CITY OF ANN ARBOR
ENGINEERING

SOUTH MAIN STREET SIDEWALK PROJECT

100% PLAN SUBMITTAL

RFP No. 26-10, FILE No. 2020-029

NOTES:

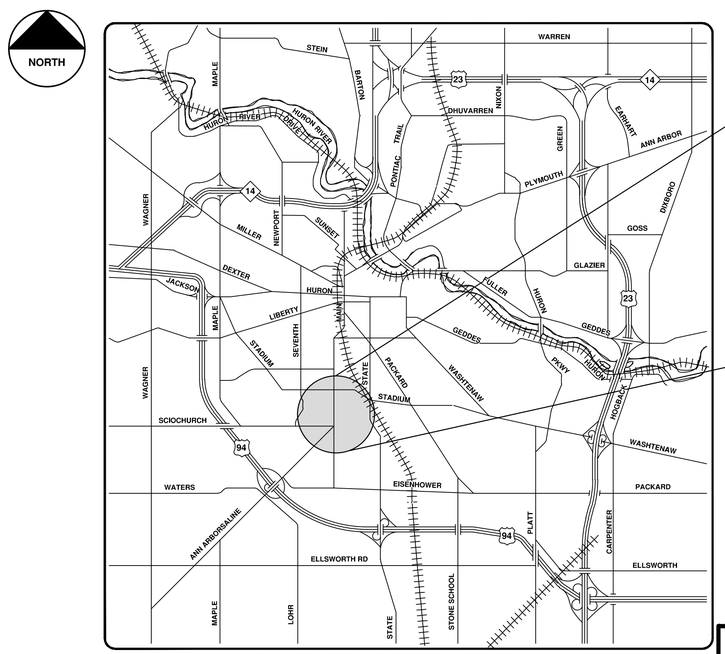
FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY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

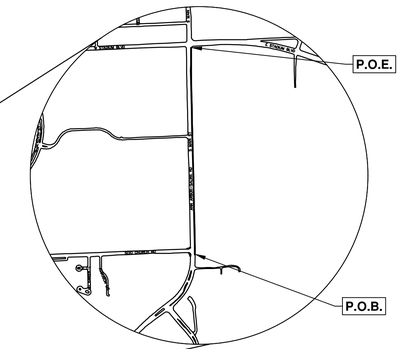
THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES AREA DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS ("STANDARDS"). THE OMISSION OF ANY STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR OF THEIR OBLIGATION TO CONSTRUCT ITEMS IN COMPLETE ACCORDANCE WITH THOSE STANDARDS.

SIDEWALK RAMPS, LANDINGS AND DETECTABLE WARNING PLATES TO FOLLOW MDOT REQUIREMENTS

Sheet List Table



VICINITY MAP



NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF

VAUGHN C. MARTIN, P.E.
MI LICENSE No. 52002
WADE TRIM, PROJECT MANAGER
1/23/2026
DATE

VAUGHN C. MARTIN ENGINEER No. 52002 — STATE OF MICHIGAN LICENSED PROFESSIONAL ENGINEER

CITY APPROVAL

THERESA CISCO BRIDGES, P.E.
MI LICENSE No. 6201052180
PROJECT MANAGER
1/23/2026
DATE

THERESA CISCO BRIDGES ENGINEER No. 6201052180 — STATE OF MICHIGAN LICENSED PROFESSIONAL ENGINEER

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734.794.6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SOUTH MAIN STREET SIDEWALK

SCALE

DRAWING No. 2020-029-1

SHEET No. 1 OF 38

CONSTRUCTION NOTES:

1. DRIVEWAYS AND ENTRANCES TO BUILDINGS, REAL PROPERTY, AND THE LIKE SHALL NOT BE BLOCKED EXCEPT FOR SHORT DURATIONS AND ONLY WHEN APPROVED BY THE ENGINEER. VEHICULAR AND PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL NECESSARY DRIVEWAY CLOSURES WITH THE PROPERTY OWNER(S) AND RESIDENT(S) IN THE AREAS OF CONSTRUCTION.

2. THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND SERVICE LEADS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

3. LOCATION AND DEPTH OF UTILITIES AS DEPICTED ON THE PLANS IS APPROXIMATE AND SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXCAVATE AHEAD AND ADJUST DEPTH OF CONFLICT UTILITIES ACCORDINGLY. ANY DAMAGE TO UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY TO AVOID AND/OR REPAIR AS NECESSARY.

4. DURING NON-WORKING HOURS NO TRENCH SHALL REMAIN OPEN; ANY OPEN TRENCH SHALL BE PROPERLY SECURED WITH PROTECTIVE FENCING. THIS WORK SHALL BE INCLUDED IN THE ITEM OF WORK "GENERAL CONDITIONS".

5. WHERE STREET CURBS ARE UNDERMINED DUE TO CONSTRUCTION ACTIVITIES, THEY SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUOUS MAINTENANCE OF SOIL EROSION CONTROL MEASURES WITHIN THE CONSTRUCTION AREA UNTIL THE FULL COMPLETION OF THE PROJECT. THIS WORK SHALL BE INCLUDED IN THE ITEM OF WORK "GENERAL CONDITIONS".

7. ALL CURB, SIDEWALK, DRIVEWAY APPROACH REMOVALS SHALL BE APPROVED BY ENGINEER BEFORE THE WORK IS DONE.

8. SAWED SEWER PIPE CONNECTIONS SHALL BE COUPLED WITH A FERNCO FLEXIBLE COUPLING AND A STAINLESS STEEL SHEAR RING.

9. THE LOCATION OF MATERIAL STOCK PILES AND ON-SITE STAGING AREAS TO BE APPROVED BY THE ENGINEER.

10. ALL STRUCTURES SHALL RECEIVE NEW CASTINGS AS DIRECTED BY THE ENGINEER, AS SPECIFIED ON THE STANDARD CASTING SCHEDULE. THE EXISTING CASTINGS ARE THE PROPERTY OF THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL DELIVER TO CITY OF ANN ARBOR PUBLIC WORKS FACILITY AT THE W.R. WHEELER SERVICE CENTER LOCATED AT 4251 STONE SCHOOL ROAD.

11. PAYMENT FOR DRAINAGE STRUCTURE SUMPS, WHERE SPECIFIED, SHALL BE INCLUDED IN THE PAYMENT FOR THE VARIOUS DRAINAGE STRUCTURE SIZES AND OR TYPES.

12. WHERE SEWER PIPES OF DIFFERENT SIZES OR MATERIALS ARE JOINED, FERNCO FLEXIBLE COUPLINGS WITH STAINLESS STEEL SHEAR RINGS SHALL BE USED. THE CONTRACTOR'S PURCHASE PRICE FOR THESE DEVICES, INCLUDING SHIPPING, SHALL BE PAID AS AN EXTRA. PRIOR TO PAYMENT FOR THIS ITEM, THE CONTRACTOR SHALL SUBMIT RECEIPTS FOR THE ENGINEER'S REVIEW AND APPROVAL. ALL OTHER COSTS ASSOCIATED WITH THE INSTALLATION OF THESE DEVICES SHALL BE INCLUDED IN THE PAYMENT FOR THE SEWER.

13. WHERE SEWER AND WATER MAIN ARE TO BE REMOVED & REPLACED OR ADDED, ALL PIPE SHALL BE INSTALLED USING TRENCH DETAIL DETAILED IN THE SPECIFICATIONS OR SHOWN ON PLANS. BACKFILL FOR SEWER AND WATER CONSTRUCTION SHALL BE MDOT GRANULAR MATERIAL, CLASS II.

14. EXISTING STREET NAME, GUIDE, AND REGULATORY SIGNS, AND MAILBOXES WHICH CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED PRIOR TO CONSTRUCTION, STORED IN A MANNER WHICH WILL PREVENT DAMAGE, AND RE-SET IN LOCATIONS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN "DS_MACHINE GRADING, MODIFIED"

15. 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 TOP OF PROPOSED PAVEMENT.

16. SIGN, REM, SALV INCLUDES THE COST OF REMOVING ATTACHING OR FASTENING HARDWARE IF SHOWN ON THE PLANS; AND REMOVING SIGNS FROM SUPPORTS; STORING SIGNS AFTER REMOVAL, LOADING, TRANSPORTING, AND UNLOADING THE SALVAGE SIGN. CONTRACTOR TO COORDINATE WITH THE CITY AND ENGINEER FOR UNLOADING LOCATION.

GENERAL
NOTIFY THE CITY OF ANN ARBOR SOIL EROSION CONTROL OFFICE 48 HOURS PRIOR TO BEGINNING WORK ON THE PROJECT. PHONE: 734-794-6265.

1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER AT ALL TIMES DURING CONSTRUCTION. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER.

2. ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, CHAPTER 55 ANN ARBOR UNIFIED DEVELOPMENT CODE, CITY OF ANN ARBOR STANDARDS DIVISION VII, THE LAWS OF THE STATE OF MICHIGAN, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

3. DAILY, OR AFTER ANY STORM EVENT, INSPECTIONS OF EROSION CONTROL MEASURES SHALL BE MADE BY THE CONTRACTOR. PERIODIC INSPECTIONS MAY BE MADE BY THE ENGINEER TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY CORRECTIONS SHALL BE MADE WITHOUT DELAY, AND WITHOUT ADDITIONAL COST TO THE CITY OF ANN ARBOR.

4. EROSION AND SEDIMENTATION FROM WORK ON THE SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS, ROADWAYS OR WATERWAYS.

5. ALL MUD/SOIL TRACKED ONTO ROADWAYS FROM THE SITE DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR. IF SO ORDERED, THE CONTRACTOR SHALL PROVIDE AND OPERATE A VACUUM-TYPE STREET SWEEPER, AT NO ADDITIONAL COST TO THE CITY OF ANN ARBOR.

6. RESTORATION OF ALL DISTURBED AREAS, INCLUDING PLACEMENT OF TOPSOIL, SEED, FERTILIZER AND MULCH AND/OR SOD SHALL BE PERFORMED WITHIN FIVE (5) DAYS OF THE COMPLETION OF FINAL GRADE.

7. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.

8. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.

9. PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF WATER TRUCKS AND/OR DUST PALLATIVE AS REQUIRED.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND REMOVAL OF SOME MEASURES UPON AUTHORIZED COMPLETION OF THE PROJECT. FINAL COMPLETION OF PROJECT WILL NOT BE AUTHORIZED UNTIL ALL SITE WORK AND UTILITY CONSTRUCTION IS COMPLETE AND ALL SOILS ARE STABILIZED.

11. THE CONTRACTOR SHALL NOT GRADE INTO ADJACENT PROPERTIES. SILT AND PROTECTIVE FENCE SHALL BE INSTALLED AND MAINTAINED TO PREVENT GRADING, EROSION AND SEDIMENTATION INTO THE ADJACENT PROPERTIES.

12. TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.

SEQUENCE OF EROSION CONTROL MEASURES:

1. THE CONTRACTOR IS TO SUBMIT TO THE ENGINEER, A SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION CONTROL MEASURES FOR REVIEW, COMMENT AND APPROVAL. THIS SCHEDULE IS TO INCLUDE INSPECTION AND REPAIR OF ALL TEMPORARY EROSION CONTROL MEASURES DAILY AND WITHIN 24 HOURS OF A STORM EVENT.

SAMPLE SOIL EROSION AND SEDIMENTATION CONTROL INSTALLATION MINIMUM REQUIREMENTS:

1.1. INSTALL SILT FENCE, TREE PROTECTION FENCING, MUD MATS, INLET FILTERS ON EXISTING DRAINAGE FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.

1.2. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.

1.3. INSTALL STORM SEWERS, AND OTHER ENCLOSED DRAINAGE FEATURES. NEW INLET FILTERS SHALL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF NEW DRAINAGE INLETS.

1.4. PERFORM MACHINE GRADING OPERATIONS AND CONSTRUCT PAVEMENTS (MAINLINE, SIDEWALKS, DRIVES, ETC.).

1.5. CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY.

1.6. COMPLETE ALL FINE GRADING.

1.7. TEMPORARY SEED AND INSTALL EROSION CONTROL BLANKET IN ALL DISTURBED AREAS.

1.8. REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.

1.9. ALL TEMP. SOIL EROSION CONTROL MEASURES MUST BE REMOVED, WITH ENGINEERS APPROVAL, PRIOR TO FINAL INSPECTION

NOTE: THIS SEQUENCE IS FOR INFORMATION ONLY. IT IS INTENDED TO SHOW THE SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THEIR OWN DETAILED CONSTRUCTION SEQUENCE AND SCHEDULE TO THE ENGINEER FOR REVIEW, COMMENT, AND APPROVAL.

TEMPORARY SEEDING:

1. SEED IN ACCORDANCE WITH PROJECT DRAWINGS AND SPECIFICATIONS.

2. ANY DISTURBED AREA NOT PAVED, SEEDED, MULCHED, SODDED OR BUILT UPON BY OCTOBER 15TH IS TO BE TEMPORARILY STABILIZED PER SPECIFICATIONS.

THE ESTIMATED COST OF SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, TOPSOIL, SEEDING, AND MULCH = $47,050

ON SITE SOILS PER THE USDA SOIL SURVEY OF WASHTENAW COUNTY, MICHIGAN:
- BntaaB - BLOUNT LOAM - SLOPE IS 2% TO 6%.
- WawabB - WAWASEE LOAM - SLOPE IS 2% TO 6%.
- WawabC - WAWASEE LOAM - SLOPE IS 6% TO 12%.

NO MOW SEED MIX

Recommended Seeding Rate: 200 lbs per acre
4 Varieties of Non-native Tall Fescues
~2500 seeds per sq ft

Call, email or visit our website for pricing.

Grasses		Lbs/Acre	% by Weight
Festuca brevipila	Hard Fescue (premium variety)	40.00	20%
Festuca ovina	Sheep Fescue	30.00	15%
Festuca rubra commutata	Chewings Fescue (premium variety)	70.00	35%
Festuca rubra arenaria	Creeping Red Fescue	60.00	30%
	Total lbs/acre	**200.00**	**100%**

PRAIRIE SEED MIX

Total Seeding Rate: 31.98 lbs per acre
3.94 lbs grasses • 2.94 lbs forbs • 25 lbs nurse crop
74.08 native seeds per sq ft • up to 4 ft

Call, email or visit our website for pricing.

Grasses		PLS Oz/acre	Seeds/sq ft
Bouteloua curtipendula	Side-oats Grama	11.00	1.52
Bromus kalmii	Prairie Brome	2.00	0.37
Carex bicknellii	Bicknell's Sedge	0.50	0.20
Carex brevior	Plains Oval Sedge	1.50	1.00
Elymus canadensis	Canada Wild Rye	6.00	0.72
Koeleria cristata	June Grass	1.50	6.89
Schizachyrium scoparium	Little Bluestem	36.00	12.40
Sporobolus cryptandrus	Sand Dropseed	2.00	9.18
Sporobolus heterolepis	Prairie Dropseed	2.50	0.92
	Total Grasses	**63.00**	**33.20**

Forbs		PLS Oz/acre	Seeds/sq ft
Achillea millefolium	Yarrow	0.50	2.05
Anemone virginiana	Tall Thimbleweed	0.75	0.48
Asclepias tuberosa	Butterfly Milkweed	1.50	0.15
Baptisia lactea (B. leucantha, B. alba)	White Wild Indigo	0.50	0.02
Coreopsis lanceolata	Lance-leaf Coreopsis	6.00	2.75
Chamaecrista fasciculata	Partridge Pea	8.00	0.50
Dalea purpurea (Petalostemum p.)	Purple Prairie Clover	4.00	1.65
Echinacea purpurea	Purple Coneflower	5.00	0.76
Euphorbia corollata	Flowering Spurge	0.25	0.05
Lespedeza capitata	Round-headed Bush Clover	1.00	0.18
Liatris aspera	Rough Blazingstar	0.25	0.09
Lupinus perennis	Lupine	1.00	0.03
Monarda fistulosa	Wild Bergamot	1.75	2.81
Monarda punctata	Horsemint	0.50	1.03
Penstemon digitalis	Foxglove Beardtongue	1.25	3.73
Penstemon hirsutus	Hairy Beardtongue	0.75	2.15
Potentilla arguta (Drymocallis a.)	Prairie Cinquefoil	0.75	3.96
Ratibida pinnata	Yellow Coneflower	1.50	1.03
Rudbeckia hirta	Black-eyed Susan	4.00	8.45
Solidago nemoralis	Old-field Goldenrod	0.50	3.44
Solidago rigida	Stiff Goldenrod	0.75	0.71
Symphyotrichum laeve	Smooth Blue Aster	0.75	0.95
Symphyotrichum oolentangiense	Sky Blue Aster	1.00	1.84
Tradescantia ohiensis	Common Spiderwort	1.50	0.28
Verbena stricta	Hoary Vervain	1.25	0.80
Zizia aptera	Prairie Golden Alexander	2.00	0.51
	Total Forbs	**47.00**	**40.40**

Woodies-Shrub,Tree,Vine		PLS Oz/acre	Seeds/sq ft
Amorpha canescens	Leadplant	1.00	0.39
Ceanothus americanus	New Jersey Tea	0.75	0.12
	Total Forbs	**1.75**	**0.51**

Temporary Grass Cover		Oz/acre	Seeds/sq ft
Lolium multiflorum	Annual Ryegrass	80.00	24.79
Avena sativa	Seed Oats	320.00	7.35
	Total Temp Grasses	**400.00**	**32.14**

IMPERVIOUS PROJECT AREA

PRIOR TO CONSTRUCTION = .01 ACRES

POST CONSTRUCTION = 0.51 ACRES

AREA OF PROPOSED DISTURBANCE = 0.67 ACRES

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
RIGHT-OF-WAY STREET TREE*	CITY OF ANN ARBOR FORESTRY

* NO COST TO CONTRACTOR

CONTACT INFORMATION

PUBLIC UTILITIES	OWNER	CONTACT
WATER (JASON MCDONALD)		
SANITARY (TRAVIS CONLEY)		
STORM (MARK SIRLS)	CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	(734) 794-6350
FORESTRY (NICK JACOB)		
SIGNS SIGNALS STREET LIGHTS (MARC MORENO)		(734) 794-6361
FIBER OPTIC (IT)		(734) 794-6550

PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	DARRYL ELLINGTON (313) 995-6078 ZACH WHITE (313) 405-6024
GAS	CONSUMERS ENERGY 1000 GRAND OAKS DR. HOWELL, MI 48843	BOB MCLACHLAN (517) 242-7878
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	ANTHONY IGNASIAK (734) 397-4112
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	STEVEN ALLSHOUSE (734) 996-5381
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016
FIBER OPTIC	WINDSTREAM 1295 S LINBDEN ROAD, SUITE B FLINT, MI	GREG SERICH (810) 244-3500
FIBER OPTIC	LUMEN 19675 W 10 MILE ROAD SOUTHFIELD, MI 48075	DAVE HUCKFELDT (517) 812-2592
FIBER OPTIC	FIBERLINK, INC PO BOX 701 LAPEER, MI 48446	TINA SNOBLEN (810) 667-2891 EXT 307
STREET LIGHTING	DTE ENERGY 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	LANCE ALLEY (734) 397-4188
UNIVERSITY OF MICHIGAN UTILITIES	UNIVERSITY OF MICHIGAN 1201 KIPKE DRIVE, ROOM 1080 ANN ARBOR, MI 48109	TERRY RAMSEY (734) 647-2031

PROJECT NAME BENCHMARKS

BM #	ELEV	DESCRIPTION
1	910.430	RR SPIKE IN WEST SIDE UTILITY POLE
2	894.600	TOP NUT HYDRANT AT SOUTHWEST CORNER STADIUM AND MAIN

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

DESCRIPTION	DATE	DRAWN	CHECKED

REV.

CITY OF ANN ARBOR
PUBLIC SERVICES
301 E. HURON STREET
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ANN ARBOR, MI 48107-8647
(734) 794-6430
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SOUTH MAIN STREET SIDEWALK
PROJECT

NOTES

SCALE: NTS

DRAWING No.
2020-029-2

SHEET No.
2 OF 38

EXISTING LEGEND

EX = EXISTING

- FIRE HYDRANT
- GATE VALVE IN BOX
- GATE VALVE IN WELL
- STOP BOX
- WATER VAULT
- WELL
- CATCH BASIN (SQ)
- CATCH BASIN (RD)
- STORM MANHOLE
- NON-CURB CATCH BASIN (SQ)
- END SECTION
- SANITARY MANHOLE
- CLEAN-OUT
- POST
- PEDESTRIAN SIGNAL
- SIGN
- HAND HOLE
- ORNAMENTAL LIGHT
- FLOOD LIGHT
- UNKNOWN MANHOLE
- TELEPHONE MANHOLE
- TELEPHONE RISER
- GAS VALVE
- GAS VENT
- GAS BOX
- ELECTRICAL RISER
- TRANSFORMER
- UTILITY POLE
- LAMP POLE
- GUY ANCHOR
- GUY POLE
- MONITORING WELL
- MAILBOX
- SOIL BORING
- TRAVERSE POINT
- BENCH MARK
- IRON PIPE
- MON BOX

- WATER MAIN
- WATER MAIN ABANDONED
- STORM SEWER
- STORM SEWER ABANDONED
- SANITARY SEWER
- SANITARY SEWER ABANDONED
- GAS MAIN
- GAS MAIN (DEAD)
- ELECTRICAL OVER HEAD
- ELECTRICAL UNDER GROUND
- COMMUNICATION OVER HEAD
- ELECTRICAL DUCT BANK
- TELEPHONE OVER HEAD
- TELEPHONE UNDER GROUND
- TELEPHONE DUCT BANK
- CABLE TV OVER HEAD
- CABLE TV UNDER GROUND
- FIBER OPTIC
- FIBER OPTIC DUCT BANK
- BOUNDARY
- BUILDING
- CENTERLINE OF DITCH
- CENTERLINE/CROWN OF ROAD
- CONTOUR MAJOR
- CONTOUR MINOR
- EDGE OF WATER
- FLOODPLAIN
- FENCE
- GRAVEL
- GUARDRAIL
- STONE WALL
- R.O.W.
- TREELINE
- WETLAND
- EDGE OF BRUSH
- HEDGE

- TREE (DECIDUOUS)
- TREE (CONIFEROUS)
- SHRUB (DECIDUOUS)
- STUMP
- TREE TO REMAIN & PROTECT (DECIDUOUS)
  CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREAST HEIGHT (INCHES) X 10
- TREE TO REMAIN & PROTECT (CONIFEROUS)
  CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREAST HEIGHT (INCHES) X 10

PROPOSED LEGEND

PROP = PROPOSED

- HYDRANT (PLAN)
- WATER GATE WELL
- REDUCER
- WATER GATE VALVE
- WATER STOP BOX
- WATER VAULT
- INLET
- DOUBLE INLET
- INLET JUNCTION CHAMBER
- ROUND CATCH BASIN
- STORM MANHOLE
- DRAIN ARROW
- FLARED END SECTION
- SANITARY MANHOLE
- CLEAN-OUT
- BARREL
- SIGN
- PUSH BUTTON
- HAND HOLE

- WATER MAIN
- STORM SEWER
- SANITARY SEWER
- FIBER OPTIC
- ELECTRICAL
- CENTERLINE OF DITCH
- CENTERLINE OF ROAD
- FENCE
- GRAVEL
- SILT FENCE
- PROTECTIVE FENCE
- GUARDRAIL
- LOT/UNIT
- CURB
- TEMPORARY GRADING PERMIT
- CONTOUR MAJOR
- CONTOUR MINOR
- WATER EASMENT
- STORM EASEMENT
- SANITARY EASEMENT
- R.O.W.
- LIMITS OF CONSTRUCTION/GRADING
- DETECTABLE WARNING
- ASPHALT
- CONCRETE
- SIDEWALK
- TREE (DECIDUOUS)
- TREE (CONIFEROUS)
- TREE TO BE REMOVED (DECIDUOUS)
- TREE TO BE REMOVED (CONIFEROUS)
- STUMP TO BE REMOVED

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SOUTH MAIN STREET SIDEWALK PROJECT

LEGEND

SCALE: NTS

DRAWING No. 2020-029-3

SHEET No. 3 OF 38

GENERAL NOTES

1. DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES ARE BASED ON PREVIOUS CONTRACT DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING WITH FIELD MEASUREMENTS ALL DIMENSIONS AND ELEVATIONS FOR FABRICATION AND/OR MODIFICATIONS OR ADDITIONS BEING MADE UNDER THIS CONTRACT. ANY DISCREPANCIES SHALL BE PRESENTED TO THE OWNER AND ANY DESIGN CONFLICTS SHALL BE RESOLVED WITH OWNER PRIOR TO FABRICATIONS OR CONSTRUCTION OF IMPACTED ITEMS.
2. ALL EXISTING DIMENSIONS AND ELEVATIONS SHOWN WITH THE ± SYMBOL, ARE APPROXIMATE AND SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR BEFORE FABRICATION AND CONSTRUCTION.
3. ALL DIMENSIONS OR ELEVATIONS MARKED WITH AN ASTERISK "*" SHALL BE DETERMINED OR VERIFIED WITH EQUIP. MFR. CERTIFIED SHOP DRAWINGS OR FIELD MEASUREMENTS OF EXISTING CONSTRUCTION BEFORE FABRICATION AND CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF STRUCTURES DURING CONSTRUCTION. THE STRUCTURAL INTEGRITY OF THE RETAINING WALL SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION ACCORDING TO PLANS AND SPECIFICATIONS. THE ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURES, MEANS AND METHODS, OR SAFETY DURING CONSTRUCTION. MEANS AND METHOD OF CONSTRUCTION, TEMPORARY SHORING AND BRACING, AND CONSTRUCTION SITE SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL ELEVATIONS ARE BASED ON NAVD 88.

CODES, LOADS AND GEOTECHNICAL

1. ALL STRUCTURES SHALL BE DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES:
   - A. MICHIGAN BUILDING CODE (2015)
   - B. INTERNATIONAL BUILDING CODE (2015)
   - C. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES - AMERICAN SOCIETY OF CIVIL ENGINEERS" ASCE 7-16
   - D. AISC STEEL CONSTRUCTION MANUAL, FOURTEENTH EDITION
   - E. AMERICAN WELDING SOCIETY (AWS)
     - 1.) AWS D1.1: 2010 STRUCTURAL STEEL
     - 2.) AWS D1.3: 2008 SHEET STEEL
     - 3.) AWS D1.4: 2001 REINFORCING STEEL
   - F. OCCUPATIONAL SAFETY AND HEALTH ACT, OSHA REGULATIONS (STANDARDS-29 CFR) PART 1926 SUBPART R-STEEL ERECTION
   - G. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318-19
   - H. GEOTECHNICAL INVESTIGATION FOR S. MAIN STREET SIDEWALK, ANN ARBOR MICHIGAN, MAY 4, 2023.
   - I. MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

DESIGN LOADS

1. DESIGN LOADS SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2015 (IBC) AND NFPA 68/69.
2. DESIGN LOADS:
   - A. EARTH LATERAL LOADS
     - 1.) SEE SOIL LOAD GRAPH ON THIS SHEET.
   - B. ALL GUARDRAILS AND HANDRAILS SHALL BE DESIGNED TO MEET LOADING CRITERIA CONFORMING TO REQUIREMENTS OF INTERNATIONAL BUILDING CODE 2015.

DEMOLITION/REMOVAL

1. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT DAMAGE TO EXISTING STRUCTURES, WHICH ARE TO REMAIN, DURING REMOVAL WORK. ALL DAMAGE SHALL BE REPAIRED TO THE COMPLETE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
2. WHEN REMOVING EXISTING CONCRETE BY CUTTING OR CHIPPING THE CONTRACTOR SHALL ONLY REMOVE REINFORCING BARS WHICH CANNOT BE BENT INTO AREAS WHERE NEW CONCRETE WOULD COMPLETELY COVER THEM.
3. IF FRACTURE OF ADJACENT CONCRETE OCCURS DURING REMOVAL/ALTERATION WORK, THE REPAIR SHALL BE WITH AN ENGINEER APPROVED PRESSURE INJECTED EPOXY, TO THE COMPLETE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL PROVIDE WRITTEN PLAN AND DESCRIPTION OF ALL REMOVAL, MODIFICATION, OR ALTERATION WORK ON EXISTING STRUCTURES FOR REVIEW AND ACCEPTANCE PRIOR TO BEGINNING WORK.

EXCAVATION

1. CONTRACTOR SHALL PREPARE AN EXCAVATION PLAN INCLUDING SIDE SLOPES PROPOSED, TEMPORARY OR PERMANENT EARTH RETENTION SYSTEMS, AND DEWATERING OR DEPRESSURIZING SYSTEMS, IF REQUIRED, FOR REVIEW PRIOR TO START OF WORK.
2. SOIL BORING DATA IS INCLUDED IN THE SPECIFICATIONS FOR INFORMATION ABOUT THE UNDERGROUND CONDITIONS ONLY AT THE LOCATIONS WHERE THE BORINGS WERE MADE. THE OWNER DOES NOT REPRESENT OR WARRANT THAT THE UNDERGROUND CONDITIONS ENCOUNTERED DURING CONSTRUCTION SHALL CONFORM TO THOSE DESCRIBED IN THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT. THE CONTRACTOR SHALL DRAW THEIR OWN CONCLUSIONS AS TO SOIL CONDITIONS FROM THEIR OWN EXPERIENCE, INDEPENDENT KNOWLEDGE, AND INVESTIGATION OF THE SITE. THE CONTRACTOR SHALL OBTAIN ADDITIONAL SUBSURFACE CONDITION INFORMATION AS THEY CONSIDER NECESSARY TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
3. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF IN AN APPROVED MANNER.
4. ALL EXCAVATIONS SHALL CONFORM TO OSHA REQUIREMENTS.
5. ALL EXCAVATIONS, FILLING, BACKFILLING, FOUNDATION AND COMPACTION CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL INVESTIGATION REPORT, REQUIREMENTS NOTED ON THE DRAWINGS, AND PROJECT SPECIFICATIONS, UNO.
6. BARRICADE ALL OPEN EXCAVATIONS OCCURRING AS PART OF THE WORK AND POST WITH WARNING LIGHTS.
7. SLOPE OR BENCH SIDES OF EXCAVATIONS TO COMPLY WITH CODES AND ORDINANCES HAVING JURISDICTION. PROVIDE SHORING OR SHIELDING WHERE OPEN CUT SLOPES ARE NOT POSSIBLE BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIAL EXCAVATED.
8. IF ENCOUNTERED, THE EXISTING SEWER PIPES WITHIN THE EXCAVATION AREA SHALL BE BACKFILLED WITH CLSM TO THE SPRINGLINE OF THE PIPE. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARILY SUPPORTING THE EXISTING PIPES DURING CONSTRUCTION UNTIL PIPES HAVE BEEN ADEQUATELY BACKFILLED.

SOLDIER PILE AND LAGGING WALLS

1. CONTRACTOR SHALL BE AWARE OF AND VERIFY LOCATION OF ALL UNDERGROUND UTILITIES, TANKS, ETC. DUE CARE SHALL BE EXERCISED DURING CONSTRUCTION ACTIVITIES (INCLUDING DRILLED SHAFTS) SUCH THAT EXISTING UTILITIES ARE NOT DAMAGED.
2. THE OWNER WILL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER TO MONITOR THE DRILLING ACTIVITIES AND DETERMINE THE QUALITY OF SOIL OR ROCK AT ALL DRILLED SHAFT LOCATIONS.
3. SOLDIER PILE DRILLED SHAFTS SHALL BE BACKFILLED WITH 5000 PSI CONCRETE.
4. LAGGING SHALL EXTEND AT LEAST 12" BELOW THE FINAL GRADE ELEVATION.
5. SEE DRAWINGS FOR MINIMUM REQUIRED PRECAST CONCRETE LAGGING THICKNESS. CONTRACTOR SHALL DESIGN PRECAST LAGGING TO RESIST THE EARTH LATERAL LOADS INDICATED ON THIS SHEET.
6. CONTRACTOR SHALL MEET THE FOLLOWING TOLERANCES:
   - A. OUT OF PLAN LOCATION TOLERANCE: WITHIN 1" OF THEORETICAL LOCATION.
   - B. VERTICALITY TOLERANCE: SHALL NOT EXCEED 1%.
7. IN CASE OF CONFLICT WITH EXISTING UTILITIES, THE SOLDIER PILE SPACING SHALL BE DECREASED SO THAT NO EXISTING UTILITIES ARE AFFECTED BY DRILLING ACTIVITY.

WEEP HOLES

1. WEEP HOLES USED TO CONTROL GROUNDWATER LEVEL SHALL BE INSTALLED AS EXCAVATION PROGRESSES.
2. WEEP HOLES TO BE CAPPED. SEE CAP DETAILS ON SHEET 5.
3. ADDITIONAL WEEP HOLES SHALL BE INSTALLED AS REQUIRED AT LOCATIONS OF SEEPAGE OR WHERE SEAMS OF SAND AND/OR SILT ARE OBSERVED IN THE EXCAVATION.

CAST-IN-PLACE CONCRETE

1. THE DETAILING, BENDING, AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318-19 CODE AND ACI DETAILING MANUAL, SP-66 (94). FIELD BENDING WILL NOT BE PERMITTED UNLESS APPROVED BY ENGINEER.
2. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
3. STRUCTURAL CONCRETE SPECIFICATIONS PER MDOT DIVISION 7. ALL STRUCTURAL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 5000 PSI @ 28 DAYS, UNO. REFER TO CIVIL SHEETS FOR THE COMPRESSIVE STRENGTH REQUIREMENT FOR CIVIL COMPONENTS SUCH AS SIDEWALKS, WALKS, RAMPS AND LANDINGS.
4. STEEL REINFORCING SHALL NOT BE SPLICED AT POINTS OTHER THAN SHOWN ON THE PLANS, EXCEPT AS APPROVED BY THE ENGINEER, UNO.
5. ALL STIRRUPS AND TIES SHALL BE CLOSED TYPE WITH 135 DEGREE HOOKS, UNO.
6. THE LENGTH OF ALL LAP SPLICES SHALL BE AS SPECIFIED IN "REINFORCING TENSION SPLICE TABLE" ON THIS SHEET UNLESS OTHERWISE INDICATED IN DRAWINGS. WHEN BARS OF DIFFERENT SIZE ARE BEING LAPPED, THE LENGTH SHALL BE THE SPECIFIED LAP LENGTH OF THE LARGER BAR.
7. CONCRETE COVER OVER PRIMARY REINFORCEMENT SHALL BE 2 INCHES MINIMUM (1 1/2" FOR COLUMN TIES AND BEAM STIRRUPS), UNLESS NOTED OTHERWISE, AND 3 INCHES MINIMUM WHERE CAST AGAINST EARTH.

PRECAST CONCRETE

1. DESIGN OF PRECAST STRUCTURAL MEMBERS SHALL CONFORM TO THE LATEST EDITION OF ACI 350 AND PCI MNL 120 AND SHALL BE DESIGNED TO SUSTAIN THE SUPERIMPOSED LOADS INDICATED.
2. ALL PRECAST SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
3. PRECAST MANUFACTURER SHALL DESIGN PRECAST STRUCTURAL SYSTEMS, INCLUDING ALL REQUIRED STEEL HANGERS WHICH SHALL BE HOT-DIPPED GALVANIZED STEEL ABOVE DRY AREAS, AND A316 STAINLESS STEEL ABOVE WET AREAS. DESIGN CALCULATIONS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MICHIGAN, AND SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.

METALS - STEEL

1. STRUCTURAL STEEL AND MISCELLANEOUS METALS DESIGN SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AISC/ANSI 360.
2. BOLTS SHALL BE A MINIMUM 3/4" DIAMETER, ASTM A325N, TYPE 1, UNO. PROVIDE COMPATIBLE A563 GRADE DH, HEAVY HEX NUTS, AND F436 GRADE 1 WASHERS.
3. ALL GALVANIZED STEEL SHALL BE HOT-DIP GALVANIZED CONFORMING TO ASTM A123, UNO.
4. STRUCTURAL STEEL HP PILING SHALL BE ASTM A572 GRADE 50 (fy=50 KSI) STEEL HOT-DIP GALVANIZED.

MISCELLANEOUS

1. CONTRACTOR IS RESPONSIBLE TO IDENTIFY AND ACCOMMODATE OPENINGS AND EMBEDDED ITEMS SHOWN ON OTHER DRAWINGS.
2. ALL ADHESIVE ANCHORING SYSTEMS FOR POST INSTALLED ANCHORS AND/OR REINFORCING DOWELS IN CONCRETE SHALL BE "HIT-HY 200 ADHESIVE ANCHORING SYSTEM" BY HILTI AT SIZE AND SPACING INDICATED ON DRAWINGS (OR APPROVED EQUAL).
3. ALL EXISTING DIMENSIONS AND ELEVATIONS SHOWN WITH THE ± SYMBOL, ARE APPROXIMATE AND SHALL BE VERIFIED IN FIELD BY SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR BEFORE FABRICATION AND CONSTRUCTION.

STRUCTURAL DEFERRED SUBMITTALS

1. THE FOLLOWING PORTIONS OF THE PROJECT ARE DEFERRED SUBMITTAL ITEMS AND HAVE NOT BEEN DESIGNED BY THE ENGINEER OF RECORD:
   A. PRECAST CONCRETE LAGGING
   B. ALL TEMPORARY GROUND SUPPORT SYSTEMS
2. DEFERRED SUBMITTAL ITEMS WILL BE SUBMITTED TO THE OWNER FOR APPROVAL DURING THE CONSTRUCTION OF THE PROJECT. CONSTRUCTION OF DEFERRED SUBMITTAL ITEMS SHALL NOT COMMENCE UNTIL THE OWNER HAS APPROVED THE SUBMITTAL.

STRUCTURAL SPECIAL INSPECTIONS

1. ALL SPECIAL INSPECTIONS SHALL BE PERFORMED IN COMPLIANCE WITH MICHIGAN BUILDING CODE.

ADHESIVE ANCHORING SYSTEM MINIMUM EMBEDMENT DEPTH FOR DOWELS AND RODS		
REINFORCING BARS/DOWELS		
BAR SIZE	EMBED DEPTH	REMARKS
#3	5 1/2"	
#4	5 1/2"	
#5	7"	
#6	8 1/2"	
#7	10"	
#8	11 3/4"	
ANCHOR RODS		
BOLT DIAMETER	EMBED DEPTH	
3/8"	3 1/2"	
1/2"	4 1/4"	
5/8"	5"	
3/4"	6 5/8"	
1"	8 1/4"	

NOTES:
1. ALL ANCHORS INSTALLED WITH AN ADHESIVE ANCHORING SYSTEM SHALL, AT A MINIMUM, HAVE THE EMBEDMENT DEPTHS INDICATED IN THE TABLE ABOVE UNLESS SPECIFICALLY INDICATED OTHERWISE ON DRAWINGS.
2. CONFIRM REQUIRED EMBEDMENT DEPTHS WITH MANUFACTURERS REQUIREMENTS FOR DEVELOPING THE TENSION CAPACITY OF THE ANCHOR RODS (TYP).

ADHESIVE ANCHOR TABLE
SCALE: NONE

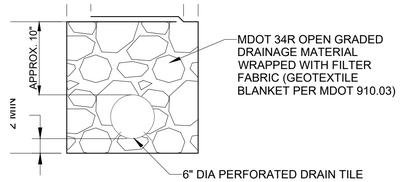
REINFORCING TENSION SPLICE TABLE		
BAR SIZE	TENSION LAP	TOP BARS[4]
#3	16"	22"
#4	20"	29"
#5	24"	36"
#6	29"	43"
#7	42"	63"
#8	48"	72"
#9	54"	81"
#10	61"	91"
#11	67"	101"

NOTES:
1. ABOVE TABLE IS FOR NORMAL WEIGHT CONCRETE, f'c= 5,000 PSI AND REINFORCING STEEL; fy= 60,000 PSI.
2. ALL SPLICES SHALL BE CONSIDERED TENSION SPLICES USING LAP LENGTHS IN TABLE ABOVE UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE DRAWINGS.
3. LENGTHS ARE BASED ON LAP CLASS B SPLICES WITH CENTER TO CENTER SPACING OF BARS GREATER THAN 6 DIAMETERS.
4. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST UNDER THEM.
5. USE TENSION LAP LENGTHS FOR HORIZONTAL & VERTICAL WALL BARS.

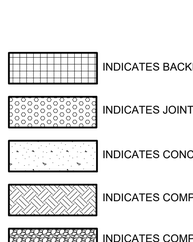
REINFORCING TENSION SPLICE TABLE
SCALE: NONE

ALT	ALTERNATE	HT	HEIGHT
APPROX	APPROXIMATE	IF	INSIDE FACE
B	BOTTOM	IN	INCHES
BJ	BOTTOM OF	JT	JOINT
CJ	CONTROL (CONTRACTION) JOINT	LGHT	LENGTH
CL	CENTERLINE	MAX	MAXIMUM
CLR	CLEAR	MDOT	MICHIGAN DEPARTMENT OF TRANSPORTATION
CONC	CONCRETE	MIN	MINIMUM
CONSTR	CONSTRUCTION	NA	NOT APPLICABLE
CONT	CONTINUOUS	NF	NEAR FACE
COR	CORNER	NS	NEAR SIDE
D	DEPTH	NTS	NOT TO SCALE
DIA	DIAMETER	OC	ON CENTER
DIAG	DIAGONAL	OF	OUTSIDE FACE
DT	DRAIN TILE	OPNG	OPENING
DWLS	DOWELS	REINF	REINFORCEMENT
EJ	EXPANSION JOINT	SHT	SHEET
EF	EACH FACE	SIM	SIMILAR
ES	EACH SIDE	SS	STAINLESS STEEL
EQ	EQUAL	SSP	STEEL SHEET PILING
EW	EACH WAY	STIR	STIRRUPS
EA	EACH	STRUCT	STRUCTURAL
EL.	ELEVATION	SX	STRUCTURAL REMOVAL
EX.	EXISTING	T	TOP
EXIST.	EXISTING	T/	TOP OF
EXP	EXPANSION	T&B	TOP AND BOTTOM
FF	FAR FACE	THK	THICK
FS	FAR SIDE	TYP	TYPICAL
FT	FEET	UNO	UNLESS NOTED OTHERWISE
FV	FIELD VERIFIED	V	VERTICAL
GALV	GALVANIZED	VEF	VERTICAL EACH FACE
GR	GRADE	VIF	VERTICAL INSIDE FACE
H	HORIZONTAL	VOF	VERTICAL OUTSIDE FACE
HEF	HORIZONTAL EACH FACE	VERT	VERTICAL
HIF	HORIZONTAL INSIDE FACE	W	WIDTH
HOF	HORIZONTAL OUTSIDE FACE	WWF	WELDED WIRE FABRIC
HORIZ	HORIZONTAL		

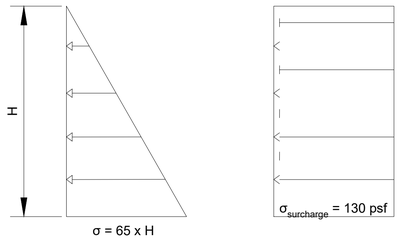
STRUCTURAL ABBREVIATIONS



DRAIN TILE (DT) TRENCH
SCALE: NONE

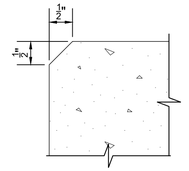


HATCH LEGEND



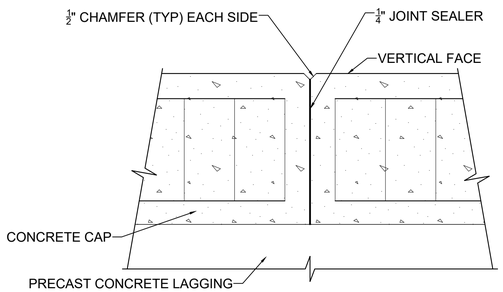
σ = EARTH LATERAL LOAD (psf)
$\sigma_{SURCHARGE}$ = SURCHARGE LATERAL LOAD (psf)
H = HEIGHT IN FT

EARTH LATERAL LOADS

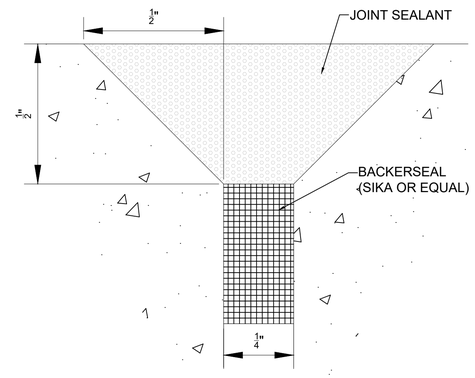


NOTE: ALL EXPOSED EXTERNAL CONCRETE CORNERS SHALL HAVE A CHAMFER EDGE.

CHAMFER DETAIL
SCALE: NONE



TYPICAL EXPANSION JOINT DETAIL FOR CONCRETE CAP
SCALE: NONE



JOINT SEALER
SCALE: NONE

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

DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 E. HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734.794.6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

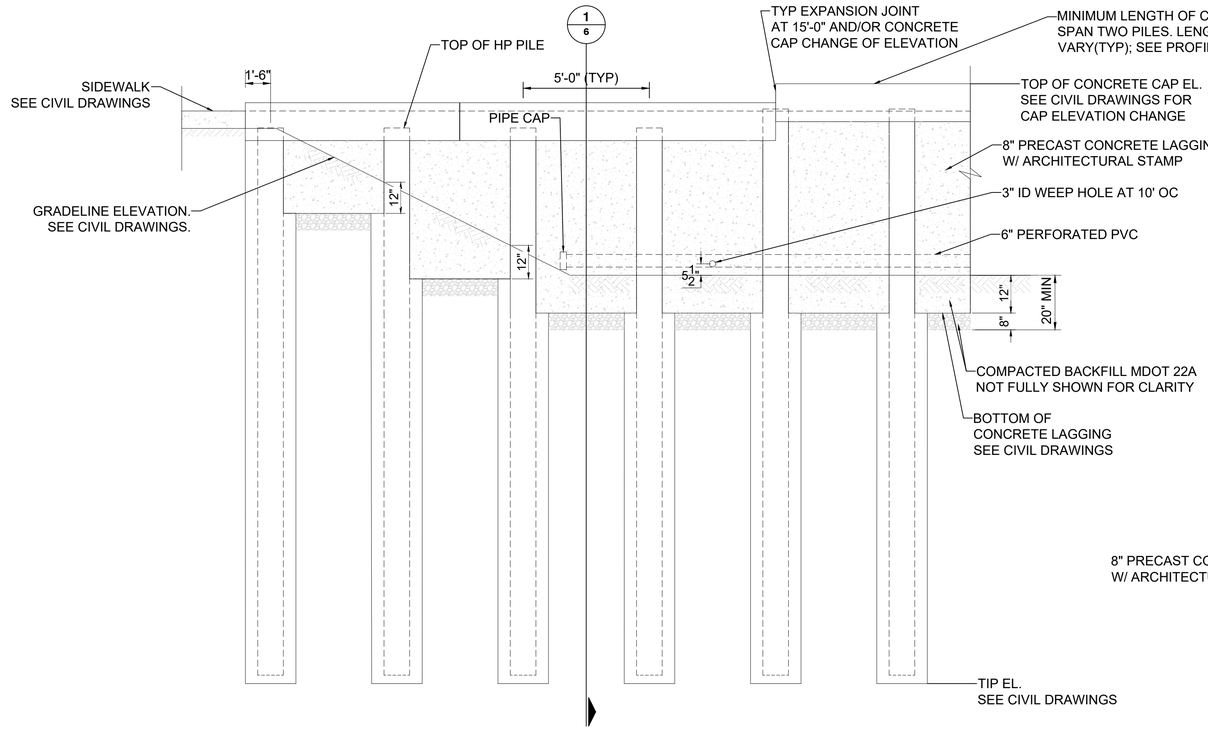
SOUTH MAIN STREET SIDEWALK

GENERAL STRUCTURAL NOTES AND DETAILS

SCALE: NTS

DRAWING No. 2020-029-4

SHEET No. 4 OF 38

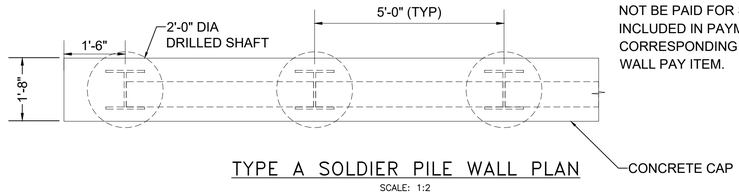


TYPE A SOLDIER PILE WALL ELEVATION

SCALE: 1:3

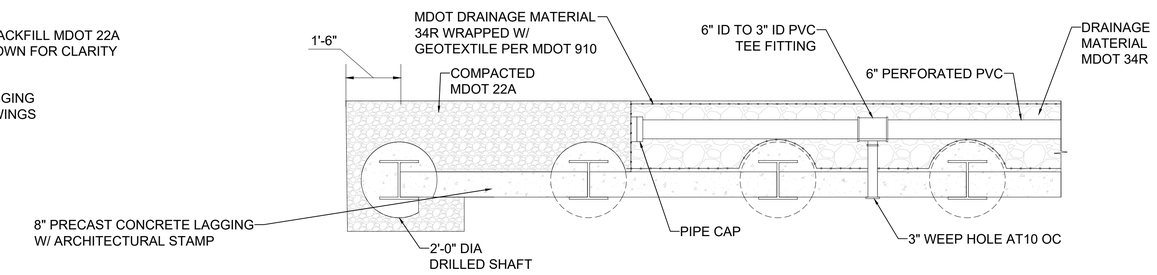
NOTES:

1. THE CONTRACTOR SHALL LIMIT EXCAVATION AS NECESSARY TO PROTECT ANY SITE FEATURES BEHIND THE WALL THAT ARE NOT MARKED FOR REMOVAL ON THE PLANS UTILIZING SHORING, BRACING, TRENCH BOXES, AND OTHER ENGINEER APPROVED METHODS OF TRENCH STABILIZATION. PAYMENT FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN PAYMENT FOR THE CORRESPONDING SOLDIER PILE RETAINING WALL PAY ITEM.



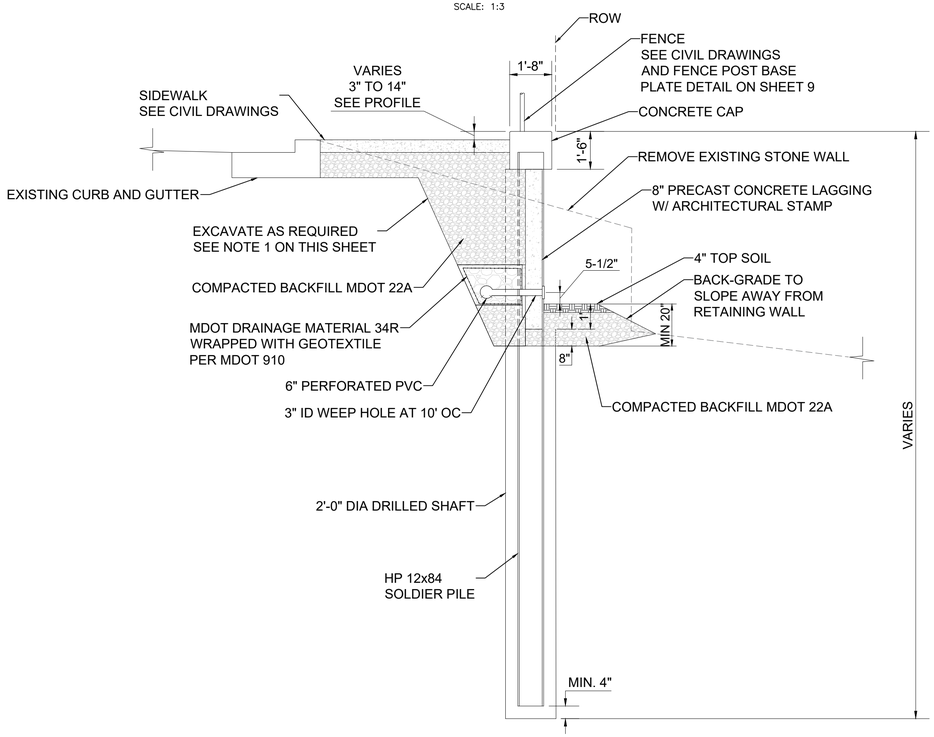
TYPE A SOLDIER PILE WALL PLAN

SCALE: 1:2



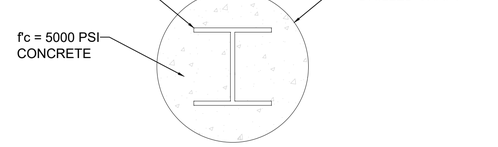
TYPE A SOLDIER PILE WALL SECTION

SCALE: 1:2



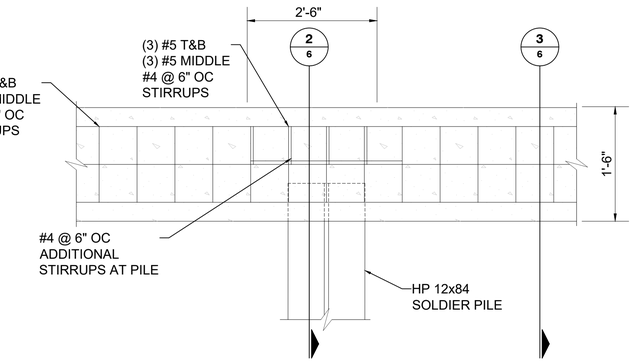
1 / 6 TYPE A SOLDIER PILE WALL SECTION

SCALE: 1:3



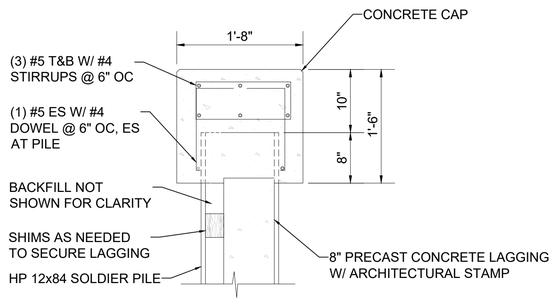
TYPE A DRILLED SHAFT

SCALE: 1:1



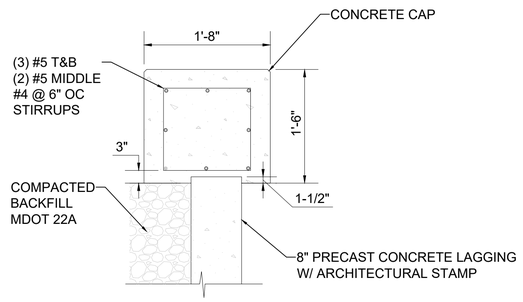
TYPE A CONCRETE CAP REINFORCEMENT

SCALE: 1:1



2 / 6 TYPE A CONCRETE CAP REINFORCEMENT SECTION

SCALE: 1:1



3 / 6 TYPE A CONCRETE CAP REINFORCEMENT SECTION

SCALE: 1:1

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ANN ARBOR, MI 48107-8647
734.794.6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SOUTH MAIN STREET SIDEWALK

TYPE A RETAINING WALL STA 25+38 TO 27+79

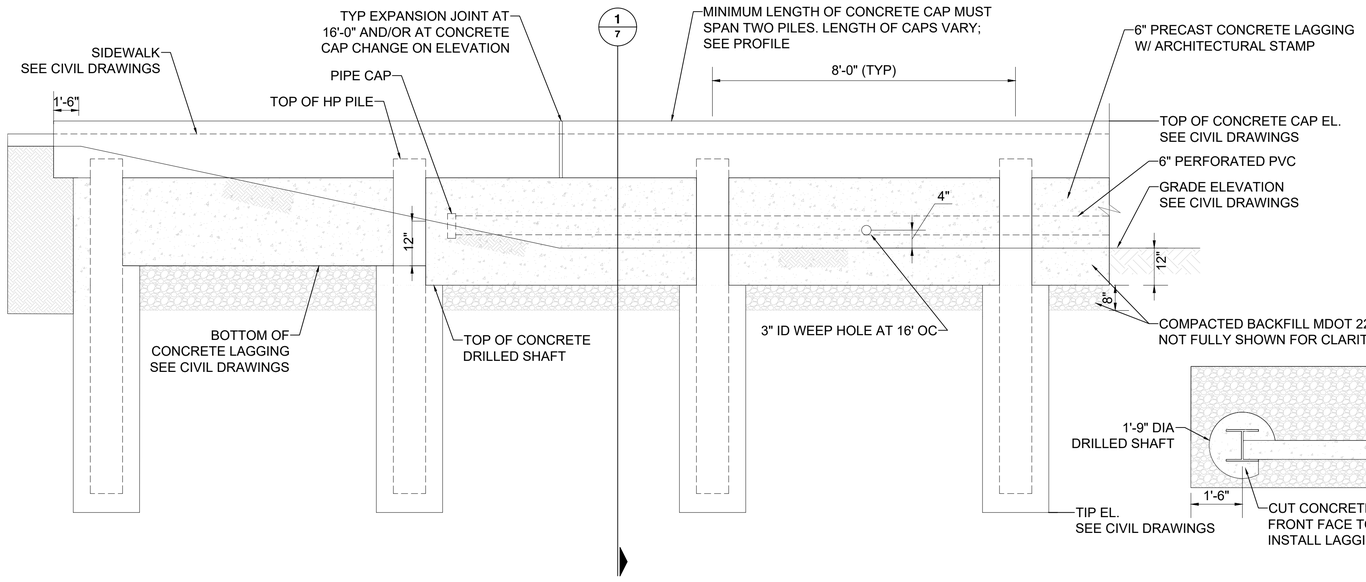
SCALE: VARIES

DRAWING No. 2020-029-6

SHEET No. 5 OF 38

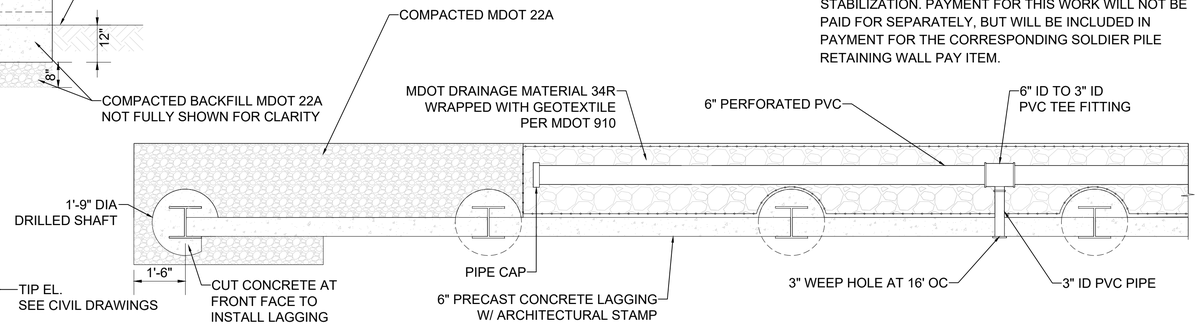
NOTES:

1. SEE CIVIL SHEET NO. 16 FOR EXISTING 15" DIA STORM PIPE CROSSING. PILE SPACING SHALL BE DECREASED, IF NEEDED, TO AVOID ANY CONFLICTS. CONTRACTOR SHALL SUPPORT EXISTING 15" DIA STORM PIPE AT ALL TIMES.
2. CONCRETE LAGGING AT 15" DIA STORM PIPE CROSSING SHALL BE DESIGNED ACCORDINGLY TO ALLOW FOR PIPE PENETRATION AND SUBMITTED FOR ENGINEER'S REVIEW.
3. THE CONTRACTOR SHALL LIMIT EXCAVATION AS NECESSARY TO PROTECT ANY SITE FEATURES BEHIND THE WALL THAT ARE NOT MARKED FOR REMOVAL ON THE PLANS UTILIZING SHORING, BRACING, TRENCH BOXES, AND OTHER ENGINEER APPROVED METHODS OF TRENCH STABILIZATION. PAYMENT FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN PAYMENT FOR THE CORRESPONDING SOLDIER PILE RETAINING WALL PAY ITEM.



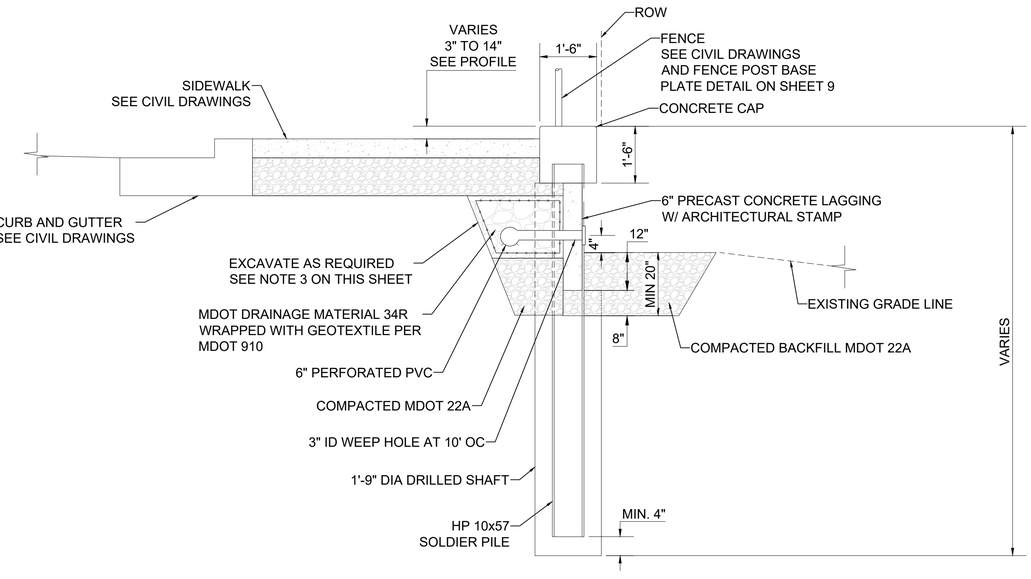
TYPE B SOLDIER PILE WALL ELEVATION

SCALE: 1:2



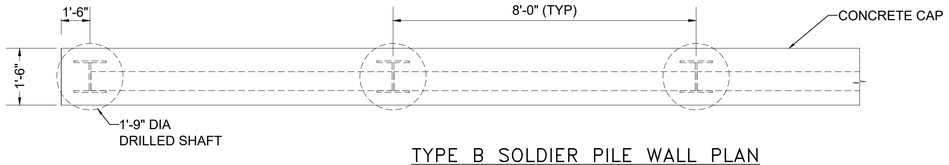
TYPE B SOLDIER PILE WALL SECTION

SCALE: 1:2



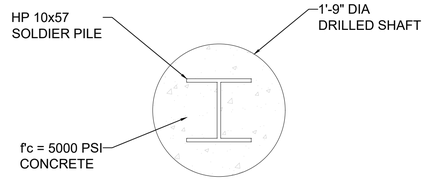
1 / 7 TYPE B SOLDIER PILE WALL SECTION

SCALE: 1:2



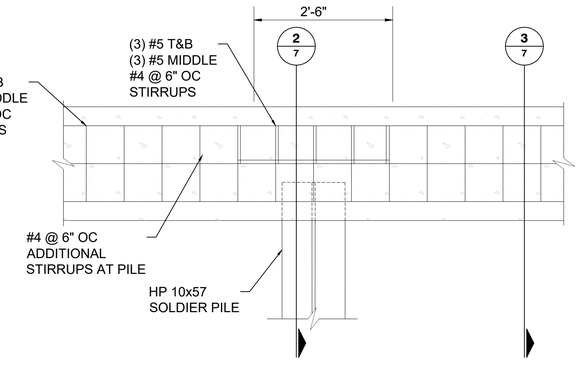
TYPE B SOLDIER PILE WALL PLAN

SCALE: 1:2



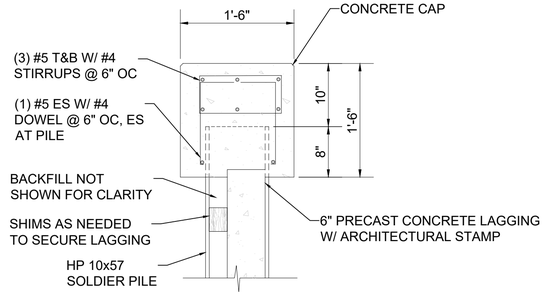
TYPE B DRILLED SHAFT

SCALE: 1:1



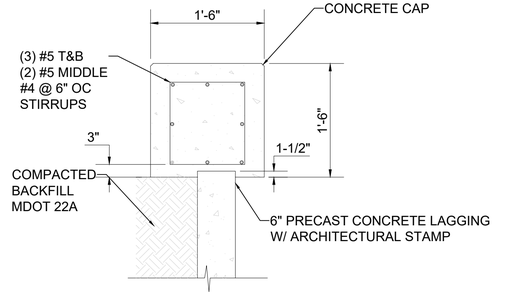
TYPE B CONCRETE CAP REINFORCEMENT

SCALE: 1:1



2 / 7 TYPE B CONCRETE CAP REINFORCEMENT SECTION

SCALE: 1:1



3 / 7 TYPE B CONCRETE CAP REINFORCEMENT SECTION

SCALE: 1:1

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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734.794.6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SOUTH MAIN STREET SIDEWALK

TYPE B RETAINING WALL STA 2+42 TO 4+25 AND STA 5+73 TO 7+70

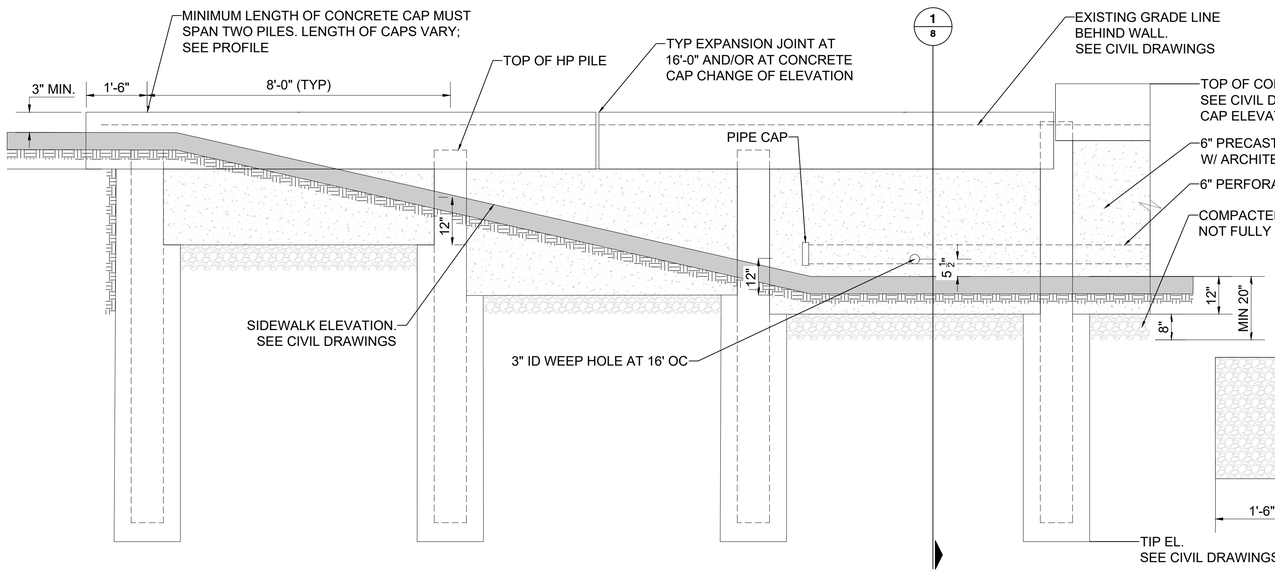
SCALE : VARIES

DRAWING No. 2020-029-7

SHEET No. 6 OF 38

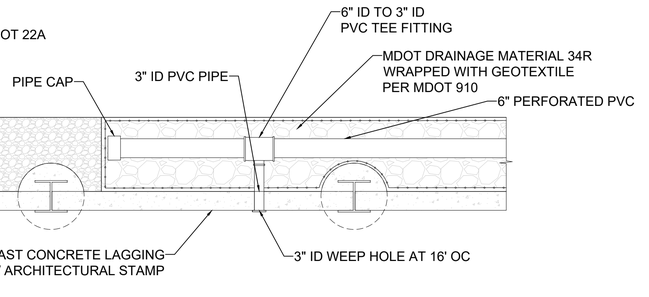
NOTES:

1. THE CONTRACTOR SHALL LIMIT EXCAVATION AS NECESSARY TO PROTECT ANY SITE FEATURES BEHIND THE WALL THAT ARE NOT MARKED FOR REMOVAL ON THE PLANS UTILIZING SHORING, BRACING, TRENCH BOXES, AND OTHER ENGINEER APPROVED METHODS OF TRENCH STABILIZATION. PAYMENT FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN PAYMENT FOR THE CORRESPONDING SOLDIER PILE RETAINING WALL PAY ITEM.



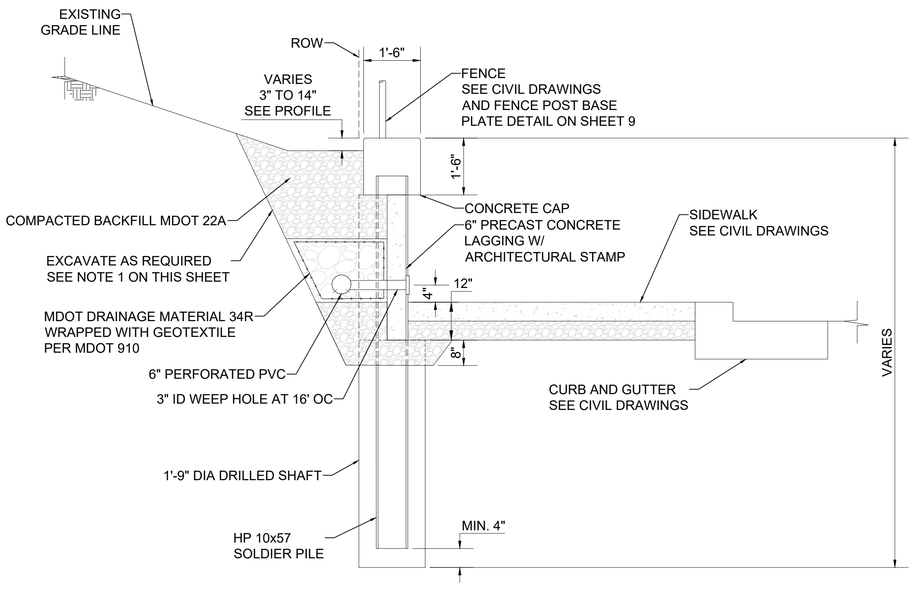
TYPE C SOLDIER PILE WALL ELEVATION

SCALE: 1:2



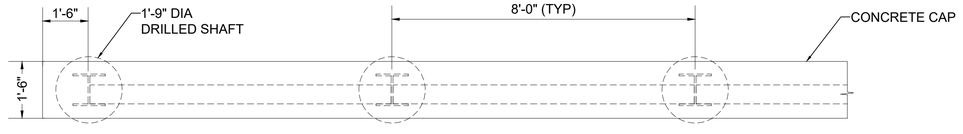
TYPE C SOLDIER PILE WALL SECTION

SCALE: 1:2



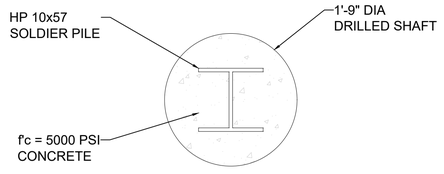
1/8 TYPE C SOLDIER PILE WALL SECTION

SCALE: 1:2



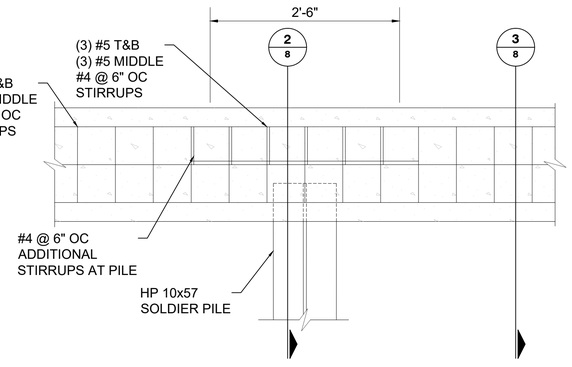
TYPE C SOLDIER PILE WALL PLAN

SCALE: 1:2



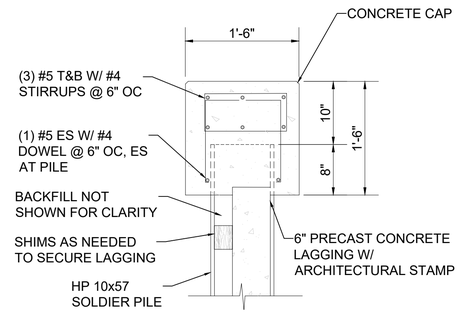
TYPE C DRILLED SHAFT

SCALE: 1:1



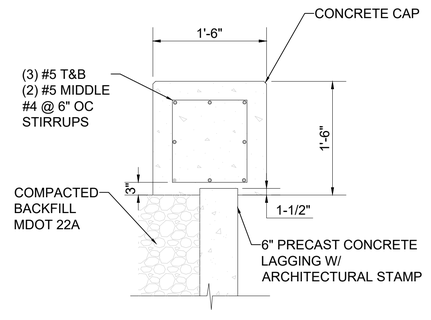
TYPE C CONCRETE CAP REINFORCEMENT

SCALE: 1:1



2/8 TYPE C CONCRETE CAP REINFORCEMENT SECTION

SCALE: 1:2



3/8 TYPE C CONCRETE CAP REINFORCEMENT SECTION

SCALE: 1:2

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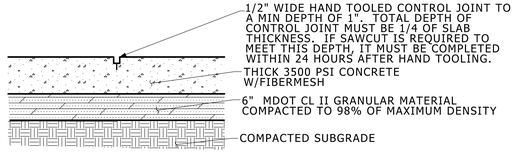
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SOUTH MAIN STREET SIDEWALK

TYPE C RETAINING WALL STA 11+13 TO 12+12 AND STA 17+00 TO 20+38

SCALE : VARIES

DRAWING No. 2020-029-8



DS_CONC, SIDEWALK, FIBERMESH, 4 IN. & DS_CONC, SIDEWALK, FIBERMESH, 8 IN.

NO SCALE

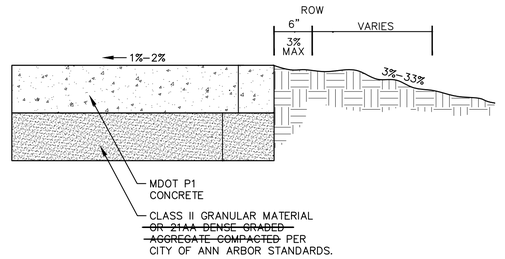
NOTES: EXPANSION JOINTS SHALL BE INSTALLED SUCH THAT NO SINGLE DIMENSION EXCEEDS 50 FT. AREA BETWEEN EXPANSION JOINTS NOT TO EXCEED 320 SQ.FT.

1/2" EXPANSION PAPER SHALL BE PLACED AT ALL LOCATIONS WHERE NEW SIDEWALK ABUTS CONCRETE CURB, EXISTING SIDEWALK, LIGHT POLE BASES AND RETAINING WALLS.

SNAP-CAP EXPANSION JOINT STRIPS CAN BE USED ON ALL EXPANSION JOINTS.

ALL EXPANSION JOINTS SHALL BE SEALED.

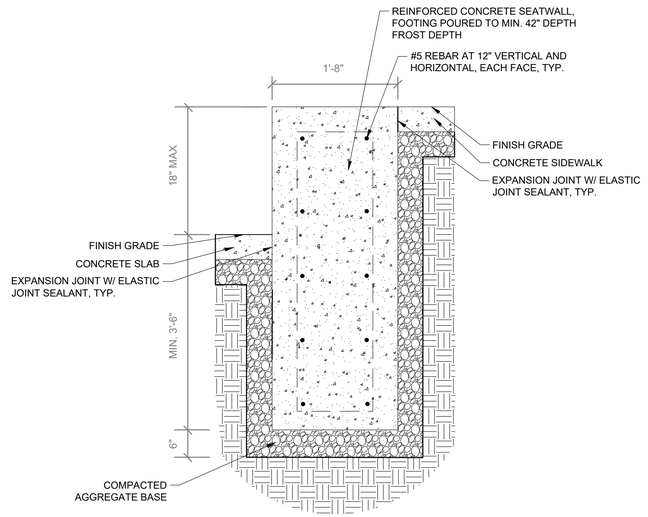
BROOM FINISH PARALLEL TO JOINTS AND PERPENDICULAR TO TRAFFIC (IF BROOMING PATTERN NOT SHOWN).



NOTES:

1. STANDARD SIDEWALK WIDTH SHALL BE 5'.
2. STANDARD SLAB LENGTH SHALL BE 5'.
3. MINIMUM SLAB LENGTH SHALL BE 3' AND MAXIMUM 7'.
4. MINIMUM SIDEWALK THICKNESS (T1) SHALL BE 4".
5. SIDEWALK THICKNESS (T1) SHALL BE INCREASED AT DRIVE APPROACHES TO 6" FOR SINGLE OR DUPLEX USES AND TO 8" FOR ALL OTHER USES.
6. BASE THICKNESS (T2) SHALL BE 4".
7. BASE THICKNESS (T2) SHALL BE INCREASED TO 6" AT DRIVE APPROACHES.
8. NATIVE MATERIAL IS ACCEPTABLE FOR SIDEWALK REPLACEMENT IF BASE IS STABLE AND FREE OF ORGANIC OR DELETERIOUS MATERIALS.
9. SIDEWALK RAMPS SHALL BE CONSTRUCTED AT LOCATIONS AS SHOWN ON THE PLANS AND SHALL COMPLY WITH THE REQUIREMENTS OF MDOT DETAIL R–28 (LATEST VERSION).
10. EXPANSION AND CONTRACTION JOINTS SHALL BE PROVIDED PER STANDARD DETAIL SD–R–10.

SIDEWALK CROSS SECTION SD-R-9



DS_ CIP RETAINING WALL

NOT TO SCALE

STRUCTURAL NOTES

1. ALL STRUCTURES SHALL BE DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES:
   A. MICHIGAN BUILDING CODE (2021)
   B. INTERNATIONAL BUILDING CODE (2021)
   C. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES - AMERICAN SOCIETY OF CIVIL ENGINEERS" ASCE 7 -16
   D. CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES - AMERICAN CONCRETE ASSOCIATION ACI 350 (2006)
2. WIND LOADS, PER ASCE 7-16 (RISK CATEGORY I)
   1. BASIC WIND SPEED - Vult=103 MPH
   2. EXPOSURE CATEGORY - C
   3. TOPOGRAPHIC FACTOR - Kzt = 1.0
3. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3500 PSI @ 28 DAYS UNLESS OTHERWISE NOTED
4. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
5. THE DETAILING, BENDING, AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI STANDARD 350-06/350R-06 CODE AND ACI DETAILING MANUAL, SP-66 (94). FIELD BENDING WILL NOT BE PERMITTED UNLESS APPROVED BY ENGINEER
6. THE LENGTH OF #4 LAP SPLICES SHALL BE 20" BY DEFAULT OR 29" FOR HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE OF CONCRETE CAST UNDERNEATH (UNLESS OTHERWISE INDICATED IN DRAWINGS).
7. CONCRETE COVER OVER PRIMARY REINFORCEMENT SHALL BE (2) INCHES MINIMUM, UNLESS NOTED OTHERWISE, AND (3) INCHES MINIMUM WHERE CAST AGAINST EARTH.
8. BOTTOM AND TOP REINFORCING BARS FOR ALL DISCONTINUOUS ENDS OF BEAMS AND SLABS SHALL HAVE HOOKS AND SPLICES CONFORMING TO ACI MANUAL OF STANDARD PRACTICE.
9. ALL ADHESIVE ANCHORING SYSTEMS FOR POST INSTALLED ANCHORS AND/OR REINFORCING DOWELS IN CONCRETE AND MASONRY SHALL BE "HIT-HY 200 ADHESIVE ANCHORING SYSTEM" BY HILTI AT SIZE AND SPACING INDICATED ON DRAWINGS (OR APPROVED EQUAL).
10. ALL POST-INSTALLED ANCHOR BOLTS INTO NEW OR EXISTING CONCRETE SHALL BE ASTM A316 STAINLESS STEEL THREADED ROD WITH STAINLESS STEEL WASHER AND NUT, UNO.

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

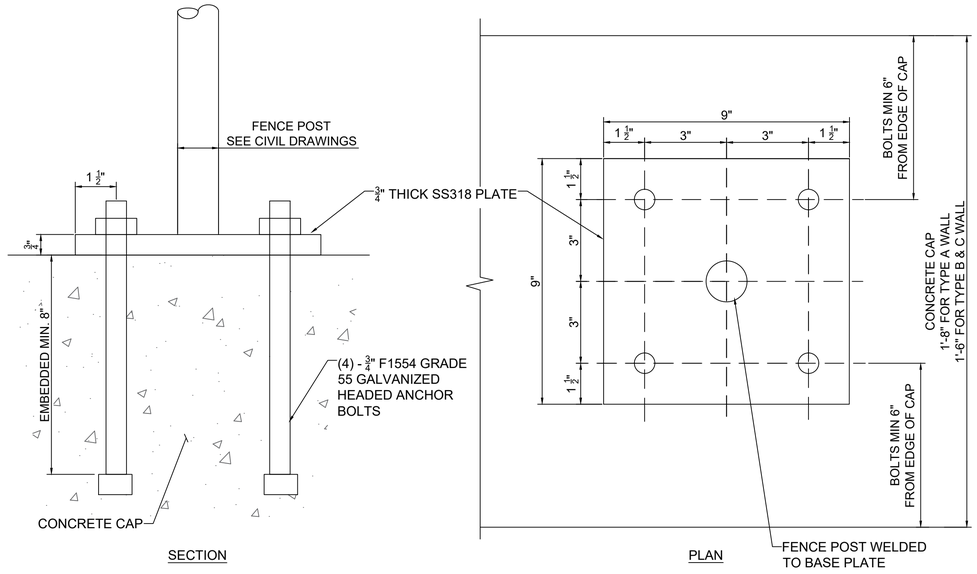
SOUTH MAIN STREET SIDEWALK PROJECT

DETAILS

SCALE PLAN: NTS

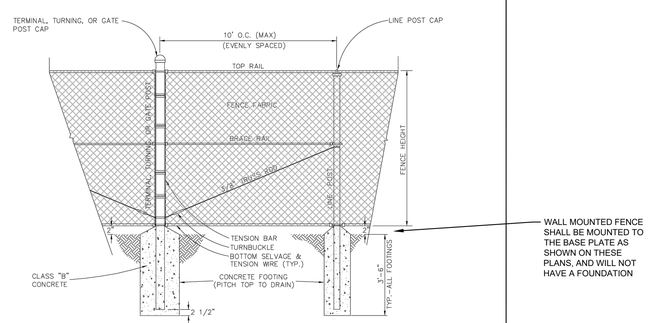
DRAWING No. 2020-029-8

SHEET No. 8 OF 38



FENCE POST BASE PLATE DETAIL

NOT TO SCALE



FENCE HEIGHT/SIZE REFERENCE CHART

	4' FENCE	6' FENCE	8' FENCE	12' FENCE
NOMINAL PIPE SIZES (WEIGHT)				
TERMINAL, TURNING, OR GATE POST	1 1/2" (2.72#/L.F.)	2 1/2" (5.79#/L.F.)	3 1/2" (9.11#/L.F.)	3 1/2" (9.11#/L.F.)
LINE POST	1 1/4" (2.27#/L.F.)	2" (3.65#/L.F.)	2" (3.65#/L.F.)	2" (3.65#/L.F.)
TOP RAIL	1" (1.68#/L.F.)	1 1/4" (2.27#/L.F.)	1 1/4" (2.27#/L.F.)	1 1/4" (2.27#/L.F.)
MIDDLE RAIL	NONE	NONE	1 1/4" (2.27#/L.F.)	1 1/4" (2.27#/L.F.)
BOTTOM RAIL	NONE	NONE	1 1/4" (2.27#/L.F.)	1 1/4" (2.27#/L.F.)
BRACE RAIL	1" (1.68#/L.F.)	1 1/4" (2.27#/L.F.)	1 1/4" (2.27#/L.F.)	1 1/4" (2.27#/L.F.)
FOOTING DIAMETERS				
TERMINAL, TURNING, OR GATE POST	12"	18"	18"	18"
LINE POST	9"	12"	12"	12"

NOTE:

1. FENCE FROM STA 24+00 TO STADIUM BLVD SHALL HAVE BLACK SCREENING FABRIC. FABRIC SHALL BE INCLUDED IN DS_FENCE, CHAIN LINK, 72-INCH, VINYL-COATED AND DS_FENCE, CHAIN LINK, 72-INCH, VINYL-COATED, WALL-MOUNTED PAY ITEM.

*PAID FOR AS DS_FENCE, CHAIN LINK, 72-INCH, VINYL-COATED AND DS_FENCE, CHAIN LINK, 72-INCH, VINYL-COATED, WALL-MOUNTED

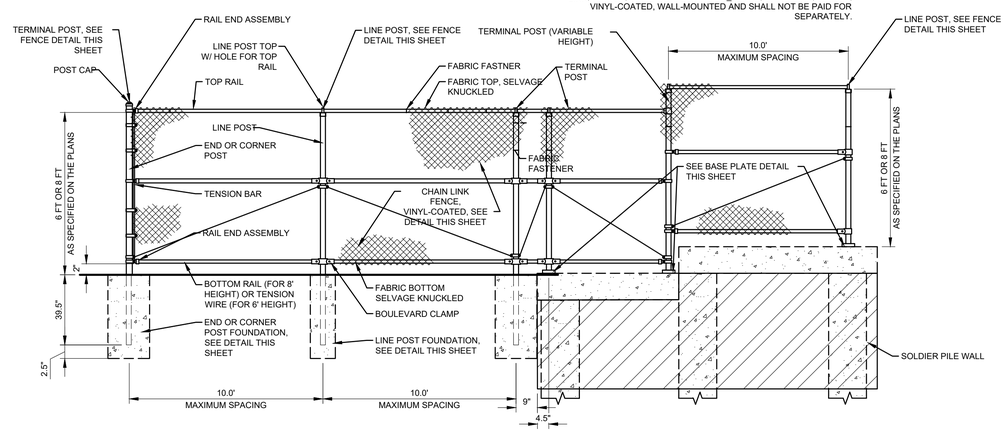
REVISIONS	REV. NO.	DR.BY	CH. BY	DATE

PUBLIC SERVICES DEPARTMENT
CITY OF ANN ARBOR

CHAIN LINK FENCE

DR. BY	NCF	CH. BY	CSS	DRAWING NO. SD-L-1
SCALE	NONE	DATE	1-31-94	
INCH				SHEET NO. ____ OF ____

NOTE: CONTRACTOR IS RESPONSIBLE TO REVIEW ALL TRANSITIONS (WALL LENGTHS, HEIGHT TRANSITIONS AND INSTALLATION TYPE TRANSITIONS) TO DETERMINE WHERE VARIABLE HEIGHT POSTS WILL BE REQUIRED. THIS SHALL BE INCLUDED IN THE COST OF DS_FENCE, CHAIN LINK, 72-INCH, VINYL-COATED AND DS_FENCE, CHAIN LINK, 72-INCH, VINYL-COATED, WALL-MOUNTED AND SHALL NOT BE PAID FOR SEPARATELY.



CHAIN LINK FENCE TO CHAIN LINK FENCE (WALL MOUNTED) TRANSITION

NOT TO SCALE

NOTE: THIS DETAIL IS TO BE USED IN THE CIRCUMSTANCE WHERE FENCE IS TO BE WALL MOUNTED. FOR ALL OTHER FENCE DETAILS, REFER TO THE ANN ARBOR FENCE DETAIL ON THIS SHEET.

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

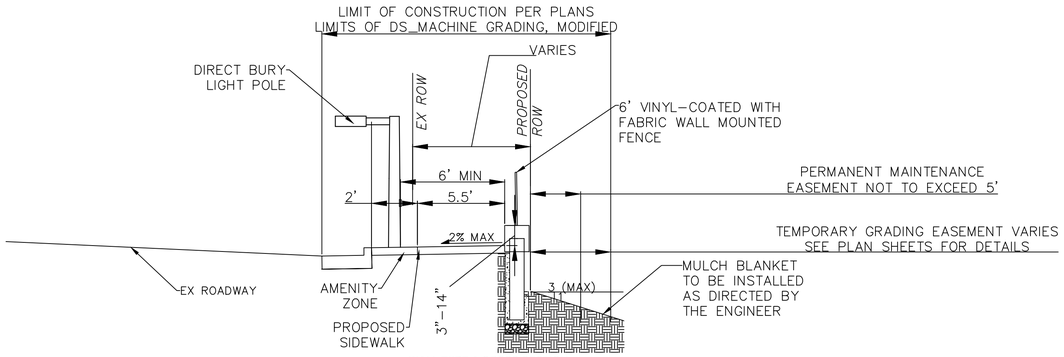
SOUTH MAIN STREET SIDEWALK PROJECT

FENCE DETAILS

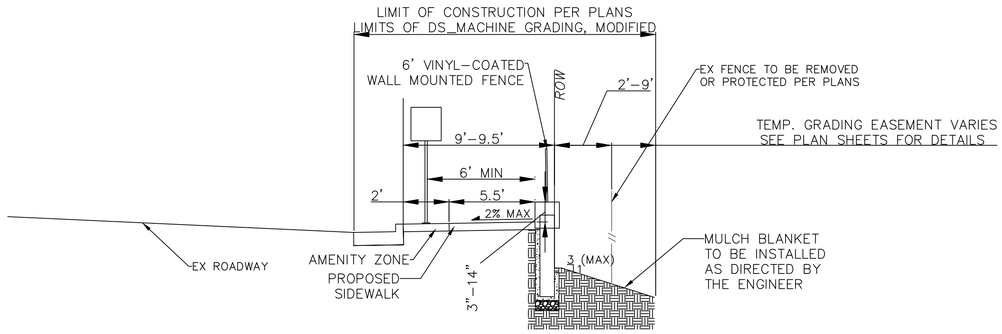
SCALE PLAN: NTS

DRAWING No. 2020-029-9

SHEET No. 9 OF 38



WALL TYPE A CROSS SECTION



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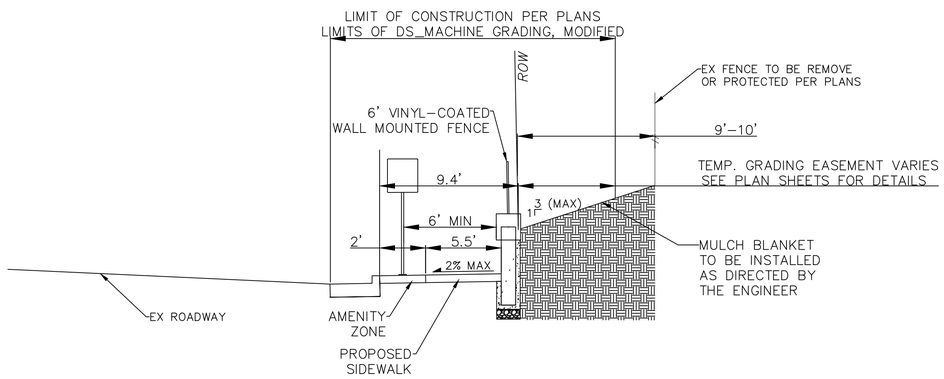
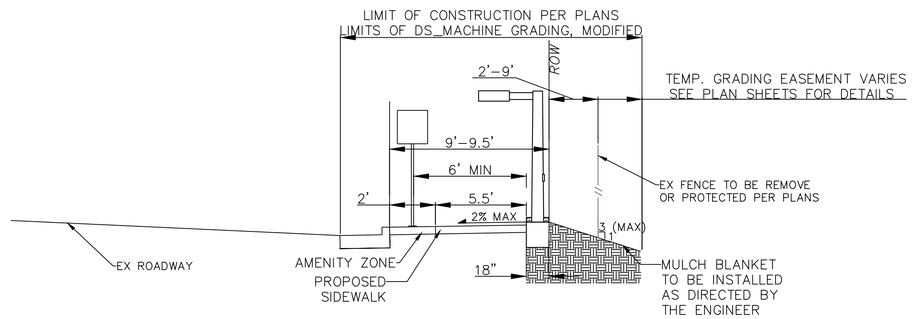


WALL TYPE C CROSS SECTION



TYPICAL CROSS SECTION

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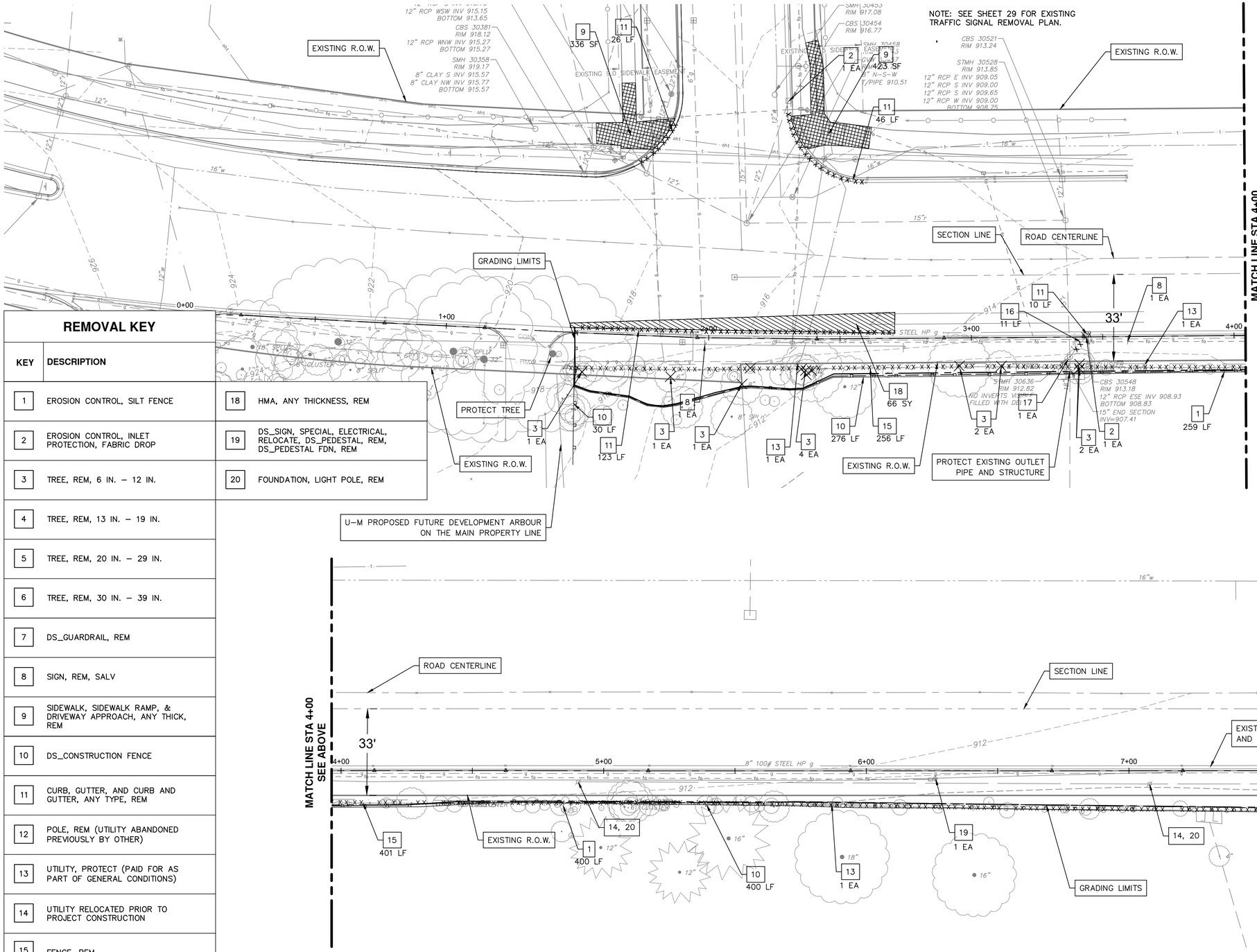
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SOUTH MAIN STREET SIDEWALK PROJECT

PROPOSED CROSS SECTIONS

SCALE : NTS

DRAWING No. 2020-029-10

SHEET No. 10 OF 38



REMOVAL KEY

KEY	DESCRIPTION
1	EROSION CONTROL, SILT FENCE
2	EROSION CONTROL, INLET PROTECTION, FABRIC DROP
3	TREE, REM, 6 IN. – 12 IN.
4	TREE, REM, 13 IN. – 19 IN.
5	TREE, REM, 20 IN. – 29 IN.
6	TREE, REM, 30 IN. – 39 IN.
7	DS_GUARDRAIL, REM
8	SIGN, REM, SALV
9	SIDEWALK, SIDEWALK RAMP, & DRIVEWAY APPROACH, ANY THICK, REM
10	DS_CONSTRUCTION FENCE
11	CURB, GUTTER, AND CURB AND GUTTER, ANY TYPE, REM
12	POLE, REM (UTILITY ABANDONED PREVIOUSLY BY OTHER)
13	UTILITY, PROTECT (PAID FOR AS PART OF GENERAL CONDITIONS)
14	UTILITY RELOCATED PRIOR TO PROJECT CONSTRUCTION
15	FENCE, REM
16	STORM SEWER PIPE, 12 IN. DIA., REM
17	STORM SEWER STRUCTURE, REM
18	HMA, ANY THICKNESS, REM
19	DS_SIGN, SPECIAL, ELECTRICAL, RELOCATE, DS_PEDESTAL, REM, DS_PEDESTAL FDN, REM
20	FOUNDATION, LIGHT POLE, REM

LEGEND

- PAVT, REM
- DRIVEWAY, REM
- SIDEWALK, REM
- SITE FEATURE AND UTILITY, REM
- TREE PROTECTION
- TREE, REM*
- SILT FENCE

NOTE:
- *THE CONTRACTOR SHALL REMOVE BRUSH, STUMPS, AND TREES WITH DIAMETERS SMALLER THAN 6 INCHES AS NEEDED FOR CONSTRUCTION OF THE SIDEWALK AND ASSOCIATED ITEMS. THIS SHALL BE INCLUDED AS PART OF PAYMENT FOR DS_MACHINE GRADING MODIFIED.
- EXCAVATION AND EARTHWORK TO ESTABLISH SUBBASE SHALL BE PAID FOR AS MACHINE GRADING

**NOTE: THE CONTRACTOR SHALL REMOVE TREES ONLY AS NEEDED FOR THE CONSTRUCTION OF THE SIDEWALK AND ASSOCIATED ITEMS. THE CONTRACTOR SHALL INVESTIGATE SITE CONDITIONS PRIOR TO TREE REMOVAL AND NOTIFY THE ENGINEER AND THE CITY OF ANN ARBOR IF ANY OF THE PROPOSED TREE REMOVALS SHOWN ON THE PLANS MAY BE PRESERVED. IF ANY TREES NEED TO BE REMOVED IN ADDITION TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR MAY ONLY DO SO WITH THE EXPRESSED CONSENT OF THE CITY OF ANN ARBOR.

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

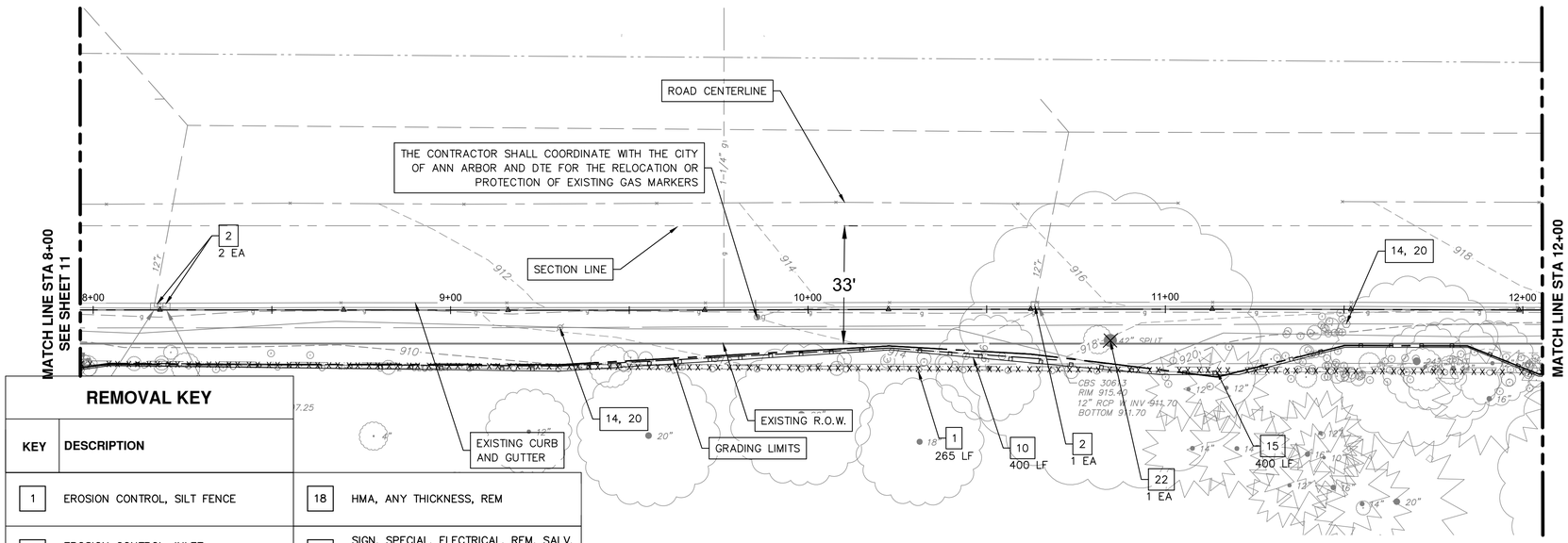
SOUTH MAIN STREET SIDEWALK PROJECT

REMOVAL AND SESC PLAN STA 0+00 TO STA 8+00

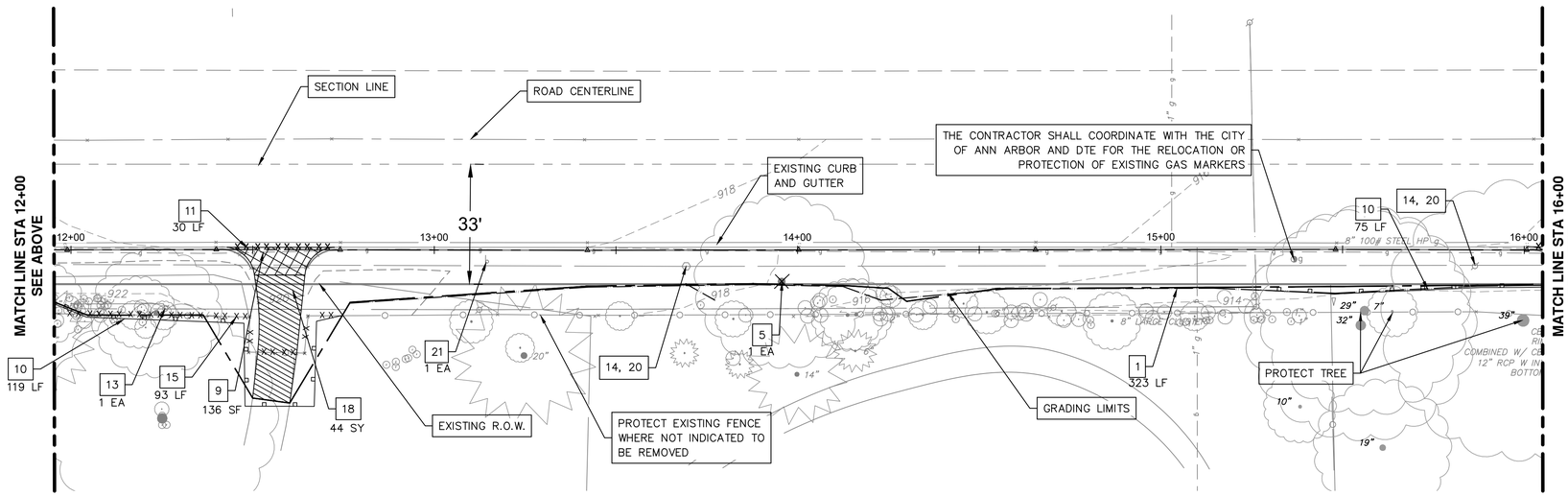
SCALE PLAN: 1"=20'

DRAWING No. 2020-029-11

SHEET No. 11 OF 38



REMOVAL KEY			
KEY	DESCRIPTION		
1	EROSION CONTROL, SILT FENCE	18	HMA, ANY THICKNESS, REM
2	EROSION CONTROL, INLET PROTECTION, FABRIC DROP	19	SIGN, SPECIAL, ELECTRICAL, REM, SALV, REINSTALL; PEDESTAL, REM; PEDESTAL FDN, REM
3	TREE, REM, 6 IN. – 12 IN.	20	FOUNDATION, LIGHT POLE, REM
4	TREE, REM, 13 IN. – 19 IN.	21	DS_SIGN, REM
5	TREE, REM, 20 IN. – 29 IN.	22	TREE, REM, 40 IN. AND LARGER
6	TREE, REM, 30 IN. – 39 IN.		
7	DS_GUARDRAIL, REM		
8	SIGN, REM, SALV		
9	SIDEWALK, SIDEWALK RAMP, & DRIVEWAY APPROACH, ANY THICK, REM		
10	DS_CONSTRUCTION FENCE		
11	CURB, GUTTER, AND CURB AND GUTTER, ANY TYPE, REM		
12	POLE, REM (UTILITY ABANDONED PREVIOUSLY BY OTHER)		
13	UTILITY, PROTECT (PAID FOR AS PART OF GENERAL CONDITIONS)		
14	UTILITY RELOCATED PRIOR TO PROJECT CONSTRUCTION		
15	FENCE, REM		
16	STORM SEWER PIPE, 12 IN. DIA., REM		
17	STORM SEWER STRUCTURE, REM		



**NOTE: THE CONTRACTOR SHALL REMOVE TREES ONLY AS NEEDED FOR THE CONSTRUCTION OF THE SIDEWALK AND ASSOCIATED ITEMS. THE CONTRACTOR SHALL INVESTIGATE SITE CONDITIONS PRIOR TO TREE REMOVAL AND NOTIFY THE ENGINEER AND THE CITY OF ANN ARBOR IF ANY OF THE PROPOSED TREE REMOVALS SHOWN ON THE PLANS MAY BE PRESERVED. IF ANY TREES NEED TO BE REMOVED IN ADDITION TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR MAY ONLY DO SO WITH THE EXPRESSED CONSENT OF THE CITY OF ANN ARBOR.

LEGEND

- DRIVEWAY, REM (CONCRETE)
- SIDEWALK, REM
- SITE FEATURE AND UTILITY, REM
- TREE PROTECTION
- TREE, REM*
- SILT FENCE

NOTE:
- *THE CONTRACTOR SHALL REMOVE BRUSH, STUMPS, AND TREES WITH DIAMETERS SMALLER THAN 6 INCHES AS NEEDED FOR CONSTRUCTION OF THE SIDEWALK AND ASSOCIATED ITEMS. THIS SHALL BE INCLUDED AS PART OF PAYMENT FOR DS_MACHINE GRADING MODIFIED.
- EXCAVATION AND EARTHWORK TO ESTABLISH SUBBASE SHALL BE PAID FOR AS MACHINE GRADING

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
(734) 794-6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

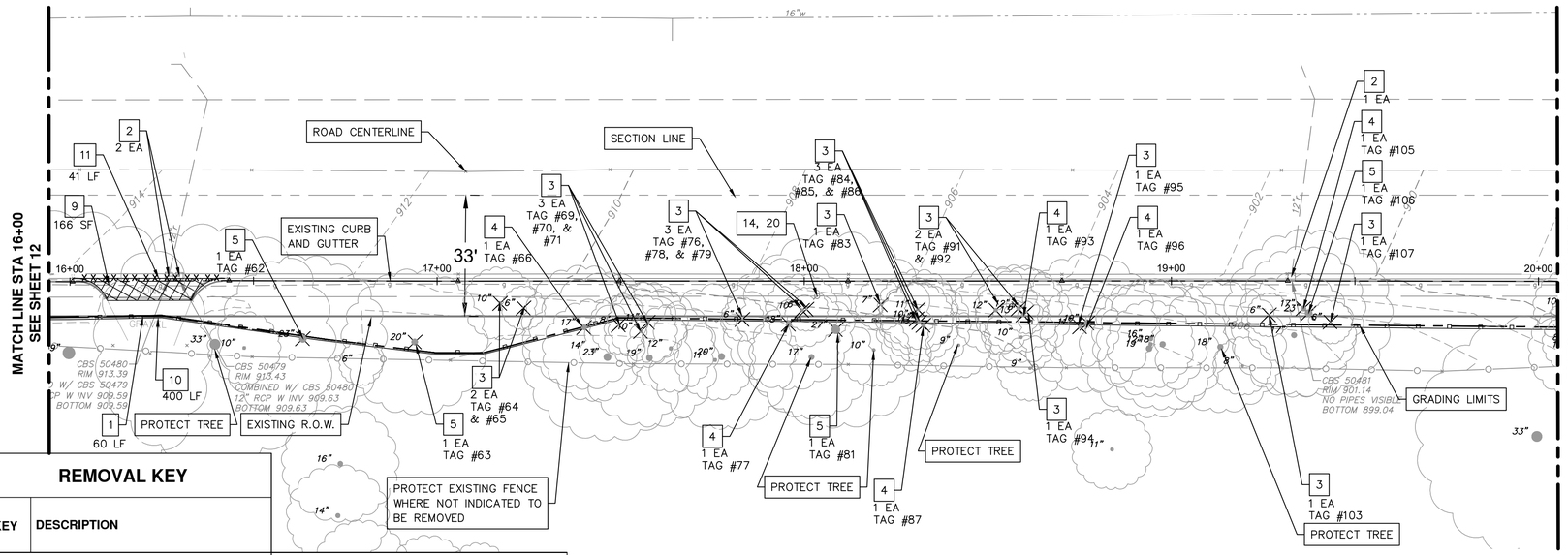
SOUTH MAIN STREET SIDEWALK PROJECT

REMOVAL AND SESC PLAN STA 8+00 TO STA 16+00

SCALE PLAN: 1"=20'

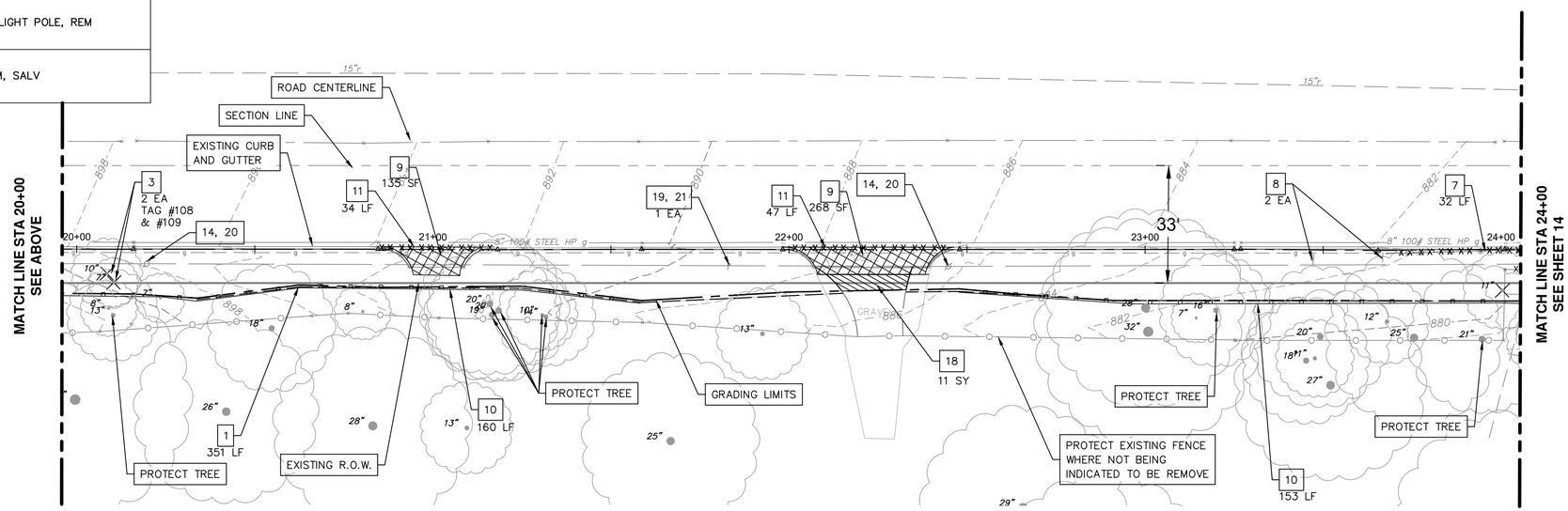
DRAWING No. 2020-029-12

SHEET No. 12 OF 38



REMOVAL KEY

KEY	DESCRIPTION	KEY	DESCRIPTION
1	EROSION CONTROL, SILT FENCE	17	STORM SEWER STRUCTURE, REM
2	EROSION CONTROL, INLET PROTECTION, FABRIC DROP	18	HMA, ANY THICKNESS, REM
3	TREE, REM, 6 IN. – 12 IN.	19	SIGN, SPECIAL, REM, SALV
4	TREE, REM, 13 IN. – 19 IN.	20	FOUNDATION, LIGHT POLE, REM
5	TREE, REM, 20 IN. – 29 IN.	21	DS_POST, REM, SALV
6	TREE, REM, 30 IN. – 39 IN.		
7	DS_GUARDRAIL, REM		
8	SIGN, REM, SALV		
9	SIDEWALK, SIDEWALK RAMP, & DRIVEWAY APPROACH, ANY THICK, REM		
10	DS_CONSTRUCTION FENCE		
11	CURB, GUTTER, AND CURB AND GUTTER, ANY TYPE, REM		
12	POLE, REM (UTILITY ABANDONED PREVIOUSLY BY OTHER)		
13	UTILITY, PROTECT (PAID FOR AS PART OF GENERAL CONDITIONS)		
14	UTILITY RELOCATED PRIOR TO PROJECT CONSTRUCTION		
15	FENCE, REM		
16	STORM SEWER PIPE, 12 IN. DIA., REM		



**NOTE: THE CONTRACTOR SHALL REMOVE TREES ONLY AS NEEDED FOR THE CONSTRUCTION OF THE SIDEWALK AND ASSOCIATED ITEMS. THE CONTRACTOR SHALL INVESTIGATE SITE CONDITIONS PRIOR TO TREE REMOVAL AND NOTIFY THE ENGINEER AND THE CITY OF ANN ARBOR IF ANY OF THE PROPOSED TREE REMOVALS SHOWN ON THE PLANS MAY BE PRESERVED. IF ANY TREES NEED TO BE REMOVED IN ADDITION TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR MAY ONLY DO SO WITH THE EXPRESSED CONSENT OF THE CITY OF ANN ARBOR.

LEGEND

- DRIVEWAY, REM (CONCRETE)
- SIDEWALK, REM
- SITE FEATURE AND UTILITY, REM
- TREE PROTECTION
- TREE, REM*
- SILT FENCE

NOTE:
- *THE CONTRACTOR SHALL REMOVE BRUSH, STUMPS, AND TREES WITH DIAMETERS SMALLER THAN 6 INCHES AS NEEDED FOR CONSTRUCTION OF THE SIDEWALK AND ASSOCIATED ITEMS. THIS SHALL BE INCLUDED AS PART OF PAYMENT FOR DS_MACHINE GRADING MODIFIED.
- EXCAVATION AND EARTHWORK TO ESTABLISH SUBBASE SHALL BE PAID FOR AS MACHINE GRADING

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 E. HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734.794.6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

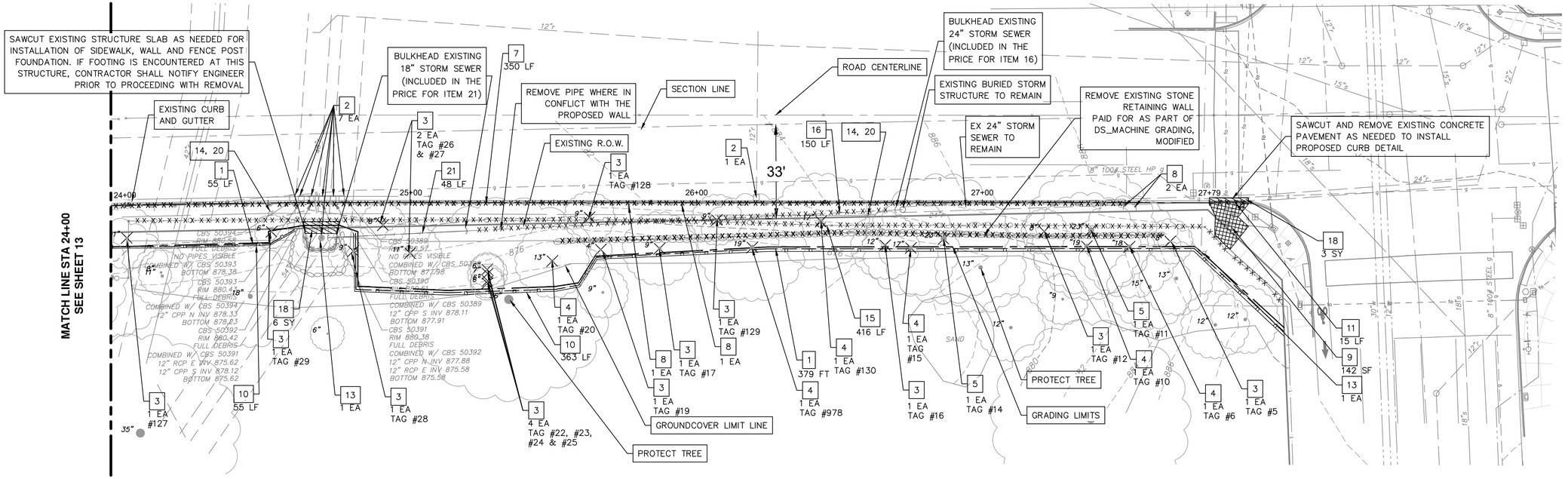
SOUTH MAIN STREET SIDEWALK PROJECT

REMOVAL AND SESC PLAN STA 16+00 TO STA 24+00

SCALE PLAN: 1"=20'

DRAWING No. 2020-029-13

SHEET No. 13 OF 38



REMOVAL KEY

KEY	DESCRIPTION
1	EROSION CONTROL, SILT FENCE
2	EROSION CONTROL, INLET PROTECTION, FABRIC DROP
3	TREE, REM, 6 IN. – 12 IN.
4	TREE, REM, 13 IN. – 19 IN.
5	TREE, REM, 20 IN. – 29 IN.
6	TREE, REM, 30 IN. – 39 IN.
7	DS_GUARDRAIL, REM
8	SIGN, REM, SALV
9	SIDEWALK, SIDEWALK RAMP, & DRIVEWAY APPROACH, ANY THICK, REM
10	DS_CONSTRUCTION FENCE
11	CURB, GUTTER, AND CURB AND GUTTER, ANY TYPE, REM
12	POLE, REM (UTILITY ABANDONED PREVIOUSLY BY OTHER)
13	UTILITY, PROTECT (PAID FOR AS PART OF GENERAL CONDITIONS)
14	UTILITY RELOCATED PRIOR TO PROJECT CONSTRUCTION
15	FENCE, REM
16	STORM SEWER PIPE, 18 IN. DIA., REM
17	STORM SEWER STRUCTURE, REM
18	HMA, ANY THICKNESS, REM
19	SIGN, SPECIAL, ELECTRICAL, REM, SALV, REINSTALL; PEDESTAL, REM; PEDESTAL FDN, REM
20	FOUNDATION, LIGHT POLE, REM
21	STORM SEWER PIPE, 18 IN. DIA., ABANDON

**NOTE: THE CONTRACTOR SHALL REMOVE TREES ONLY AS NEEDED FOR THE CONSTRUCTION OF THE SIDEWALK AND ASSOCIATED ITEMS. THE CONTRACTOR SHALL INVESTIGATE SITE CONDITIONS PRIOR TO TREE REMOVAL AND NOTIFY THE ENGINEER AND THE CITY OF ANN ARBOR IF ANY OF THE PROPOSED TREE REMOVALS SHOWN ON THE PLANS MAY BE PRESERVED. IF ANY TREES NEED TO BE REMOVED IN ADDITION TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR MAY ONLY DO SO WITH THE EXPRESSED CONSENT OF THE CITY OF ANN ARBOR. REFER TO TREE SURVEY AND REMOVAL SHEETS FOR MORE INFORMATION ON TREES LOCATED ADJACENT TO AND ON ANN ARBOR GOLF AND OUTING PROPERTY.

LEGEND

- DRIVEWAY, REM (CONCRETE)
- SIDEWALK, REM
- SITE FEATURE AND UTILITY, REM
- TREE PROTECTION
- TREE, REM*
- SILT FENCE

NOTE:
- *THE CONTRACTOR SHALL REMOVE BRUSH, STUMPS, AND TREES WITH DIAMETERS SMALLER THAN 6 INCHES AS NEEDED FOR CONSTRUCTION OF THE SIDEWALK AND ASSOCIATED ITEMS. THIS SHALL BE INCLUDED AS PART OF PAYMENT FOR DS_MACHINE GRADING MODIFIED.
- EXCAVATION AND EARTHWORK TO ESTABLISH SUBBASE SHALL BE PAID FOR AS MACHINE GRADING

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

CHECKED | DRAWN | DATE | DESCRIPTION | REV.

CITY OF ANN ARBOR
PUBLIC SERVICES
301 E. HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734.794.6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

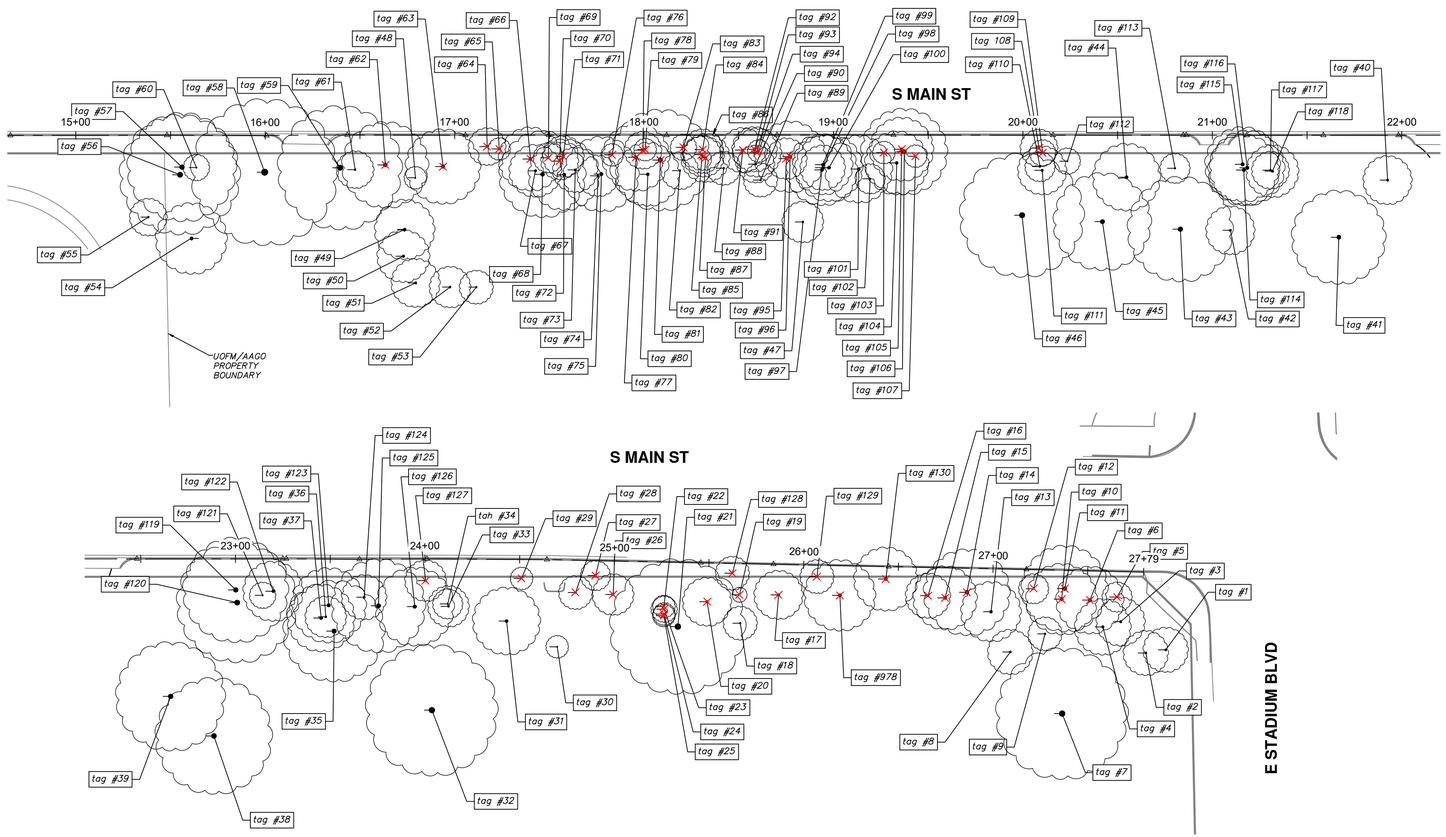
SOUTH MAIN STREET SIDEWALK PROJECT

REMOVAL AND SESC PLAN STA 24+00 TO STA 27+79

SCALE PLAN: 1"=20'

DRAWING No. 2020-029-14

SHEET No. 14 OF 38



TAG#	DBH	COMMON NAME	GENUS/SPECIES	STEMS	SCORE	LM	INV	EX ROW	AAGO	To be Rem.
1	12"	Blue Spruce	Picea pungens						X	
2	12"	Blue Spruce	Picea pungens						X	
3	13"	Blue Spruce	Picea pungens						X	
4	15"	Blue Spruce	Picea pungens						X	
5	8"	Redbud	Cercis canadensis		21	X			X	X
6	18"	Tree-of-heaven	Ailanthus altissima				X		X	X
7	35"	Honey Locust	Gleditsia triacanthos		18	X			X	
8	12"	Ginko	Ginko biloba		22	X			X	
9	9"	Ginko	Ginko biloba						X	
10	19"	Tree-of-heaven	Ailanthus altissima				X		X	X
11	23"	Siberian Elm	Ulmus pumila	twin			X		X	X
12	8"	American Elm	Ulmus americana	twin					X	X
13	13"	Ginko	Ginko biloba		21	X			X	
14	23"	Tree-of-heaven	Ailanthus altissima				X		X	X
15	17"	Hawthorn	Crataegus		18	X			X	X
16	12"	Hawthorn	Crataegus	twin	18	X			X	X
17	13"	Hawthorn	Crataegus	twin	19	X			X	X
18	9"	Crab Apple	Malus coronaria						X	
19	4"	Buckthorn	Rhamnus cathartica	quint			X		X	X
20	13"	American Elm	Ulmus americana						X	X
21	36"	Bur Oak	Quercus macrocarpa		20	X			X	
22	6"	Dogwood	Cornus florida						X	X
23	7"	Dogwood	Cornus florida						X	X
24	6"	Dogwood	Cornus florida						X	X
25	6"	Dogwood	Cornus florida						X	X
26	11"	Box Elder	Acer negundo						X	X
27	8"	Box Elder	Acer negundo					X		X
28	9"	Crab Apple	Malus coronaria						X	X
29	6"	Buckthorn	Rhamnus cathartica	twin			X		X	X
30	6"	Red Maple	Acer rubrum						X	
31	18"	Norway Maple	Acer platanoides				X		X	
32	35"	Silver Maple	Acer saccharinum		21	X			X	
33	11"	Hawthorn	Crataegus						X	
34	8"	Hawthorn	Crataegus						X	
35	27"	American Elm	Ulmus americana		20	X			X	
36	11"	American Elm	Ulmus americana						X	
37	18"	American Elm	Ulmus americana		18	X			X	
38	31"	Red Oak	Quercus rubra		21	X			X	
39	29"	Red Oak	Quercus rubra		21	X			X	
40	13"	Tree-of-heaven	Ailanthus altissima				X		X	
41	25"	Red Oak	Quercus rubra		20	X			X	
42	13"	Blue Spruce	Picea pungens						X	
43	28"	Honey Locust	Gleditsia triacanthos		21	X			X	

TAG#	DBH	COMMON NAME	GENUS/SPECIES	STEMS	SCORE	LM	INV	EX ROW	AAGO	To be Rem.
44	18"	Linden	Tilia americana		17	X			X	
45	26"	Norway Maple	Acer platanoides				X		X	
46	33"	Silver Maple	Acer saccharinum		21	X			X	
47	11"	Crab Apple	Malus coronaria						X	
48	6"	White Mulberry	Morus alba				X		X	
49	16"	Blue Spruce	Picea pungens						X	
50	14"	Blue Spruce	Picea pungens						X	
51	13"	Blue Spruce	Picea pungens						X	
52	11"	Blue Spruce	Picea pungens						X	
53	9"	Blue Spruce	Picea pungens						X	
54	19"	Black Pine	Pinus nigra				X		X	
55	10"	Crab Apple	Malus coronaria						X	
56	32"	Siberian Elm	Ulmus pumila				X		X	
57	29"	Siberian Elm	Ulmus pumila				X		X	
58	39"	Black Walnut	Juglans nigra		20	X			X	
59	33"	American Elm	Ulmus americana		21	X			X	
60	7"	American Elm	Ulmus americana						X	
61	10"	Linden	Tilia americana						X	
62	23"	Linden	Tilia americana		18	X			X	X
63	20"	Siberian Elm	Ulmus pumila				X		X	X
64	10"	Siberian Elm	Ulmus pumila				X	X		X
65	6"	Siberian Elm	Ulmus pumila				X	X		X
66	17"	American Elm	Ulmus americana						X	X
67	14"	Pignut Hickory	Carya glabra						X	
68	23"	Black Walnut	Juglans nigra		19	X			X	
69	8"	Red Elm	Ulmus rubra						X	X
70	10"	Red Elm	Ulmus rubra						X	X
71	11"	Red Elm	Ulmus rubra						X	X
72	19"	Black Walnut	Juglans nigra		21	X			X	
73	12"	Norway Maple	Acer platanoides				X		X	
74	11"	Black Walnut	Juglans nigra						X	
75	20"	Black Walnut	Juglans nigra		19	X			X	
76	6"	Linden	Tilia americana						X	X
77	18"	American Elm	Ulmus americana		21	X			X	X
78	10"	American Elm	Ulmus americana					X		X
79	6"	American Elm	Ulmus americana					X		X
80	17"	Black Walnut	Juglans nigra						X	
81	27"	Siberian Elm	Ulmus pumila				X		X	X
82	10"	Black Walnut	Juglans nigra						X	
83	7"	Siberian Elm	Ulmus pumila				X	X		X
84	11"	Red Elm	Ulmus rubra					X		X
85	10"	Red Elm	Ulmus rubra						X	X
86	11"	Red Elm	Ulmus rubra						X	X

TAG#	DBH	COMMON NAME	GENUS/SPECIES	STEMS	SCORE	LM	INV	EX ROW	AAGO	To be Rem.
87	13"	Red Elm	Ulmus rubra						X	X
88	9"	Dogwood	Cornus florida			X			X	
89	9"	Linden	Tilia americana						X	
90	10"	Black Walnut	Juglans nigra						X	
91	12"	Red Elm	Ulmus rubra					X		X
92	12"	Red Elm	Ulmus rubra					X		X
93	13"	Red Elm	Ulmus rubra					X		X
94	6"	Red Elm	Ulmus rubra					X		X
95	11"	Linden	Tilia americana						X	X
96	19"	Red Elm	Ulmus rubra		20	X			X	X
97	19"	Linden	Tilia americana		21	X			X	
98	12"	Linden	Tilia americana						X	
99	16"	Linden	Tilia americana						X	
100	18"	Linden	Tilia americana		17	X			X	
101	18"	Linden	Tilia americana		21	X			X	
102	8"	Norway Maple	Acer platanoides				X		X	
103	6"	Siberian Elm	Ulmus pumila				X	X		X
104	17"	Linden	Tilia americana						X	
105	17"	Linden	Tilia americana					X		X
106	23"	Linden	Tilia americana		21	X		X		X
107	6"	Red Elm	Ulmus rubra						X	X
108	10"	Red Elm	Ulmus rubra					X		X
109	7"	American Elm	Ulmus americana					X		X
110	8"	Hawthorn	Crataegus						X	
111	13"	Hawthorn	Crataegus		21	X			X	
112	7"	Norway Maple	Acer platanoides				X		X	
113	8"	Linden	Tilia americana						X	
114	19"	Linden	Tilia americana		18	X			X	
115	20"	Linden	Tilia americana		15	X			X	
116	20"	Linden	Tilia americana		19	X			X	
117	10"	Linden	Tilia americana						X	
118	14"	Linden	Tilia americana						X	
119	28"	White Mulberry	Morus alba					X	X	
120	32"	White Mulberry	Morus alba					X	X	
121	7"	American Elm	Ulmus americana						X	
122	16"	American Elm	Ulmus americana	twin	dead				X	
123	20"	Bitternut Hickory	Carya cordiformis		21	X			X	
124	12"	American Elm	Ulmus americana						X	
125	25"	Box Elder	Acer negundo		20	X			X	
126	21"	Red Elm	Ulmus rubra	twin	17	X			X	
127	11"	Box Elder	Acer negundo						X	X
128	9"	Common Apple	Malus pumila					X		X
129	9"	American Elm	Ulmus americana					X		X
130	17"	Tree-of-heaven	Ailanthus altissima				X		X	X
978	19"	Crab Apple	Malus coronaria						X	X

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 E HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SOUTH MAIN STREET SIDEWALK PROJECT

TREE REMOVAL

SCALE : 1"=40'

DRAWING No. 2020-029-15

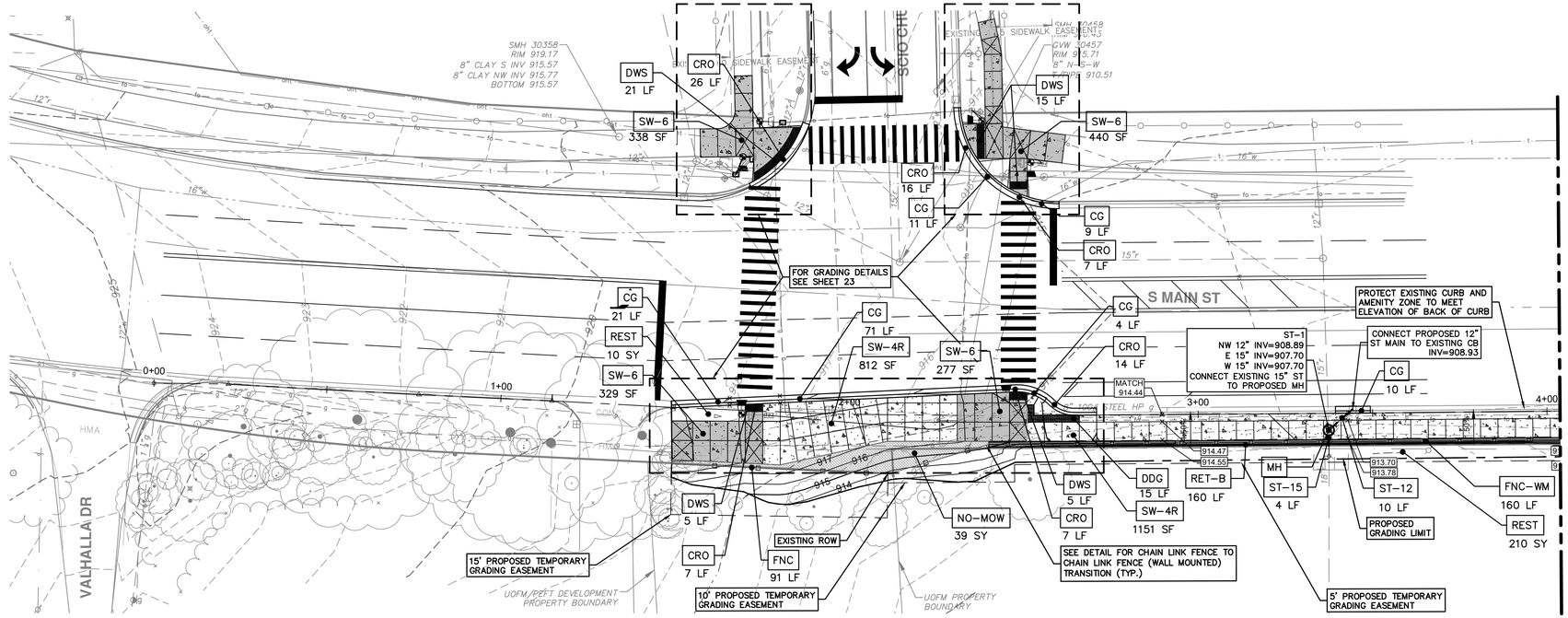
SHEET No. 15 OF 38

CONSTRUCTION KEY

KEY	DESCRIPTION
RET–A	DS_SOLDIER PILE RETAINING WALL, TYPE A
RET–B	DS_SOLDIER PILE RETAINING WALL, TYPE B
RET–C	DS_SOLDIER PILE RETAINING WALL, TYPE C
REST	TURF RESTORATION
SW–4	CONC, SIDEWALK, 4 IN.
SW–6	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN.
SW–4R	DS_CONC, SIDEWALK, FIBERMESH, 4 IN.
CG	CONC, CURB, OR CURB & GUTTER, ALL TYPES
DWS	DETECTABLE WARNING SURFACE
DW–M	CONC, DRIVEWAY OPENING, TYPE M
HP	HAND PATCHING
FNC	DS_FENCE, CHAIN LINK, 72 INCH, VINYL–COATED
FNC–WM	DS_FENCE, CHAIN LINK, 72 INCH, VINYL–COATED, WALL MOUNTED
MH	STORM MANHOLE, 48 IN. DIA., (0–8' DEEP)
ST–12	12 IN., CI IV RCP STORM SEWER, SD–TD–1
ST–15	15 IN., CI IV RCP STORM SEWER, SD–TD–1
CRO	DS_CURB RAMP OPENING, CONC
DDG	DS_TACTILE DIRECTIONAL INDICATOR (ARMOR–TILE PRODUCT ADD–C504–2–YW)
NO–MOW	TURF RESTORATION (NO MOW)

CONTRACTOR SHALL NOTE THE PRESENCE OF OVERHEAD UTILITIES IN THE FOLLOWING AREAS:

OVERHEAD UTILITY		
TYPE	START STA	END STA
ELECTRIC	—	—
COMMUNICATIONS	0+00	4+00

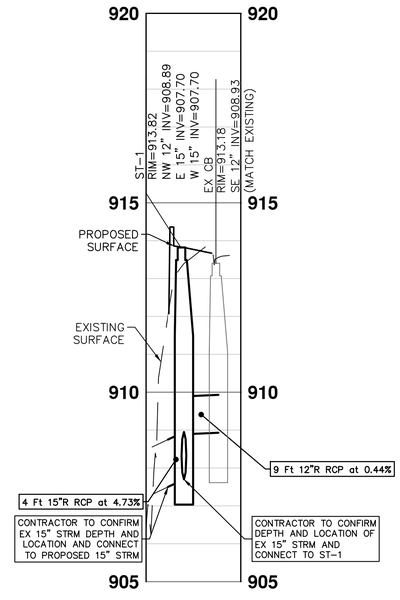


LEGEND

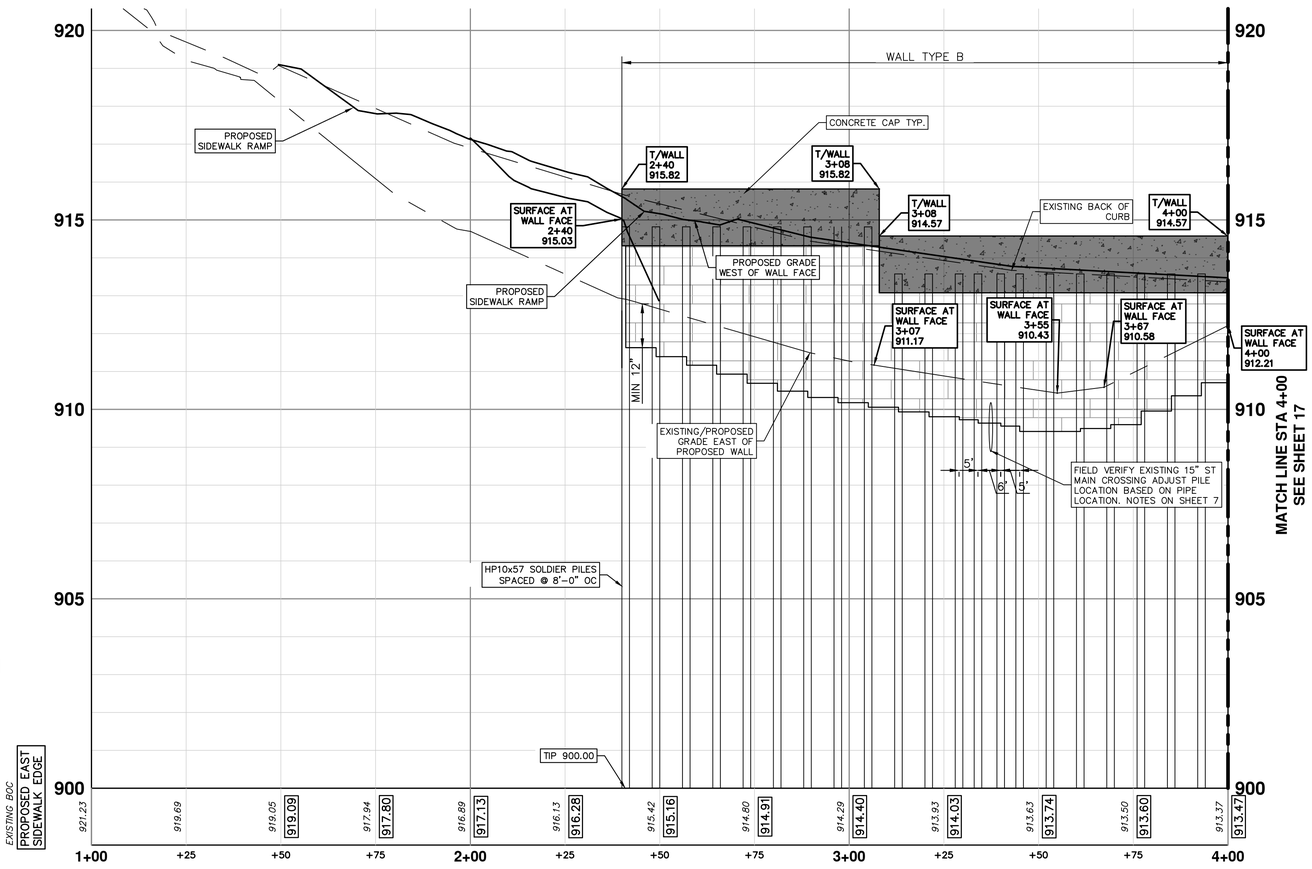
- 4–INCH SIDEWALK
- 6–INCH CONCRETE SIDEWALK, RAMP, DRIVE APPROACH
- 8–INCH FIBER REINFORCED CONCRETE SIDEWALK OR RAMP

NOTE

- ALL SIDEWALK BETWEEN STATIONS 01+40 & 15+47 ON THE EAST SIDE OF S MAIN ST SHALL BE FIBER REINFORCED PER SPECS
- LIMITS OF SIDEWALK GRADING EXTEND FROM EDGE OF METAL OF EXISTING CURB OR NEW CURB TO THE ROW, EDGE OF EXISTING SIDEWALK EASEMENT, EDGE OF TEMPORARY GRADING PERMIT OR PROPOSED PERMANENT EASEMENT(WHICHEVER IS WIDER) FOR THE ENTIRE LENGTH OF THE SIDEWALK, INCLUDING QUADRANTS ON THE WEST SIDE OF THE SCIO/MAIN INTERSECTION.
- CONTRACTOR TO COORDINATE WITH THE UNIVERSITY OF MICHIGAN TO DETERMINE FENCE REMOVAL AND INSTALLATION BETWEEN STATIONS 1+48–15+47.



STORM WATER PROFILE



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SOUTH MAIN STREET SIDEWALK PROJECT

PROPOSED SIDEWALK PLAN AND PROFILE STA 0+00 TO STA 4+00

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

DRAWING No. 2020-029-16

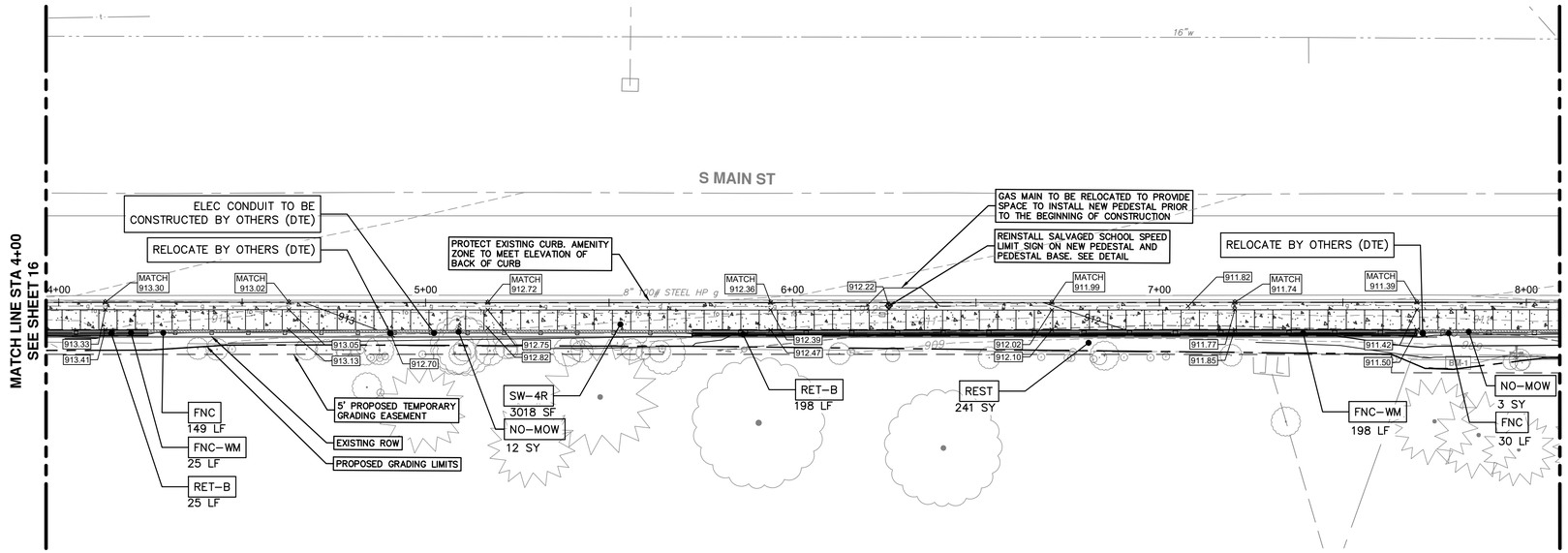
SHEET No. 16 OF 38

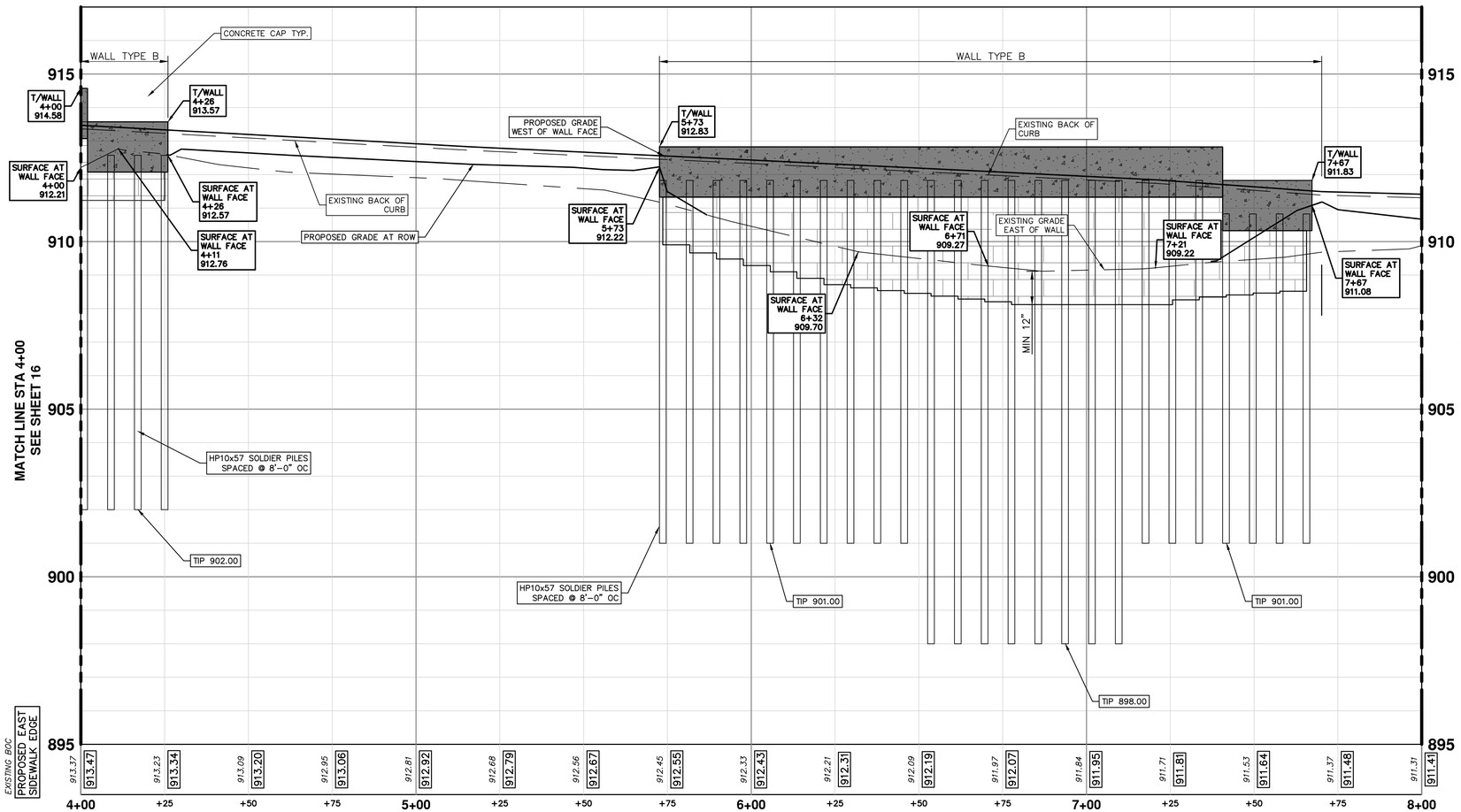
CONSTRUCTION KEY

KEY	DESCRIPTION
RET–A	DS_SOLDIER PILE RETAINING WALL, TYPE A
RET–B	DS_SOLDIER PILE RETAINING WALL, TYPE B
RET–C	DS_SOLDIER PILE RETAINING WALL, TYPE C
REST	TURF RESTORATION
SW–4	CONC, SIDEWALK, 4 IN.
SW–6	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN.
SW–4R	DS_CONC, SIDEWALK, FIBERMESH, 4 IN.
CG	CONC, CURB, OR CURB & GUTTER, ALL TYPES
DWS	DETECTABLE WARNING SURFACE
DW–M	CONC, DRIVEWAY OPENING, TYPE M
HP	HAND PATCHING
FNC	DS_FENCE, CHAIN LINK, 72 INCH, VINYL–COATED
FNC–WM	DS_FENCE, CHAIN LINK, 72 INCH, VINYL–COATED, WALL MOUNTED
GUY–A	DS_GUY ANCHOR, REM
NO–MOW	TURF RESTORATION (NO MOW)

CONTRACTOR SHALL NOTE THE PRESENCE OF OVERHEAD UTILITIES IN THE FOLLOWING AREAS:

OVERHEAD UTILITY		
TYPE	START STA	END STA
ELECTRIC	–	–
COMMUNICATIONS	4+00	8+00





LEGEND

- 4–INCH SIDEWALK
- 6–INCH CONCRETE SIDEWALK, RAMP, DRIVE APPROACH
- 8–INCH FIBER REINFORCED CONCRETE SIDEWALK OR RAMP

NOTE

- ALL SIDEWALK BETWEEN STATIONS 01+40 & 15+47 ON THE EAST SIDE OF S MAIN ST SHALL BE FIBER REINFORCED PER SPECS
- LIMITS OF SIDEWALK GRADING EXTEND FROM EDGE OF METAL OF EXISTING CURB OR NEW CURB TO THE ROW, EDGE OF EXISTING SIDEWALK EASEMENT, EDGE OF TEMPORARY GRADING PERMIT OR PROPOSED PERMANENT EASEMENT(WHICHEVER IS WIDER) FOR THE ENTIRE LENGTH OF THE SIDEWALK, INCLUDING QUADRANTS ON THE WEST SIDE OF THE SCIO/MAIN INTERSECTION.
- CONTRACTOR TO COORDINATE WITH THE UNIVERSITY OF MICHIGAN TO DETERMINE FENCE REMOVAL AND INSTALLATION BETWEEN STATIONS 1+48–15+47.

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 E HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734.794.6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SOUTH MAIN STREET SIDEWALK PROJECT

PROPOSED SIDEWALK PLAN AND PROFILE STA 4+00 TO STA 8+00

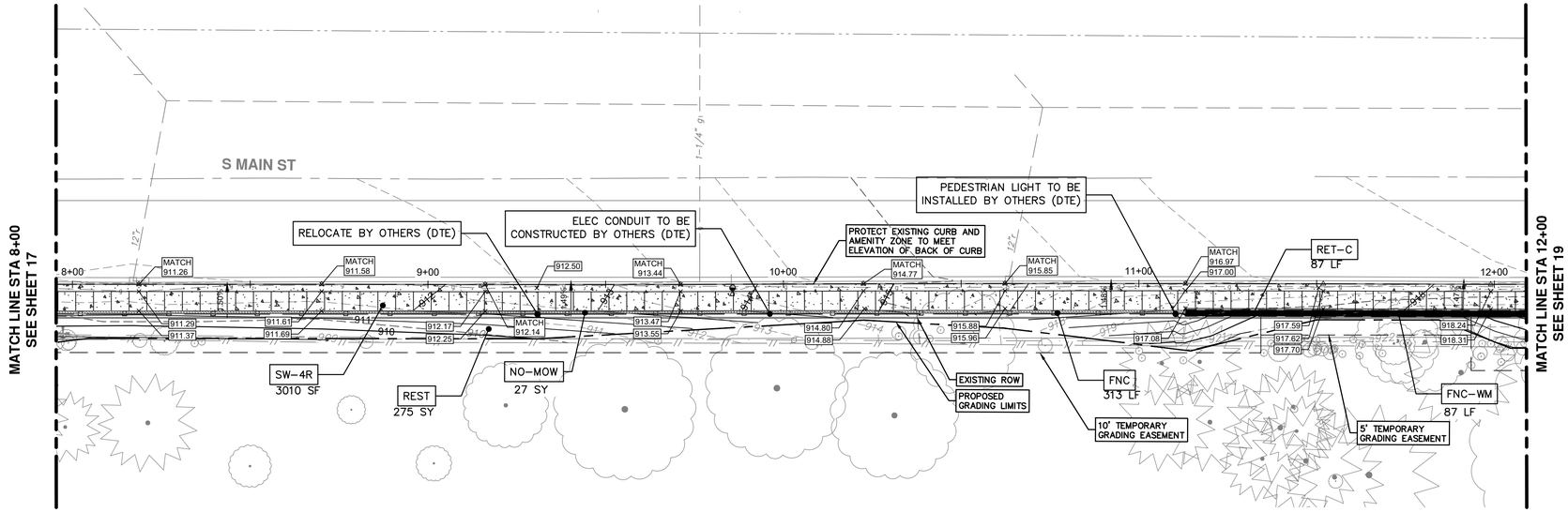
SCALE PLAN: 1"=20' PROFILE: 1" = 2'

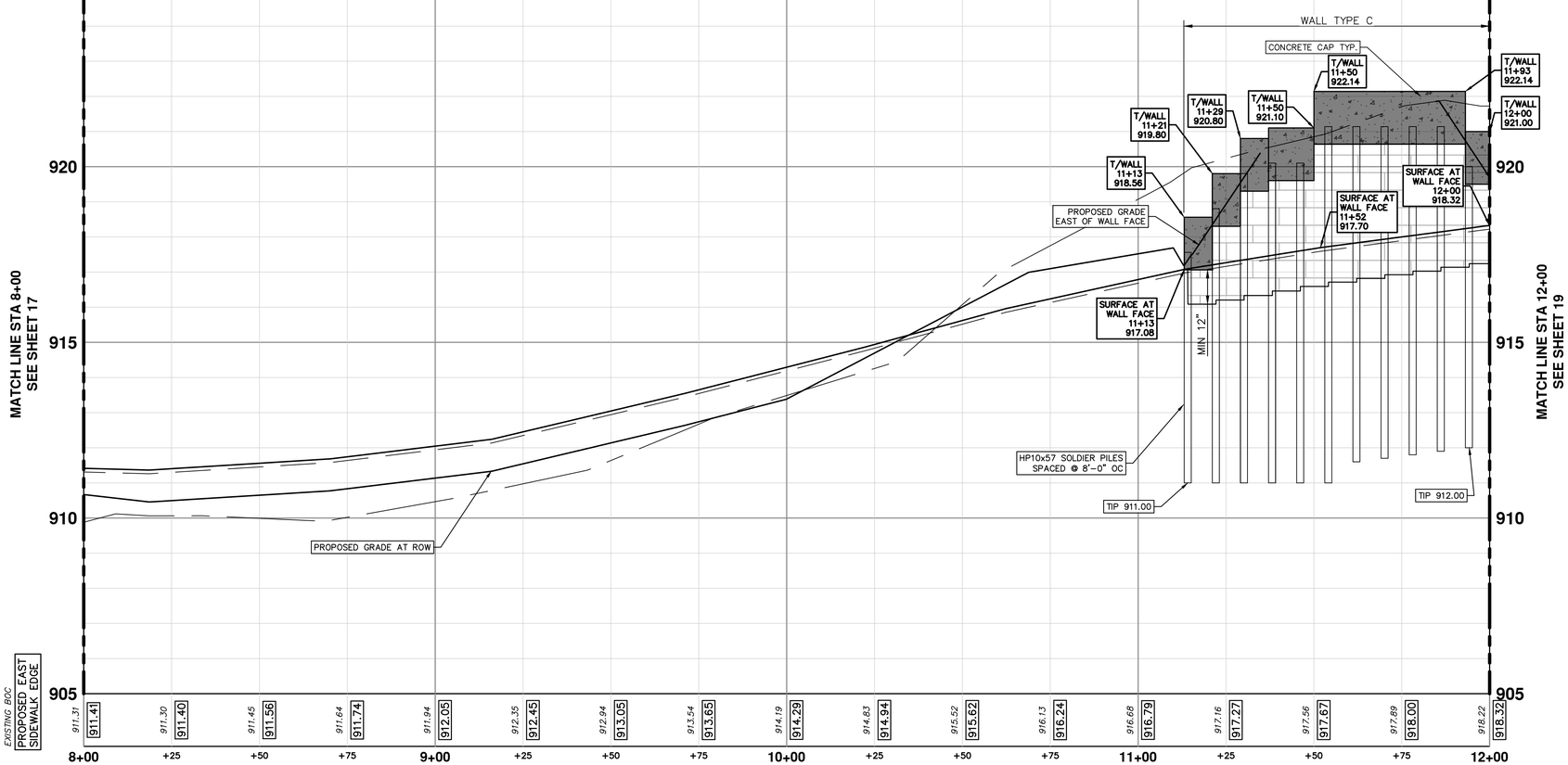
DRAWING No. 2020-029-17

SHEET No. 17 OF 38

CONSTRUCTION KEY

KEY	DESCRIPTION
RET–A	DS_SOLDIER PILE RETAINING WALL, TYPE A
RET–B	DS_SOLDIER PILE RETAINING WALL, TYPE B
RET–C	DS_SOLDIER PILE RETAINING WALL, TYPE C
REST	TURF RESTORATION
SW–4	CONC, SIDEWALK, 4 IN.
SW–6	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN.
SW–4R	DS_CONC, SIDEWALK, FIBERMESH, 4 IN.
CG	CONC, CURB, OR CURB & GUTTER, ALL TYPES
DWS	DETECTABLE WARNING SURFACE
DW–M	CONC, DRIVEWAY OPENING, TYPE M
HP	HAND PATCHING
FNC	DS_FENCE, CHAIN LINK, 72 INCH, VINYL–COATED
FNC–WM	DS_FENCE, CHAIN LINK, 72 INCH, VINYL–COATED, WALL MOUNTED
GUY–A	DS_GUY ANCHOR, REM
NO–MOW	TURF RESTORATION (NO MOW)





LEGEND

- 4–INCH SIDEWALK
- 6–INCH CONCRETE SIDEWALK, RAMP, DRIVE APPROACH
- 8–INCH FIBER REINFORCED CONCRETE SIDEWALK OR RAMP

NOTE

- ALL SIDEWALK BETWEEN STATIONS 01+40 & 15+47 ON THE EAST SIDE OF S MAIN ST SHALL BE FIBER REINFORCED PER SPECS
- LIMITS OF SIDEWALK GRADING EXTEND FROM EDGE OF METAL OF EXISTING CURB OR NEW CURB TO THE ROW, EDGE OF EXISTING SIDEWALK EASEMENT, EDGE OF TEMPORARY GRADING PERMIT OR PROPOSED PERMANENT EASEMENT(WHICHEVER IS WIDER) FOR THE ENTIRE LENGTH OF THE SIDEWALK, INCLUDING QUADRANTS ON THE WEST SIDE OF THE SCIO/MAIN INTERSECTION.
- CONTRACTOR TO COORDINATE WITH THE UNIVERSITY OF MICHIGAN TO DETERMINE FENCE REMOVAL AND INSTALLATION BETWEEN STATIONS 1+48–15+47.

CONTRACTOR SHALL NOTE THE PRESENCE OF OVERHEAD UTILITIES IN THE FOLLOWING AREAS:

OVERHEAD UTILITY		
TYPE	START STA	END STA
ELECTRIC	–	–
COMMUNICATIONS	8+00	12+00

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

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734.794.6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SOUTH MAIN STREET SIDEWALK PROJECT

PROPOSED SIDEWALK PLAN AND PROFILE STA 8+00 TO STA 12+00

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

DRAWING No. 2020-029-18

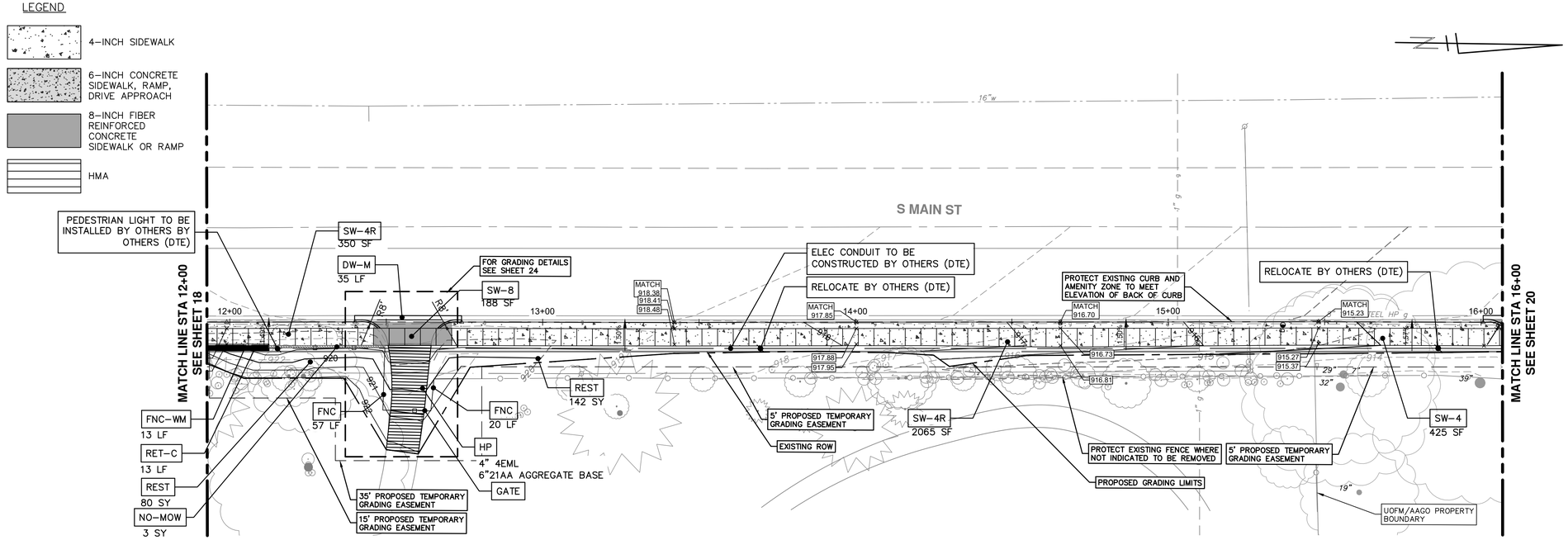
SHEET No. 18 OF 38

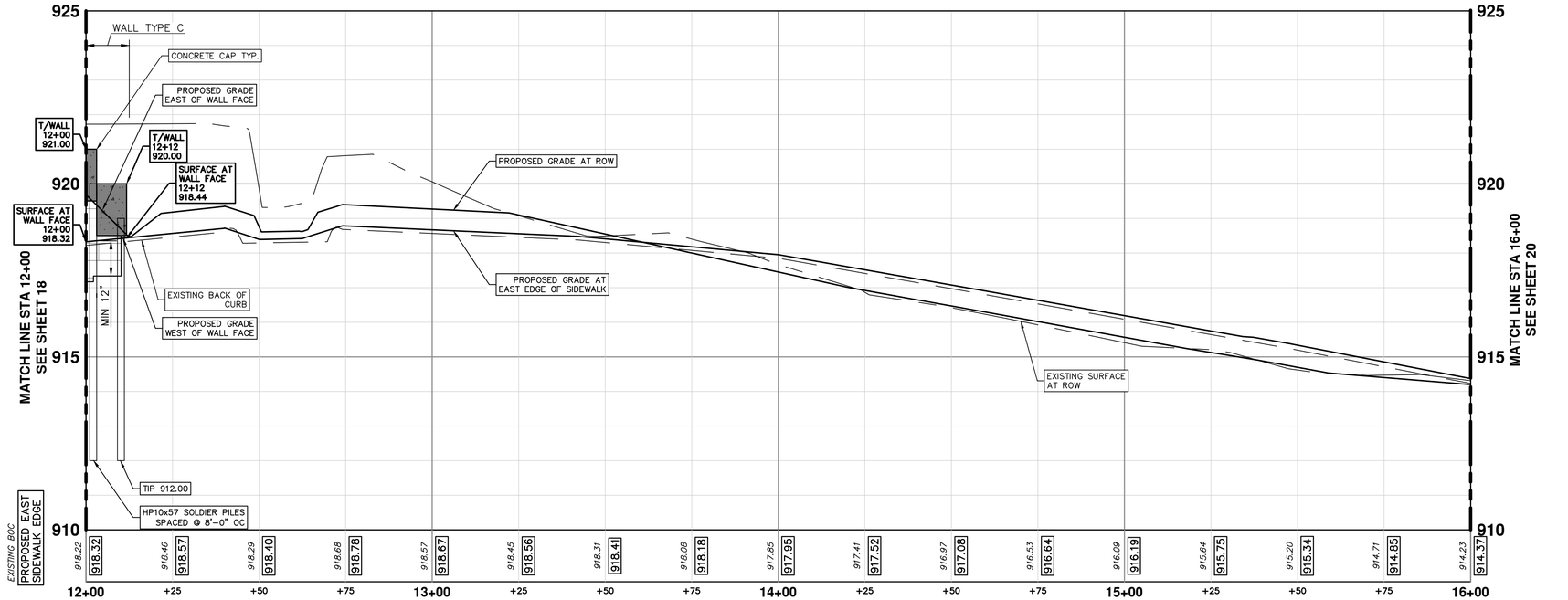
CONSTRUCTION KEY

KEY	DESCRIPTION
RET–A	DS_SOLDIER PILE RETAINING WALL, TYPE A
RET–B	DS_SOLDIER PILE RETAINING WALL, TYPE B
RET–C	DS_SOLDIER PILE RETAINING WALL, TYPE C
REST	TURF RESTORATION
SW–4	CONC, SIDEWALK, 4 IN.
SW–6	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN.
SW–8	DS_CONC, SIDEWALK, FIBERMESH, 8 IN.
SW–4R	DS_CONC, SIDEWALK, FIBERMESH, 4 IN.
CG	CONC, CURB, OR CURB & GUTTER, ALL TYPES
DWS	DETECTABLE WARNING SURFACE
DW–M	CONC, DRIVEWAY OPENING, TYPE M
HP	HAND PATCHING
FNC	DS_FENCE, CHAIN LINK, 72 INCH, VINYL–COATED
FNC–WM	DS_FENCE, CHAIN LINK, 72 INCH, VINYL–COATED, WALL MOUNTED
GUY–A	DS_GUY ANCHOR, REM
GATE	DS_GATE, DOUBLE SWING, 72–INCH HEIGHT, 10–FT WIDTH (GATE SHALL OPEN OUTWARD)
NO–MOW	TURF RESTORATION (NO MOW)

LEGEND

- 4–INCH SIDEWALK
- 6–INCH CONCRETE SIDEWALK, RAMP, DRIVE APPROACH
- 8–INCH FIBER REINFORCED CONCRETE SIDEWALK OR RAMP
- HMA





NOTE

- ALL SIDEWALK BETWEEN STATIONS 01+40 & 15+47 ON THE EAST SIDE OF S MAIN ST SHALL BE FIBER REINFORCED PER SPECS
- LIMITS OF SIDEWALK GRADING EXTEND FROM EDGE OF METAL OF EXISTING CURB OR NEW CURB TO THE ROW, EDGE OF EXISTING SIDEWALK EASEMENT, EDGE OF TEMPORARY GRADING PERMIT OR PROPOSED PERMANENT EASEMENT(WHICHEVER IS WIDER) FOR THE ENTIRE LENGTH OF THE SIDEWALK, INCLUDING QUADRANTS ON THE WEST SIDE OF THE SCIO/MAIN INTERSECTION.
- CONTRACTOR TO COORDINATE WITH THE UNIVERSITY OF MICHIGAN TO DETERMINE FENCE REMOVAL AND INSTALLATION BETWEEN STATIONS 1+48–15+47.

CONTRACTOR SHALL NOTE THE PRESENCE OF OVERHEAD UTILITIES IN THE FOLLOWING AREAS:

OVERHEAD UTILITY		
TYPE	START STA	END STA
ELECTRIC	12+27	15+26
COMMUNICATIONS	12+00	15+26

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734.794.6410
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

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

DRAWING No. 2020-029-19

SHEET No. 19 OF 38

SOUTH MAIN STREET SIDEWALK PROJECT

PROPOSED SIDEWALK PLAN AND PROFILE STA 12+00 TO STA 16+00

CONSTRUCTION KEY

KEY	DESCRIPTION
RET–A	DS_SOLDIER PILE RETAINING WALL, TYPE A
RET–B	DS_SOLDIER PILE RETAINING WALL, TYPE B
RET–C	DS_SOLDIER PILE RETAINING WALL, TYPE C
REST	TURF RESTORATION
SW–4	CONC, SIDEWALK, 4 IN.
SW–6	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN.
SW–8	DS_CONC, SIDEWALK, FIBERMESH, 8 IN.
SW–4R	DS_CONC, SIDEWALK, FIBERMESH, 4 IN.
CG	CONC, CURB, OR CURB & GUTTER, ALL TYPES
DWS	DETECTABLE WARNING SURFACE
DW–M	CONC, DRIVEWAY OPENING, TYPE M
HP	HAND PATCHING
FNC	DS_FENCE, CHAIN LINK, 72 INCH, VINYL–COATED
FNC–WM	DS_FENCE, CHAIN LINK, 72 INCH, VINYL–COATED, WALL MOUNTED
GUY–A	DS_GUY ANCHOR, REM
DW–8	8 INCH DRIVEWAY, CONC, NON–REINFORCED

LEGEND

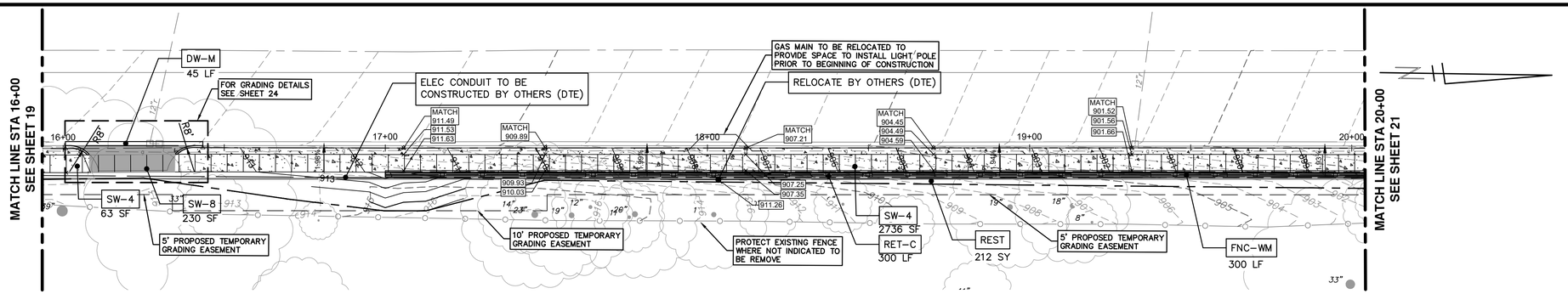
- 4–INCH SIDEWALK
- 6–INCH CONCRETE SIDEWALK, RAMP, DRIVE APPROACH
- 8–INCH FIBER REINFORCED CONCRETE SIDEWALK OR RAMP

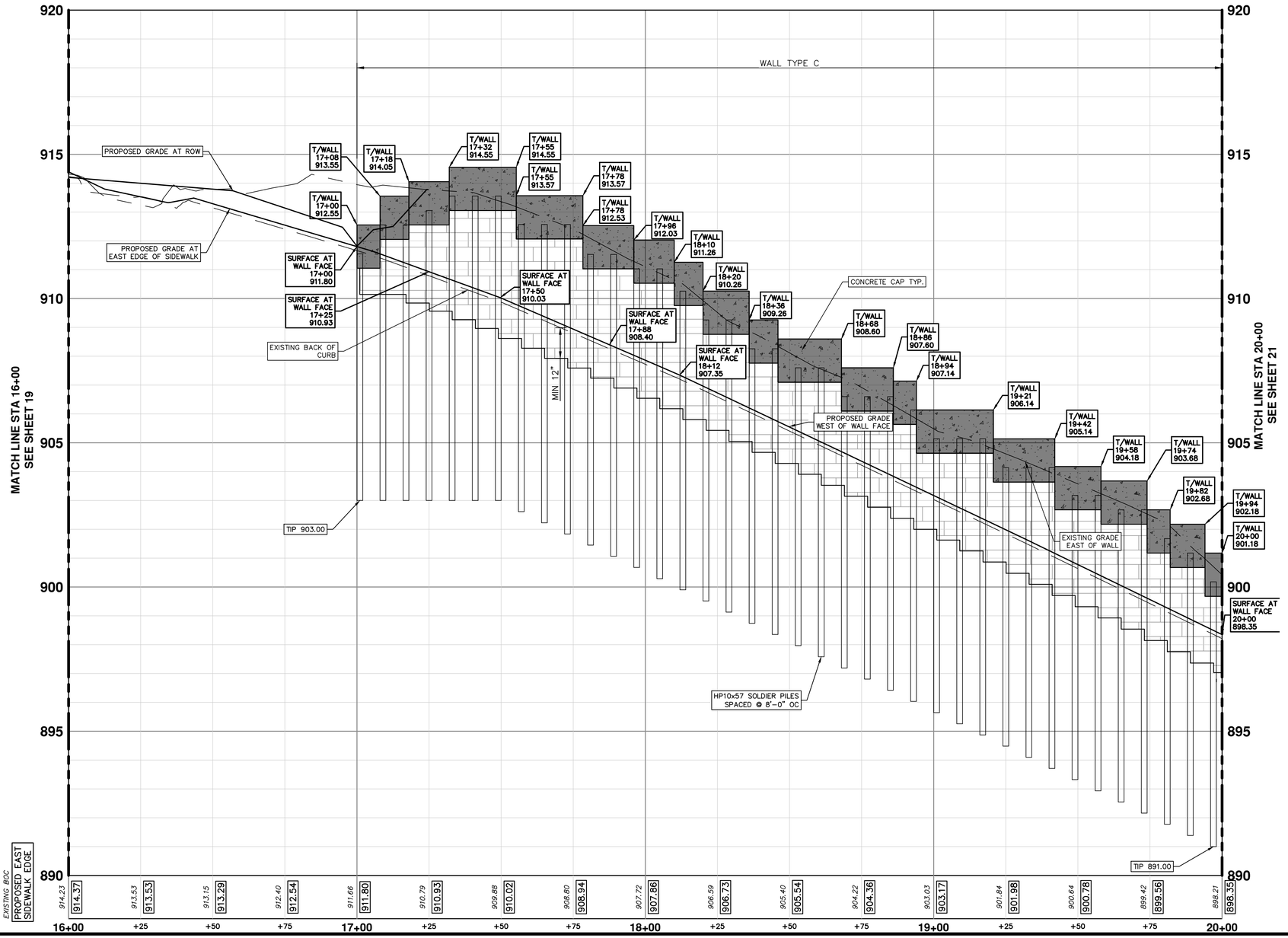
NOTE

- ALL SIDEWALK BETWEEN STATIONS 01+40 & 15+47 ON THE EAST SIDE OF S MAIN ST SHALL BE FIBER REINFORCED PER SPECS
- LIMITS OF SIDEWALK GRADING EXTEND FROM EDGE OF METAL OF EXISTING CURB OR NEW CURB TO THE ROW, EDGE OF EXISTING SIDEWALK EASEMENT, EDGE OF TEMPORARY GRADING PERMIT OR PROPOSED PERMANENT EASEMENT(WHICHEVER IS WIDER) FOR THE ENTIRE LENGTH OF THE SIDEWALK, INCLUDING QUADRANTS ON THE WEST SIDE OF THE SCIO/MAIN INTERSECTION.

CONTRACTOR SHALL NOTE THE PRESENCE OF OVERHEAD UTILITIES IN THE FOLLOWING AREAS:

OVERHEAD UTILITY		
TYPE	START STA	END STA
ELECTRIC	–	–
COMMUNICATIONS	–	–





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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SOUTH MAIN STREET SIDEWALK PROJECT

PROPOSED SIDEWALK PLAN AND PROFILE STA 16+00 TO STA 20+00

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

DRAWING No. 2020-029-20

SHEET No. 20 OF 38

CONSTRUCTION KEY

KEY	DESCRIPTION
RET–A	DS_SOLDIER PILE RETAINING WALL, TYPE A
RET–B	DS_SOLDIER PILE RETAINING WALL, TYPE B
RET–C	DS_SOLDIER PILE RETAINING WALL, TYPE C
REST	TURF RESTORATION
SW–4	CONC, SIDEWALK, 4 IN.
SW–6	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN.
SW–8	DS_CONC, SIDEWALK, FIBERMESH, 8 IN.
SW–4R	DS_CONC, SIDEWALK, FIBERMESH, 4 IN.
CG	CONC, CURB, OR CURB & GUTTER, ALL TYPES
DWS	DETECTABLE WARNING SURFACE
DW–M	CONC, DRIVEWAY OPENING, TYPE M
HP	HAND PATCHING
FNC	DS_FENCE, CHAIN LINK, 72 INCH, VINYL–COATED
FNC–WM	DS_FENCE, CHAIN LINK, 72 INCH, VINYL–COATED, WALL MOUNTED
GUY–A	DS_GUY ANCHOR, REM
DW–8	8 INCH DRIVEWAY, CONC, NON–REINFORCED

LEGEND

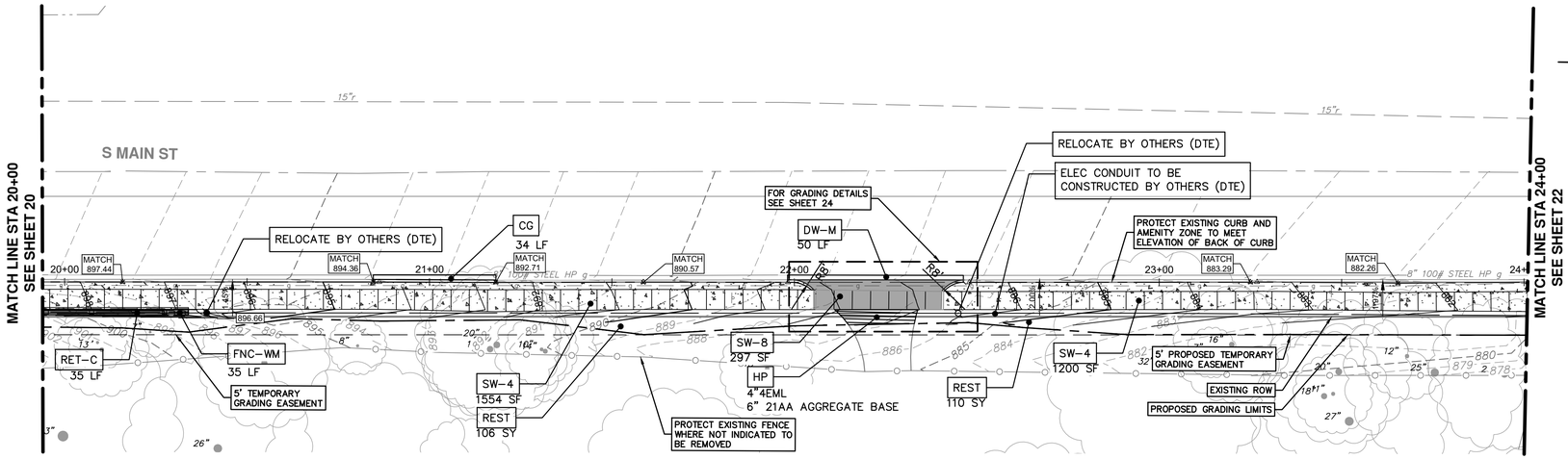
- 4–INCH SIDEWALK
- 6–INCH CONCRETE SIDEWALK, RAMP, DRIVE APPROACH
- 8–INCH FIBER REINFORCED CONCRETE SIDEWALK OR RAMP
- HMA

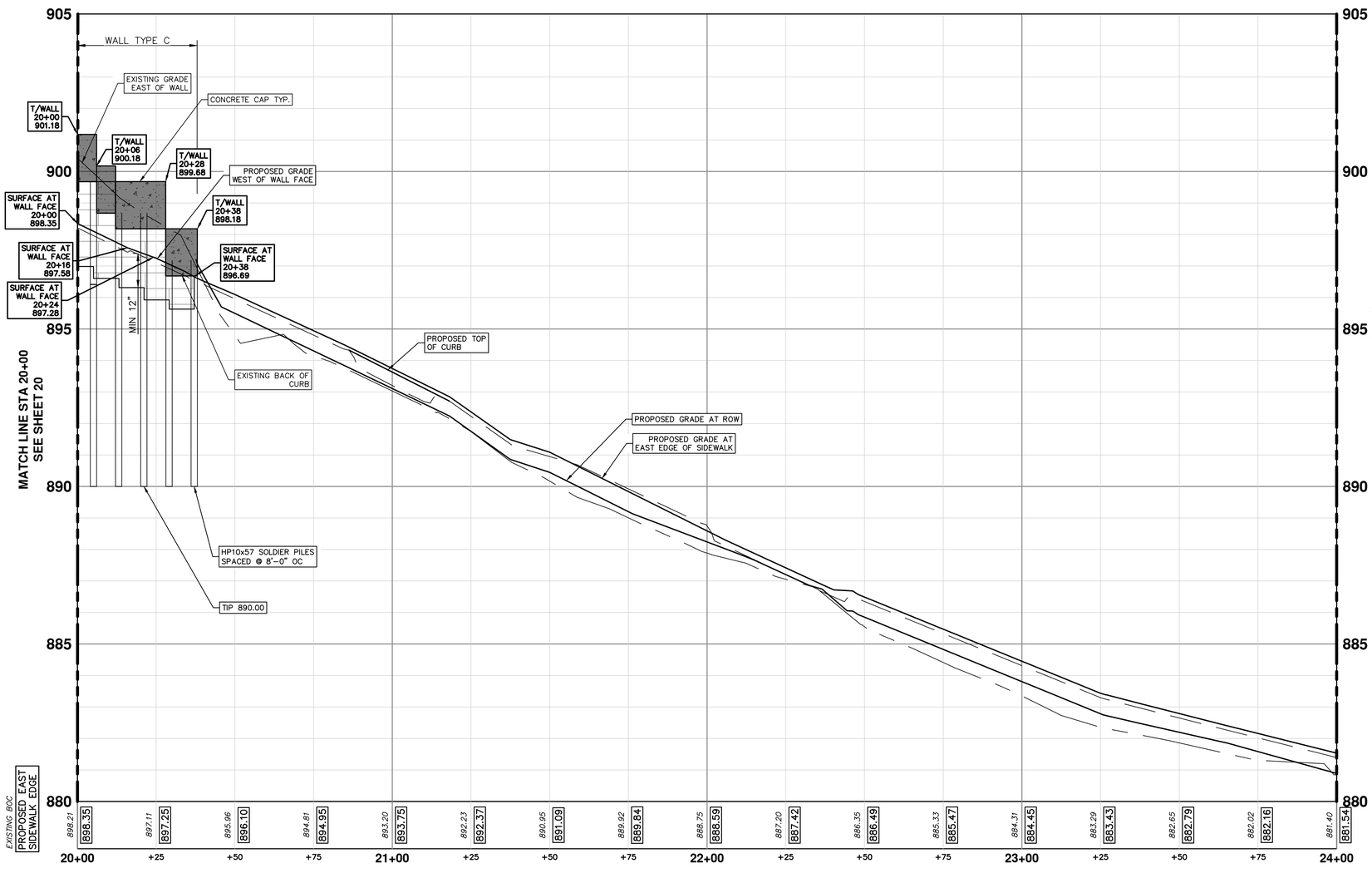
NOTE

- ALL SIDEWALK BETWEEN STATIONS 01+40 & 15+47 ON THE EAST SIDE OF S MAIN ST SHALL BE FIBER REINFORCED PER SPECS
- LIMITS OF SIDEWALK GRADING EXTEND FROM EDGE OF METAL OF EXISTING CURB OR NEW CURB TO THE ROW, EDGE OF EXISTING SIDEWALK EASEMENT, EDGE OF TEMPORARY GRADING PERMIT OR PROPOSED PERMANENT EASEMENT(WHICHEVER IS WIDER) FOR THE ENTIRE LENGTH OF THE SIDEWALK, INCLUDING QUADRANTS ON THE WEST SIDE OF THE SCIO/MAIN INTERSECTION.

CONTRACTOR SHALL NOTE THE PRESENCE OF OVERHEAD UTILITIES IN THE FOLLOWING AREAS:

OVERHEAD UTILITY		
TYPE	START STA	END STA
ELECTRIC	—	—
COMMUNICATIONS	—	—





REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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PUBLIC SERVICES
301 E HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734.794.6410
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

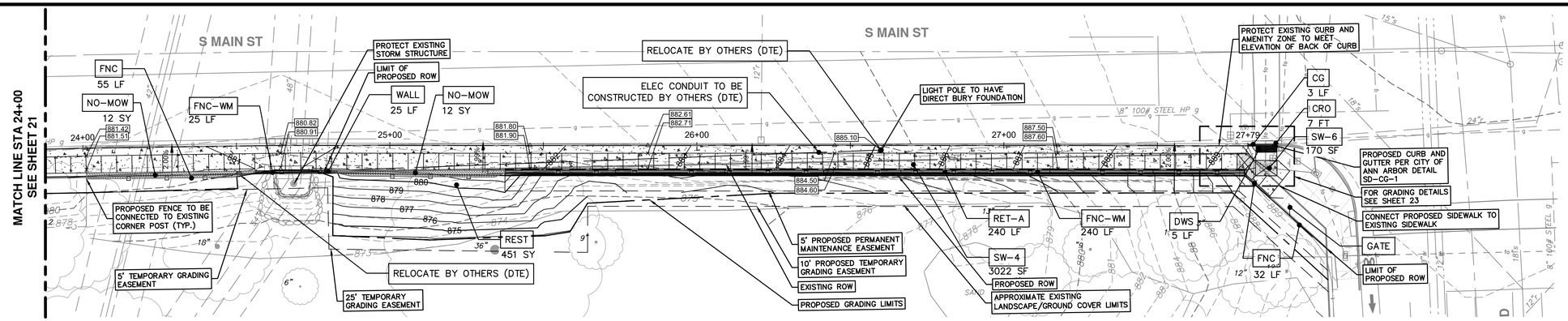
SOUTH MAIN STREET SIDEWALK PROJECT

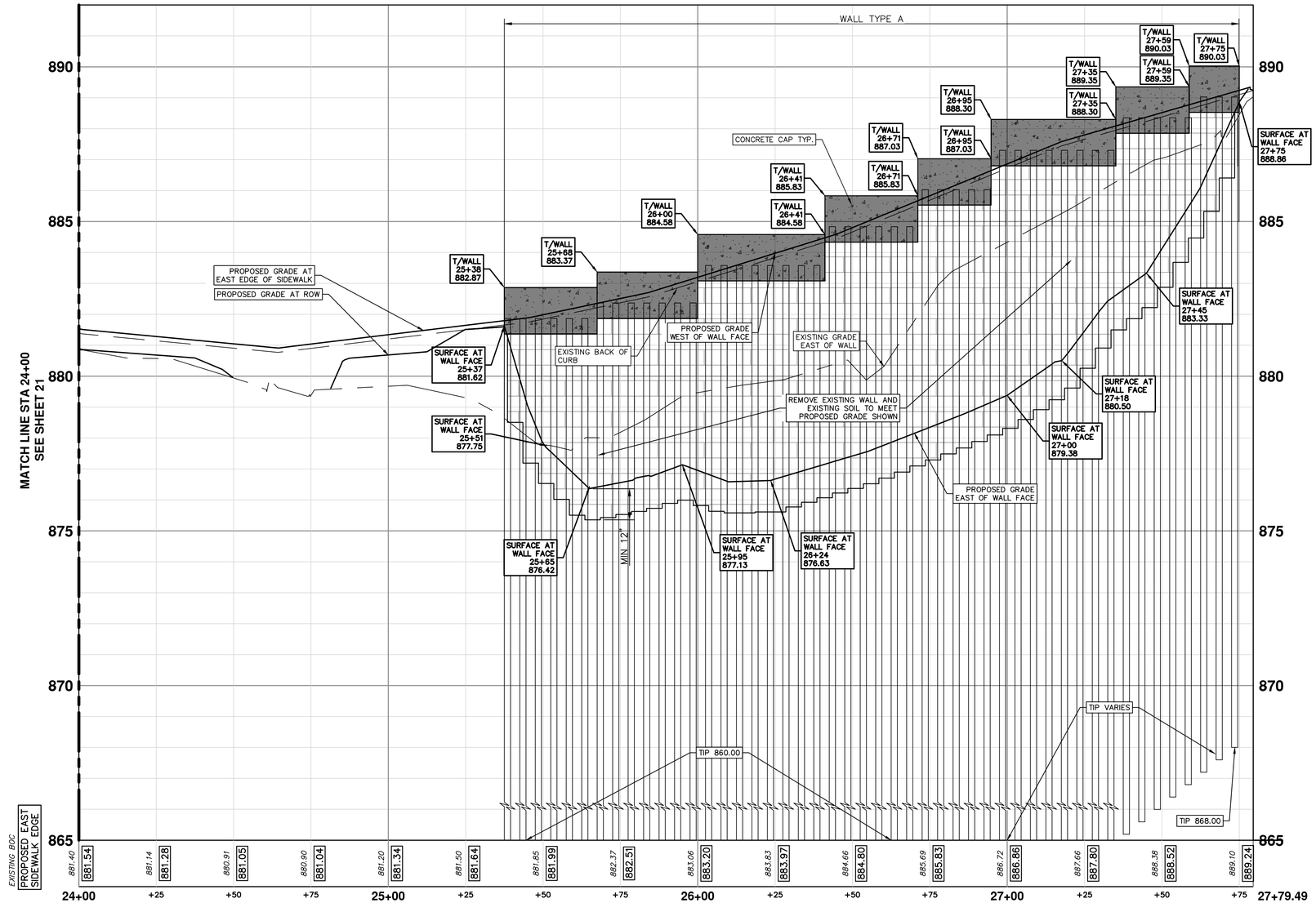
PROPOSED SIDEWALK PLAN AND PROFILE STA 20+00 TO STA 24+00

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

DRAWING No. 2020-029-21

SHEET No. 21 OF 38





CONSTRUCTION KEY

KEY	DESCRIPTION
RET–A	DS_SOLDIER PILE RETAINING WALL, TYPE A
RET–B	DS_SOLDIER PILE RETAINING WALL, TYPE B
RET–C	DS_SOLDIER PILE RETAINING WALL, TYPE C
REST	TURF RESTORATION
SW–4	CONC, SIDEWALK, 4 IN.
SW–6	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN.
SW–4R	DS_CONC, SIDEWALK, FIBERMESH, 4 IN.
CG	CONC, CURB, OR CURB & GUTTER, ALL TYPES
DWS	DETECTABLE WARNING SURFACE
DW–M	CONC, DRIVEWAY OPENING, TYPE M
HP	HAND PATCHING
FNC	DS_FENCE, CHAIN LINK, 72 INCH, VINYL–COATED
FNC–WM	DS_FENCE, CHAIN LINK, 72 INCH, VINYL–COATED, WALL MOUNTED
GUY–A	DS_GUY ANCHOR, REM
GATE	DS_GATE, DOUBLE SWING, 72–INCH HEIGHT, 10–FT WIDTH (GATE SHALL OPEN OUTWARD)
CRO	CURB RAMP OPENING, CONC
WALL	DS_CIP RETAINING WALL
NO–MOW	TURF RESTORATION (NO MOW)

CONTRACTOR SHALL NOTE THE PRESENCE OF OVERHEAD UTILITIES IN THE FOLLOWING AREAS:

OVERHEAD UTILITY		
TYPE	START STA	END STA
ELECTRIC	—	—
COMMUNICATIONS	27+78	27+78

LEGEND

- 4–INCH SIDEWALK
- 6–INCH CONCRETE SIDEWALK, RAMP, DRIVE APPROACH
- 8–INCH FIBER REINFORCED CONCRETE SIDEWALK OR RAMP

NOTE

- ALL SIDEWALK BETWEEN STATIONS 01+40 & 15+47 ON THE EAST SIDE OF S MAIN ST SHALL BE FIBER REINFORCED PER SPECS
- LIMITS OF SIDEWALK GRADING EXTEND FROM EDGE OF METAL OF EXISTING CURB OR NEW CURB TO THE ROW, EDGE OF EXISTING SIDEWALK EASEMENT, EDGE OF TEMPORARY GRADING PERMIT OR PROPOSED PERMANENT EASEMENT(WHICHEVER IS WIDER) FOR THE ENTIRE LENGTH OF THE SIDEWALK, INCLUDING QUADRANTS ON THE WEST SIDE OF THE SCIO/MAIN INTERSECTION.

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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ANN ARBOR, MI 48107-8647
734-794-6410
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SOUTH MAIN STREET SIDEWALK PROJECT

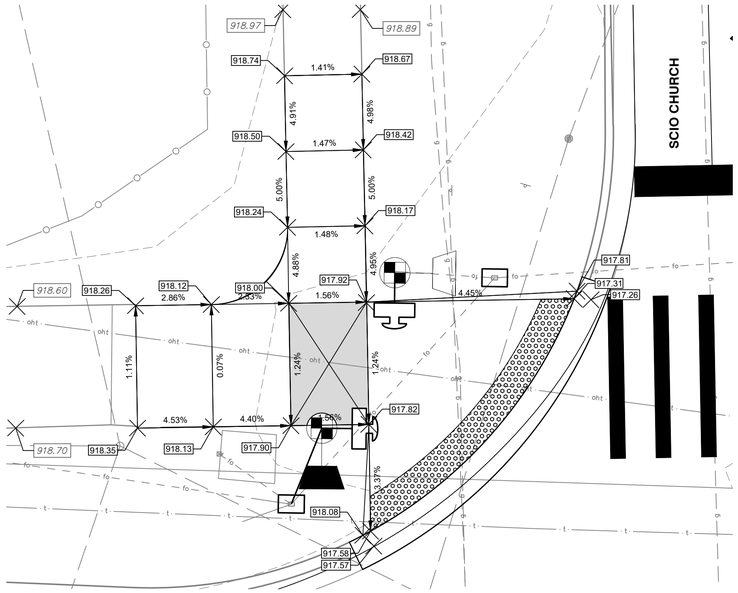
PROPOSED SIDEWALK PLAN AND PROFILE STA 24+00 TO STA 27+79

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

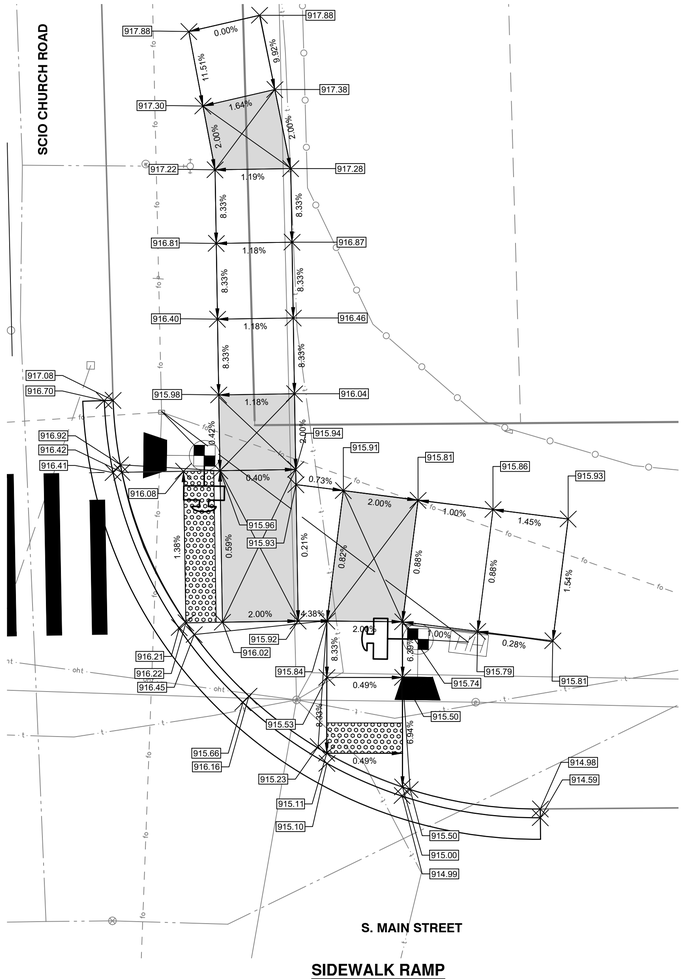
DRAWING No. 2020-029-22

SHEET No. 22 OF 38

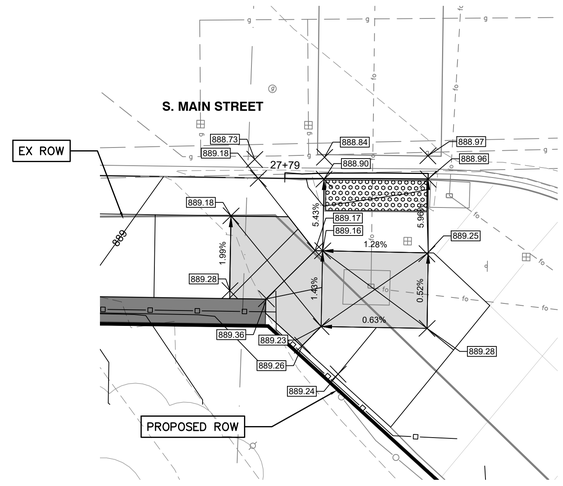
c:\pw_work2\d1257121\CSP-PLTS-Proposed SideWalk Plan-Pro.dwg Dwg Created: 21-Jan-26 — _a2 standard bw.stb — Plot Date: 21-Jan-26



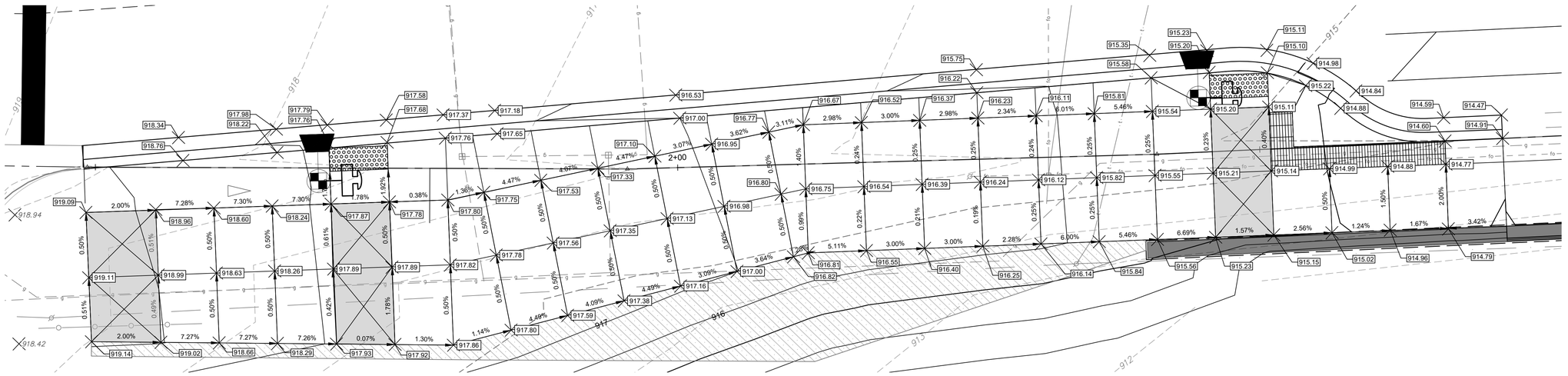
SIDEWALK RAMP
SOUTHWEST QUADRANT



SIDEWALK RAMP
NORTHWEST QUADRANT



SIDEWALK RAMP
S. MAIN ST & STADIUM BLVD SOUTHEAST QUADRANT



SIDEWALK RAMP/BUMP OUT
EAST S. MAIN ST & SCIO CHURCH RD INTERSECTION

LEGEND

PROPOSED LANDING SPACE

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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ANN ARBOR, MI 48107-8647
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

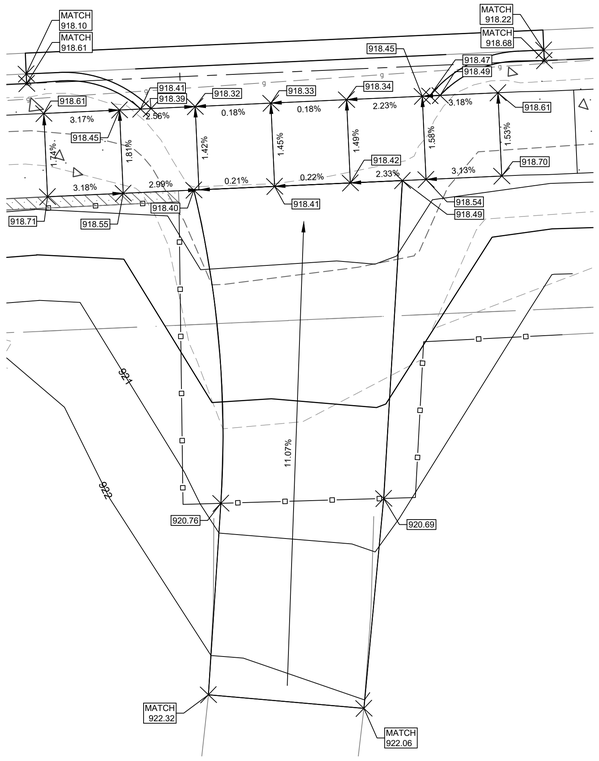
SOUTH MAIN STREET SIDEWALK PROJECT

SIDEWALK GRADING PLANS

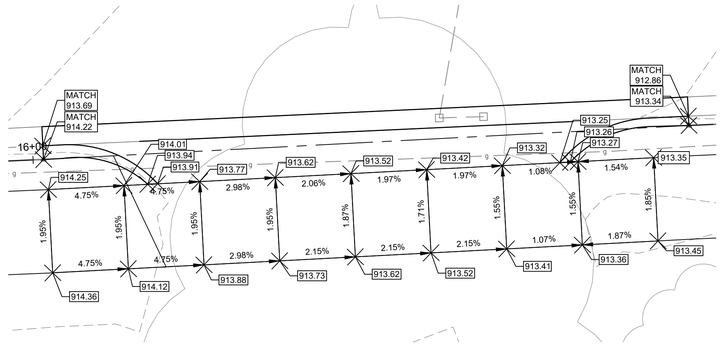
SCALE PLAN: 1"=5' PROFILE: 1"= 2'

DRAWING No. **2020-029-23**

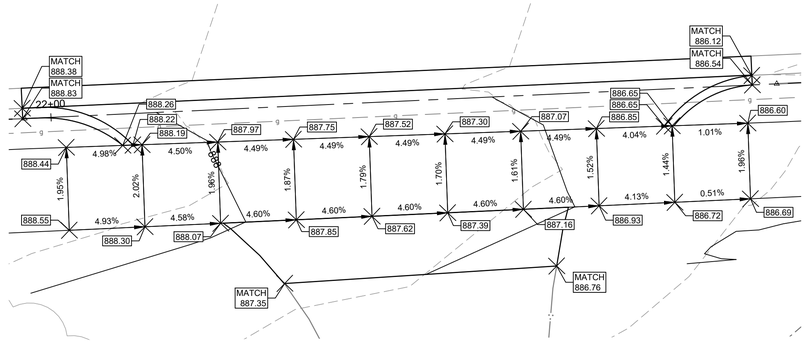
SHEET No. **23 OF 38**



DRIVE APPROACH
STA. 12+40 - STA. 12+74



DRIVE APPROACH
STA. 16+00 - STA. 16+43



DRIVE APPROACH
STA. 21+98 - STA. 22+46

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

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

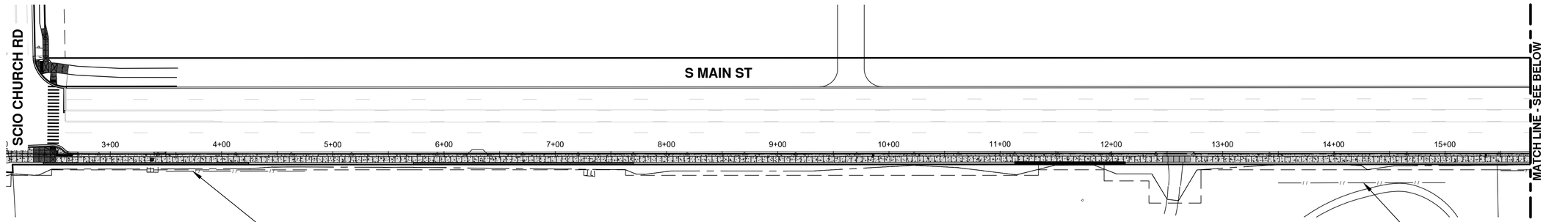
SOUTH MAIN STREET SIDEWALK PROJECT

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

DRAWING No. **2020-029-24**

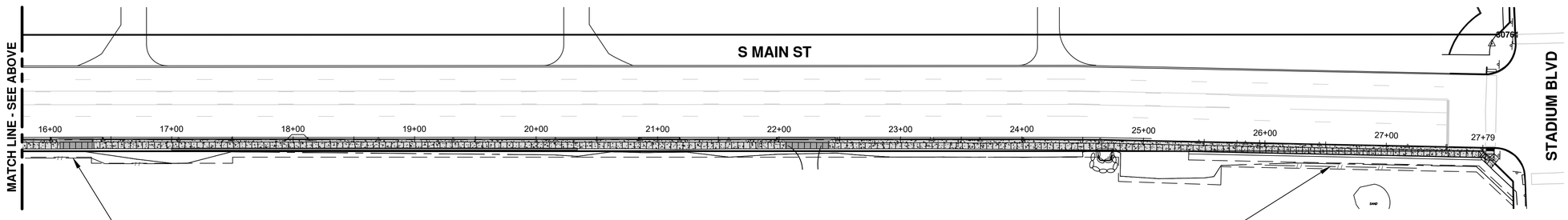
DRIVE APPROACH GRADING PLANS

SHEET No. **24 OF 38**



APPROXIMATE LIMITS OF DS_TEMPORARY PROTECTIVE FENCE FROM STATION 3+50 TO 4+75. CONTRACTOR TO COORDINATE WITH THE UNIVERSITY OF MICHIGAN AND CITY ENGINEER TO CONFIRM SUFFICIENT PROTECTION AND REVISE LIMITS AS NECESSARY TO PROVIDE SAFE WORKING CONDITIONS

APPROXIMATE LIMITS OF DS_TEMPORARY PROTECTIVE FENCE FROM STATION 13+50 TO 15+00. CONTRACTOR TO COORDINATE WITH THE UNIVERSITY OF MICHIGAN AND CITY ENGINEER TO CONFIRM SUFFICIENT PROTECTION AND REVISE LIMITS AS NECESSARY TO PROVIDE SAFE WORKING CONDITIONS. MAINTAIN MIN 10 FT HORIZONTAL CLEARANCE FROM OVERHEAD ELECTRICAL LINES.



APPROXIMATE LIMITS OF DS_TEMPORARY PROTECTIVE FENCE FROM STATION 15+50 TO 17+00. CONTRACTOR TO COORDINATE WITH ANN ARBOR GOLF AND OUTING AND CITY ENGINEER TO CONFIRM SUFFICIENT PROTECTION AND REVISE LIMITS AS NECESSARY TO PROVIDE SAFE WORKING CONDITIONS

APPROXIMATE LIMITS OF DS_TEMPORARY PROTECTIVE FENCE FROM STATION 26+00 TO 27+25. CONTRACTOR TO COORDINATE WITH ANN ARBOR GOLF AND OUTING AND CITY ENGINEER TO CONFIRM SUFFICIENT PROTECTION AND REVISE LIMITS AS NECESSARY TO PROVIDE SAFE WORKING CONDITIONS

LEGEND

—//— TEMPORARY PROTECTIVE NETTING LIMITS

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

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

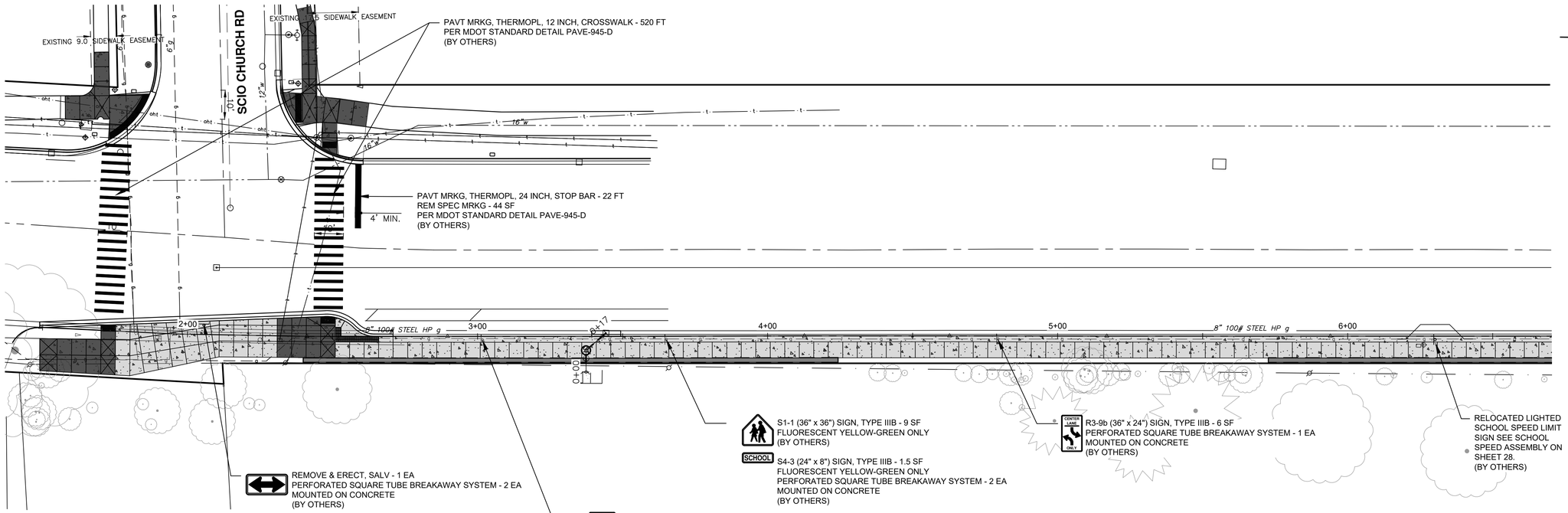
SOUTH MAIN STREET SIDEWALK

TEMPORARY PROTECTIVE FENCE LIMITS

SCALE PLAN: 1"=50' PROFILE: 1" = 2'

DRAWING No. 2020-029-30

SHEET No. 25 OF 38



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

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

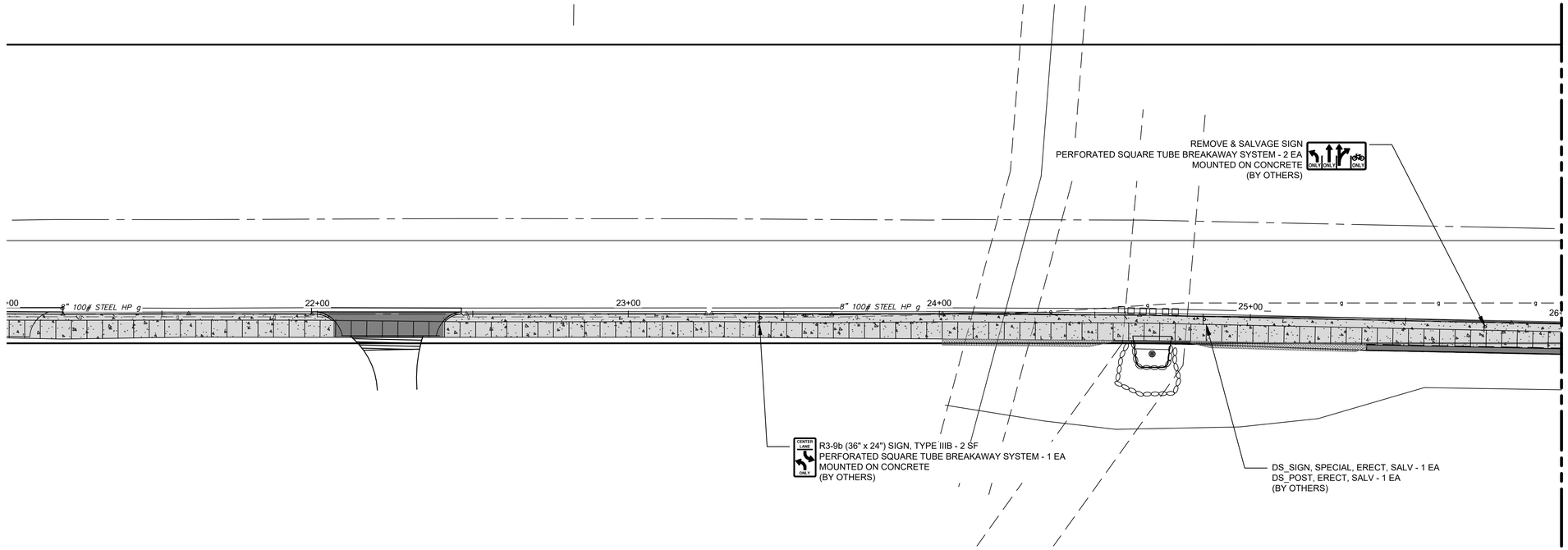
SCALE **PLAN:** 1"=20' **PROFILE:** 1"= 2'

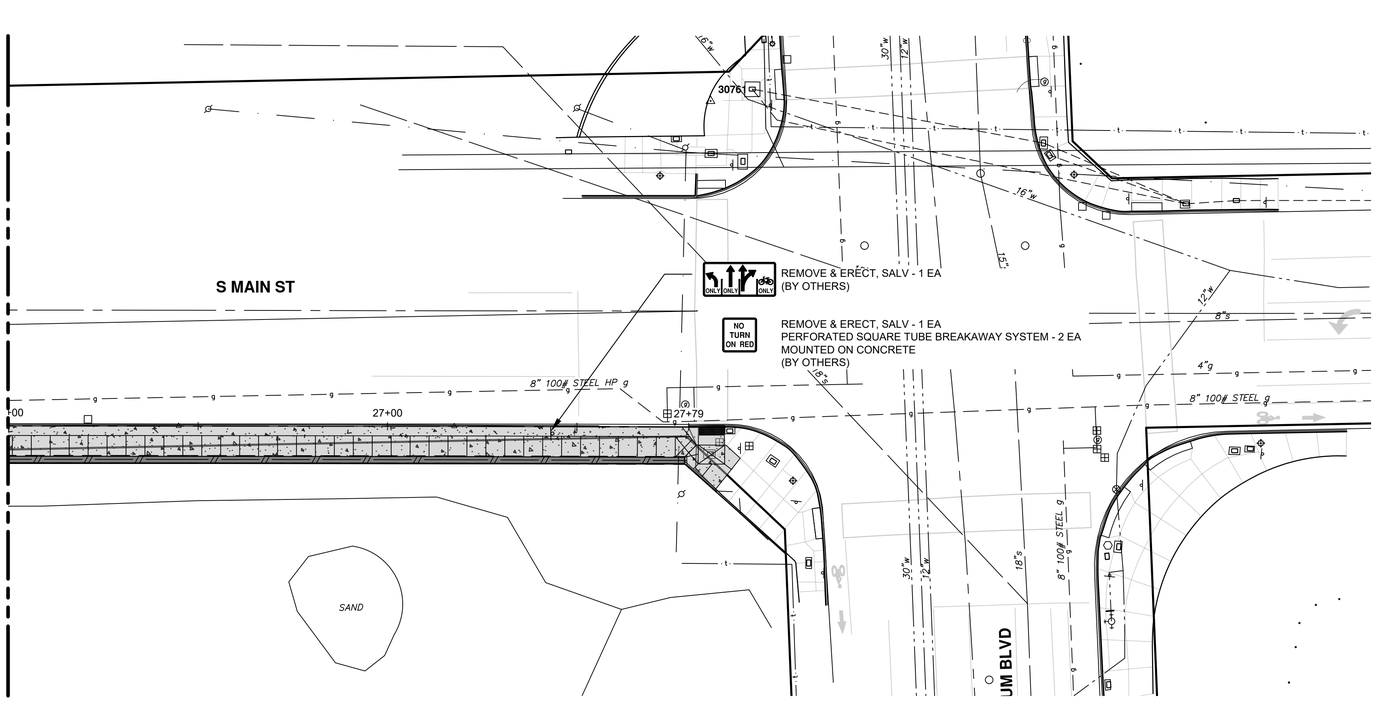
DRAWING No. **2020-029-26**

SOUTH MAIN STREET SIDEWALK PROJECT

SIGNAGE & PAVEMENT MARKING PLAN 1

SHEET No. **26 OF 38**





c:\pw_work2\d1257121\CSP-PLTS-Proposed Sign Plan.dwg Dwg Created: 19-Jan-26 — _a2 standard bw.stb — Plot Date: 21-Jan-26

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

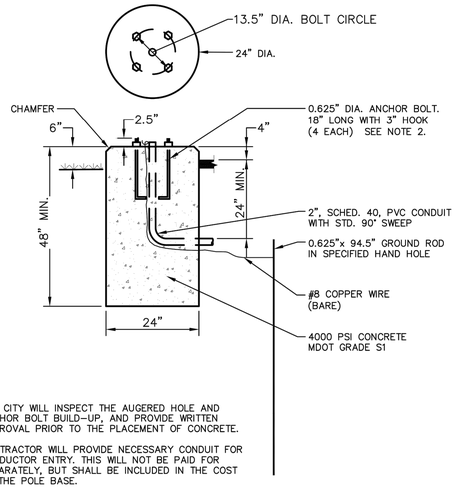
SOUTH MAIN STREET SIDEWALK PROJECT

SIGNAGE & PAVEMENT MARKING PLAN 2

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

DRAWING No. 2020-029-27

SHEET No. 27 OF 38



NOTES:

1. THE CITY WILL INSPECT THE AUGERED HOLE AND ANCHOR BOLT BUILD-UP, AND PROVIDE WRITTEN APPROVAL PRIOR TO THE PLACEMENT OF CONCRETE.
2. CONTRACTOR WILL PROVIDE NECESSARY CONDUIT FOR CONDUCTOR ENTRY. THIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE POLE BASE.

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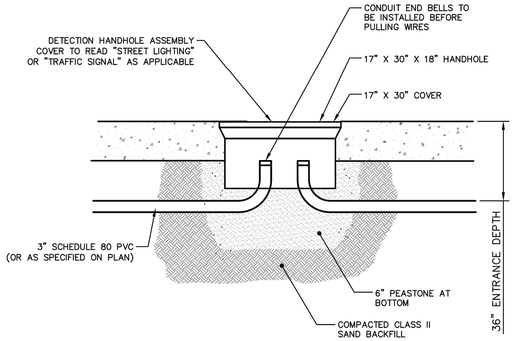
REV. NO.	DATE	DRAWN BY	CHECKED BY

PEDESTRIAN SIGNAL POLE FOUNDATION

DR. ENG	CH. ENG	DRAWING NO.
SCALE N.T.S.	DATE 12/8/2023	SD-SL-3



INSTALLATION NOTE:

THE CONDUIT SHALL BE LOWERED TO A MINIMUM ENTRANCE DEPTH OF 36" BELOW TOP OF THE HANDLE OVER A DISTANCE OF 10 FT. ON EACH SIDE OF THE HANDHOLE ASSEMBLY

IF THE CONDUIT HAS TO ENTER THE HANDHOLE AT A DEPTH GREATER THAN 36" DEEP DUE TO CONFLICT, THEN 90 DEGREE SWEEPS SHALL BE PROVIDED."

BACKFILL CONDUIT AND HANDHOLE W/CLASS II SAND. IF PLACED IN GREENBELT, PLACE 4" OF TOP SOIL.

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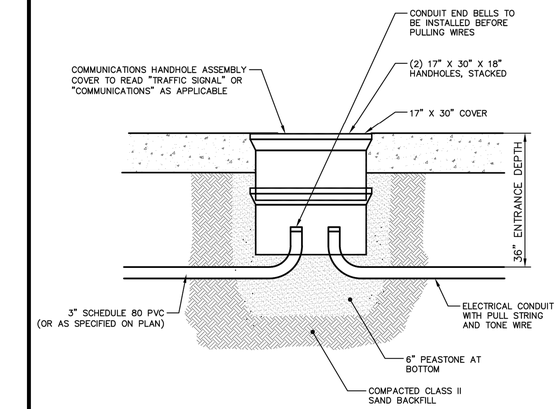
REV. NO.	DATE	DRAWN BY	CHECKED BY

ELECTRICAL HANDHOLE ASSEMBLY

DR. ENG	CH. ENG	DRAWING NO.
SCALE N.T.S.	DATE 12/8/2023	SD-E-3



INSTALLATION NOTE:

THE CONDUIT SHALL BE LOWERED TO A MINIMUM ENTRANCE DEPTH OF 36" BELOW TOP OF THE HANDLE OVER A DISTANCE OF 10 FT. ON EACH SIDE OF THE HANDHOLE ASSEMBLY

IF THE CONDUIT HAS TO ENTER THE HANDHOLE AT A DEPTH GREATER THAN 36" DEEP DUE TO CONFLICT, THEN 90 DEGREE SWEEPS SHALL BE PROVIDED."

BACKFILL CONDUIT AND HANDHOLE W/CLASS II SAND. IF PLACED IN GREENBELT, PLACE 4" OF TOP SOIL.

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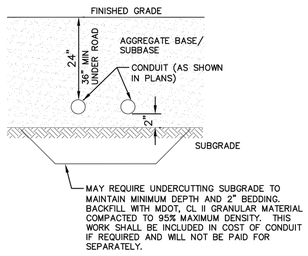
REV. NO.	DATE	DRAWN BY	CHECKED BY

COMMUNICATIONS HANDHOLE ASSEMBLY

DR. ENG	CH. ENG	DRAWING NO.
SCALE N.T.S.	DATE 12/8/2023	SD-E-1



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REV. NO.	DATE	DRAWN BY	CHECKED BY

CONDUIT PLACEMENT DETAIL

DR. ENG	CH. ENG	DRAWING NO.
SCALE N.T.S.	DATE 12/8/2023	SD-E-2

SIGNAL NOTES

MAINTAINING AGENCY CONTACT INFORMATION
- CITY OF ANN ARBOR: (734) 794-6361

NOTIFICATIONS TO MAINTAINING AGENCIES
CONTACT THE CITY OF ANN ARBOR SEVEN WORKING DAYS PRIOR TO START OF CONSTRUCTION AND SEVEN WORKING DAYS PRIOR TO SIGNAL ACTIVATION.

FACILITIES NOT ON PLANS
EXISTING O.H. & T.S. FACILITIES ARE NOT NECESSARILY SHOWN ON PLANS.

UNDERGROUND UTILITY SEPARATION
A MINIMUM CLEARANCE OF 3'-6" HORIZONTAL & 1'-0" VERTICAL MUST BE MAINTAINED BETWEEN PROPOSED FACILITIES & EXISTING U.G. WATER FACILITIES.

SIGNAL EQUIPMENT DISPOSAL
DISPOSAL OF ALL TRAFFIC SIGNAL EQUIPMENT IS INCLUDED IN THE REMOVAL PAY ITEMS AND SHALL ALSO INCLUDE THE FOLLOWING:
- NOTIFICATION TO THE CITY OF ANN ARBOR THAT TRAFFIC SIGNAL EQUIPMENT IS BEING REMOVED.
- TEMPORARY STORAGE OF EQUIPMENT IN A DUMPSTER ON SITE (OR AS DIRECTED BY THE ENGINEER) ALLOWING THE CITY OF ANN ARBOR 48 HOURS TO SALVAGE ANY EQUIPMENT.
- PROPER DISPOSAL OF ANY EQUIPMENT CONTAINING ENVIRONMENTALLY SENSITIVE MATERIALS (MERCURY RELAY SWITCHES FOR EXAMPLE)
- DISABLING OR DESTRUCTION OF ALL REMAINING EQUIPMENT TO THE SATISFACTION OF THE ENGINEER SUCH THAT IT CANNOT BE REUSED OR RESOLD.
- PROPER DISPOSAL OF ALL REMAINING EQUIPMENT.

PLAN DEVIATIONS DURING CONSTRUCTION
NO CHANGES FROM PLANS IN LOCATION OF SUPPORTING STRUCTURES SIGNAL HEAD PLACEMENT OR TRAFFIC SIGNAL EQUIPMENT WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE CITY OF ANN ARBOR.

CONTINUOUS TRAFFIC SIGNAL OPERATION
PLACE PROPOSED TRAFFIC SIGNAL INTO OPERATION AT TIME OF REMOVAL OF EXISTING TRAFFIC SIGNAL FACILITIES.
CONTACT CITY OF ANN ARBOR IF UNABLE TO MAINTAIN THE TRAFFIC SIGNAL IN AN OPERABLE CONDITION AT ALL TIMES.

TRAFFIC SIGNAL EQUIPMENT SYMBOLS

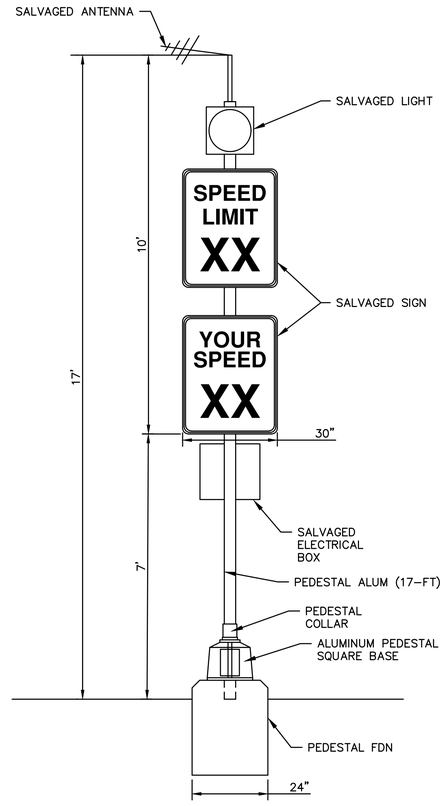
- 12" L.E.D. VEHICLE TRAFFIC SIGNAL (ONE WAY)
- 12" L.E.D. VEHICLE TRAFFIC SIGNAL (TWO WAY: BACK TO BACK)
- 12" L.E.D. VEHICLE TRAFFIC SIGNAL (THREE WAY)
- 12" L.E.D. VEHICLE TRAFFIC SIGNAL (FOUR WAY)
- 12" L.E.D. PEDESTRIAN TRAFFIC SIGNAL (ONE WAY)
- 12" L.E.D. PEDESTRIAN TRAFFIC SIGNAL (TWO WAY: AT ANGLE TO EACH OTHER)
- PEDESTRIAN PUSHBUTTON
- 30 INCH ROUND PRECAST TRAFFIC SIGNAL HANDHOLE
- 36 INCH ROUND PRECAST TRAFFIC SIGNAL HANDHOLE
- ALUMINUM PEDESTRIAN PEDESTAL
- LED RECTANGULAR RAPID FLASHING BEACON
- ANCHOR BASE STEEL STRAIN POLE (POLE LENGTH & FOUNDATION SIZE AS CALLED OUT)
- MAST ARM STANDARD AND FOUNDATION (POLE LENGTH & FOUNDATION SIZE AS CALLED OUT)
- BASE MOUNTED TRAFFIC CONTROLLER
- POLE MOUNTED TRAFFIC CONROLLER
- CASE SIGN (1 WAY OR 2 WAY)
- CASE SIGN (3 WAY OR 4 WAY)
- COILED UP WIRE (FOR CONNECTION BY OTHERS)
- STAINLESS STEEL SERVICE DISCONNECT
- METERED ELECTRIC SERVICE
- ELECTRIC GROUND
- TS# SIGNAL HEAD
- CS# ILLUMINATED CASE SIGN
- PROPOSED/SALVAGED WIRELESS VEHICLE SENSOR NODE
- EXISTING/REMOVED WIRELESS VEHICLE SENSOR NODE
- SPP RADIO

MDOT SIGNAL STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR IN THE PLANS THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARDS GIVEN BELOW, OPPOSITE EACH ITEM, UNLESS OTHERWISE INDICATED.

*SIG-230-A	COLOR CODE WIRING/EQUIPMENT GROUNDING
*SIG-330-A	PEDESTAL MOUNTED SIGNAL DISPLAYS
*SIG-331-A	PEDESTAL MOUNTING FOR SIGNALS
*SIG-400-A	PEDESTRIAN PUSH BUTTON DETAILS

*MDOT SPECIAL DETAILS - LOCATED IN PROPOSAL



SCHOOL SPEED ASSEMBLY DETAIL

ALL SALVAGED AND REINSTALLED MATERIALS INCLUDED IN THIS DETAIL SHALL BE PAID FOR AS SIGN, SPECIAL, ELECTRICAL, REM SALV, REINSTALL

THE NEW ALUMINUM PEDESTALS SHALL BE INSTALLED WITH SQUARE BASES AND SUPPORT COLLARS. THE SUPPORT COLLARS SHALL BE INCLUDED IN THE PAY ITEM SIGN, SPECIAL, ELECTRICAL, REM SALV, REINSTALL AND WILL NOT BE PAID FOR SEPARATELY.

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

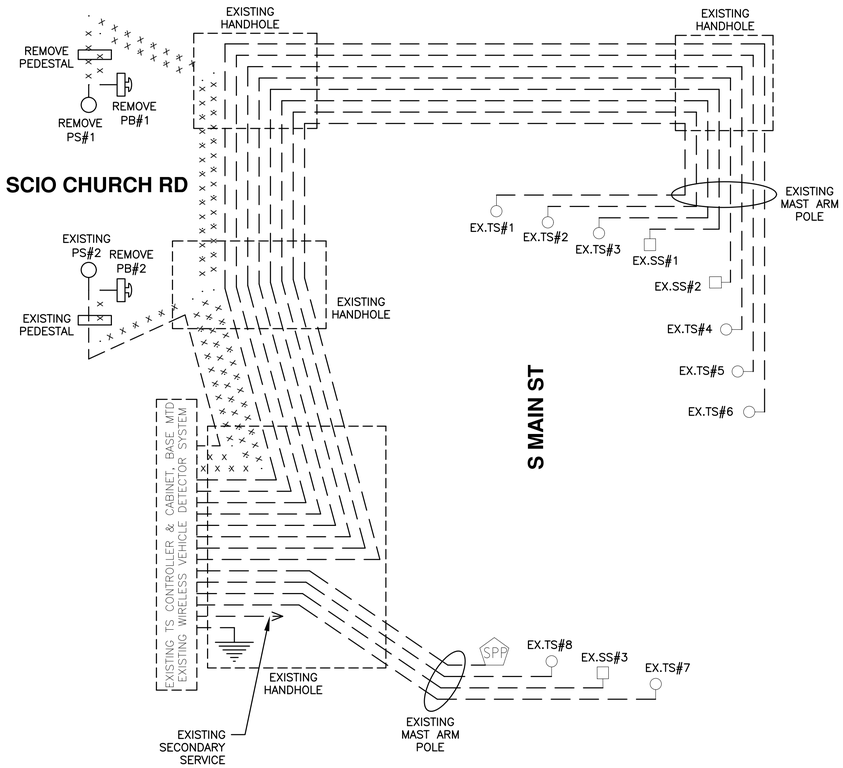
SOUTH MAIN STREET SIDEWALK PROJECT

SIGNAL NOTES

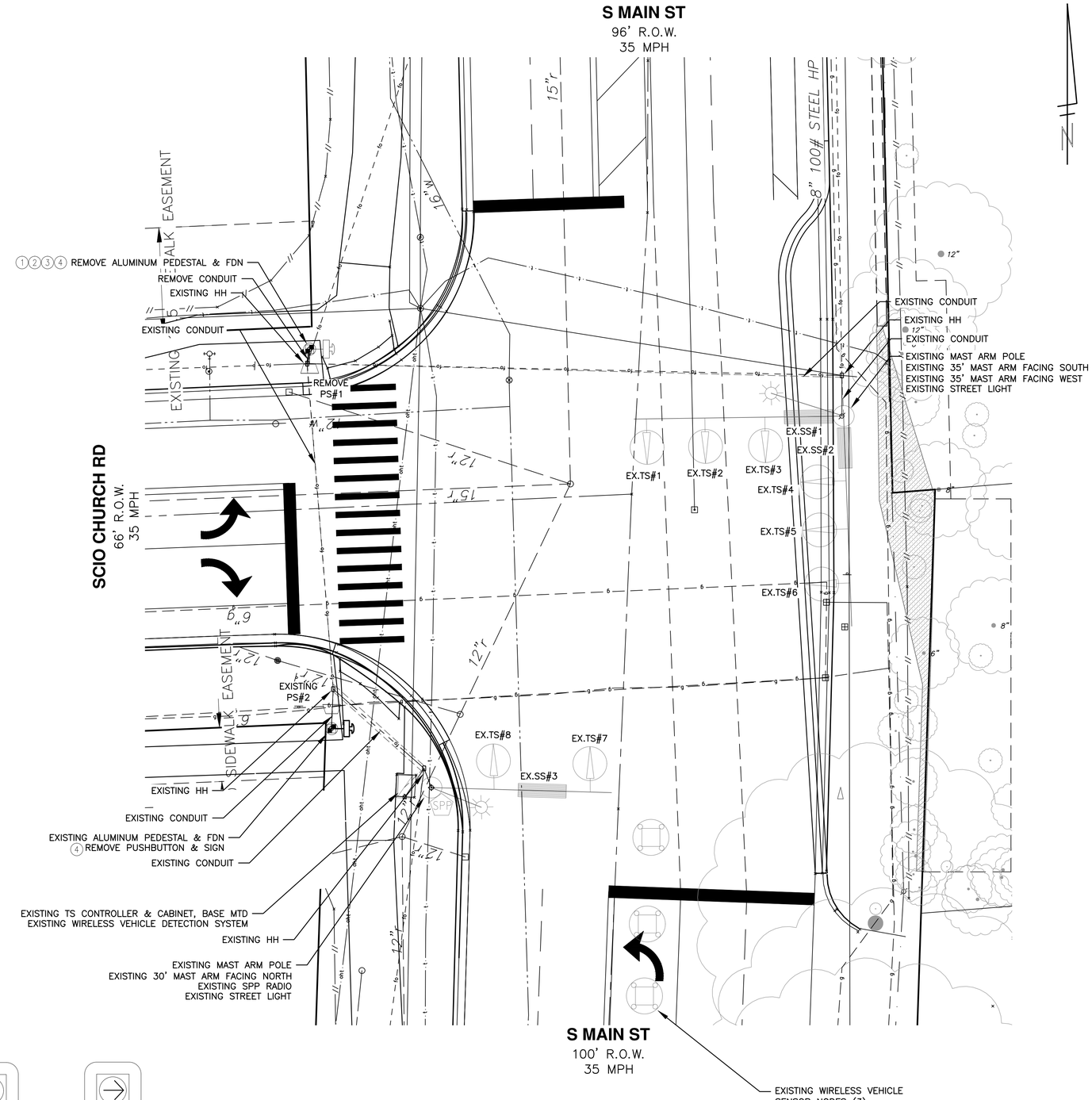
SCALE PLAN: #######

DRAWING No. 2020-029-28

SHEET No. 28 OF 38



CABLING REMOVAL DIAGRAM
NOT TO SCALE



EXISTING SS#1 & SS#3
ILLUMINATED STREET NAME SIGN
Scio Church
FACING NORTH & SOUTH

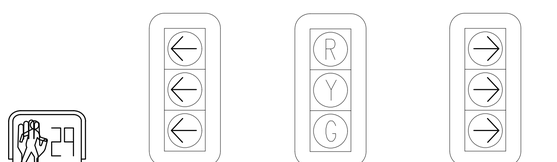
EXISTING SS#2
ILLUMINATED STREET NAME SIGN
S. Main
FACING WEST

INTERSECTION SPECIFIC NOTES:

REMOVAL OF TRAFFIC SIGNAL EQUIPMENT SHALL BE COORDINATED WITH ROAD CONSTRUCTION. TIME OF REMOVAL SHALL BE AS DIRECTED BY THE ENGINEER.

LIST OF MATERIAL

NO.	ITEM	QUANTITIES
1	DS_TS, Pedestrian, Pedestal Mtd, Rem	1 Ea
2	DS_Pedestal, Rem	1 Ea
3	DS_Pedestal Fdn, Rem	1 Ea
4	DS_Pushbutton, Rem	2 Ea
5	DS_Conduit, Rem	5 Ft



10 5 0 10 20
SCALE IN FEET

OPENINGS	31
CYCLIC WATTS	282
STEADY WATTS	304

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SOUTH MAIN STREET SIDEWALK PROJECT

SIGNAL REMOVAL PLAN

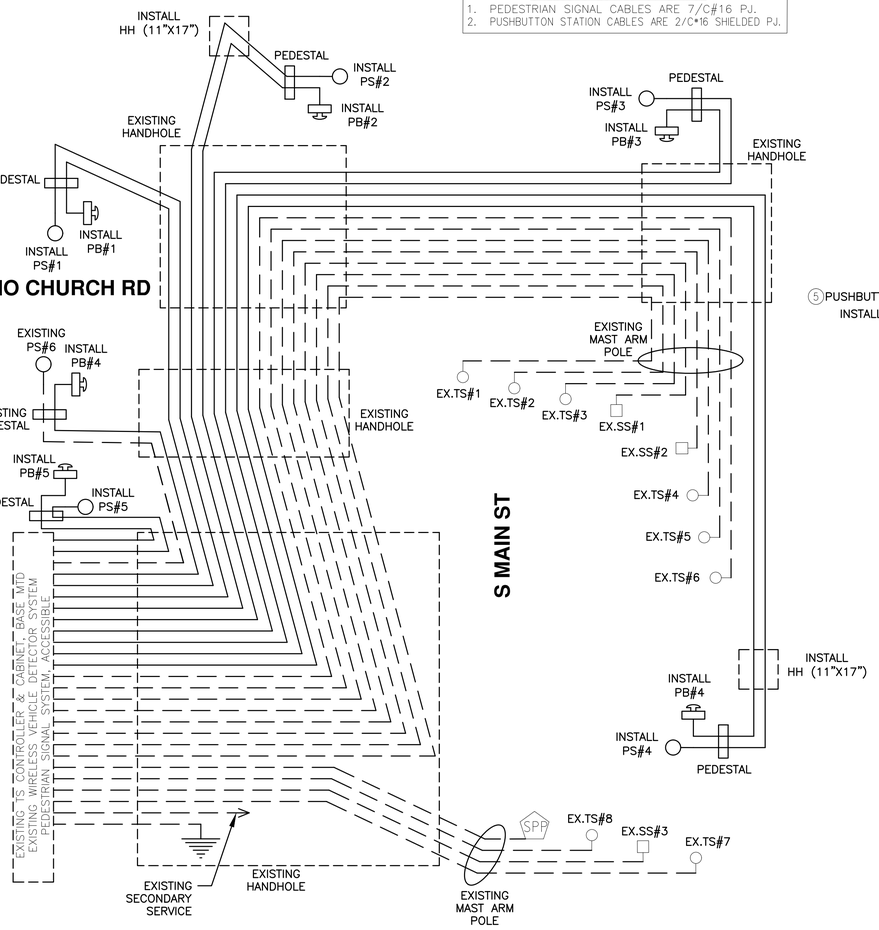
SCALE PLAN: 1" = 10'

DRAWING No.
2020-029-29

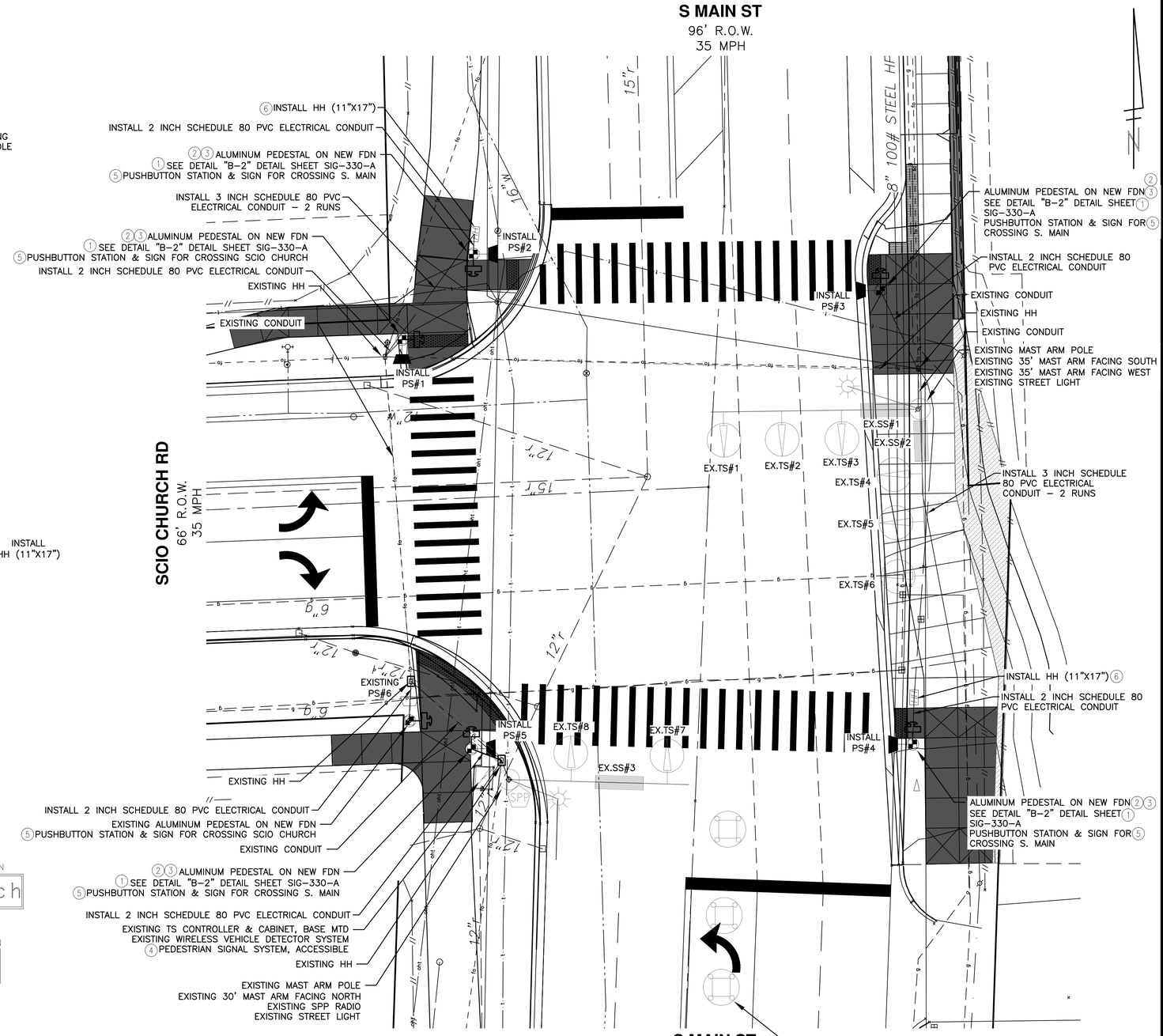
SHEET No.
29 OF 38

c:\pw_work2\d1257121\CTS-PLTS-Signals.dwg Dwg Created: 14-Jan-26 — _a2 standard bw.stb — Plot Date: 21-Jan-26

CABLES TO BE USED
UNLESS SPECIFIED OTHERWISE
1. PEDESTRIAN SIGNAL CABLES ARE 7/C#16 PJ.
2. PUSHBUTTON STATION CABLES ARE 2/C*16 SHIELDED PJ.



CABLING DIAGRAM
NOT TO SCALE



EXISTING SS#1 & SS#3
ILLUMINATED STREET NAME SIGN
Scio Church
FACING NORTH & SOUTH

EXISTING SS#2
ILLUMINATED STREET NAME SIGN
S. Main
FACING WEST

INTERSECTION SPECIFIC NOTES:

UTILIZE EXISTING CONDUIT & HANDHOLES WHERE POSSIBLE OTHERWISE INSTALL NEW AS DIRECTED BY ENGINEER.

INSTALLATION OF TRAFFIC SIGNAL EQUIPMENT SHALL BE COORDINATED WITH THE ROAD AND SIDEWALK CONSTRUCTION. TIME OF INSTALLATION SHALL BE AS DIRECTED BY THE ENGINEER.

SEE PAVEMENT MARKING PLAN SHEETS FOR SIGNING AND PAVEMENT MARKING INSTALLATIONS AND QUANTITIES.

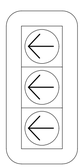
APS EQUIPMENT SHALL BE THE POLARA INS INAVIGATOR 2-WIRE APS ASSEMBLY. CONTRACTOR SHALL DELIVER THE PEDESTRIAN SIGNAL SYSTEM, ACCESSIBLE TO THE ANN ARBOR SIGNAL SHOP.

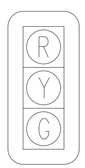
INSTALLATION OF POLES/PEDESTALS WITH PUSHBUTTONS SHALL BE COORDINATED WITH THE CONSTRUCTION OF THE NEW SIDEWALK RAMPS AND CROSSWALK PAVEMENT MARKINGS. LOCATIONS SHALL MEET CURRENT ADA REQUIREMENTS AND CRITERIA. SEE SIDEWALK GRADING PLANS.

LIST OF MATERIAL

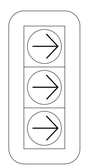
NO.	ITEM	QUANTITIES
1	DS_TS, Pedestrian, One Way Pedestal Mtd (LED) Countdown	5 Ea
2	DS_Pedestal, Alum	5 Ea
3	DS_Pedestal, Fdn	5 Ea
4	DS_Pedestrian Signal System, Accessible	1 Ea
5	DS_Pushbutton Station and Sign	6 Ea
6	Handhole Assembly, 17 inch x 30 inch	2 Ea
7	2 inch Schedule 80 PVC Electrical Conduit	55 Lft
8	3 inch Schedule 80 PVC Electrical Conduit	160 Lft

PEDESTRIAN HEADS
EXISTING PS#6
INSTALL PS#1, PS#2,
PS#3, PS#4 & PS#5


EXISTING TS#1
FACING SOUTH
EXISTING TS#4
FACING WEST



EXISTING TS#2 & TS#3
FACING SOUTH
EXISTING TS#7 & TS#8
FACING NORTH


EXISTING TS#5 & TS#6
FACING WEST

R10-3e (L)

R10-3e (R)

SIDEWALK GRADES:
FOR SIDEWALK AND ADA GRADING INFORMATION SEE ROADWAY DESIGN PLANS.

10 5 0 10 20
SCALE IN FEET

OPENINGS	35
CYCLIC WATTS	326
STEADY WATTS	304

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

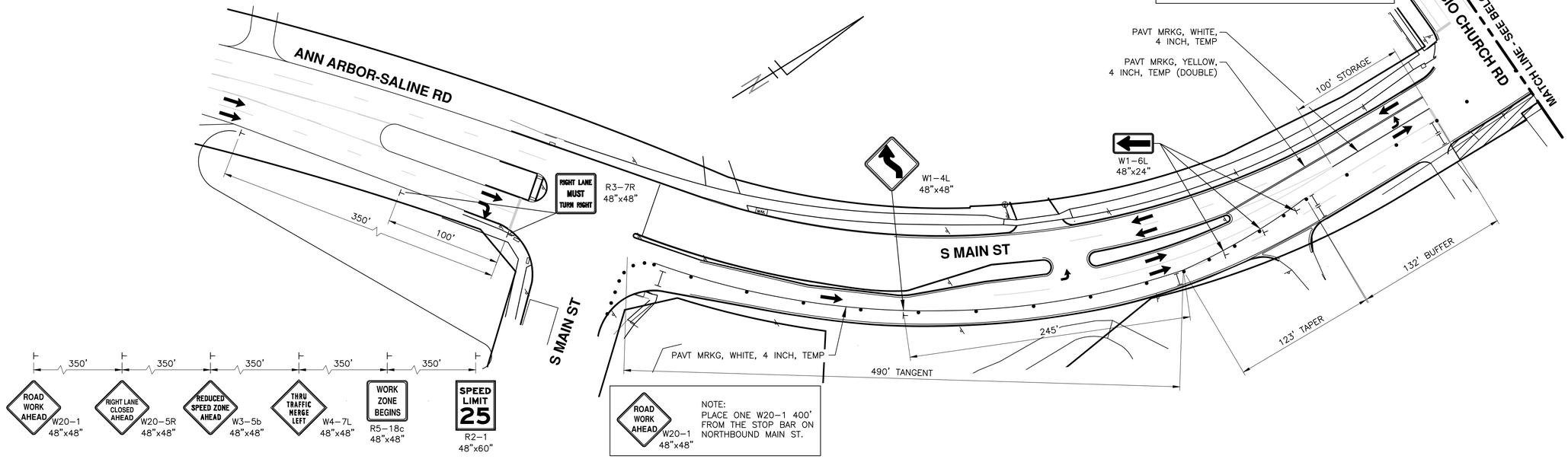
SOUTH MAIN STREET SIDEWALK PROJECT

SIGNAL CONSTRUCTION PLAN

SCALE PLAN: 1" = 10'

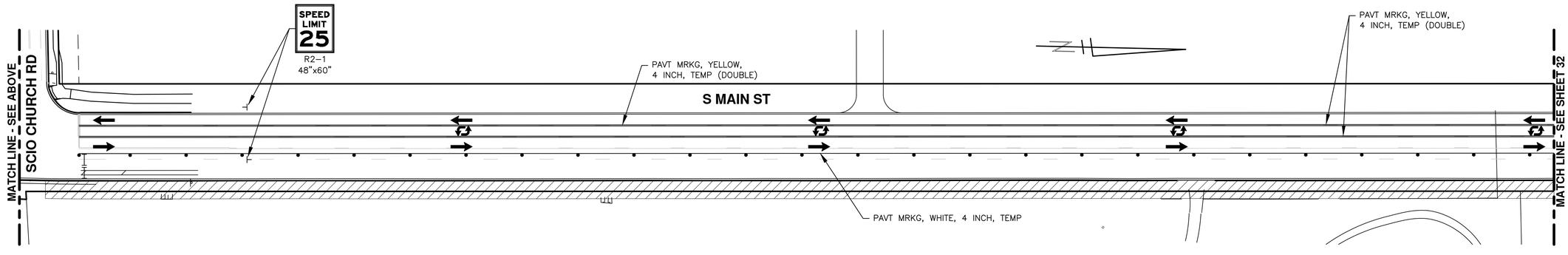
DRAWING No. 2020-029-30

SHEET No. 30 OF 38



NOTE:
1) CONTACT CITY OF ANN ARBOR SIGNAL SHOP AT 734-794-6361 TO ADJUST TRAFFIC SIGNAL PHASING AT SOUTH MAIN STREET AND STADIUM BOULEVARD DURING MOT 1.

2) REMOVE EXISTING CONFLICTING PAVEMENT MARKINGS AND REPLACE IN KIND AT END OF STAGE.



LEGEND

- TEMPORARY TRAFFIC SIGN
- BARRICADE, TYPE II, HIGH INTENSITY
- BARRICADE, TYPE III, HIGH INTENSITY
- WORK ZONE
- LANE DIRECTION
- CHANNELIZING DEVICE
- LIGHTED ARROW BOARD

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

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

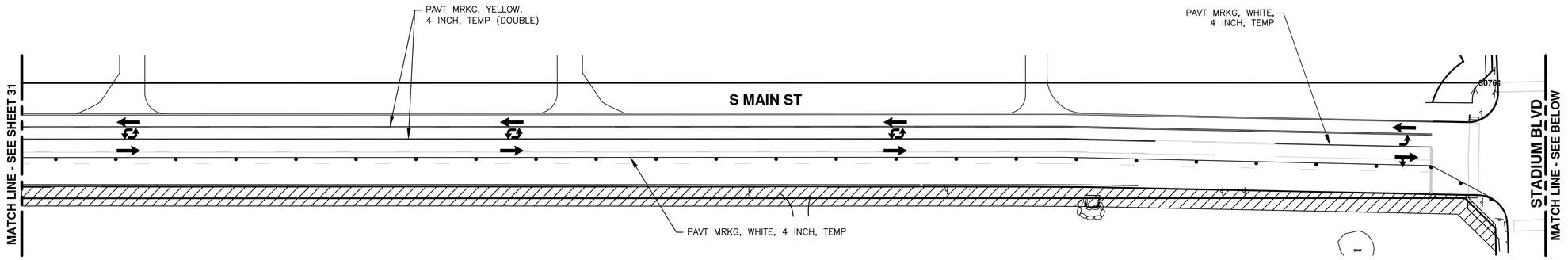
SOUTH MAIN STREET SIDEWALK PROJECT

MOT 1 - MAIN ST TWO LANE CLOSURE 1

SCALE PLAN: 1"=50' PROFILE: 1" = 2'

DRAWING No. 2020-029-31

SHEET No. 31 OF 38



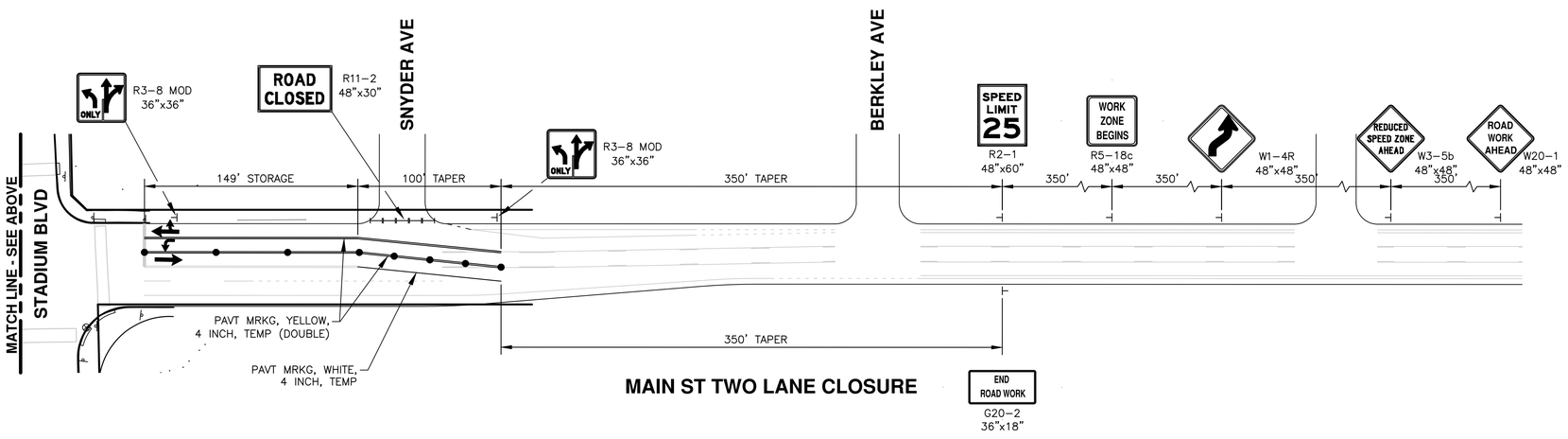
MAIN ST TWO LANE CLOSURE

ROAD WORK AHEAD
W20-1
48"x48"

NOTE:
PLACE ONE W20-1 350' FROM THE STOP BAR ON EASTBOUND AND WESTBOUND STADIUM BLVD.

NOTE:
1) CONTACT CITY OF ANN ARBOR SIGNAL SHOP AT 734-794-6361 TO ADJUST TRAFFIC SIGNAL PHASING AT SOUTH MAIN STREET AND STADIUM BOULEVARD DURING MOT 1.

2) REMOVE EXISTING CONFLICTING PAVEMENT MARKINGS AND REPLACE IN KIND AT END OF STAGE.



MAIN ST TWO LANE CLOSURE

LEGEND

- TEMPORARY TRAFFIC SIGN
- BARRICADE, TYPE II, HIGH INTENSITY
- BARRICADE, TYPE III, HIGH INTENSITY
- WORK ZONE
- LANE DIRECTION
- CHANNELIZING DEVICE
- LIGHTED ARROW BOARD

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 E HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

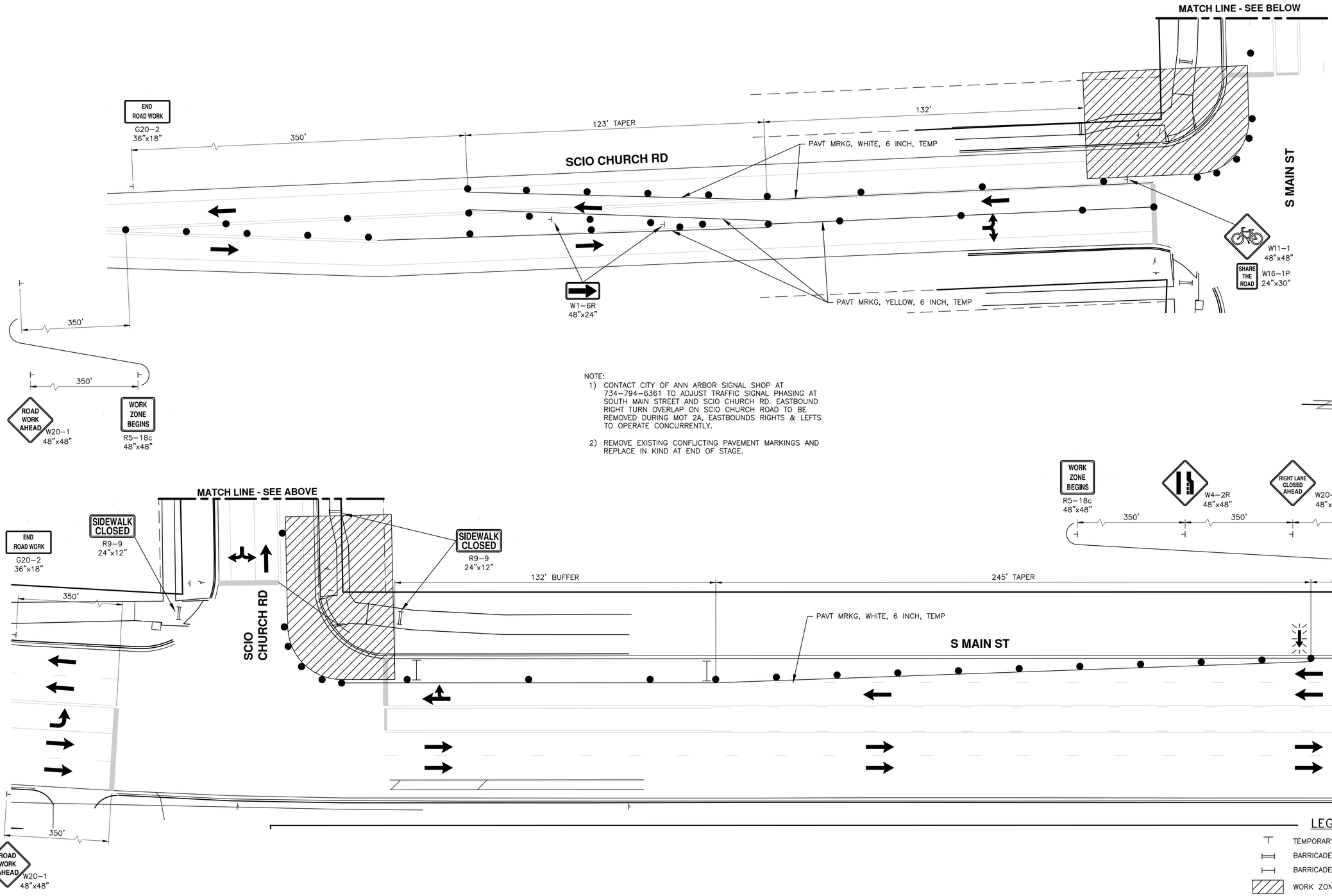
SOUTH MAIN STREET SIDEWALK PROJECT

MOT 1 - MAIN ST TWO LANE CLOSURE 2

SCALE PLAN: 1"=50' PROFILE: 1"=2'

DRAWING No. 2020-029-32

SHEET No. 32 OF 38



NOTE:

1) CONTACT CITY OF ANN ARBOR SIGNAL SHOP AT 734-794-6361 TO ADJUST TRAFFIC SIGNAL PHASING AT SOUTH MAIN STREET AND SCIO CHURCH RD. EASTBOUND RIGHT TURN OVERLAP ON SCIO CHURCH ROAD TO BE REMOVED DURING MOT 2A, EASTBOUNDS RIGHTS & LEFTS TO OPERATE CONCURRENTLY.

2) REMOVE EXISTING CONFLICTING PAVEMENT MARKINGS AND REPLACE IN KIND AT END OF STAGE.

NORTHWEST QUADRANT SCIO CHURCH RD

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

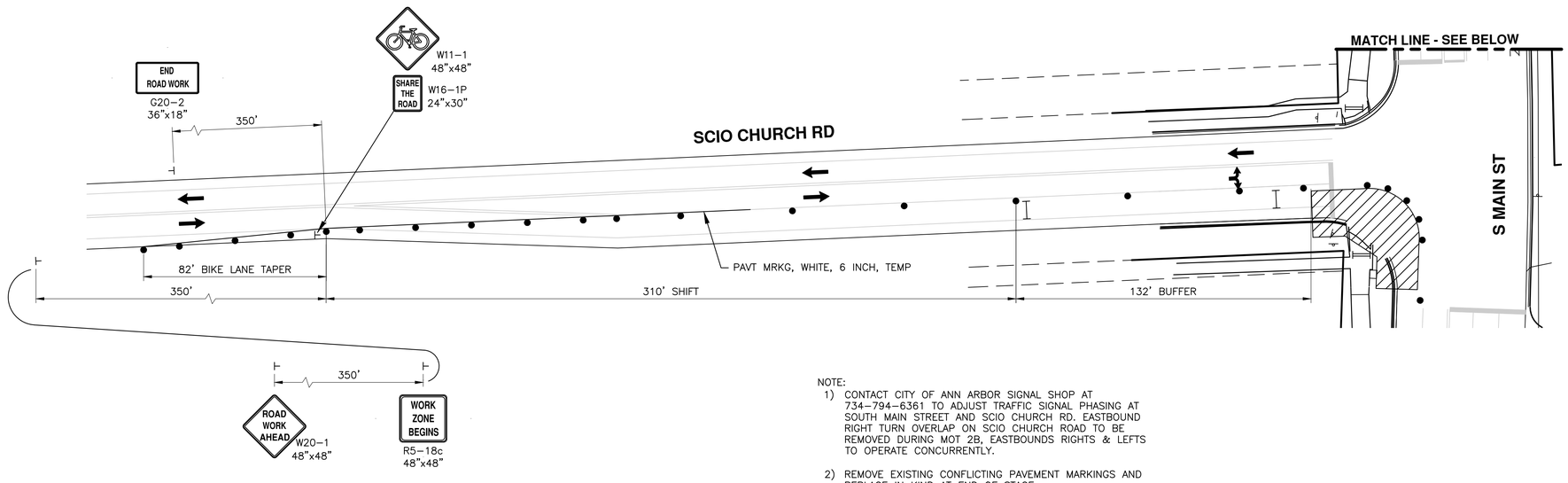
SOUTH MAIN STREET SIDEWALK PROJECT

MOT 2A - NORTHWEST QUADRANT SCIO CHURCH RD

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

DRAWING No. 2020-029-33

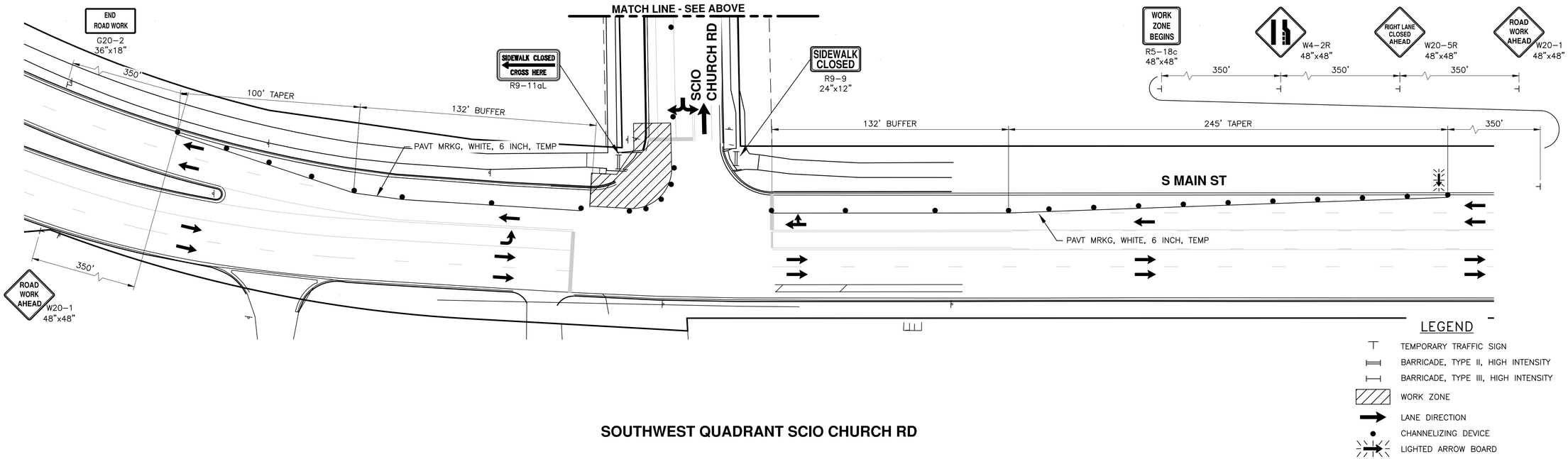
SHEET No. 33 OF 38



NOTE:

1) CONTACT CITY OF ANN ARBOR SIGNAL SHOP AT 734-794-6361 TO ADJUST TRAFFIC SIGNAL PHASING AT SOUTH MAIN STREET AND SCIO CHURCH RD. EASTBOUND RIGHT TURN OVERLAP ON SCIO CHURCH ROAD TO BE REMOVED DURING MOT 2B, EASTBOUNDS RIGHTS & LEFTS TO OPERATE CONCURRENTLY.

2) REMOVE EXISTING CONFLICTING PAVEMENT MARKINGS AND REPLACE IN KIND AT END OF STAGE.



SOUTHWEST QUADRANT SCIO CHURCH RD

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

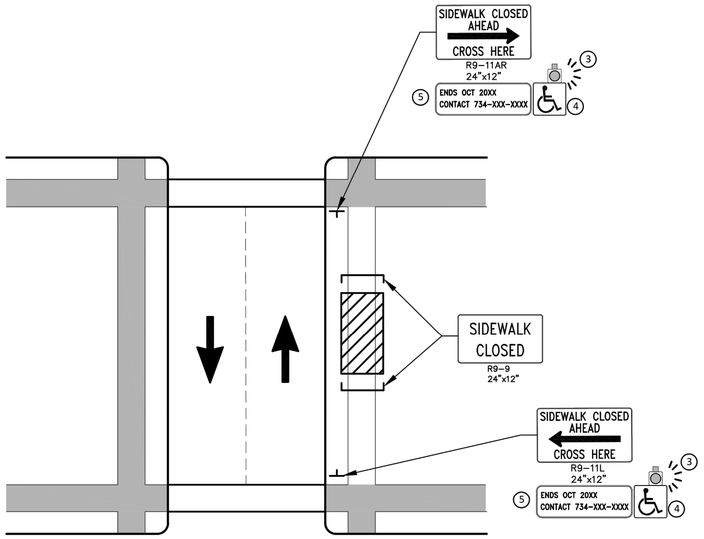
SOUTH MAIN STREET SIDEWALK PROJECT

MOT 2B - SOUTHWEST QUADRANT SCIO CHURCH RD

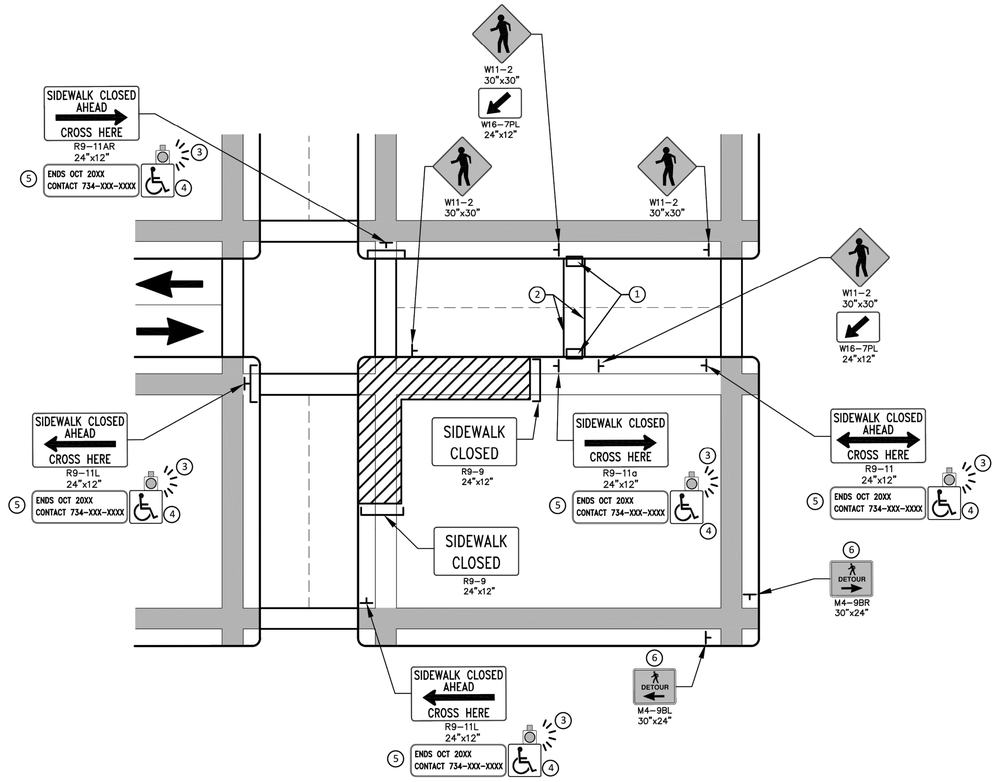
SCALE PLAN: 1"=30' PROFILE: 1"=2'

DRAWING No. 2020-029-34

SHEET No. 34 OF 38



PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET



OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS
(FOR CORNER SIDEWALK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK)

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED. PROVIDE A FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE THIS WORK WITH THE ENGINEER A MINIMUM OF 72 HOURS (NOT INCLUDING WEEKENDS & HOLIDAYS) PRIOR TO THE BEGINNING OF WORK THAT REQUIRES A SIDEWALK CLOSURE.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

WHEN THE ENGINEER DETERMINES THAT THE CONTRACTOR'S OPERATIONS OR PLACEMENT OF TRAFFIC CONTROL DEVICES HAS CAUSED A SITUATION THAT THE VISIBILITY OF IS REDUCED ENOUGH TO CREATE A HAZARD, THE TRAFFIC CONTROL DEVICES SHALL BE DELINEATED WITH FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO ADDITIONAL COST TO THE PROJECT.

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE:

1. PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE UTILIZING BYPASSES.
2. WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.
3. WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS AS SHOWN ON THE PROJECT PLANS.

SPECIFIC NOTES

(1) TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.

(2) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(3) AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE SHALL BE PROVIDED FOR SIGHT-IMPAIRED PEDESTRIANS.

(4) THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHOULD BE DISPLAYED WHEN ANY WALKWAY THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE TPAR COMPLIANT. THE SYMBOL OF ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHALL BE POSTED AND AN ALTERNATE ROUTE SHALL BE POSTED WHEN THE PRIMARY TEMPORARY PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.

(5) TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHALL INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.

(6) PEDESTRIAN DETOUR TRAILBLAZING SIGNS SHALL BE USED IF THE PEDESTRIAN DETOUR IS IN A LOCATION OTHER THAN ACROSS THE STREET FROM THE SIDEWALK CLOSURE.

PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MMUTCD, PART 6.
2. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.
3. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHALL BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.
4. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF NCHRP 350 AND THE MMUTCD SHALL BE USED.
5. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
6. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.
7. WHEN DIRECTED BY THE ENGINEER, OR STATED ON THE PLANS, THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL BY THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC. NO WORK SHALL BE ALLOWED TO BEGIN UNTIL THIS PLAN IS APPROVED BY THE ENGINEER IN WRITING.
8. PROVISION OF THE TPAR AND ALL OF ITS ELEMENTS, INCLUDING BUT NOT LIMITED TO, CREATION OF THE TEMPORARY PEDESTRIAN CONTROL PLAN, SIGNS, CHANNELIZING DEVICES, BARRICADES, TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "MINOR TRAF DEVICES."

LEGEND

- SIGN
- EXISTING PEDESTRIAN SURFACE
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- BARRIER
- SIDEWALK BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DEVICE

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
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ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

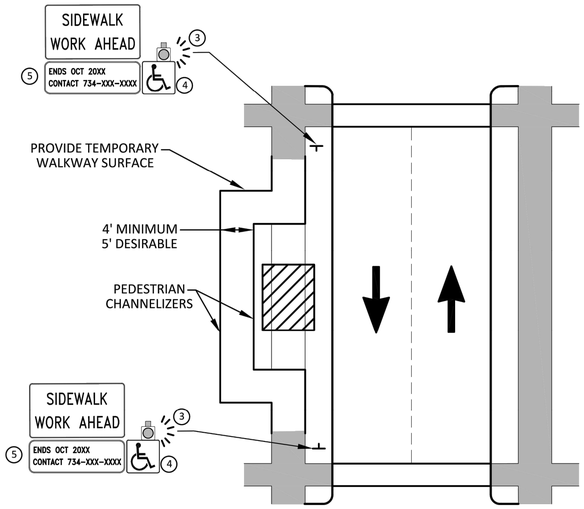
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SOUTH MAIN STREET SIDEWALK
PROJECT

MOT PEDESTRIAN DETAILS 1

SCALE : NTS

DRAWING No.
2020-029-35

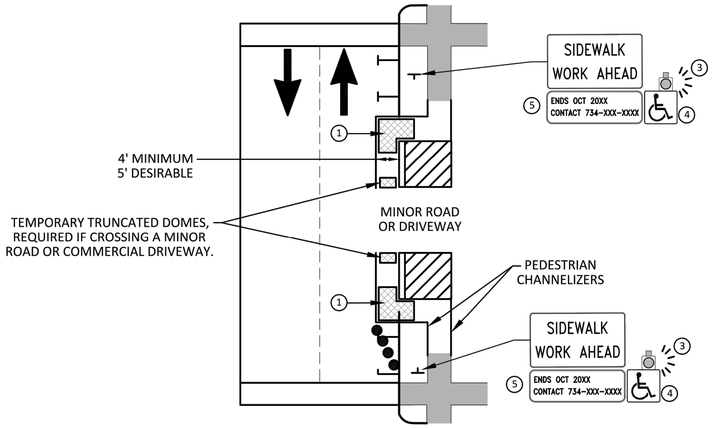
SHEET No.
35 OF 38



BYPASS ON ADJACENT AVAILABLE
RIGHT OF WAY

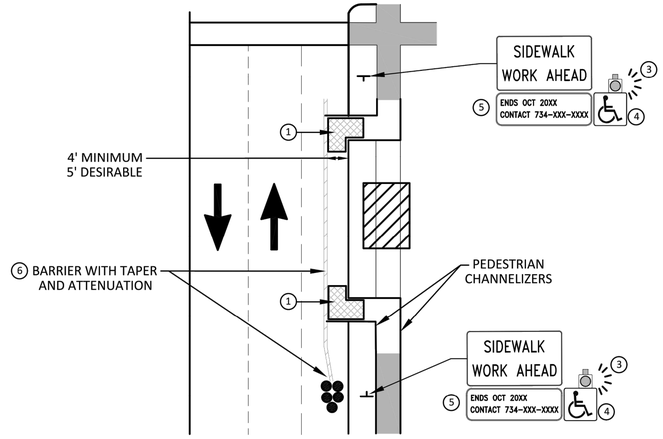
BYPASS TYPE A

NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED
SPEED OF 45 MPH OR LESS.



SIDEWALK BYPASS USING PARKING OR
SHOULDER ON LOW SPEED ROADWAY

BYPASS TYPE B



SIDEWALK BYPASS USING
SHOULDER OR PARKING LANE ON
HIGH SPEED ROADWAY

BYPASS TYPE C

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

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POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

WHEN THE ENGINEER DETERMINES THAT THE CONTRACTOR'S OPERATIONS OR PLACEMENT OF TRAFFIC CONTROL DEVICES HAS CAUSED A SITUATION THAT THE VISIBILITY OF A TRAFFIC CONTROL DEVICE IS REDUCED ENOUGH TO CREATE A HAZARD, THE TRAFFIC CONTROL DEVICES SHALL BE DELINEATED WITH FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO ADDITIONAL COST TO THE PROJECT.

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3. WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS AS SHOWN ON THE PROJECT PLANS.

SPECIFIC NOTES

1. TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
2. 5 DEVICE TAPER 25 FEET LONG, RECOMMENDED WHEN THE CLOSED AREA WAS USED AS AN INTERMITTENT TRAFFIC LANE OR BYPASS LANE. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
3. AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE SHOULD BE PROVIDED FOR SIGHT-IMPAIRED PEDESTRIANS.
4. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE DISPLAYED WHEN ANY WALKWAY THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE TPAR COMPLIANT. THE SYMBOL OF ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHALL BE POSTED AND AN ALTERNATE ROUTE SHALL BE POSTED WHEN THE PRIMARY TEMPORARY PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.
5. TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHALL INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.
6. SEE MMUTCD FOR GUIDANCE ON PLACEMENT AND USAGE OF BARRIER.

LEGEND

- SIGN
- EXISTING PEDESTRIAN SURFACE
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- BARRIER
- SIDEWALK BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DEVICE

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

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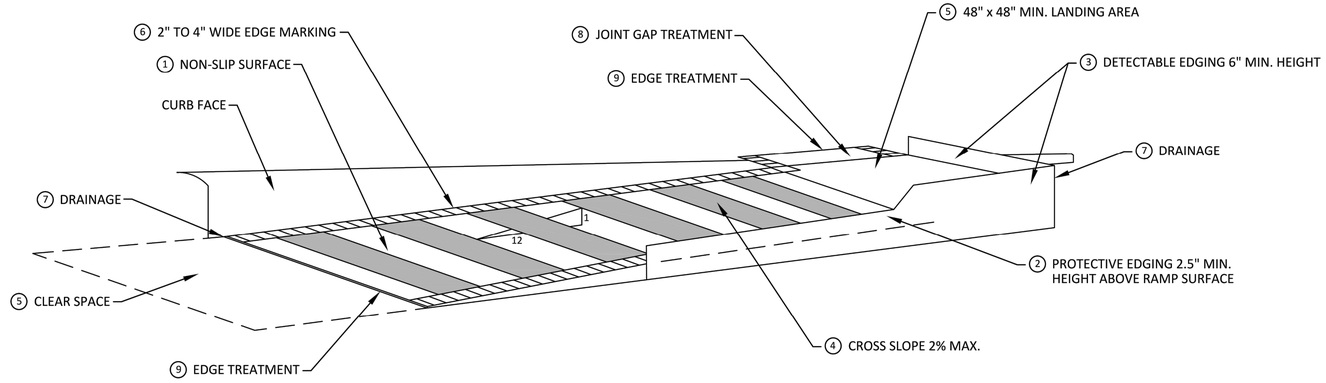
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SOUTH MAIN STREET SIDEWALK
PROJECT

MOT PEDESTRIAN DETAILS 2

SCALE : NTS

DRAWING No.
2020-029-36

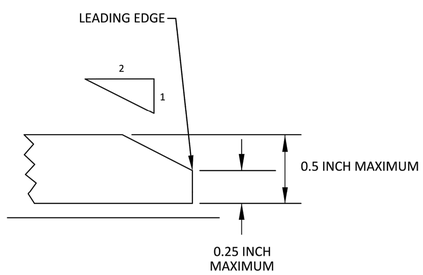
SHEET No.
36 OF 38



TEMPORARY CURB RAMP
PARALLEL TO CURB

SPECIFIC NOTES

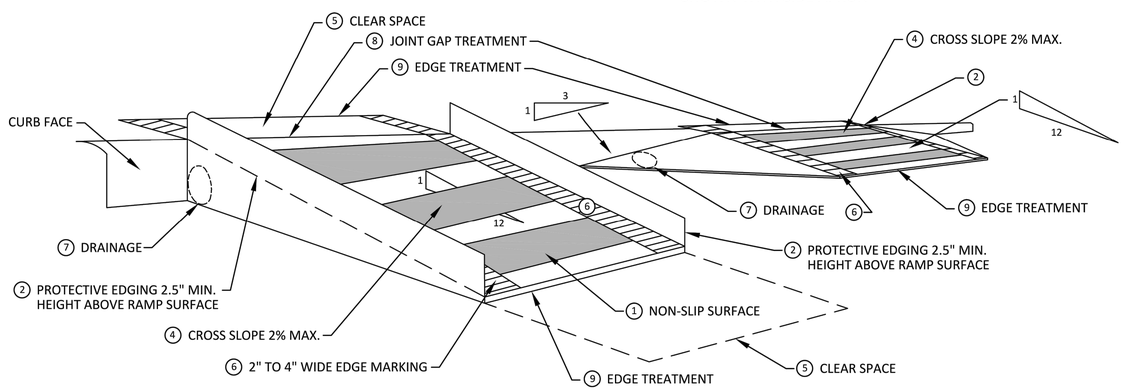
1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
2. PROTECTIVE EDGING WITH A 2.5" MIN. HEIGHT ABOVE THE RAMP SHALL BE PLACED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3. PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING ANYTIME A HANDRAIL IS REQUIRED, AND ANYTIME THE PATH CHANGES DIRECTION. THIS INCLUDES A TURN ONTO THE RAMP FROM THE PATH. DETECTABLE EDGING MUST BEGIN A MAXIMUM OF 2.5" ABOVE THE RAMP SURFACE, AND EXTEND AT LEAST 6" ABOVE THE RAMP SURFACE. CONTRASTING COLOR SHALL BE PLACED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. CURB RAMPS AND LANDINGS SHALL HAVE A 2% MAX. CROSS SLOPE.
5. CLEAR SPACE OF 48" x 48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR, 2" TO 4" WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.
7. WATER FLOW IN THE GUTTER SYSTEM SHALL NOT BE IMPEDED.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHOULD BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2" HEIGHT.



9 EDGE TREATMENT

SHOWN WITH PROTECTIVE EDGE

SHOWN WITH SIDE APRON



TEMPORARY CURB RAMP
PERPENDICULAR TO CURB

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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301 E HURON STREET
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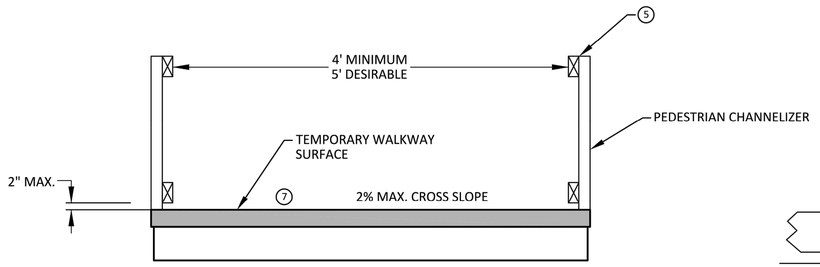
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SOUTH MAIN STREET SIDEWALK PROJECT

MOT PEDESTRIAN DETAILS 3

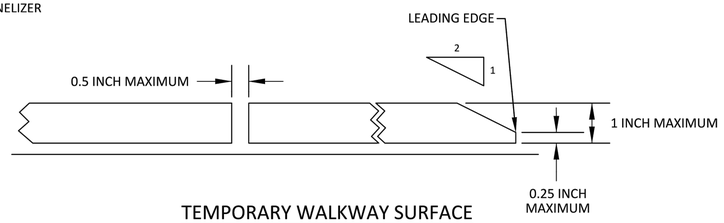
SCALE : NTS

DRAWING No. 2020-029-37

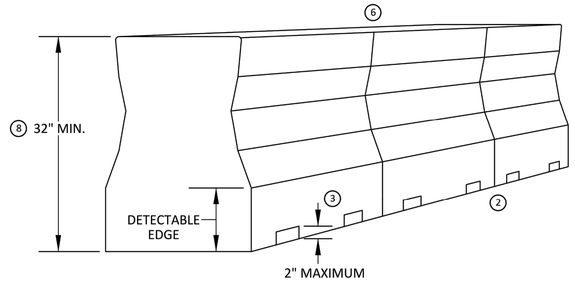
SHEET No. 37 OF 38



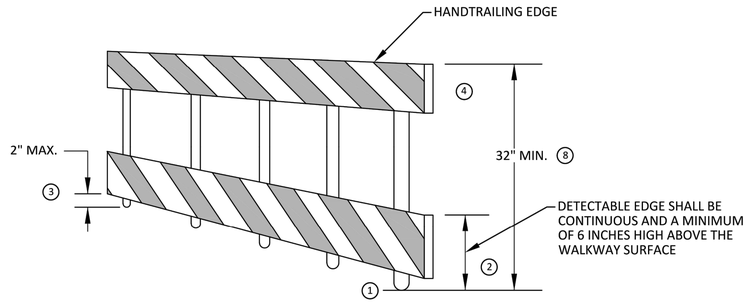
TEMPORARY PEDESTRIAN ACCESS



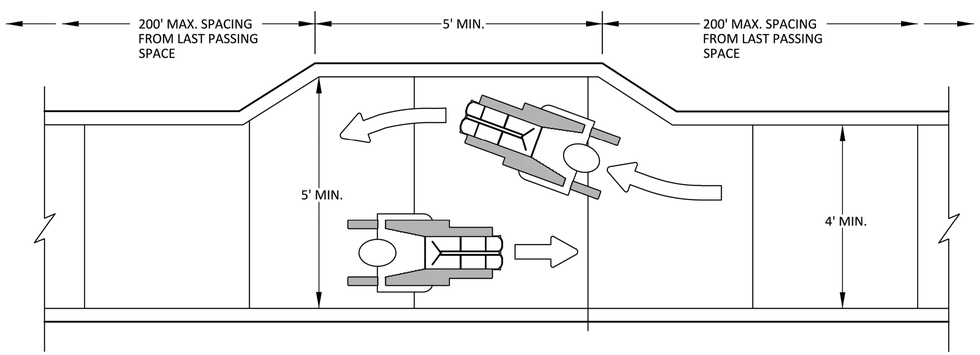
TEMPORARY WALKWAY SURFACE



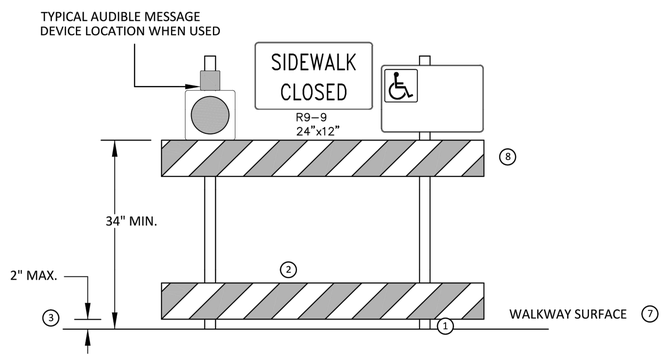
PEDESTRIAN CHANNELIZER USING A BARRIER (MINIMUM REQUIREMENTS)



PEDESTRIAN CHANNELIZER (MINIMUM REQUIREMENTS)



NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL



SIDEWALK BARRICADE

GENERAL NOTES

RAILINGS OR OTHER OBJECTS MAY PROTRUDE A MAXIMUM OF 4 INCHES INTO THE WALKWAY CLEAR SPACE WHEN LOCATED A MINIMUM OF 27 INCHES ABOVE THE WALKWAY SURFACE.

ANY PEDESTRIAN DEVICES USED TO PROVIDE POSITIVE PROTECTION FOR PEDESTRIANS OR WORKERS SHALL MEET NCHRP 350 CRASHWORTHY REQUIREMENTS APPROPRIATE FOR THE BARRIER'S APPLICATION.

BARRICADES SHALL BE PLACED CONTINUOUSLY ACROSS THE ENTIRE WIDTH OF THE WALKWAY SURFACE BEING CLOSED.

SPECIFIC NOTES

(1) ANY TRIPPING HAZARD IN THE WALKWAY NEEDS A DETECTABLE EDGE. BALLAST SHALL BE LOCATED BEHIND OR INTERNAL TO THE DEVICE. ANY SUPPORT ON THE FRONT OF THE DEVICE SHALL NOT EXTEND INTO THE 48 INCH MINIMUM WALKWAY CLEAR SPACE AND SHALL NOT EXCEED 0.5 INCHES IN HEIGHT ABOVE THE WALKWAY SURFACE.

(2) DETECTABLE EDGES SHALL BE CONTINUOUS AND A MINIMUM OF 6 INCHES IN HEIGHT ABOVE WALKWAY SURFACE AND HAVE COLOR MARKINGS CONTRASTING WITH THE WALKWAY SURFACE.

(3) DEVICES SHALL NOT BLOCK WATER DRAINAGE FROM THE WALKWAY. A GAP HEIGHT OR OPENING FROM THE WALKWAY SURFACE UP TO A MAXIMUM OF 2 INCHES IS ALLOWED FOR DRAINAGE PURPOSES.

(4) PROVIDE A HANDRAIL ON BOTH SIDES OF THE RAMP IF THE RAMP IS NOT EXPOSED TO VEHICLE TRAFFIC AND HAS A TOTAL RISE GREATER THAN 6 INCHES, AND A LENGTH GREATER THAN 72 INCHES.

- ENSURE THE HANDRAIL IS 1.25 AND 1.5 INCHES WIDE AND CONFIGURED TO BE A "GRASPABLE" CROSS-SECTION.

SEE CONSTRUCTION SUBSECTION 2.A FOR ADDITIONAL DETAILS.

WHEN THE RAMP IS EXPOSED TO TRAFFIC, IN LIEU OF HANDRAILS, USE A PROTECTIVE EDGE 2.5 INCHES MINIMUM HEIGHT ABOVE THE RAMP SURFACE OR 1:10 FLARE ON BOTH SIDES OF THE RAMP.

(5) ALL DEVICES SHALL BE FREE OF SHARP OR ROUGH EDGES, AND FASTENERS (BOLTS) SHALL BE ROUNDED TO PREVENT HARM TO HANDS, ARMS OR CLOTHING OF PEDESTRIANS.

(6) ALL DEVICES USED TO CHANNELIZE PEDESTRIAN FLOW SHOULD INTERLOCK SUCH THAT GAPS DO NOT ALLOW PEDESTRIANS TO STRAY FROM THE INTENDED CHANNELIZED PATH.

(7) A WALKWAY SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED.

(8) LONGITUDINAL CHANNELIZING DEVICES FOR PEDESTRIANS SHALL BE 32 INCHES IN HEIGHT OR GREATER.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SOUTH MAIN STREET SIDEWALK
PROJECT

MOT PEDESTRIAN DETAILS 4

SCALE : NTS

DRAWING No.
2020-029-38

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