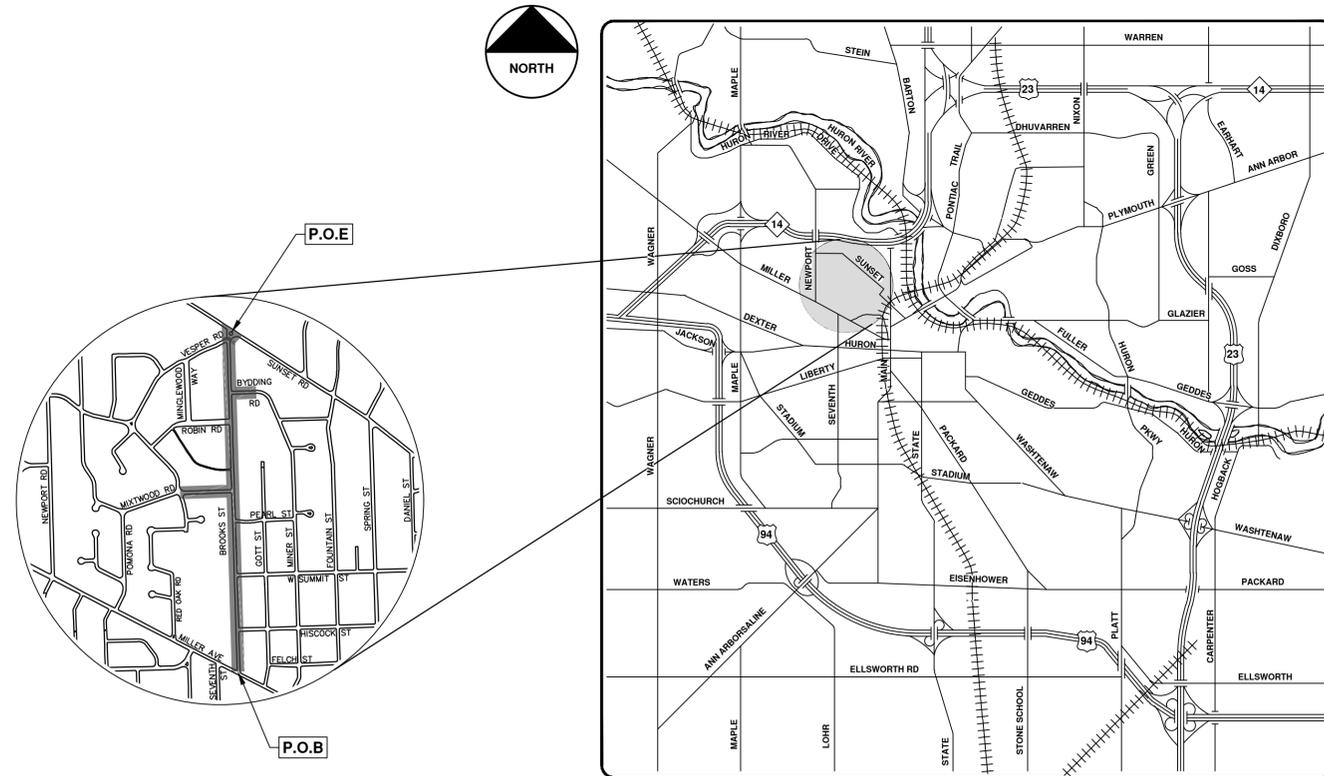




CITY OF ANN ARBOR ENGINEERING

BROOKS STREET IMPROVEMENTS

RFP No. 23-09, FILE No. 2021016



VICINITY MAP

PROJECT DESCRIPTION

This project includes water main replacement, storm water management improvements, road-narrowing and new sidewalk. The limits of disturbance include the entire Brooks Street corridor (0.70 mi.), 1 block of Mixwood Street (0.13 mi) and 1/2 block of Bydding Road (0.07 mi.)

The following project quantities are approximate:

2,400 linear feet of 8-inch watermain, 25 storm water structures, 370 linear feet of 12-inch storm water pipe, 200 linear feet of 36-inch storm water pipe, a rain garden, 15,600 square yards of HMA surface removal and 13,500 square yards of HMA resurfacing, 2,750 linear feet of 5-foot wide sidewalk, 3,500 linear feet of concrete curb and gutter removal and replacement for utility trenching, road-narrowing, and the Sunset intersection reconfiguration.

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 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	STANDARD NOTES
3	LEGEND
4	WATER MAIN DETAILS
5	STORM SEWER AND TRENCH DETAILS
6	SAND FILTER OVERFLOW STRUCTURE DETAILS
7	MISC. DETAILS
8 - 11	TYPICAL SECTIONS
12	CONCRETE SPEED TABLE DETAIL
13	CONCRETE RAISED CROSS WALK DETAILS
14 - 17	ALTERNATIVE PEDESTRIAN ROUTE DETAILS
18 - 19	MAINTENANCE OF TRAFFIC
20 - 23	BROOKS STREET - REMOVALS
24	MIXTWOOD ROAD - REMOVALS
25	BYDDING RD - REMOVALS
26 - 29	BROOKS STREET WATER MAIN
30 - 31	MIXTWOOD ROAD WATER MAIN AND BROOKS STREET WATER MAIN RELOCATION
32 - 34	STORM SEWER
35	RAIN GARDEN VEGETATION AND SEED MIX PLAN
36	INFILTRATION TRENCH AND CONCRETE SPILLWAY DETAIL
37 - 44	PROPOSED ROAD - BROOKS ST
45 - 46	PROPOSED ROAD - MIXTWOOD ST
47	PROPOSED ROAD - BYDDING RD
48 - 49	INTERSECTION GRADES
50 - 53	BROOKS ST SIDEWALK RIGHT
54 - 56	BROOKS ST SIDEWALK LEFT
57	BYDDING RD SIDEWALK LEFT

PREPARED UNDER THE SUPERVISION OF

Christopher Carson
CHRISTOPHER CARSON, P.E. - MI LICENSE No. 47156

3/13/2023
DATE



REV.	DESCRIPTION	DATE	CC/DF/AG	TB	CHECKED
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

COVER SHEET

SCALE
DRAWING No.
2021016-1

SHEET No.
1 OF 57

EXISTING LEGEND

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

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



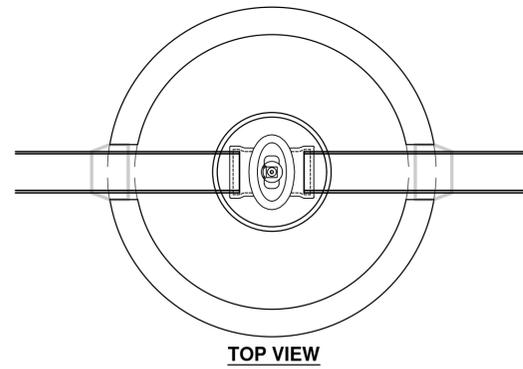
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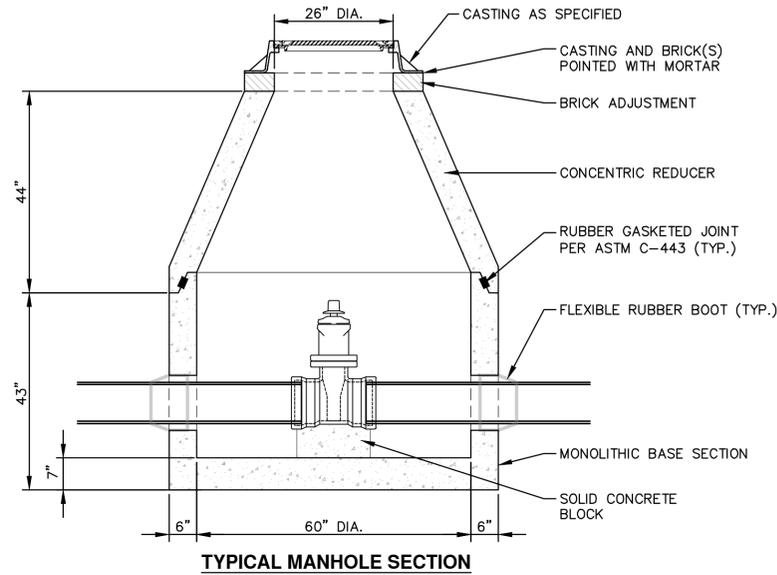


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROOKS STREET IMPROVEMENTS

SCALE: NTS
DRAWING No. 2021016-3
SHEET No. 3 OF 57



TOP VIEW

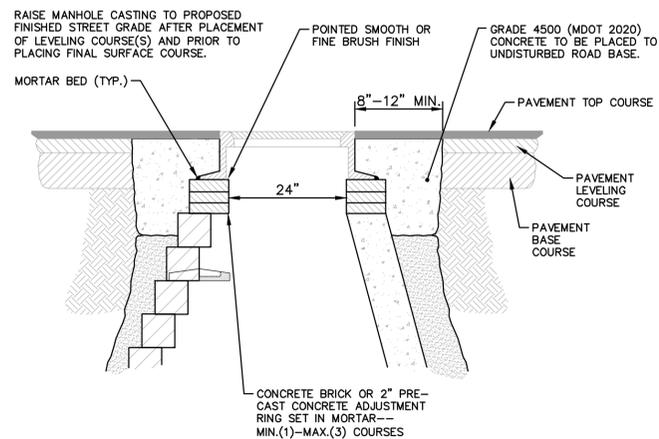


TYPICAL MANHOLE SECTION

NOTES:

1. PRECAST MANHOLE PER ASTM C-478.
2. REINFORCING IN WALLS TO BE ONE LAYER OF 2" X 8" W3/W2.9 WELDED WIRE MESH. CIRCUMFERENTIAL REINFORCEMENT = 0.18 SQ. IN./VERT. FT.
3. BASE SLAB TO BE REINFORCED WITH ONE LAYER OF #4 REBAR AT 12" C-C, E.W. AREA/STEEL = .20 SQ. IN./FT E.W.

PRECAST GATE WELL (WATERMAINS 16 INCH AND SMALLER) SD-W-3



- NOTE:
1. IF MANHOLE WILL BE PLACED IN GRAVEL ROAD, CASTING TO BE SET 6" TO 8" BELOW ROADWAY GRADE. ALL CONSTRUCTION METHODS SHALL REMAIN AS SHOWN ABOVE.

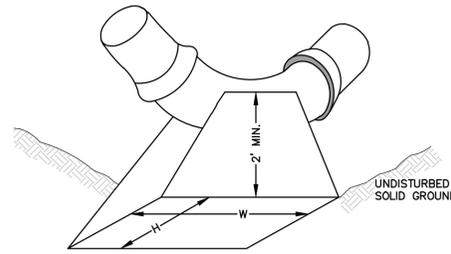
MANHOLE CASTING ADJUSTMENT SD-GU-5

MINIMUM STANDARDS
 THE MDT GRADE 3500 OR P-NC CONCRETE AT THE FITTING FACE SHALL EXTEND TO WITHIN 2" OF THE BELL AND SHALL EXTEND FROM THE FITTING FACE A MINIMUM OF 2' TO THE UNDISTURBED SOLID GROUND.
 THE DIMENSIONS OF THE THRUST BLOCK AT THE FACE OF THE UNDISTURBED SOLID GROUND SHALL BE AS SHOWN IN THE TABLE BELOW.
 IF THERE ISN'T SUFFICIENT SPACE FOR THE INSTALLATION OF THE THRUST BLOCK WITHOUT INTERFERENCE WITH OTHER SERVICES, ANOTHER ARRANGEMENT SATISFACTORY TO THE ENGINEER SHALL BE USED.

FITTINGS I.D.	PLUG TEE CROSS	BENDS								HYDRANT	
		90°		45°		22½°		11½°		W	H
INCHES	W	H	W	H	W	H	W	H	W	H	
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.5	
6	2.0	1.5	2.0	2.0	2.0	1.0	1.0	1.0	1.0	2.0	
8	2.5	2.0	3.5	2.0	2.0	2.0	1.0	1.0	1.0	2.5	
12	3.5	3.0	5.5	3.0	3.5	2.5	2.0	2.0	2.0	1.0	
16	6.0	3.5	6.0	4.0	5.0	3.0	3.5	2.5	2.0	2.0	

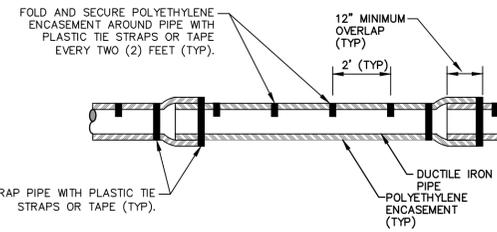
FOR FITTING SIZES LARGER THAN 16", THRUST BLOCK DIMENSIONS SHALL BE AS SPECIFIED BY ENGINEER.

W = WIDTH IN FEET
 H = HEIGHT IN FEET



NOTE:
 THESE ARE MINIMUM STANDARDS. WHERE SOIL CONDITIONS DICTATE, ADJUSTMENTS IN SIZE SHALL BE MADE AS DIRECTED BY THE PUBLIC SERVICES AREA ADMINISTRATOR.

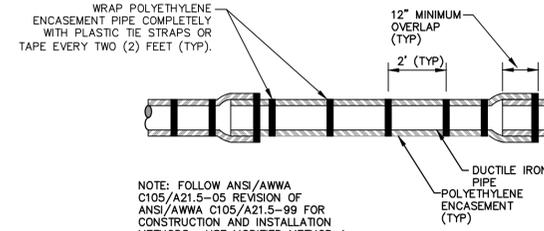
THRUST BLOCK SD-W-2



NOTE: FOLLOW ANSI/AWWA C105/A21.5-05 REVISION OF ANSI/AWWA C105/A21.5-99 FOR CONSTRUCTION AND INSTALLATION METHODS. USE MODIFIED METHOD A

APPLIES TO: POLYETHYLENE WRAPPED D.I. WATERMAIN SEE PLANS FOR LOCATIONS

(DRY INSTALLATION)

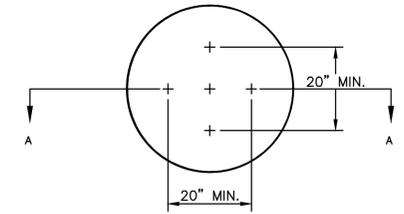


NOTE: FOLLOW ANSI/AWWA C105/A21.5-05 REVISION OF ANSI/AWWA C105/A21.5-99 FOR CONSTRUCTION AND INSTALLATION METHODS. USE MODIFIED METHOD A

APPLIES TO: POLYETHYLENE WRAPPED D.I. WATERMAIN SEE PLANS FOR LOCATIONS

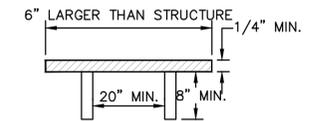
(WET INSTALLATION)

POLYETHYLENE ENCASUREMENT SD-W-7



NOTE: PLATE MAY BE CIRCULAR, SQUARE OR RECTANGULAR

SECTION A - A

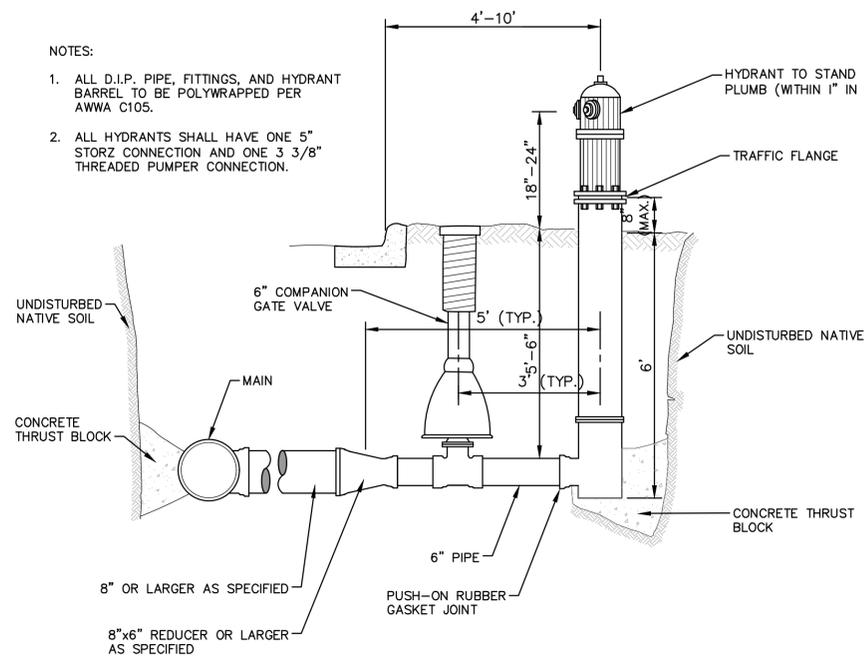


1/4" MIN. THICKNESS AND SUFFICIENT TO CARRY THE CONSTRUCTION LOAD.

STRUCTURE PLATE SD-GU-8

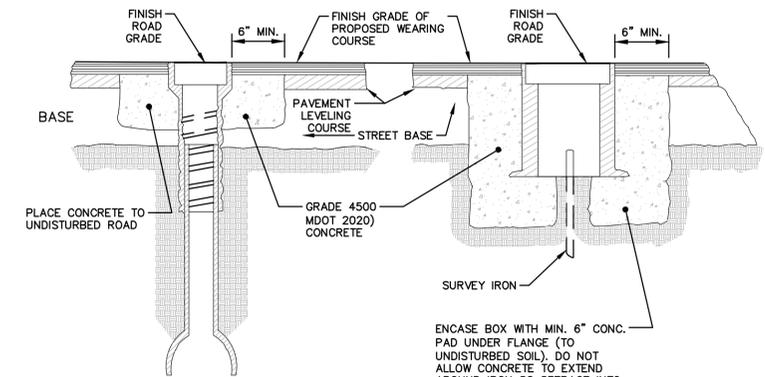
NOTES:

1. ALL D.I.P. PIPE, FITTINGS, AND HYDRANT BARREL TO BE POLYWRAPPED PER AWWA C105.
2. ALL HYDRANTS SHALL HAVE ONE 5" STORZ CONNECTION AND ONE 3 3/8" THREADED PUMPER CONNECTION.



FIRE HYDRANT ASSEMBLY SD-W-1

WATER OR GAS VALVE BOX ADJUSTMENT MONUMENT BOX ADJUSTMENT



- NOTES:
1. GAS VALVE BOXES TO BE ADJUSTED BY THE GAS COMPANY.
 2. PLACE CENTER OF [MONUMENT] BOX OVER SURVEY IRON.
 3. RAISE CASTING TO PROPOSED FINISH STREET GRADE AFTER PLACEMENT OF LEVELING COURSE(S) AND PRIOR TO PLACING FINAL SURFACE COURSE.

VALVE AND MONUMENT BOX ADJUSTMENT SD-GU-6

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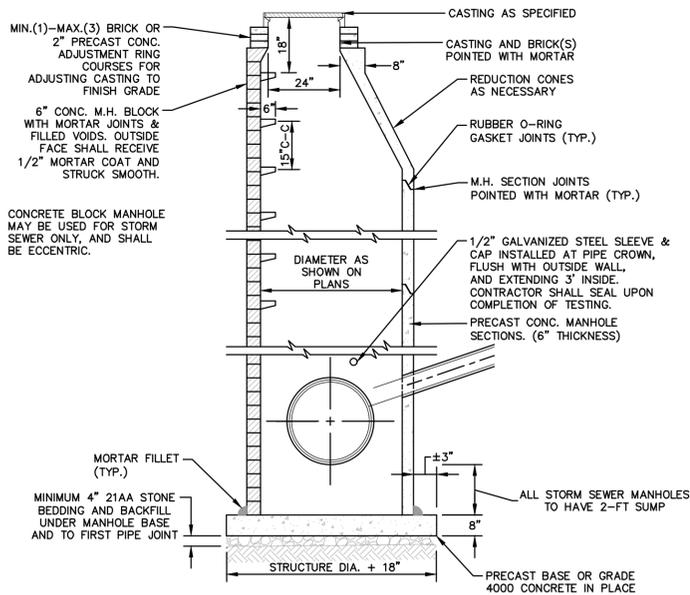
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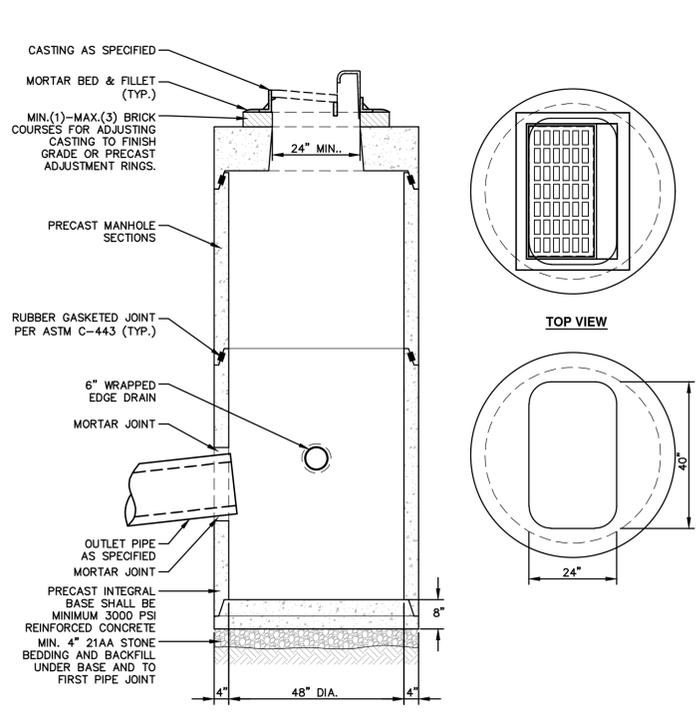
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
 BROOKS STREET IMPROVEMENTS
 WATER MAIN DETAILS

SCALE: NTS
 DRAWING No. 2021016-4
 SHEET No.



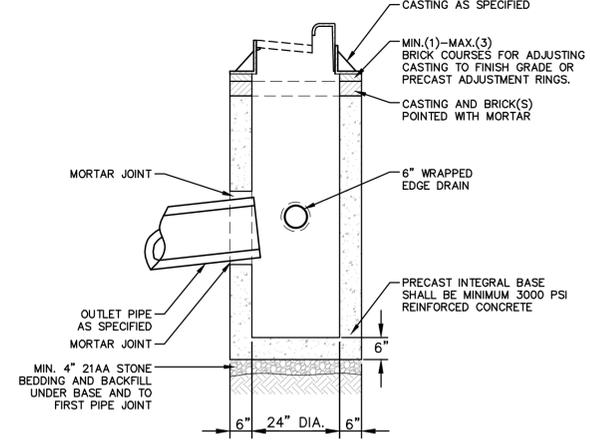
- NOTES:
1. ALL STORM MANHOLES MAY BE PRECAST CONCRETE OR MANHOLE BLOCK.
 2. ALL MANHOLES MUST HAVE ECCENTRIC CONES.
 3. ALL MANHOLE SECTIONS SHALL BE REINFORCED PER ASTM-185.
 4. ALL STORM SEWER OPENINGS SHALL BE PRECAST WITH RUBBER BOOT CONNECTIONS PER ASTM C-923.
 5. 2' SUMP REQUIRED ON ALL DRAINAGE STRUCTURES.
 6. IF A FLAT TOP IS REQUIRED, THEN IT SHALL BE REINFORCED IN BOTH DIRECTIONS TO MEET ASTM C-615.

STANDARD STORM MANHOLE (SEPARATE BASE) SD-ST-1A



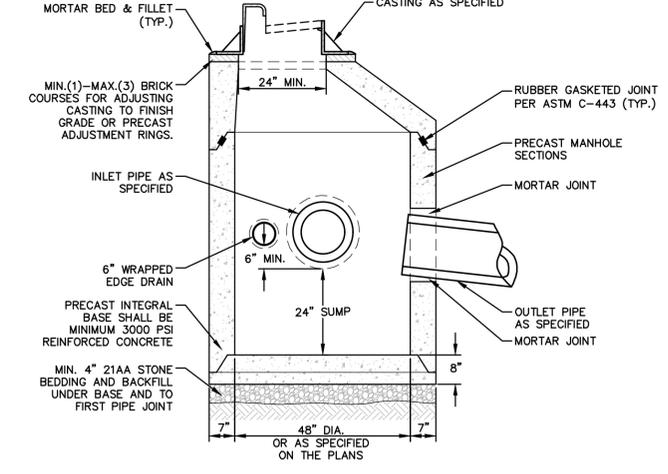
- NOTES:
1. FRONT EDGE OF INLET CASTING SHALL BE FLUSH WITH FRONT EDGE OF GUTTER (EDGE-OF-METAL)

PRECAST LOW POINT INLET SD-ST-4



- NOTES:
1. MAY BE USED WITH SINGLE OUTLET PIPE AND SINGLE INLET PIPE.
 2. FRONT EDGE OF INLET CASTING SHALL BE FLUSH WITH FRONT EDGE OF GUTTER (EDGE-OF-METAL)

PRECAST SINGLE INLET SD-ST-3



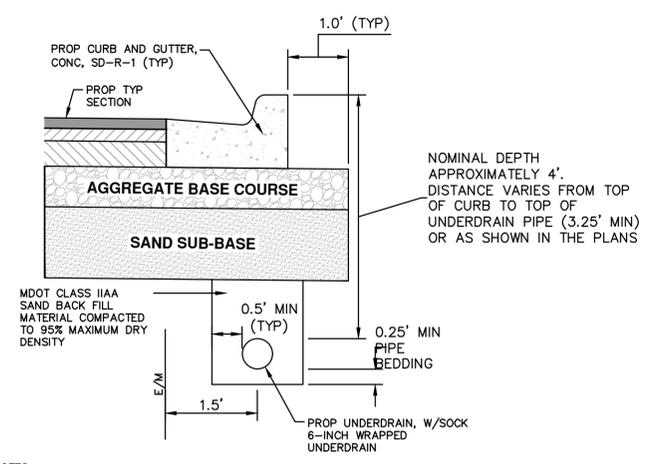
- NOTES:
1. FRONT EDGE OF INLET CASTING SHALL BE FLUSH WITH FRONT EDGE OF GUTTER (EDGE-OF-METAL)

PRECAST JUNCTION INLET SD-ST-2

TYPE OF CASTING	MDOT DESIGNATION	EJ CASTING NO.	NEENAH CASTING NO.
MANHOLE AND GATE WELL FRAME AND COVER	Q/B	1040Z W/ TYPE A COVER*	R-1642 W/ TYPE C COVER*
BARRIER CURB INLET FRAME AND COVER	K	7045Z W/ TYPE M1 GRATE	R-3031-B W/ TYPE S GRATE
BARRIER CURB LOW POINT INLET FRAME AND COVER	K	7035Z W/ TYPE M2 GRATE	N/A
GUTTER INLET FRAME AND COVER	R	5080Z W/ TYPE 5000M2 GRATE	R-3448C, W/ TYPE S GRATE
GUTTER LOW POINT INLET FRAME AND COVER	R	7034Z W/ TYPE M GRATE	N/A
MOUNTABLE CURB INLET ASSEMBLY		7065	N/A
YARD DRAIN (BEE HIVE) FRAME AND COVER	G	1040Z, TYPE 02 GRATE	R-2560-E1
WATER VALVE BOX ASSEMBLY IN PAVEMENT		8560	N/A
MONUMENT BOX ASSEMBLY		8360	N/A

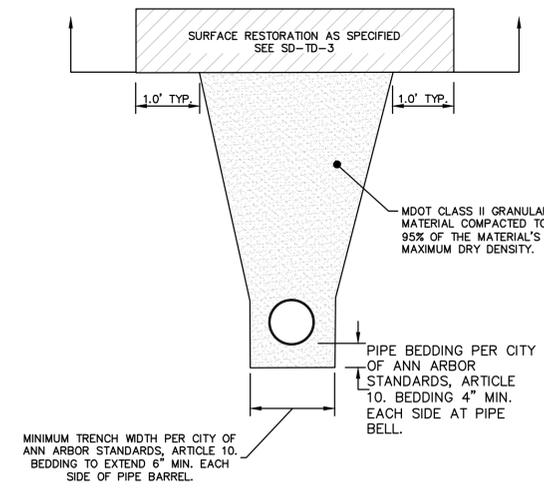
NOTES:
 *EACH COVER SHALL HAVE "SANITARY", "STORM", OR "WATER" CAST IN THE SURFACE, WHICHEVER IS APPLICABLE. SANITARY SEWER COVERS SHALL BE GASKETED IN FLOOD PRONE AREAS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE PSAA. FRAMES AND COVERS MUST HAVE MACHINED BEARING SURFACES.

STANDARD CASTING SCHEDULE SD-GU-1



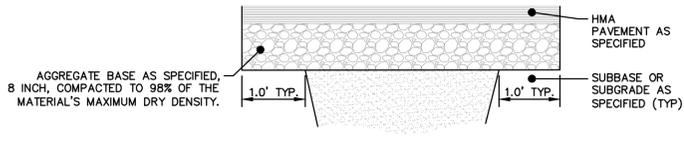
- NOTES:
1. IN AREAS WHERE EDGE DRAIN CANNOT BE INSTALLED IN ACCORDANCE WITH THE DETAIL, THE EDGE DRAIN SHALL BE INSTALLED AT THE DEPTH AS INDICATED ON THE PLANS, OR AS DIRECTED BY ENGINEER. IN NO CASE SHALL THE EDGE DRAIN BE INSTALLED AT A GRADE LESS THAN 0.50% OR AT A DEPTH OF LESS THAN 2' BELOW TOP OF PROPOSED PAVEMENT.
 2. FOR PAVEMENT BASE AND SUBBASE THICKNESS, SEE TYPICAL PAVEMENT CROSS-SECTION(S)
 3. TRENCH DETAILS SHOW TYPE OF BACKFILL AND SURFACE RESTORATION ONLY
 4. ALL TRENCHING TO CONFORM TO ALL APPLICABLE M.I.O.S.H.A. STANDARDS
 5. EDGE DRAINS SHALL BE CONNECTED TO A DRAINAGE STRUCTURE AND WILL EXTEND A MINIMUM OF 100 FEET UPSLOPE FROM THE STRUCTURE.
 6. ADDITIONAL LENGTHS OF EDGE DRAIN MAY BE REQUIRED BY THE ENGINEER BASED ON EXISTING SITE CONDITIONS, INCLUDING CONDITION OF THE SUBGRADE.

TYPICAL EDGE DRAIN TRENCH SD-TD-4

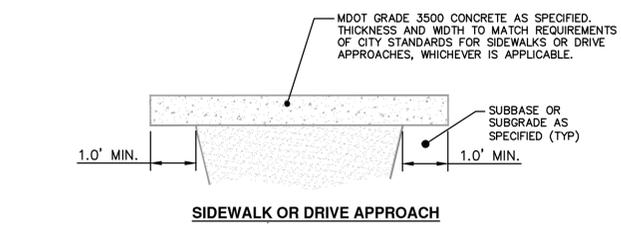


- NOTES:
1. ALL TRENCH EXCAVATION, BEDDING, BACKFILLING, AND SURFACE RESTORATION SHALL COMPLY WITH CITY OF ANN ARBOR STANDARDS, ARTICLE 10.
 2. TRENCH DETAILS SHOW TYPE OF BACKFILL AND TRENCHING REQUIREMENTS ONLY.
 3. ALL TRENCHING TO CONFORM TO ALL APPLICABLE M.I.O.S.H.A. AND CITY STANDARDS.
 4. PIPE BEDDING THICKNESS UNDER CONCRETE PIPE 66" OR LARGER SHALL BE INCREASED TO 6".
 5. SEE SD-TD-1B FOR SANITARY BEDDING AREA DETAIL. SEE SD-TD-4 FOR EDGE DRAIN BEDDING AND BACKFILL.
 6. SURFACE RESTORATION SHALL NOT BE INCLUDED IN THE UNIT PRICE FOR PIPE AND WILL BE PAID FOR SEPARATELY.

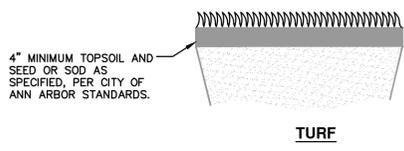
UTILITY TRENCH - TYPE IA EXCLUDING SANITARY SEWER AND EDGE DRAIN



UTILITY TRENCH SURFACE RESTORATION SD-TD-3A



UTILITY TRENCH SURFACE RESTORATION SD-TD-3B



TURF

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Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	CC/DF/AG	TB	CHECKED				
00	OUT TO BID	3-13-23							



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROOKS STREET IMPROVEMENTS
 STORM SEWER AND TRENCH DETAILS

SCALE: NTS

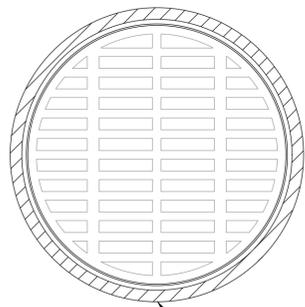
SHEET No.

DRAWING No. 2021016-5

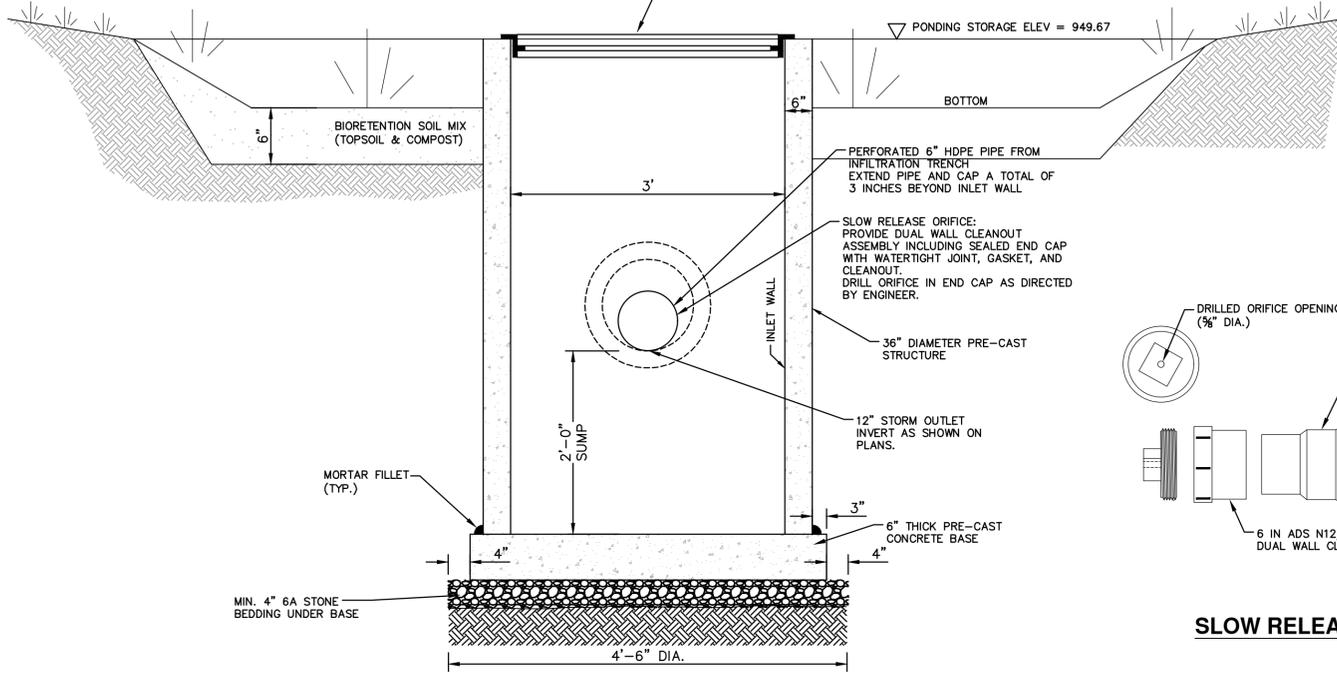
5 OF 57

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GRATE DETAIL

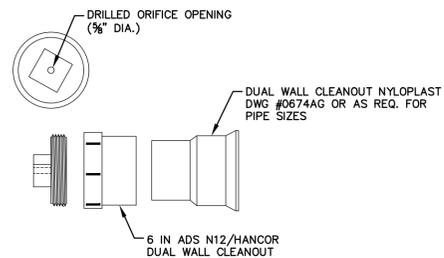


EJW V3610-6 DI
V1610-6 BF ASSEMBLY.
FRAME TO BE INSTALLED
REVERSED.

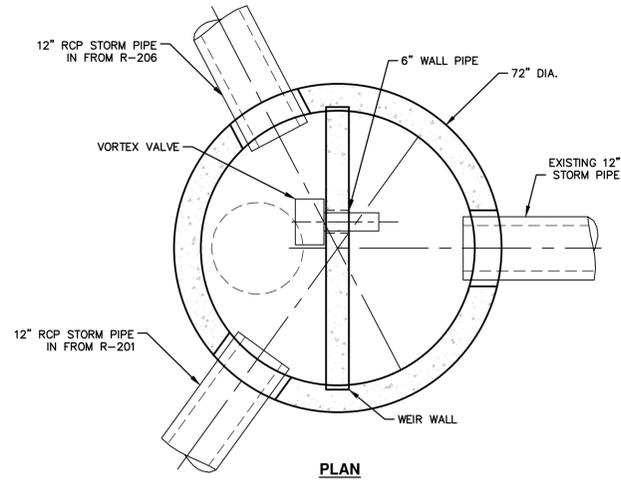


BIOPONDING OVERFLOW STRUCTURE R-211

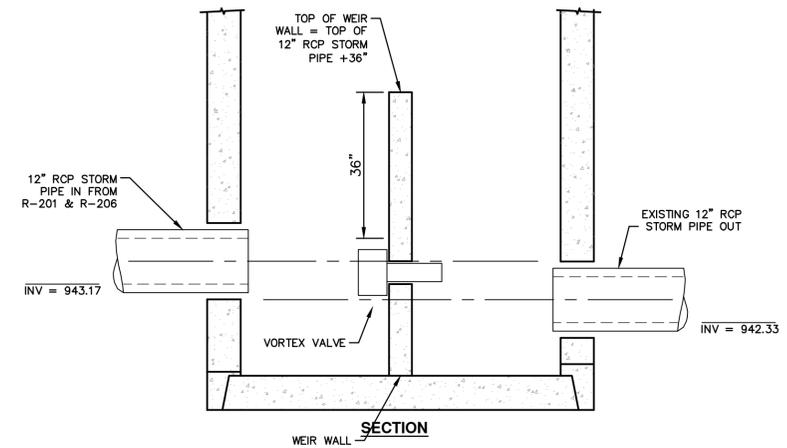
NOT TO SCALE



SLOW RELEASE ORIFICE



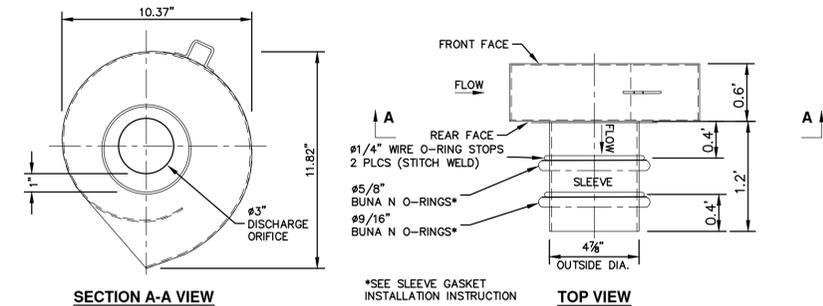
PLAN



SECTION

UNDERGROUND STORMWATER STORAGE CONTROL STRUCTURE, R-200

NOT TO SCALE



SECTION A-A VIEW

*SEE SLEEVE GASKET INSTALLATION INSTRUCTION

TOP VIEW

NOTES:

1. ALL WELDS CONTINUOUS UNLESS NOTED OTHERWISE.
2. MATERIALS:
 - 12 GA. 304L STAINLESS STEEL
 - (1) #5/8" AND (1) #9/16" BUNA N, 50 DUROMETER O-RINGS.
3. MANUFACTURE HOUSING AND BYPASS DOOR AND ASSEMBLE PER DRAWING "2 mm FLUIDIC-AMP FABRICATION DETAILS FA1012-FA2023 HOUSING AND INLET"
4. DISCHARGE ORIFICE LOCATED REAR FACE. #4" BYPASS OPENING LOCATED FRONT FACE.
5. INCLUDES 20" BYPASS DOOR PULL CABLE.

FLUIDIC-AMP VORTEX VALVE MODEL FA1012 WITH SLEEVE ATTACHMENT FOR Ø6" OPENING FABRICATION DRAWING



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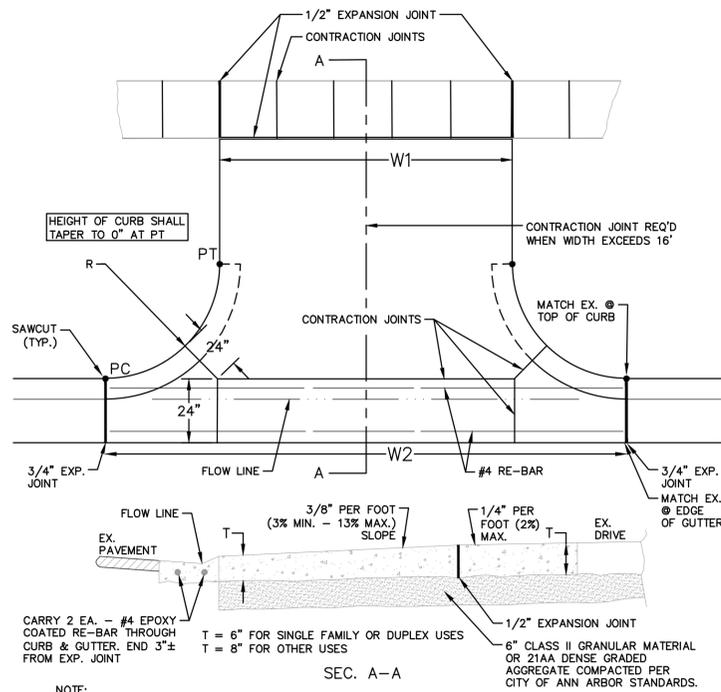
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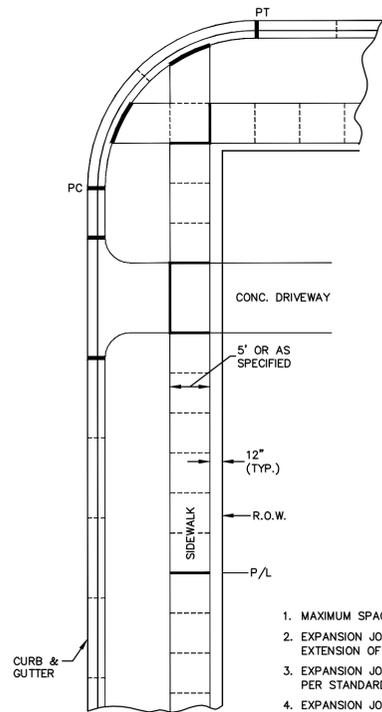
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BROOKS STREET IMPROVEMENTS
BIOPONDING OVERFLOW STRUCTURE DETAIL

SCALE: NTS
DRAWING No. 2021016-6

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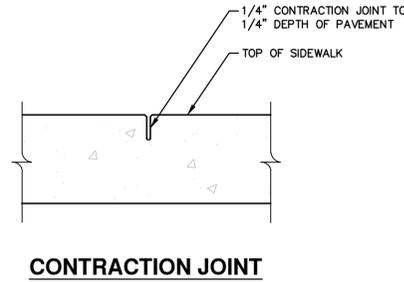


TYPE M DRIVE APPROACH FOR ASPHALT STREETS WITH BARRIER CURB

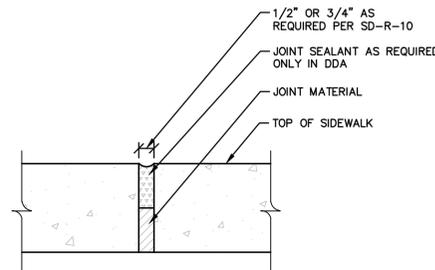


SIDEWALK AND CURB & GUTTER JOINT SPACING

GENERAL NOTES:
1. DESIGN MAY UTILIZE TOOLED OR SAW-CUT CONTRACTION JOINT. PLANS MUST INDICATE SELECTION OF JOINT TYPE. PROJECT MUST HAVE EITHER JOINT TYPE, BUT NOT BOTH.



CONTRACTION JOINT

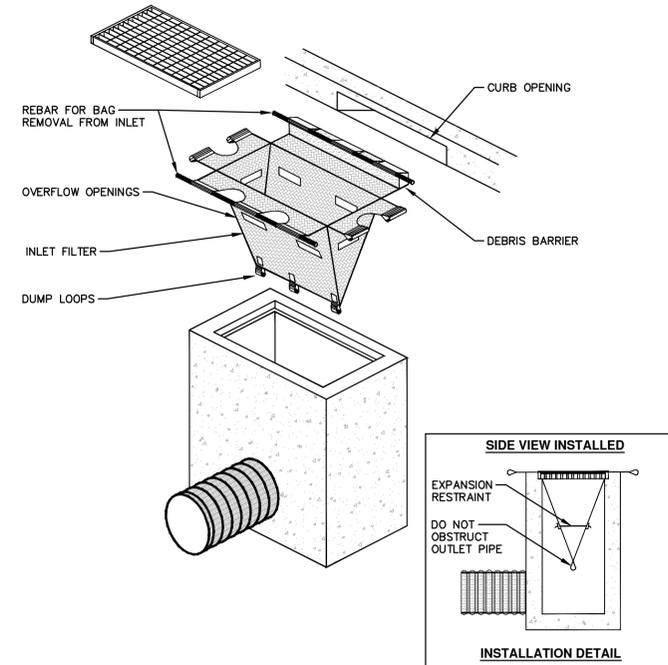


EXPANSION JOINT

1. MAXIMUM SPACING BETWEEN ALL EXPANSION JOINTS SHALL BE 300'.
2. EXPANSION JOINTS SHALL BE PLACED IN SIDEWALKS AT THE EXTENSION OF ALL PROPERTY LINES.
3. EXPANSION JOINTS SHALL BE PLACED AT DRIVE APPROACH EDGES PER STANDARD DRIVE APPROACH DETAILS SD-R-6 THROUGH SD-R-8.
4. EXPANSION JOINTS SHALL BE PLACED AT SIDEWALK INTERSECTIONS AS SHOWN.
5. EXPANSION JOINTS SHALL BE PLACED IN CURB AND GUTTER AT PC AND PT OF INTERSECTION RADII.
6. CONTRACTION JOINT SPACING FOR CURB AND CURB SHALL BE 10' STANDARD AND 8' MINIMUM.
7. CONTRACTION JOINTS FOR SIDEWALKS SHALL BE PLACED AT ALL SLAB ENDS (5' TYPICAL, 3' MINIMUM TO 7' MAXIMUM).

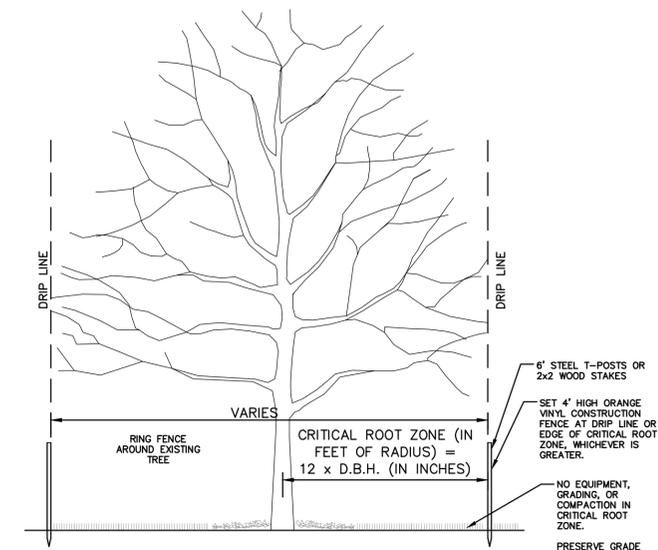
LEGEND:

- CONTRACTION JOINTS - - - - -
- 1/2" EXPANSION JOINTS - - - - -
- 3/4" EXPANSION JOINTS - - - - -

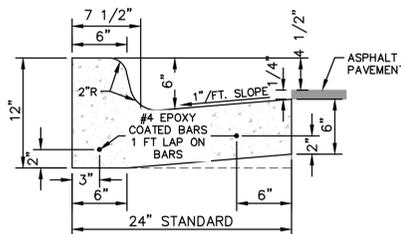


INLET PROTECTION

1. SIZE AND SHAPE OF INLET FILTER SHALL MATCH THE STRUCTURE.
2. WHERE CONDITIONS WARRANT, THE FILTER SHALL BE MADE WITH AN OIL-ABSORBENT FILTER WITH A WOVEN PILLLOW INSERT.

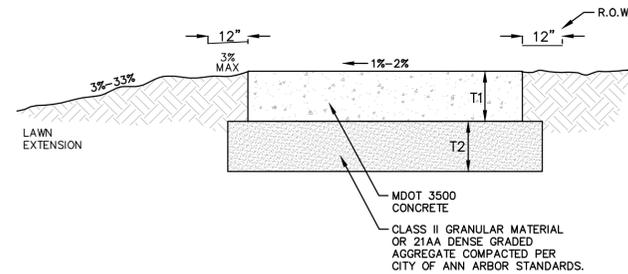


TREE PROTECTION



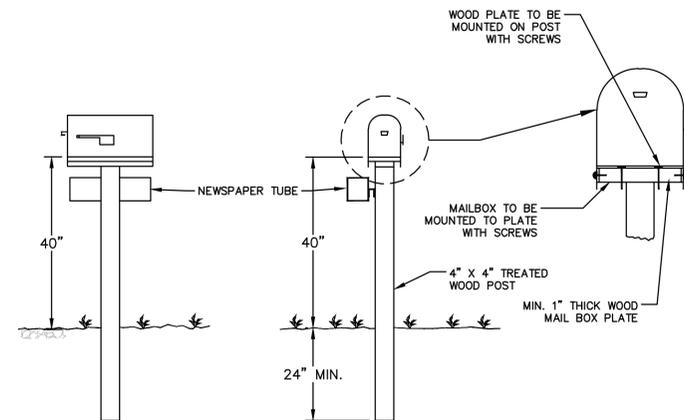
BARRIER CURB AND GUTTER

- NOTES:
1. BARRIER CURB AND GUTTER ON ASPHALT STREETS SHALL CONFORM TO THIS DETAIL.
 2. BARRIER CURB AND GUTTER ON CONCRETE STREETS SHALL CONFORM TO MDOT CURB AND GUTTER DETAIL F3.



SIDEWALK CROSS SECTION

- GENERAL NOTE:
SIDEWALKS IN THE DDA SHALL BE CONSTRUCTED PER DETAILS SD-DDA-1 THROUGH SD-DDA-7.
- 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. MINIMUM BASE THICKNESS (T2) SHALL BE 4'.
 7. MINIMUM 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 STREET INTERSECTIONS AS DIRECTED AND SHALL COMPLY WITH THE REQUIREMENTS OF MDOT DETAIL R-28 (LATEST VERSION).
 10. IF SIDEWALKS ARE APPROVED TO MEANDER WITHIN THE RIGHT-OF-WAY TO PROTECT AND SAVE TREES, SLOPES, ETC., CURVES IN THE SIDEWALK SHALL HAVE A MINIMUM 5' RADIUS, WITH A MINIMUM 3' LAWN EXTENSION.
 11. EXPANSION AND CONTRACTION JOINTS SHALL BE PROVIDED PER SIDEWALK AND CURB & GUTTER JOINT SPACING DETAIL SD-R-10.



MAILBOX NEWSPAPER TUBE INSTALLATION AND RELOCATION

- NOTES:
1. ALL WORK TO BE DONE UNDER CURRENT FEDERAL POSTAL SERVICE SPECIFICATIONS.
 2. FOR PERMANENT MAILBOX RELOCATION, POST TO BE NEW 4" X 4" POST, OR RESTORE ORIGINAL POST TO AS GOOD OR BETTER THAN ORIGINAL CONDITION.
 3. FOR TEMPORARY MAILBOX RELOCATION, THE USE OF EXISTING POST WILL BE PERMITTED.
 4. FOR NEWS PAPER TUBE RELOCATION THE USE OF EXISTING POST WILL BE PERMITTED.

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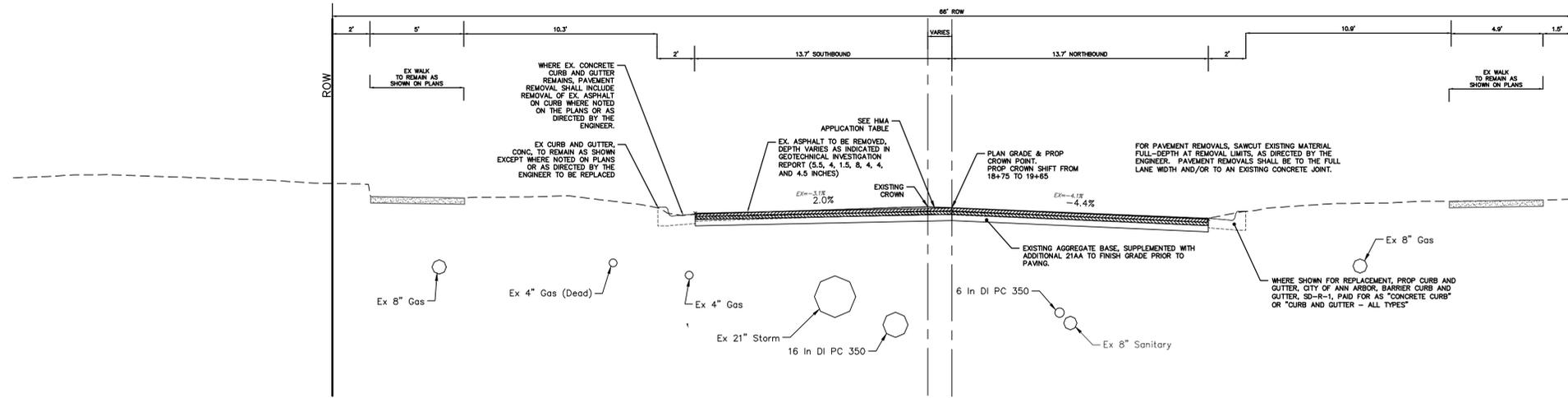
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BROOKS STREET IMPROVEMENTS
SCALE: NTS
DRAWING No. 2021016-7

SHEET No.

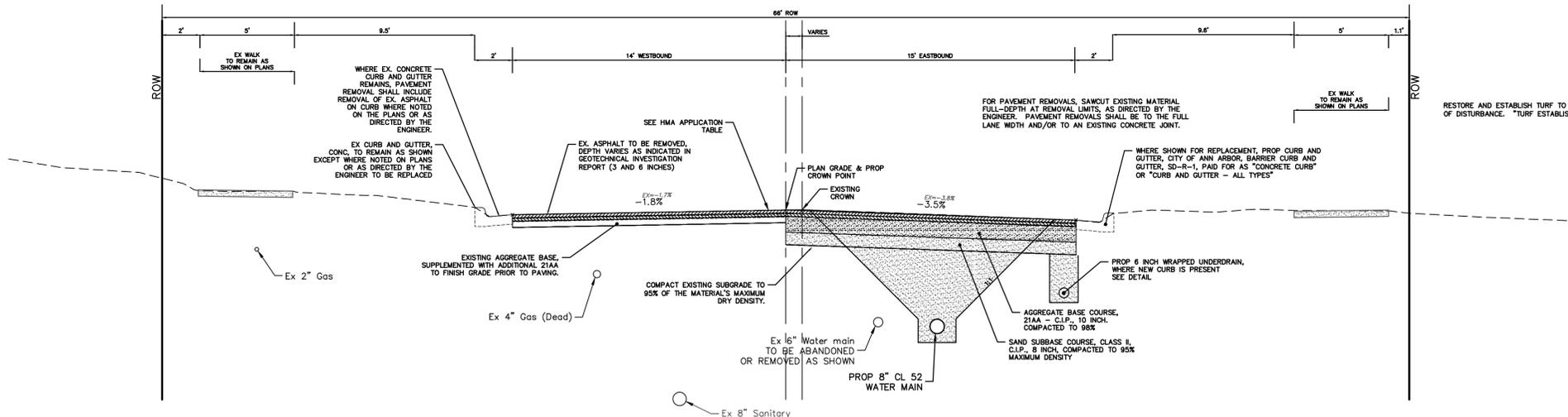
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**BROOKS STREET
TYPICAL SECTION**
POB TO STA. 19+65
N.T.S.



**MIXTWOOD ROAD
TYPICAL SECTION**
POB TO STA. 5+54
N.T.S.

HMA APPLICATION ESTIMATE						
HMA PAVEMENT	HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
HMA PAVEMENT TOP	5EL	165 LB/SYD	1.5	220 (TOP)	PG 58-28	TOP COURSE
HMA PAVEMENT LEVELING	4EL	275 LB/SYD	2.5	-	PG 58-28	LEVELING COURSE
HMA APPROACH TOP	4EL	220 LB/SYD	2	220 (TOP)	PG 58-28	TOP COURSE
HMA APPROACH LEVELING	4EL	220 LB/SYD	2	-	PG 58-28	LEVELING COURSE
HAND PATCHING	4EL	0 - 440 LB/SYD	-	-	PG 58-28	HAND PATCHING
ASPHALT EMULSION	SS-1h	0.05 - 0.15 GAL/SYD	-	-	-	INCLUDE IN COST OF HMA ITEM



REV.	DATE	DESCRIPTION
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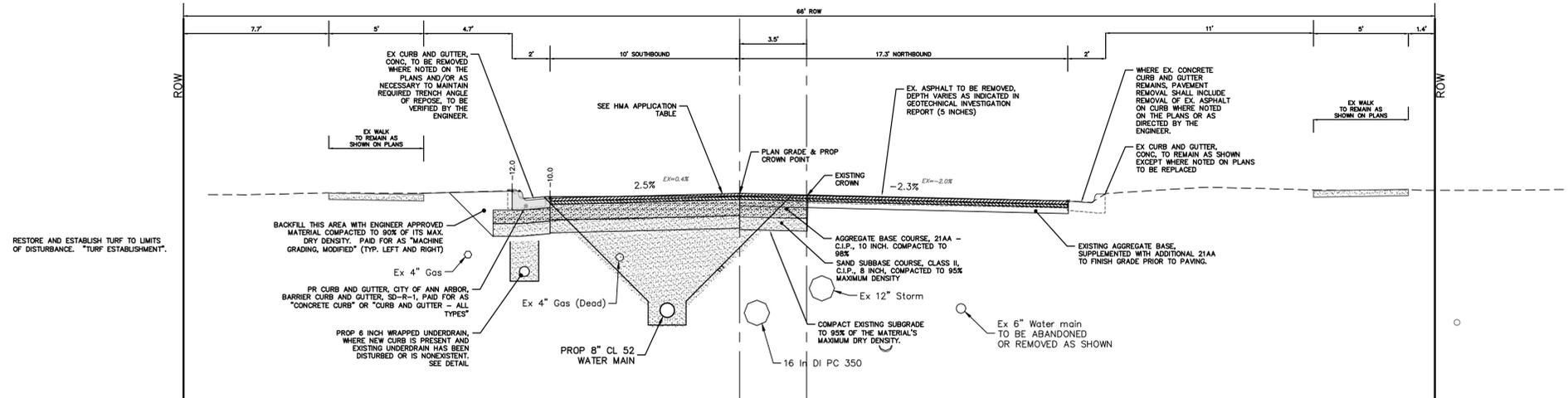
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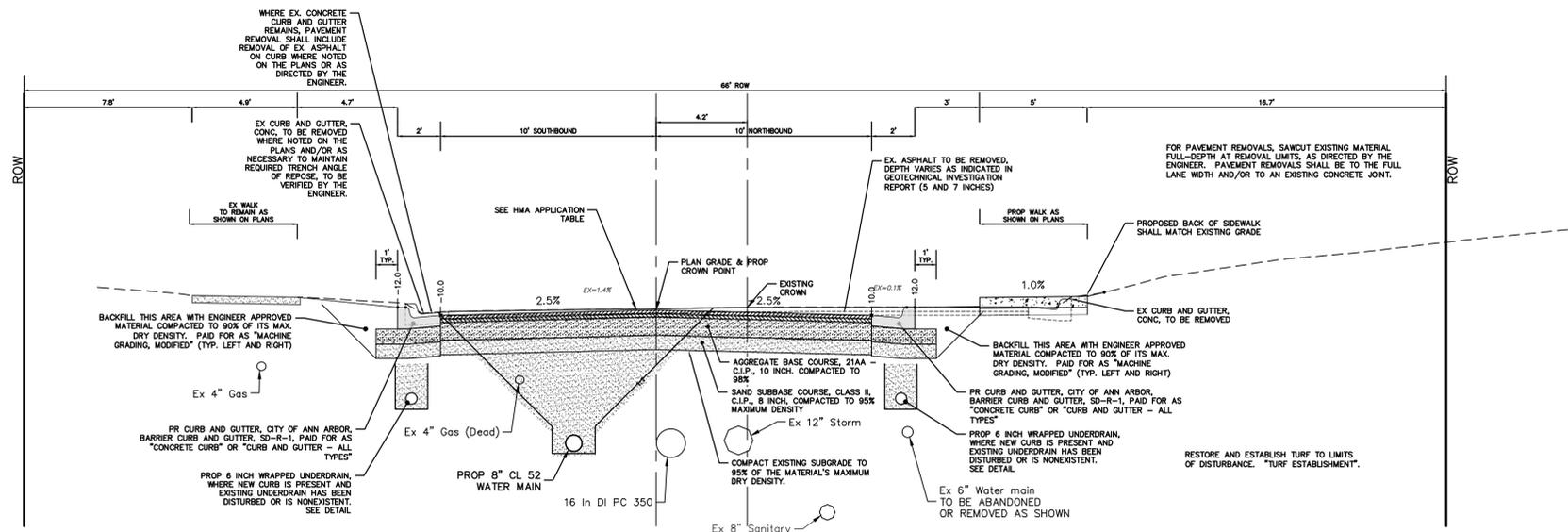
BROOKS STREET IMPROVEMENTS
MIXTWOOD RD & BROOKS ST TYPICAL SECTIONS

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SCALE PLAN: NTS
DRAWING No. 2021016-8
SHEET No. 8 OF 57

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**BROOKS STREET
TYPICAL SECTION**
STA. 19+65 TO STA. 22+90
N.T.S.



**BROOKS STREET
TYPICAL SECTION**
STA. 22+90 TO STA. 27+80
N.T.S.



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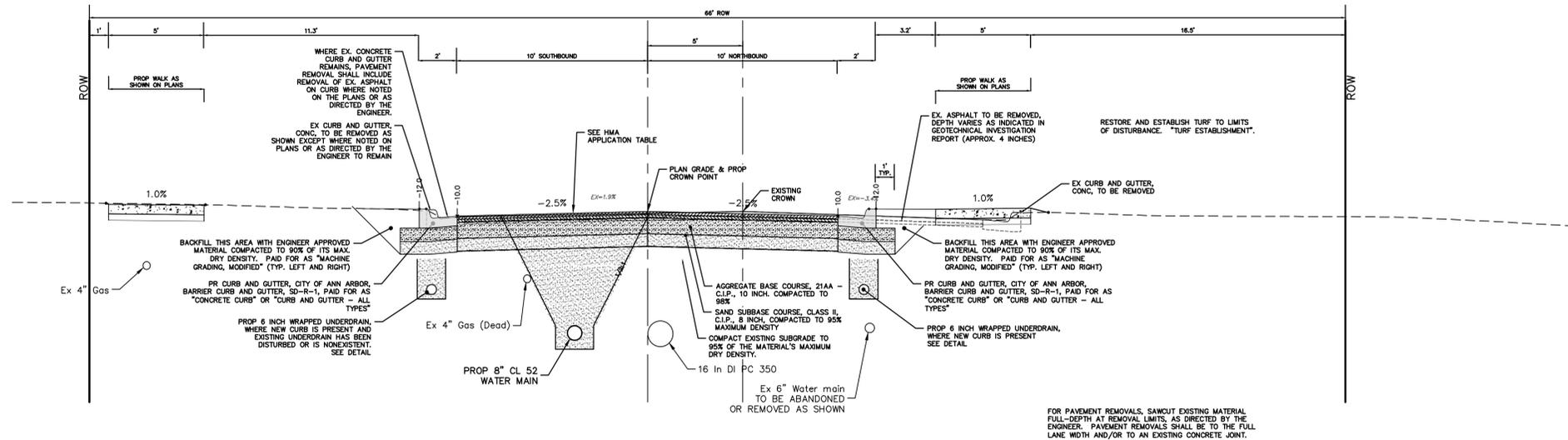
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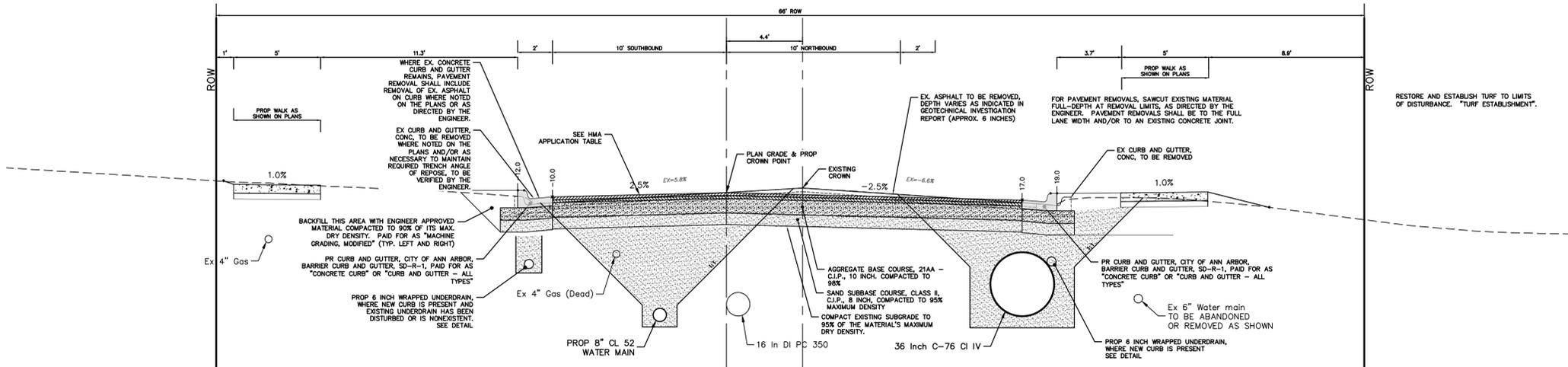
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BROOKS STREET IMPROVEMENTS
BROOKS STREET TYPICAL SECTIONS

SCALE PLAN: NTS
DRAWING No. 2021016-9

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**BROOKS STREET
TYPICAL SECTION**
STA. 27+80 TO STA. 29+60
N.T.S.



**BROOKS STREET
TYPICAL SECTION**
STA. 29+60 TO STA. 30+55
N.T.S.



REV.	DESCRIPTION	DATE	CHECKED
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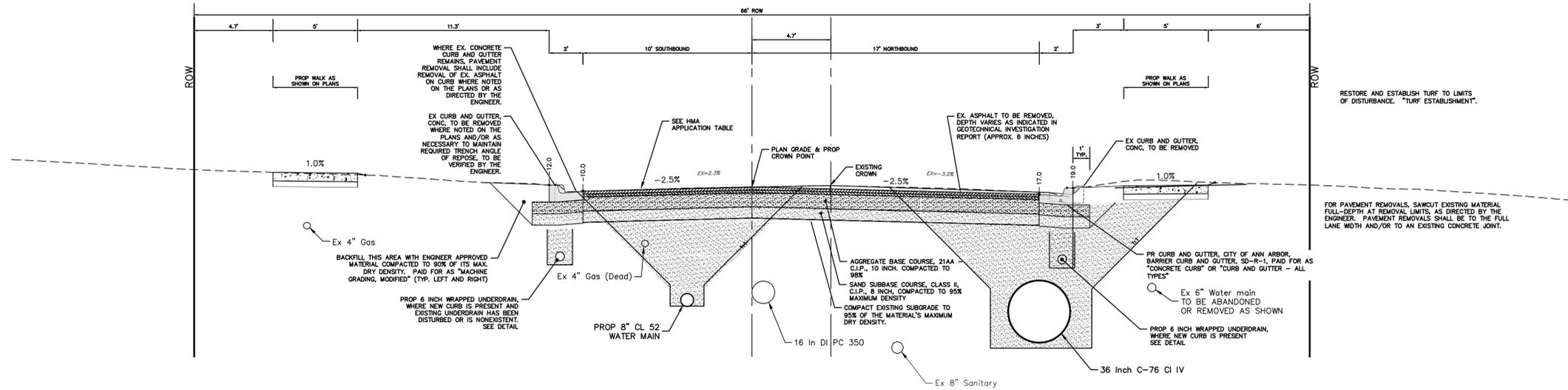
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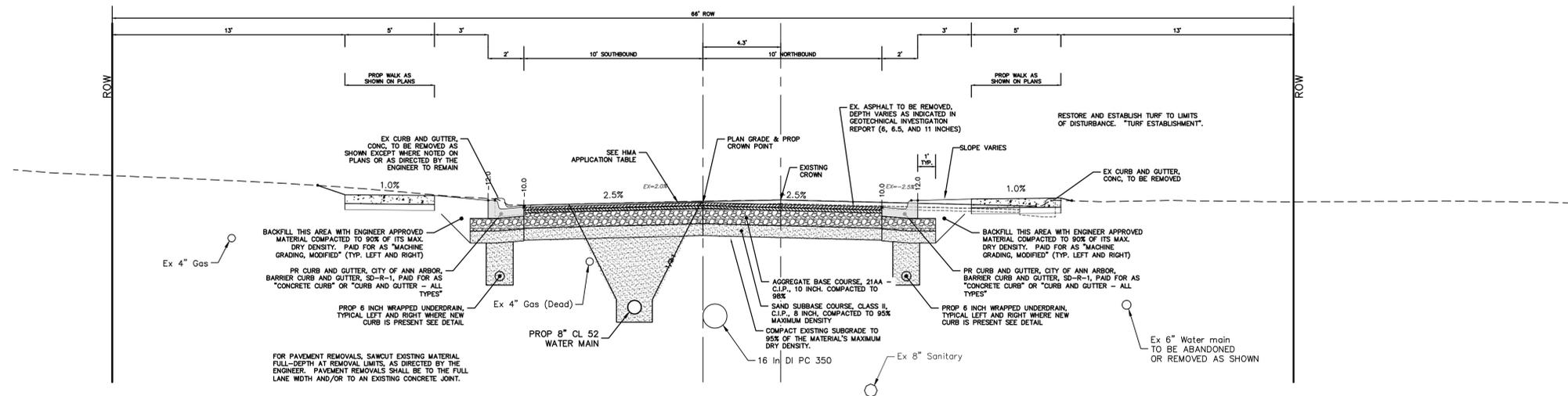
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BROOKS STREET TYPICAL SECTIONS

SCALE PLAN: NTS
DRAWING No. 2021016-10

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**BROOKS STREET
TYPICAL SECTION**
STA. 30+50 TO STA. 31+85
N.T.S.



**BROOKS STREET
TYPICAL SECTION**
STA. 31+85 TO POE
N.T.S.



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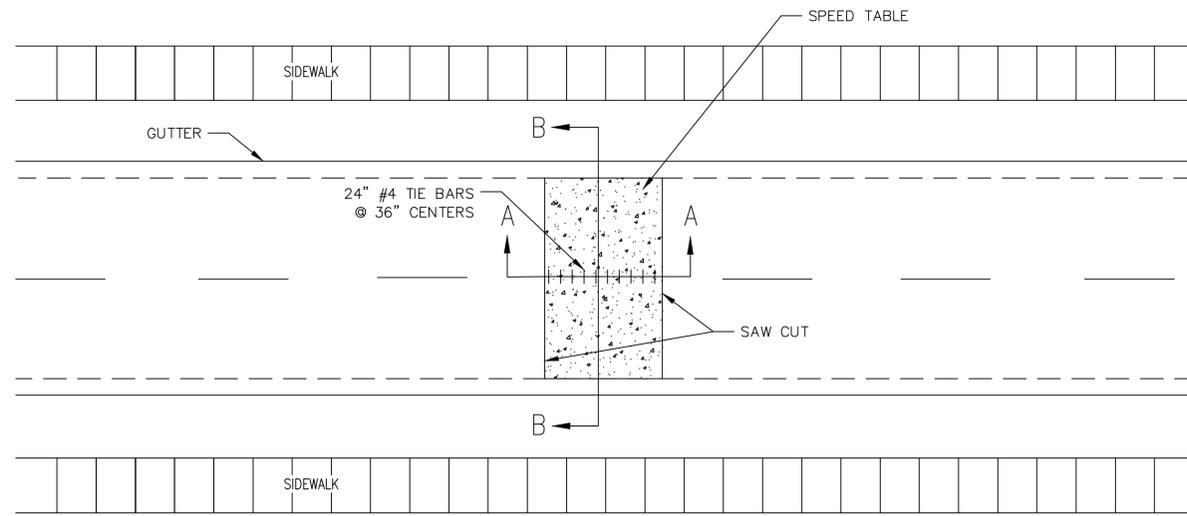
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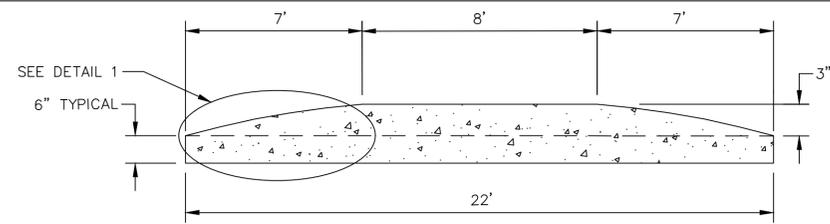
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BROOKS STREET TYPICAL SECTIONS

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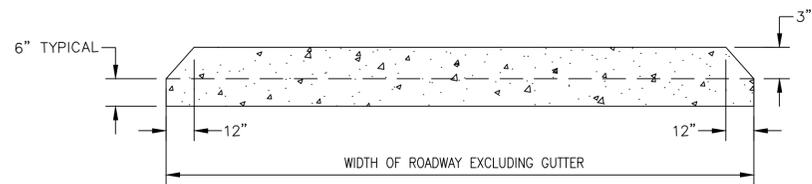
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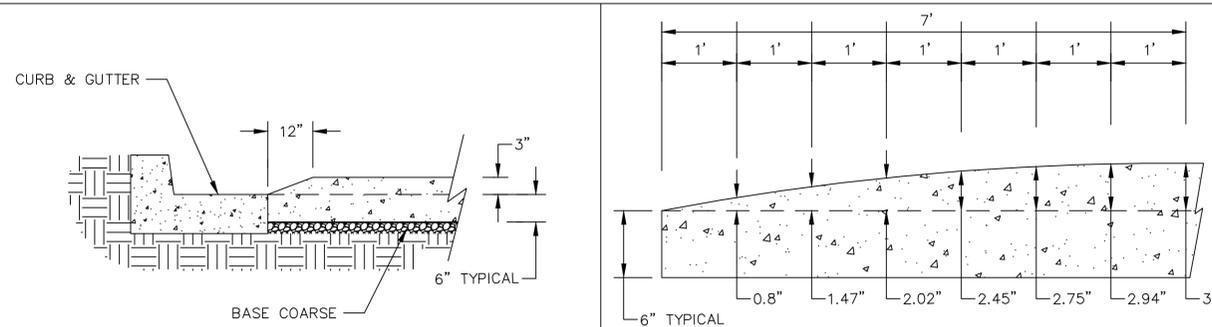
PLAN VIEW



SECTION AA



SECTION BB

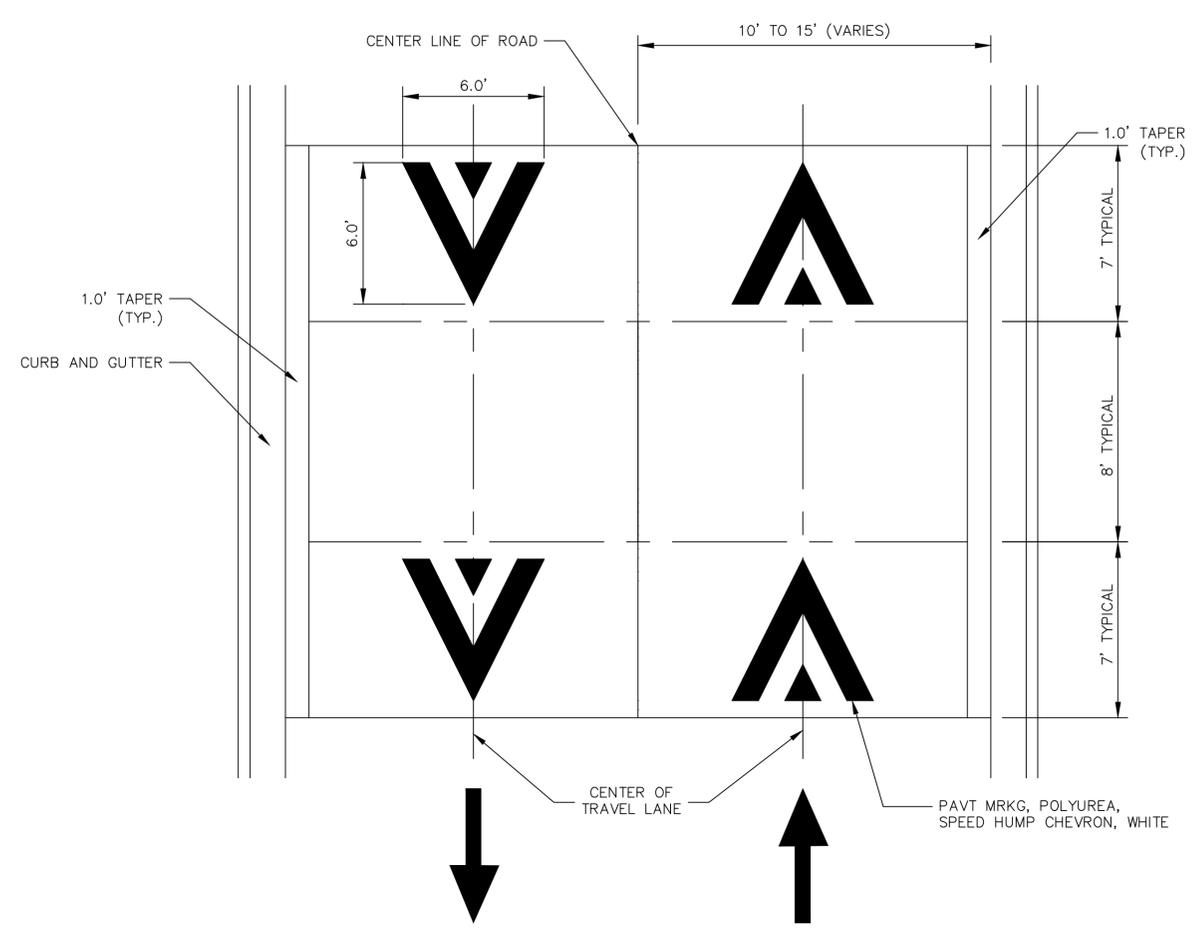


CURB DETAIL

DETAIL 1

CONCRETE SPEED TABLE DETAIL

SCALE: NOT TO SCALE



PAVEMENT MARKING DETAIL

SCALE: NOT TO SCALE

GENERAL NOTES

1. RAISED INTERSECTIONS SHALL FOLLOW THE SAME TAPER REQUIREMENT AS THE SPEED HUMPS DETAILED HEREIN.
2. PAYMENT FOR PAVEMENT MARKINGS FOR SPEED HUMPS AND RAISED INTERSECTIONS SHALL BE INCLUDED IN THE RESPECTIVE BID ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.



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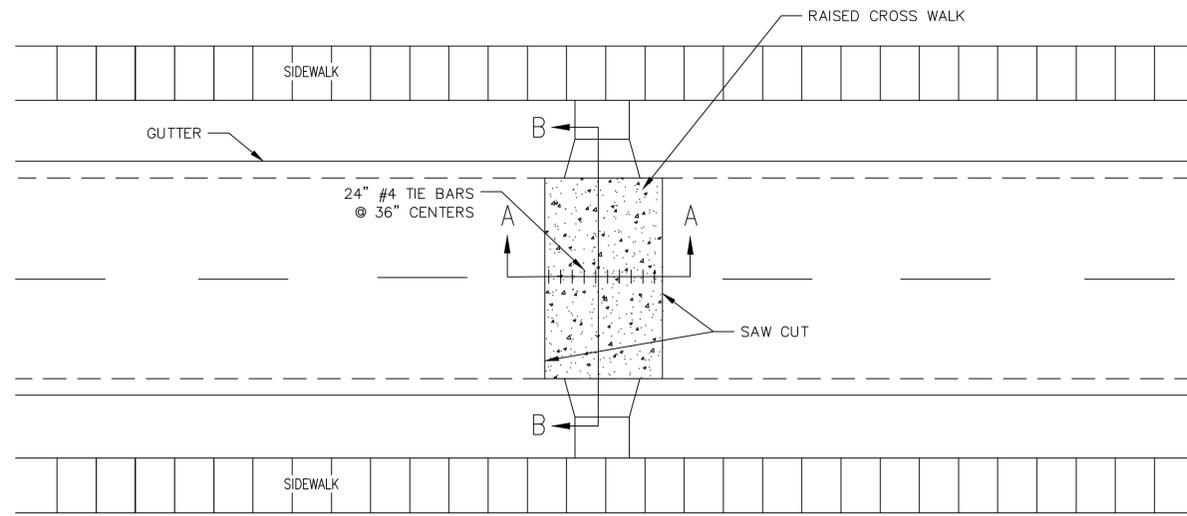
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BROOKS STREET IMPROVEMENTS
CONCRETE SPEED TABLE DETAIL

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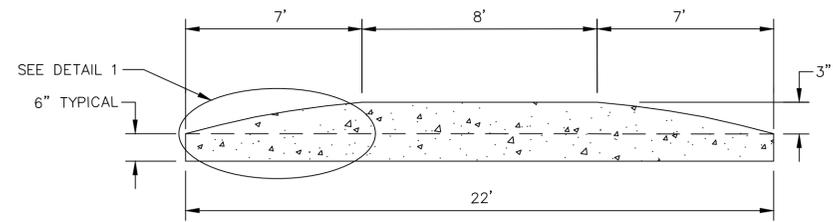
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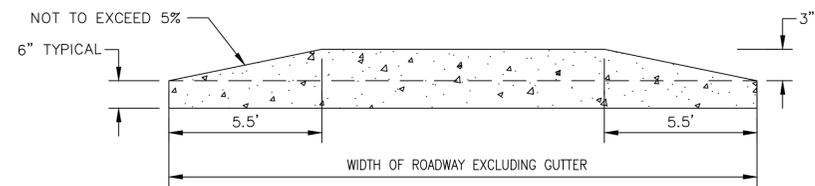
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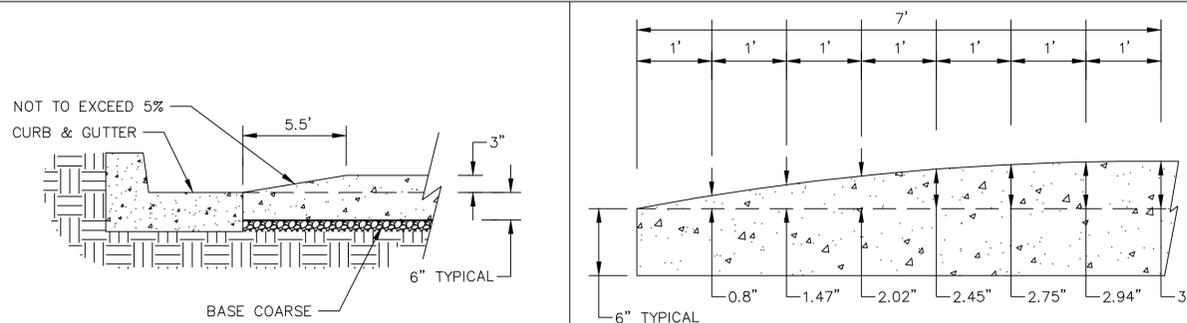
PLAN VIEW



SECTION AA



SECTION BB

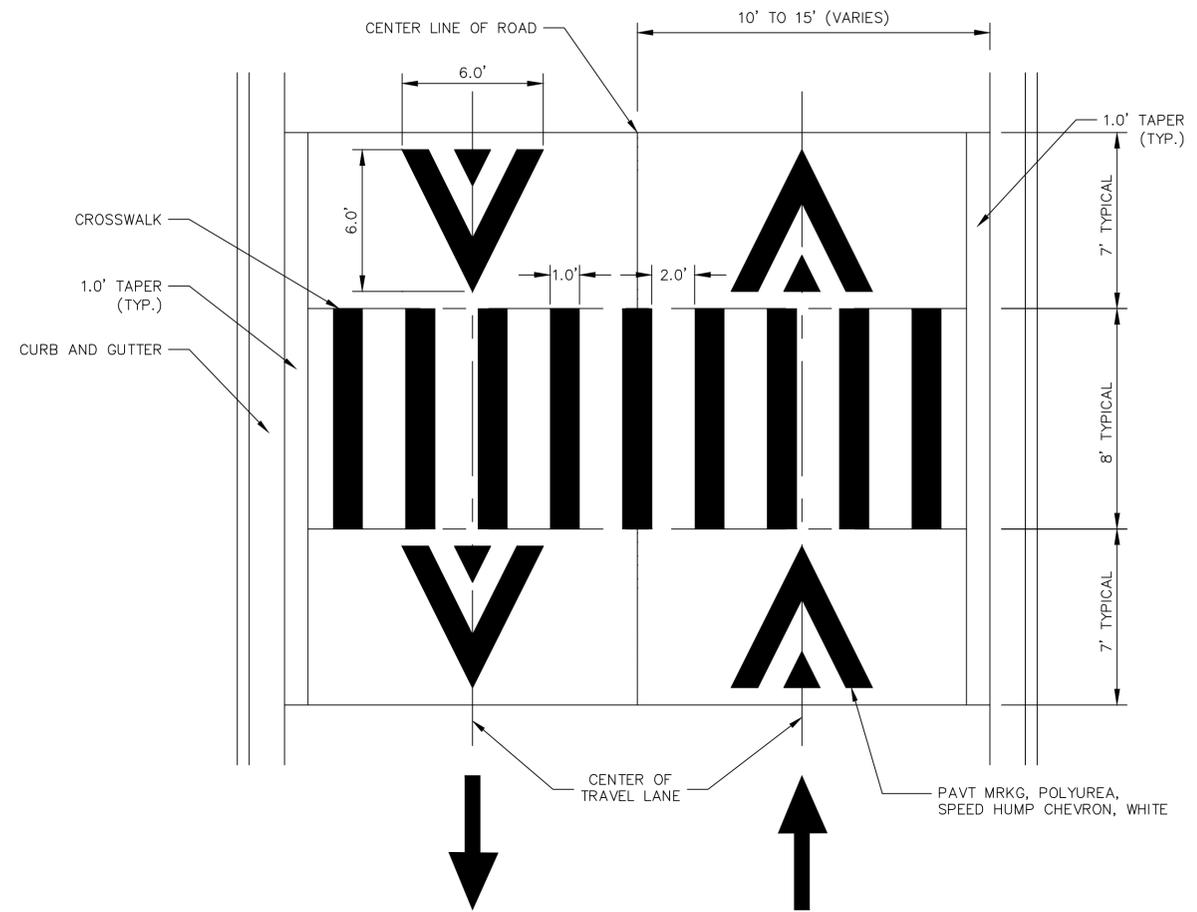


CURB DETAIL

DETAIL 1

CONCRETE RAISE CROSS WALK DETAIL

SCALE: NOT TO SCALE



PAVEMENT MARKING DETAIL

SCALE: NOT TO SCALE

GENERAL NOTES

1. RAISED INTERSECTIONS SHALL FOLLOW THE SAME TAPER REQUIREMENT AS THE SPEED HUMPS DETAILED HEREIN.
2. PAYMENT FOR PAVEMENT MARKINGS FOR SPEED HUMPS AND RAISED INTERSECTIONS SHALL BE INCLUDED IN THE RESPECTIVE BID ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.



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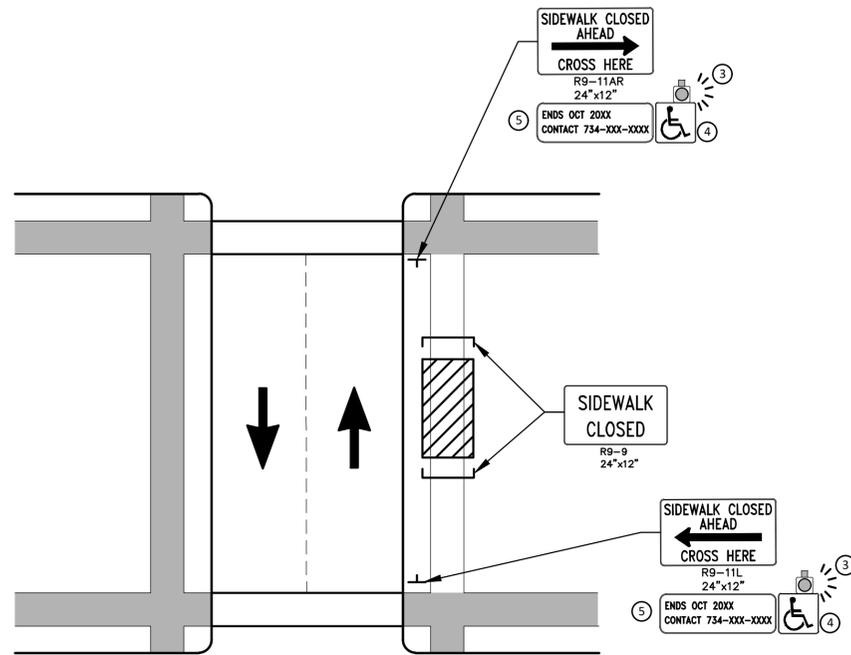


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BROOKS STREET IMPROVEMENTS
CONCRETE RAISED CROSS WALK DETAIL

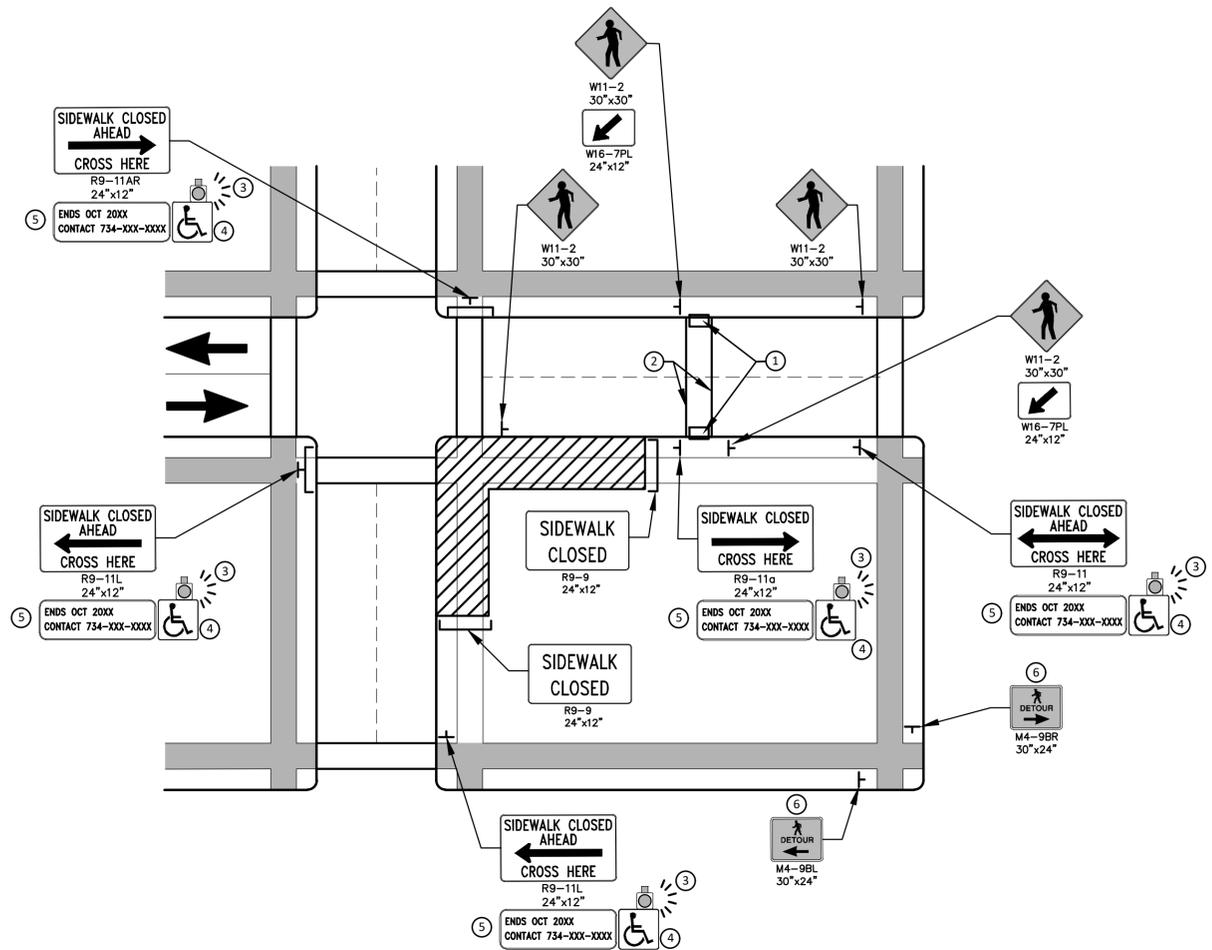
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PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET



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



REV.	DESCRIPTION	DATE	CC/DF/AG	TB	CHECKED
00	OUT TO BID	3-13-23			

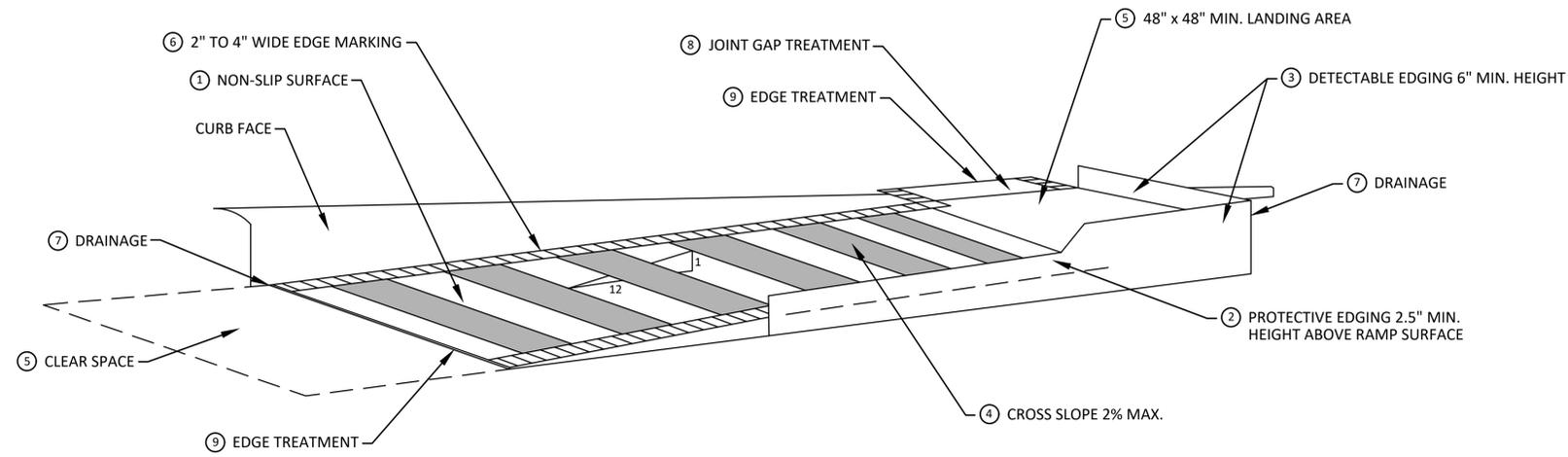
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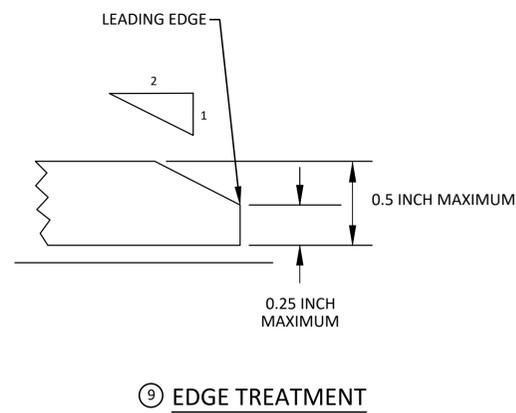
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROOKS STREET IMPROVEMENTS
ALTERNATE PEDESTRIAN ROUTE (APR) DETOUR

SCALE: N.T.S.
DRAWING No. 2021016-14
SHEET No.

R:\2021016 Brooks Street\Plan Production\2021016Det1.dwg Dwg Created: 13-Mar-23 - _a2 standard bw.stb - Plot Date: 13-Mar-23



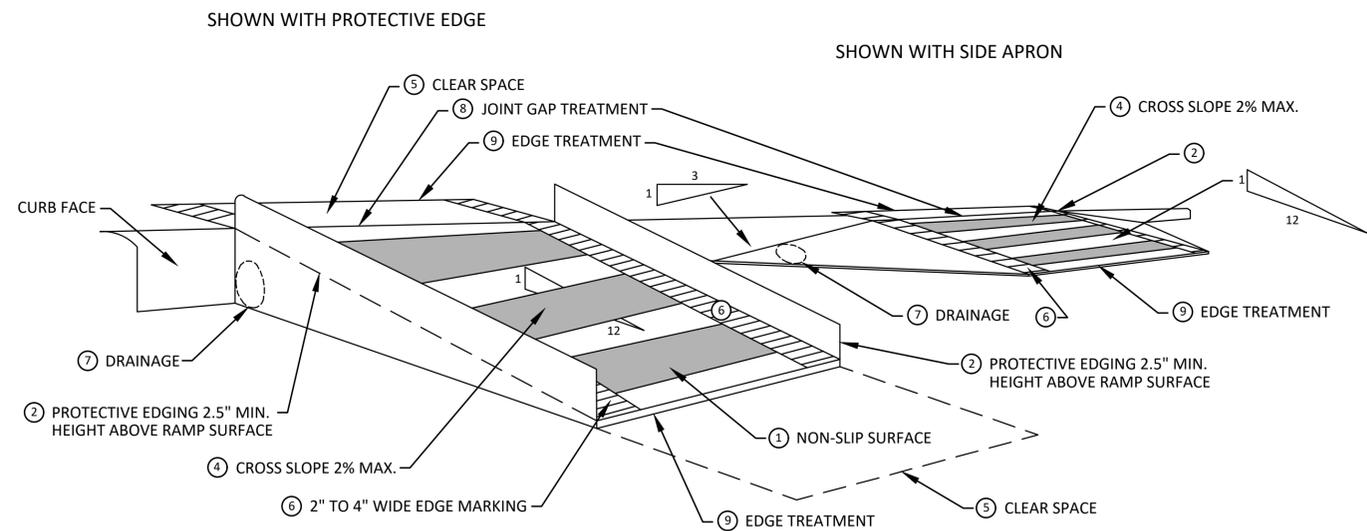
**TEMPORARY CURB RAMP
PARALLEL TO CURB**



EDGE TREATMENT

SPECIFIC NOTES

- 1 CURB RAMP SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. 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 RAMP OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- 2 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).
- 3 CURB RAMP AND LANDINGS SHALL HAVE A 2% MAX. CROSS SLOPE.
- 4 CLEAR SPACE OF 48" x 48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- 5 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.
- 6 WATER FLOW IN THE GUTTER SYSTEM SHALL NOT BE IMPEDED.
- 7 LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.
- 8 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.



**TEMPORARY CURB RAMP
PERPENDICULAR TO CURB**



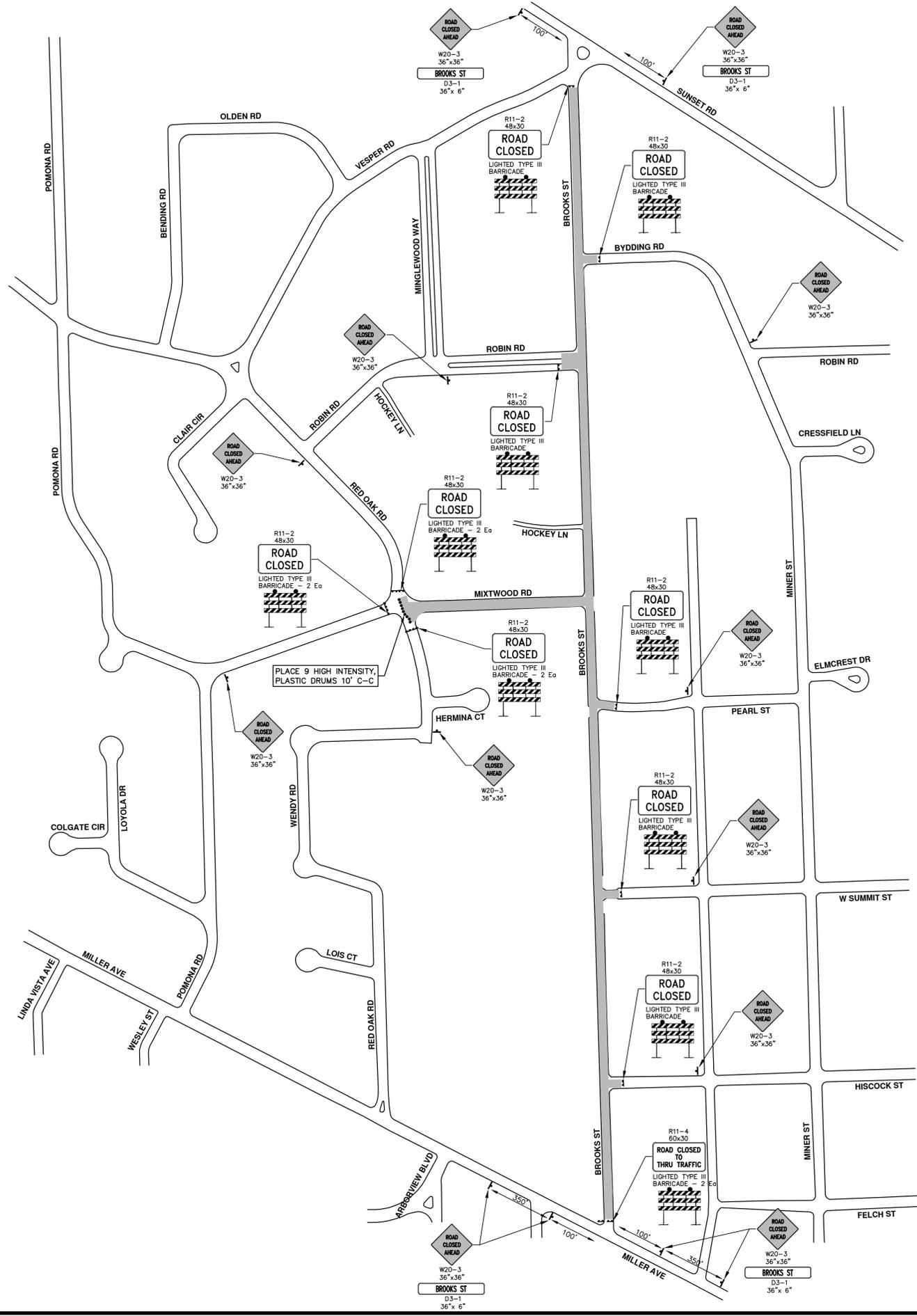
REV.	DESCRIPTION	DATE	BY	CHECKED
00	OUT TO BID	3-13-23	CC/JF/AG	TB
			DRAWN	CHECKED

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TPAR RAMPS

SCALE: N.T.S.
DRAWING No. 2021016-16

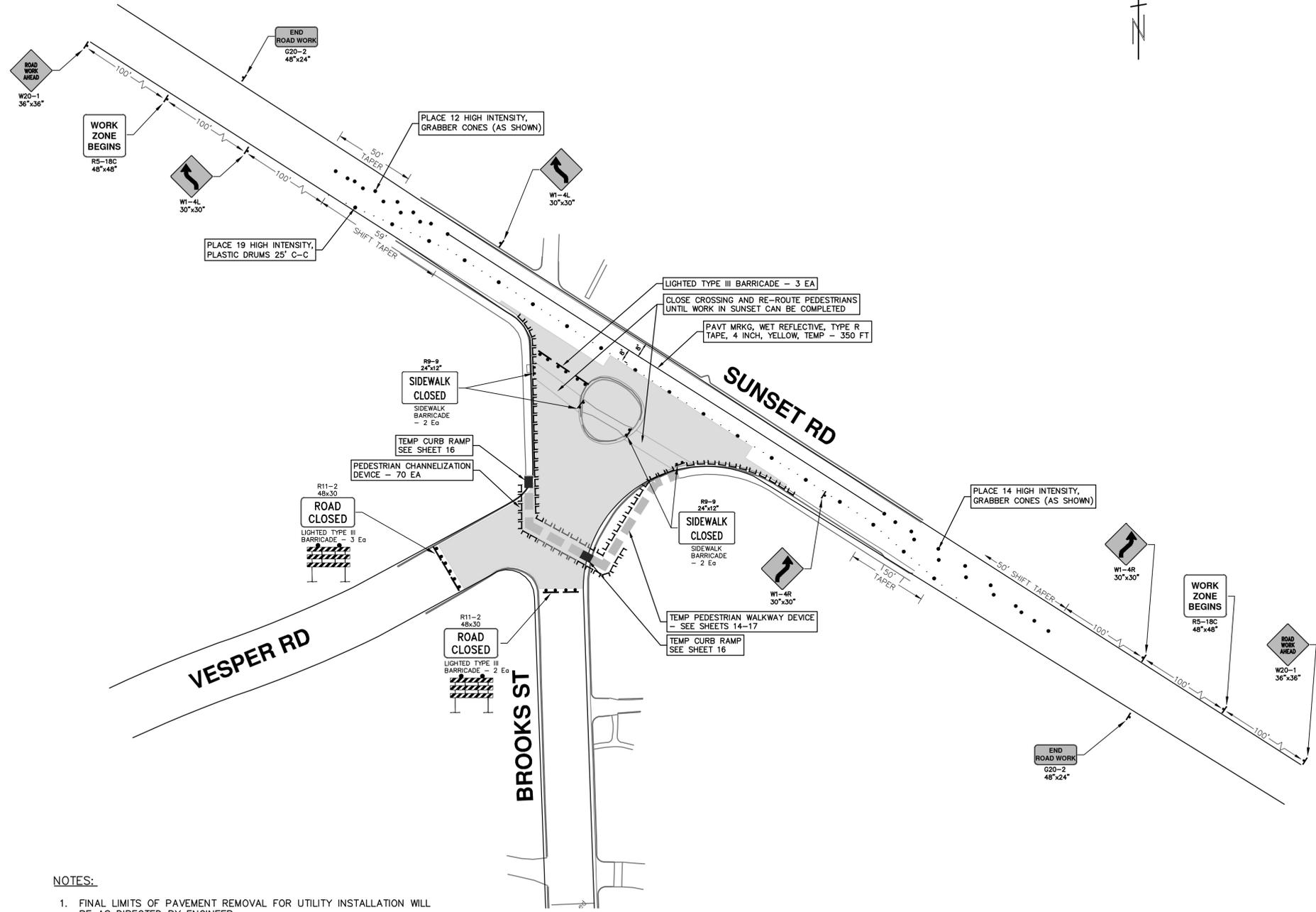


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT TO BID	3-13-23	CC/DF/KG	TB



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NOTES:

1. FINAL LIMITS OF PAVEMENT REMOVAL FOR UTILITY INSTALLATION WILL BE AS DIRECTED BY ENGINEER.
2. UTILIZE PLASTIC DRUMS AND PROTECTIVE FENCING WITHIN WORK ZONE TO DELINEATE OPEN TRENCHES AS DIRECTED BY ENGINEER.
3. MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION.
4. COVER CONFLICTING SIGNS AS NEEDED OR AS DIRECTED BY ENGINEER.
5. REMOVE CONFLICTING PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER.



REV.	DESCRIPTION	DATE	CC/DF/AG	TB	CHECKED
00	OUT TO BID	3-13-23			

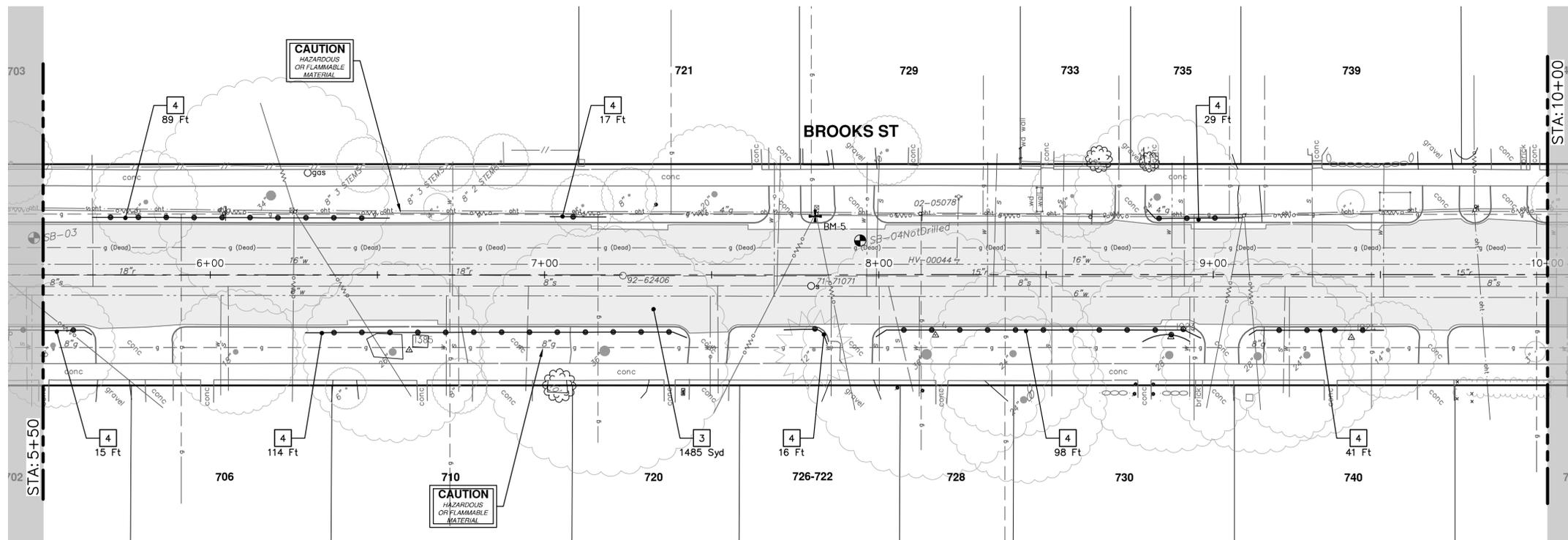
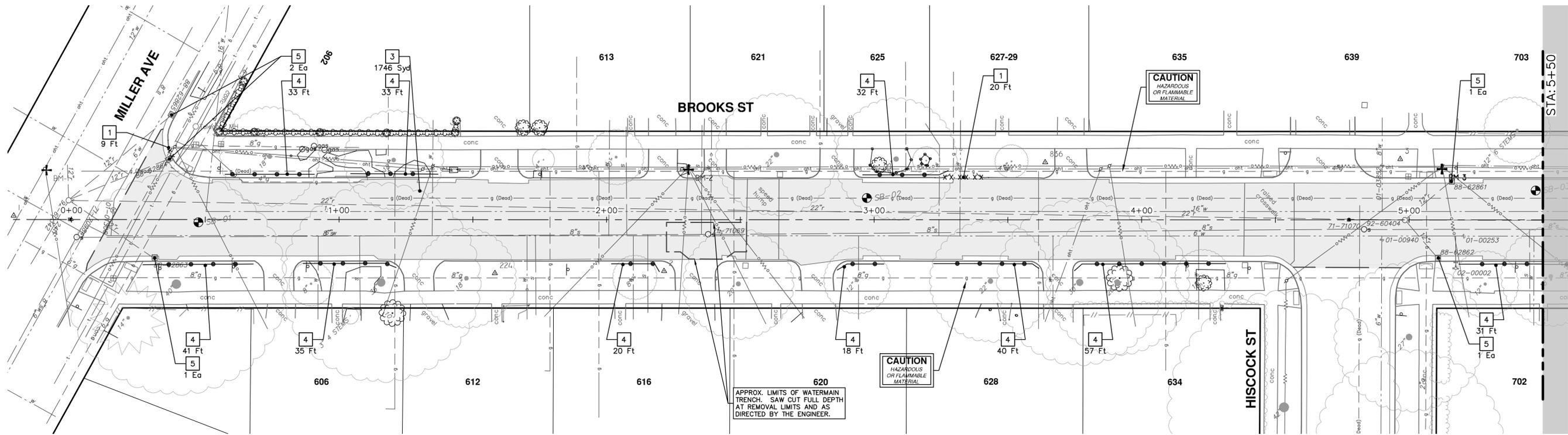
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BROOKS STREET IMPROVEMENTS
MAINTENANCE OF TRAFFIC
SUNSET RD AND BROOKS ST INTERSECTION

SCALE: NTS
DRAWING No. 2021016-19

R:\2021016 Brooks Street\Plan Production\2021016Rem.dwg Dwg Created: 13-Mar-23 - _a2 standard bw.stb - Plot Date: 13-Mar-23



REMOVAL KEY	
KEY	DESCRIPTION
1	REMOVE CONCRETE CURB OR CURB AND GUTTER, - ANY TYPE*
2	REMOVE CONCRETE SIDEWALK AND DRIVE - ANY THICKNESS*
3	PAVEMENT REMOVAL, ANY DEPTH*
4	PROTECTIVE FENCING
5	INLET FILTER
6A	TREE REMOVAL, 6 INCH - 12 INCH
6B	TREE REMOVAL, 13 INCH - 24 INCH
6C	TREE REMOVAL, 25 INCH AND LARGER
7	SILT FENCE
8	MAILBOX (SALVAGE)
9	SPADE TREE
10	COLD MILLING HMA SURFACE

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER



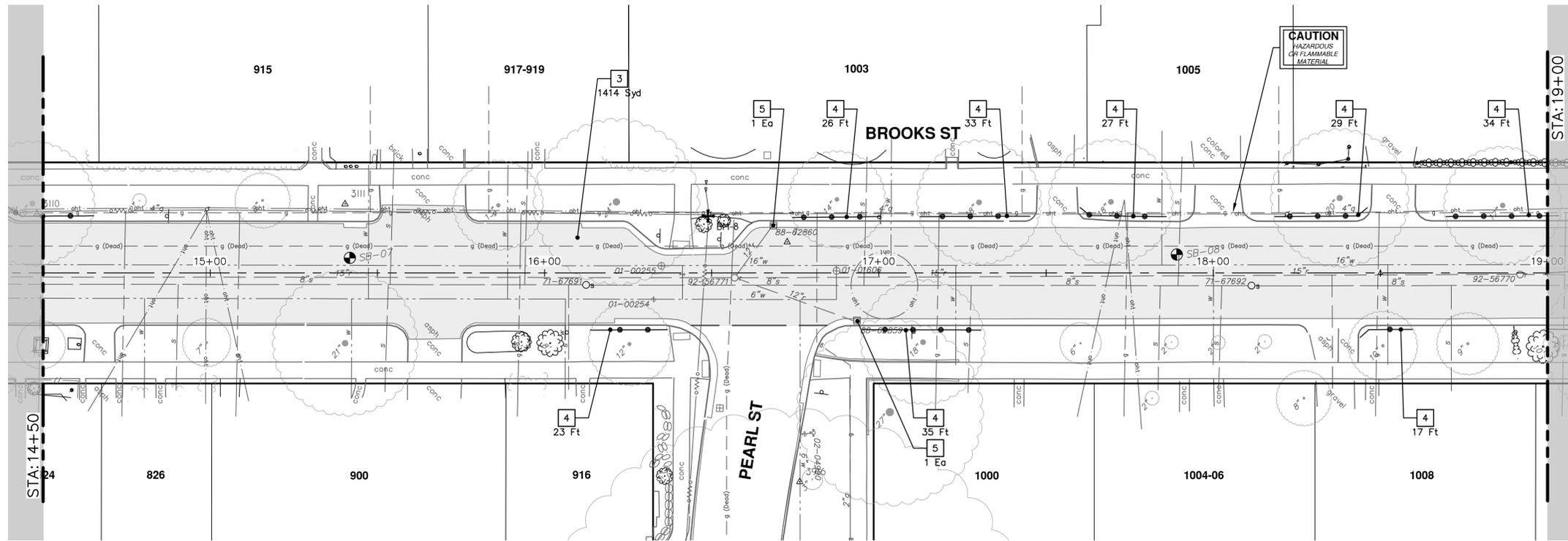
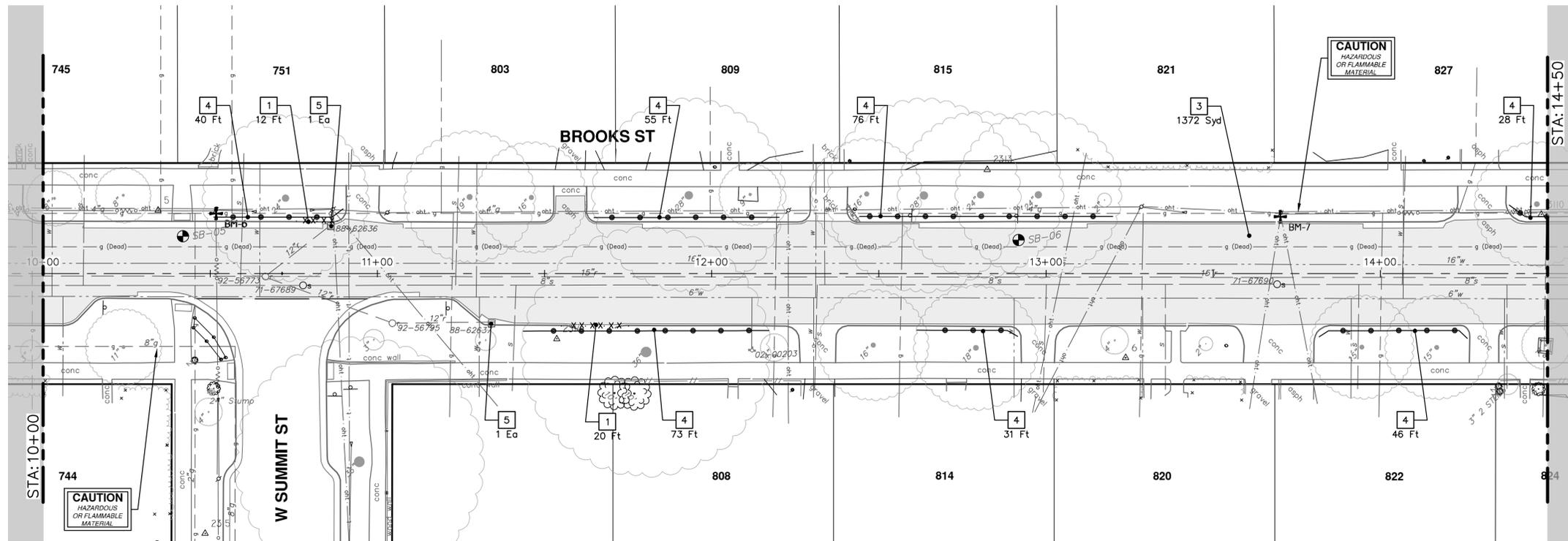
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT TO BID	3-13-23	CC/DF/KGB	TB

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BROOKS STREET IMPROVEMENTS
REMOVALS - BROOKS STREET

SCALE: 1" = 20'
DRAWING NO. 2021016-20



REMOVAL KEY	
KEY	DESCRIPTION
1	REMOVE CONCRETE CURB OR CURB AND GUTTER, - ANY TYPE*
2	REMOVE CONCRETE SIDEWALK AND DRIVE - ANY THICKNESS*
3	PAVEMENT REMOVAL, ANY DEPTH*
4	PROTECTIVE FENCING
5	INLET FILTER
6A	TREE REMOVAL, 6 INCH - 12 INCH
6B	TREE REMOVAL, 13 INCH - 24 INCH
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7	SILT FENCE
8	MAILBOX (SALVAGE)
9	SPADE TREE
10	COLD MILLING HMA SURFACE

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

BROOKS STREET IMPROVEMENTS

REMOVALS - BROOKS STREET

STA. 10+00 - STA. 19+00

SCALE: 1" = 20'

DRAWING No. 2021016-21

SHEET No. 21 OF 57

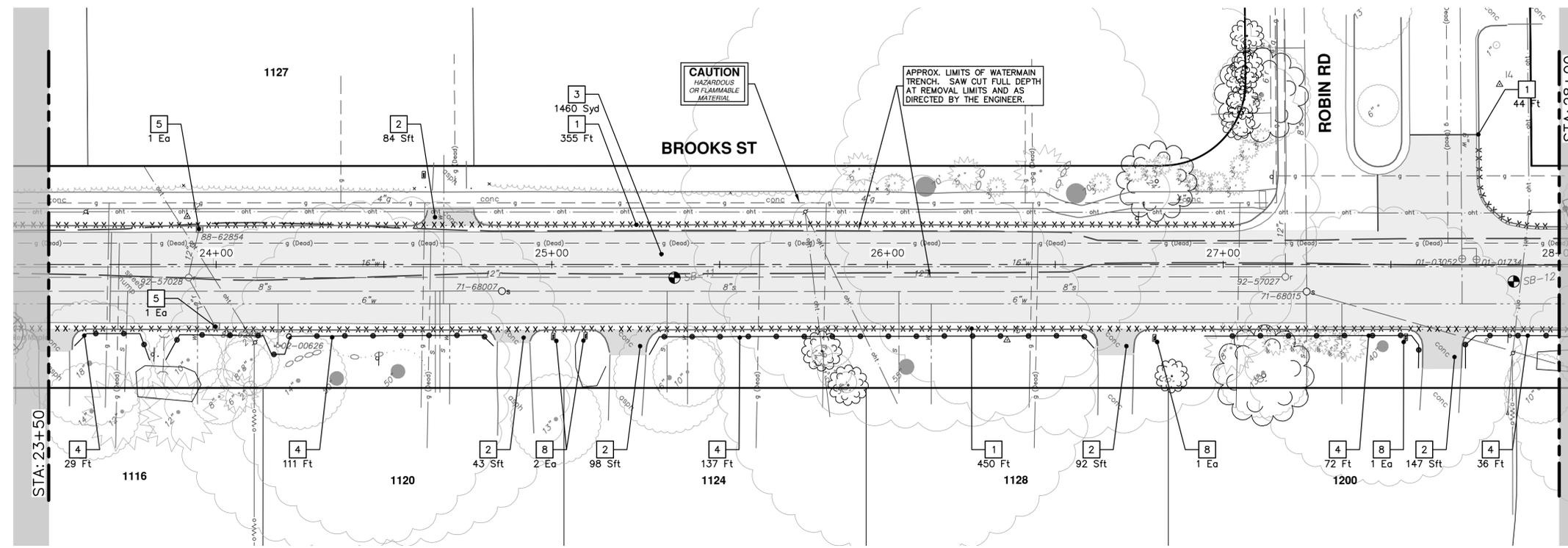
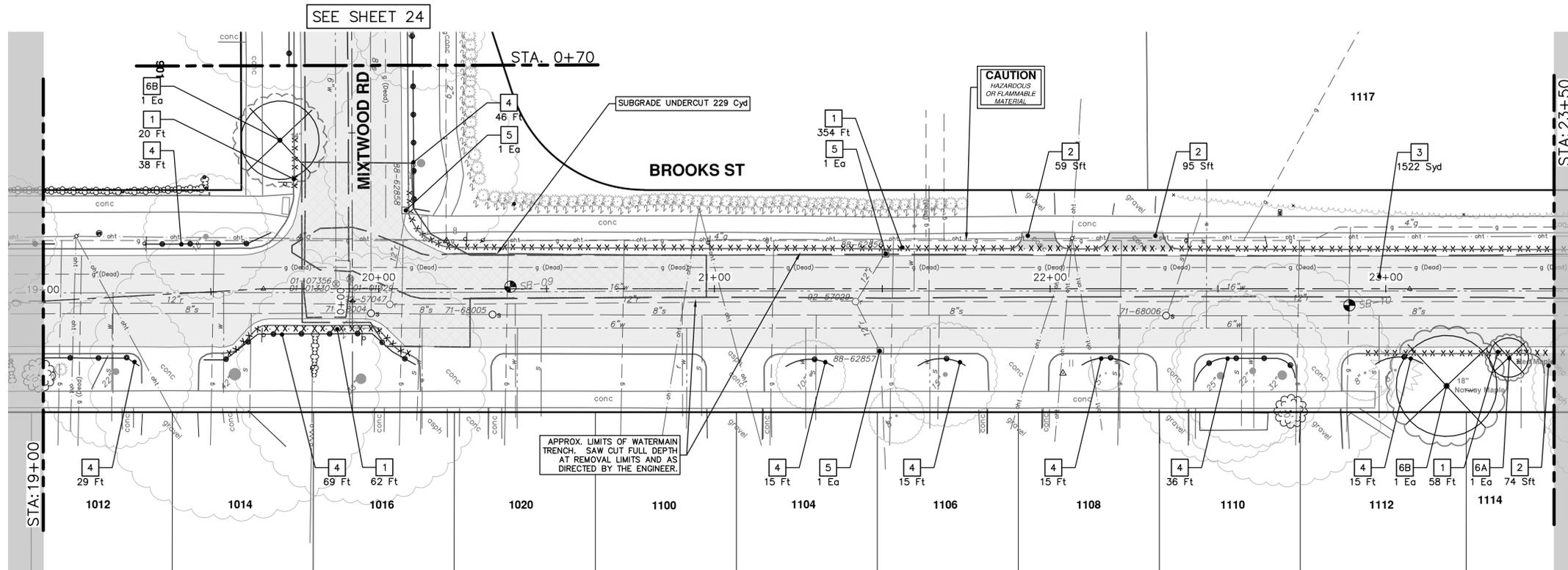


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00	OUT TO BID	3-13-23	CC/DF/RB	TB

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TREE REMOVAL TABLE

Size	Species	Northing	Easting
18"	Norway Maple	289340.4853	13287984.7437
7"	Red Maple	289358.7511	13287975.7415
14"		288990.8810	13287922.6598

REMOVAL KEY

KEY	DESCRIPTION
1	REMOVE CONCRETE CURB OR CURB AND GUTTER, - ANY TYPE*
2	REMOVE CONCRETE SIDEWALK AND DRIVE - ANY THICKNESS*
3	PAVEMENT REMOVAL, ANY DEPTH*
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5	INLET FILTER
6A	TREE REMOVAL, 6 INCH - 12 INCH
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6C	TREE REMOVAL, 25 INCH AND LARGER
7	SILT FENCE
8	MAILBOX (SALVAGE)
9	SPOADE TREE
10	COLD MILLING HMA SURFACE

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER

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DRAWN: CC/DF/KG
CHECKED: TB

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REMOVALS - BROOKS STREET
STA. 19+00 - STA. 28+00

DESCRIPTION: REV.
REV. 00: OUT TO BID
REV. 01: DATE: 3-13-23

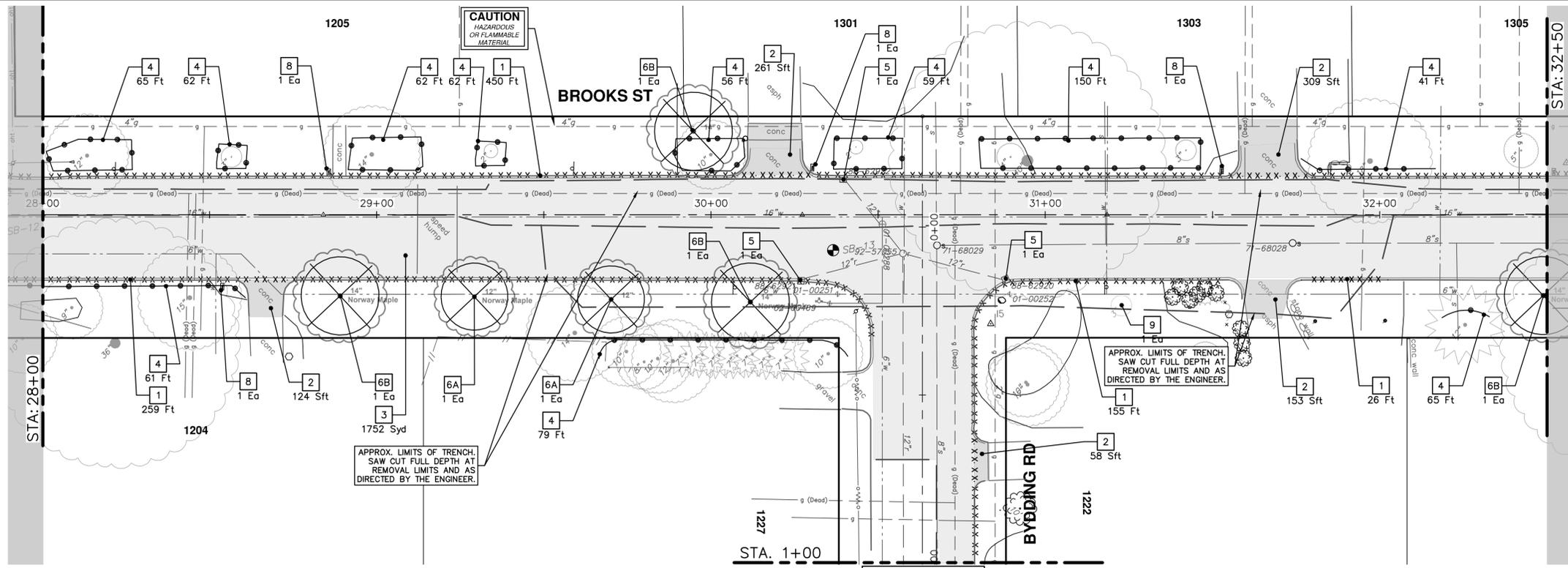
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ANN ARBOR MICHIGAN

SCALE: 1" = 20'

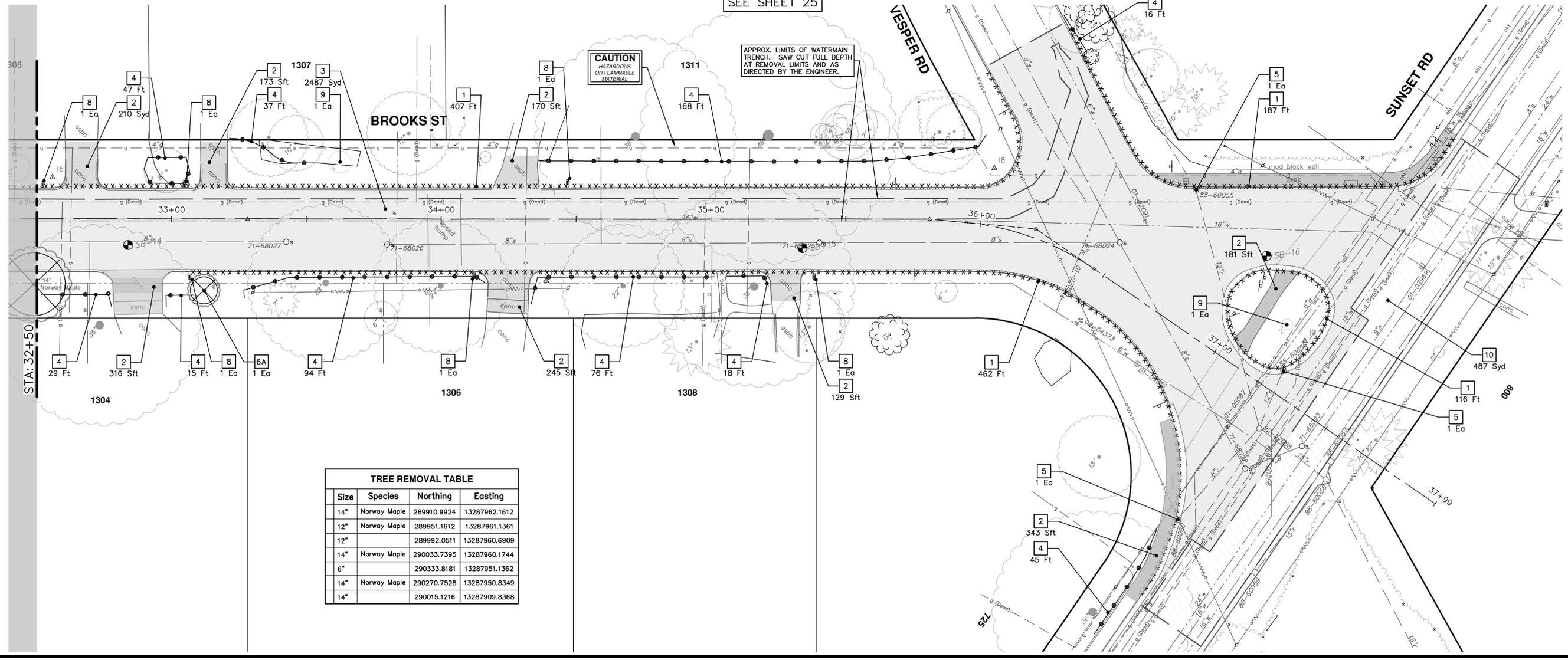
DRAWING No. 2021016-22
SHEET No. 22 OF 57

R:\2021016 Brooks Street\Plan Production\2021016Rem.dwg Dwg Created: 13-Mar-23 - _a2 standard bw.stb - Plot Date: 13-Mar-23



REMOVAL KEY	
KEY	DESCRIPTION
1	REMOVE CONCRETE CURB OR GUTTER, - ANY TYPE*
2	REMOVE CONCRETE SIDEWALK AND DRIVE - ANY THICKNESS*
3	PAVEMENT REMOVAL, ANY DEPTH*
4	PROTECTIVE FENCING
5	INLET FILTER
6A	TREE REMOVAL, 6 INCH - 12 INCH
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7	SILT FENCE
8	MAILBOX (SALVAGE)
9	SPADE TREE
10	COLD MILLING HMA SURFACE

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER



TREE REMOVAL TABLE			
Size	Species	Northing	Easting
14"	Norway Maple	289910.9924	13287962.1612
12"	Norway Maple	289951.1612	13287961.1361
12"		289992.0511	13287960.6909
14"	Norway Maple	290033.7395	13287960.1744
6"		290333.8181	13287951.1362
14"	Norway Maple	290270.7528	13287950.8349
14"		290015.1216	13287909.8368

REV.	DATE	DESCRIPTION
00	3-13-23	OUT TO BID
		CC/DF/KGB
		DRAWN
		CHECKED
		TB

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BROOKS STREET IMPROVEMENTS
 REMOVALS - BROOKS STREET
 STA. 28+00 - STA. 38+00

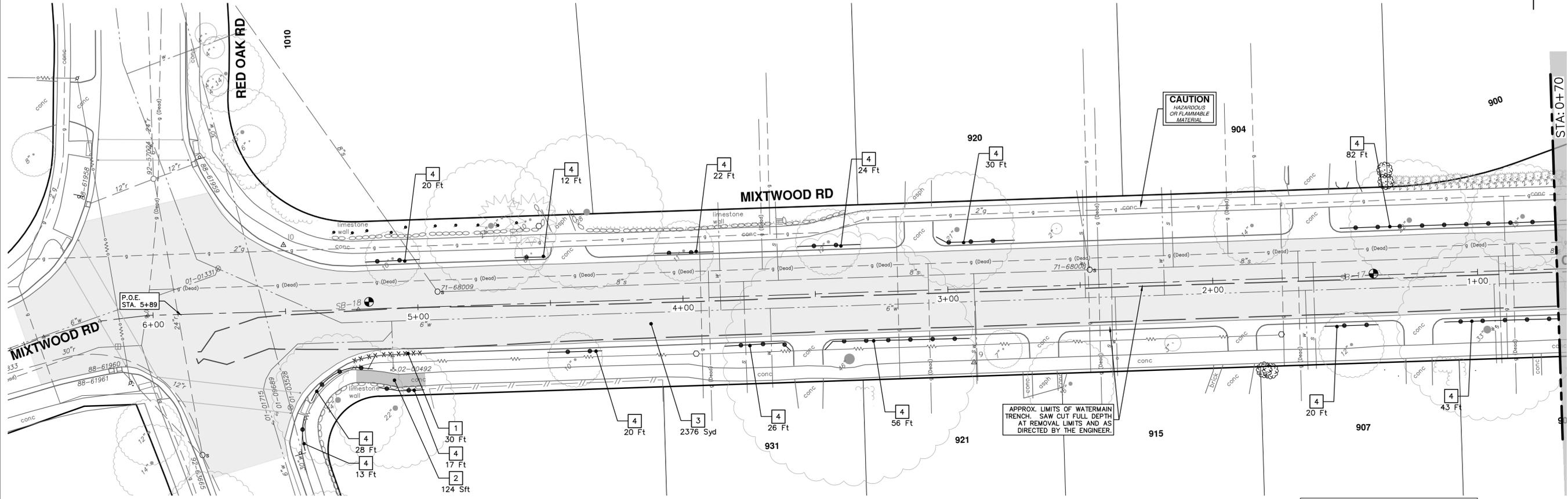
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SCALE: 1" = 20'

SHEET No. 23 OF 57

DRAWING No. 2021016-23

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SEE SHEET 22

REMOVAL KEY	
KEY	DESCRIPTION
1	REMOVE CONCRETE CURB OR CURB AND GUTTER, - ANY TYPE*
2	REMOVE CONCRETE SIDEWALK AND DRIVE - ANY THICKNESS*
3	PAVEMENT REMOVAL, ANY DEPTH*
4	PROTECTIVE FENCING
5	INLET FILTER
6A	TREE REMOVAL, 6 INCH - 12 INCH
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7	SILT FENCE
8	MAILBOX (SALVAGE)
9	SPADE TREE
10	COLD MILLING HMA SURFACE

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER



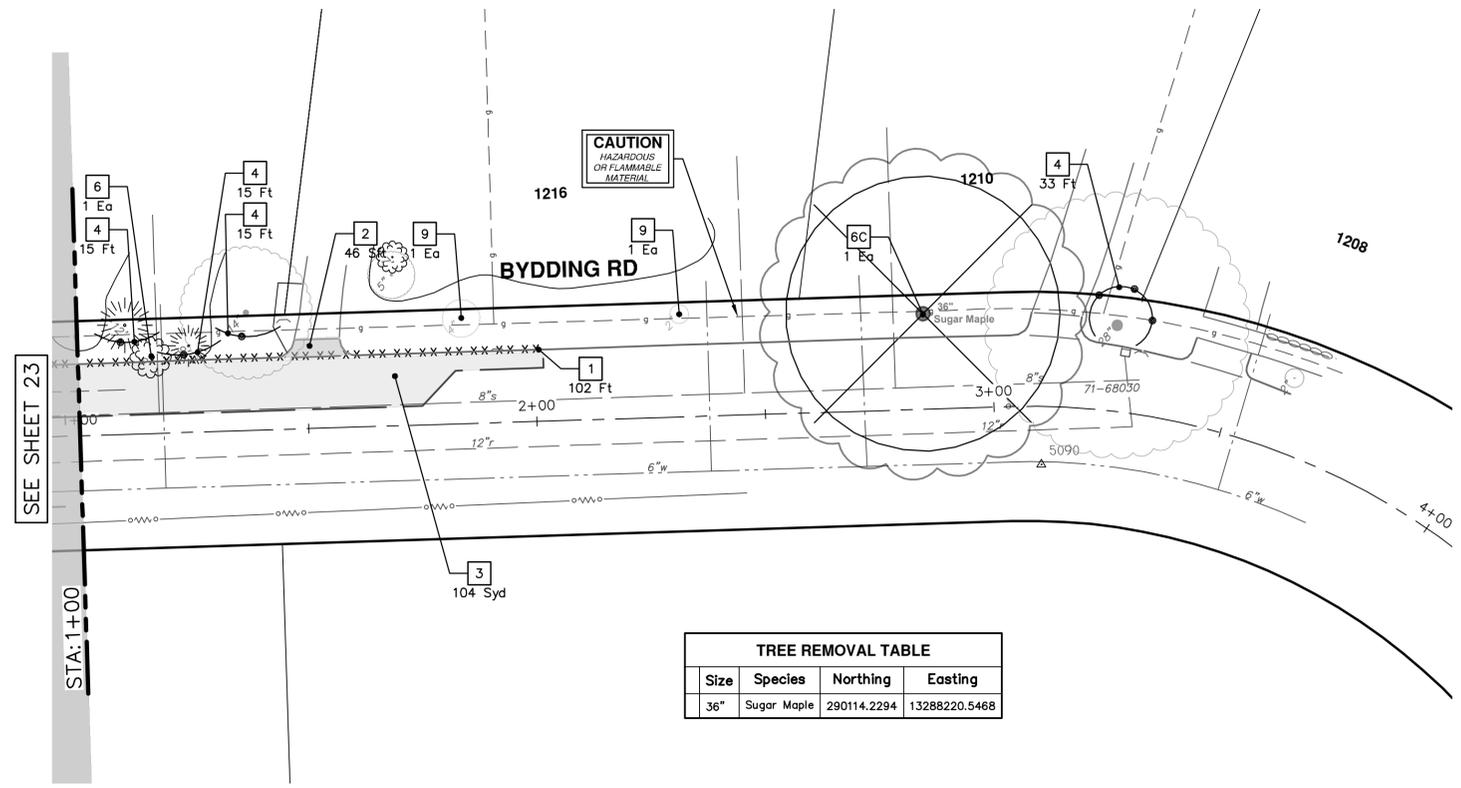
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BROOKS STREET IMPROVEMENTS
REMOVALS - MIXTWOOD ROAD
STA. 0+70 - STA. 7+00

SHEET No. 24 OF 57
SCALE: 1" = 20'
DRAWING No. 2021016-24

REV.	DESCRIPTION	DATE	CC/DF/AG	TB	CHECKED
00	OUT TO BID	3-13-23			



Size	Species	Northing	Easting
36"	Sugar Maple	290114.2294	13288220.5468

KEY	DESCRIPTION
1	REMOVE CONCRETE CURB OR CURB AND GUTTER, - ANY TYPE*
2	REMOVE CONCRETE SIDEWALK AND DRIVE - ANY THICKNESS*
3	PAVEMENT REMOVAL, ANY DEPTH*
4	PROTECTIVE FENCING
5	INLET FILTER
6A	TREE REMOVAL, 6 INCH - 12 INCH
6B	TREE REMOVAL, 13 INCH - 24 INCH
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7	SILT FENCE
8	MAILBOX (SALVAGE)
9	SPADE TREE
10	COLD MILLING HMA SURFACE

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER



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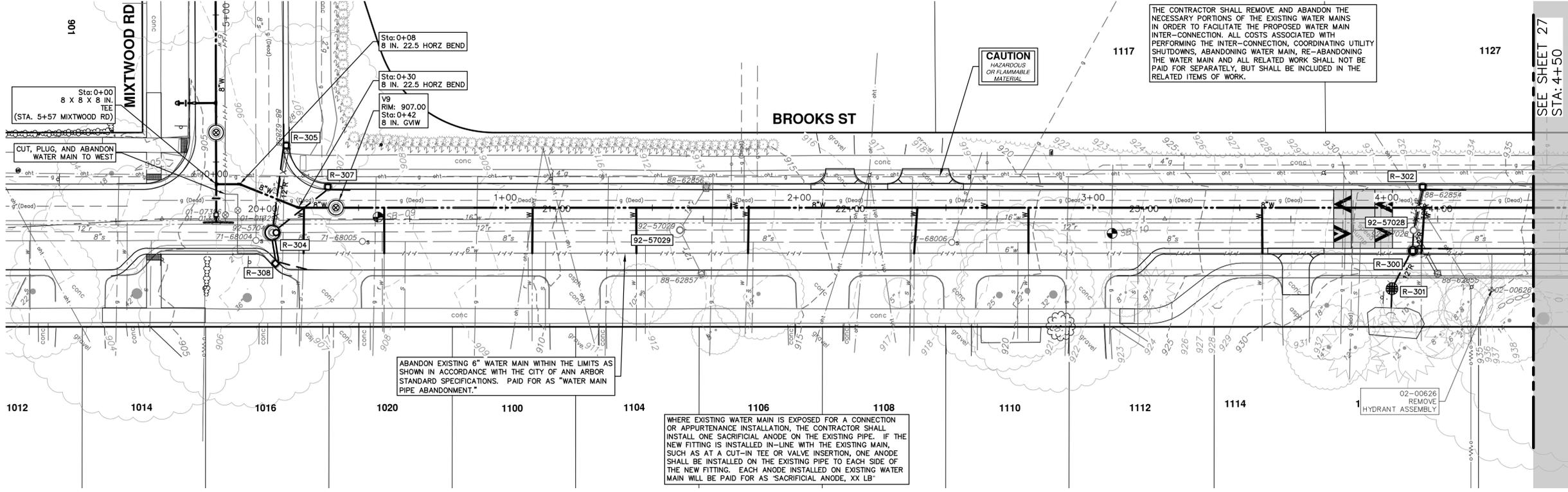
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BROOKS STREET IMPROVEMENTS
REMOVALS - BYDDING RD
STA. 1+00 - STA. 3+50

SCALE: 1" = 20'
DRAWING No. 2021016-25

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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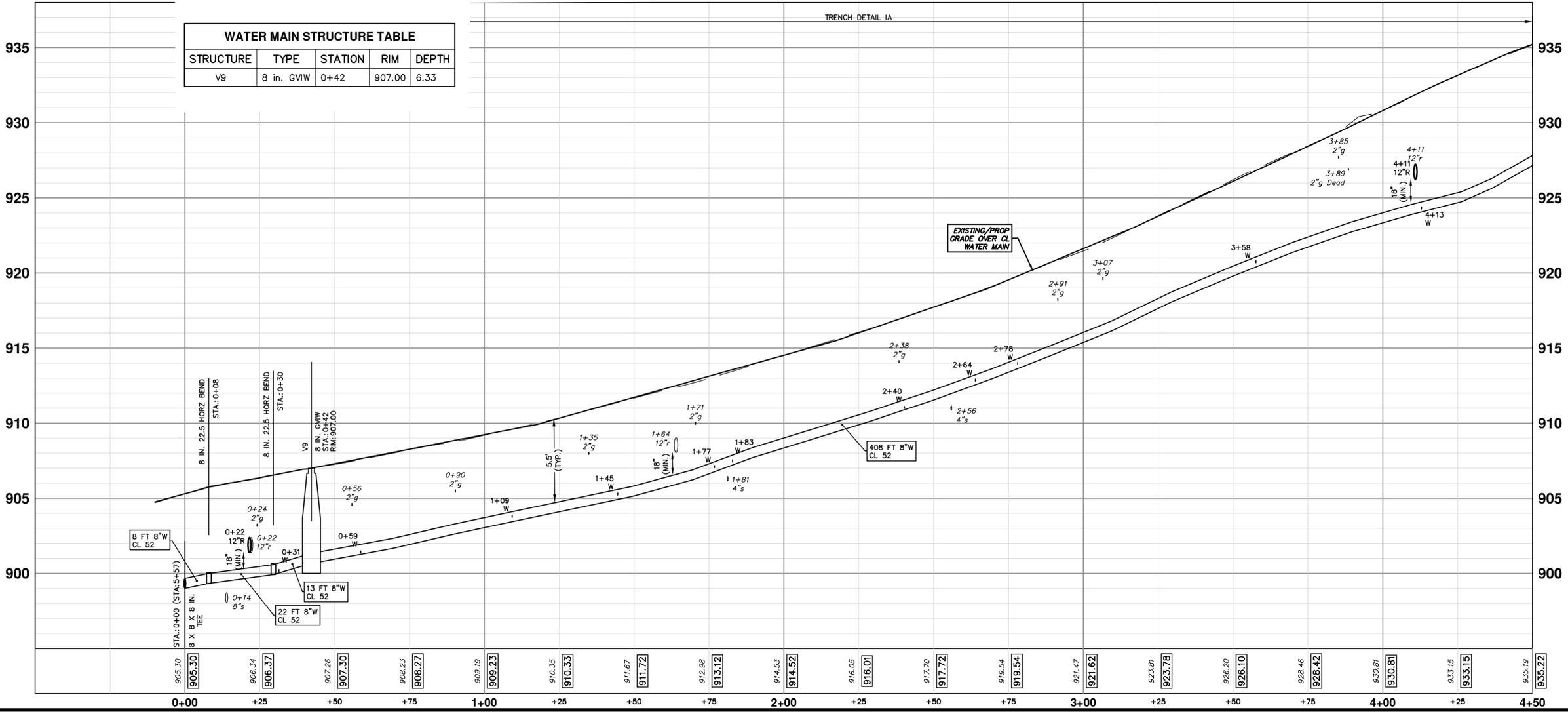
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SEE SHEET 31 FOR WATER MAIN ON MIXTWOOD RD



WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH
V9	8 in. GWV	0+42	907.00	6.33



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BROOKS STREET WATER MAIN
STA. 0+00 - STA. 4+50

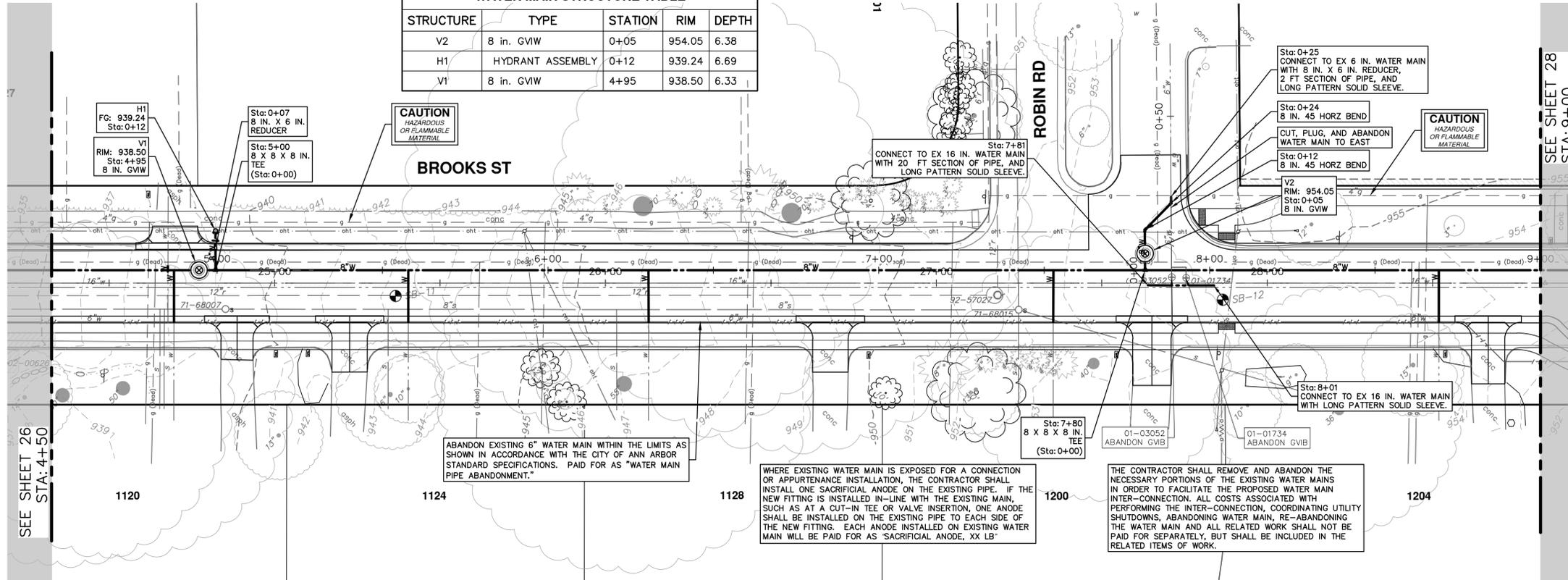
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING NO. 2021016-26

SHEET No. 26 OF 57

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT TO BID	3-13-23	CC/DF/KGB	TB

WATER MAIN STRUCTURE TABLE				
STRUCTURE	TYPE	STATION	RIM	DEPTH
V2	8 in. G.V.W.	0+05	954.05	6.38
H1	HYDRANT ASSEMBLY	0+12	939.24	6.69
V1	8 in. G.V.W.	4+95	938.50	6.33



CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

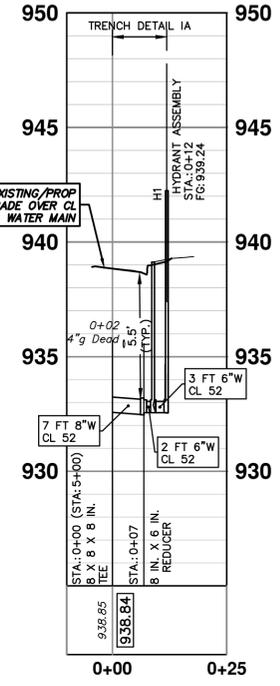
CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

ABANDON EXISTING 6" WATER MAIN WITHIN THE LIMITS AS SHOWN IN ACCORDANCE WITH THE CITY OF ANN ARBOR STANDARD SPECIFICATIONS. PAID FOR AS "WATER MAIN PIPE ABANDONMENT."

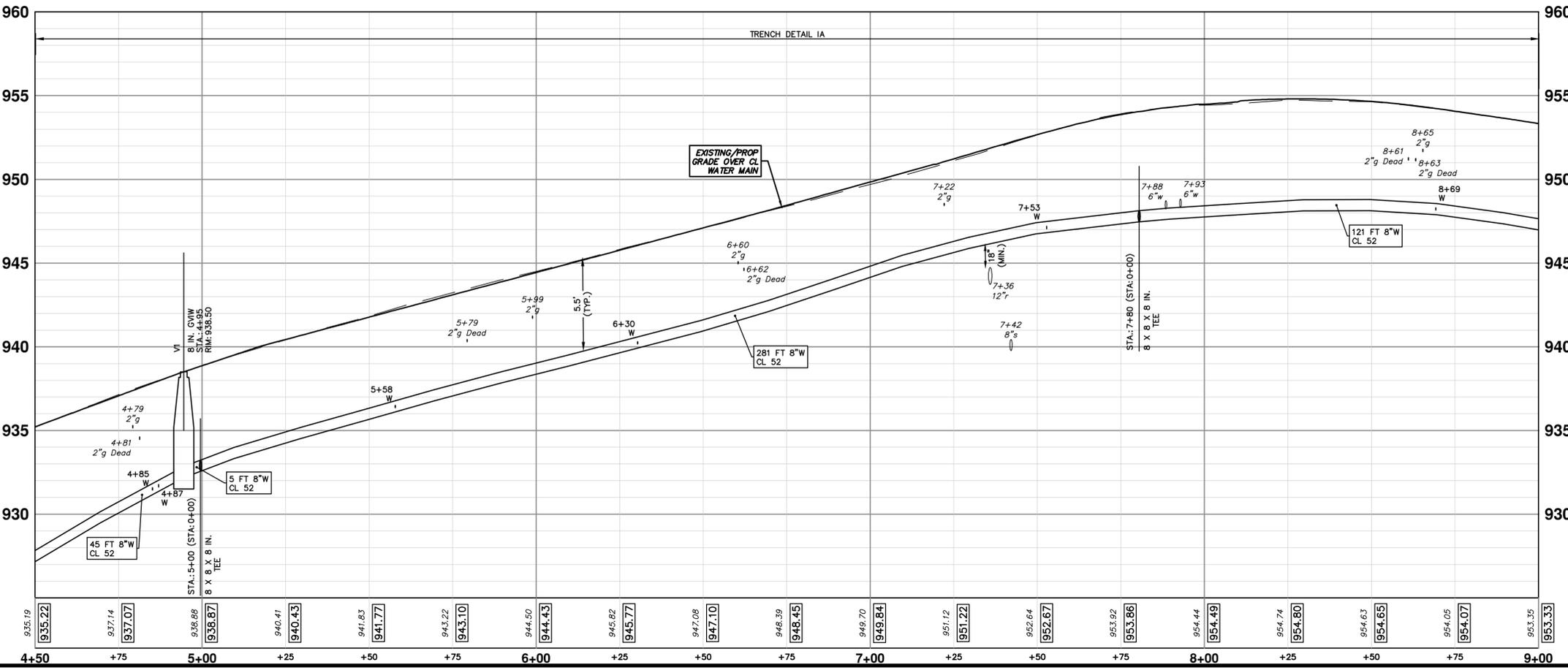
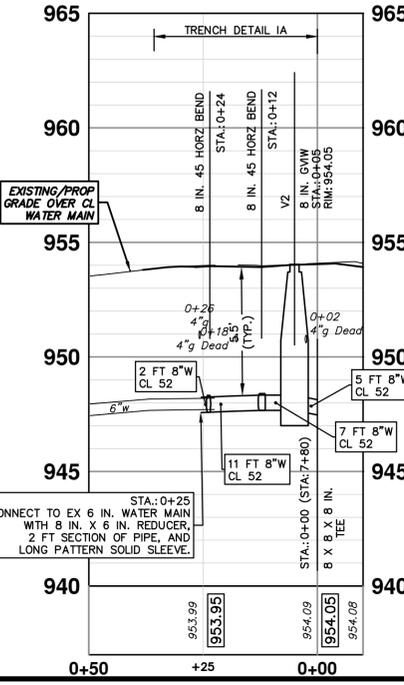
WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS "SACRIFICIAL ANODE, XX LB"

THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.

HYDRANT H1



ROBIN WM



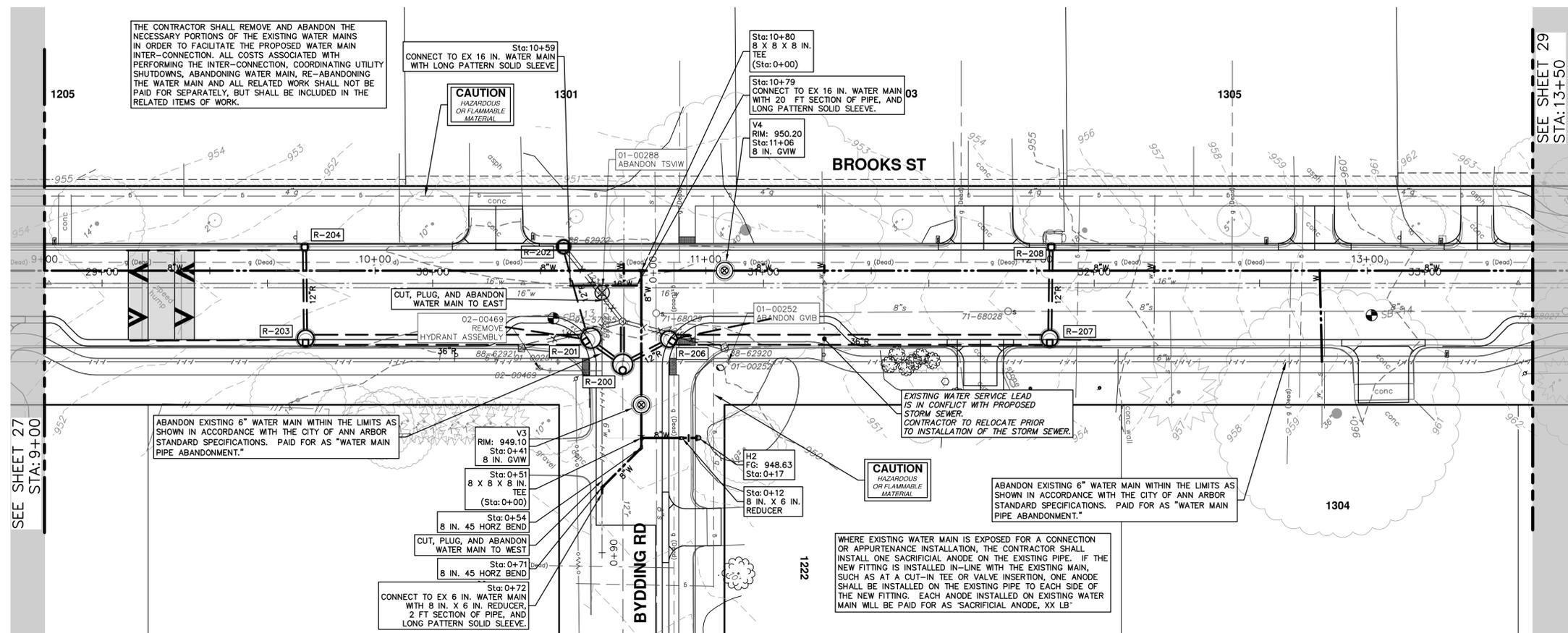
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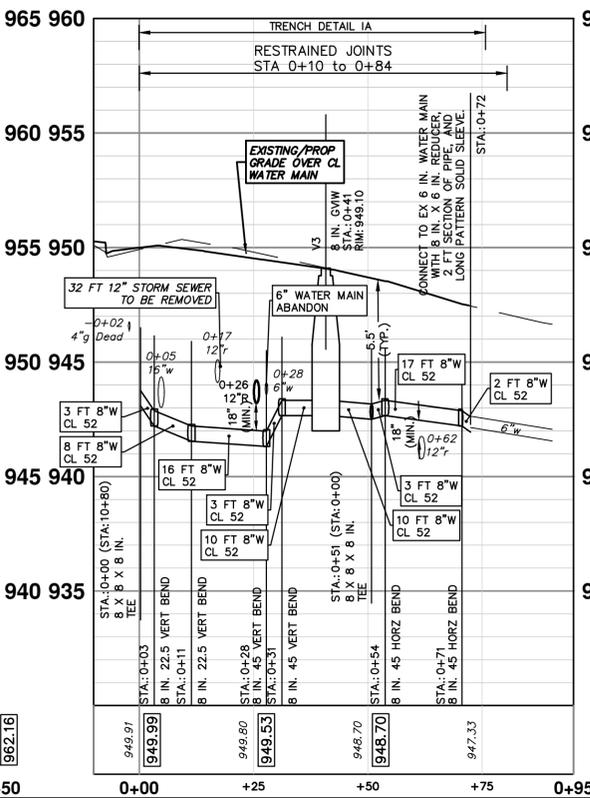
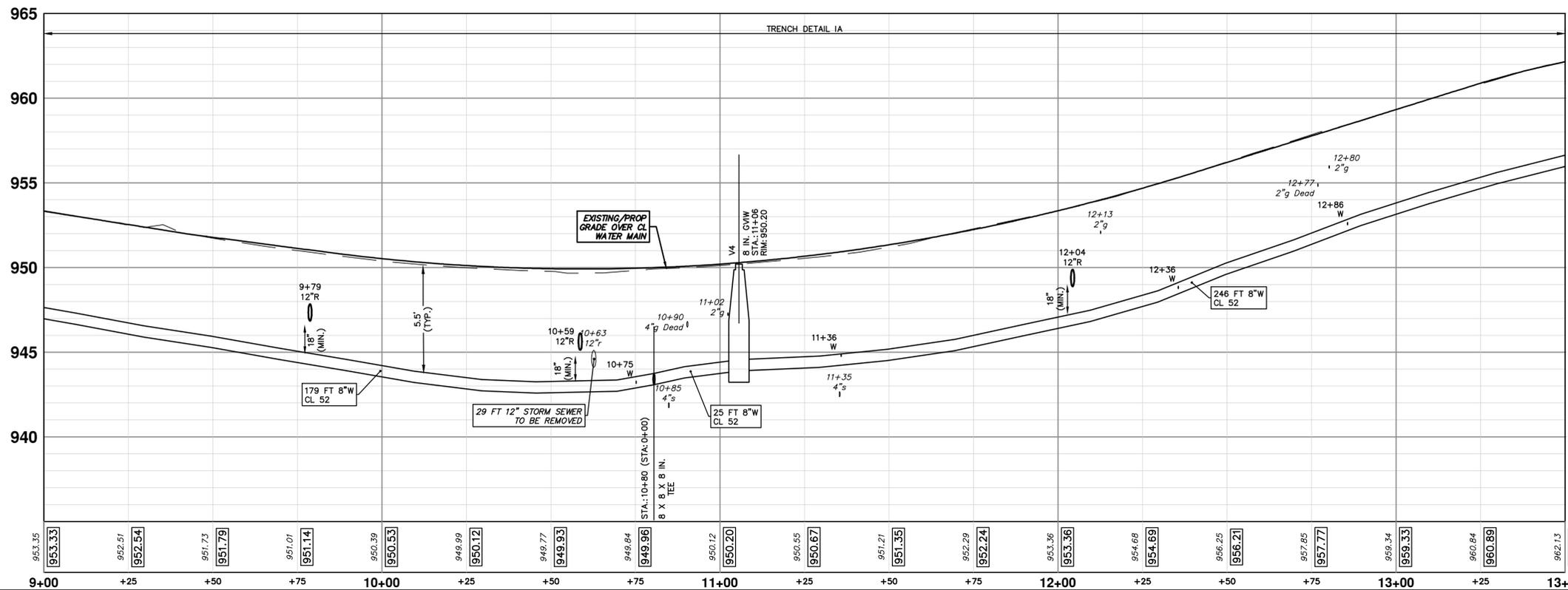
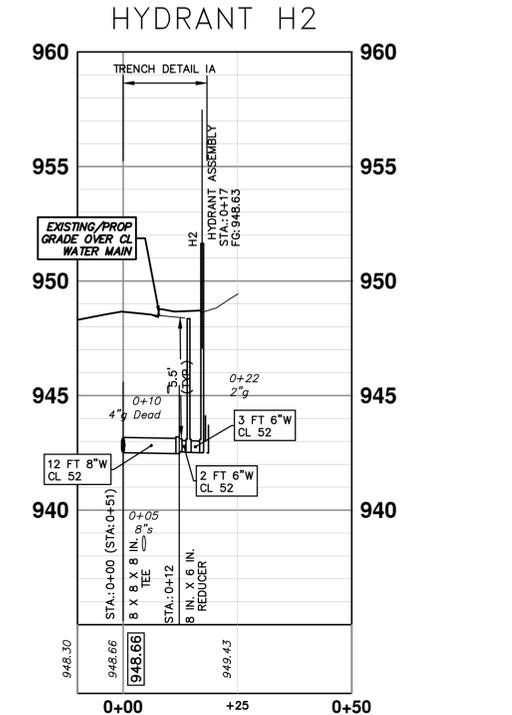
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BROOKS STREET IMPROVEMENTS
BROOKS STREET WATER MAIN
STA. 4+50 - STA. 9+00

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING NO. 2021016-27
SHEET NO. 27 OF 57



WATER MAIN STRUCTURE TABLE				
STRUCTURE	TYPE	STATION	RIM	DEPTH
H2	HYDRANT ASSEMBLY	0+17	948.63	6.13
V3	8 in. GVIW	0+41	949.10	6.44
V4	8 in. GVIW	11+06	950.20	6.30





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		DRAWN
		CHECKED



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BROOKS STREET IMPROVEMENTS
BROOKS STREET WATER MAIN

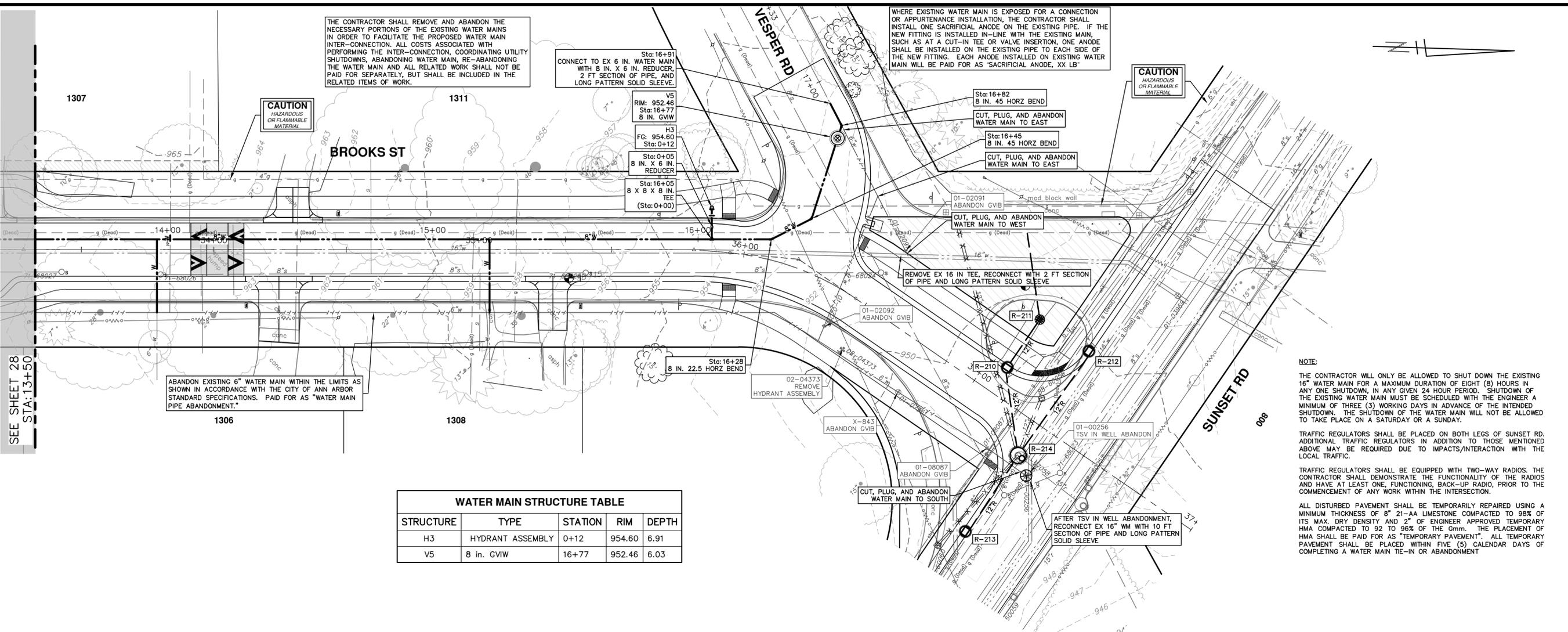
STA. 9+00 - STA. 13+50

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING NO. 2021016-28

SHEET NO. 28 OF 57

R:\2021016 Brooks Street\Plan Production\2021016Wat1.dwg Dwg Created: 8-Mar-23 - _a2 standard bw.stb - Plot Date: 13-Mar-23



THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.

WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS 'SACRIFICIAL ANODE, XX LB'

CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

ABANDON EXISTING 6" WATER MAIN WITHIN THE LIMITS AS SHOWN IN ACCORDANCE WITH THE CITY OF ANN ARBOR STANDARD SPECIFICATIONS. PAID FOR AS "WATER MAIN PIPE ABANDONMENT."

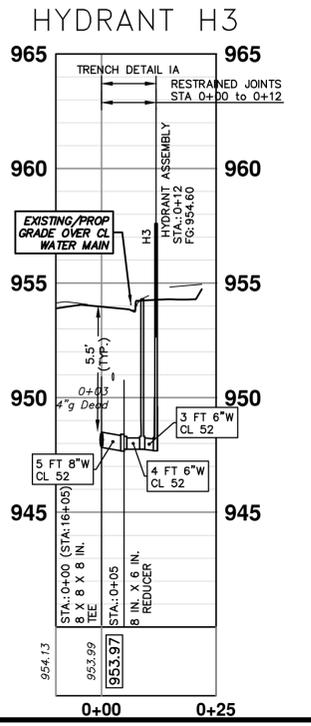
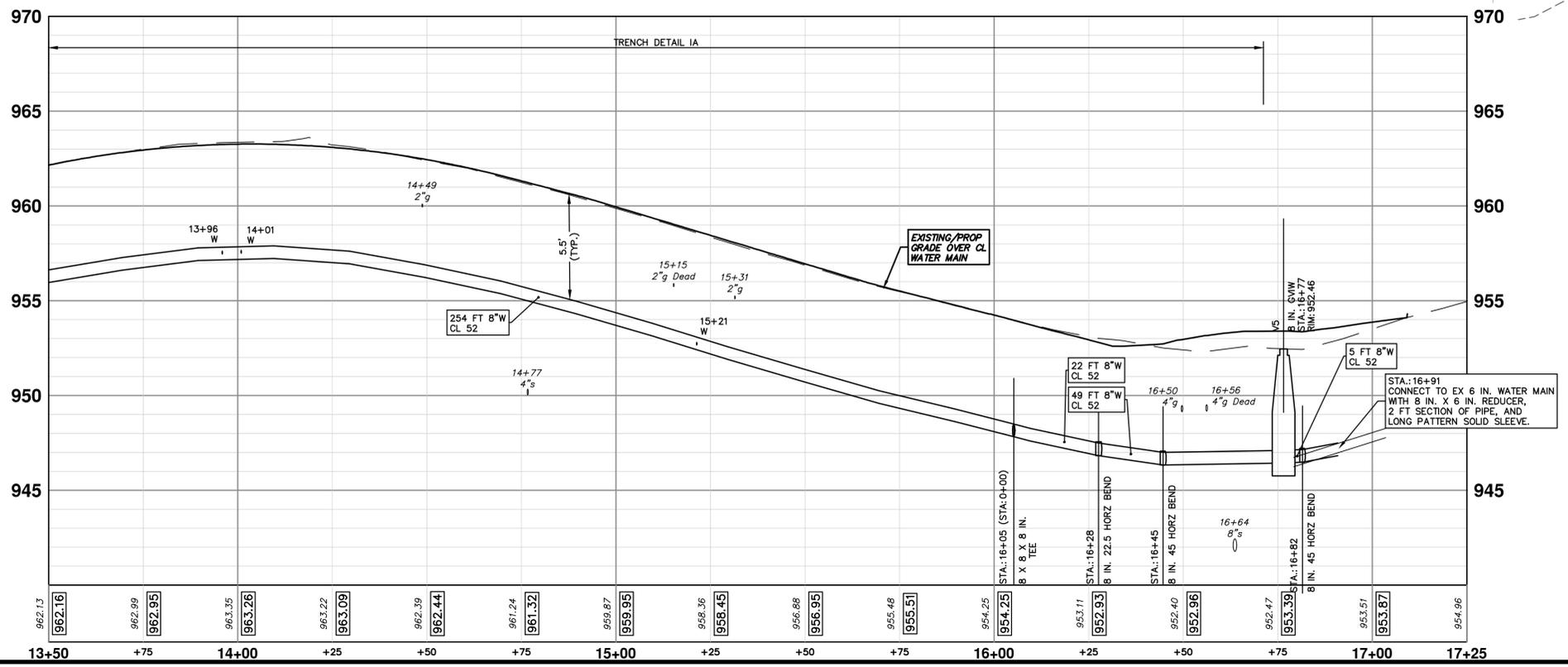
NOTE:
THE CONTRACTOR WILL ONLY BE ALLOWED TO SHUT DOWN THE EXISTING 16" WATER MAIN FOR A MAXIMUM DURATION OF EIGHT (8) HOURS IN ANY ONE SHUTDOWN, IN ANY GIVEN 24 HOUR PERIOD. SHUTDOWN OF THE EXISTING WATER MAIN MUST BE SCHEDULED WITH THE ENGINEER A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE OF THE INTENDED SHUTDOWN. THE SHUTDOWN OF THE WATER MAIN WILL NOT BE ALLOWED TO TAKE PLACE ON A SATURDAY OR A SUNDAY.

TRAFFIC REGULATORS SHALL BE PLACED ON BOTH LEGS OF SUNSET RD. ADDITIONAL TRAFFIC REGULATORS IN ADDITION TO THOSE MENTIONED ABOVE MAY BE REQUIRED DUE TO IMPACTS/INTERACTION WITH THE LOCAL TRAFFIC.

TRAFFIC REGULATORS SHALL BE EQUIPPED WITH TWO-WAY RADIOS. THE CONTRACTOR SHALL DEMONSTRATE THE FUNCTIONALITY OF THE RADIOS AND HAVE AT LEAST ONE, FUNCTIONING, BACK-UP RADIO, PRIOR TO THE COMMENCEMENT OF ANY WORK WITHIN THE INTERSECTION.

ALL DISTURBED PAVEMENT SHALL BE TEMPORARILY REPAIRED USING A MINIMUM THICKNESS OF 8" 21-AA LESTONE COMPACTED TO 98% OF ITS MAX. DRY DENSITY AND 2" OF ENGINEER APPROVED TEMPORARY HMA COMPACTED TO 92 TO 98% OF THE Gmm. THE PLACEMENT OF HMA SHALL BE PAID FOR AS "TEMPORARY PAVEMENT". ALL TEMPORARY PAVEMENT SHALL BE PLACED WITHIN FIVE (5) CALENDAR DAYS OF COMPLETING A WATER MAIN TIE-IN OR ABANDONMENT.

WATER MAIN STRUCTURE TABLE				
STRUCTURE	TYPE	STATION	RIM	DEPTH
H3	HYDRANT ASSEMBLY	0+12	954.60	6.91
V5	8 in. GVIW	16+77	952.46	6.03



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

DATE: 3-13-23
DRAWN: CC/DF/KG
CHECKED: TB

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROOKS STREET IMPROVEMENTS
BROOKS STREET WATER MAIN
STA. 13+50 - STA. 17+67

REV. DESCRIPTION

00 OUT TO BID

01-02091 ABANDON GVIW
CUT, PLUG, AND ABANDON WATER MAIN TO WEST

01-02092 ABANDON GVIW
CUT, PLUG, AND ABANDON WATER MAIN TO WEST

01-02093 ABANDON GVIW
CUT, PLUG, AND ABANDON WATER MAIN TO WEST

01-02094 ABANDON GVIW
CUT, PLUG, AND ABANDON WATER MAIN TO WEST

01-02095 ABANDON GVIW
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01-02096 ABANDON GVIW
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01-02097 ABANDON GVIW
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01-02098 ABANDON GVIW
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01-02099 ABANDON GVIW
CUT, PLUG, AND ABANDON WATER MAIN TO WEST

01-02100 ABANDON GVIW
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01-02101 ABANDON GVIW
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01-02102 ABANDON GVIW
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01-02103 ABANDON GVIW
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01-02104 ABANDON GVIW
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CUT, PLUG, AND ABANDON WATER MAIN TO WEST

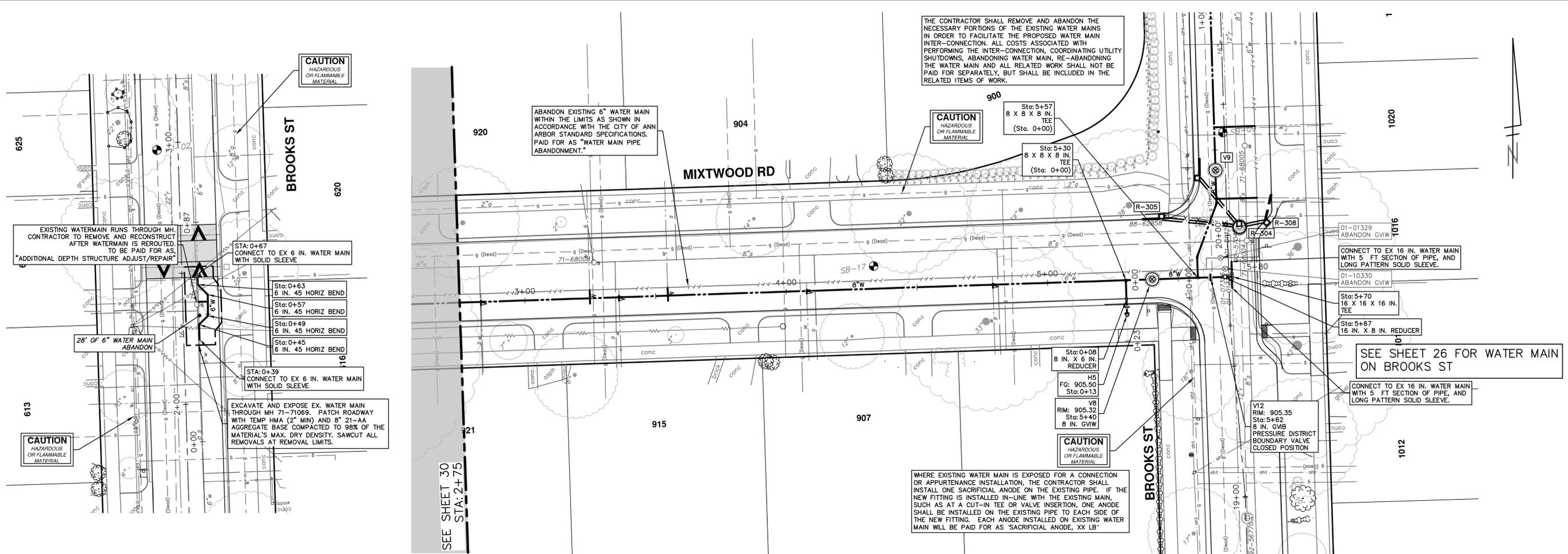
01-02200 ABANDON GVIW
CUT, PLUG, AND ABANDON WATER MAIN TO WEST

SHEET PLAN: 1" = 20'
PROFILE: 1" = 4'

SCALE: 1" = 20'
PROFILE: 1" = 4'

DRAWING NO. 2021016-29

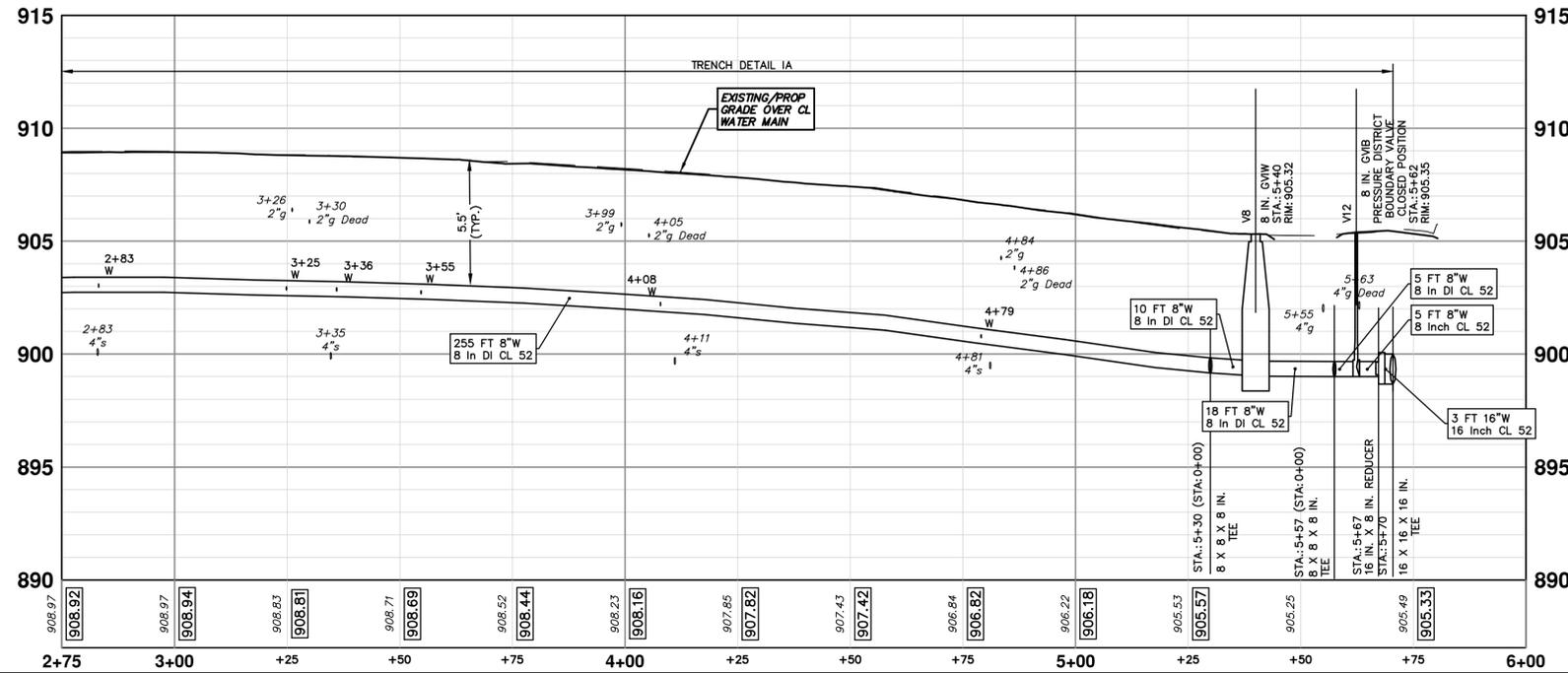
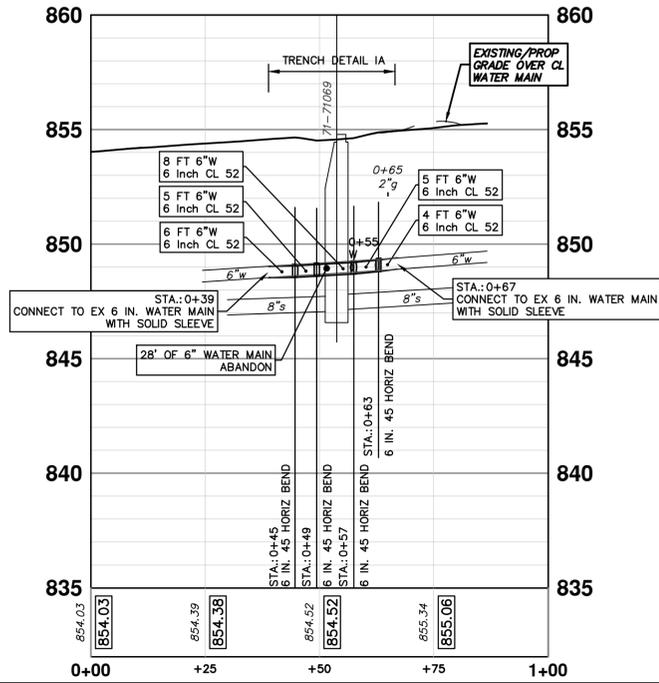
SHEET NO. 29 OF 57



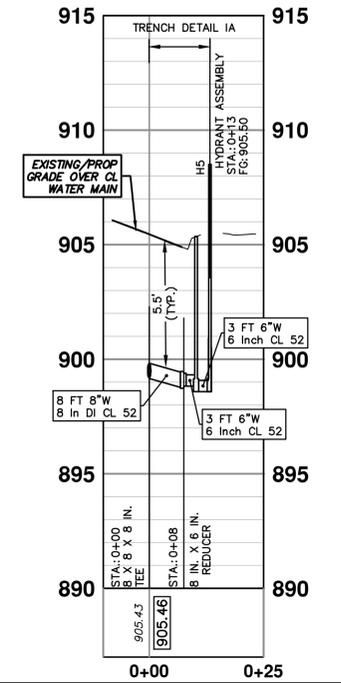
WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH
H5	HYDRANT ASSEMBLY	0+13	905.50	6.92
V8	8 in. GVIW	5+40	905.32	6.29
V12	8 in. GVB PRESSURE DISTRICT BOUNDARY VALVE CLOSED POSITION	5+62	905.35	6.35

71-71069 BY-PASS



HYDRANT H5





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REV.	DATE	DESCRIPTION
00	3-13-23	CC/DF/KGB
		TB
		CHECKED



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ANN ARBOR, MI 48106-6647
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

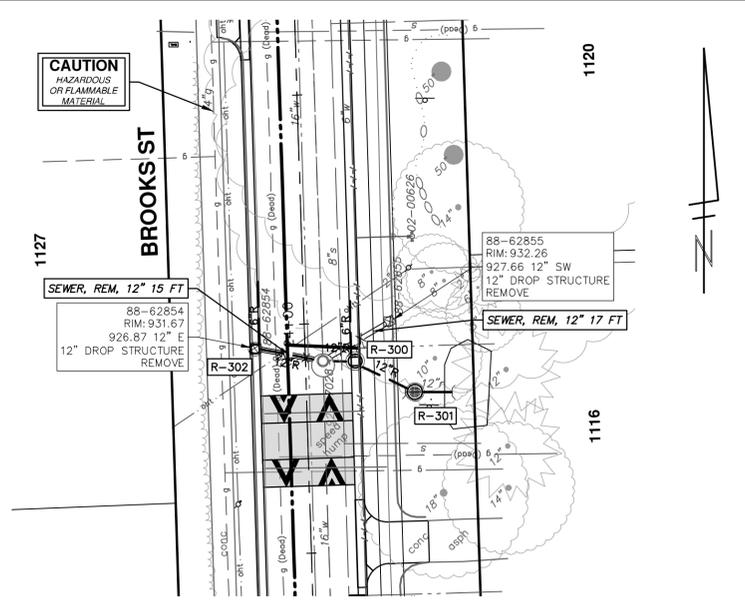
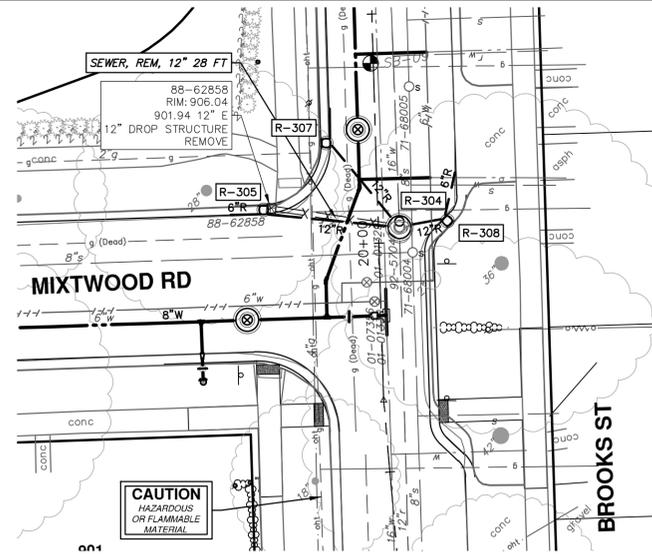
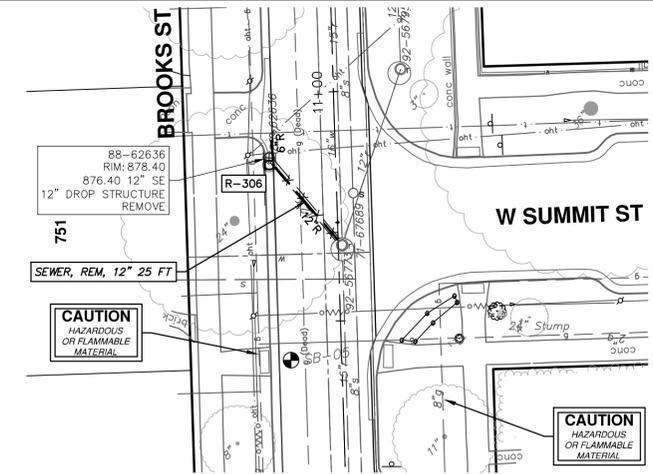
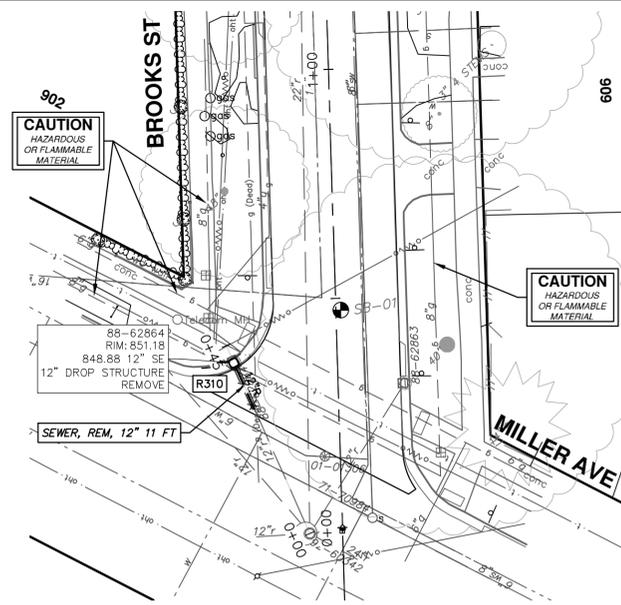
BROOKS STREET IMPROVEMENTS

MIXTWOOD ROAD WATER MAIN STA. 2+75 - STA. 5+70
BROOKS ST. WATER MAIN RELOCATION STA. 0+39 - STA. 0+67

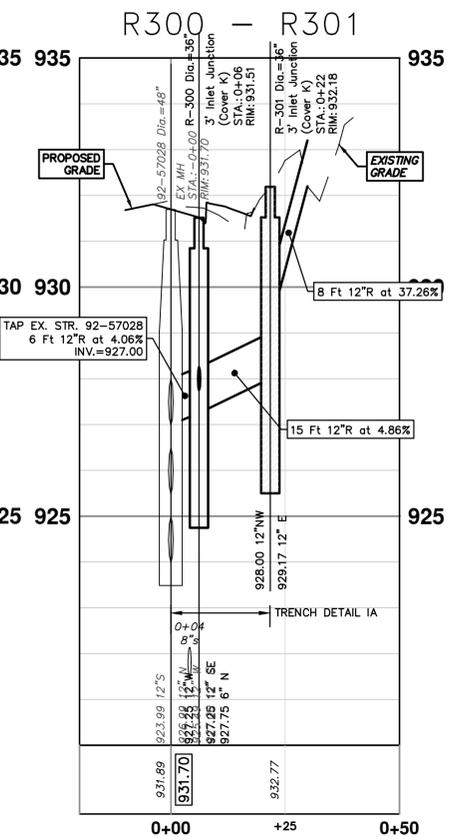
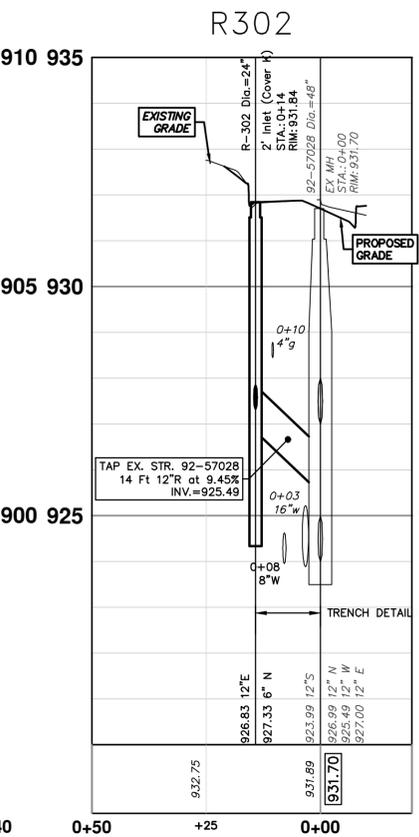
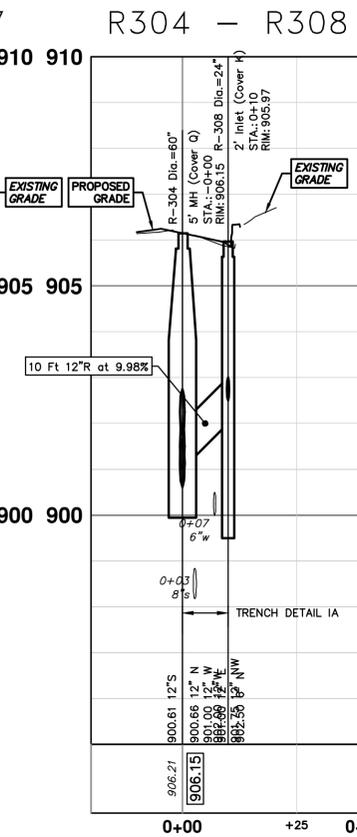
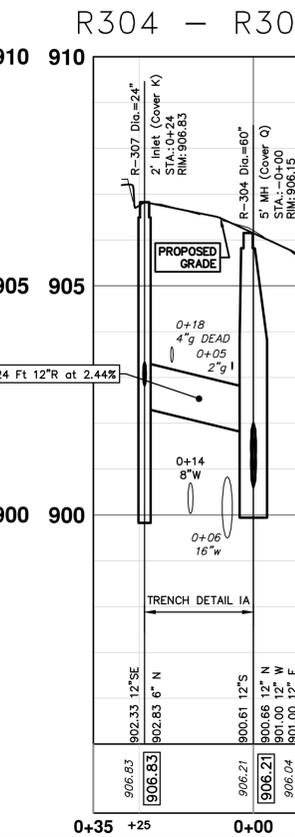
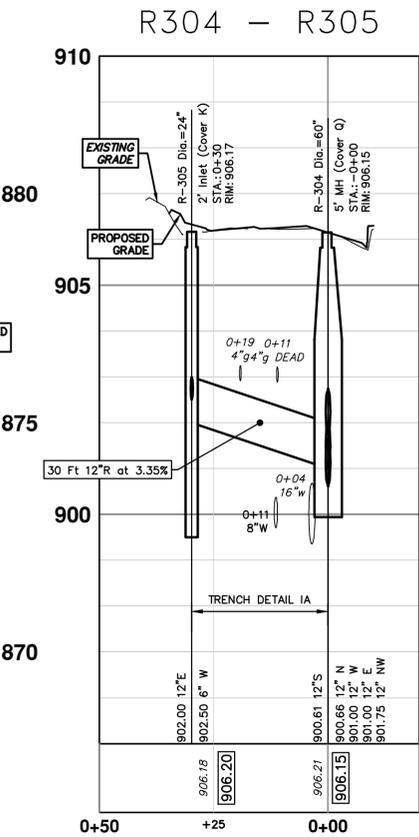
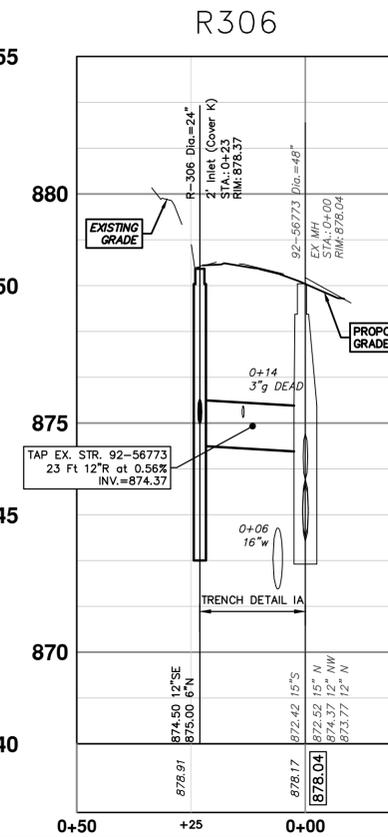
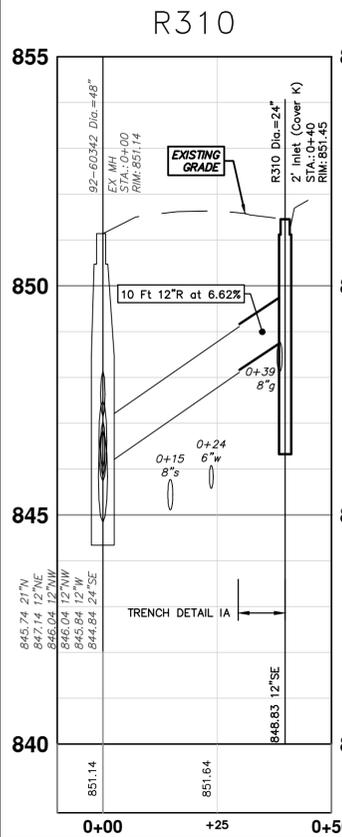
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING NO. 2021016-31

SHEET NO. 31 OF 57



STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-300	0+06	3' Inlet Junction (Cover K)	931.51	12" SE 927.25 6" N 927.75 12" W 927.25	6.26	2'
R-301	0+22	3' Inlet Junction (Cover K)	932.18	12" E 929.17 12" NW 928.00	6.18	2'
R-302	0+14	2' Inlet (Cover K)	931.84	6" N 927.33 12" E 926.83	7.01	2'
R-304	0+00	5' MH (Cover Q)	906.15	12" N 900.66 12" W 901.00 12" NW 901.75 12" S 900.61	5.54	0'
R-305	0+30	2' Inlet (Cover K)	906.17	6" W 902.50 12" E 902.00	6.17	2'
R-306	0+23	2' Inlet (Cover K)	878.37	12" SE 874.50 6" N 875.00	5.87	2'
R-307	0+24	2' Inlet (Cover K)	906.83	6" N 902.83 12" SE 902.33	6.50	2'
R-308	0+10	2' Inlet (Cover K)	905.97	6" N 902.50 12" W 902.00	5.97	2'
R310	0+40	2' Inlet (Cover K)	851.45	12" SE 848.83	4.62	2'





Know what's below.
Call before you dig.

REV.	DATE	DESCRIPTION
00	3-13-23	CC/DF/KGB
01		DRAWN
02		CHECKED
03		TB



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ANN ARBOR, MI 48106-8647
www.a3gov.org

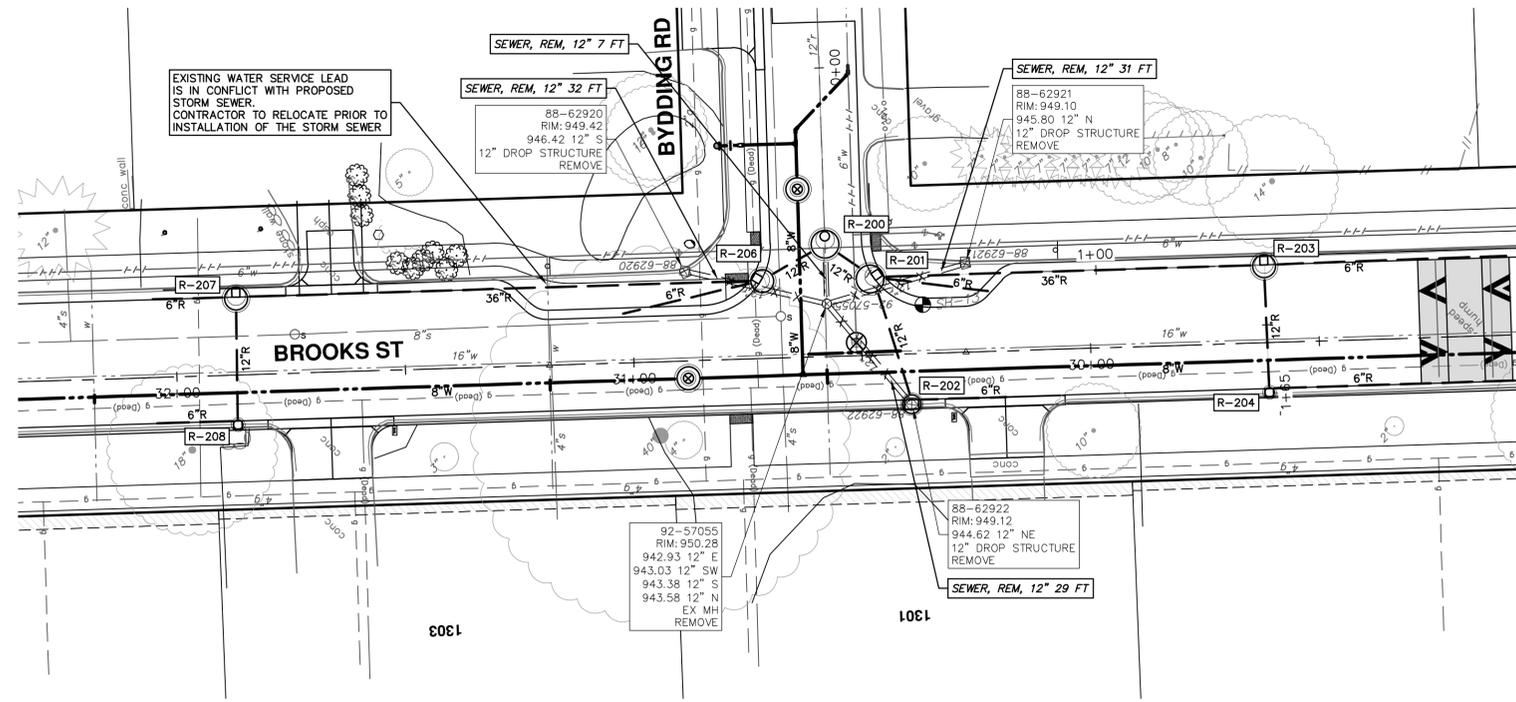
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROOKS STREET IMPROVEMENTS
STORM SEWER

R300, R301, R302, R304, R305, R306, R307, R308, R310

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

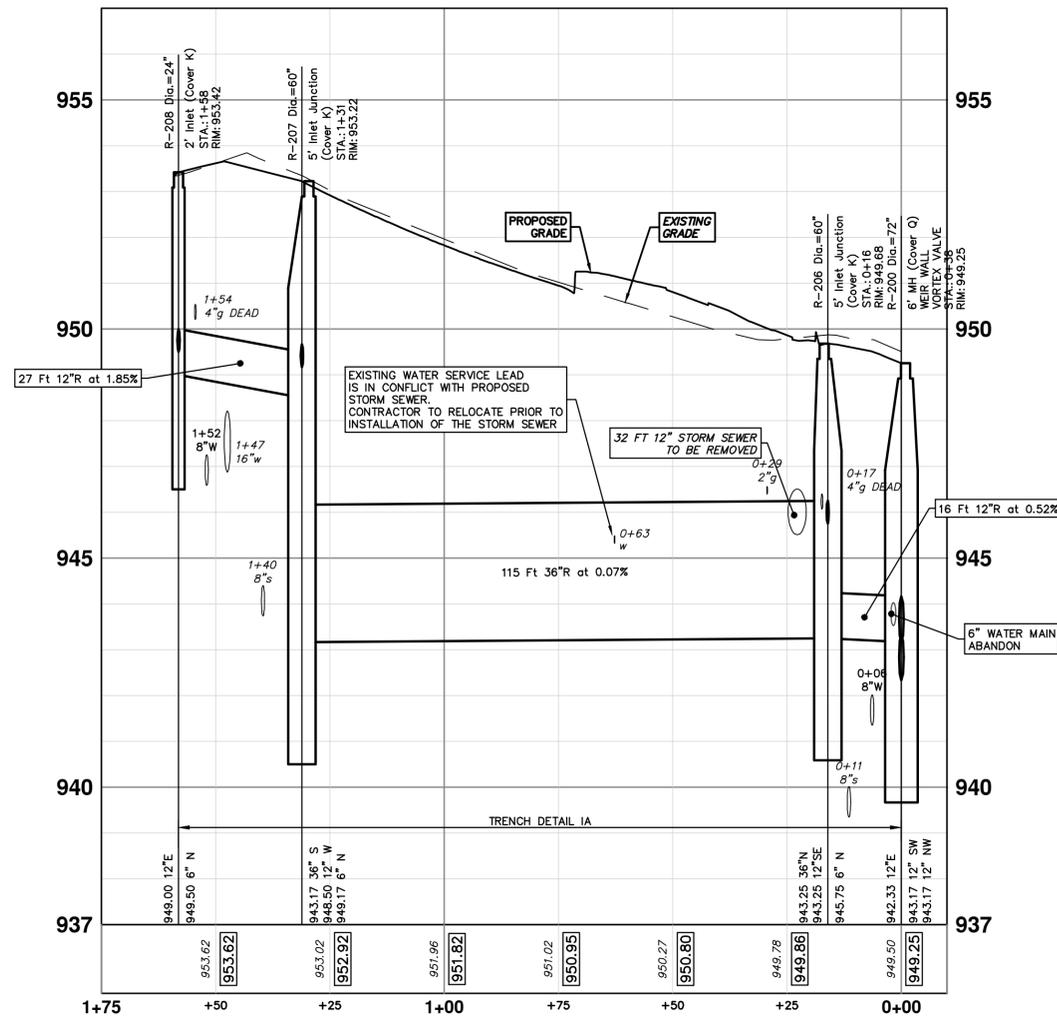
DRAWING NO. 2021016-32
SHEET NO. 32 OF 57

R:\2021016 Brooks Street\Plan Production\2021016S1rm.dwg Dwg Created: 9-Mar-23 - a2 standard bw.stb - Plot Date: 13-Mar-23

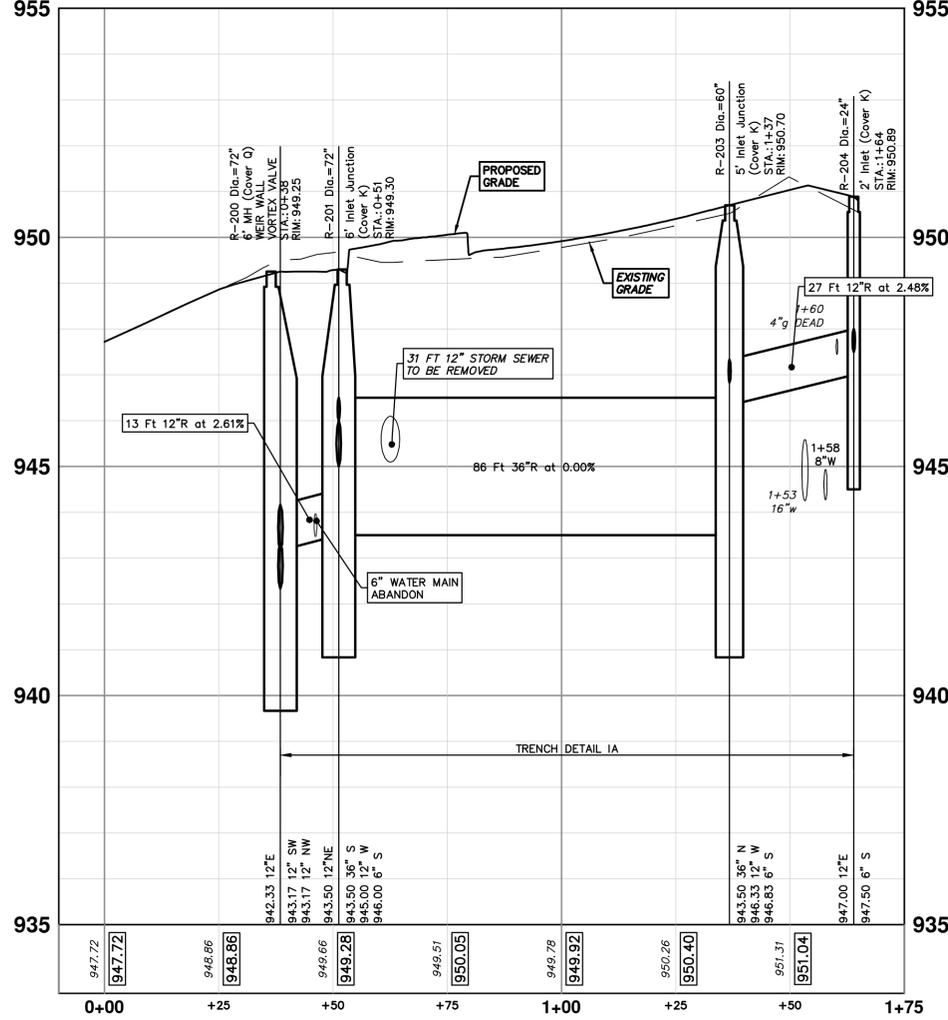


STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-200	0+38	6' MH (Cover Q) WEIR WALL VORTEX VALVE	949.25	12" SW 943.17 12" NW 943.17 12" E 942.33	8.92	2'
R-201	0+51	6' Inlet Junction (Cover K)	949.30	36" S 943.50 12" W 945.00 6" S 946.00 12" NE 943.50	7.80	2'
R-202	0+28	4' Low Point Inlet	949.76	6" S 945.67 12" E 945.17	6.60	2'
R-203	1+37	5' Inlet Junction (Cover K)	950.70	36" N 943.50 12" W 946.33 6" S 946.83	9.20	2'
R-204	1+64	2' Inlet (Cover K)	950.89	6" S 947.50 12" E 947.00	5.89	2'
R-206	0+16	5' Inlet Junction (Cover K)	949.68	6" N 945.75 36" N 943.25 12" SE 943.25	8.43	2'
R-207	1+31	5' Inlet Junction (Cover K)	953.22	36" S 943.17 12" W 948.50 6" N 949.17	12.06	2'
R-208	1+58	2' Inlet (Cover K)	953.42	6" N 949.50 12" E 949.00	6.42	2'

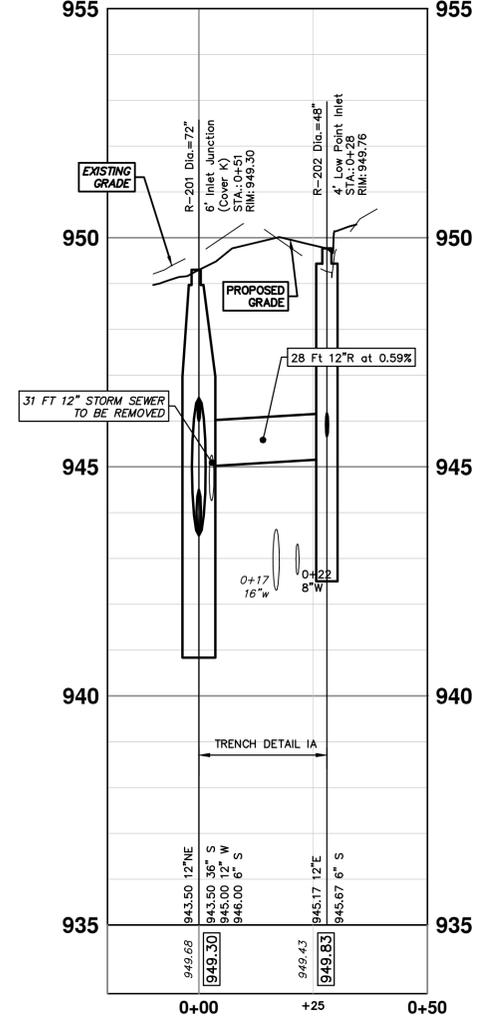
R200 - R208



R200 - R204



R202



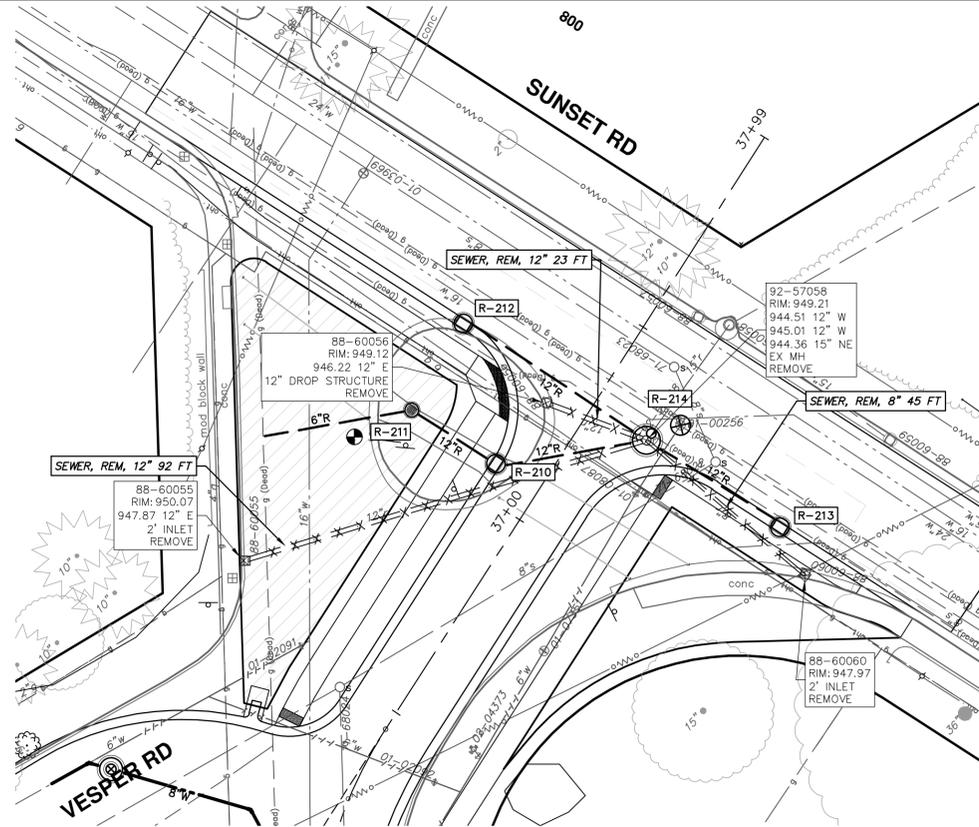
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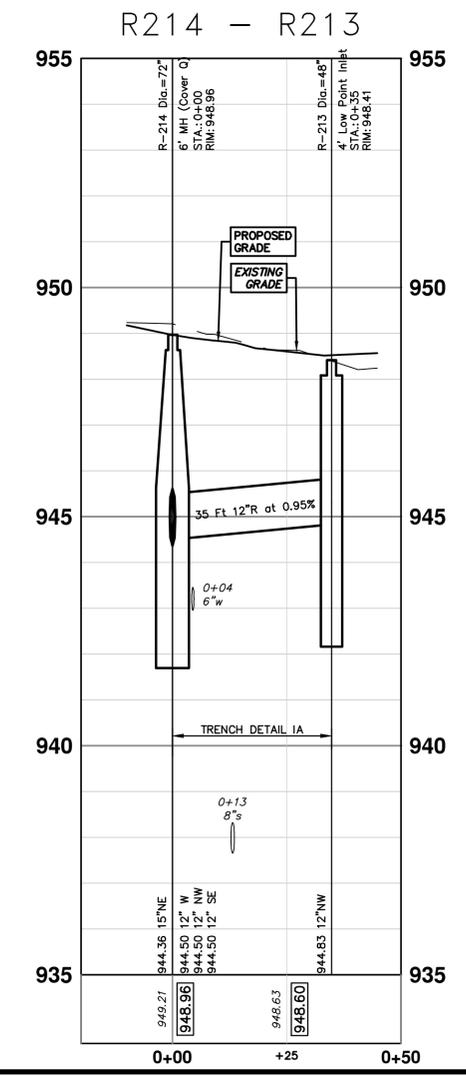
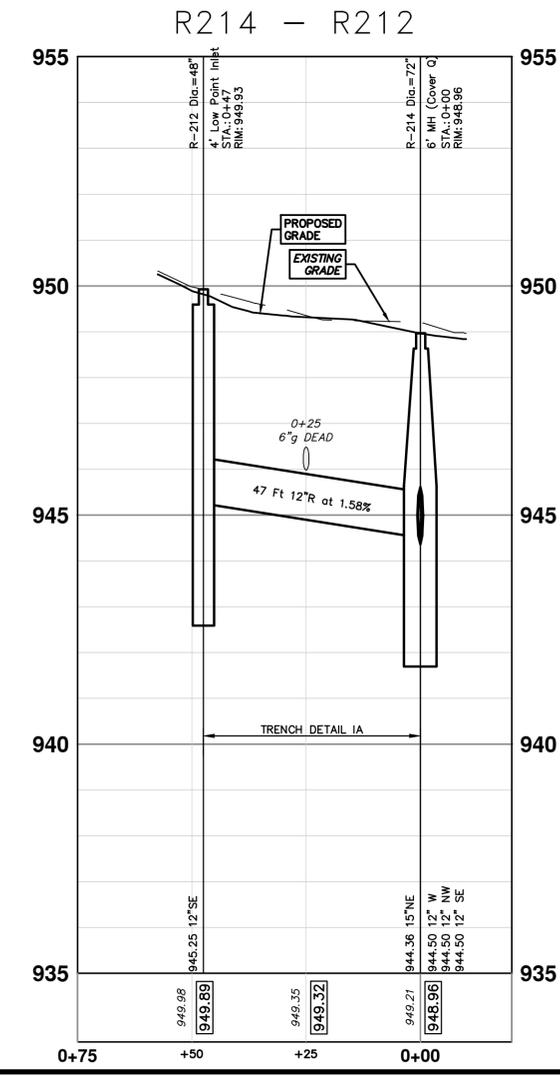
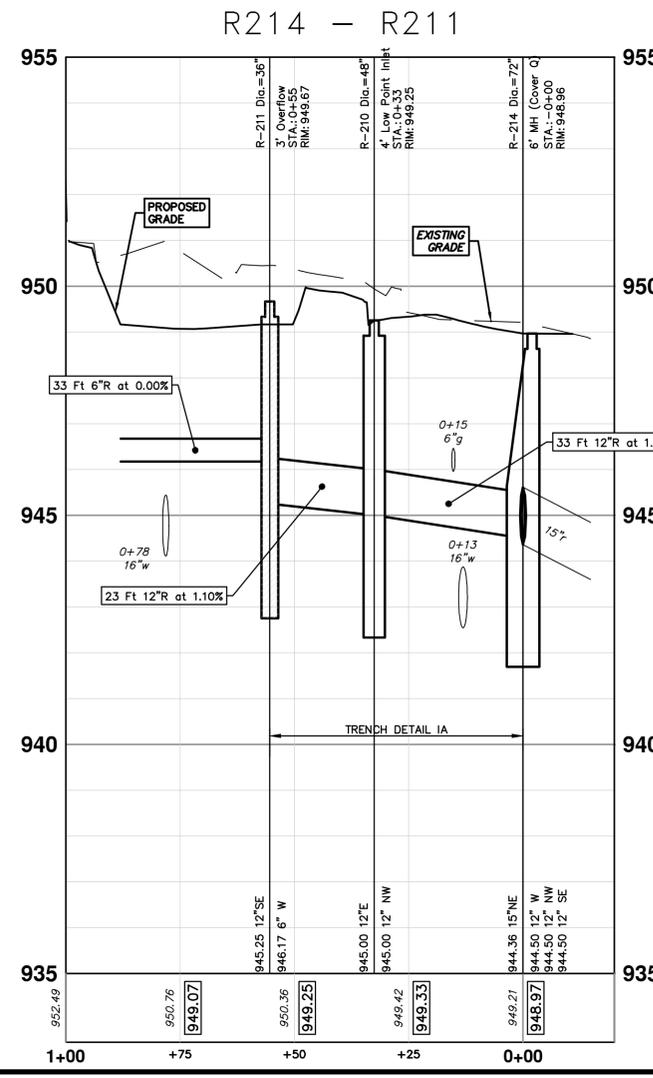
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PUBLIC SERVICES - ENGINEERING
BROOKS STREET IMPROVEMENTS
STORM SEWER
R200, R201, R202, R203, R204, R206, R207, R208

SHEET No. 33 OF 57
SCALE PLAN: #####
PROFILE: 1" = 2'
DRAWING No. 2021016-33

R:\2021016 Brooks Street\Plan Production\2021016Sirm.dwg Dwg Created: 9-Mar-23 - _a2_standard bw.sib - Plot Date: 13-Mar-23



STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-210	0+33	4' Low Point Inlet	949.25	12" NW 945.00 12" E 945.00	6.25	2'
R-211	0+55	3' Overflow	949.67	6" W 946.17 12" SE 945.25	6.42	2'
R-212	0+47	4' Low Point Inlet	949.93	12" SE 945.25	6.68	2'
R-213	0+35	4' Low Point Inlet	948.41	12" NW 944.83	5.58	2'
R-214	0+00	6' MH (Cover Q)	948.96	12" W 944.50 12" NW 944.50 12" SE 944.50 15" NE 944.36	6.60	2'



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

BROOKS STREET IMPROVEMENTS

STORM SEWER

R210, R211, R212, R213, R214

SHEET No. **34 OF 57**

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

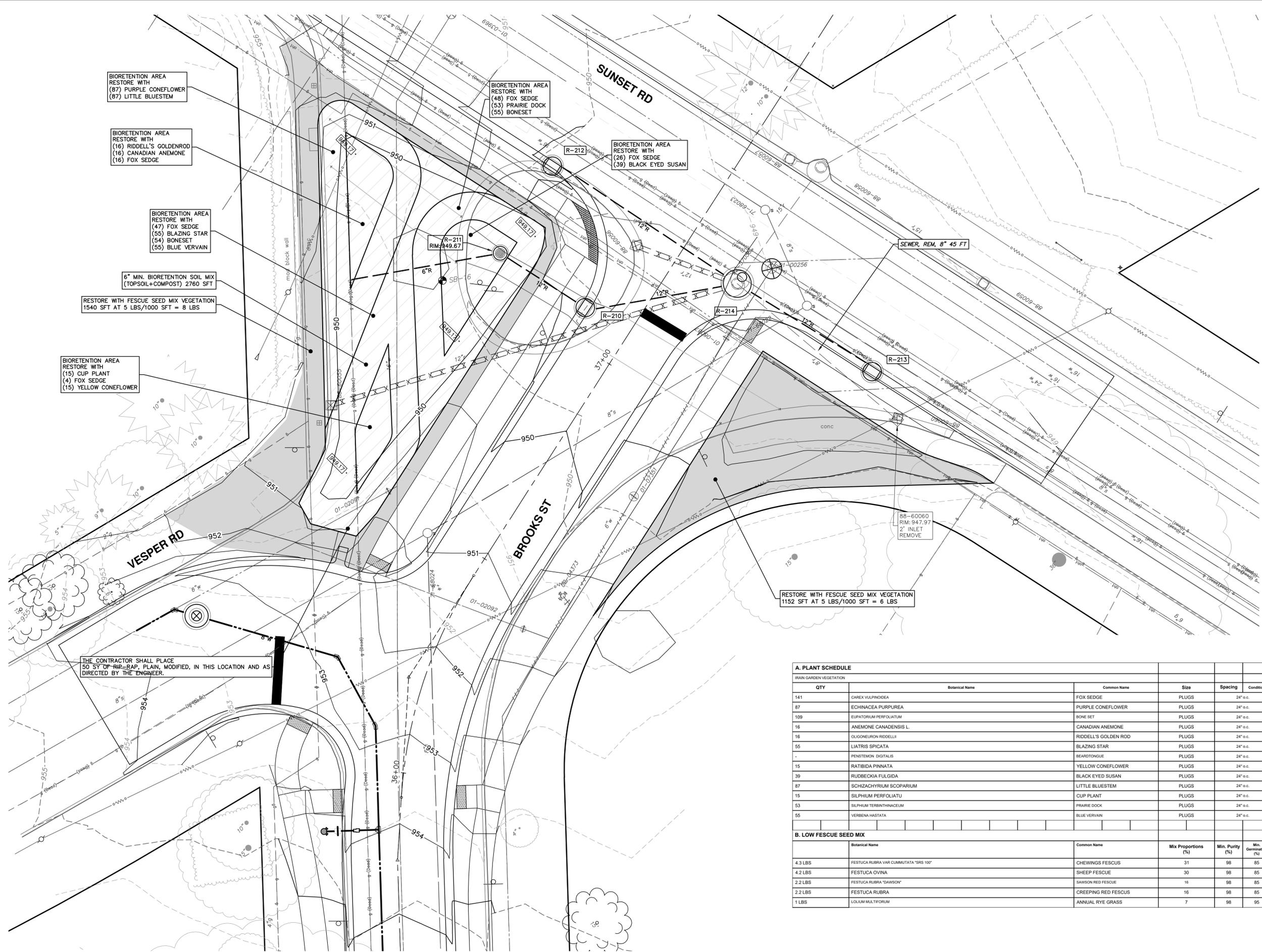
DRAWING No. **2021016-34**

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A. PLANT SCHEDULE
RAIN GARDEN VEGETATION

QTY	Botanical Name	Common Name	Size	Spacing	Condition
141	CAREX VULPINOIDEA	FOX SEDGE	PLUGS	24" o.c.	
87	ECHINACEA PURPUREA	PURPLE CONEFLOWER	PLUGS	24" o.c.	
109	EUPATORIUM PERFORIATUM	BONE SET	PLUGS	24" o.c.	
16	ANEMONE CANADENSIS L.	CANADIAN ANEMONE	PLUGS	24" o.c.	
16	OLIGONEURON RIDDELLII	RIDDELL'S GOLDEN ROD	PLUGS	24" o.c.	
55	LIATRIS SPICATA	BLAZING STAR	PLUGS	24" o.c.	
-	PENSTEMON DIGITALIS	BEARDTONGUE	PLUGS	24" o.c.	
15	RATIBIDA PINNATA	YELLOW CONEFLOWER	PLUGS	24" o.c.	
39	RUDBECKIA FULGIDA	BLACK EYED SUSAN	PLUGS	24" o.c.	
87	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	PLUGS	24" o.c.	
15	SILPHIUM PERFORIATU	CUP PLANT	PLUGS	24" o.c.	
53	SILPHIUM TERBINTHACEUM	PRAIRIE DOCK	PLUGS	24" o.c.	
55	VERBENA HABITATA	BLUE VERVAIN	PLUGS	24" o.c.	

B. LOW FESCUE SEED MIX

Botanical Name	Common Name	Mix Proportions (%)	Min. Purity (%)	Min. Germination (%)
4.3 LBS FESTUCA RUBRA VAR CUMMULATA "SRS 100"	CHEWINGS FESCUS	31	98	85
4.2 LBS FESTUCA OVINA	SHEEP FESCUE	30	98	85
2.2 LBS FESTUCA RUBRA "DAWSON"	SAWSON RED FESCUE	16	98	85
2.2 LBS FESTUCA RUBRA	CREEPING RED FESCUS	16	98	85
1 LBS LOLIUM MULTIFLORUM	ANNUAL RYE GRASS	7	98	95

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BROOKS STREET IMPROVEMENTS

RAIN GARDEN VEGETATION AND SEED MIX PLAN

SCALE PLAN: 1" = 10'

DRAWING NO. 2021016-35

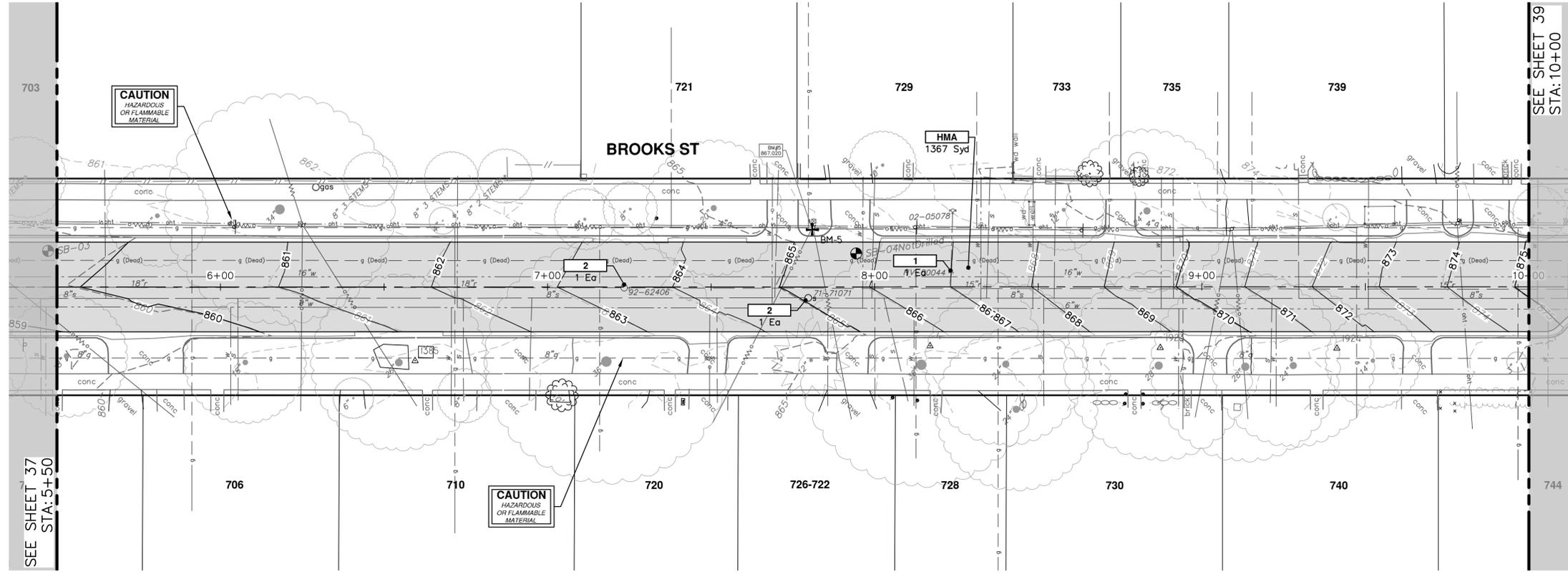
SHEET No. 35 OF 57



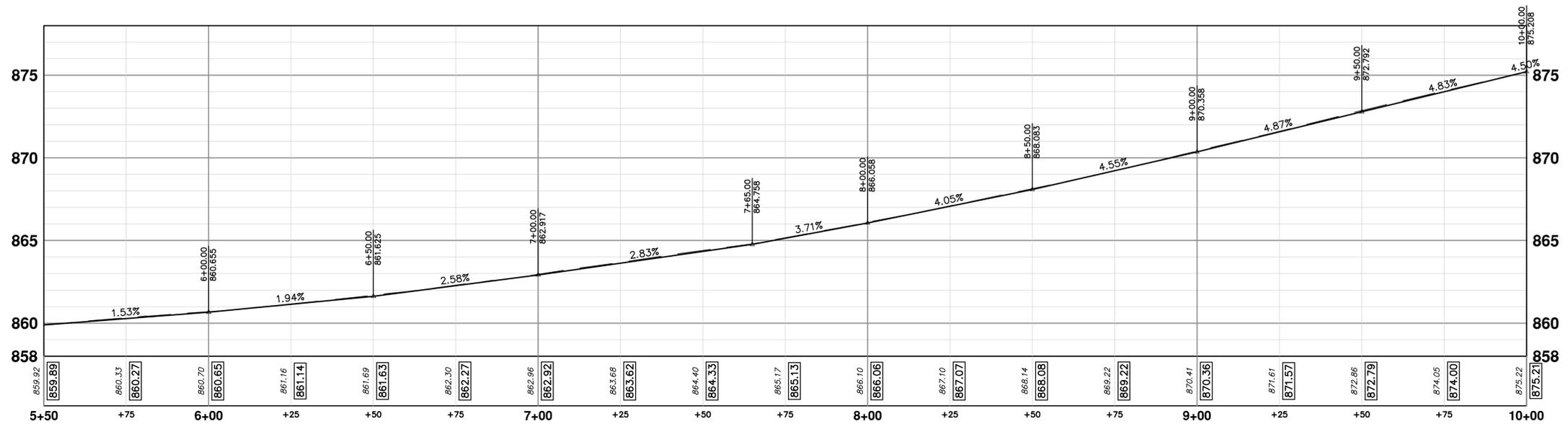
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CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, LVSP. PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	PLACE HMA APPROACH
HP	HAND PATCHING
CG	PLACE CURB AND GUTTER, CONC, F4, SPECIAL
DO-M	PLACE DRIVEWAY OPENING, CONC, DETAIL M, P-NC
DC-6	PLACE CONC. DRIVE APPROACH, NON-REINFORCED, P-NC, 6 INCH. PLACE AND COMPACT 6 INCH SUBBASE, CIP, CLASS II GRANULAR MATERIAL, MODIFIED.
SW-4	PLACE SIDEWALK, CONC, 4 INCH, MODIFIED
ABO	ADJUST BY OTHERS
1	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
2	ADJUST STRUCTURE COVER



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

BROOKS STREET IMPROVEMENTS

PROPOSED ROAD - BROOKS STREET

STA. 5+50 - STA. 10+00

SHEET No. **38 OF 57**

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

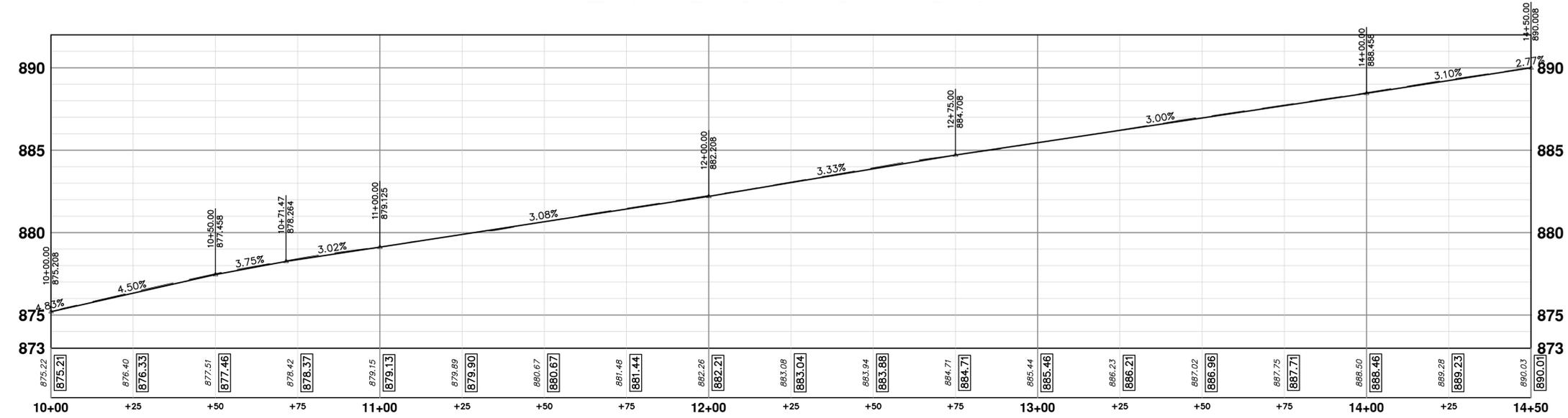
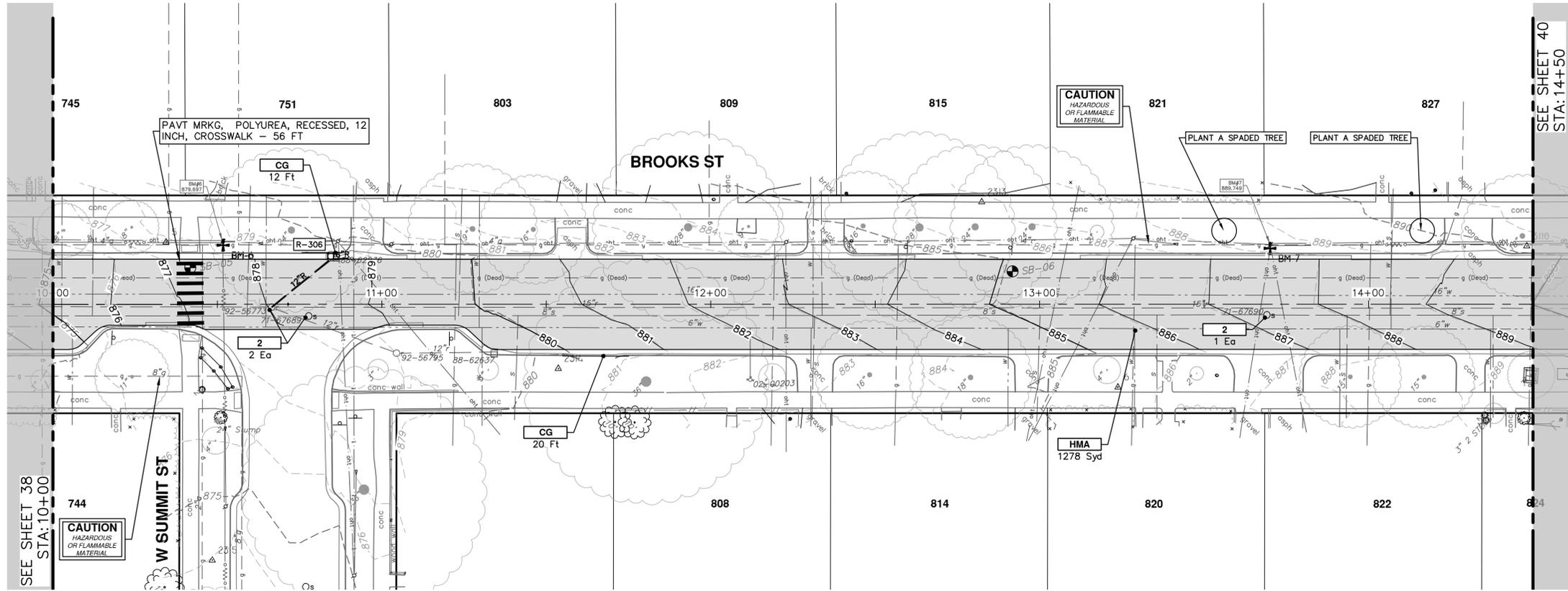
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CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, LVSP, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	PLACE HMA APPROACH
HP	HAND PATCHING
CG	PLACE CURB AND GUTTER, CONC, F4, SPECIAL
DO-M	PLACE DRIVEWAY OPENING, CONC, DETAIL M, P-NC
DC-6	PLACE CONC, DRIVE APPROACH, NON-REINFORCED, P-NC, 6 INCH. PLACE AND COMPACT 6 INCH SUBBASE, CIP, CLASS II GRANULAR MATERIAL, MODIFIED.
SW-4	PLACE SIDEWALK, CONC, 4 INCH, MODIFIED
ABO	ADJUST BY OTHERS
1	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
2	ADJUST STRUCTURE COVER

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

BROOKS STREET IMPROVEMENTS

PROPOSED ROAD - BROOKS STREET

STA. 10+00 - STA. 14+50

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

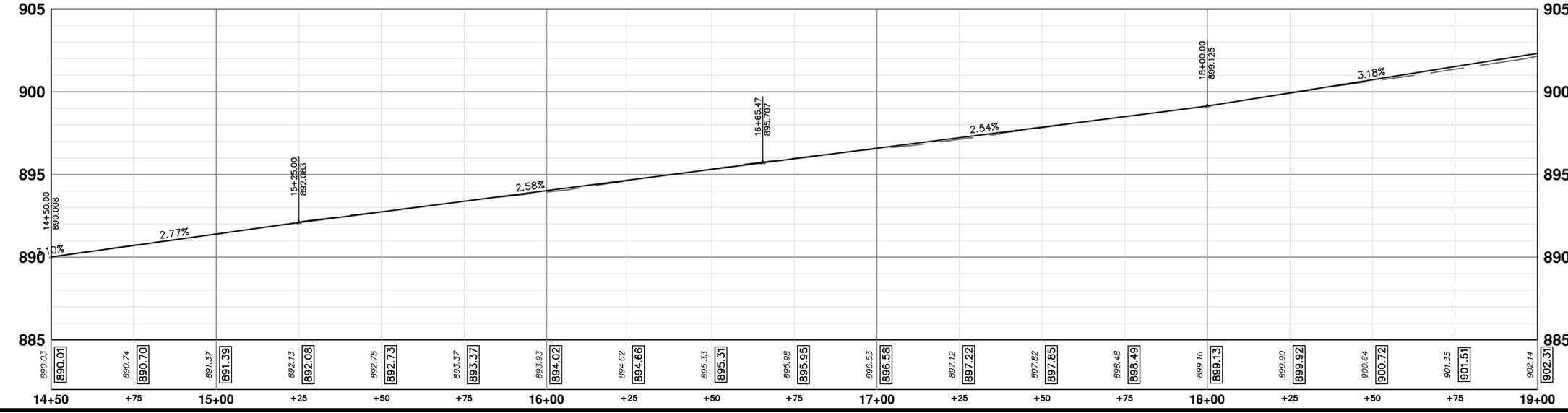
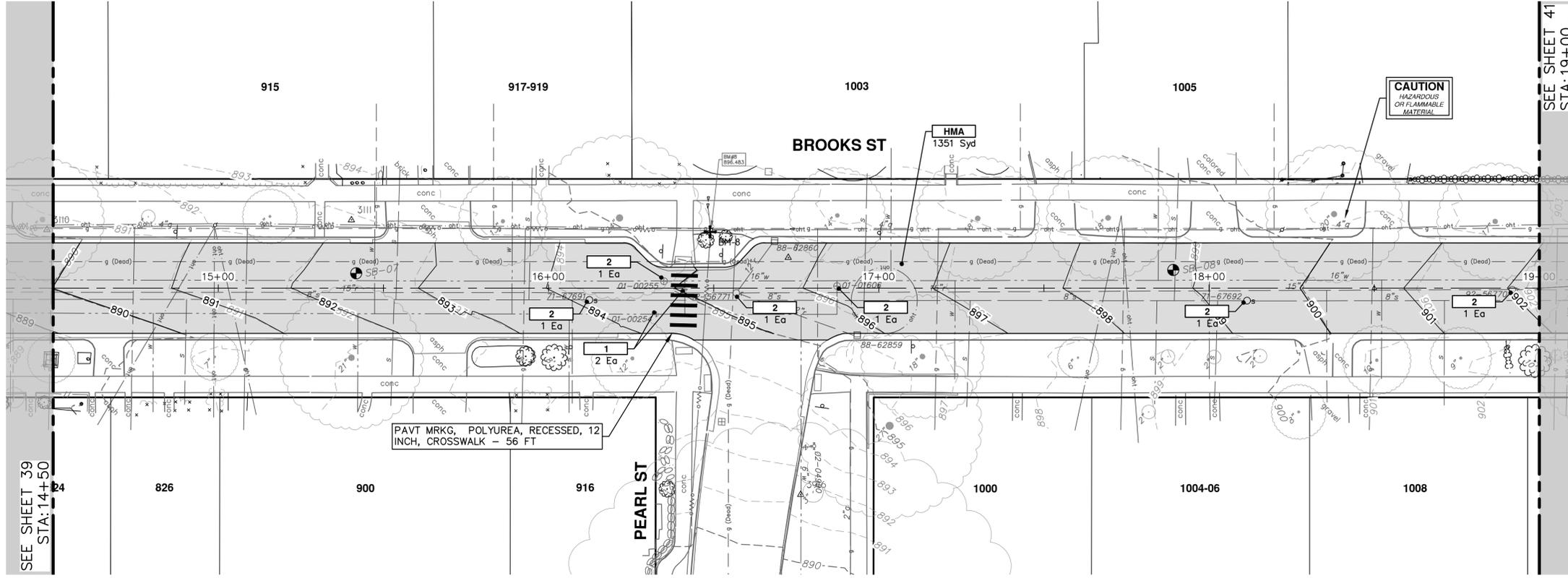
DRAWING No. **2021016-39**

SHEET No. **39 OF 57**



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT TO BID	3-13-23	CC/DF/KS	TB



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, LVSP. PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	PLACE HMA APPROACH
HP	HAND PATCHING
CG	PLACE CURB AND GUTTER, CONC, F4, SPECIAL
DO-M	PLACE DRIVEWAY OPENING, CONC, DETAIL M, P-NC
DC-6	PLACE CONC, DRIVE APPROACH, NON-REINFORCED, P-NC, 6 INCH. PLACE AND COMPACT 6 INCH SUBBASE, CIP, CLASS II GRANULAR MATERIAL, MODIFIED.
SW-4	PLACE SIDEWALK, CONC, 4 INCH, MODIFIED
ABO	ADJUST BY OTHERS
1	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
2	ADJUST STRUCTURE COVER



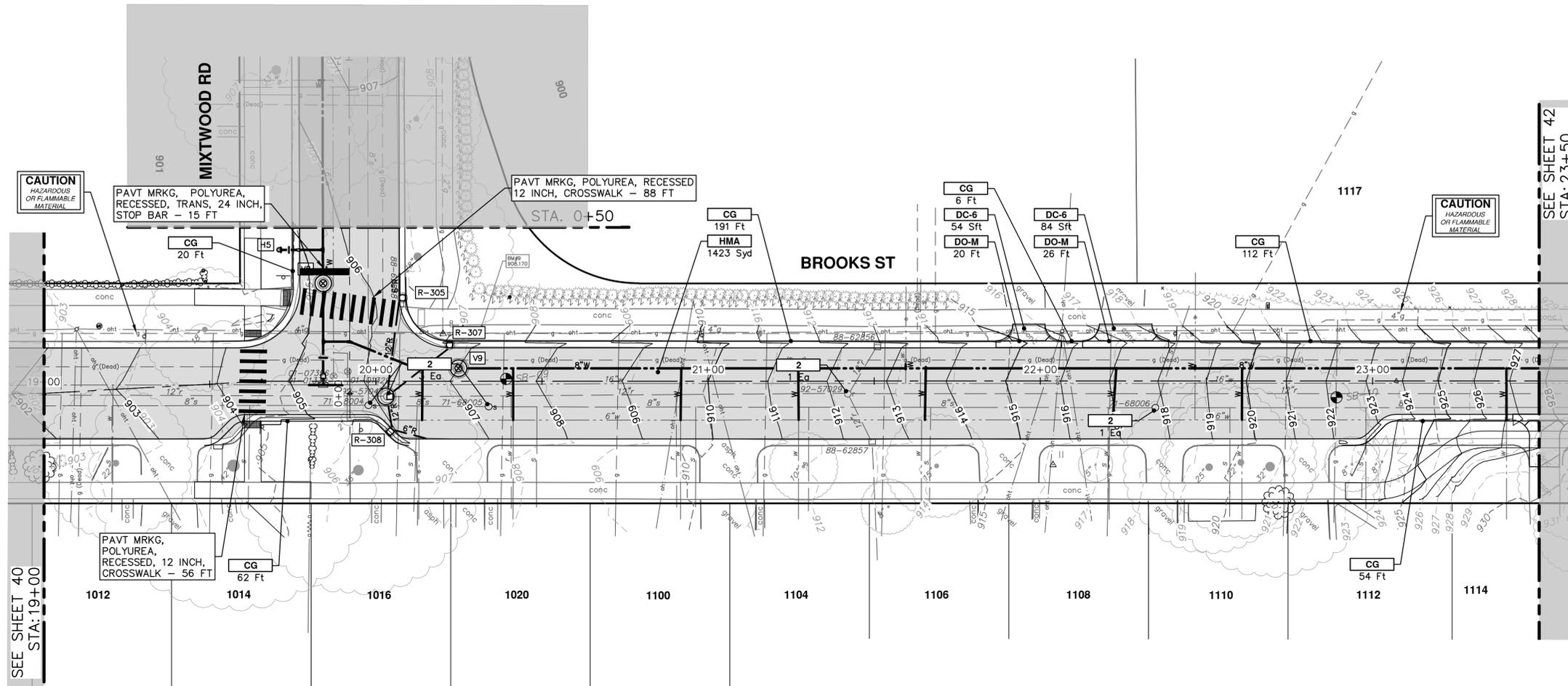
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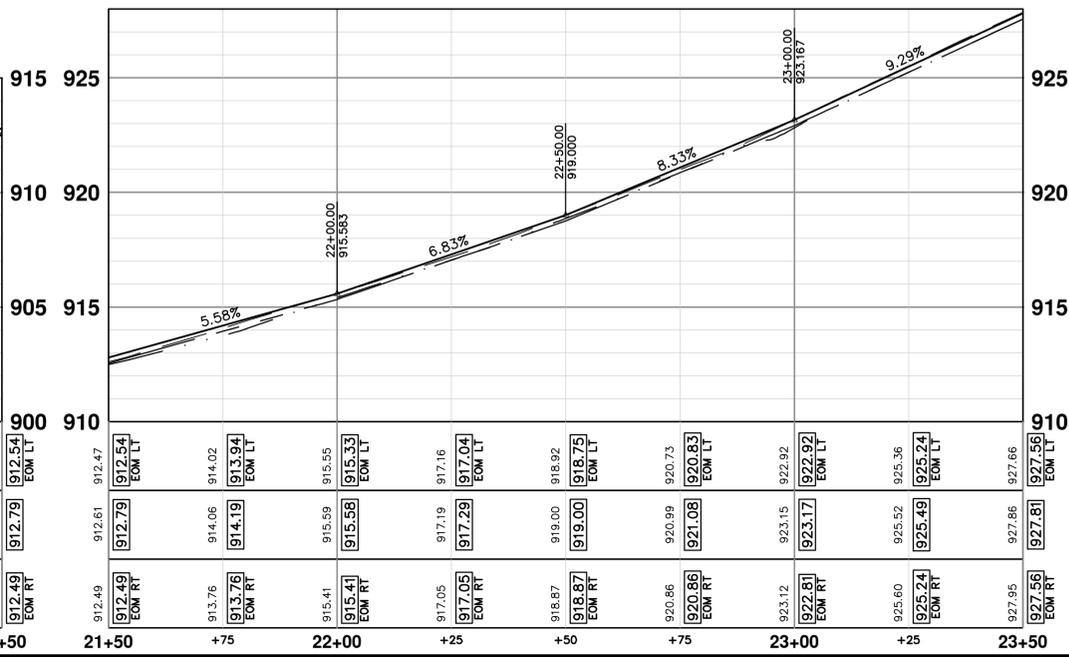
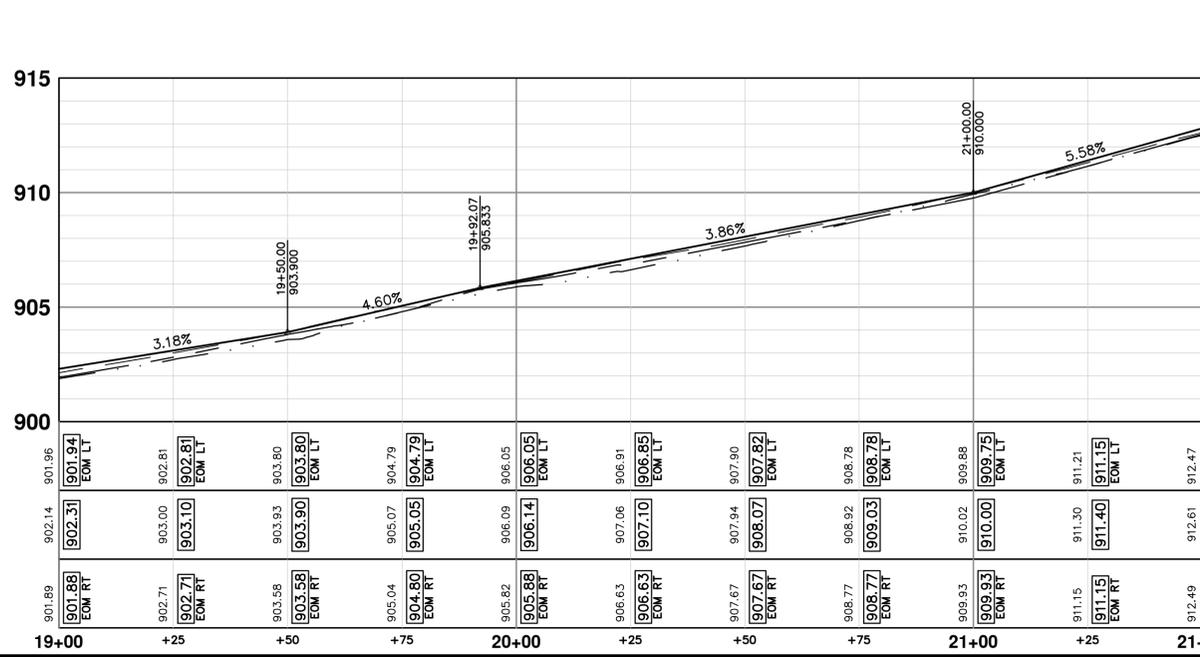
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BROOKS STREET IMPROVEMENTS
PROPOSED ROAD - BROOKS STREET

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING No. 2021016-40

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT TO BID	3-13-23	CC/DF/KB	TB



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, LVSP. PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	PLACE HMA APPROACH
HP	HAND PATCHING
CG	PLACE CURB AND GUTTER, CONC. F4, SPECIAL
DO-M	PLACE DRIVEWAY OPENING, CONC. DETAIL M, P-NC
DC-6	PLACE CONC. DRIVE APPROACH, NON-REINFORCED, P-NC, 6 INCH. PLACE AND COMPACT 6 INCH SUBBASE, CIP, CLASS II GRANULAR MATERIAL, MODIFIED.
SW-4	PLACE SIDEWALK, CONC. 4 INCH, MODIFIED
ABO	ADJUST BY OTHERS
1	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
2	ADJUST STRUCTURE COVER



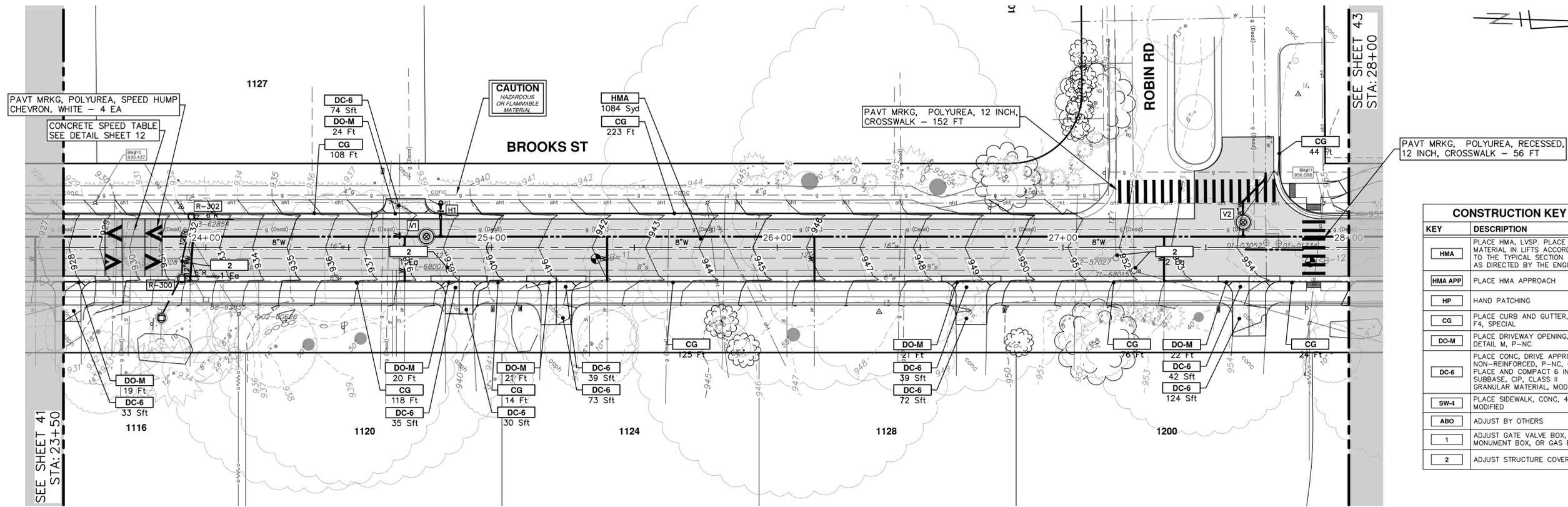
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT TO BID	3-13-23	CC/DF/KG	TB

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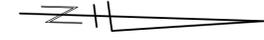
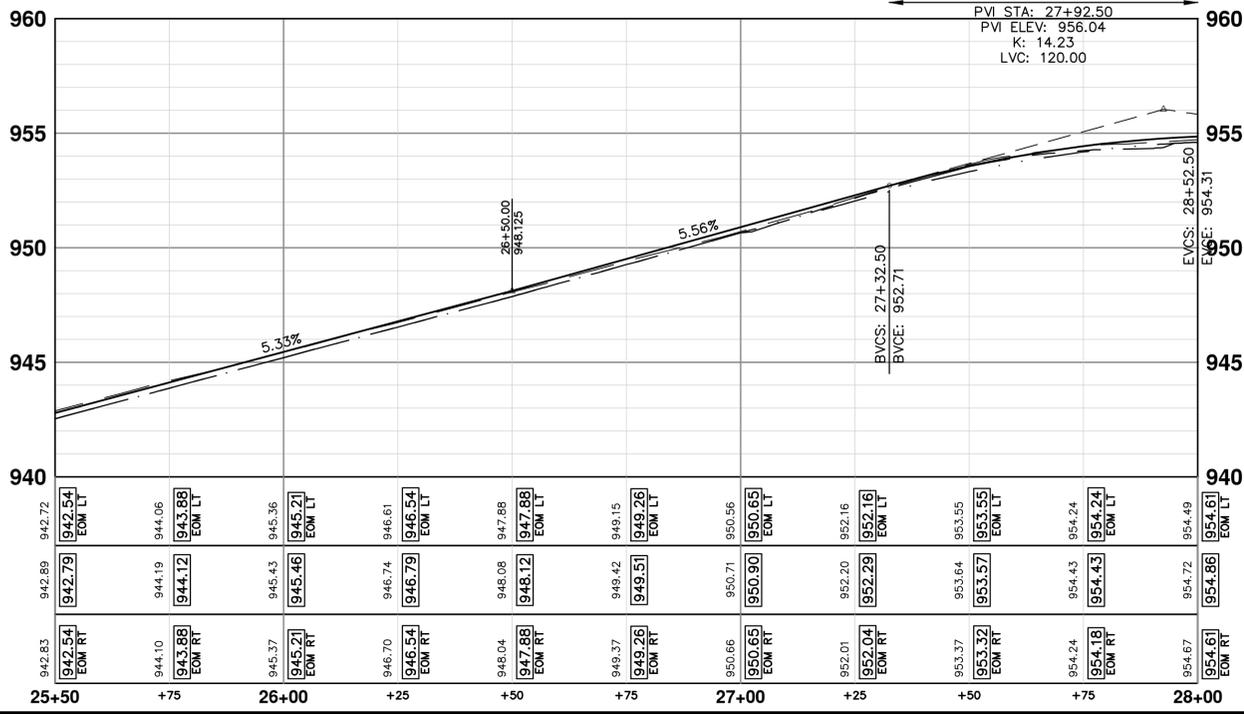
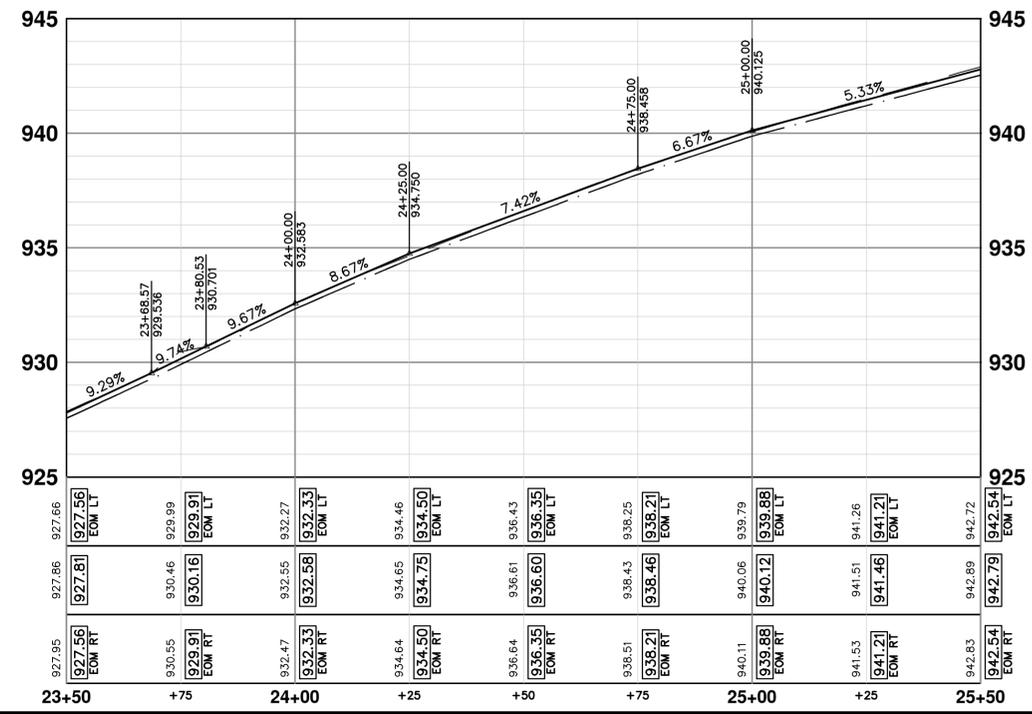


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BROOKS STREET IMPROVEMENTS
PROPOSED ROAD - BROOKS STREET

SHEET No. 41 OF 57
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING No. 2021016-41



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, LVSP. PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	PLACE HMA APPROACH
HP	HAND PATCHING
CG	PLACE CURB AND GUTTER, CONC, F4, SPECIAL
DO-M	PLACE DRIVEWAY OPENING, CONC, DETAIL M, P-NC
DC-6	PLACE CONC. DRIVE APPROACH, NON-REINFORCED, P-NC, 6 INCH. PLACE AND COMPACT 6 INCH SUBBASE, CIP, CLASS II GRANULAR MATERIAL, MODIFIED.
SW-4	PLACE SIDEWALK, CONC, 4 INCH, MODIFIED
ABO	ADJUST BY OTHERS
1	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
2	ADJUST STRUCTURE COVER



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BROOKS STREET IMPROVEMENTS

PROPOSED ROAD - BROOKS STREET

STA. 23+50 - STA. 28+00

SHEET No. **42 OF 57**

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

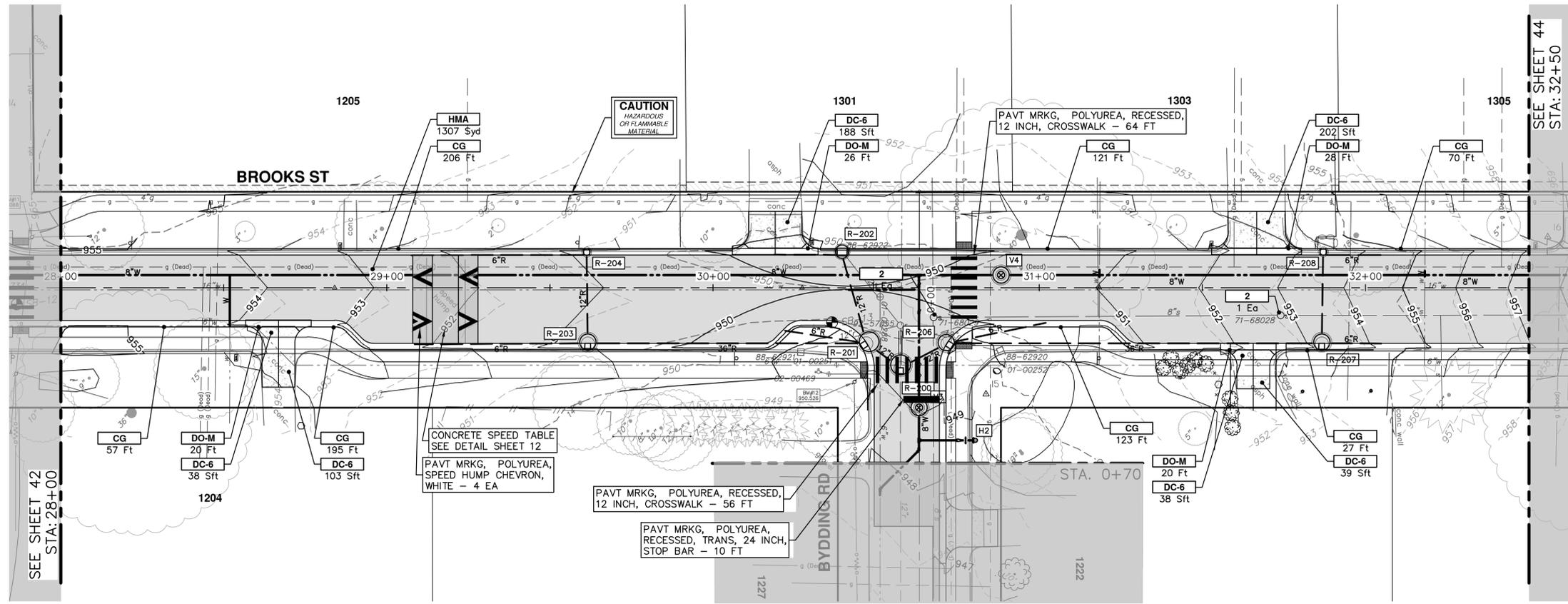
DRAWING No. **2021016-42**

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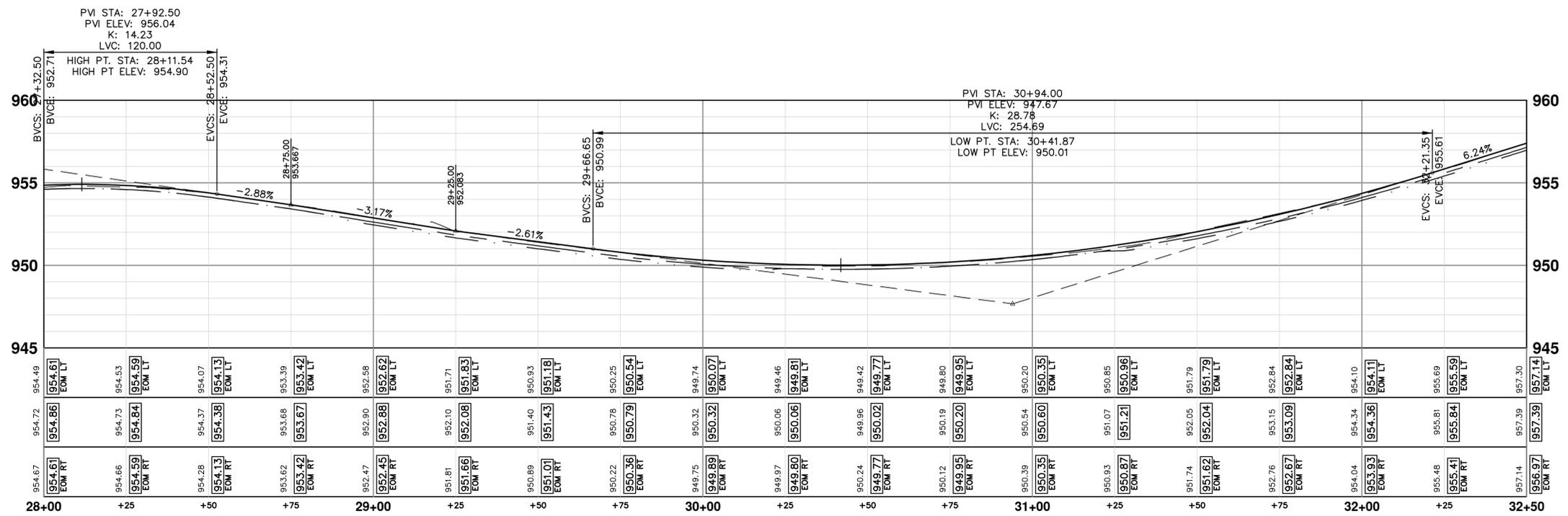
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CONSTRUCTION KEY	
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HMA	PLACE HMA, LVSP. PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	PLACE HMA APPROACH
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CG	PLACE CURB AND GUTTER, CONC, F4, SPECIAL
DO-M	PLACE DRIVEWAY OPENING, CONC, DETAIL M, P-NC
DC-6	PLACE CONC. DRIVE APPROACH, NON-REINFORCED, P-NC, 6 INCH. PLACE AND COMPACT 6 INCH SUBBASE, CP, CLASS II GRANULAR MATERIAL, MODIFIED.
SW-4	PLACE SIDEWALK, CONC, 4 INCH, MODIFIED
ABO	ADJUST BY OTHERS
1	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
2	ADJUST STRUCTURE COVER



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BROOKS STREET IMPROVEMENTS

PROPOSED ROAD - BROOKS STREET

STA. 28+00 - STA. 32+50

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00	OUT TO BID	3-13-23	CC/DF/RB	TB

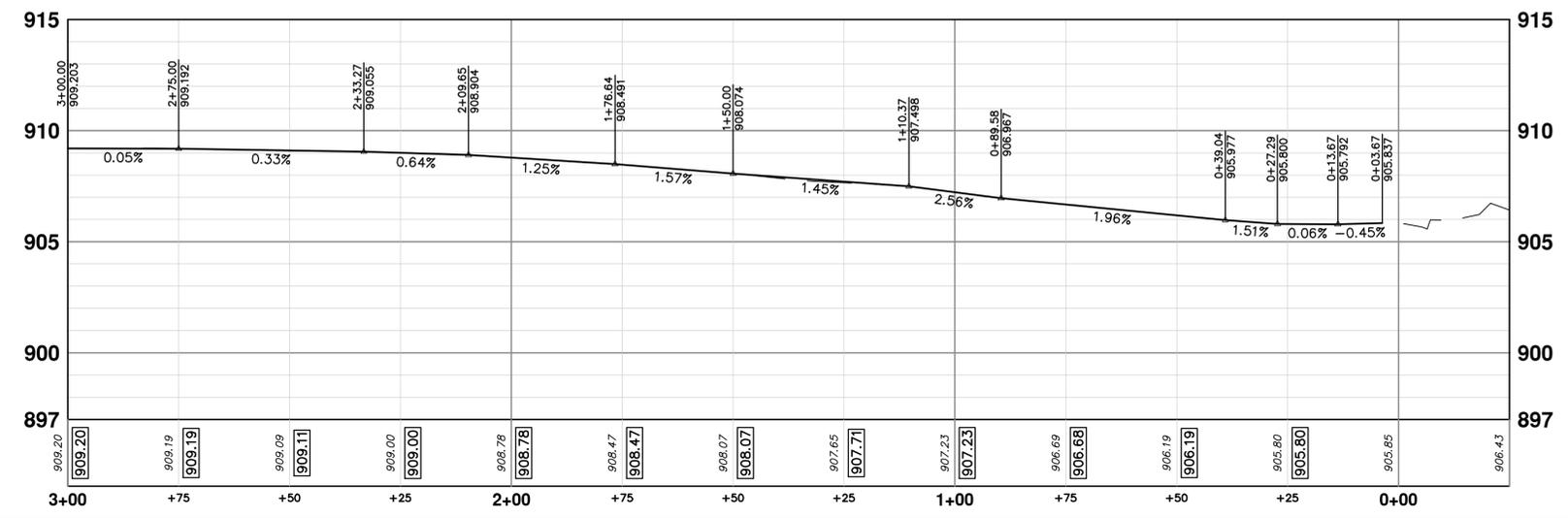
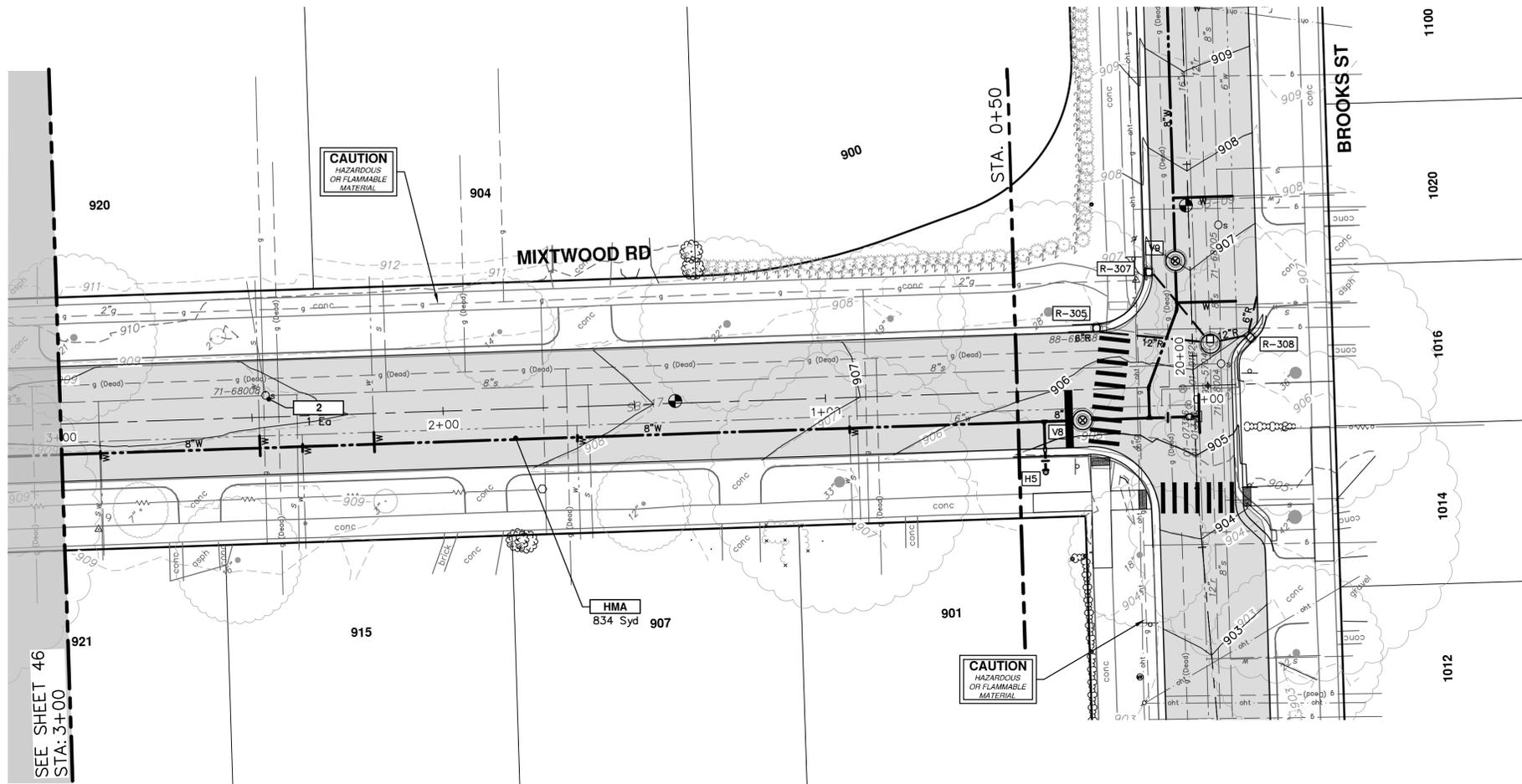
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SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING NO. 2021016-43

SHEET NO. 43 OF 57



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, LVSP. PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
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HP	HAND PATCHING
CG	PLACE CURB AND GUTTER, CONC, F4, SPECIAL
DO-M	PLACE DRIVEWAY OPENING, CONC, DETAIL M, P-NC
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SW-4	PLACE SIDEWALK, CONC, 4 INCH, MODIFIED
ABO	ADJUST BY OTHERS
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2	ADJUST STRUCTURE COVER

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

BROOKS STREET IMPROVEMENTS

PROPOSED ROAD - MIXTWOOD

STA. 0+00 - STA. 3+00

811
Know what's below.
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SHEET No. **45 OF 57**

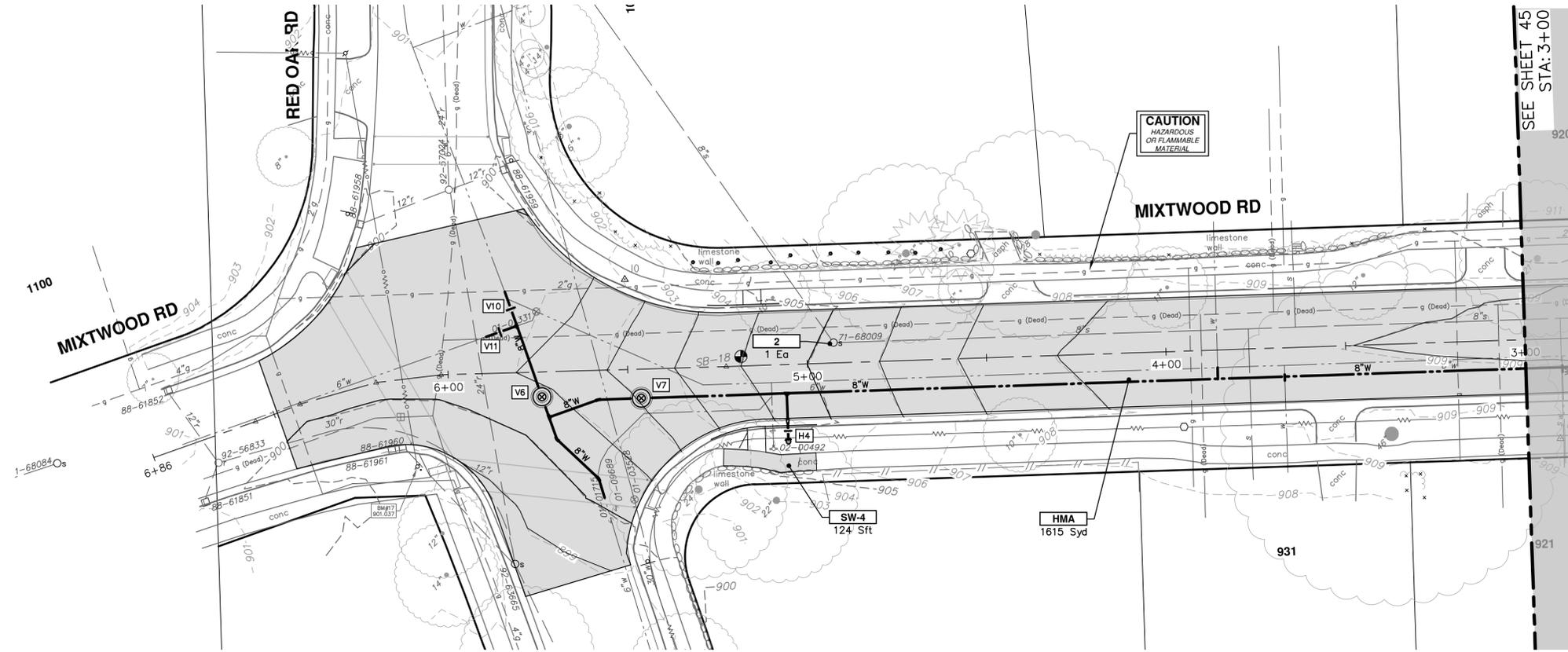
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PROFILE: 1" = 4'

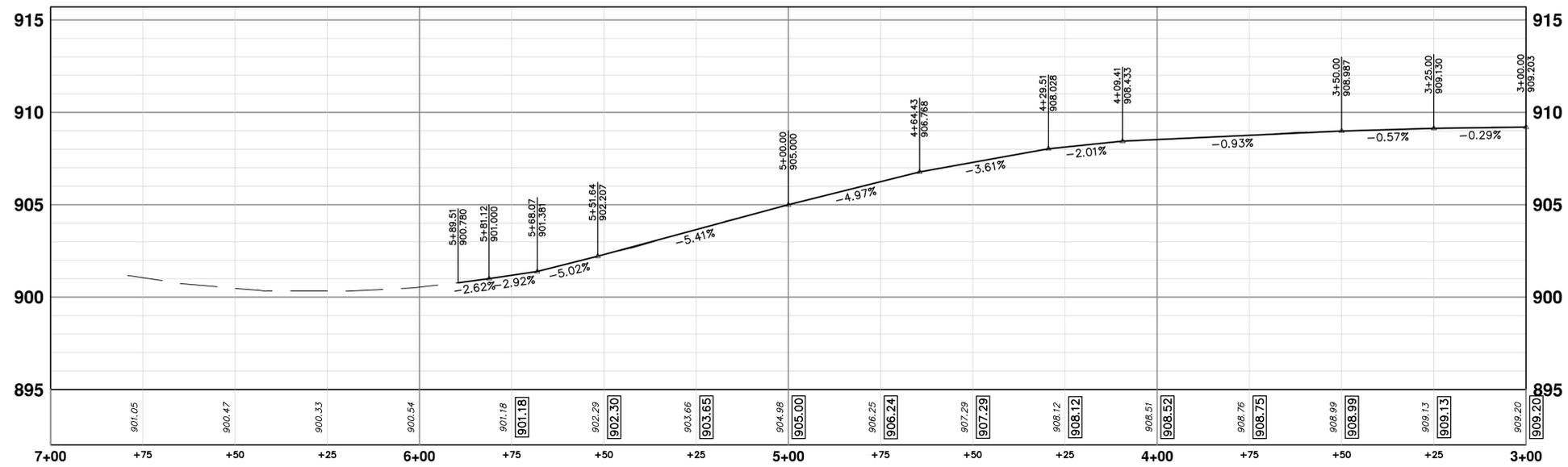
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		DRAWN
		CHECKED



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, LVSP. PLACE MATERIAL IN LISTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
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SW-4	PLACE SIDEWALK, CONC, 4 INCH, MODIFIED
ABO	ADJUST BY OTHERS
1	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
2	ADJUST STRUCTURE COVER



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

BROOKS STREET IMPROVEMENTS

PROPOSED ROAD - MIXTWOOD

STA. 3+00 - STA. 7+25

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

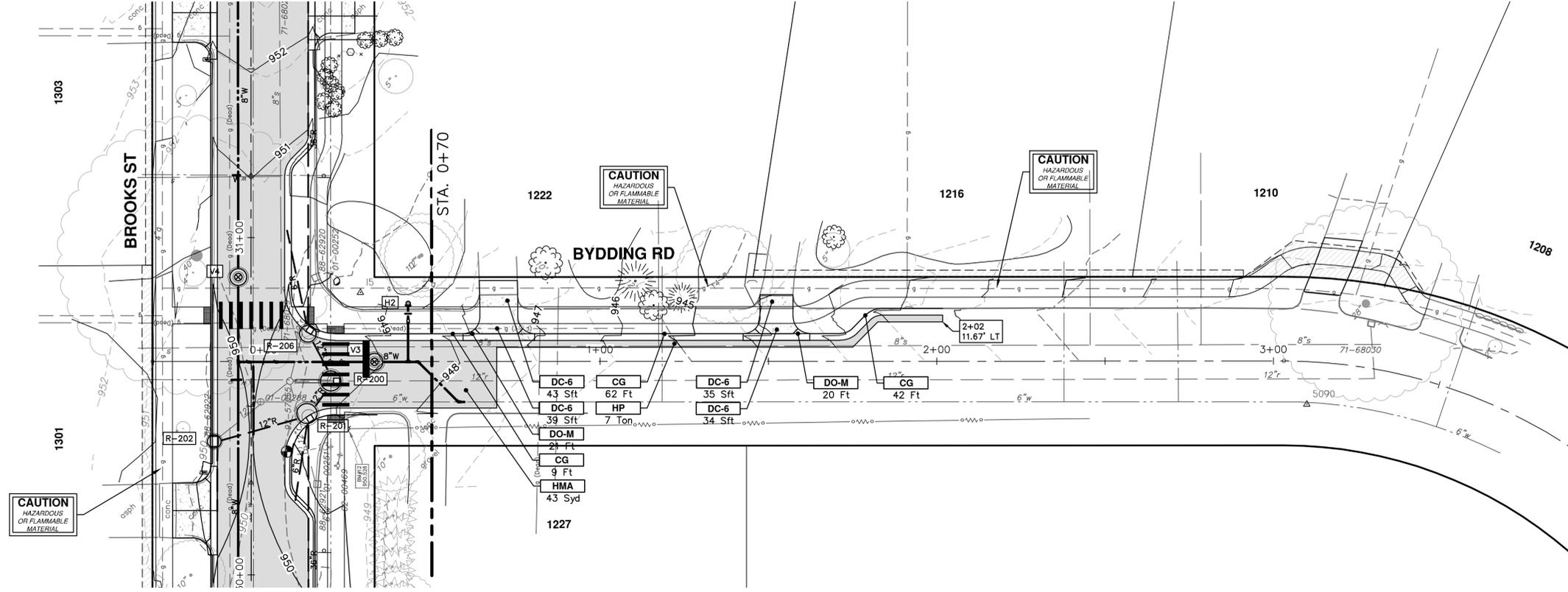
DRAWING No. **2021016-46**

SHEET No. **46 OF 57**

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REV.	00	OUT TO BID	CHECKED
DESCRIPTION	DRAWN		

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CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, LVSP. PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	PLACE HMA APPROACH
HP	HAND PATCHING
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SW-4	PLACE SIDEWALK, CONC, 4 INCH, MODIFIED
ABO	ADJUST BY OTHERS
1	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
2	ADJUST STRUCTURE COVER



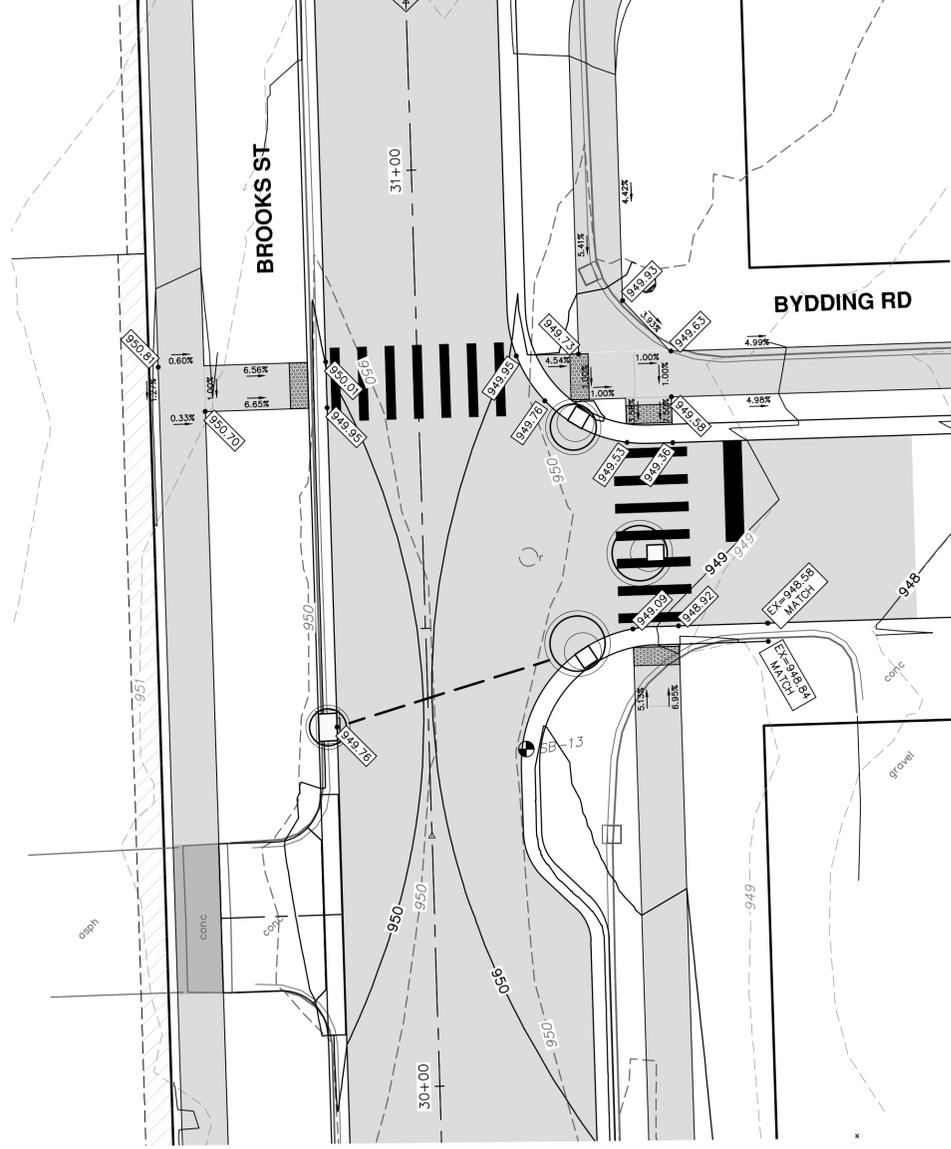
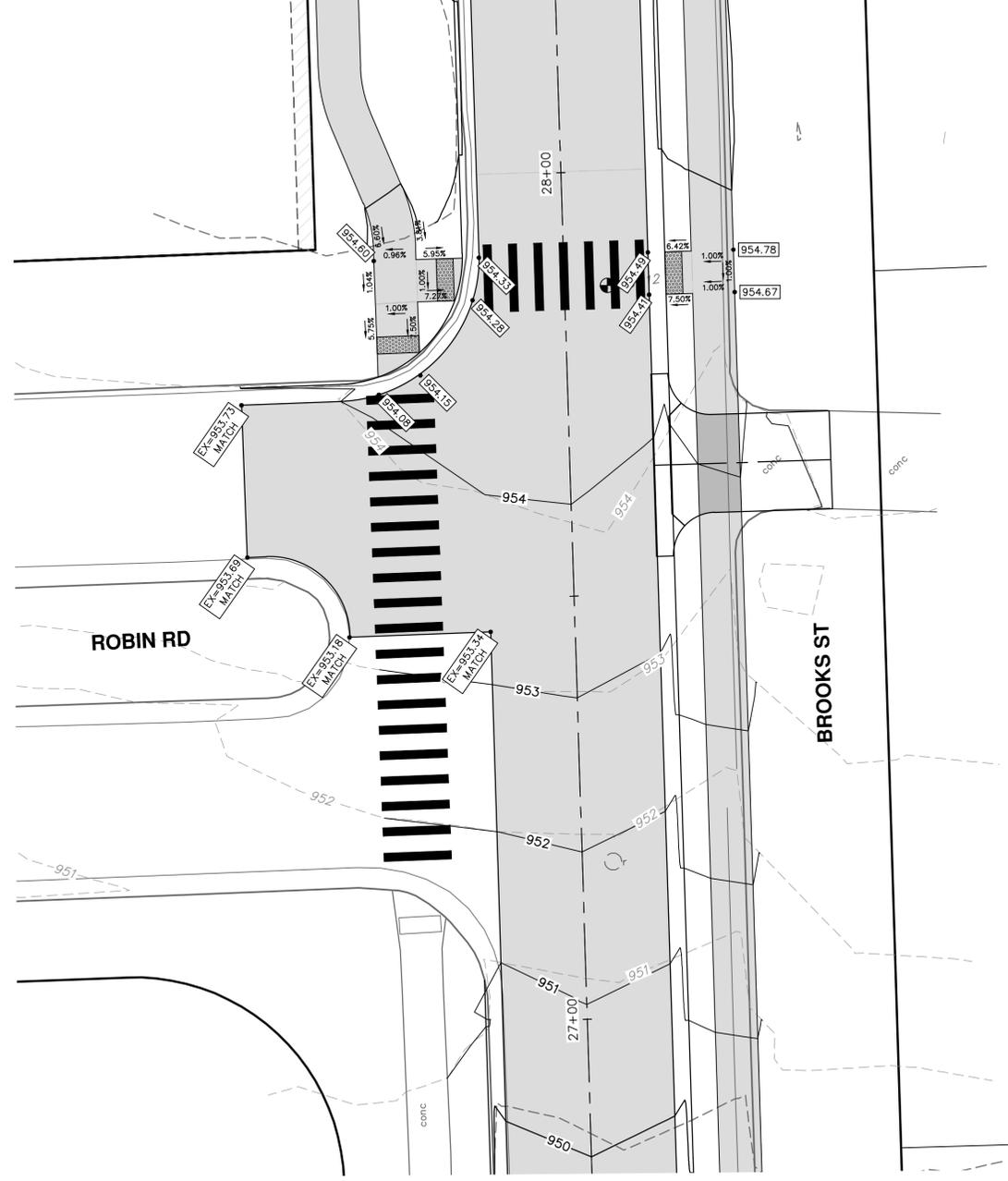
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BROOKS STREET IMPROVEMENTS
PROPOSED ROAD - BYDDING RD
STA. 0+00 - STA. 2+02

SCALE PLAN: 1" = 20'
DRAWING No. 2021016-47

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT TO BID	3-13-23	CC/DF/KG	TB



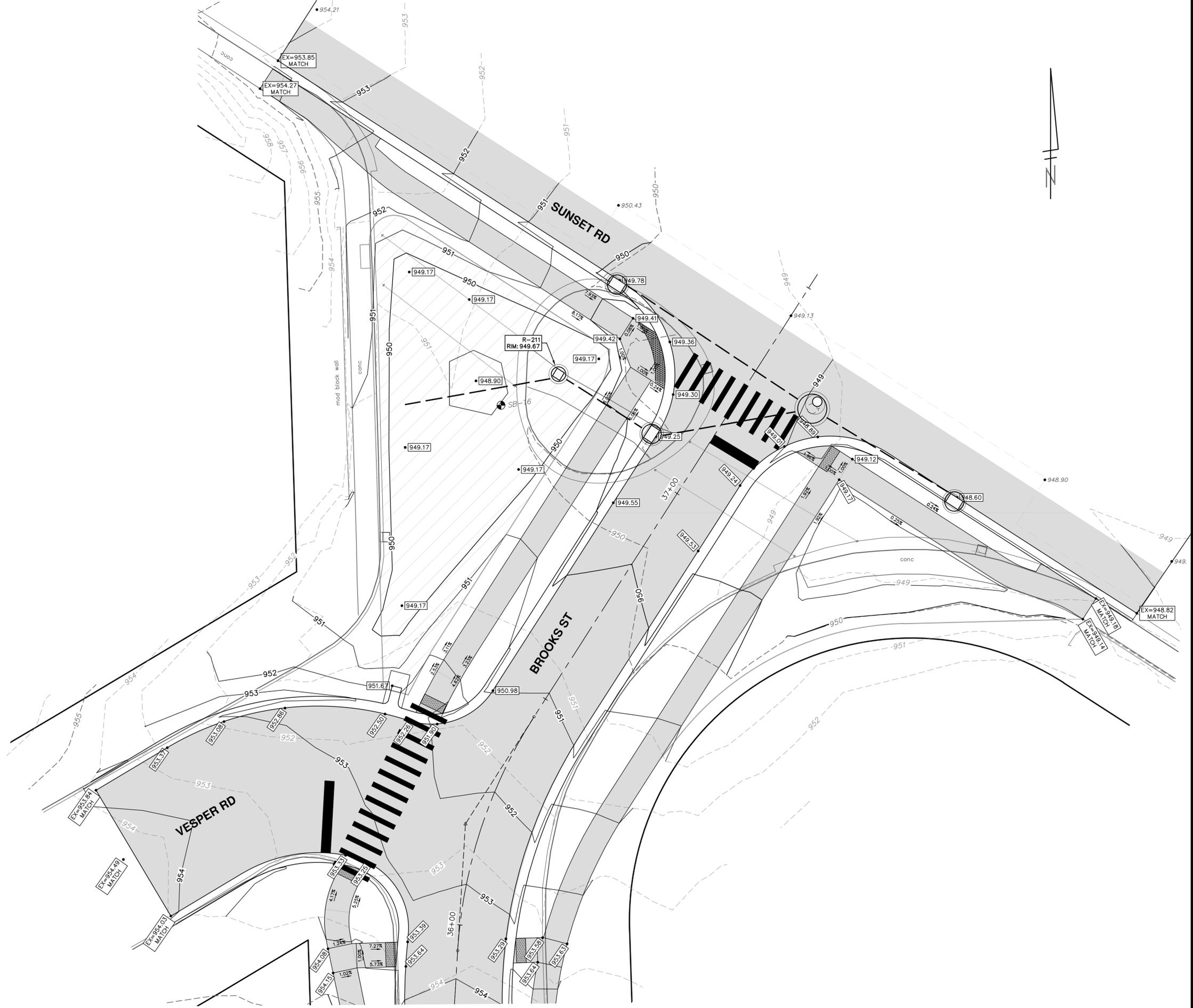
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REV.	DESCRIPTION
00	OUT TO BID

DATE	CC/DF/AG	TB	CHECKED
3-13-23			



R:\2021016 Brooks Street\Plan Production\2021016 int.dwg Dwg Created: 6-Mar-23 - _a2 standard bw.stb - Plot Date: 13-Mar-23



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 SCALE PLAN: 1" = 10'
 DRAWING No. 2021016-49
 SHEET No. 49 OF 57

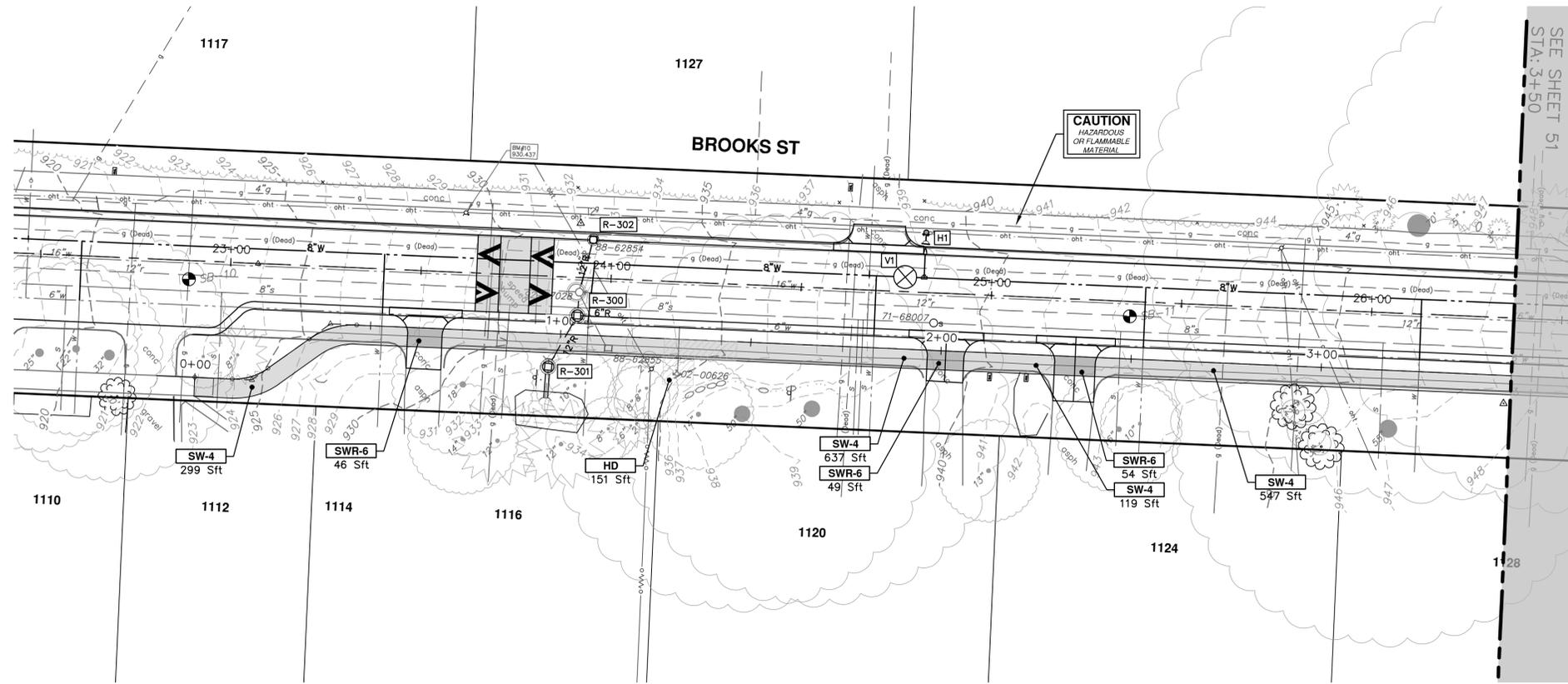


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 ANN ARBOR, MI 48106-6647
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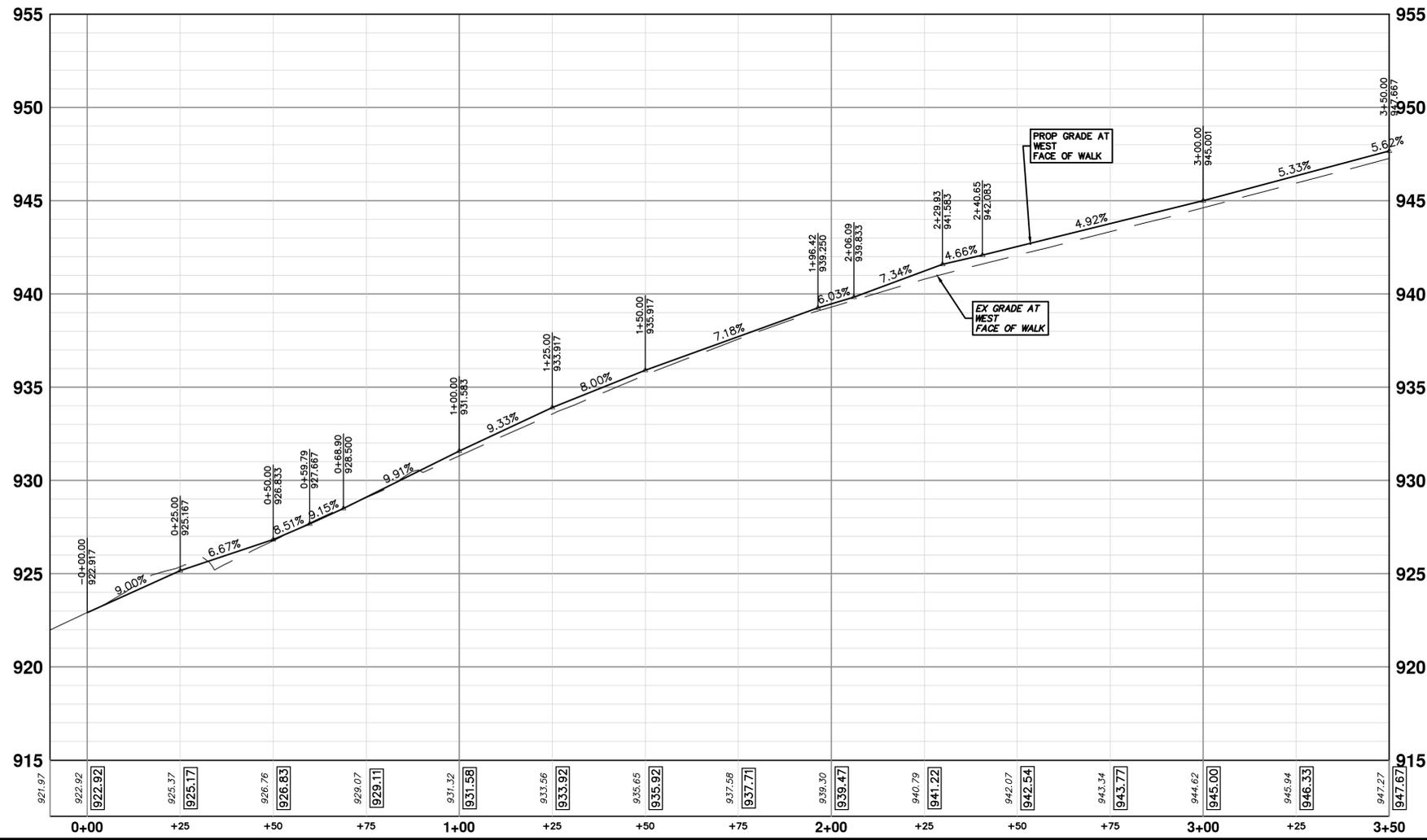
REV.	DESCRIPTION
00	OUT TO BID

DATE	DRAWN	CHECKED
3-13-23	CC/DF/KG	TB





SIDEWALK CONSTRUCTION KEY	
KEY	DESCRIPTION
SW-4	PLACE SIDEWALK, CONC. 4 INCH, MODIFIED
SWR-6	PLACE SIDEWALK, SIDEWALK RAMP, CONC. 6 INCH, MODIFIED
DWS	DETECTABLE WARNING, CAST IN PLACE
ISW-CB	INTEGRAL SIDEWALK/CURB
ABO	ADJUST BY OTHERS
HD	HAND DIG AND PRUNE ROOTS 1-1/2 INCHES OR GREATER
1	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
2	ADJUST STRUCTURE COVER



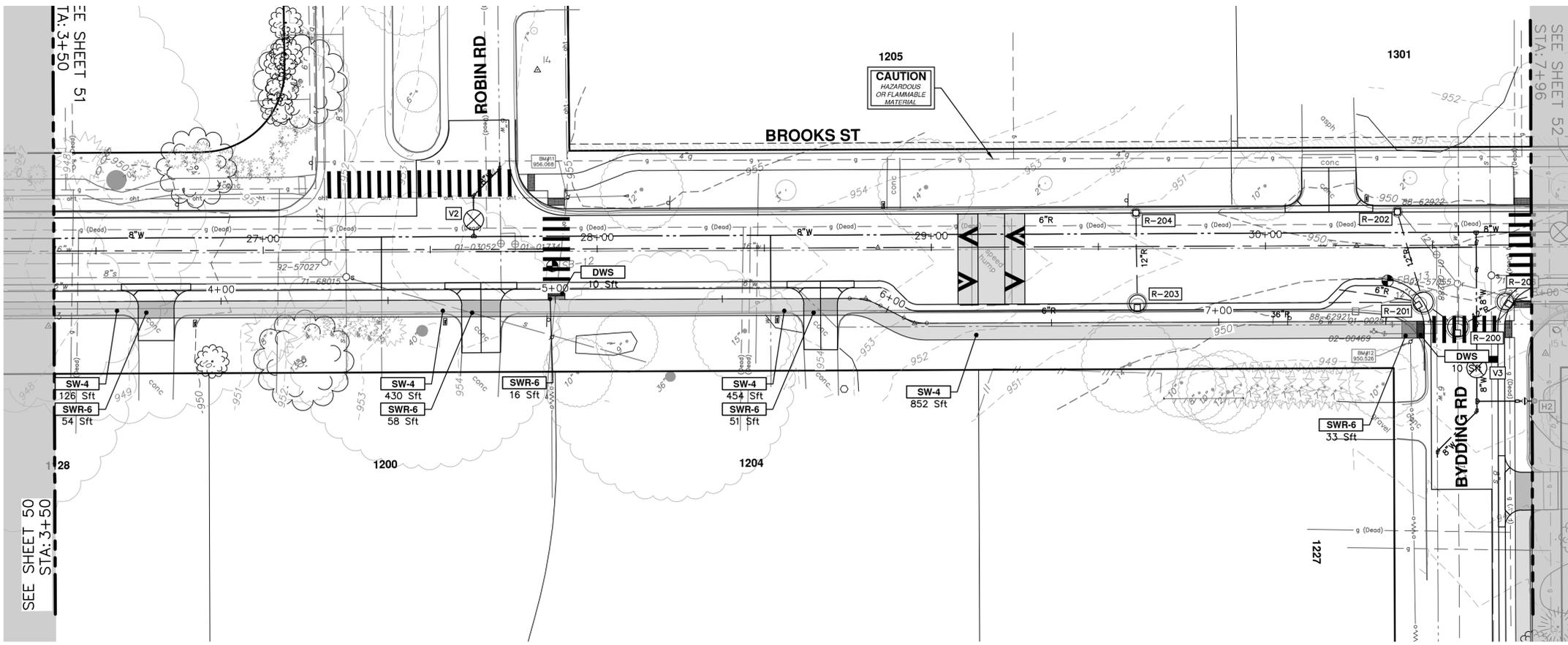
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT TO BID	3-13-23	CC/DF/KG	TB

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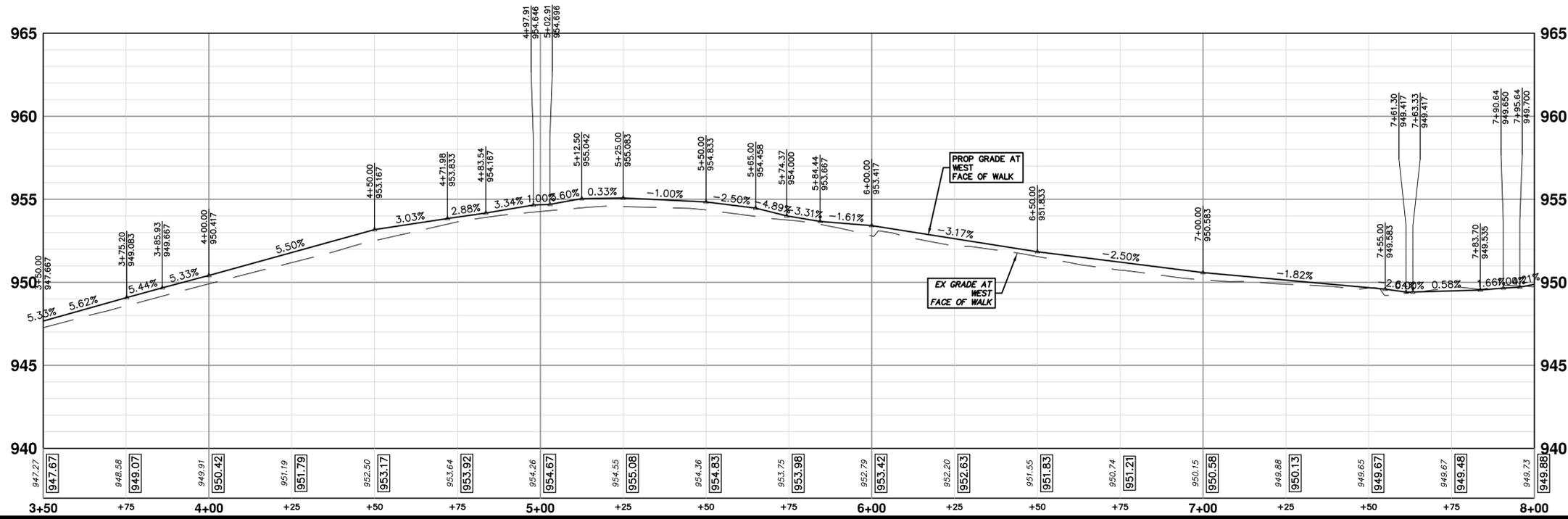
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROOKS STREET IMPROVEMENTS
BROOKS ST SIDEWALK RIGHT
STA. 0+00 - STA. 3+50

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING No. 2021016-50



SIDEWALK CONSTRUCTION KEY

KEY	DESCRIPTION
SW-4	PLACE SIDEWALK, CONC, 4 INCH, MODIFIED
SWR-6	PLACE SIDEWALK, SIDEWALK RAMP, CONC, 6 INCH, MODIFIED
DWS	DETECTABLE WARNING, CAST IN PLACE
ISW-CB	INTEGRAL SIDEWALK/CURB
ABO	ADJUST BY OTHERS
HD	HAND DIG AND PRUNE ROOTS 1-1/2 INCHES OR GREATER
1	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
2	ADJUST STRUCTURE COVER



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

BROOKS STREET IMPROVEMENTS

BROOKS ST SIDEWALK RIGHT

STA. 3+50 - STA. 8+00

SHEET No. 51 OF 57

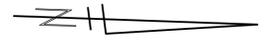
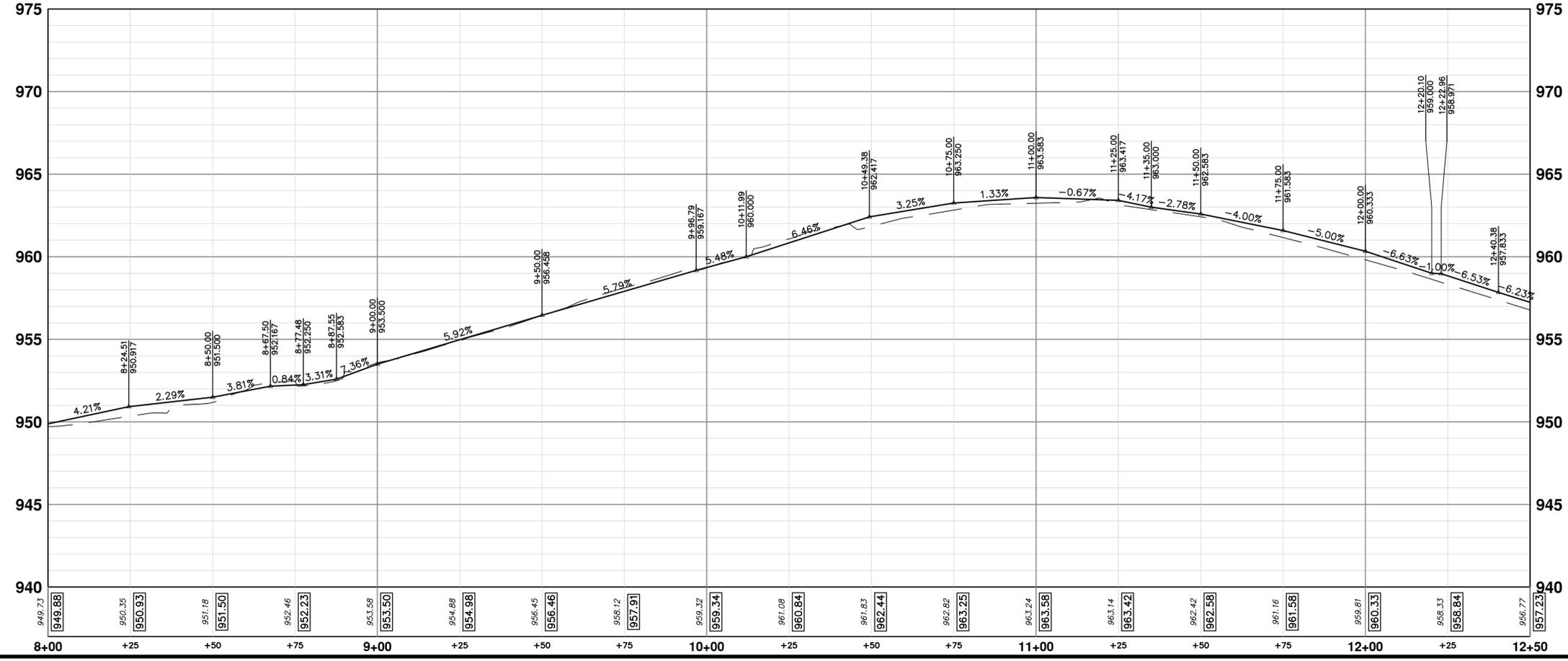
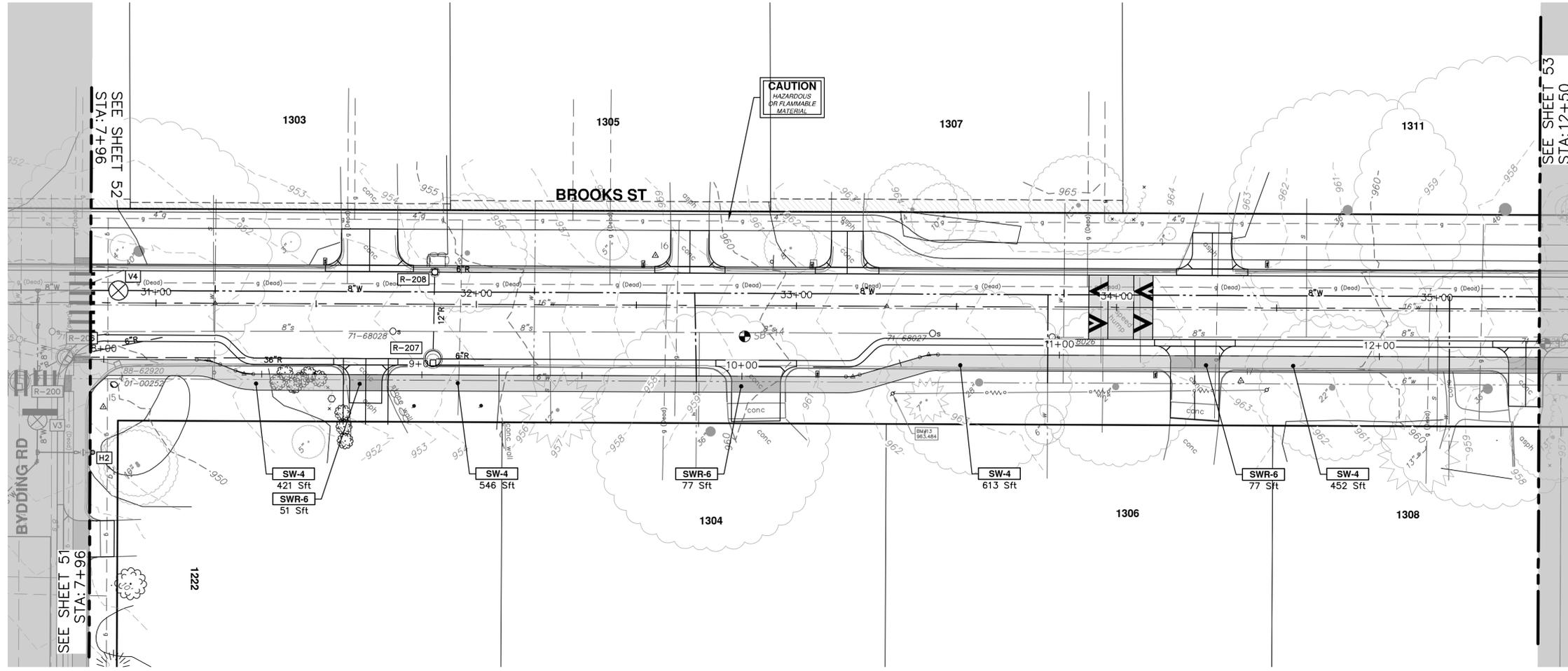
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING No. 2021016-51

811
Know what's below.
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REV. 00 OUT TO BID
DATE 3-13-23
DRAWN CC/DF/KS
CHECKED TB



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BROOKS STREET IMPROVEMENTS

BROOKS ST SIDEWALK RIGHT

STA. 8+00 - STA. 12+50

SHEET No. **52 OF 57**

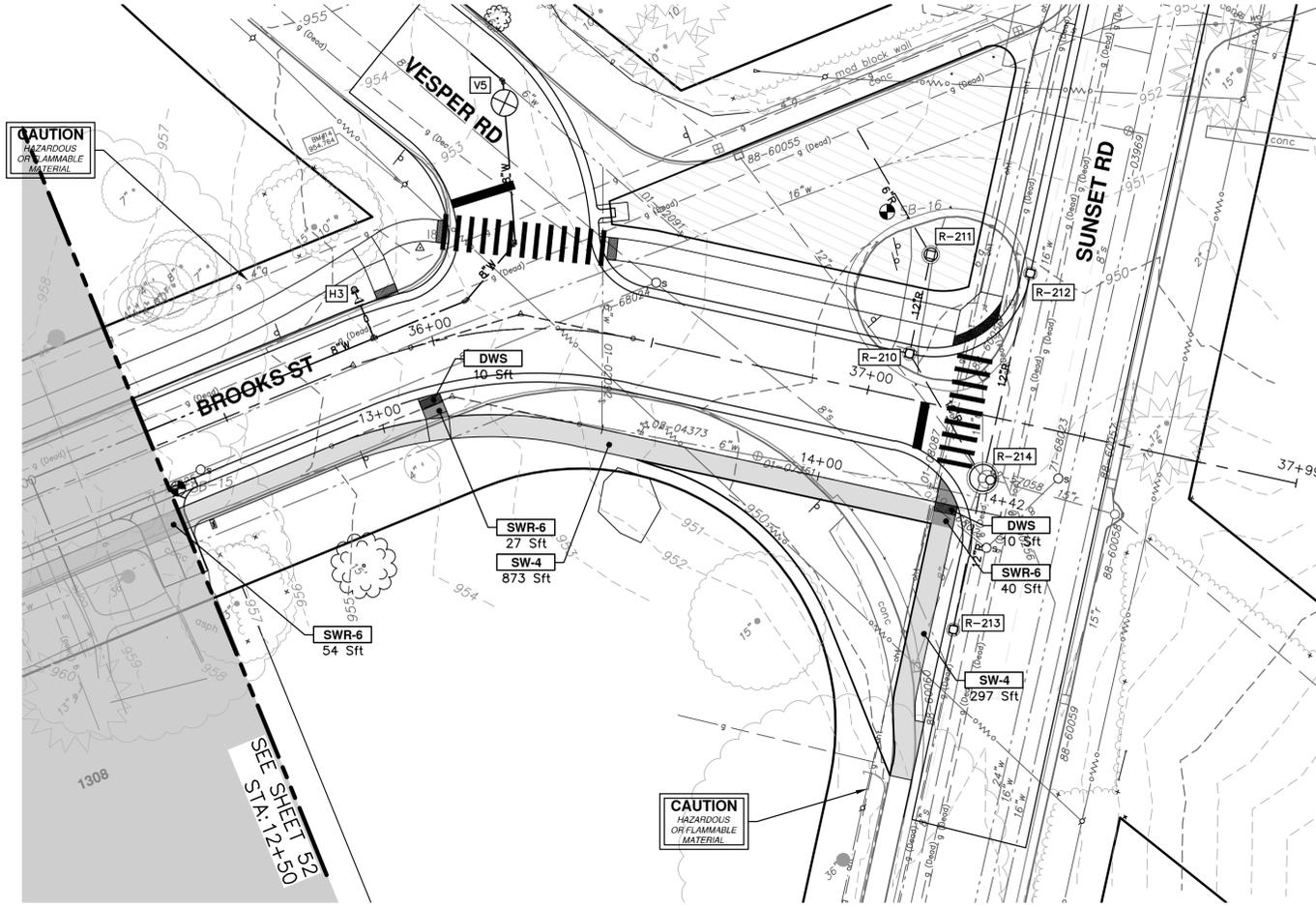
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PROFILE: 1" = 4'

DRAWING No. **2021016-52**

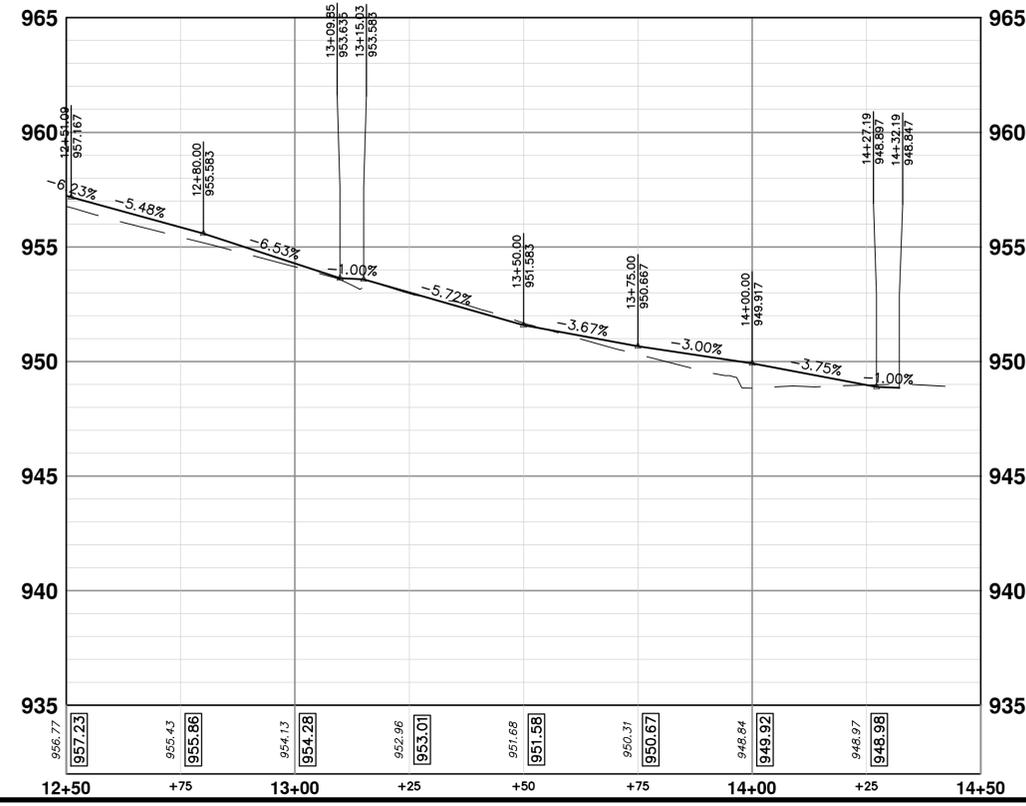
811
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT TO BID	3-13-23	CC/DF/KG	TB

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KEY	DESCRIPTION
SW-4	PLACE SIDEWALK, CONC, 4 INCH, MODIFIED
SWR-6	PLACE SIDEWALK, SIDEWALK RAMP, CONC, 6 INCH, MODIFIED
DWS	DETECTABLE WARNING, CAST IN PLACE
ISW-CB	INTEGRAL SIDEWALK/CURB
ABO	ADJUST BY OTHERS
HD	HAND DIG AND PRUNE ROOTS 1-1/2 INCHES OR GREATER
1	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
2	ADJUST STRUCTURE COVER



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

BROOKS STREET IMPROVEMENTS

BROOKS ST SIDEWALK RIGHT

STA. 12+50 - STA. 14+33.8

SHEET No. **53 OF 57**

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING No. **2021016-53**

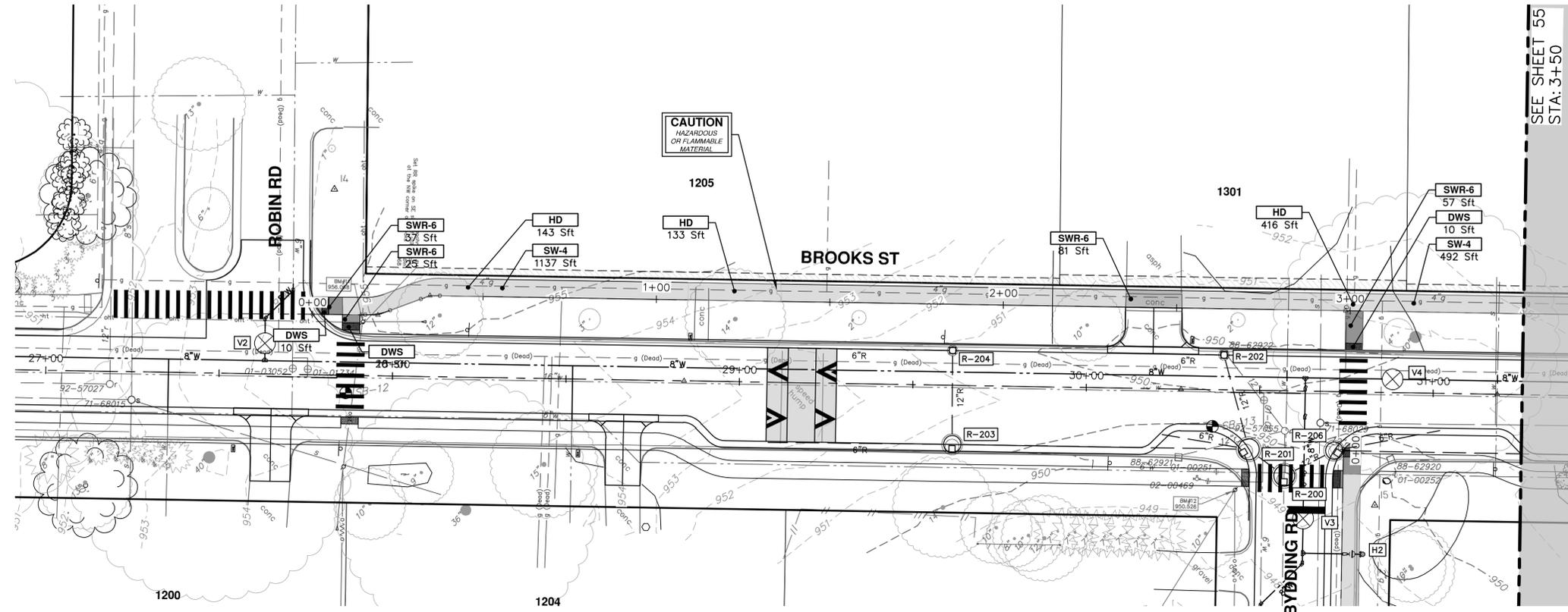


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ANN ARBOR: 734-794-4410
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT TO BID	3-13-23	CC/DF/KG	TB

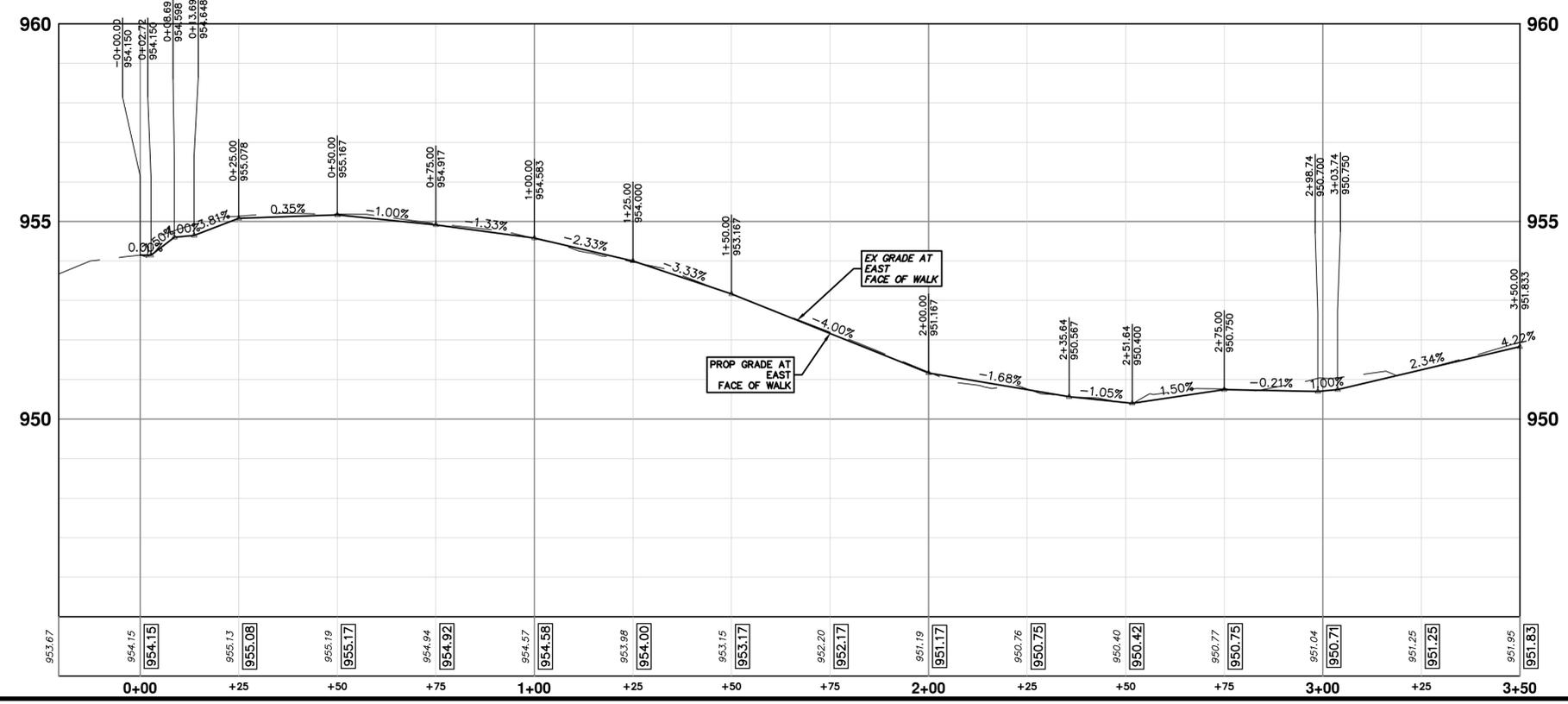


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SIDEWALK CONSTRUCTION KEY

KEY	DESCRIPTION
SW-4	PLACE SIDEWALK, CONC, 4 INCH, MODIFIED
SWR-6	PLACE SIDEWALK, SIDEWALK RAMP, CONC, 6 INCH, MODIFIED
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1	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
2	ADJUST STRUCTURE COVER



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

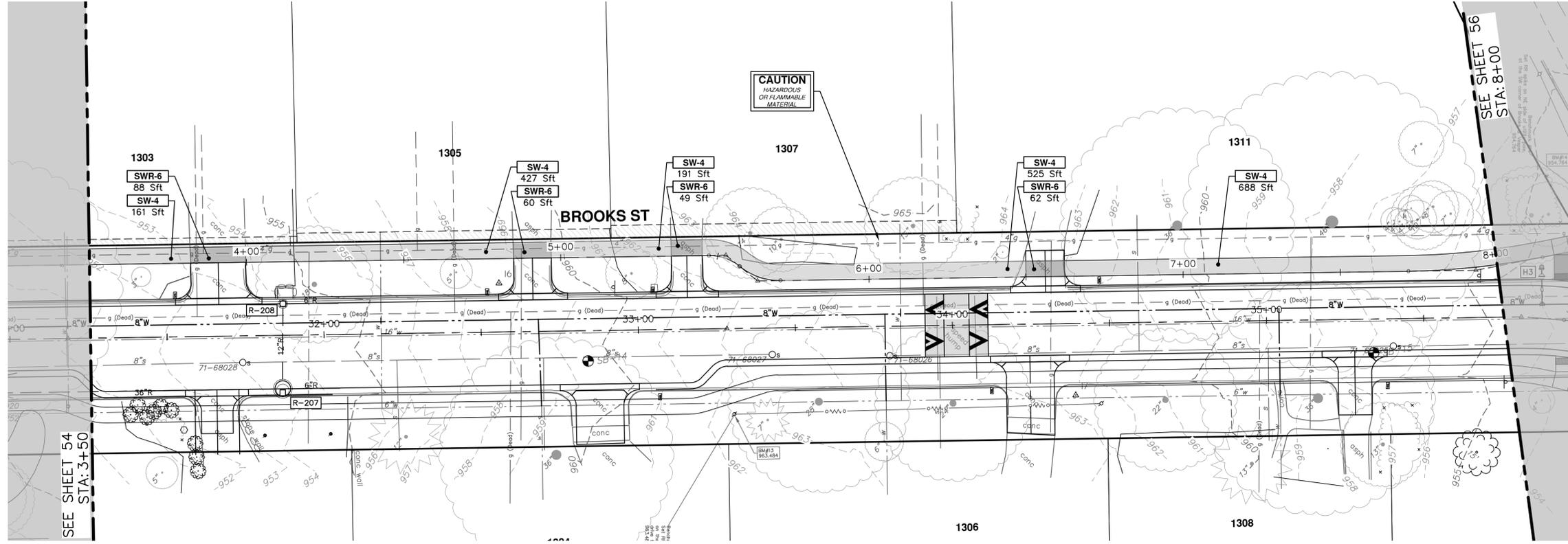
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROOKS STREET IMPROVEMENTS
BROOKS ST SIDEWALK LEFT
STA. 0+00 - STA. 3+50

CITY OF ANN ARBOR
PUBLIC SERVICES
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PO BOX 86410
ANN ARBOR MI 48108-8647
www.a2gov.org

CITY OF ANN ARBOR MICHIGAN

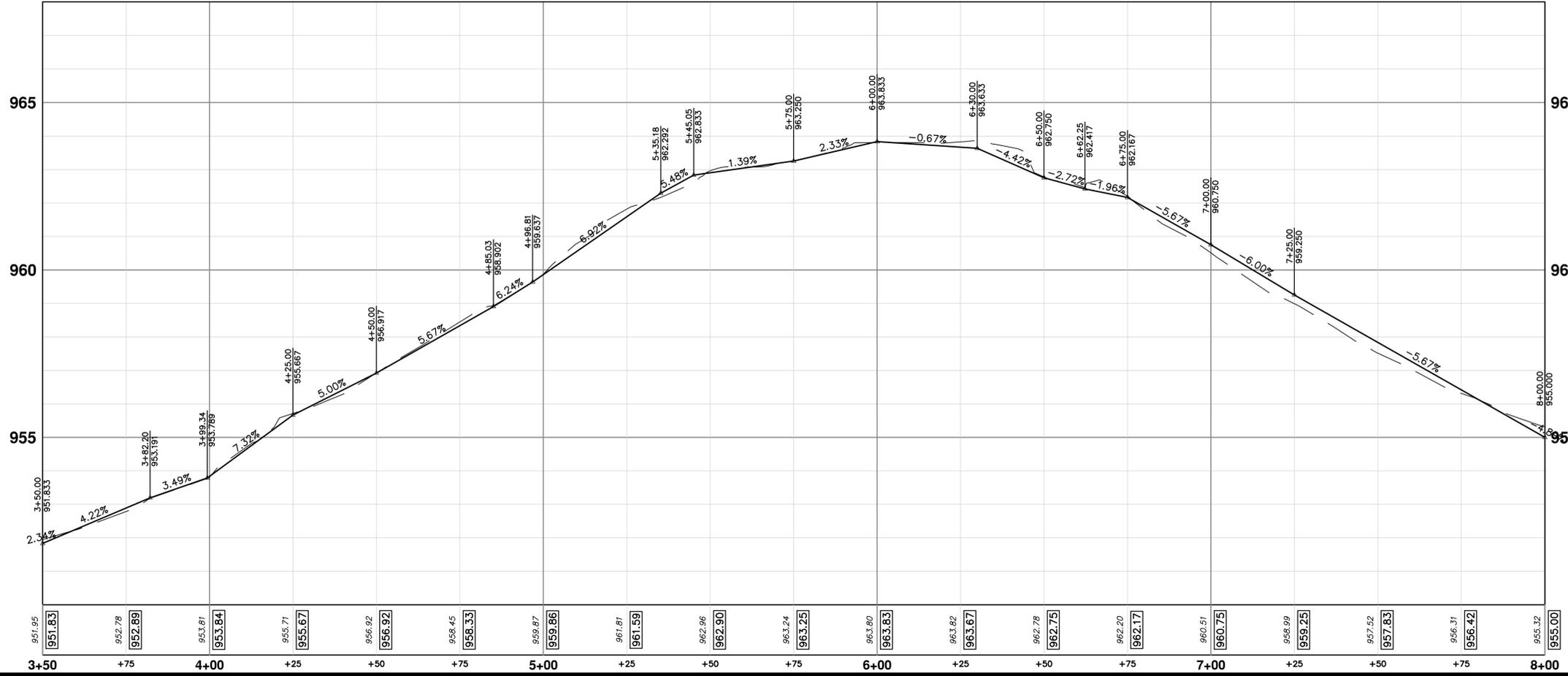
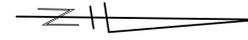
SHEET No. 54 OF 57
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING No. 2021016-54

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT TO BID	3-13-23	CC/DF/KG	TB



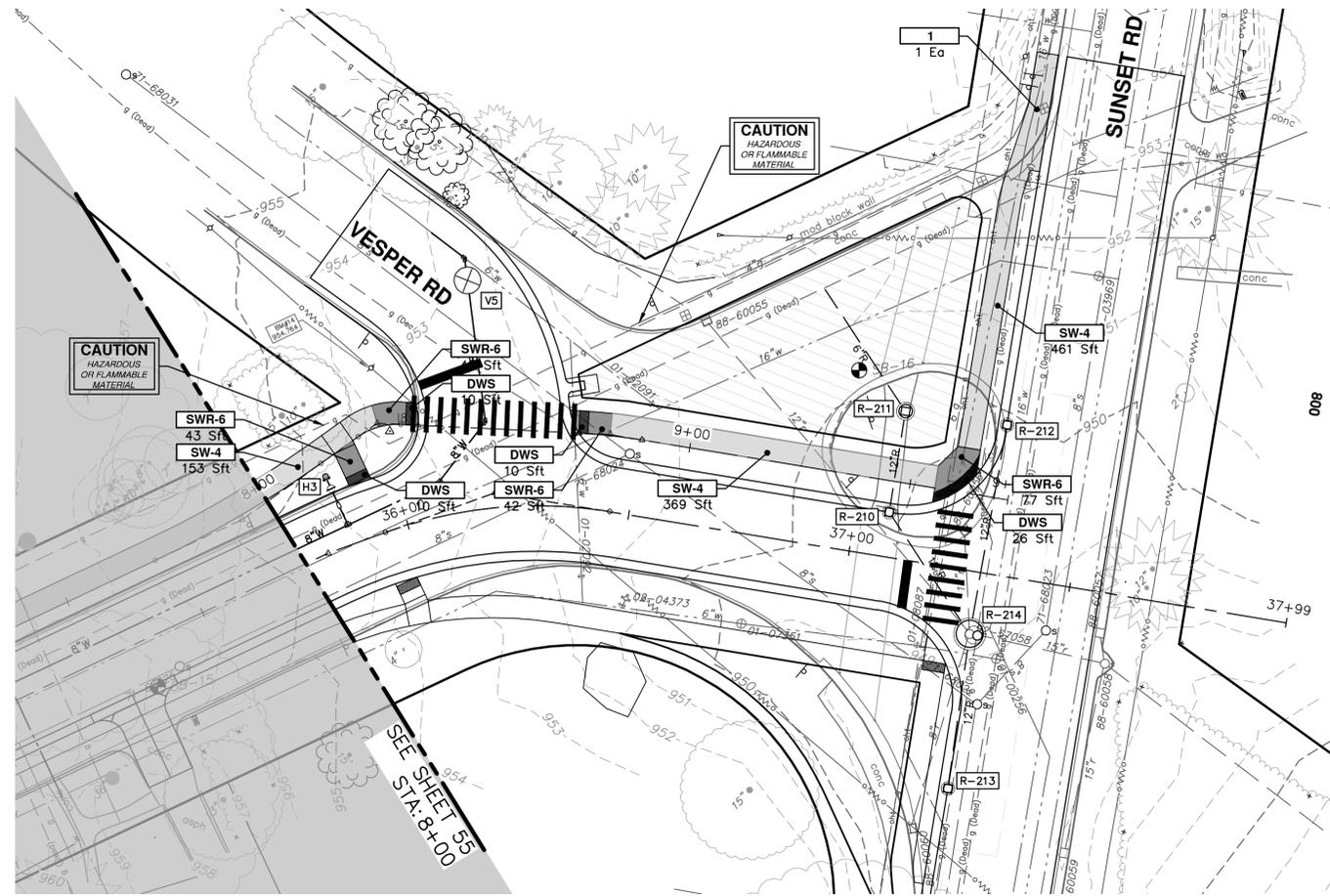
SIDEWALK CONSTRUCTION KEY

KEY	DESCRIPTION
SW-4	PLACE SIDEWALK, CONC, 4 INCH, MODIFIED
SWR-6	PLACE SIDEWALK, SIDEWALK RAMP, CONC, 6 INCH, MODIFIED
DWS	DETECTABLE WARNING, CAST IN PLACE
ISW-CB	INTEGRAL SIDEWALK/CURB
ABO	ADJUST BY OTHERS
HD	HAND DIG AND PRUNE ROOTS 1-1/2 INCHES OR GREATER
1	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
2	ADJUST STRUCTURE COVER

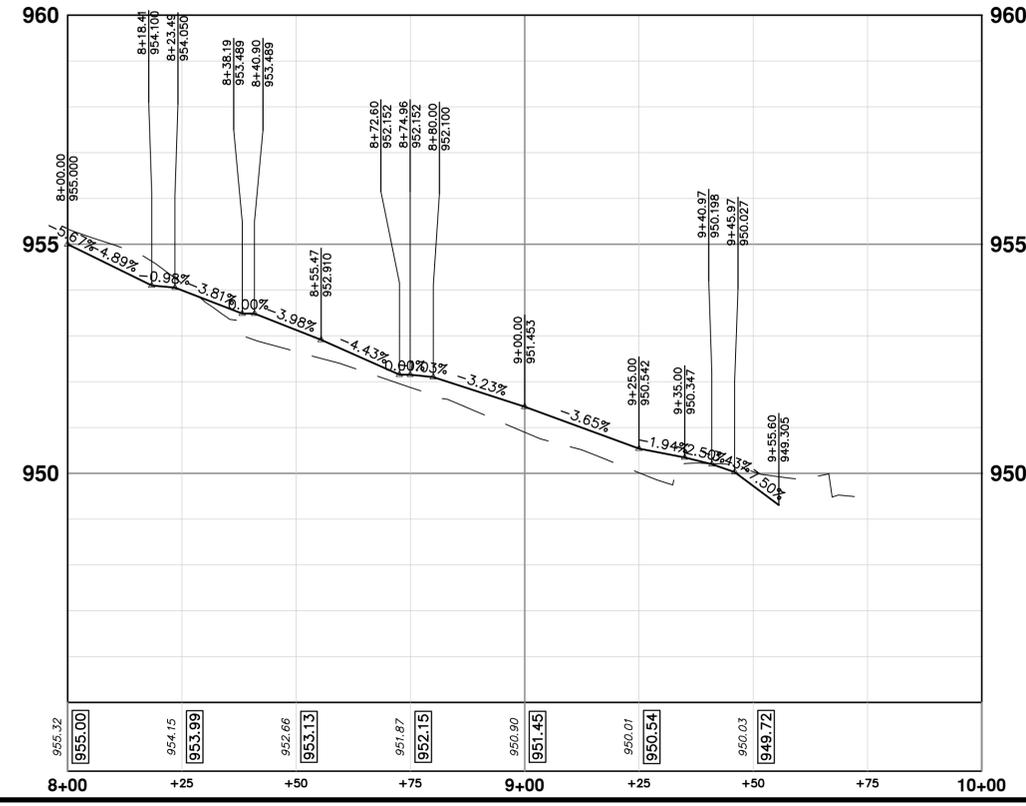


REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT TO BID	3-13-23	CC/DF/KGB	TB

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KEY	DESCRIPTION
SW-4	PLACE SIDEWALK, CONC, 4 INCH, MODIFIED
SW-6	PLACE SIDEWALK, SIDEWALK RAMP, CONC, 6 INCH, MODIFIED
DWS	DETECTABLE WARNING, CAST IN PLACE
ISW-CB	INTEGRAL SIDEWALK/CURB
ABO	ADJUST BY OTHERS
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1	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
2	ADJUST STRUCTURE COVER



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

BROOKS STREET IMPROVEMENTS

BROOKS ST SIDEWALK LEFT

STA. 8+00 - STA. 9+75

SHEET No. **56 OF 57**

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

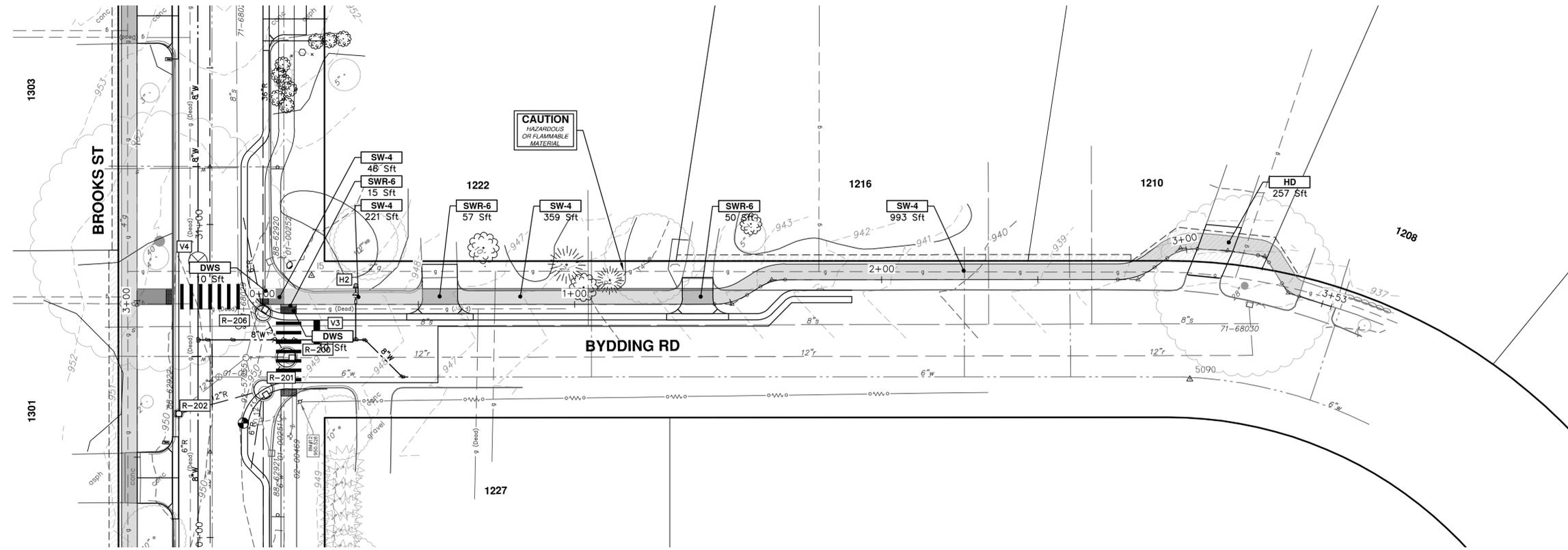
DRAWING No. **2021016-56**

811
Know what's below.
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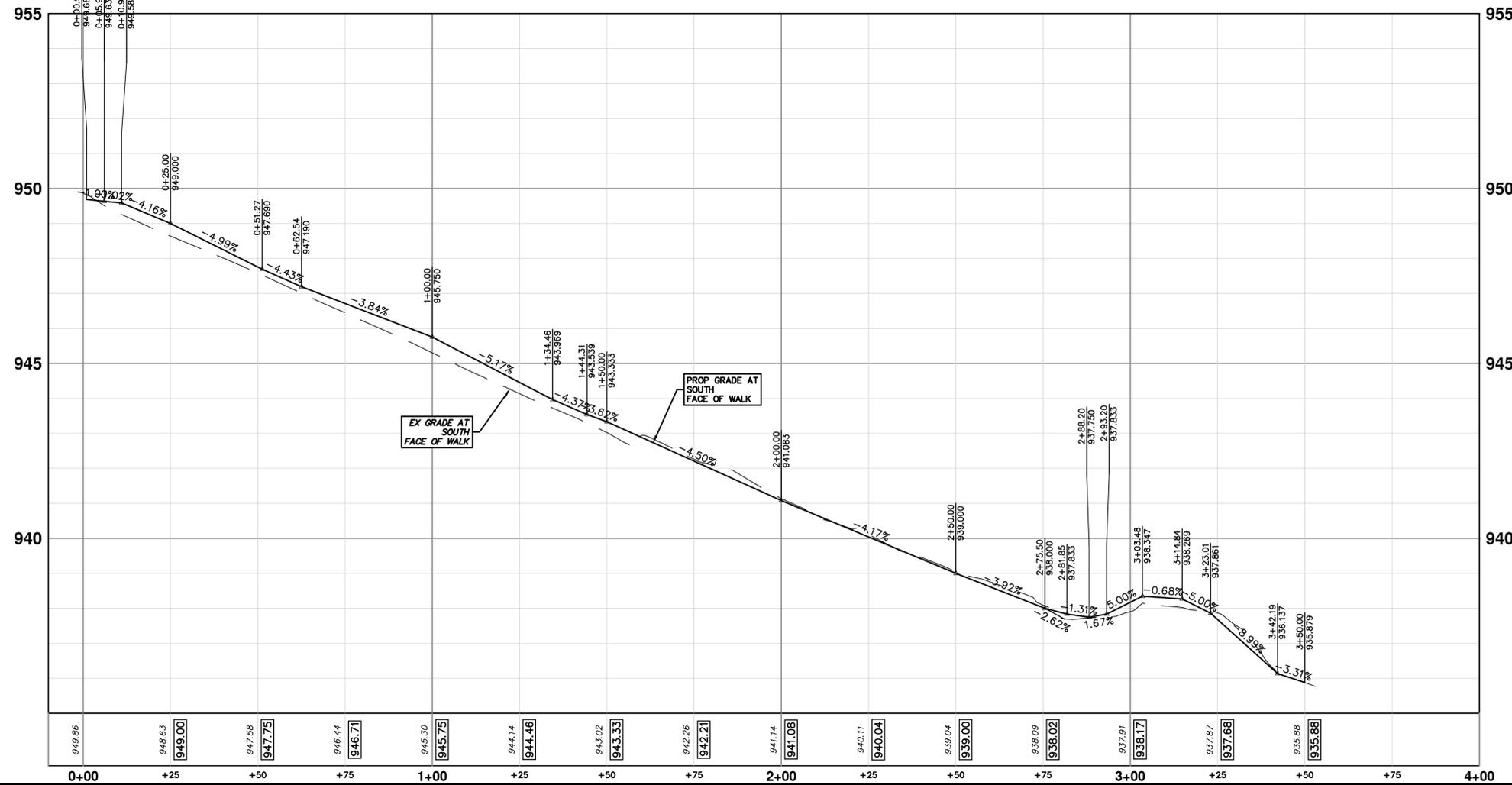
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CITY OF ANN ARBOR MICHIGAN

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT TO BID	3-13-23	CC/DF/KG	TB



KEY	DESCRIPTION
SW-4	PLACE SIDEWALK, CONC, 4 INCH, MODIFIED
SW-6	PLACE SIDEWALK, SIDEWALK RAMP, CONC, 6 INCH, MODIFIED
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2	ADJUST STRUCTURE COVER



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BROOKS STREET IMPROVEMENTS

BYDDING RD SIDEWALK LEFT

STA. 0+00 - STA. 3+44

811
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DATE: 3-13-23
DRAWN: CC/DF/KG
CHECKED: TB

SHEET No. 57 OF 57

DRAWING No. 2021016-57