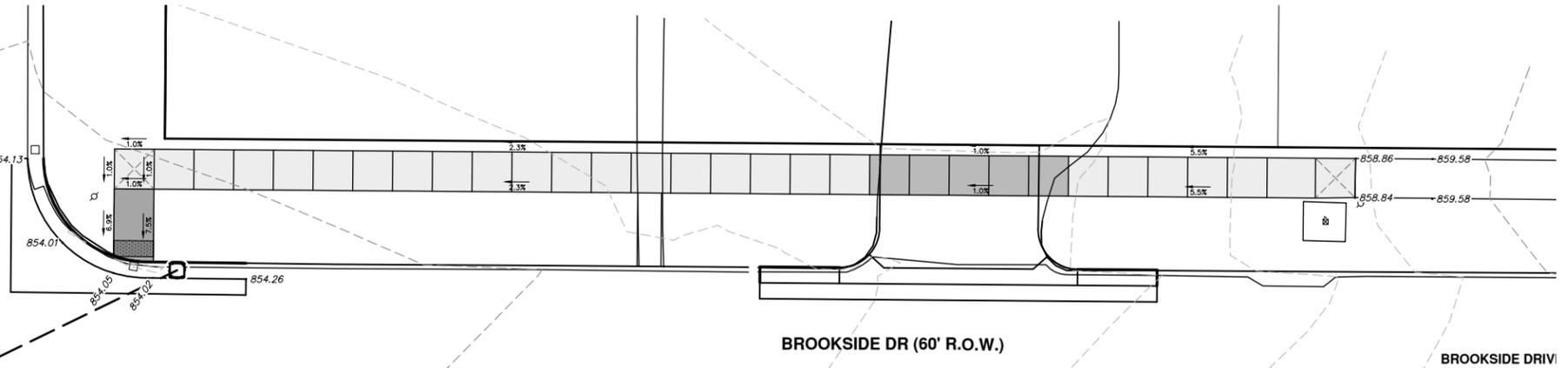
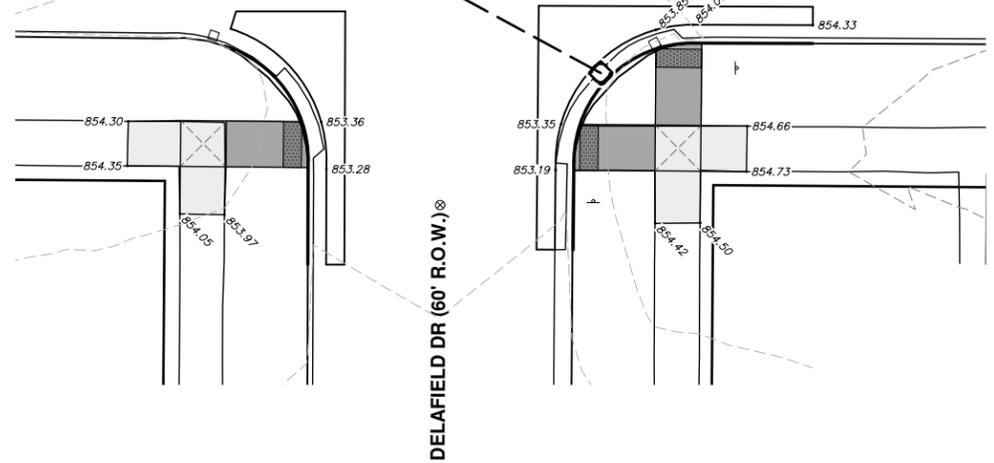
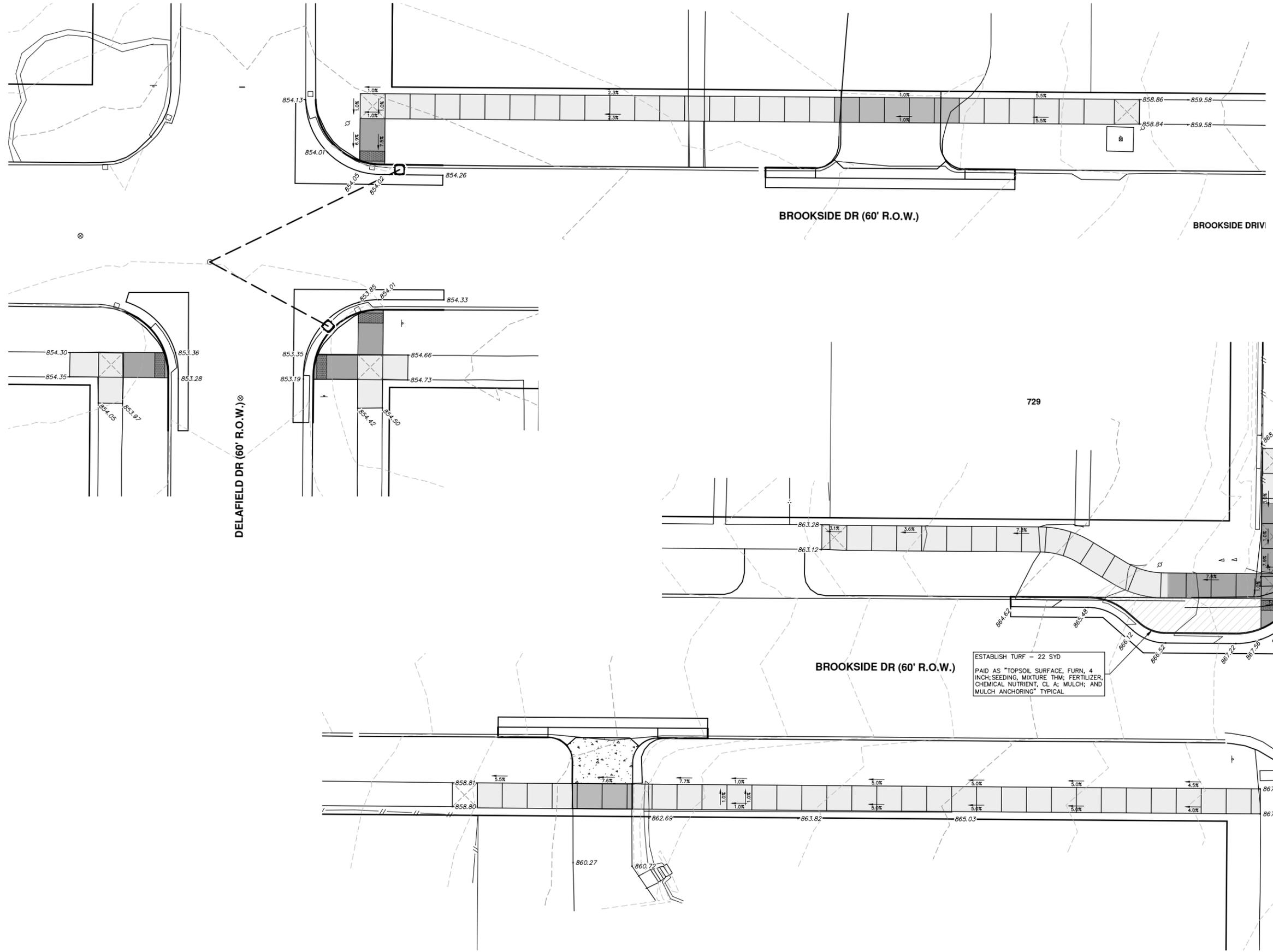
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REV.	DESCRIPTION
01	FINAL SUBMITTAL
00	MDOT GI SUBMITTAL

DATE	DRAWN	CHECKED
10-8-2018	KG,DF,CC	JKA
3-15-2019	DF,CC	JKA



R:\2018024 Northside STEAM SRTS\Plan Production\2018024 Brookside I.G.dwg Dwg Created: 20-Feb-19 -- \_a2 standard bw.stb -- Plot Date: 15-Mar-19



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**NORTHSIDE STEAM SAFE ROUTES TO SCHOOL**  
 INTERSECTION GRADES  
 BROOKSIDE DRIVE

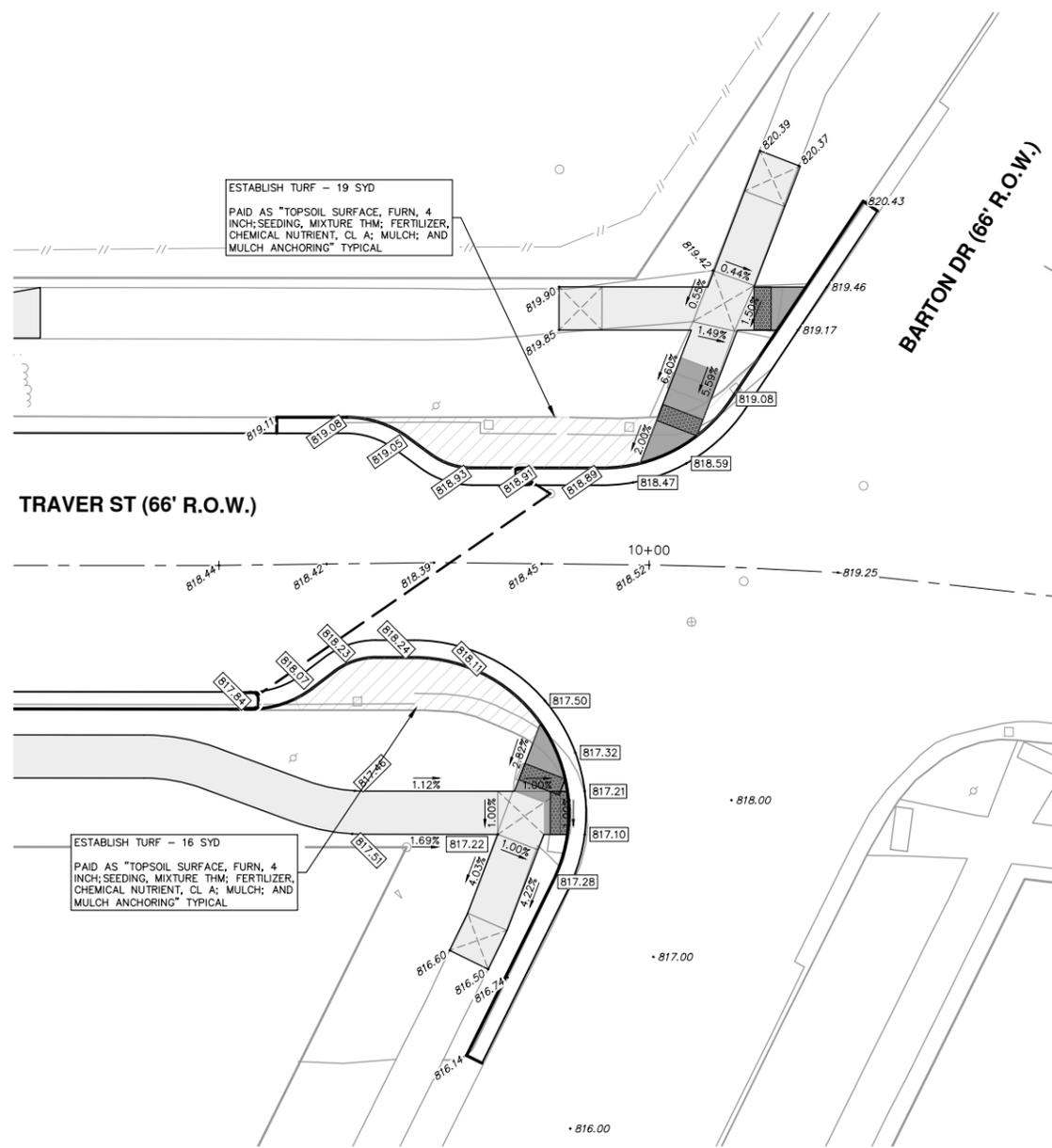
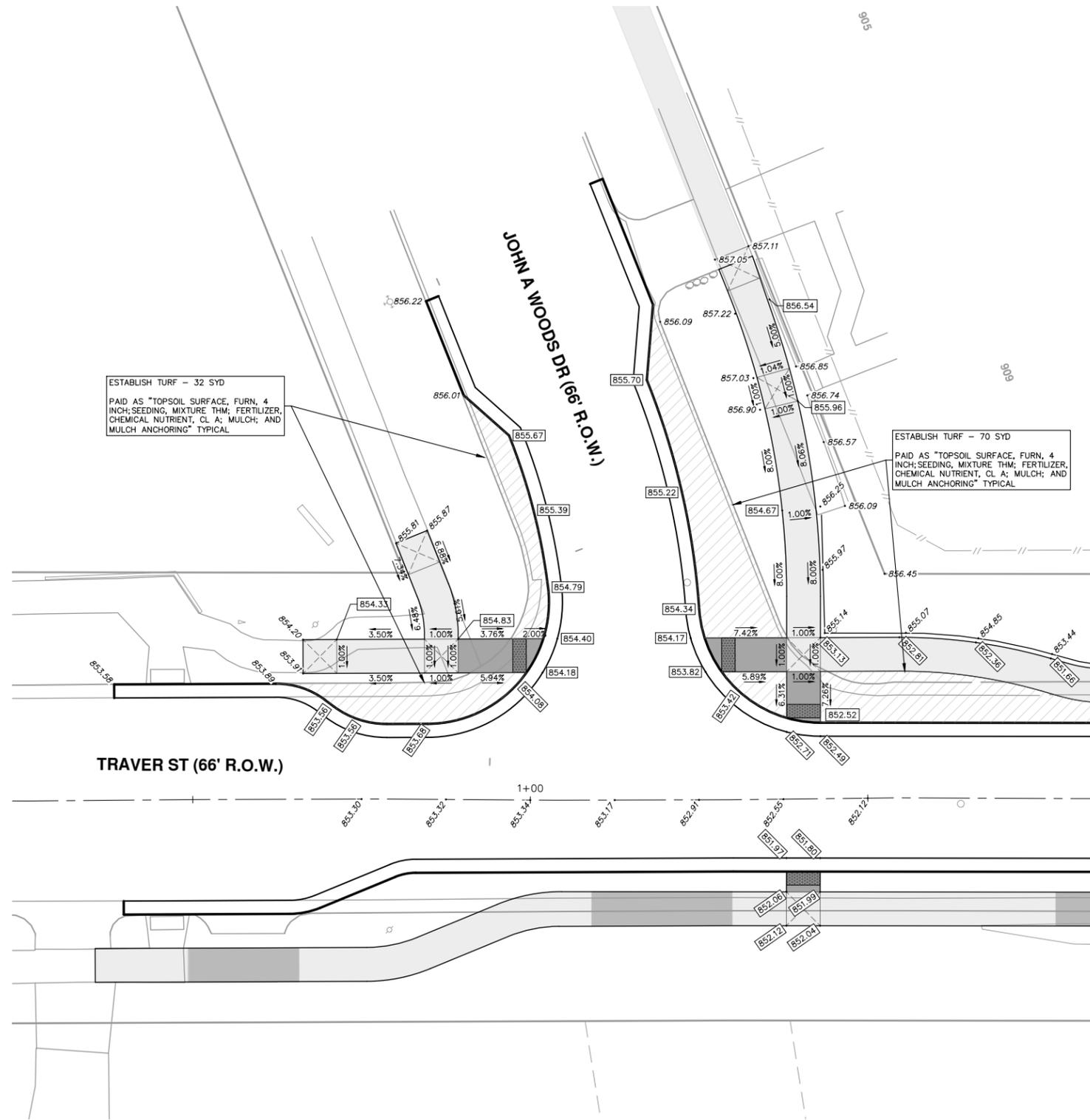
SCALE PLAN: 1" = 10'  
 DRAWING No. 2018024-32

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

REV.	DATE	DESCRIPTION
01	3-15-2019	FINAL SUBMITTAL
00	10-8-2018	MDOT GI SUBMITTAL

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R:\2018024 Northside STEAM SRTS\Plan Production\2018024 Traver IG.dwg Dwg Created: 20-Feb-19 --\_a2\_standard bw.stb -- Plot Date: 15-Mar-19



REV.	DATE	DRAWN	CHECKED	DESCRIPTION
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00	10-8-2018	KB.DF.CC	JKA	MDOT GI SUBMITTAL

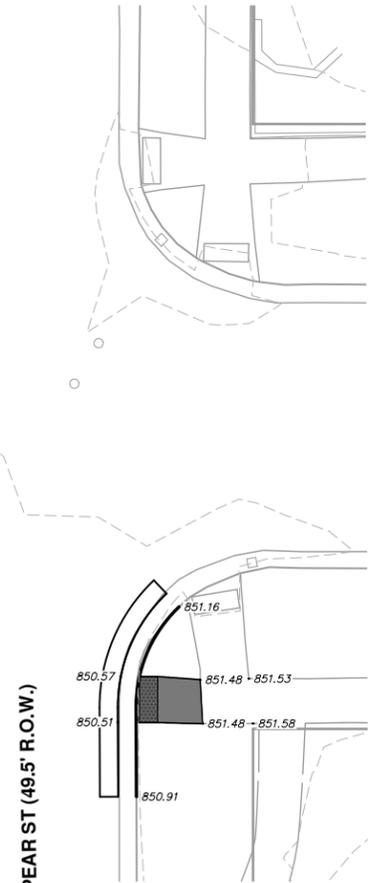
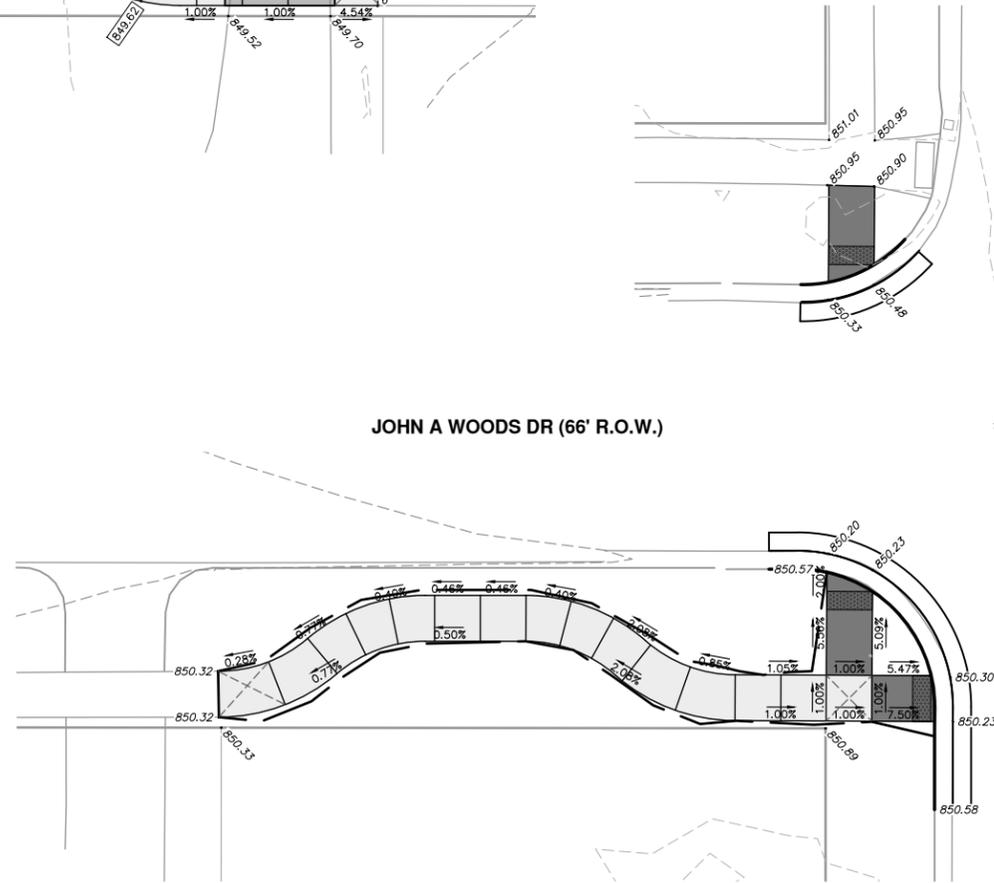
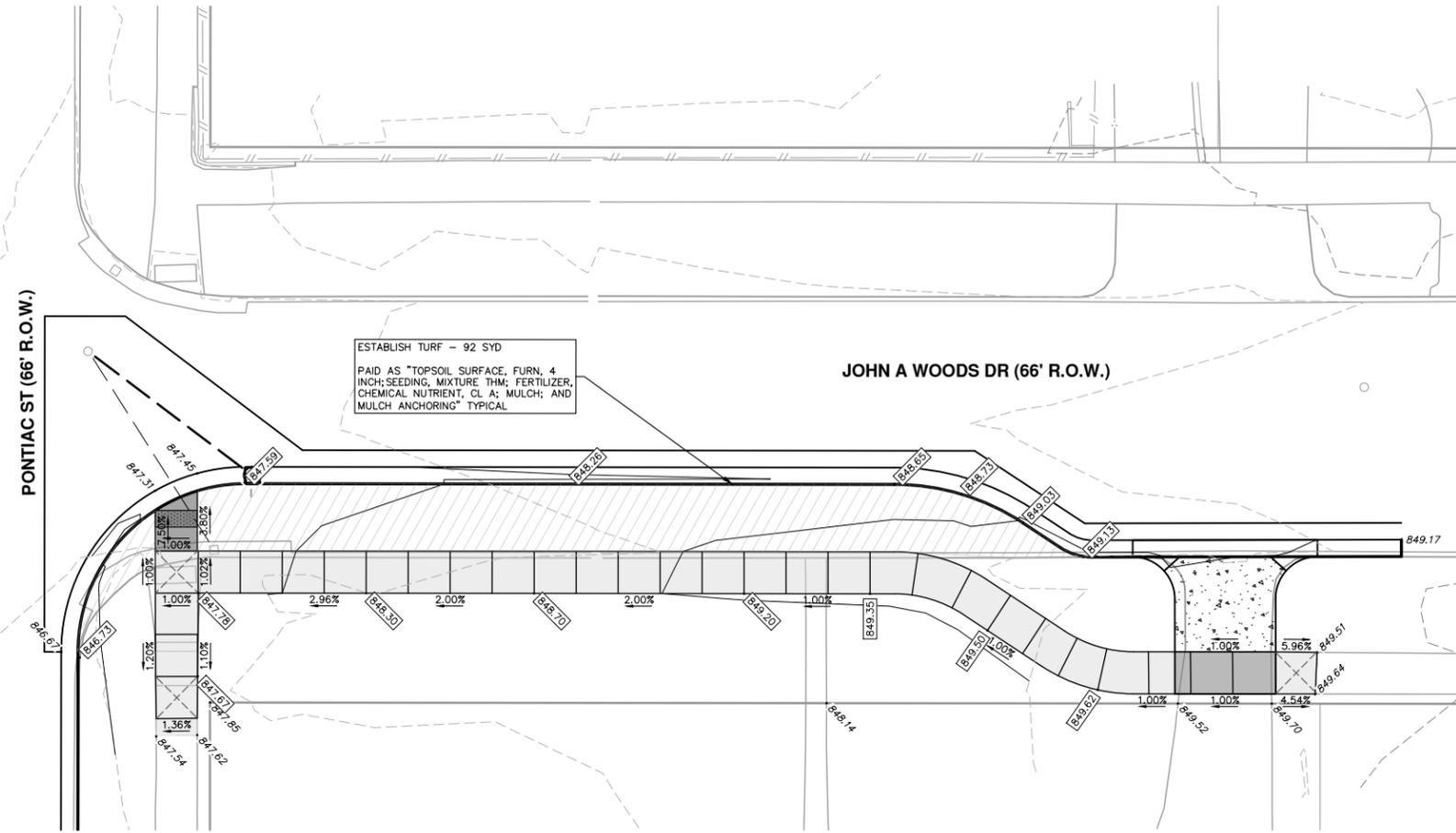
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**NORTHSIDE STEAM SAFE ROUTES TO SCHOOL**  
INTERSECTION GRADES  
TRAVER STREET

SCALE PLAN: 1" = 10'  
DRAWING No. 2018024-33  
SHEET No.

R:\2018024 Northside STEAM SRTS\Plan Production\2018024 John A Woods IG.dwg Dwg Created: 20-Feb-19 - \_a2 standard bw.stb - Plot Date: 15-Mar-19



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	FINAL SUBMITTAL	3-15-2019	DF,CC	JKA
00	MDOT GI SUBMITTAL	10-8-2018	KB,DF,CC	JKA

