

ADDENDUM No. 1

RFP No. 23-04

Broadway Street Water Main Replacement and Resurfacing Project

Due: January 26, 2023 at 2:00 PM (local time)

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum includes 31 pages.**

The Proposer is to acknowledge receipt of this Addendum No. 1, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

The following forms provided within the RFP Document should be included in submitted proposal:

- **Attachment D - Prevailing Wage Declaration of Compliance**
- **Attachment E - Living Wage Declaration of Compliance**
- **Attachment G - Vendor Conflict of Interest Disclosure Form**
- **Attachment H - Non-Discrimination Declaration of Compliance**

Proposals that fail to provide these completed forms listed above upon proposal opening may be rejected as non-responsive and may not be considered for award.

I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the RFP documents which are outlined below are referenced to a page or Section in which they appear conspicuously. Offerors are to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

Section/Page(s)	Change
Replace Plan Sheets 11-12	Revised Standard details.
Replace Plan Sheets 15-18	Revised sheets to include catch basins and storm leads Revised sheets to include update location of exiting gas main.
Replace Plan Sheets 31-35, 37, 39-41	Revised sheets to include catch basins and storm leads Revised sheets to include update location of exiting gas main. Revised sheets to include structure and sewer table

Replace Page 7

K. Wage Requirements revised to include Highway and Heavy Construction Labor Rate Determination.

Replace Pages 14-17
with pages 14-17A

The bid form has been amended to reflect the modifications of this Addendum No. 1 and other quantity corrections from original contract documents.

Replace Pages SS-63/64

Updated Sidewalk Ramp Grading to includes Sidewalk grading

Replace Pages SS-73/74

Updated Sand Subbase Course CIP, 21 AA Aggregate Base Course CIP, 21 AA Limestone CIP

New Content 1-4

City of Ann Arbor Casting Schedule and Logo Special Detail

Department of Labor (DOL) has provided explanations to assist with classification in the following resource link: www.wdol.gov.

For the purposes of this RFP the Construction Type of **Highway and/or Heavy** will apply. **Dated 01/06/2023**.

A. CONFLICT OF INTEREST DISCLOSURE

The City of Ann Arbor Purchasing Policy requires that the consultant complete a Conflict of Interest Disclosure form. A contract may not be awarded to the selected bidder unless and until the Procurement Unit and the City Administrator have reviewed the Disclosure form and determined that no conflict exists under applicable federal, state, or local law or administrative regulation. Not every relationship or situation disclosed on the Disclosure Form may be a disqualifying conflict. Depending on applicable law and regulations, some contracts may awarded on the recommendation of the City Administrator after full disclosure, where such action is allowed by law, if demonstrated competitive pricing exists and/or it is determined the award is in the best interest of the City. A copy of the Conflict of Interest Disclosure Form is attached.

B. COST LIABILITY

The City of Ann Arbor assumes no responsibility or liability for costs incurred by the bidder prior to the execution of an Agreement. The liability of the City is limited to the terms and conditions outlined in the Agreement. By submitting a proposal, bidder agrees to bear all costs incurred or related to the preparation, submission, and selection process for the proposal.

C. DEBARMENT

Submission of a proposal in response to this RFP is certification that the Respondent is not currently debarred, suspended, proposed for debarment, and declared ineligible or voluntarily excluded from participation in this transaction by any State or Federal departments or agency. Submission is also agreement that the City will be notified of any changes in this status.

D. PROPOSAL PROTEST

All proposal protests must be in writing and filed with the Purchasing Manager within five (5) business days of any notices of intent. The bidder must clearly state the reasons for the protest. If any bidder contacts a City Service Area/Unit and indicates a desire to protest an award, the Service Area/Unit shall refer the bidder to the Purchasing Manager. The Purchasing Manager will provide the bidder with the appropriate instructions for filing the protest. The protest shall be reviewed by the City Administrator or designee, whose decision shall be final.

Any inquiries or requests regarding this procurement should be only submitted in writing to the Designated City Contacts provided herein. Attempts by the bidder to

marital status, sexual orientation, gender identity or expression, height, weight, or disability.

4. The bidder’s proposed use of sustainable products, technologies, or practices for the project, which reduce the impact on human health and the environment, including raw materials acquisition, production, manufacturing, packaging, distribution, reuse, operation, maintenance, and waste management.

5. The bidder’s environmental record, including findings of violations and penalties imposed by government agencies.

E. Schedule of Pricing/Cost – 20 Points

Company: _____

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
130	Protective Fencing	FT	250	\$	\$
140	Exploratory Excavation (0-10')	EA	4	\$	\$
201	Project Supervision, Maximum \$40,000	LS	1	\$	\$
202	General Conditions, Maximum \$60,000	LS	1	\$	\$
203	Digital Audio-Visual Coverage	LS	1	\$	\$
204	Minor Traffic Control, Maximum \$50,000	LS	1	\$	\$
205	Project Clean-up & Restoration, Special, Max \$15,000	LS	1	\$	\$
206	“No Parking” Signs	EA	20	\$	\$
207	Certified Payroll Compliance and Reporting	LS	1	\$	\$
211	Remove Concrete Curb or Curb & Gutter-Any Type, Modified	FT	1008	\$	\$
212	Remove Concrete Sidewalk, Ramp & Drives-Any Thickness, Modified	SFT	2,955	\$	\$
213	HMA Pavement Surface Removal, Any Depth	SYD	4,281	\$	\$
214	Sidewalk Grading	FT	1,686	\$	\$
215	Sidewalk Ramp Grading	EA	22	\$	\$

Sheet 14 Total \$ _____

216	Sewer, Any size or Depth, Remove	FT	774	\$	\$
217	Drainage Structure, Any Size or Depth, Remove	EA	14	\$	\$
221	Water Main Pipe Abandonment, Modified	LS	1	\$	\$
222	Fire Hydrant Assembly Abandonment	EA	4	\$	\$
230	Machine Grading, Modified	SYD	12,000	\$	\$
231	Subgrade Undercutting, Type II	CYD	750	\$	\$
232	Sand Subbase Course, CL II – C.I.P.	SYD	945	\$	\$
233	21AA Aggregate Base Course-C.I.P.	SYD	4,205	\$	\$
234	21 AA Limestone – C.I.P	CYD	750	\$	\$
241	HMA, LVSP – Pavement Leveling/Top Course	TON	3,661	\$	\$
244	Concrete Speed Table	EA	7	\$	\$
245	Concrete Curb or Curb & Gutter-Any Type	FT	1,417	\$	\$
246	Concrete Curb or Curb & Gutter-Any Type-High Early	FT	188	\$	\$
247	4 inch Concrete Sidewalk	SFT	3,804	\$	\$
248	6 inch Concrete Sidewalk or Sidewalk Ramp	SFT	2,245	\$	\$
249	6 inch Concrete Drive Approach-High Early	SFT	1,550	\$	\$
250	Integral Sidewalk Retaining Wall, Under 6 inch	SFT	42	\$	\$
253	Detectable Warning, Cast in Place	SFT	344	\$	\$
254	Pavt Mrkg, Ovly Cold Plastic, 12 inch Crosswalk	FT	504	\$	\$
255	Pavt Mrkg, Ovly Cold Plastic, 24 inch Stop Bar	FT	24	\$	\$
256	Pavt Mrkg, Ovly Cold Plastic, Left Turn Arrow	EA	1	\$	\$
258	Pavt Mrkg, Ovly Cold Plastic, Cross Hatching, Yellow	FT	110	\$	\$
259	Pavt Mrkg, Polyurea, 4 inch, Yellow	FT	9,037	\$	\$
260	Pavt Mrkg, Polyurea, 6 inch, White	FT	437	\$	\$
261	Recessing Pavt Mrkg, Longit	FT	9,255	\$	\$
270	Sign, Portable Changeable Message, Furnish and Operate	EA	2	\$	\$

Sheet 15 Total \$ _____

271	Plastic Drum – Lighted - Furnish and Operate	EA	100	\$	\$
272	Barricade Type III – Lighted - Furnish and Operate	EA	13	\$	\$
273	Temporary Sign-Type B - Furnish and Operate	SFT	316	\$	\$
274	Temporary Sign-Type B - Furnish and Operate, Special	SFT	9	\$	\$
276	Pedestrian Type II Barricade, Temp	EA	7	\$	\$
277	Sign, Type 3B	SFT	47.5	\$	\$
278	Post, Steel, 3 lb	FT	84	\$	\$
279	Post Hole Through Conc for Steel Post	EA	2	\$	\$
280	Reflective Panel for Permanent Sign Support, 3 foot	EA	2	\$	\$
281	Reflective Panel for Permanent Sign Support, 6 foot	EA	2	\$	\$
282	Turf Establishment	SYD	1,400	\$	\$
290	4 inch Class 52 DIP WPolywrap, Trench Detail 1, Modified	FT	41	\$	\$
291	6 inch Class 52 DIP W/Polywrap, Trench Detail 1, Modified	FT	65	\$	\$
292	8 inch Class 52 DIP W/Polywrap, Trench Detail 1, Modified	FT	232	\$	\$
293	12 inch Class 52 DIP W/Polywrap, Trench Detail 1, Modified	FT	2,972	\$	\$
294	Sacrificial Anode, 17B	EA	5	\$	\$
295	Temporary Water Main Line Stop, Additional Rental Day [Contingency]	EA	8	\$	\$
296	Temporary Water Main Line Stop, Less than 8 inch [Contingency]	EA	4	\$	\$
297	Temporary 8 inch or 12 inch Water Main Line Stop [Contingency]	EA	4	\$	\$
320	12 inch Class IV RCP, Trench Detail 1	FT	718	\$	\$
321	15 inch Class IV RCP, Trench Detail 1	FT	16	\$	\$
322	21 inch Class IV RCP, Trench Detail 1	FT	16	\$	\$
360	Type 1 Manhole, 48" Dia. (0-10' deep)	EA	2	\$	\$

Sheet 16 Total \$ _____

367	Single Inlet	EA	11	\$	\$
410	6" 45 Bend	EA	7	\$	\$
411	8" 45 Bend	EA	31	\$	\$
412	12" 22.5 Bend	EA	2	\$	\$
413	12" 45 Bend	EA	17	\$	\$
416	6"x4" Reducer	EA	2	\$	\$
417	8"x6" Reducer	EA	9	\$	\$
418	12"x8" Reducer	EA	2	\$	\$
430	12"x12"x4" Tee	EA	1	\$	\$
431	12"x12"x6" Tee	EA	2	\$	\$
432	12"x12"x8" Tee	EA	12	\$	\$
433	12"x12"x12" Tee	EA	2	\$	\$
440	Fire Hydrant Assembly	EA	10	\$	\$
441	6" Gate Valve-in-Box	EA	2	\$	\$
442	12" Gate Valve-in-Box	EA	2	\$	\$
443	12" Gate Valve-in-Well	EA	7	\$	\$
460	Excavate & Backfill for Water Service Tap and Lead	FT	876	\$	\$
482	Gate Valve-in-Box Abandonment	EA	2	\$	\$
516	6" Wrapped Edge Drain	LF	128	\$	\$
563	Structure Covers	LB	7,150	\$	\$
566	Adjust Structure Cover	EA	30	\$	\$
567	Adjust Monument Box, Valve Box, or Gas Box	EA	9	\$	\$
702	Erosion Control, Inlet Filter	EA	26	\$	\$
703	Erosion Control, Silt Fence	FT	150	\$	\$
				Sheet 17 Total \$ _____	

Sheet 14 Total \$ _____

Sheet 15 Total \$ _____

Sheet 16 Total \$ _____

Sheet 17 Total \$ _____

Grand Total All Sheets \$ _____

Contractor Acknowledgement of Addendums:

Addendum #1 _____

DETAILED SPECIFICATION
FOR
ITEM #214 – SIDEWALK GRADING
ITEM #215 – SIDEWALK RAMP GRADING

1 of 2

DESCRIPTION

Remove miscellaneous structures and materials and complete all earthwork required to construct **all sidewalk and** ADA compliant sidewalk ramps within the construction limits shown on the plans or stated in this detailed specification. All lines and grades will be as shown on the plans and as directed by the Engineer to comply with ADA requirements. Complete this work according to the MDOT 2012 Standard Specifications for Construction and this detailed specification.

MATERIALS

Furnish and place required subbase and embankment material conforming to the MDOT 2012 Standard Specifications for Construction as necessary to achieve the required typical cross sections. Excavated material, if suitable, may be used as embankment material as approved by the Engineer.

CONSTRUCTION METHOD

Complete this work according to applicable sections of the Standard Specifications for Construction. Sidewalk **and** Ramp Grading includes, but is not limited to, the following work:

1. Strip and stockpile topsoil for use in turf establishment.
2. Furnish, place and compact additional material.
3. Clearing, including trees less than 8 inches in diameter.
4. Remove rocks or boulders less than 0.5 cubic yards in volume.
5. Remove and relocate mailbox posts and mailboxes.
6. Sawcut existing pavement.
7. Match drive and approach grades to new pavement grades.
8. Remove miscellaneous structures and materials.
9. Dispose of excess and unsuitable material according to Section 205.
10. Place embankment and reshape to proposed grades.
11. Excavate material to a depth necessary for construction.
12. Place embankment to a thickness necessary for construction.
13. Excavate for subbase material.

MEASUREMENT AND PAYMENT

The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

Pay Item	Pay Unit
Sidewalk Grading	Feet
Sidewalk Ramp Grading	Each

Sidewalk Grading includes all labor, equipment, and materials necessary to complete the work described. Limits of the sidewalk grading shall include all grading work from **right-of-way to edge of pavement or curb** along the length of sidewalk, necessary to accommodate the grades of the new sidewalk as detailed on the plans. Additional limits necessary to accommodate proper slope and drainage along the road right-of-way shall also be included as directed by the Engineer.

Sidewalk Ramp Grading applies to the ramps that are currently not ADA compliant and trench work is not causing reconstruction of the sidewalk ramp. Sidewalk Ramp Grading applies separately to each quadrant of an intersection where sidewalk is to be removed and graded for ADA compliance. The limits are specified on the plans or as directed by the Engineer.

DETAILED SPECIFICATION
FOR
ITEM #232-SAND SUBBASE COURSE, CLASS II – C.I.P.
ITEM #233 –21AA AGGREGATE BASE COURSE – C.I.P.
ITEM #234- 21AA LIMESTONE – C.I.P.

1 of 2

DESCRIPTION

This work shall consist of constructing an aggregate subbase or base course on an existing aggregate surface, or on a prepared subgrade in accordance with Sections 301, 302 and 307 of the 2012 edition of the MDOT Standard Specifications for Construction, except as specified herein.

MATERIAL

The materials used for this work shall be MDOT 21AA and Class II granular material meeting the requirements of the City of Ann Arbor Standard Specifications.

CONSTRUCTION METHOD

Sand or aggregate courses shall not be placed if, in the opinion of the Engineer, there are any indications that they may become frozen before their specified densities are obtained.

Sand or aggregate courses shall not be placed on a frozen base, subbase or subgrade.

The Contractor shall not use rubber-tired equipment on the grade, when its use causes, or may cause, in the opinion of the Engineer, damage to the grade. The Contractor shall conduct his/her operation(s), and provide all necessary equipment, to insure the satisfactory completion of the work without damaging the grade. This includes the transporting, stockpiling, rehandling, and movement of materials over additional distances, in lieu of driving on an unprotected, or partially unprotected, grade.

The Contractor is solely responsible for the maintenance and protection of the grade. Further, any damage to the grade which, in the opinion of the Engineer, is caused as a result of the Contractor's operation(s), or his/her subcontractors' or suppliers' operation(s), shall be repaired by the Contractor at the Contractor's expense. This includes any additional earthwork and/or maintenance materials as directed by the Engineer, for the purposes of the Contractor's maintenance and protection of the grade.

The Contractor shall shape the base, subbase and subgrade to the elevations, crowns, and grades as specified on the Plans and as directed by the Engineer. This may include regrading the subbase to provide different crown grades than those existing prior to the construction.

The Contractor shall remove, add to, re-shape, re-grade, and re-compact the existing roadbed materials, and shall construct the roadway to the cross-section(s) as indicated on the Plans, as detailed in the Specifications, and as directed by the Engineer. The Contractor shall use blade graders, maintainers, vibratory rollers, and/or other equipment as necessary, and as directed by the Engineer, for this work. Use of each specific piece of equipment is subject to the approval of the Engineer.

The Contractor shall maintain the base, subbase and subgrade in a smooth, well drained condition at all times.

Sand and aggregate courses shall be placed in uniform layers such that when compacted, they have the thicknesses shown on the Plans, or as directed by the Engineer. The loose measure of any layer shall not be more than 9-inches or less than 4-inches.

Sand subbase and aggregate surface courses shall be compacted to not less than 95% of their respective maximum unit weights, as determined by the AASHTO T-180 test.

Aggregate base courses shall be compacted to not less than 98% of their respective maximum unit weights, as determined by the AASHTO T-180 test.

All granular materials shall be deposited from trucks or through a spreader in a manner that will minimize segregation of material.

Manholes, valve boxes, inlet structures and curbs shall be protected from damage. Manholes & inlet structures shall be continuously cleaned of construction debris and properly covered at all times during the construction. Upon completion of each day's work, manholes, water valve boxes, inlets and catch basins shall be thoroughly cleaned of all extraneous material.

At various times throughout the work, the Engineer may direct the Contractor to use smaller and/or lighter equipment, and to defer certain work tasks, in order to protect the grade and/or adjacent areas. The Contractor shall not be entitled to any additional compensation for the use of smaller equipment, lighter equipment, or work task deferral.

MEASUREMENT AND PAYMENT

Where granular materials are used as base, as subbase, or as fill for excavations in Machine Grading areas, items of work "21AA Aggregate Base Course - C.I.P." and "Sand Subbase Course, CL II - C.I.P." shall be measured and paid accordingly.

All necessary grading needed to accommodate the sidewalk base, shall be paid for separately as "Sidewalk Grading" and "Sidewalk Ramp Grading".

Where granular materials are used as fill for undercuts at locations other than Machine Grading areas, item of work shall be paid in accordance with "21AA Limestone - C.I.P".

The completed work as measured for these items of work will be paid for at the Contract Unit Prices for the following Contract (Pay) Items:

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Sand Subbase Course, Class II-C.I.P.	Square Yard
21AA Aggregate Base Course - C.I.P.	Square Yard
21AA Limestone - C.I.P.	Cubic Yard

The unit prices for these items of work shall include all labor, material, and equipment costs to perform all the work specified in the Standard Specifications and as modified by this Detailed Specification.

Sand Subbase Course, Class II – C.I.P. shall be used as subbase under all sidewalk and sidewalk ramps. Sidewalk shall be installed per the City of Ann Arbor Standard Specifications. Sand subbase shall be measured and paid for as the square yardage for the length of all sidewalk work. Width shall be measured from 1 foot outside of concrete walk to 1 foot outside edge of the concrete sidewalk and/or ramp.

TYPE OF CASTING	MDOT DESIGNATION	EJ CASTING NO.	NEENAH CASTING NO.
MANHOLE AND GATE WELL FRAME AND COVER	Q	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 DOUBLE 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 DOUBLE 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.

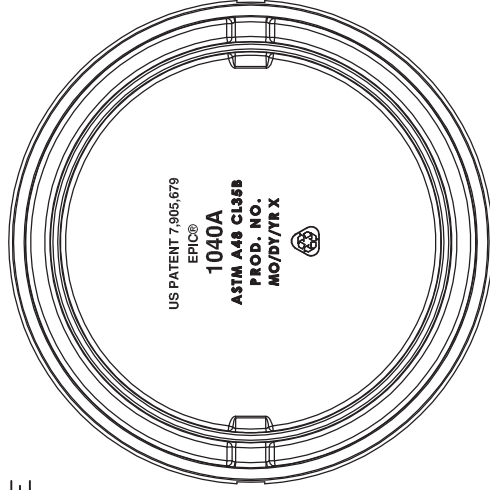
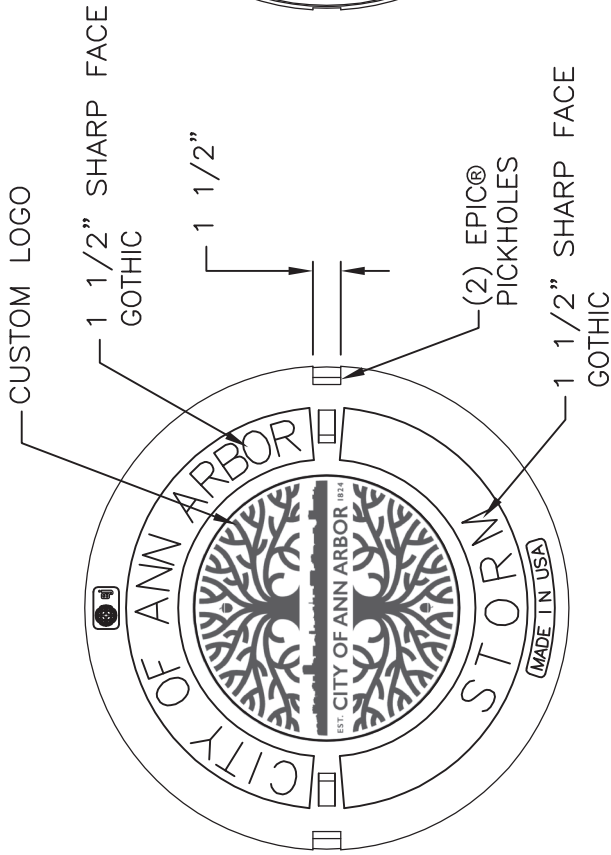
STANDARD CASTING SCHEDULE SD-GU-4



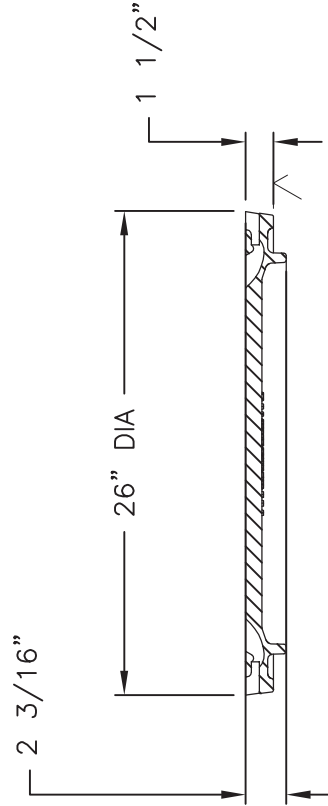
**CITY OF ANN ARBOR
PUBLIC SERVICES**
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

REV. NO.	DATE	DRAWN BY	CHECKED BY
STANDARD CASTING SCHEDULE			
DR. ENG	CH. ENG	DRAWING NO.	
SCALE N.T.S.	DATE 7/1/2022	SD-GU-4	

1040A Cover



BOTTOM VIEW



SECTION



EPICOR® DETAIL

Product Number

001040325

Design Features

- Materials
Gray Iron (CL35B)
- Design Load
Heavy Duty
- Open Area
n/a
- Coating
Dipped
- √ Designates Machined Surface

Certification

- ASTM A48
- Country of Origin: USA

Drawing Revision

5/4/2018 Designer: DAE
8/29/2018 Revised By: DAE

Disclaimer

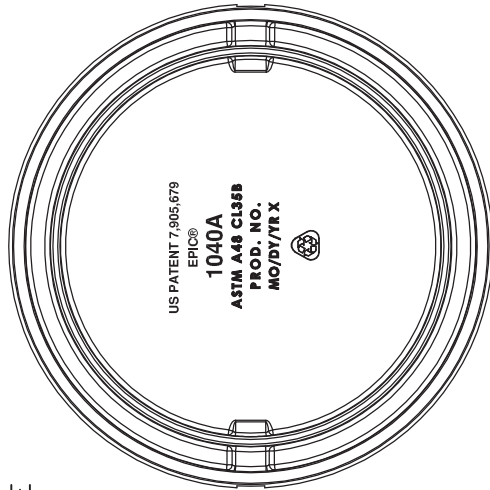
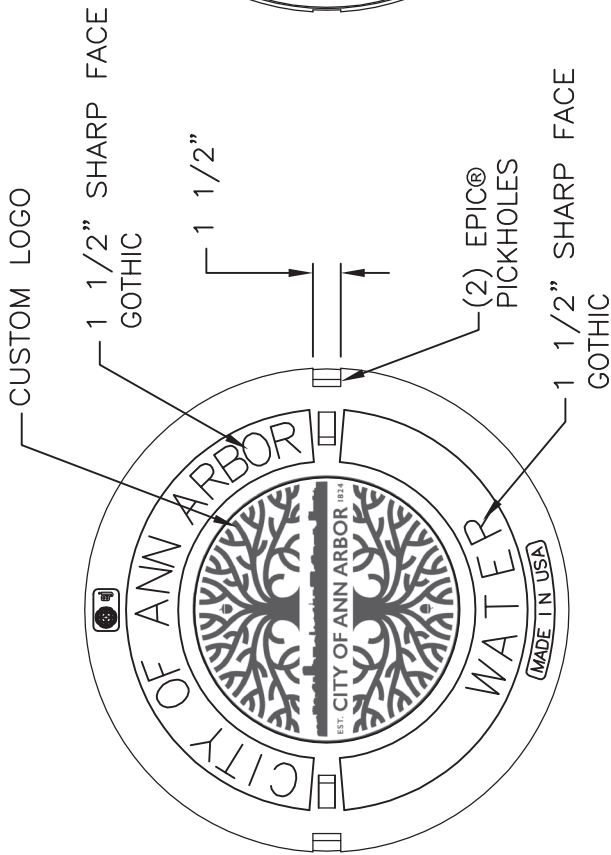
Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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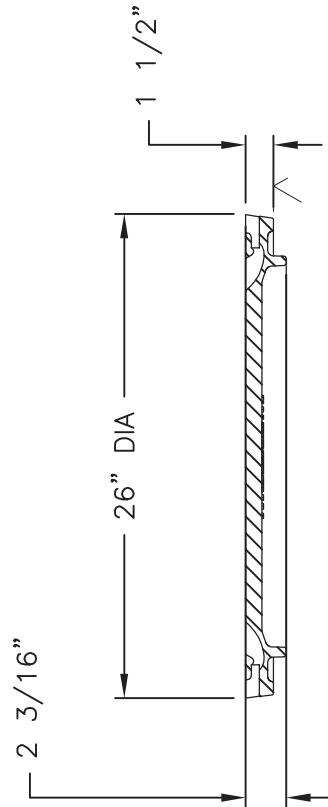
Contact

800 626 4653
ejco.com

1040A Cover



BOTTOM VIEW



SECTION



EPICOR® DETAIL

Product Number

001040324

Design Features

- Materials Gray Iron (CL35B)
- Design Load Heavy Duty
- Open Area n/a
- Coating Dipped
- Designates Machined Surface

Certification

- ASTM A48
- Country of Origin: USA

Drawing Revision

5/4/2018 Designer: DAE
8/29/2018 Revised By: DAE

Disclaimer

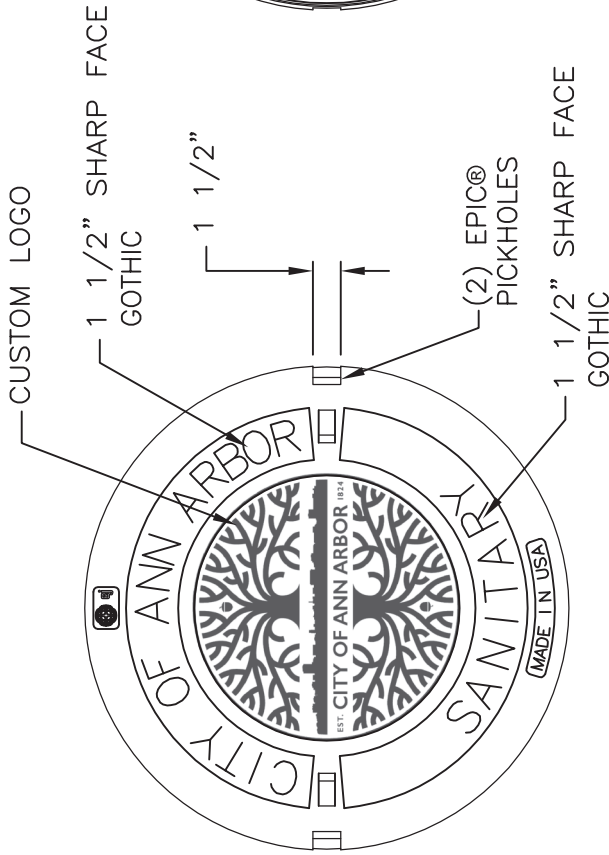
Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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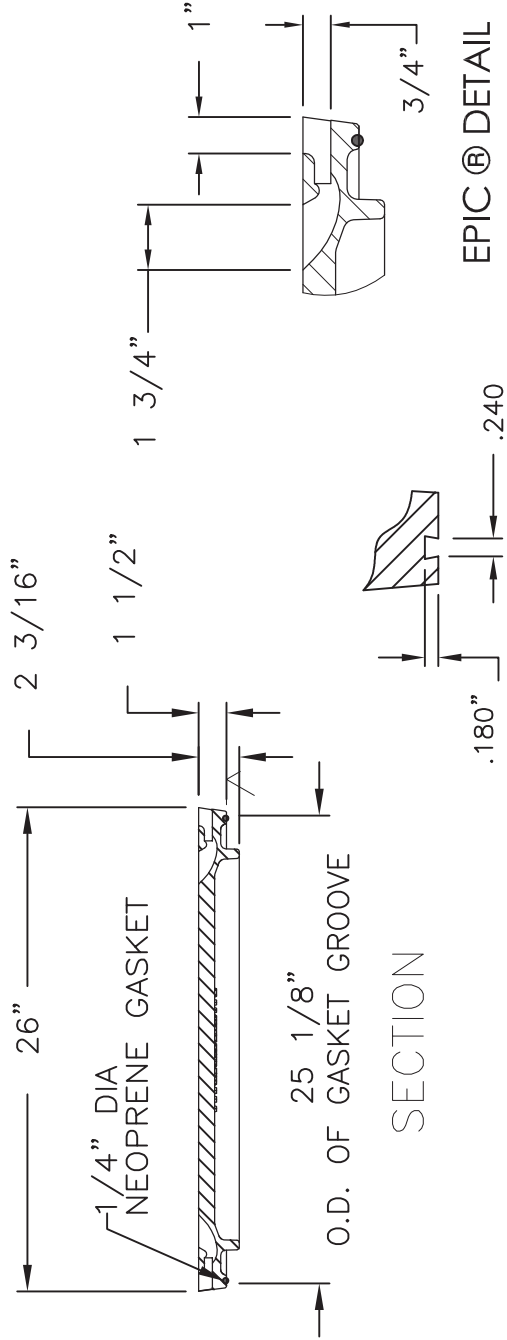
Contact

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1040AGS Cover



BOTTOM VIEW



SECTION

GROOVE DETAIL

EPIC® DETAIL

Product Number

001040326

Design Features

- Materials Gray Iron (CL35B)
- Design Load Heavy Duty
- Open Area n/a
- Coating Dipped
- Designates Machined Surface

Certification

- ASTM A48
- Country of Origin: USA

Drawing Revision

5/11/2018 Designer: DAE
8/29/2018 Revised By: DAE

Disclaimer

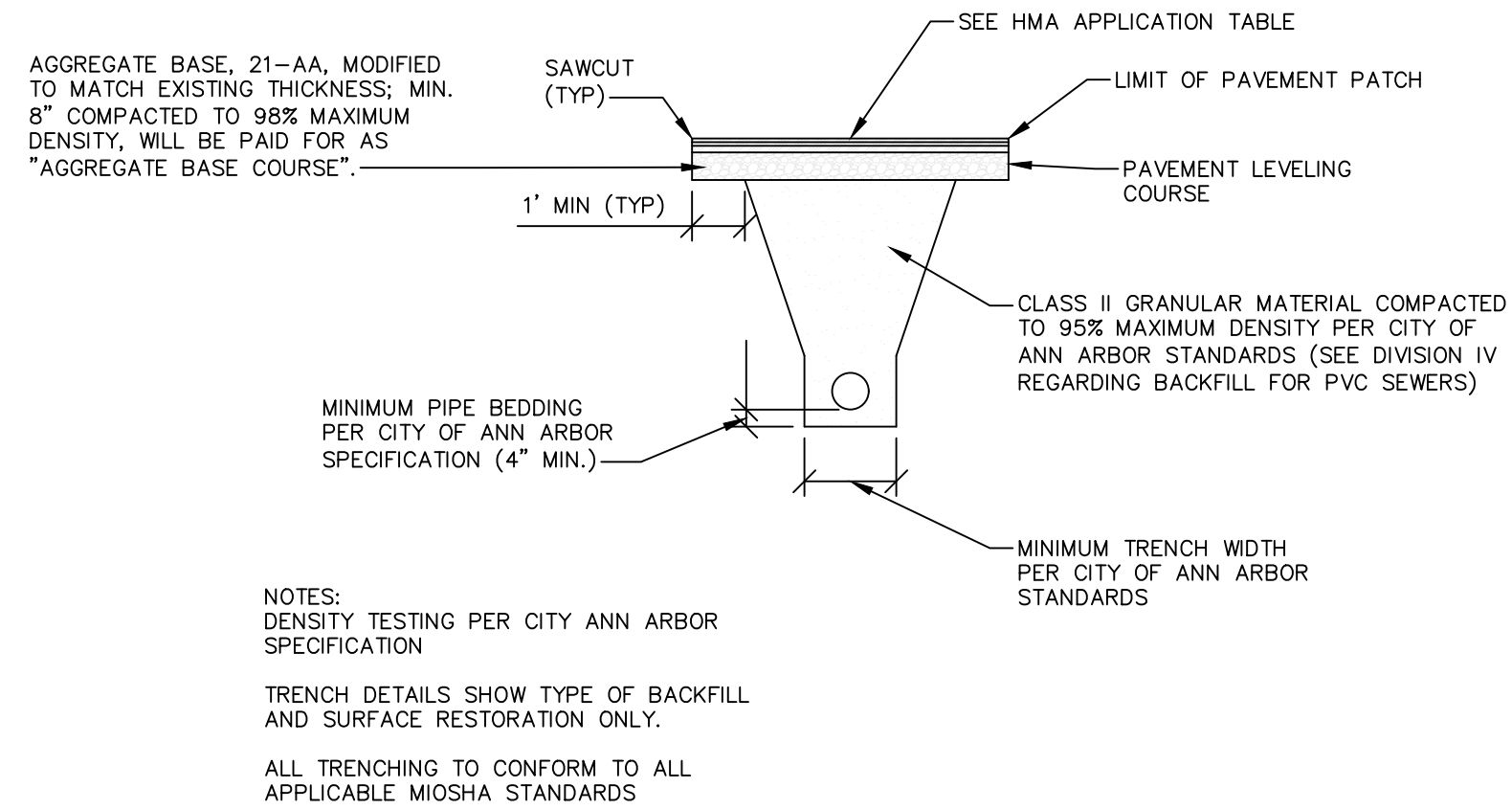
Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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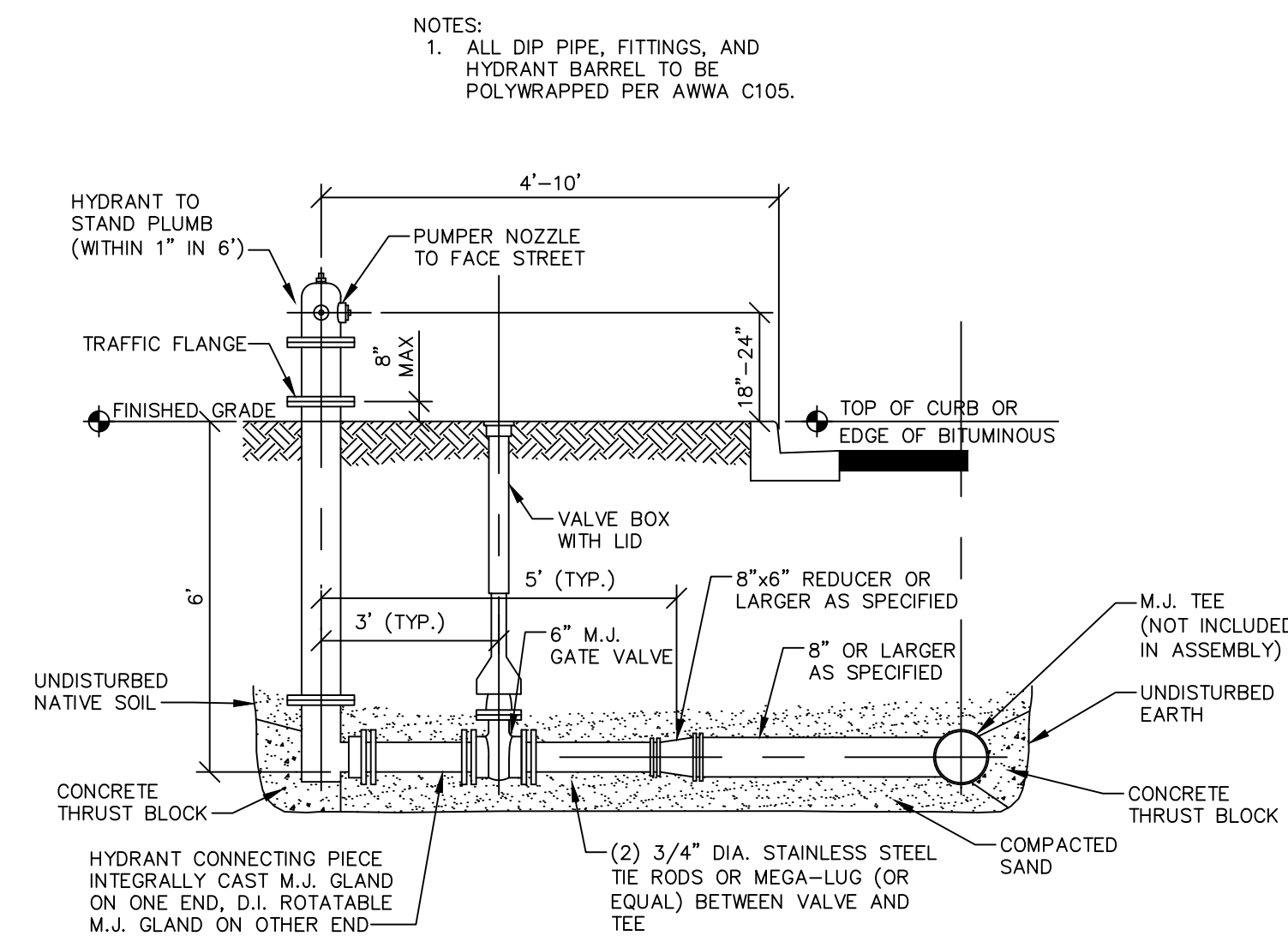
Contact

800 626 4653
ejco.com

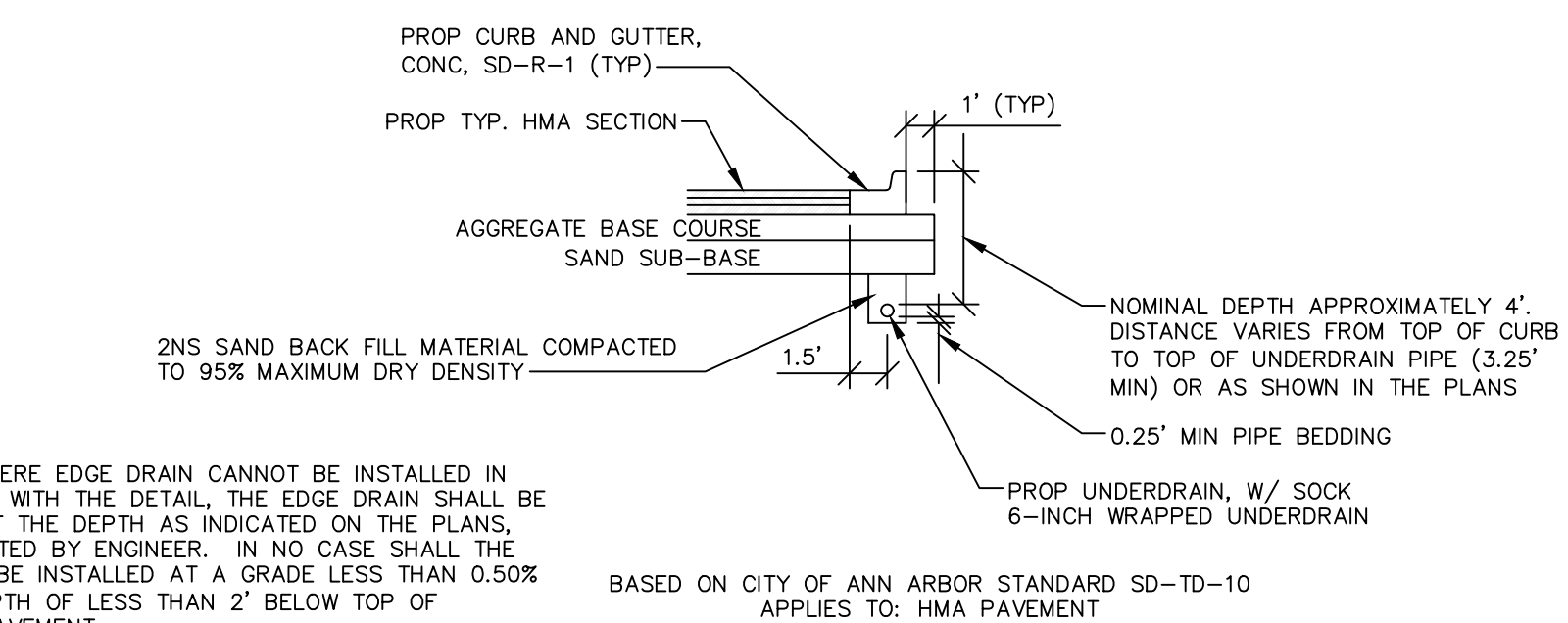
Z:\2021\211210\CAD\CD\211210_details.dwg - Plot Date: 1/13/2023 11:45:59 PM



**UTILITY TRENCH-TYPE I
SD-TD-1 (MODIFIED)**
(UNDER HMA PAVEMENT)

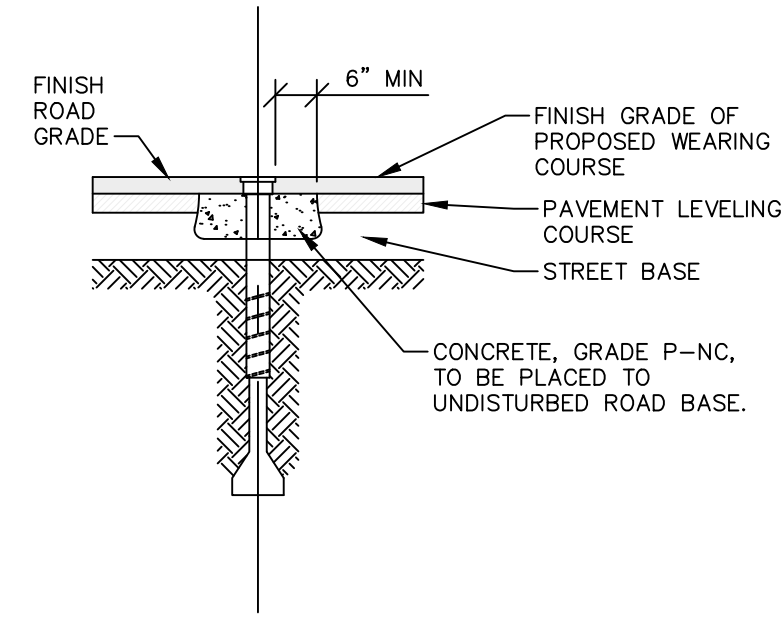


**STANDARD HYDRANT
ASSEMBLY**
NO SCALE



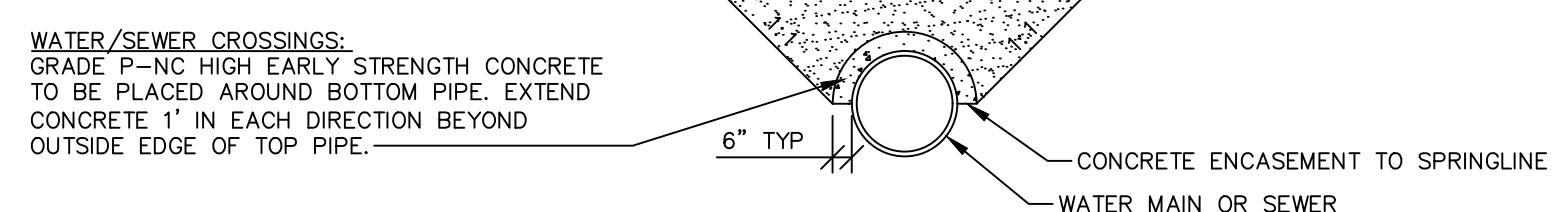
TRENCH DETAIL FOR UNDER DRAIN
(UNDER HMA PAVEMENT)

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



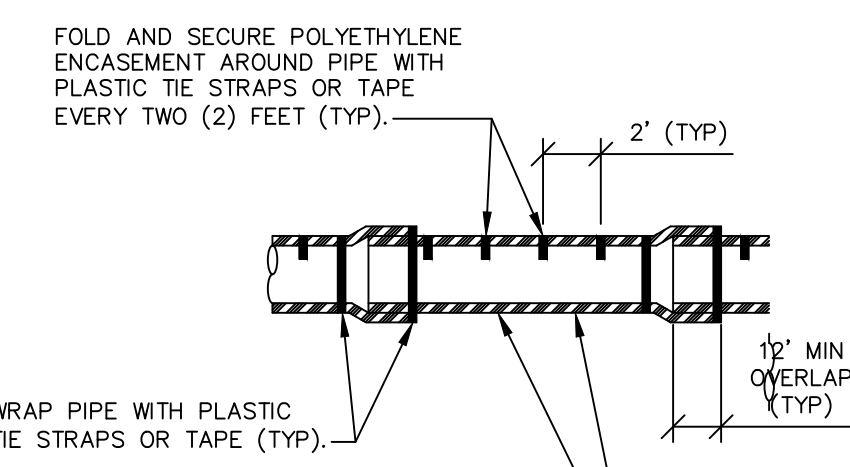
**WATER VALVE BOX
ADJUSTMENT**
NO SCALE

CLASS II GRANULAR MATERIAL COMPACTED TO 95% MAXIMUM DRY DENSITY PER CITY OF ANN ARBOR STANDARDS (SEE DIVISION IV REGARDING BACKFILL FOR PVC SEWERS).



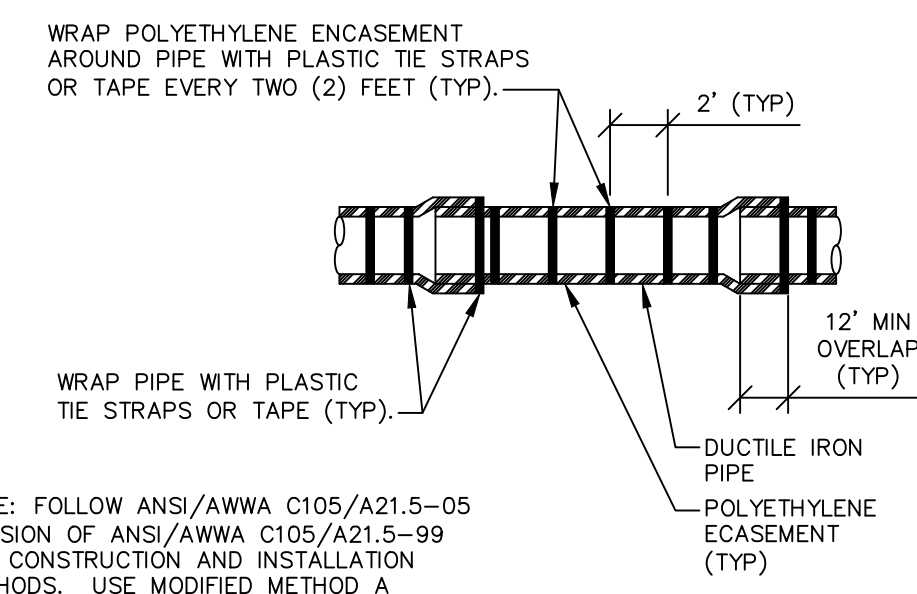
CONCRETE UTILITY SADDLE
NO SCALE

APPLIES TO: WATER AND/OR SEWER CROSSINGS WITH LESS THAN 1.5' OF VERTICAL CLEARANCE



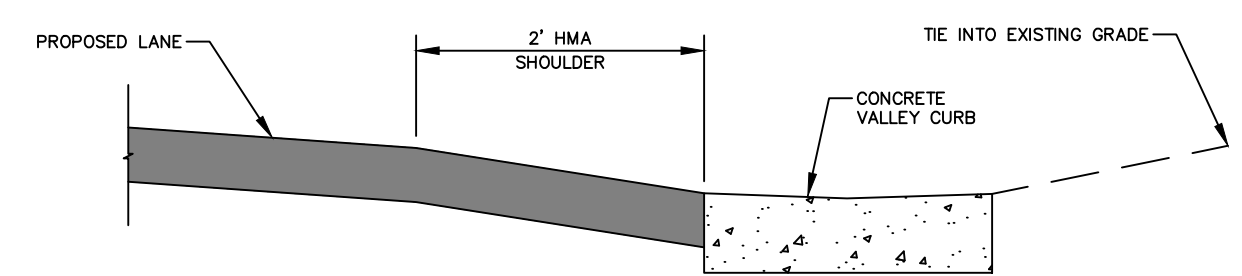
**POLYETHYLENE ENCASEMENT
(DRY INSTALLATION)**

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. WATER MAIN. SEE PLANS FOR LOCATION.

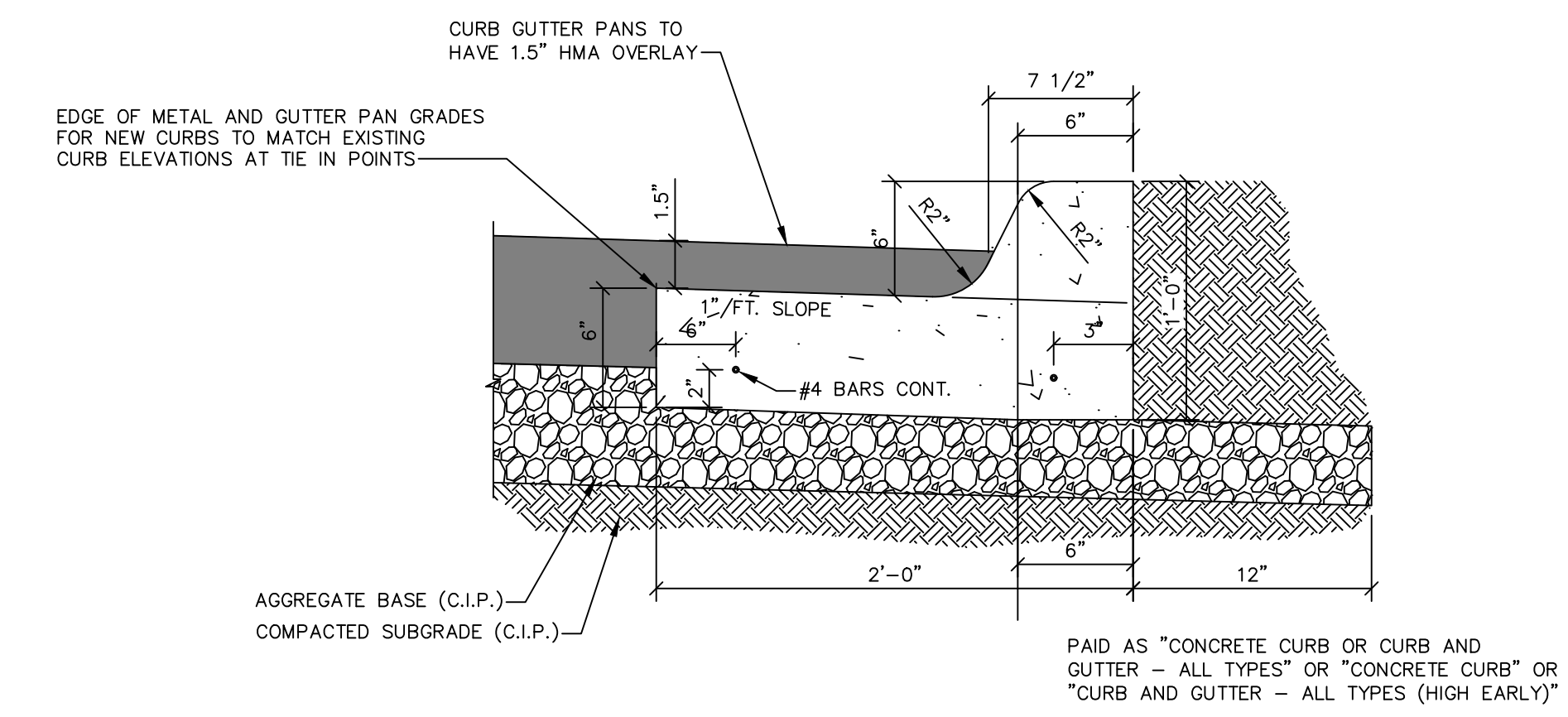


**POLYETHYLENE ENCASEMENT
(WET INSTALLATION)**

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. WATER MAIN. SEE PLANS FOR LOCATION.

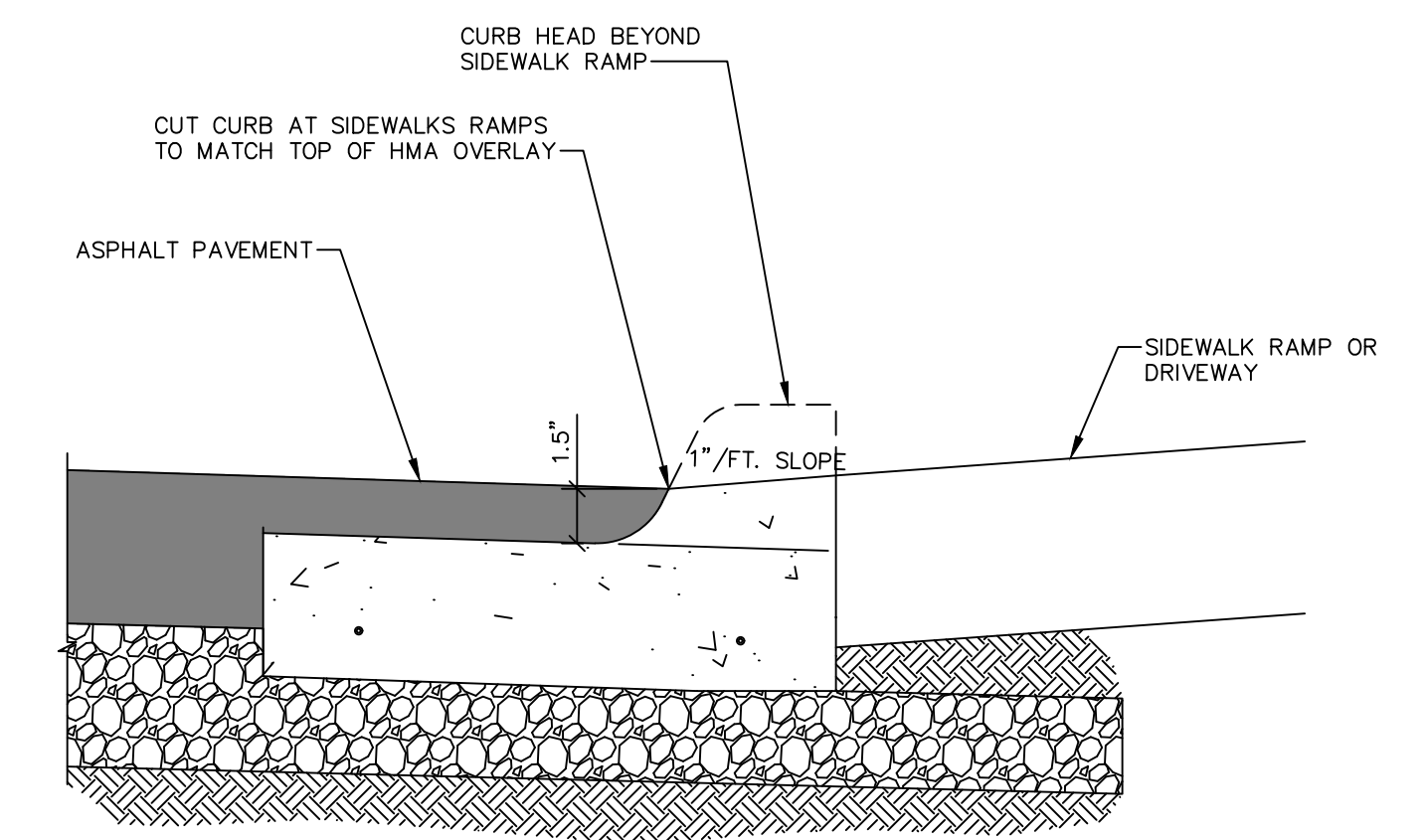


CONCRETE VALLEY CURB DETAIL
NO SCALE



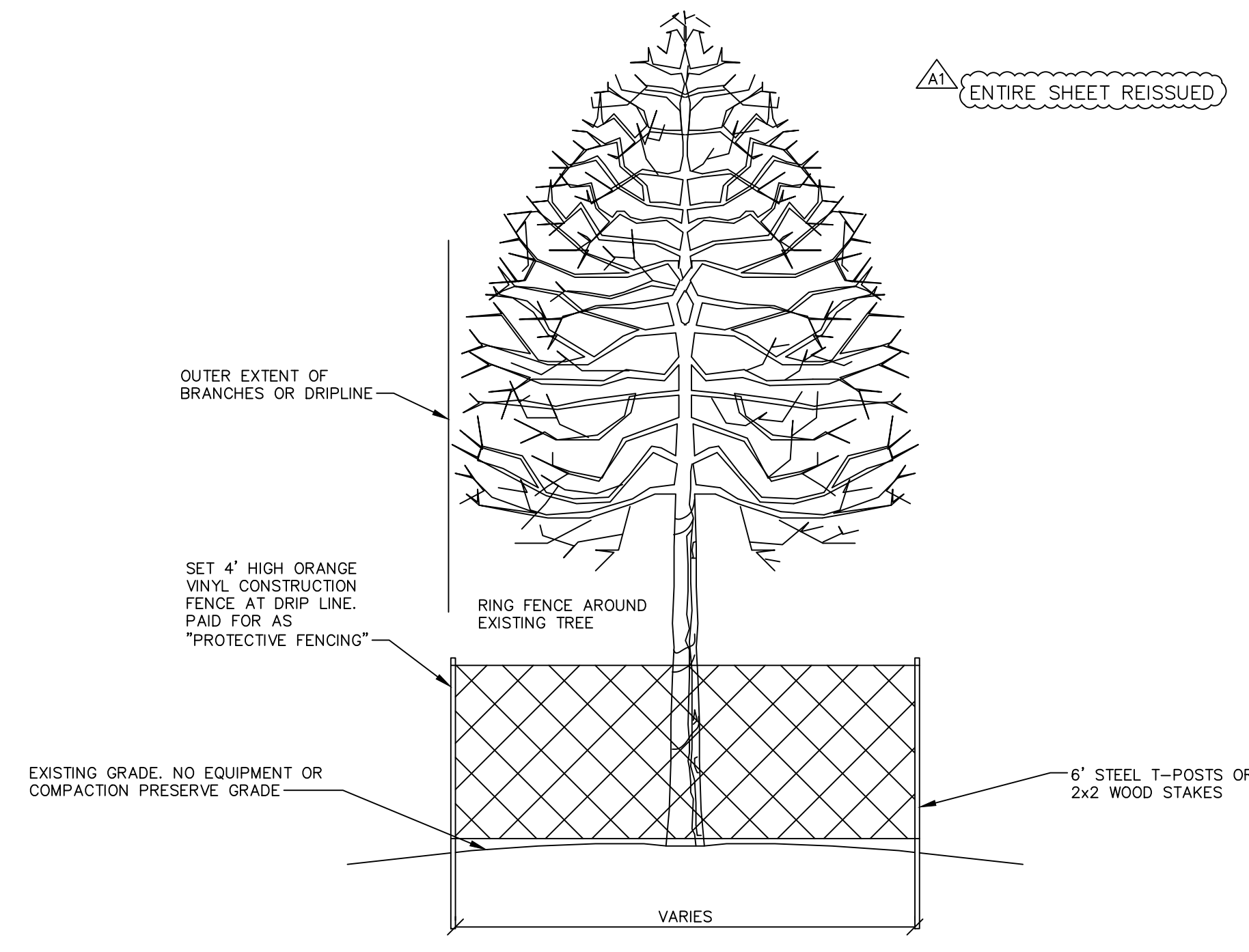
CURB AND GUTTER, CONC. DET F4, SPECIAL (WITH GUTTER PAN OVERLAY)
NO SCALE

PAID AS "CONCRETE CURB OR CURB AND GUTTER - ALL TYPES" OR "CONCRETE CURB" OR "CURB AND GUTTER - ALL TYPES (HIGH EARLY)"




CURB AND GUTTER, CONC. DET F4, SPECIAL (WITH GUTTER PAN OVERLAY)
NO SCALE

PAID AS "CONCRETE CURB OR CURB AND GUTTER - ALL TYPES" OR "CONCRETE CURB" OR "CURB AND GUTTER - ALL TYPES (HIGH EARLY)"




TREE PROTECTION DETAIL
NO SCALE



Know what's below.
Call before you dig.

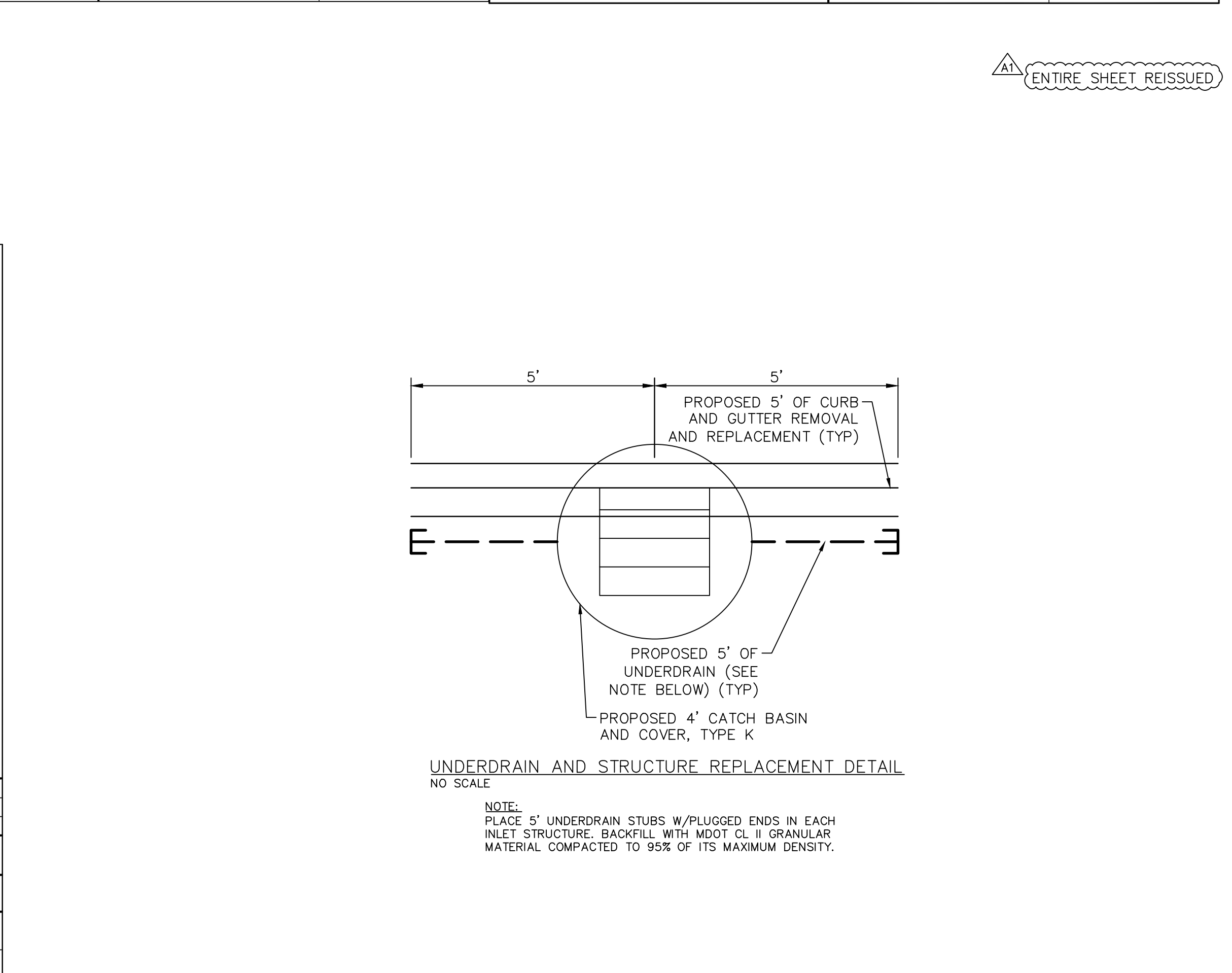
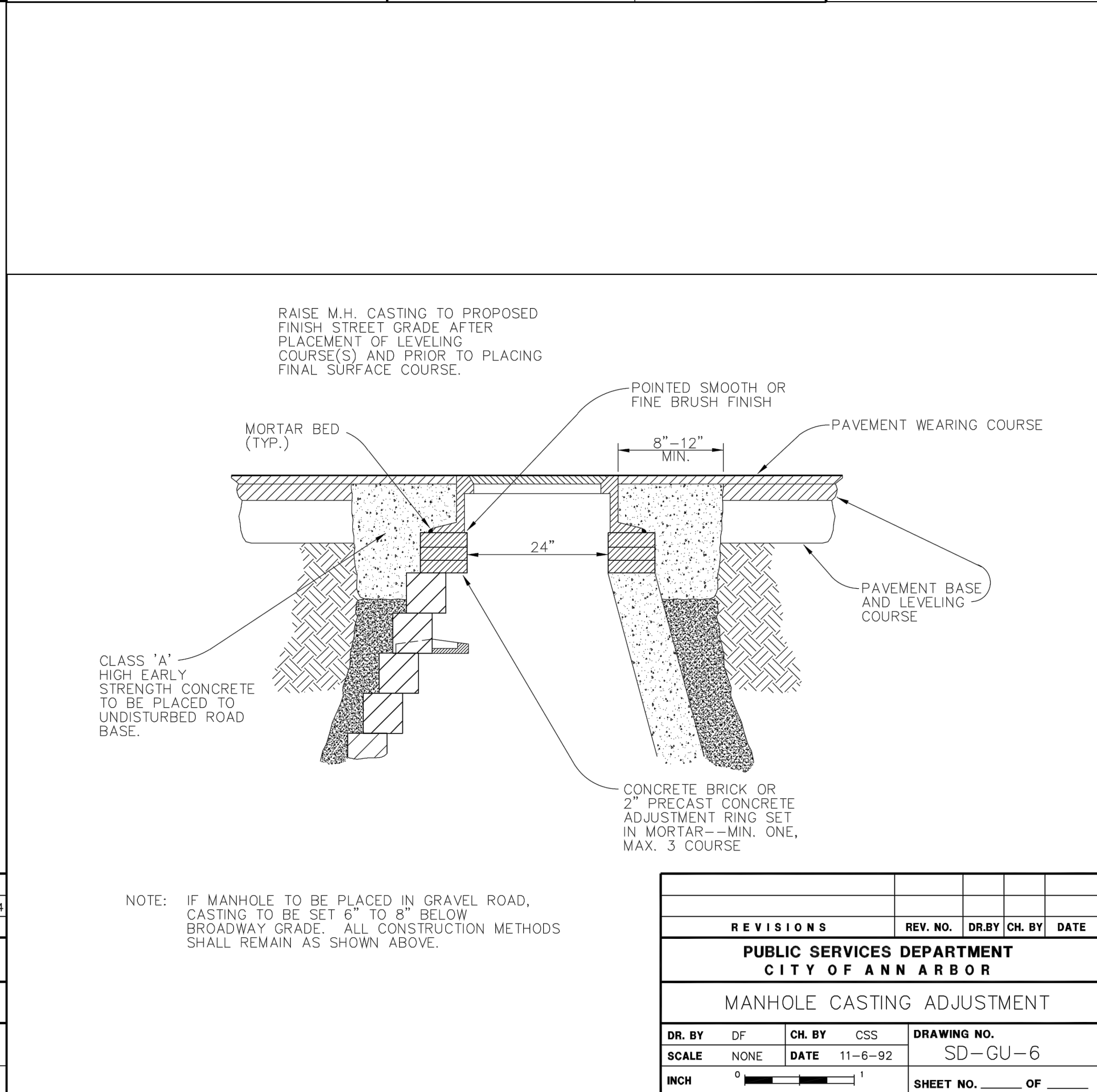
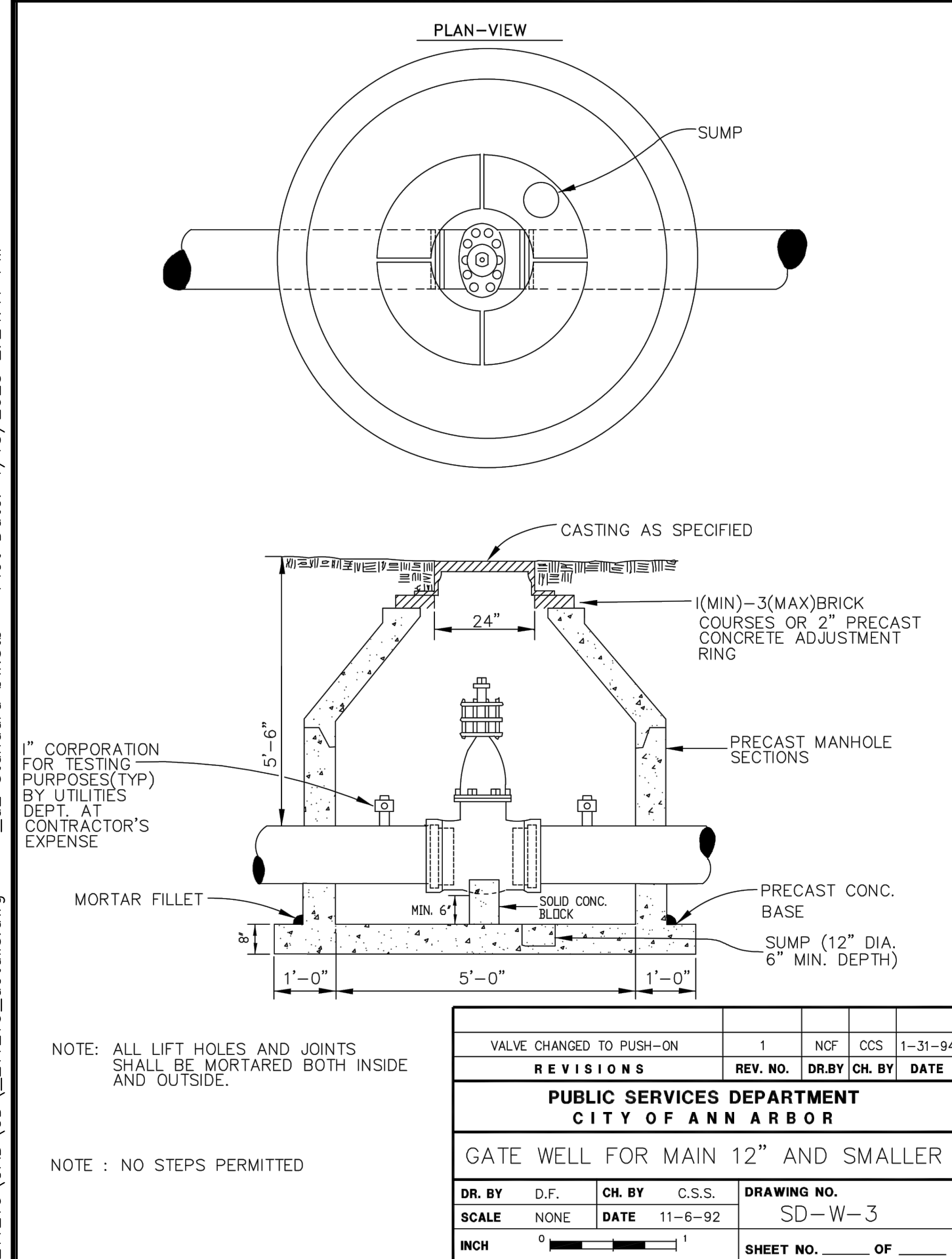
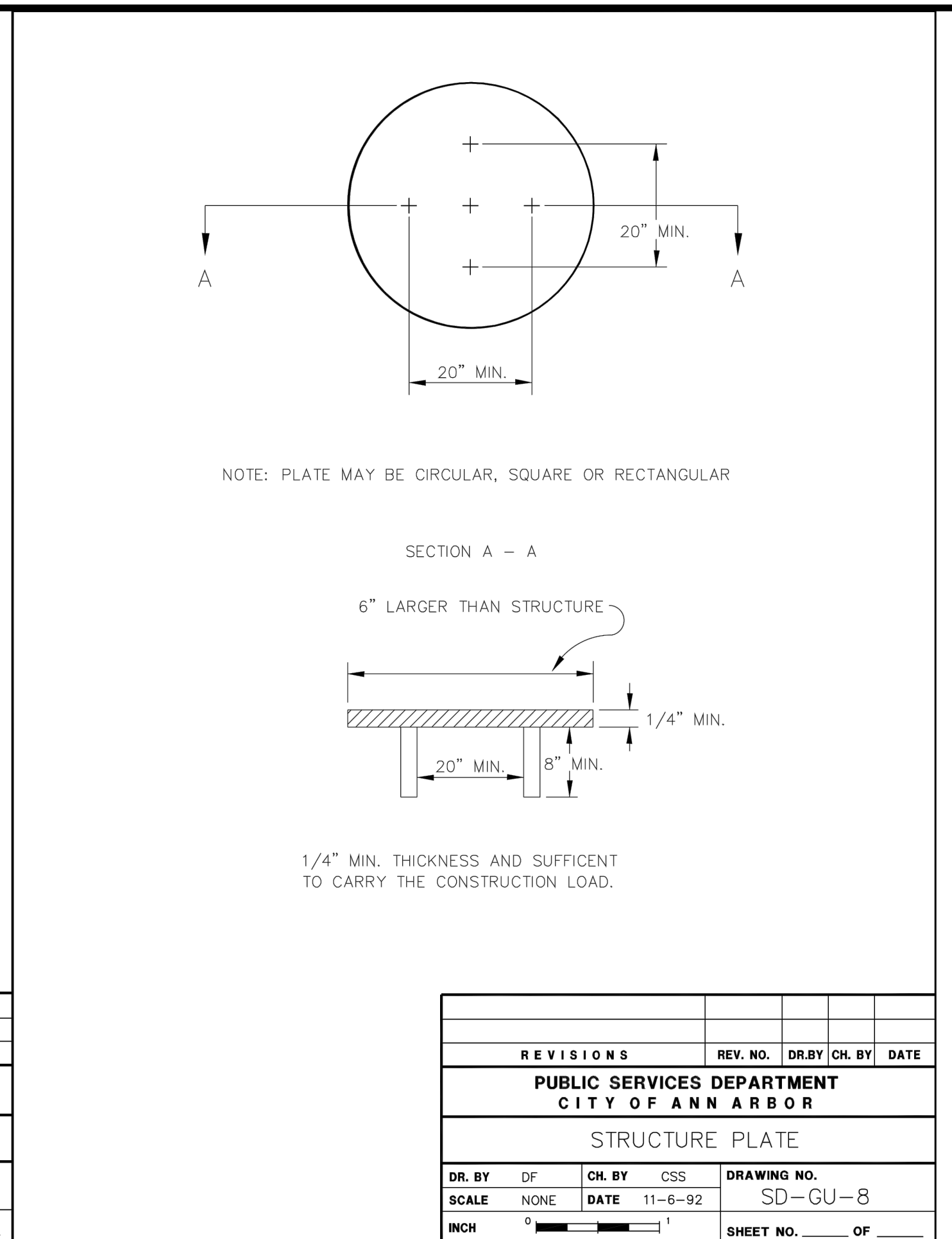
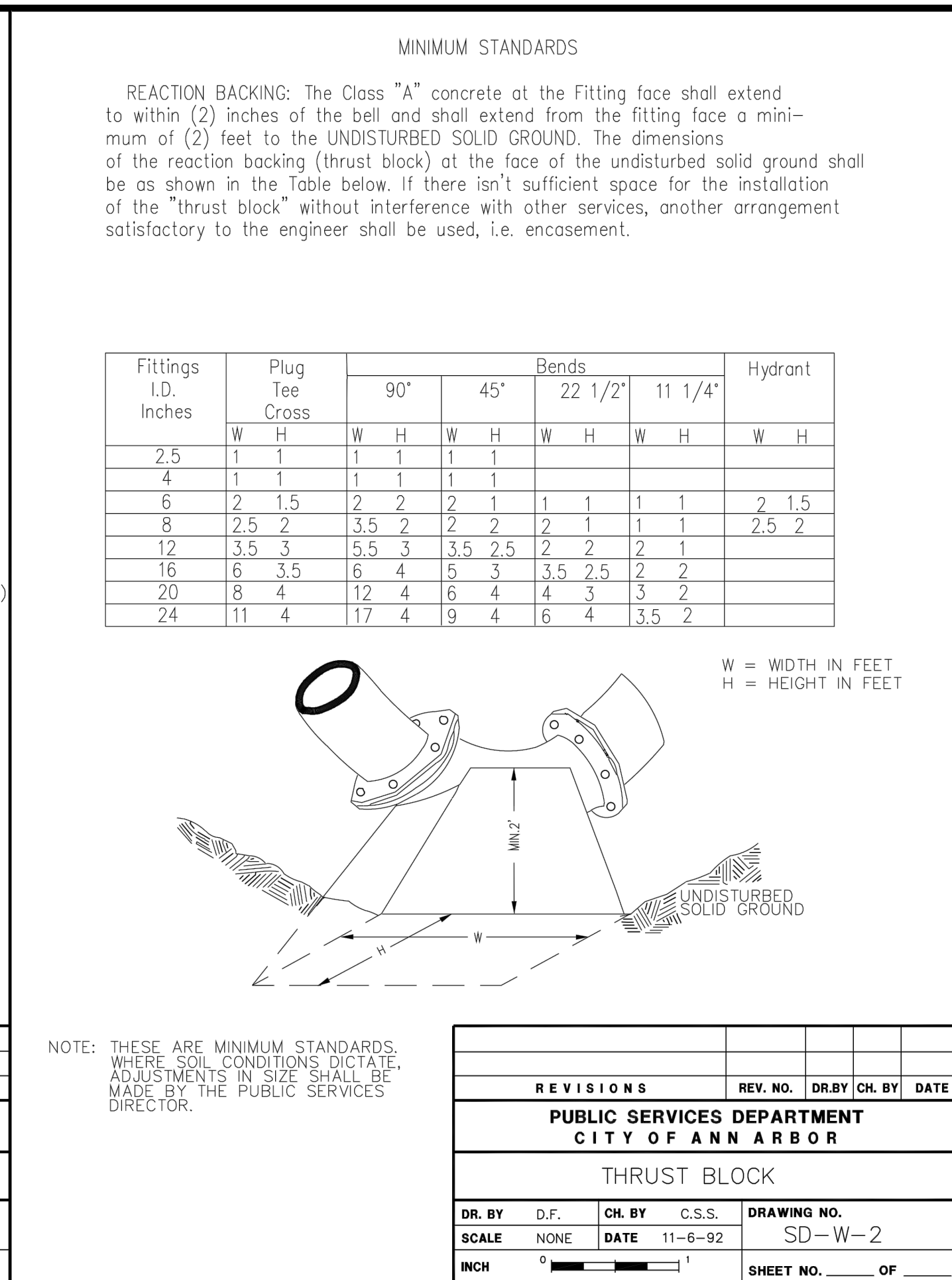
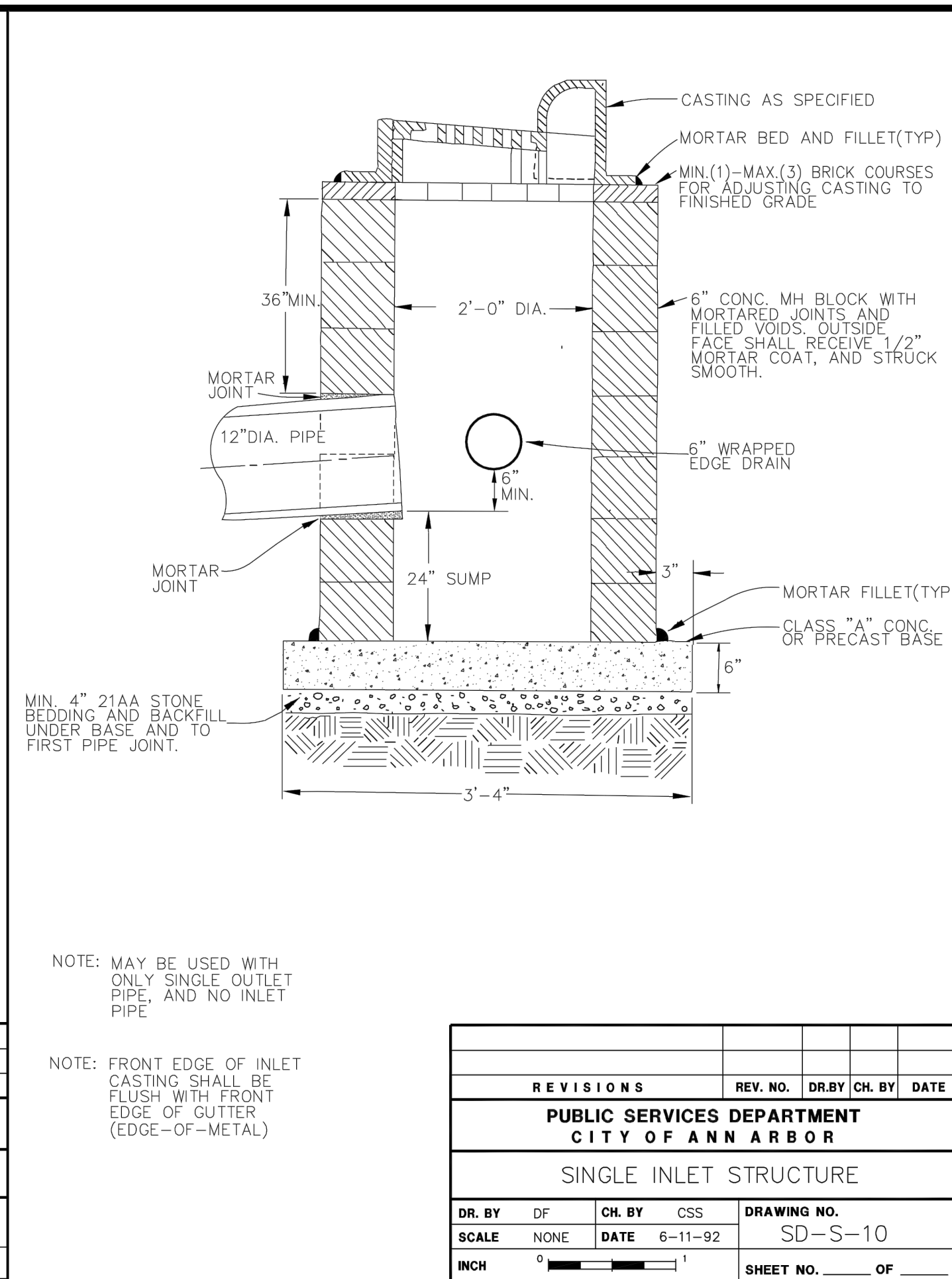
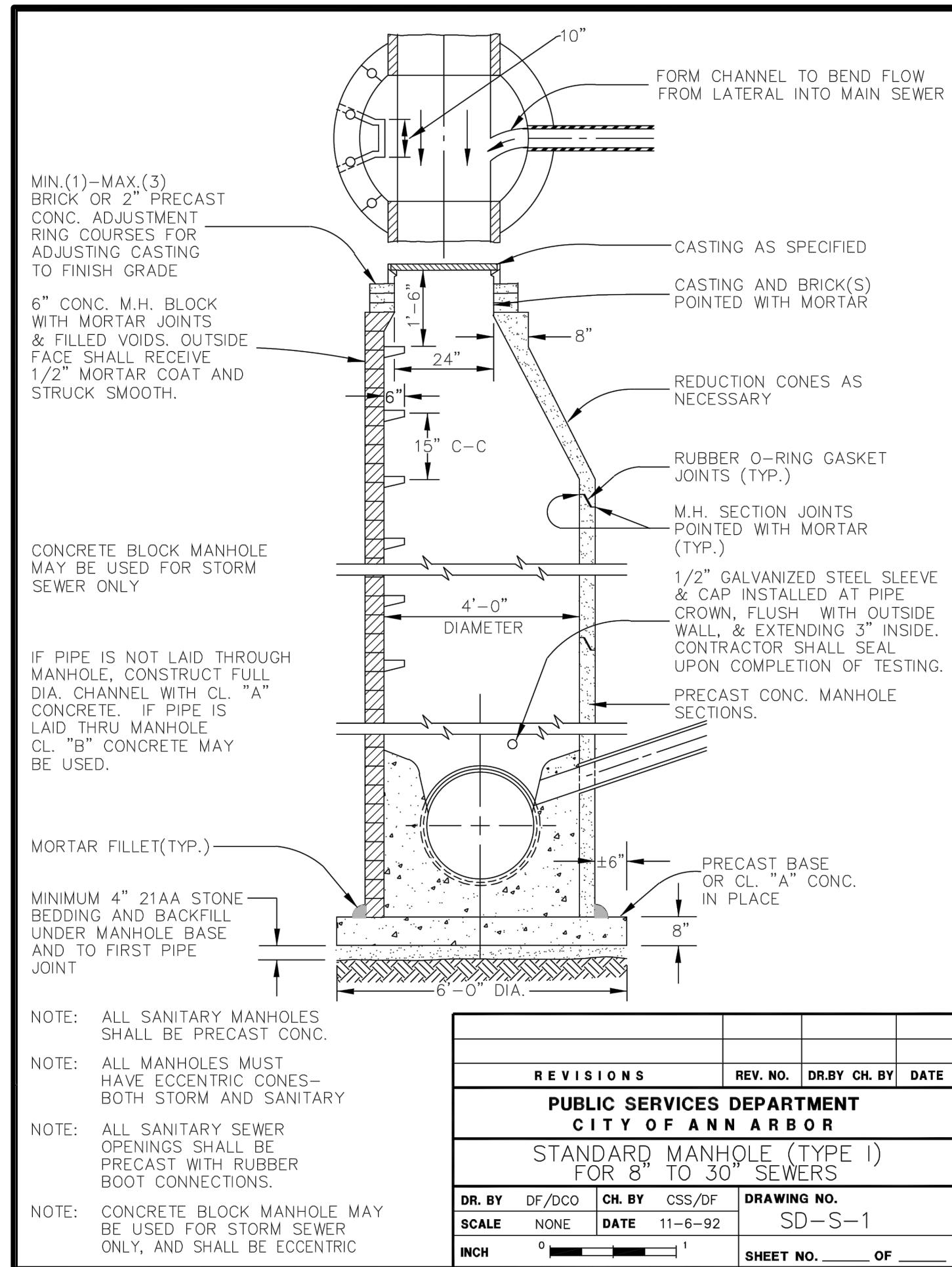
PK2	ML2	1/12/2023	ADDENDUM 1	04	REV.	DATE	DESCRIPTION
PK2	ML2	12/16/2022	ISSUED FOR BIDS	03	02		
PK2	ML2	7/15/2022	100% OWNER REVIEW	01	00		
PK2	ML2	6/16/2022	95% OWNER REVIEW				
PK2	ML2	5/26/2022	60% OWNER REVIEW				



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROADWAY STREET WATER MAIN

SCALE: NTS
DRAWING No. 2020030-11
SHEET No. 11 OF 50

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

ADDENDUM 1

PK2	ML2	1/12/2023	PK2	ML2	12/16/2022	PK2	ML2	7/15/2022	PK2	ML2	6/16/2022	PK2	ML2	5/26/2022	DATE	CHECKED

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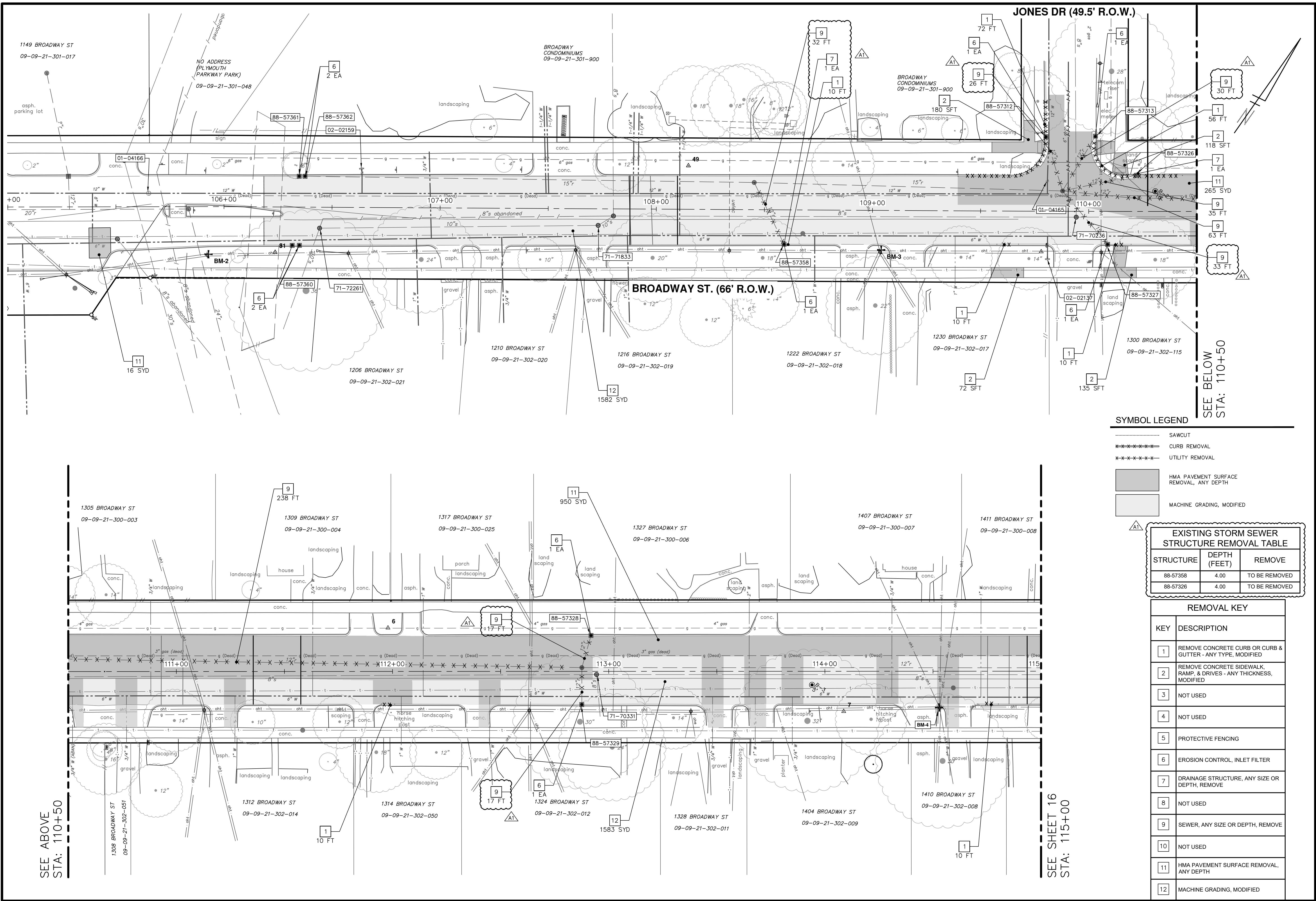
CITY OF ANN ARBOR
PUBLIC SERVICES - ENGINEERING
BROADWAY STREET WATER MAIN
DETAILS_2

SCALE: NTS

DRAWING NO. 2020030-12

SHEET NO. 12 OF 50

Z:\2021\211210\CAD\CD\211210_removals.dwg Dwg Created: 13-Jan-23 - _a2 standard bw.stb - Plot Date: 13-Jan-23



SYMBOL LEGEND

- SAWCUT
- ***** CURB REMOVAL
- ***** UTILITY REMOVAL
- HMA PAVEMENT SURFACE REMOVAL, ANY DEPTH
- MACHINE GRADING, MODIFIED

EXISTING STORM SEWER STRUCTURE REMOVAL TABLE		
STRUCTURE	DEPTH (FEET)	REMOVE
88-57358	4.00	TO BE REMOVED
88-57326	4.00	TO BE REMOVED

REMOVAL KEY	
KEY	DESCRIPTION
1	REMOVE CONCRETE CURB OR CURB & GUTTER - ANY TYPE, MODIFIED
2	REMOVE CONCRETE SIDEWALK, RAMP, & DRIVES - ANY THICKNESS, MODIFIED
3	NOT USED
4	NOT USED
5	PROTECTIVE FENCING
6	EROSION CONTROL, INLET FILTER
7	DRAINAGE STRUCTURE, ANY SIZE OR DEPTH, REMOVE
8	NOT USED
9	SEWER, ANY SIZE OR DEPTH, REMOVE
10	NOT USED
11	HMA PAVEMENT SURFACE REMOVAL, ANY DEPTH
12	MACHINE GRADING, MODIFIED

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

PK2 ML2 1/12/2023
PK2 ML2 12/16/2022
PK2 ML2 7/15/2022
PK2 ML2 6/16/2022
PK2 ML2 5/26/2022

ADDDUM 1
03 ISSUED FOR BIDS
02 100% OWNER REVIEW
01 95% OWNER REVIEW
00 60% OWNER REVIEW

REV. DATE DESCRIPTION

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ANN ARBOR MI 48106-6647
www.a2gov.org

CITY OF ANN ARBOR MICHIGAN

CITY OF ANN ARBOR - ENGINEERING
BROADWAY STREET WATER MAIN
PROPOSED REMOVALS

STA. 106+00 TO STA. 115+00

SHEET No. 15 OF 50

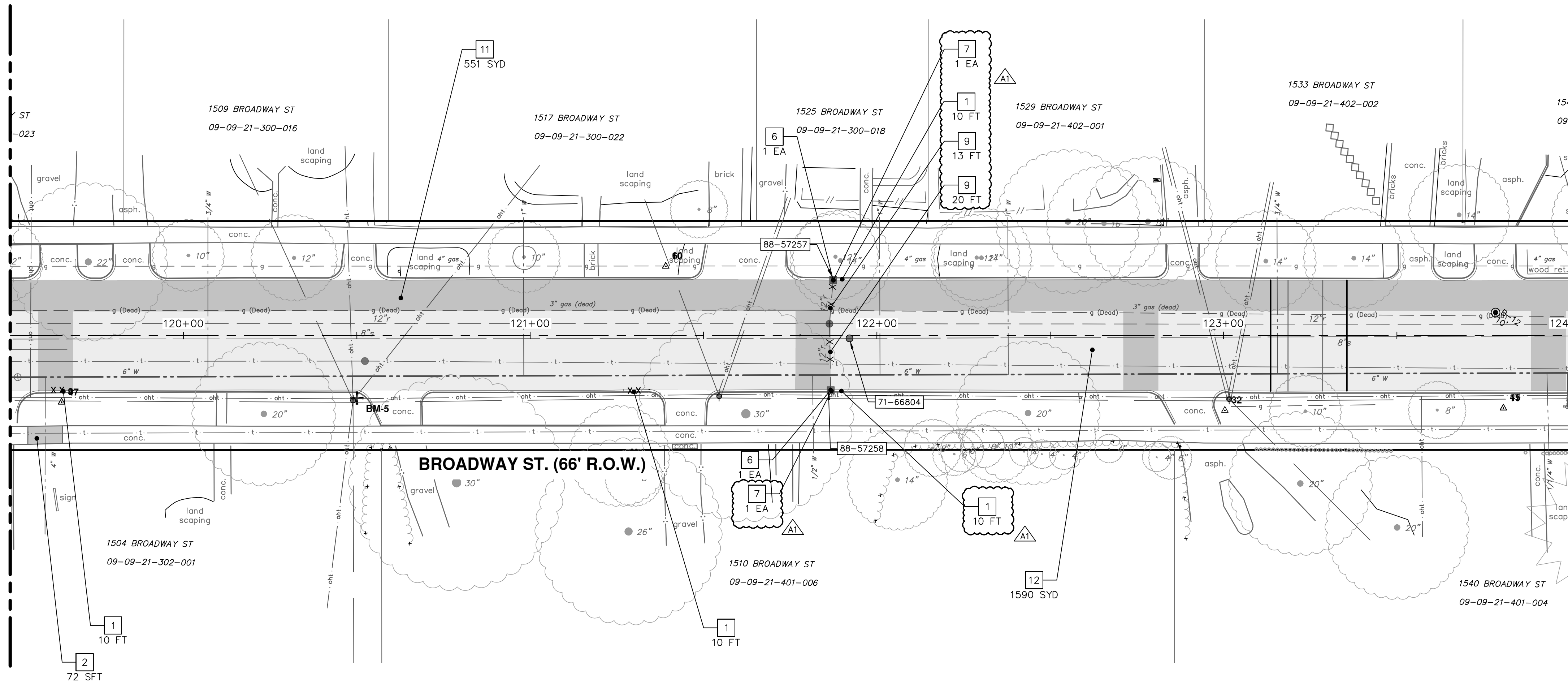
DRAWING No. 2020030-15

SEE ABOVE
STA: 110+50

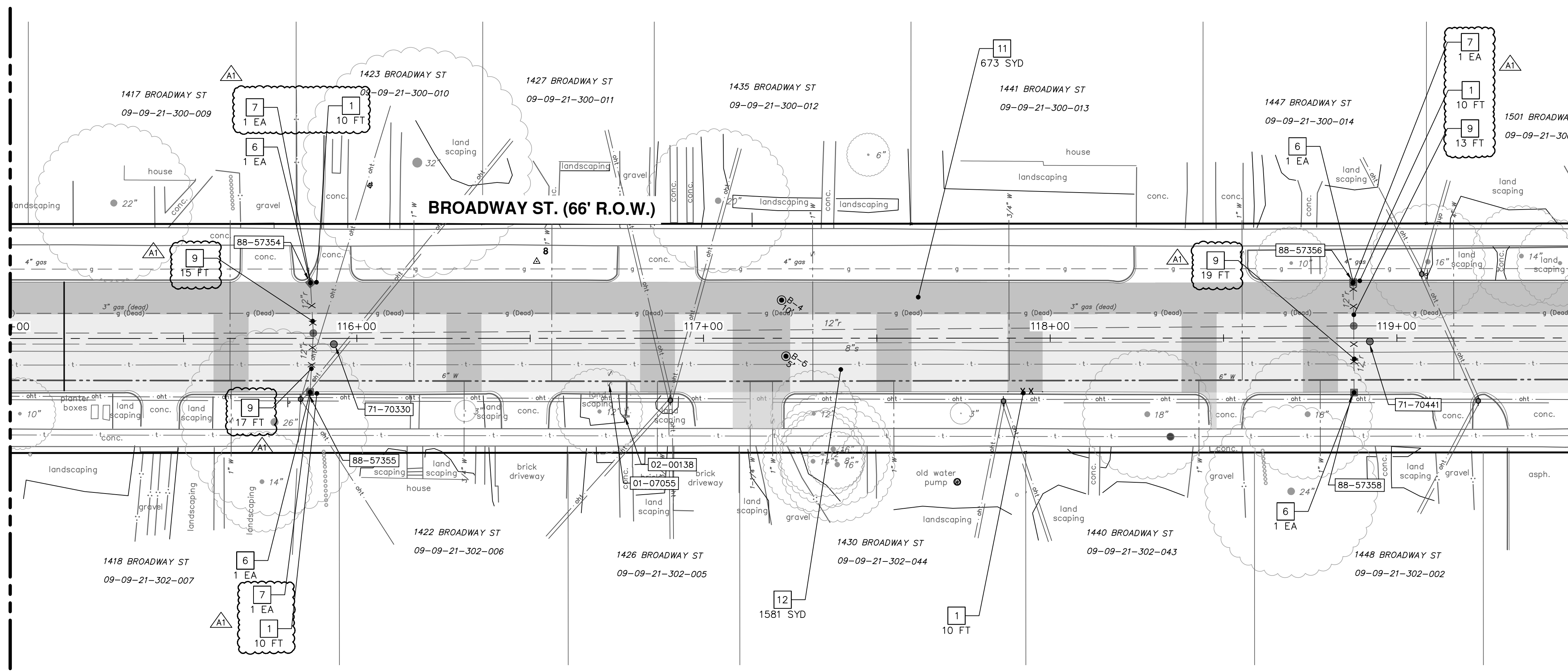
SEE SHEET 16
STA: 115+00

SEE ABOVE
STA: 119+50

SEE SHEET 15
STA: 115+00



SEE SHEET 17
STA: 124+00



SEE BELOW
STA: 119+50

SYMBOL LEGEND

	SAWCUT
	CURB REMOVAL
	UTILITY REMOVAL
	HMA PAVEMENT SURFACE REMOVAL, ANY DEPTH
	MACHINE GRADING, MODIFIED

EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

STRUCTURE	DEPTH (FEET)	REMOVE
88-57354	4.00	TO BE REMOVED
88-57355	4.00	TO BE REMOVED
88-57356	4.00	TO BE REMOVED
88-57257	4.00	TO BE REMOVED
88-57258	4.00	TO BE REMOVED

REMOVAL KEY

KEY	DESCRIPTION
1	REMOVE CONCRETE CURB OR CURB & GUTTER - ANY TYPE, MODIFIED
2	REMOVE CONCRETE SIDEWALK, RAMP, & DRIVES - ANY THICKNESS, MODIFIED
3	NOT USED
4	NOT USED
5	PROTECTIVE FENCING
6	EROSION CONTROL, INLET FILTER
7	DRAINAGE STRUCTURE, ANY SIZE OR DEPTH, REMOVE
8	NOT USED
9	SEWER, ANY SIZE OR DEPTH, REMOVE
10	NOT USED
11	HMA PAVEMENT SURFACE REMOVAL, ANY DEPTH
12	MACHINE GRADING, MODIFIED

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROADWAY STREET WATER MAIN
PROPOSED REMOVALS
STA. 115+00 TO STA. 124+00

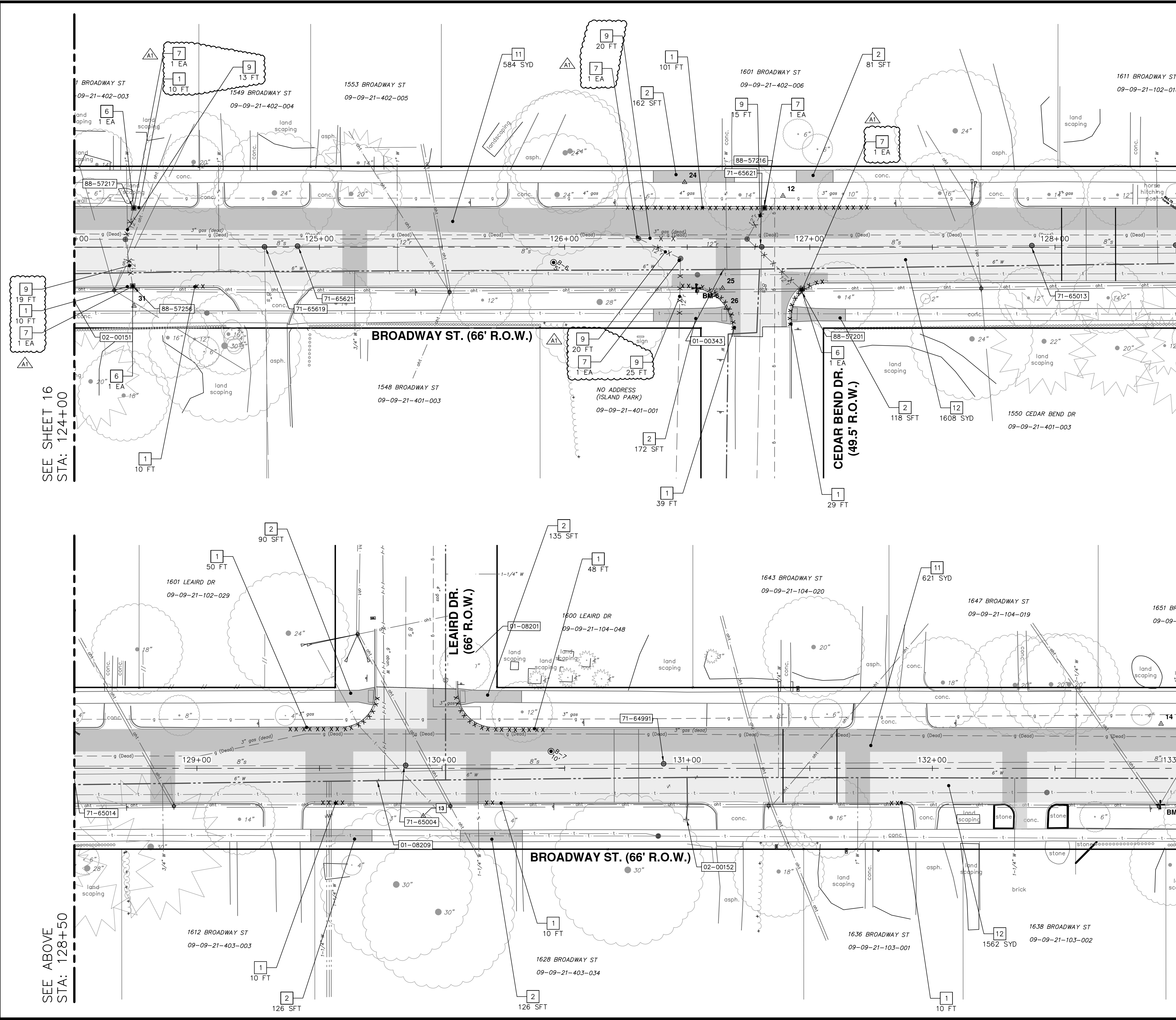
SHEET No. 16 OF 50

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

PK2	ML2	DATE	DESCRIPTION	REV.
04	ADDENDUM 1	1/12/2023	ISSUED FOR BIDS	
03	02	12/16/2022	100% OWNER REVIEW	
02	01	7/15/2022	95% OWNER REVIEW	
01	00	6/16/2022	60% OWNER REVIEW	

CITY OF ANN ARBOR
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www.a2gov.org

DRAWING No. 2020030-16



SEE SHEET 16
STA: 124+00

SEE BELOW
STA: 128+50

SEE SHEET 18
STA: 133+00

SEE ABOVE
STA: 128+50

SYMBOL LEGEND

	SAWCUT
	CURB REMOVAL
	UTILITY REMOVAL
	HMA PAVEMENT SURFACE REMOVAL, ANY DEPTH
	MACHINE GRADING, MODIFIED

EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

STRUCTURE	DEPTH (FEET)	REMOVE
88-57256	4.00	TO BE REMOVED
88-57217	4.00	TO BE REMOVED
88-57216	4.00	TO BE REMOVED
88-57201	4.00	TO BE REMOVED

REMOVAL KEY

KEY	DESCRIPTION
1	REMOVE CONCRETE CURB OR CURB & GUTTER - ANY TYPE, MODIFIED
2	REMOVE CONCRETE SIDEWALK, RAMP, & DRIVES - ANY THICKNESS, MODIFIED
3	NOT USED
4	NOT USED
5	PROTECTIVE FENCING
6	EROSION CONTROL, INLET FILTER
7	DRAINAGE STRUCTURE, ANY SIZE OR DEPTH, REMOVE
8	NOT USED
9	SEWER, ANY SIZE OR DEPTH, REMOVE
10	NOT USED
11	HMA PAVEMENT SURFACE REMOVAL, ANY DEPTH
12	MACHINE GRADING, MODIFIED

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

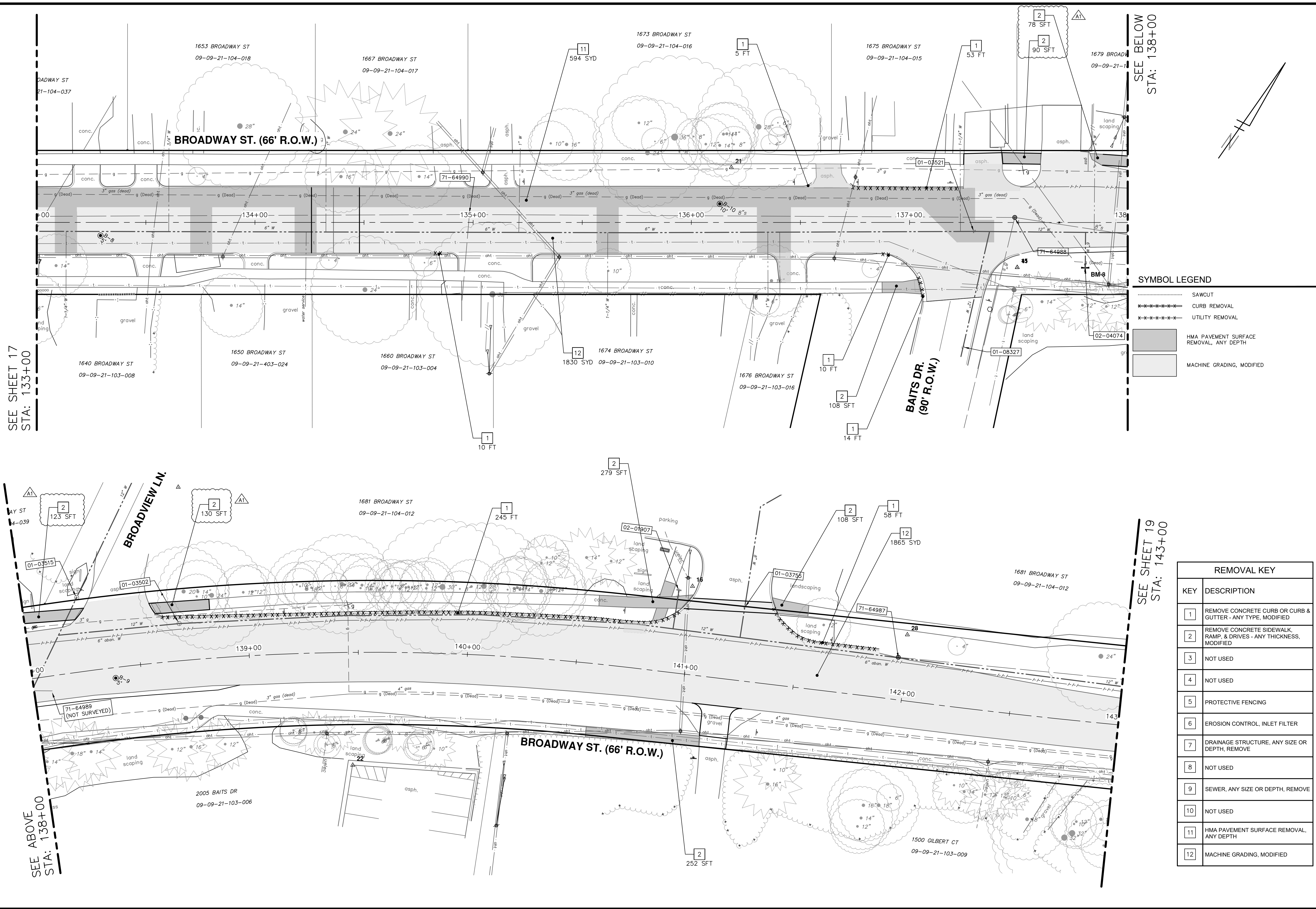
PK2	ML2	DATE	DESCRIPTION
04	ADDENDUM 1	1/12/2023	
03	ISSUED FOR BIDS	12/16/2022	
02	100% OWNER REVIEW	7/15/2022	
01	95% OWNER REVIEW	6/16/2022	
00	60% OWNER REVIEW	5/26/2022	

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROADWAY STREET WATER MAIN
PROPOSED REMOVALS
STA. 124+00 TO STA. 133+00

SHEET No. 17 OF 50

SCALE PLAN: 1" = 20'
DRAWING No. 2020030-17

Z:\2021\211210\CAD\CD\211210_removals.dwg Dwg Created: 13-Jan-23 - _a2 standard bw.stb - Plot Date: 13-Jan-23



SEE SHEET 17
STA: 133+00

SEE BELOW
STA: 138+00

SYMBOL LEGEND

	SAWCUT
	CURB REMOVAL
	UTILITY REMOVAL
	HMA PAVEMENT SURFACE REMOVAL, ANY DEPTH
	MACHINE GRADING, MODIFIED

REMOVAL KEY

KEY	DESCRIPTION
1	REMOVE CONCRETE CURB OR CURB & GUTTER - ANY TYPE, MODIFIED
2	REMOVE CONCRETE SIDEWALK, RAMP, & DRIVES - ANY THICKNESS, MODIFIED
3	NOT USED
4	NOT USED
5	PROTECTIVE FENCING
6	EROSION CONTROL, INLET FILTER
7	DRAINAGE STRUCTURE, ANY SIZE OR DEPTH, REMOVE
8	NOT USED
9	SEWER, ANY SIZE OR DEPTH, REMOVE
10	NOT USED
11	HMA PAVEMENT SURFACE REMOVAL, ANY DEPTH
12	MACHINE GRADING, MODIFIED

SEE ABOVE
STA: 138+00

SEE SHEET 19
STA: 143+00

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

PK2	ML2	DATE	DESCRIPTION	REV.
04	ADDENDUM 1			
03	ISSUED FOR BIDS	1/12/2023		
02	100% OWNER REVIEW	12/16/2022		
01	95% OWNER REVIEW	7/15/2022		
00	60% OWNER REVIEW	6/16/2022		
	DRAWN	5/26/2022		

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROADWAY STREET WATER MAIN
 PROPOSED REMOVALS

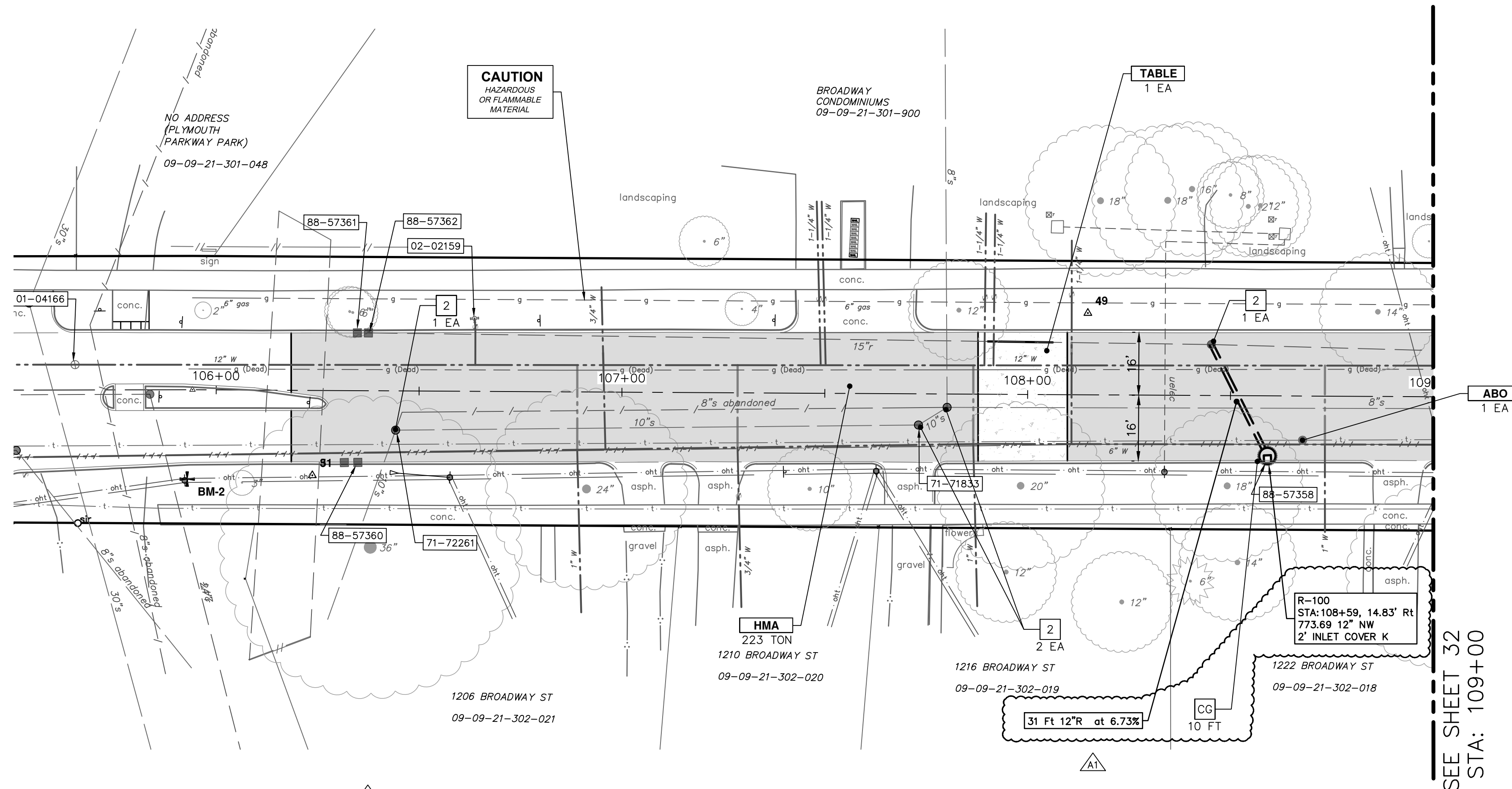
STA. 133+00 TO STA. 143+00

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CITY OF ANN ARBOR
MICHIGAN

SHEET No. 18 OF 50

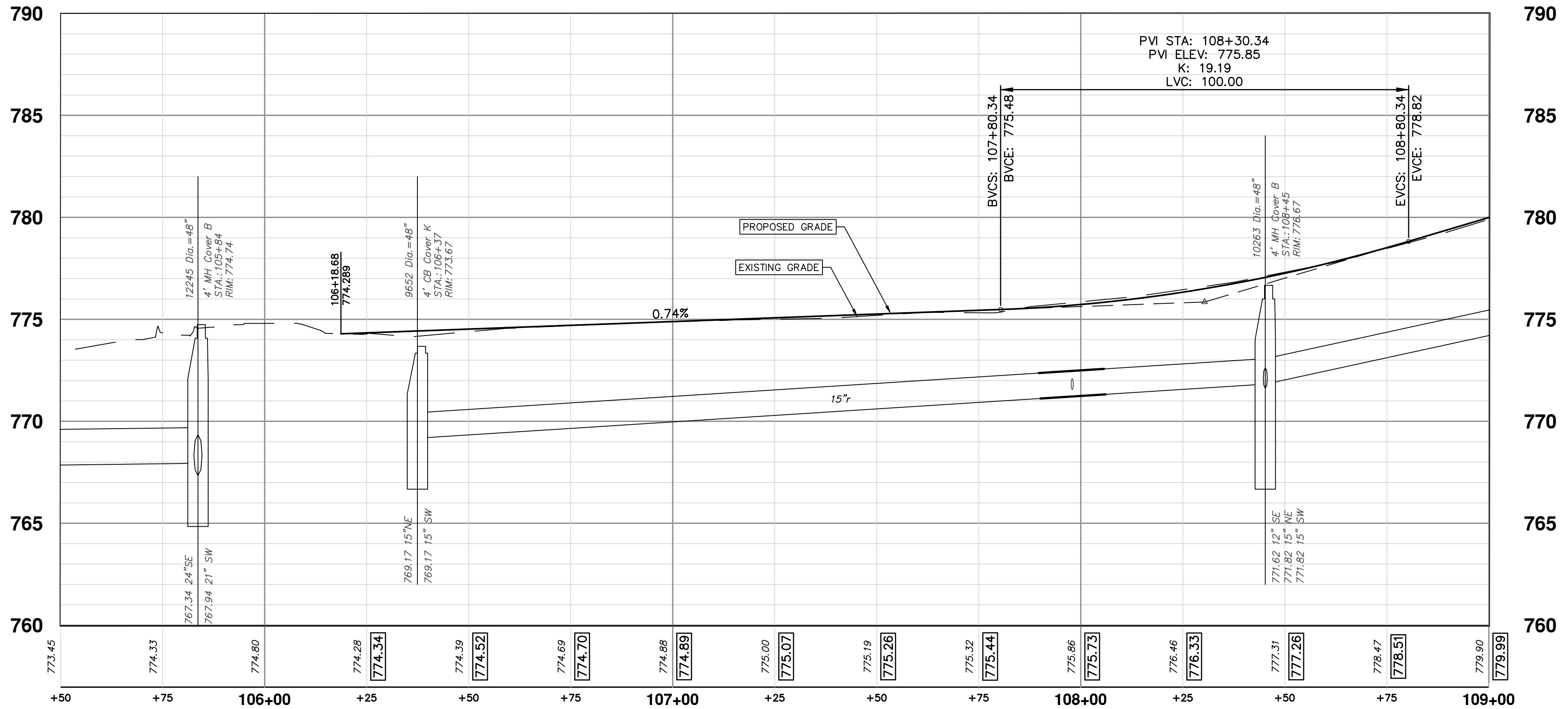
DRAWING No. 2020030-18



- NOTES**
- PLACE 5' EDGE DRAIN STUBS W/ PLUGGED ENDS IN EACH INLET STRUCTURE. BACKFILL WITH MDOT CL II GRANULAR MATERIAL COMPACTED TO 95% OF ITS MAX. DRY DENSITY. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE OF THE STRUCTURE BEING CONSTRUCTED.

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	HMA, LVSP - PAVEMENT LEVELING/TOP COURSE
HMA APP	NOT USED
CG	CONCRETE CURB OR CURB & GUTTER - ANY TYPE
DO-M	NOT USED
DC-6	6 INCH CONCRETE DRIVE APPROACH - HIGH EARLY
SW-4	4 INCH CONCRETE SIDEWALK
SWR-6	6 INCH CONCRETE SIDEWALK OR SIDEWALK RAMP
DWS	DETECTABLE WARNING, CAST IN PLACE
ABO	ADJUST BY OTHERS
1	ADJUST MONUMENT BOX, VALVE BOX, OR GAS BOX
2	ADJUST STRUCTURE COVER
TABLE	CONCRETE SPEED TABLE
TURF	TURF ESTABLISHMENT

STRUCTURE AND SEWER TABLE							
STRUCTURE	STATION	OFFSET	STRUCTURE TYPE	COVER TYPE K (550 LB) B (300 LB)	12 INCH CL IV RCP, TR DET 1 (FT)	6" WRAPPED EDGE DRAIN (FT)	CURB AND GUTTER REMOVE AND REPLACE (FT)
R-100	108+59	14.83', RT	2' INLET	K	31	10	10



SEE SHEET 32
STA: 109+00

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

PK2	ML2	DATE	CHECKED
1/12/2023	ML2	1/12/2023	ML2
12/16/2022	ML2	12/16/2022	ML2
7/15/2022	ML2	7/15/2022	ML2
6/16/2022	ML2	6/16/2022	ML2
5/26/2022	ML2	5/26/2022	ML2

ADDENDUM 1

REV	DESCRIPTION
04	ISSUED FOR BIDS
03	100% OWNER REVIEW
02	95% OWNER REVIEW
01	60% OWNER REVIEW

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

BROADWAY STREET WATER MAIN

PROPOSED ROAD AND STORM

STA. 105+50 TO STA. 109+00

CITY OF ANN ARBOR
PUBLIC SERVICES
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ANN ARBOR, MI 48106-0864
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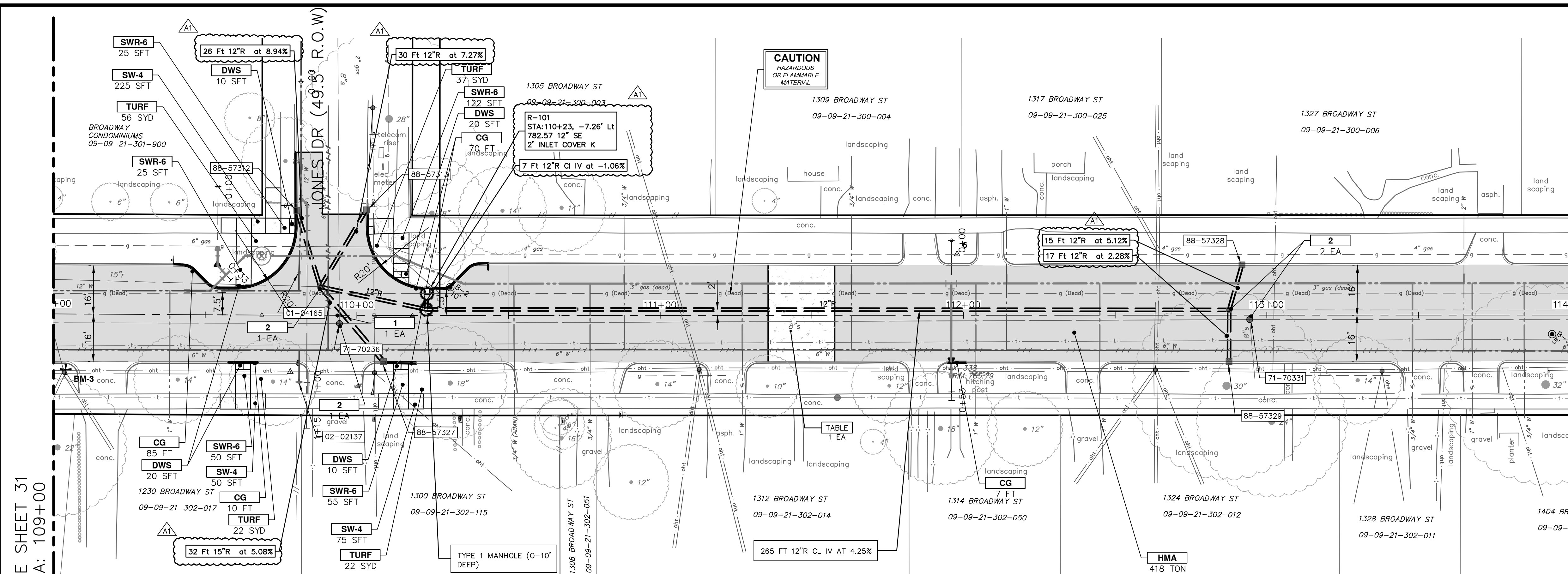
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

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

DRAWING No. 2020030-31

SHEET No. 31 OF 50

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NOTES

- PLACE 5' EDGE DRAIN STUBS W/ PLUGGED ENDS IN EACH INLET STRUCTURE. BACKFILL WITH MDOT CL II GRANULAR MATERIAL COMPACTED TO 95% OF ITS MAX. DRY DENSITY. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE OF THE STRUCTURE BEING CONSTRUCTED.

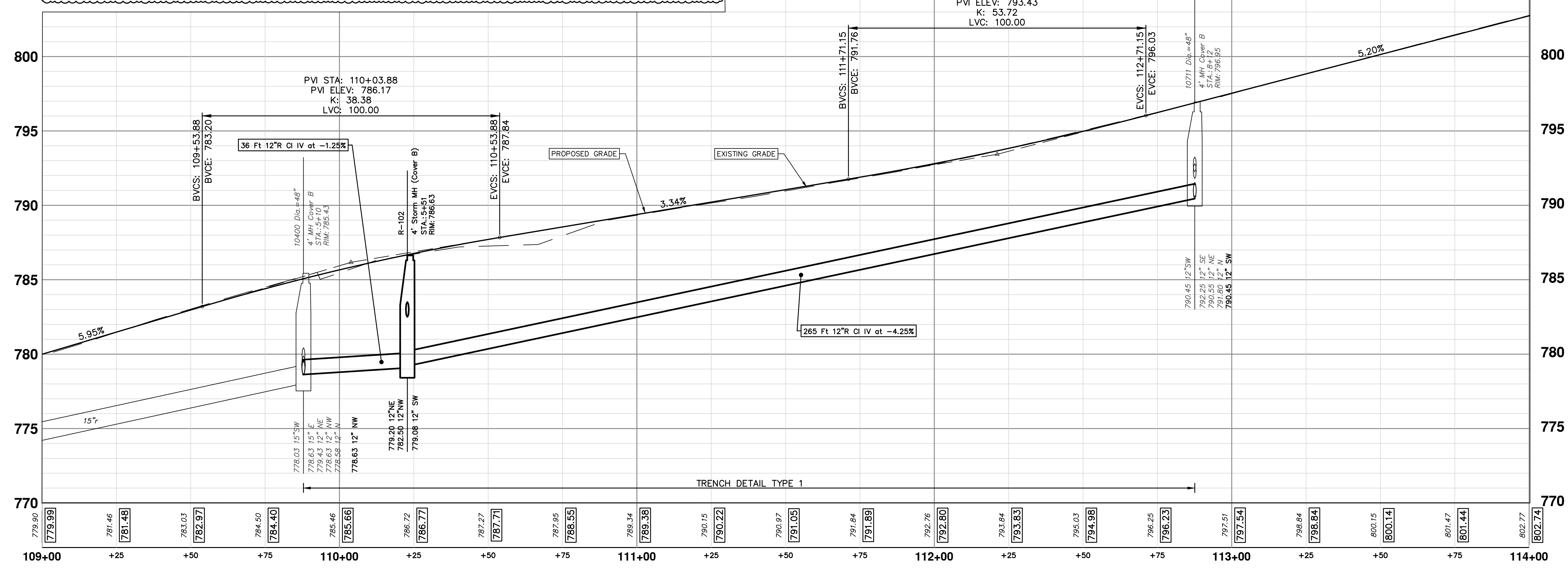
SEE SHEET 31
STA: 109+00

SEE SHEET 33
STA: 114+00


STRUCTURE AND SEWER TABLE

STRUCTURE	STATION	OFFSET	STRUCTURE TYPE	COVER TYPE K (550 LB) B (300 LB)	12 INCH, CL IV RCP, TR DET 1 (FT)	6" WRAPPED EDGE DRAIN (FT)	CURB AND GUTTER REMOVE AND REPLACE (FT)
R-101	110+23	7.26', LT	2' INLET	K	7	10	10
R-102	110+24	1.81', LT	4' MH	B	301	-	-

PVI STA: 112+21.15
PVI ELEV: 793.43
K: 53.72
LVC: 100.00




CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	HMA, LVSP - PAVEMENT LEVELING/TOP COURSE
HMA APP	NOT USED
CG	CONCRETE CURB OR CURB & GUTTER - ANY TYPE
DO-M	NOT USED
DC-6	6 INCH CONCRETE DRIVE APPROACH - HIGH EARLY
SW-4	4 INCH CONCRETE SIDEWALK
SWR-6	6 INCH CONCRETE SIDEWALK OR SIDEWALK RAMP
DWS	DETECTABLE WARNING, CAST IN PLACE
ABO	ADJUST BY OTHERS
1	ADJUST MONUMENT BOX, VALVE BOX, OR GAS BOX
2	ADJUST STRUCTURE COVER
TABLE	CONCRETE SPEED TABLE
TURF	TURF ESTABLISHMENT



Know what's below.
Call before you dig.

PK2	ML2	DATE	DESCRIPTION	REV.
04	ADDENDUM 1	1/12/2023	ISSUED FOR BIDS	04
03	02	12/16/2022	100% OWNER REVIEW	03
02	01	7/15/2022	95% OWNER REVIEW	02
01	00	6/16/2022	60% OWNER REVIEW	01
00		5/26/2022		00



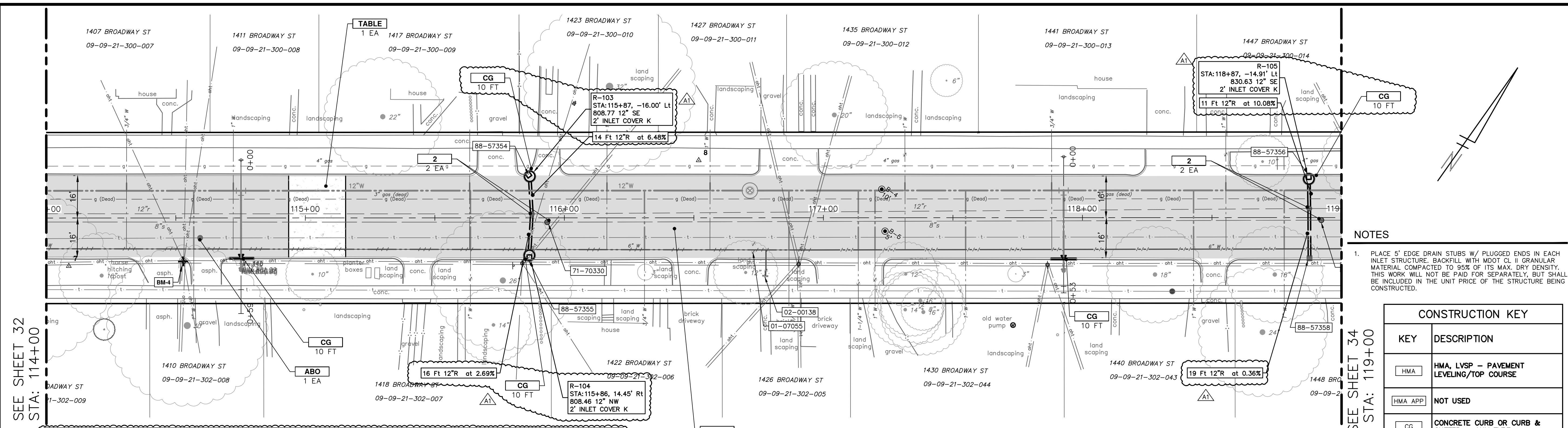
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROADWAY STREET WATER MAIN
PROPOSED ROAD AND STORM

STA. 109+00 TO STA. 114+00

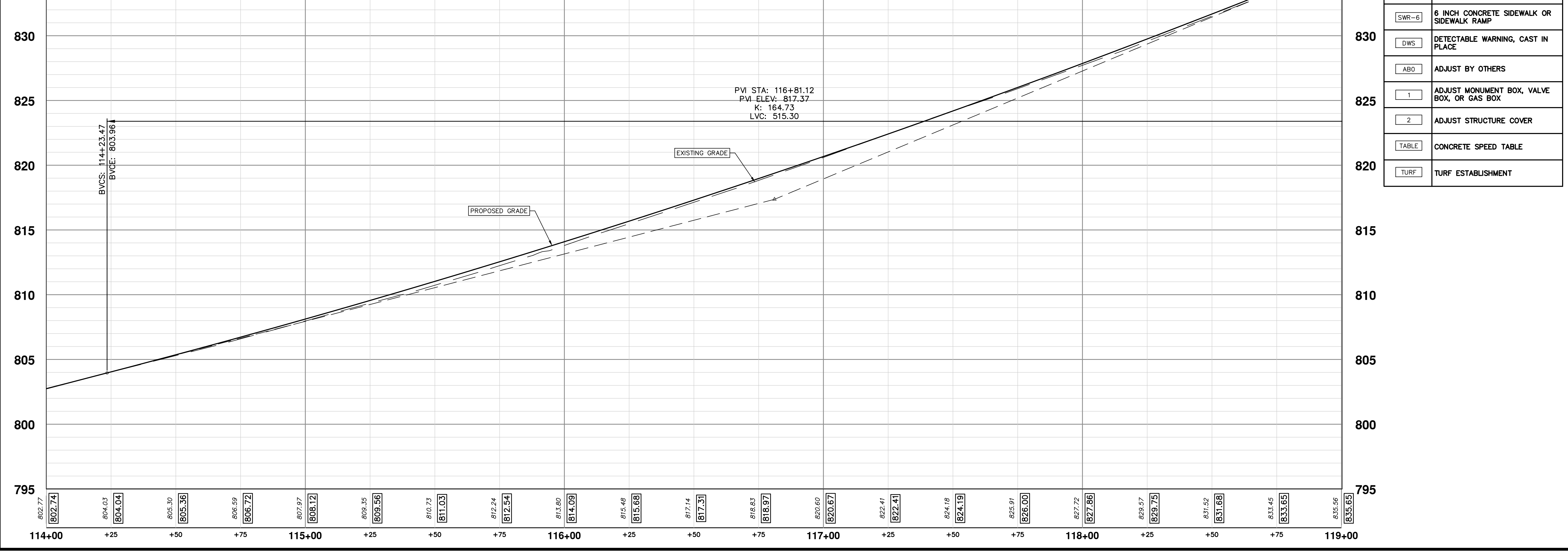
DRAWING No. 2020030-32

SHEET No. 32 OF 50

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STRUCTURE AND SEWER TABLE							
STRUCTURE	STATION	OFFSET	STRUCTURE TYPE	COVER TYPE K (550 LB) B (300 LB)	12 INCH CL IV RCP, TR DET 1 (FT)	6" WRAPPED EDGE DRAIN (FT)	CURB AND GUTTER REMOVE AND REPLACE (FT)
R-103	115+87	16.00', LT	2' INLET	K	14	10	10
R-104	115+86	14.45', RT	2' INLET	K	16	10	10
R-105	115+87	14.91', LT	2' INLET	K	11	10	10



- NOTES**
- PLACE 5' EDGE DRAIN STUBS W/ PLUGGED ENDS IN EACH INLET STRUCTURE. BACKFILL WITH MDOT CL II GRANULAR MATERIAL COMPACTED TO 95% OF ITS MAX. DRY DENSITY. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE OF THE STRUCTURE BEING CONSTRUCTED.

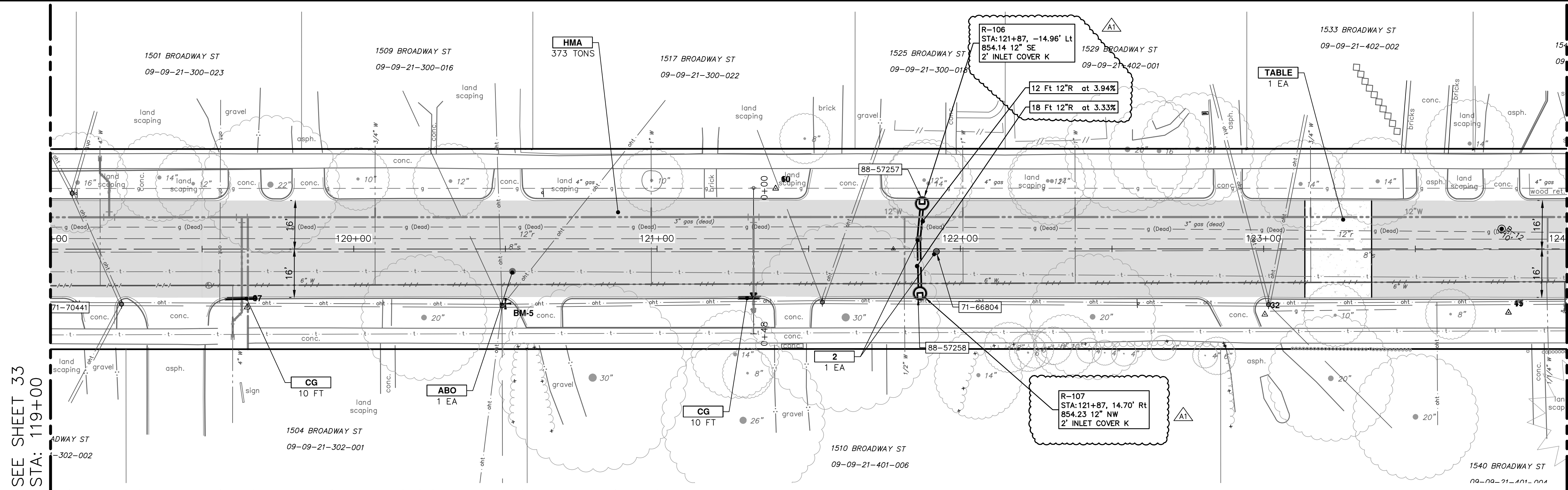
CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	HMA, LVSP - PAVEMENT LEVELING/TOP COURSE
HMA APP	NOT USED
CG	CONCRETE CURB OR CURB & GUTTER - ANY TYPE
DO-M	PLACE DRIVEWAY OPENING, CONC, DETAIL M, P-NC
DC-6	6 INCH CONCRETE DRIVE APPROACH - HIGH EARLY
SW-4	4 INCH CONCRETE SIDEWALK
SWR-6	6 INCH CONCRETE SIDEWALK OR SIDEWALK RAMP
DWS	DETECTABLE WARNING, CAST IN PLACE
ABO	ADJUST BY OTHERS
1	ADJUST MONUMENT BOX, VALVE BOX, OR GAS BOX
2	ADJUST STRUCTURE COVER
TABLE	CONCRETE SPEED TABLE
TURF	TURF ESTABLISHMENT

Know what's below. Call before you dig.

ADDITIONAL 1	1/12/2023	ML2	PK2	DRAWN	DATE	CHECKED
04	ISSUED FOR BIDS	ML2	PK2			
03	100% OWNER REVIEW	ML2	PK2			
02	95% OWNER REVIEW	ML2	PK2			
01	60% OWNER REVIEW	ML2	PK2			
00		ML2	PK2			

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROADWAY STREET WATER MAIN
 PROPOSED ROAD AND STORM
 STA. 114+00 TO STA. 119+00

SHEET No. **33 OF 50**

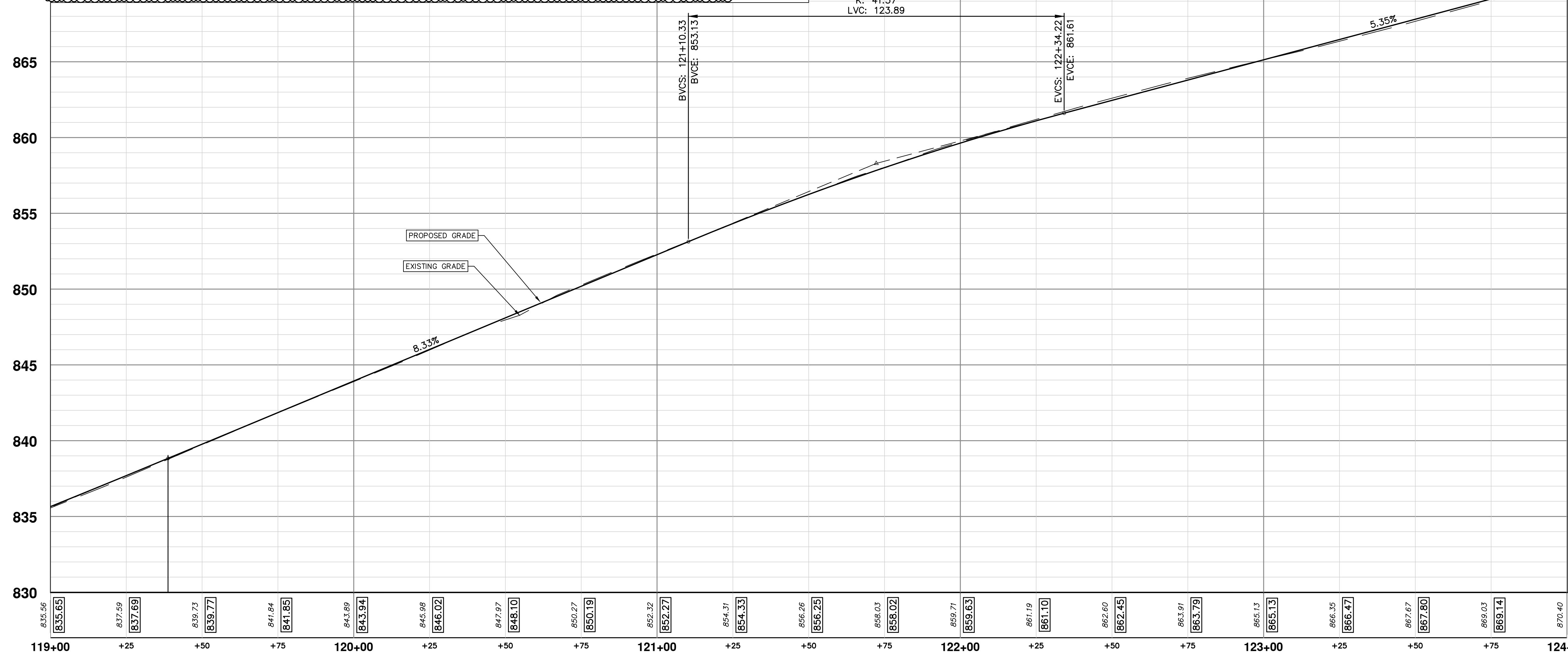


NOTES

- PLACE 5' EDGE DRAIN STUBS W/ PLUGGED ENDS IN EACH INLET STRUCTURE. BACKFILL WITH MDOT CL II GRANULAR MATERIAL COMPACTED TO 95% OF ITS MAX. DRY DENSITY. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE OF THE STRUCTURE BEING CONSTRUCTED.


STRUCTURE AND SEWER TABLE							
STRUCTURE	STATION	OFFSET	STRUCTURE TYPE	COVER TYPE K (550 LB) B (300 LB)	12 INCH, CL IV RCP, TR DET 1 (FT)	6" WRAPPED EDGE DRAIN (FT)	CURB AND GUTTER REMOVE AND REPLACE (FT)
R-106	121+87	14.96', LT	2' INLET	K	12	10	10
R-107	121+87	14.70', RT	2' INLET	K	18	10	10

PVI STA: 121+72.28
 PVI ELEV: 858.29
 K: 41.57
 LVC: 123.89




SEE SHEET 35
 STA: 124+00

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	HMA, LVSP - PAVEMENT LEVELING/TOP COURSE
HMA APP	NOT USED
CG	CONCRETE CURB OR CURB & GUTTER - ANY TYPE
DO-M	NOT USED
DC-6	6 INCH CONCRETE DRIVE APPROACH - HIGH EARLY
SW-4	4 INCH CONCRETE SIDEWALK
SWR-6	6 INCH CONCRETE SIDEWALK OR SIDEWALK RAMP
DWS	DETECTABLE WARNING, CAST IN PLACE
ABO	ADJUST BY OTHERS
1	ADJUST MONUMENT BOX, VALVE BOX, OR GAS BOX
2	ADJUST STRUCTURE COVER
TABLE	CONCRETE SPEED TABLE
TURF	TURF ESTABLISHMENT



Know what's below.
Call before you dig.

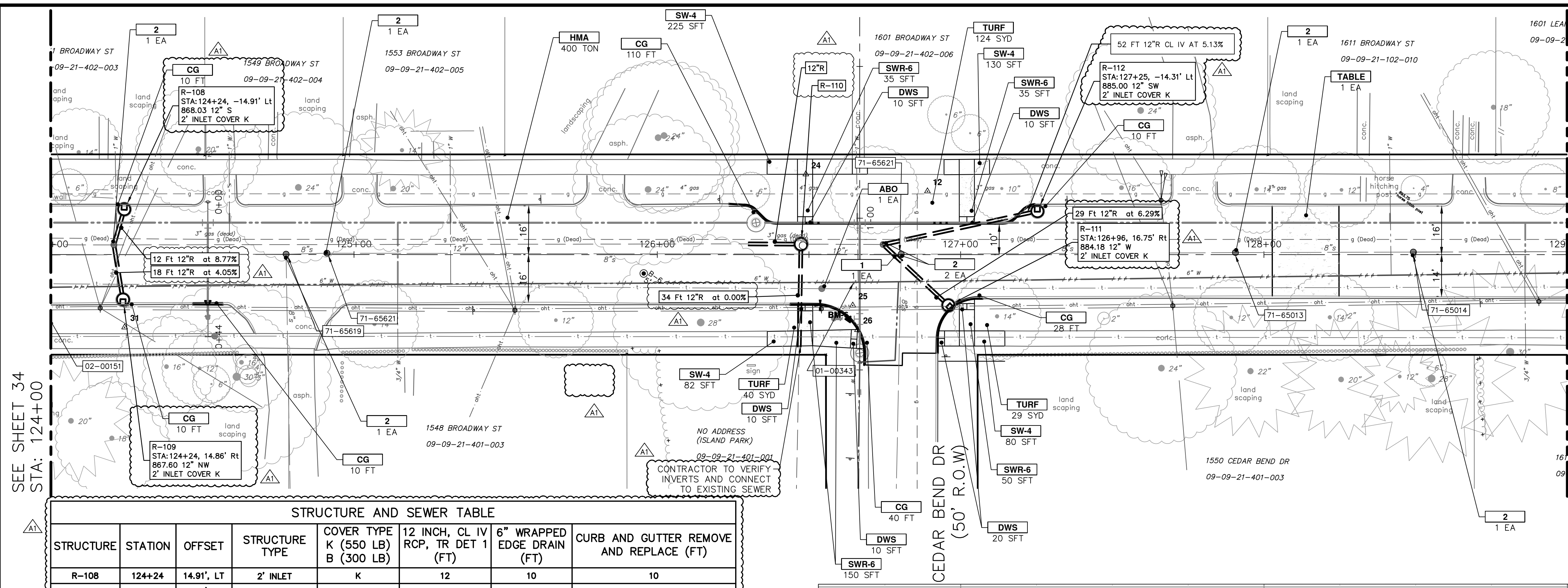
REV.	DATE	DESCRIPTION
04	ADDENDUM 1	
03	12/16/2022	ISSUED FOR BIDS
02	7/15/2022	100% OWNER REVIEW
01	6/16/2022	95% OWNER REVIEW
00	5/26/2022	60% OWNER REVIEW



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROADWAY STREET WATER MAIN
 PROPOSED ROAD AND STORM
 STA. 119+00 TO STA. 124+00

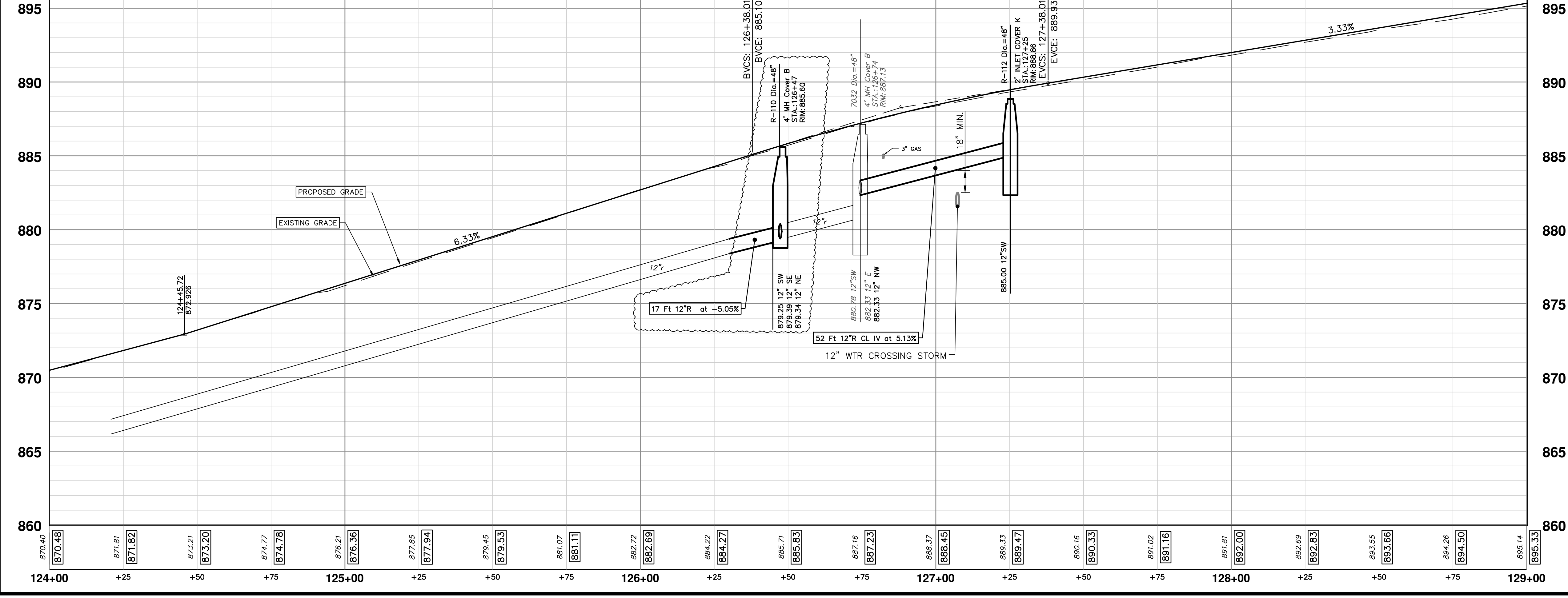
SHEET No. **34 OF 50**
 DRAWING No. **2020030-34**
 SCALE: PLAN: 1" = 20'
 PROFILE: 1" = 4'

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STRUCTURE AND SEWER TABLE

STRUCTURE	STATION	OFFSET	STRUCTURE TYPE	COVER TYPE K (550 LB) B (300 LB)	12 INCH, CL IV RCP, TR DET 1 (FT)	6" WRAPPED EDGE DRAIN (FT)	CURB AND GUTTER REMOVE AND REPLACE (FT)
R-108	124+24	14.91', LT	2' INLET	K	12	10	10
R-109	124+24	14.86', RT	2 INLET	K	18	10	10
R-110	126+47	2.95', LT	4' MH	B	51	-	-
R-111	126+96	16.75', RT	2' INLET	K	29	28	28
R-112	17+25	14.31', LT	2' INLET	K	52	10	10




NOTES

1. PLACE 5' EDGE DRAIN STUBS W/ PLUGGED ENDS IN EACH INLET STRUCTURE. BACKFILL WITH MDOT CL II GRANULAR MATERIAL COMPACTED TO 95% OF ITS MAX. DRY DENSITY. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE OF THE STRUCTURE BEING CONSTRUCTED.


CONSTRUCTION KEY

KEY	DESCRIPTION
HMA	HMA, LVSP - PAVEMENT LEVELING/TOP COURSE
HMA APP	NOT USED
CG	CONCRETE CURB OR CURB & GUTTER - ANY TYPE
DO-M	NOT USED
DC-6	6 INCH CONCRETE DRIVE APPROACH - HIGH EARLY
SW-4	4 INCH CONCRETE SIDEWALK
SWR-6	6 INCH CONCRETE SIDEWALK OR SIDEWALK RAMP
DWS	DETECTABLE WARNING, CAST IN PLACE
ABO	ADJUST BY OTHERS
1	ADJUST MONUMENT BOX, VALVE BOX, OR GAS BOX
2	ADJUST STRUCTURE COVER
TABLE	CONCRETE SPEED TABLE
TURF	TURF ESTABLISHMENT



Know what's below.
Call before you dig.

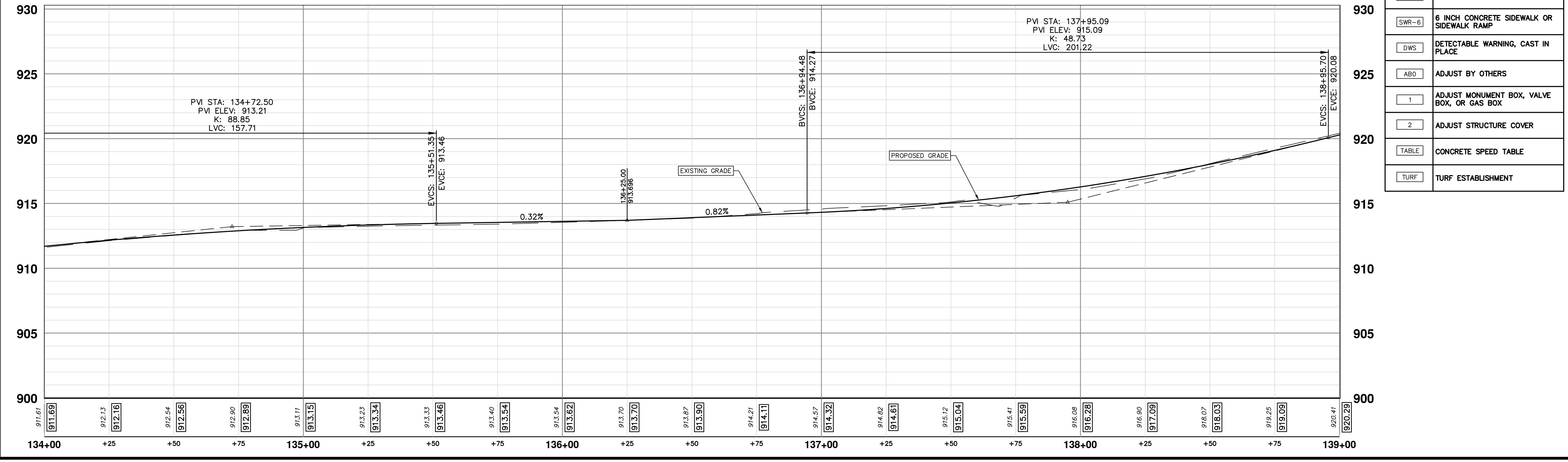
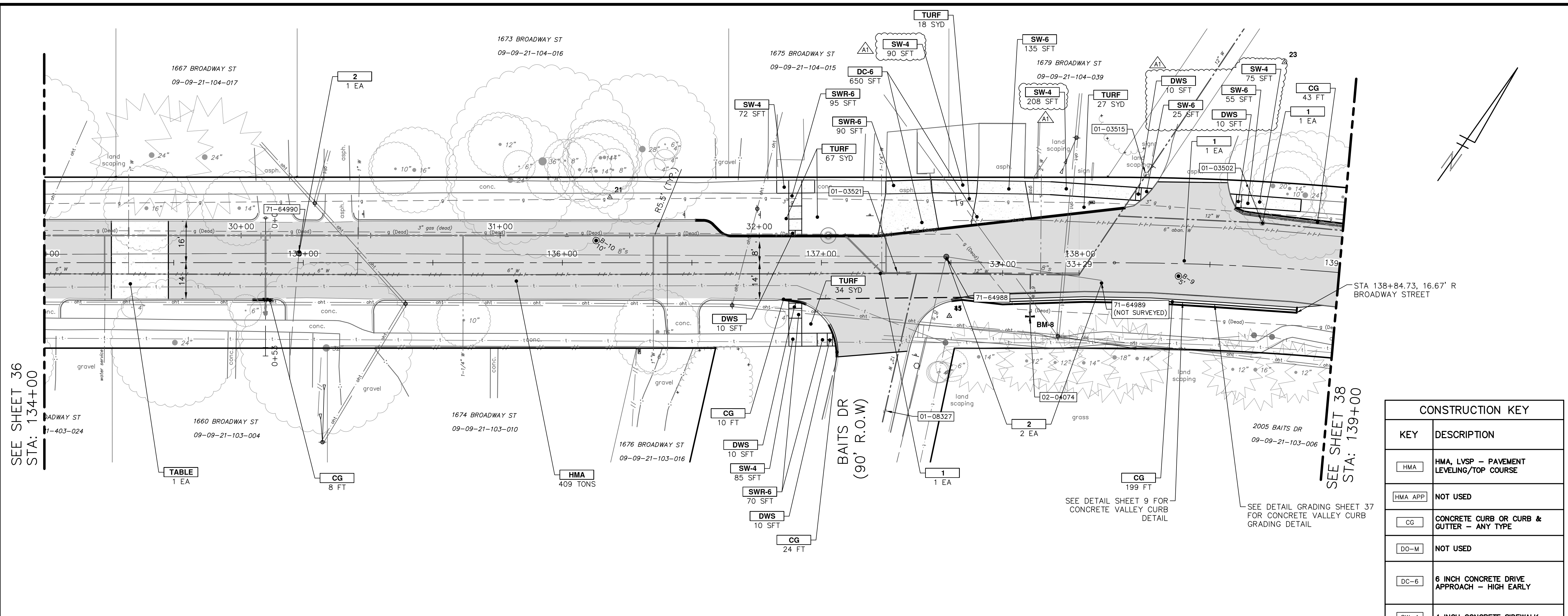
PK2	ML2	DATE	DESCRIPTION	REV.
04	ADDENDUM 1	1/12/2023		
03	ISSUED FOR BIDS	12/16/2022		
02	100% OWNER REVIEW	7/15/2022		
01	95% OWNER REVIEW	6/16/2022		
00	60% OWNER REVIEW	5/26/2022		




CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROADWAY STREET WATER MAIN
 PROPOSED ROAD AND STORM
 STA. 124+00 TO STA. 129+00

SHEET No. **35 OF 50**
 DRAWING No. **2020030-35**
 SCALE: PLAN: 1" = 20'
 PROFILE: 1" = 4'
 DATE: 1/13/2023

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CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	HMA, LVSP - PAVEMENT LEVELING/TOP COURSE
HMA APP	NOT USED
CG	CONCRETE CURB OR CURB & GUTTER - ANY TYPE
DO-M	NOT USED
DC-6	6 INCH CONCRETE DRIVE APPROACH - HIGH EARLY
SW-4	4 INCH CONCRETE SIDEWALK
SWR-6	6 INCH CONCRETE SIDEWALK OR SIDEWALK RAMP
DWS	DETECTABLE WARNING, CAST IN PLACE
ABO	ADJUST BY OTHERS
1	ADJUST MONUMENT BOX, VALVE BOX, OR GAS BOX
2	ADJUST STRUCTURE COVER
TABLE	CONCRETE SPEED TABLE
TURF	TURF ESTABLISHMENT



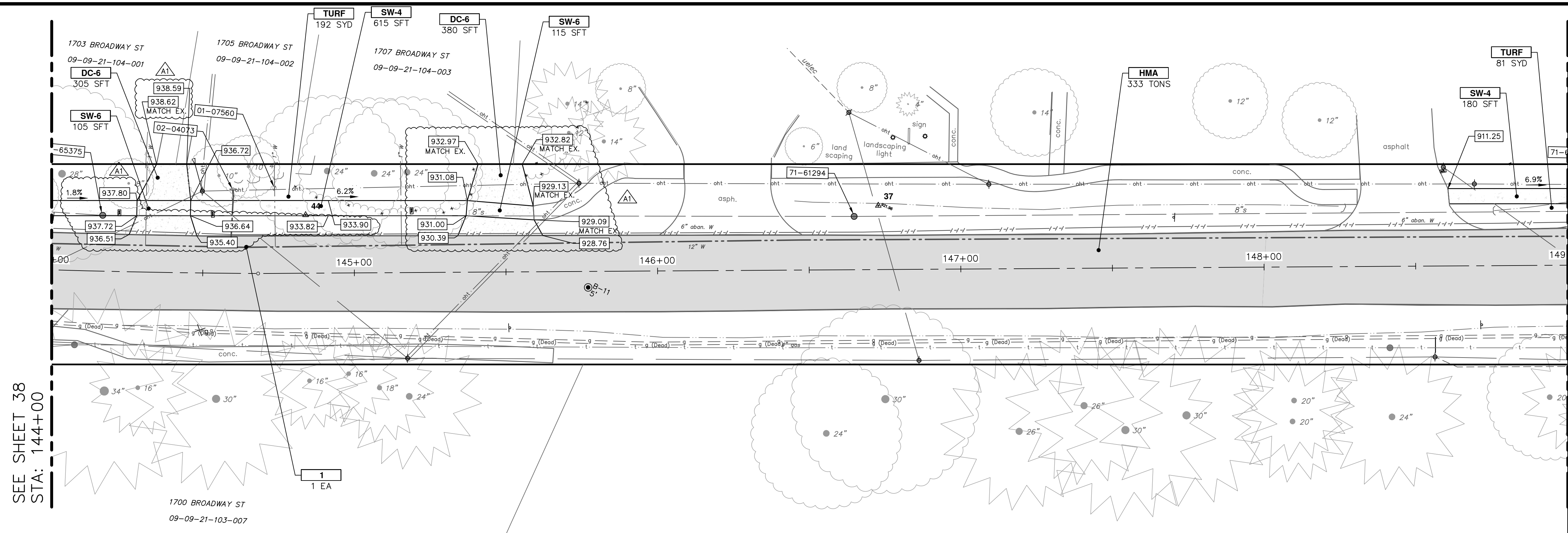
Know what's below.
Call before you dig.

PK2	ML2	DATE	DESCRIPTION	CHECKED
PK2	ML2	1/12/2023	ADDENDUM 1	
PK2	ML2	12/16/2022	ISSUED FOR BIDS	
PK2	ML2	7/15/2022	100% OWNER REVIEW	
PK2	ML2	6/16/2022	95% OWNER REVIEW	
PK2	ML2	5/26/2022	60% OWNER REVIEW	
PK2	ML2		DRAWN	
PK2	ML2		DATE	
PK2	ML2		DESCRIPTION	
PK2	ML2		REV	



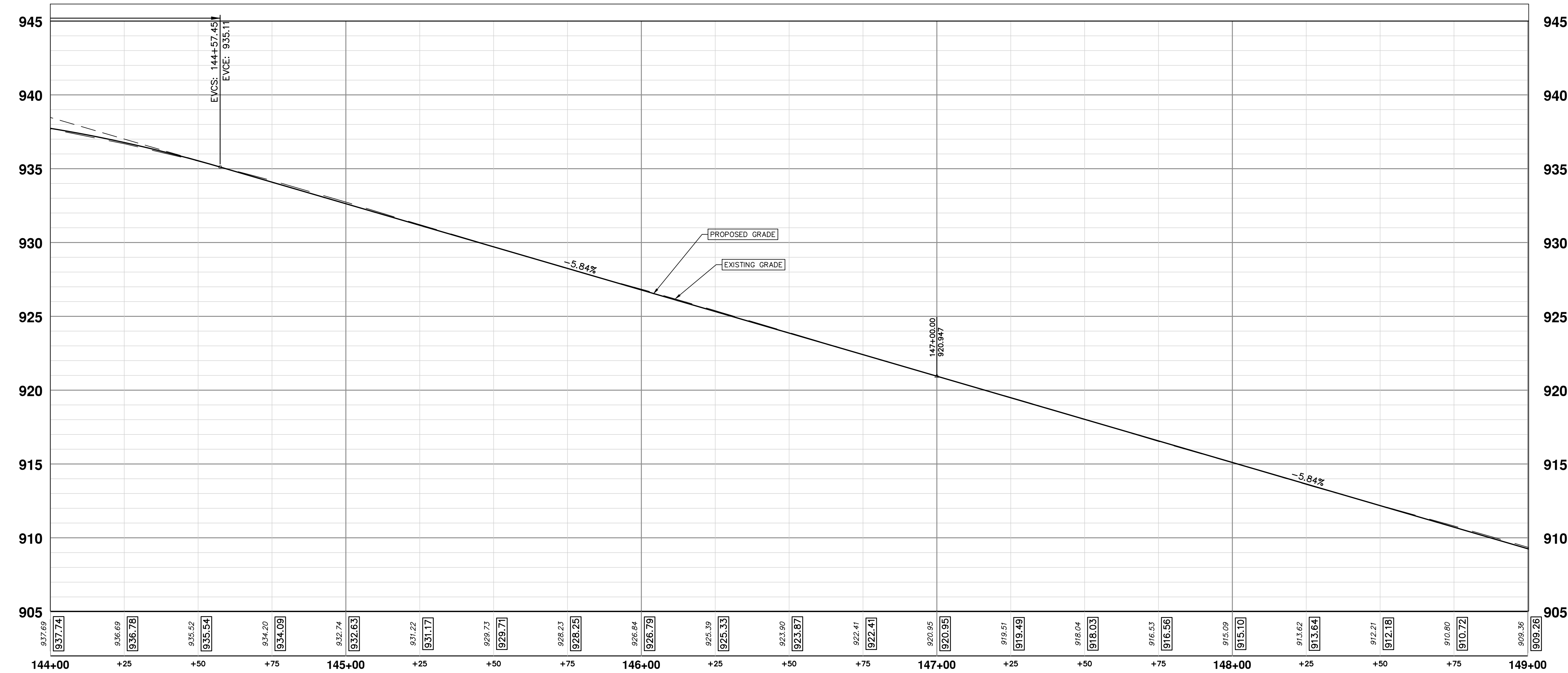
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROADWAY STREET WATER MAIN
 PROPOSED ROAD AND STORM
 STA. 134+00 TO STA. 139+00

SHEET No. **37 OF 50**
 DRAWING No. **2020030-37**
 PROFILE: 1" = 4'
 SCALE: PLAN: 1" = 20'



SEE SHEET 38
STA: 144+00

SEE SHEET 40
STA: 149+00



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	HMA, LVSP - PAVEMENT LEVELING/TOP COURSE
HMA APP	NOT USED
CG	CONCRETE CURB OR CURB & GUTTER - ANY TYPE
DO-M	NOT USED
DC-6	6 INCH CONCRETE DRIVE APPROACH - HIGH EARLY
SW-4	4 INCH CONCRETE SIDEWALK
SWR-6	6 INCH CONCRETE SIDEWALK OR SIDEWALK RAMP
DWS	DETECTABLE WARNING, CAST IN PLACE
ABO	ADJUST BY OTHERS
1	ADJUST MONUMENT BOX, VALVE BOX, OR GAS BOX
2	ADJUST STRUCTURE COVER
TABLE	CONCRETE SPEED TABLE
TURF	TURF ESTABLISHMENT

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

PK2	ML2	1/12/2023
PK2	ML2	12/16/2022
PK2	ML2	7/15/2022
PK2	ML2	6/16/2022
PK2	ML2	5/26/2022
PK2	ML2	DATE
PK2	ML2	CHECKED

ADDENDUM 1

04	ISSUED FOR BIDS	1/12/2023
03	100% OWNER REVIEW	12/16/2022
02	95% OWNER REVIEW	7/15/2022
01	60% OWNER REVIEW	6/16/2022
00	REV.	DATE
00	DESCRIPTION	

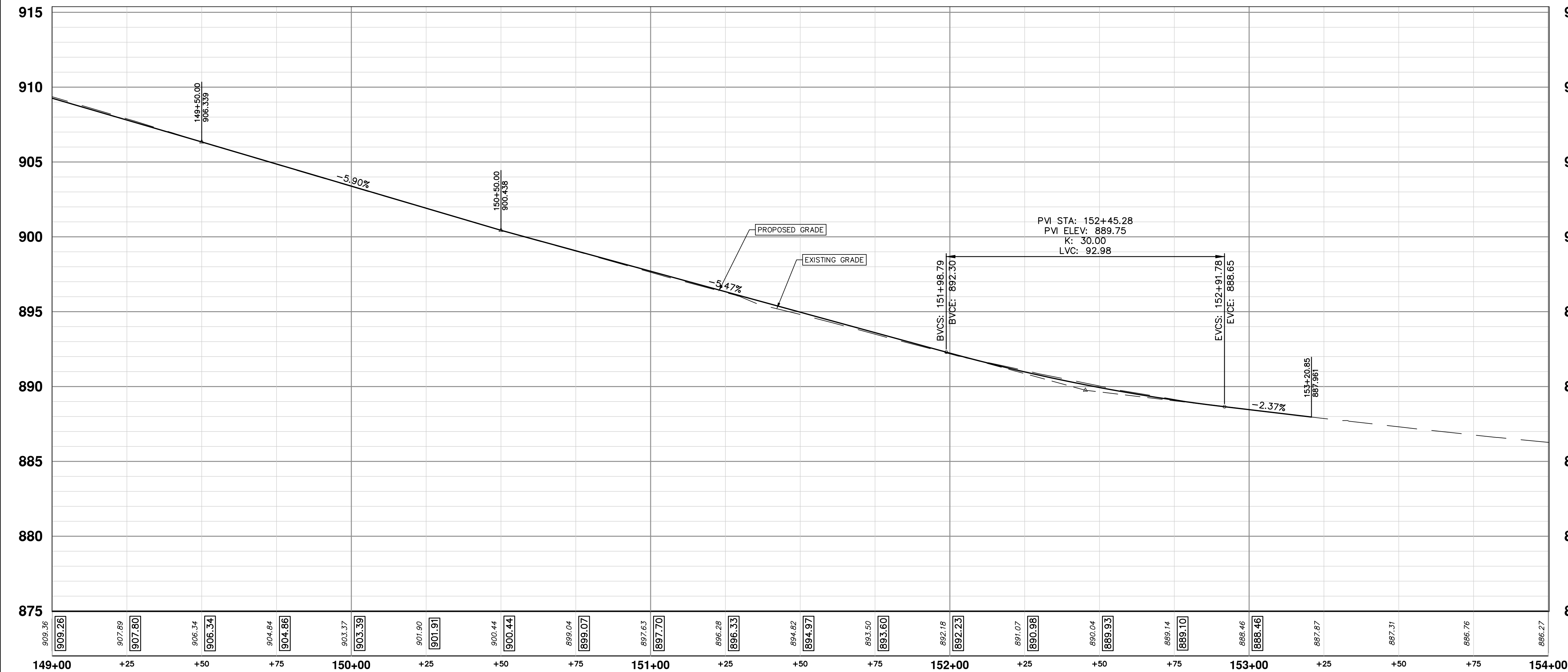
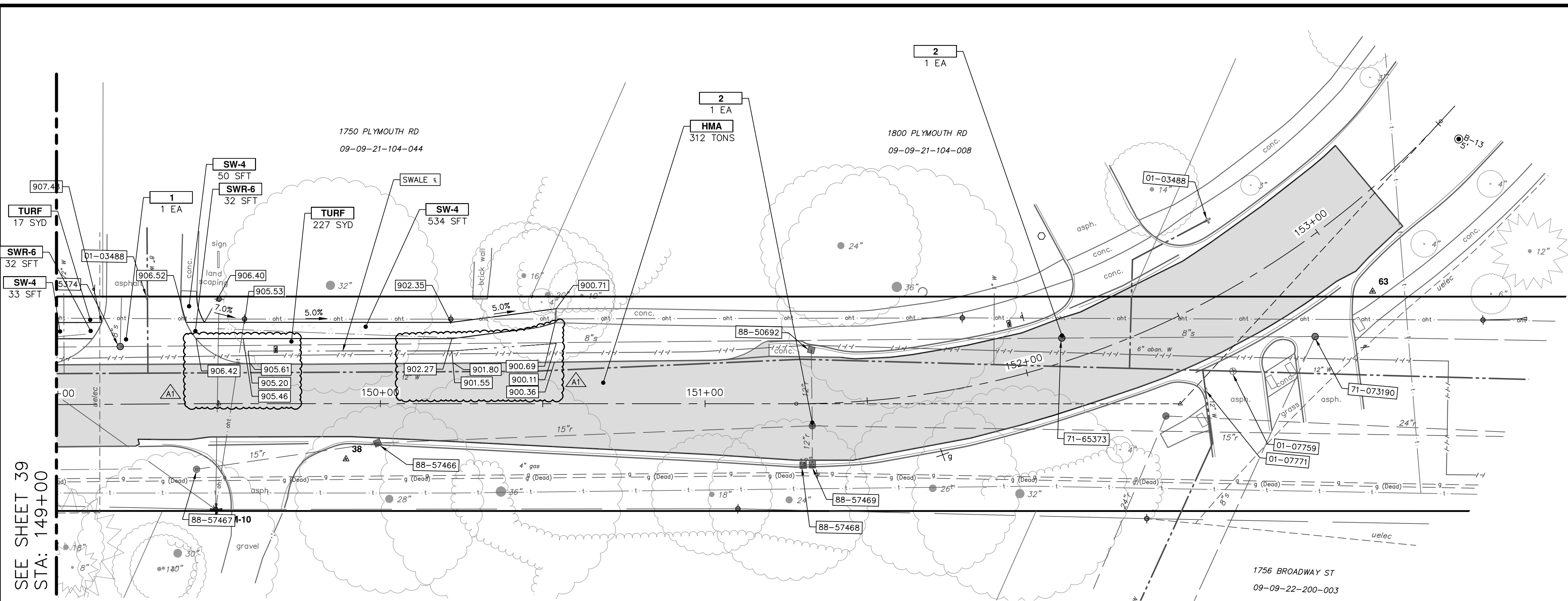
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PUBLIC SERVICES
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ANN ARBOR MI 48106-6647
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BROADWAY STREET WATER MAIN
PROPOSED ROAD AND STORM
STA. 144+00 TO STA. 149+00

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

DRAWING No. 2020030-39

SHEET No. 39 OF 50



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	HMA, LVSP - PAVEMENT LEVELING/TOP COURSE
HMA APP	NOT USED
CG	CONCRETE CURB OR CURB & GUTTER - ANY TYPE
DO-M	NOT USED
DC-6	6 INCH CONCRETE DRIVE APPROACH - HIGH EARLY
SW-4	4 INCH CONCRETE SIDEWALK
SWR-6	6 INCH CONCRETE SIDEWALK OR SIDEWALK RAMP
DWS	DETECTABLE WARNING, CAST IN PLACE
ABO	ADJUST BY OTHERS
1	ADJUST MONUMENT BOX, VALVE BOX, OR GAS BOX
2	ADJUST STRUCTURE COVER
TABLE	CONCRETE SPEED TABLE
TURF	TURF ESTABLISHMENT

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROADWAY STREET WATER MAIN
 PROPOSED ROAD AND STORM
 STA. 149+00 TO STA. 154+00

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

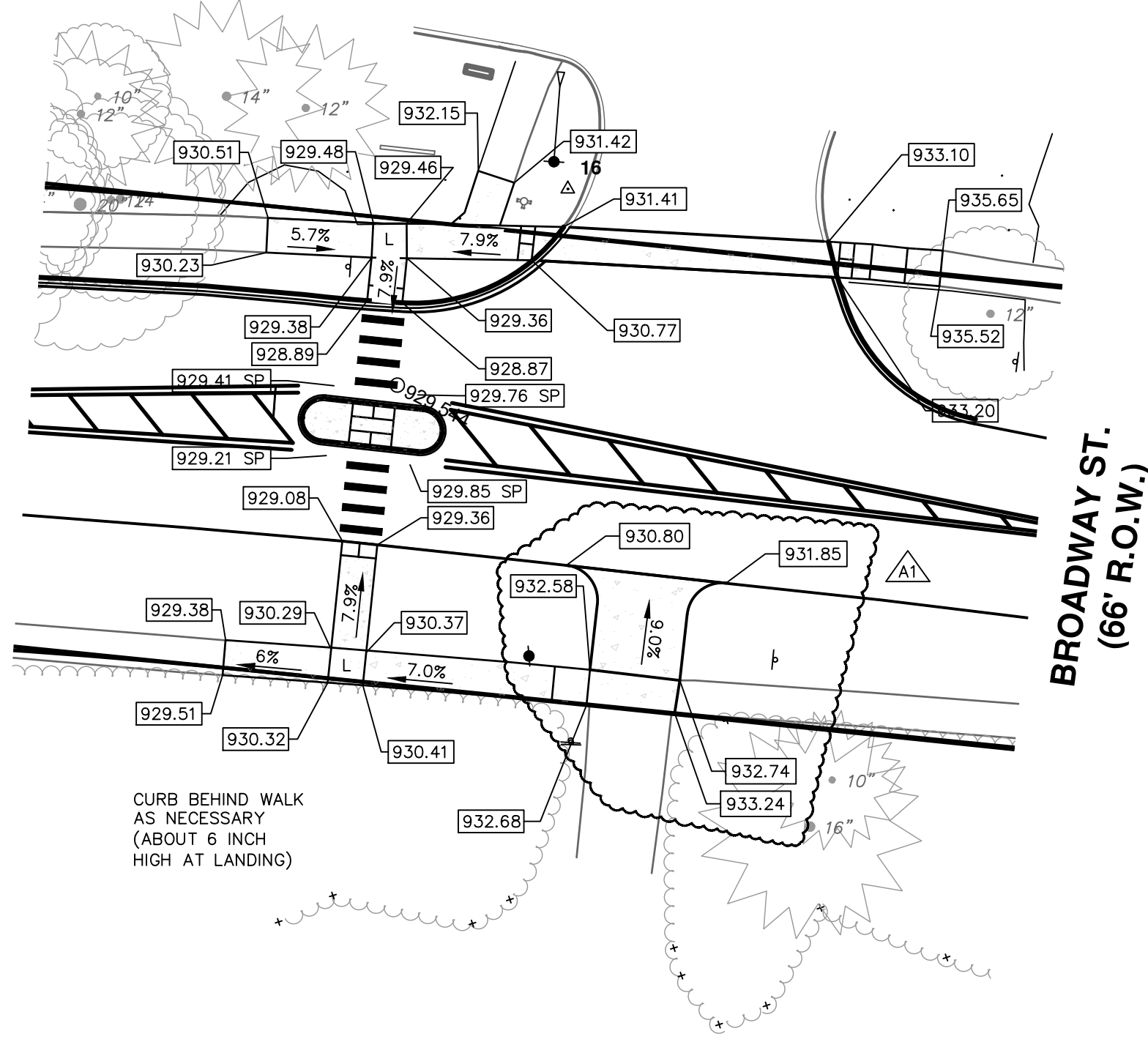
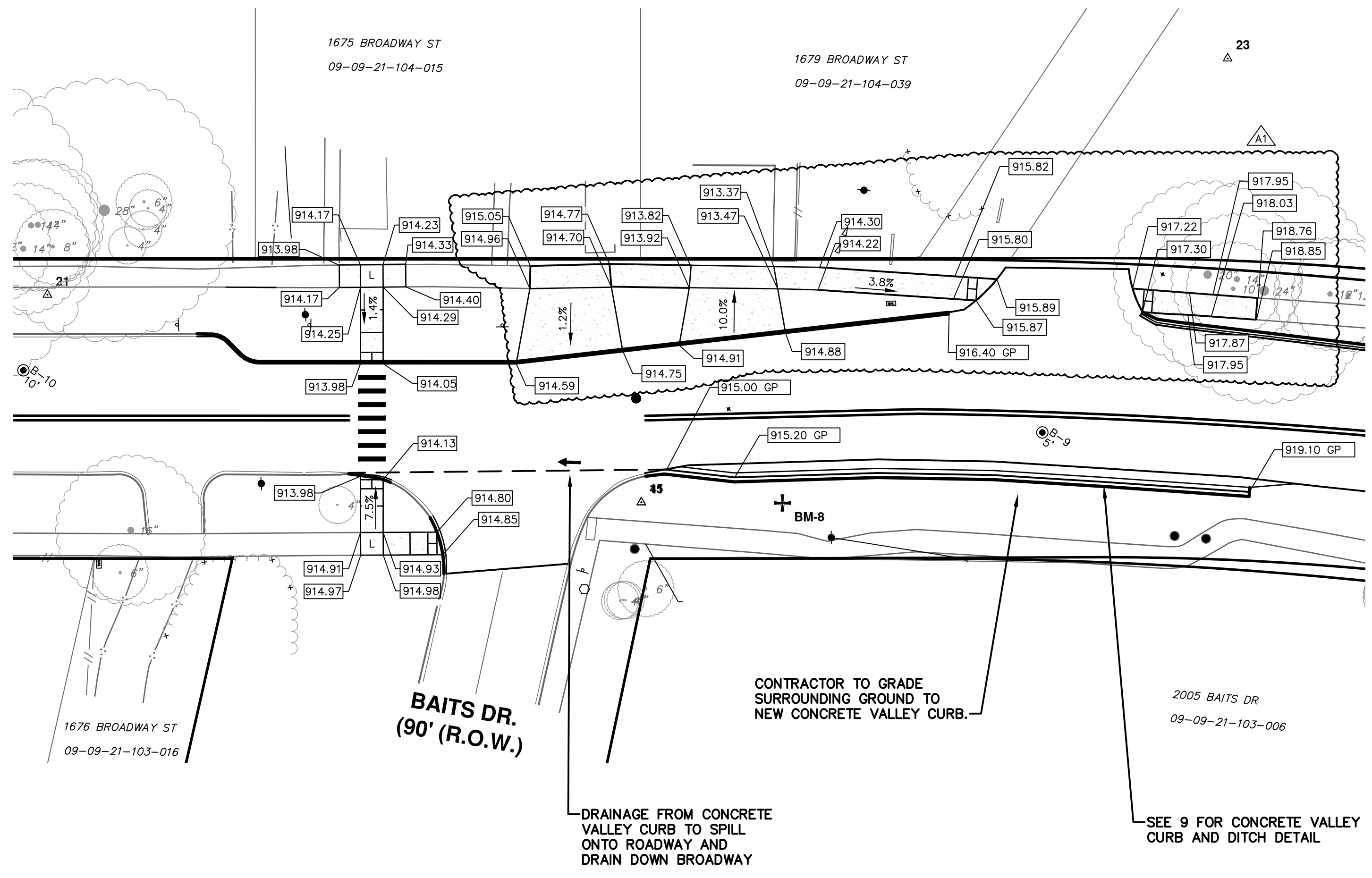
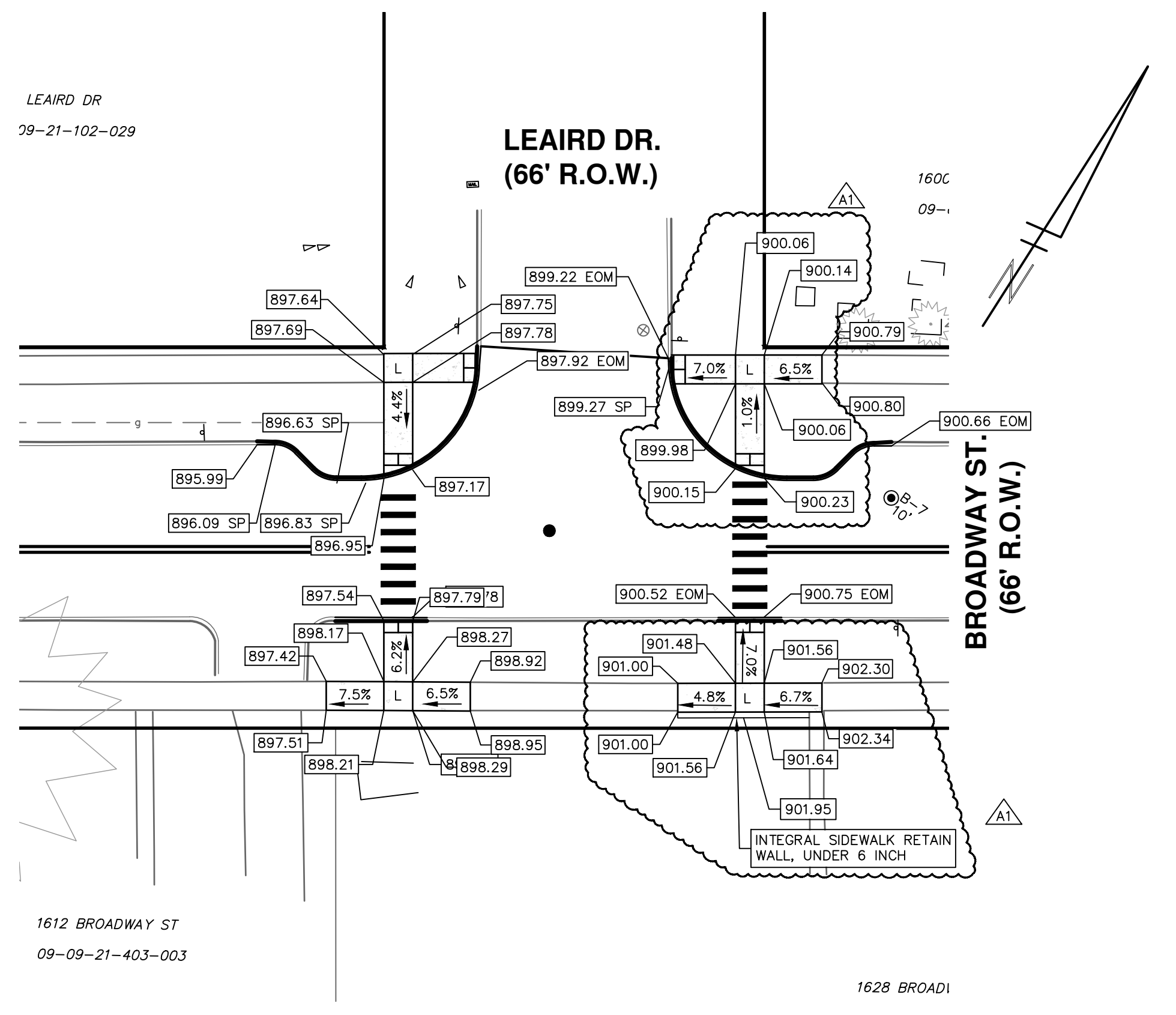
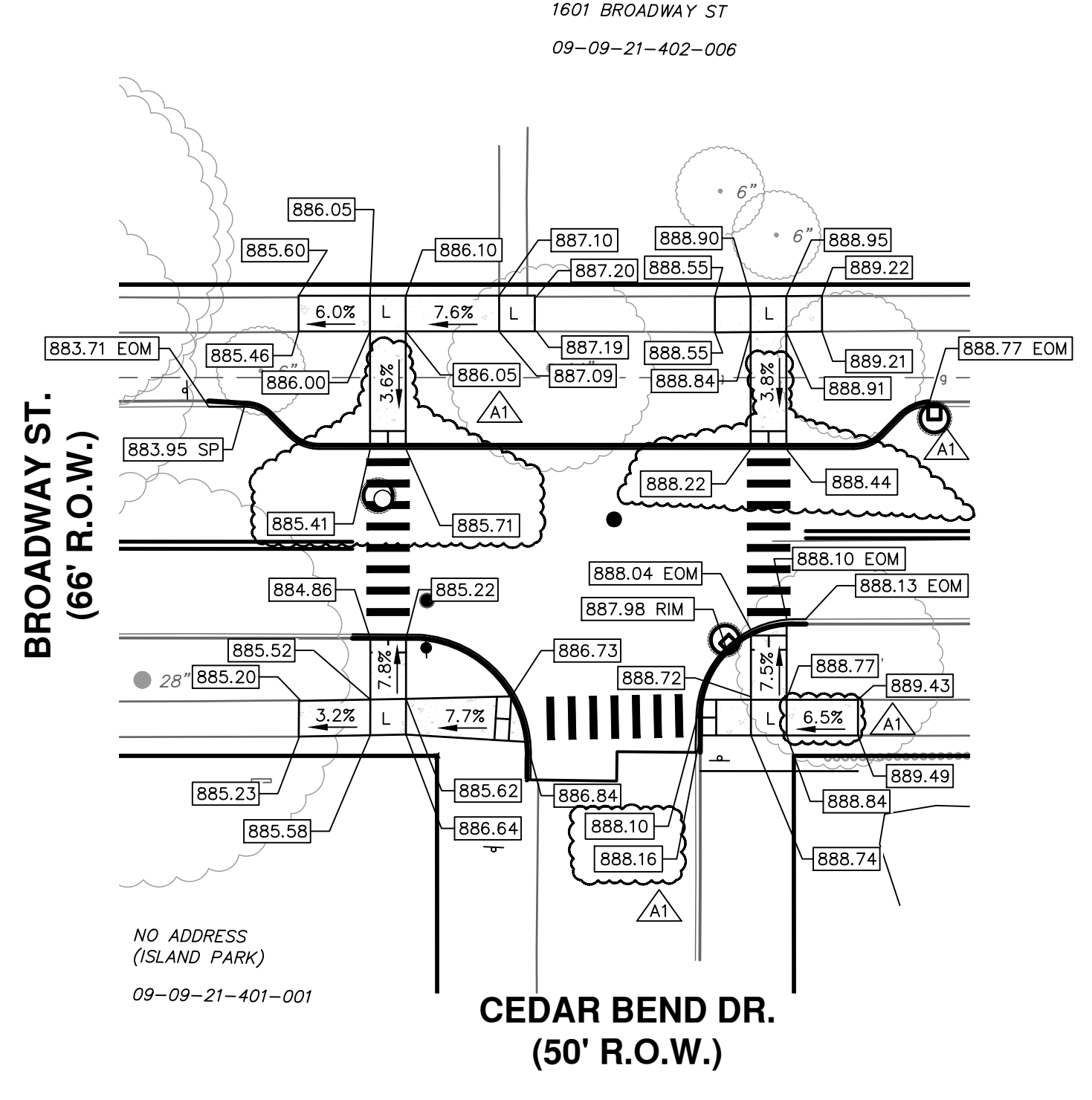
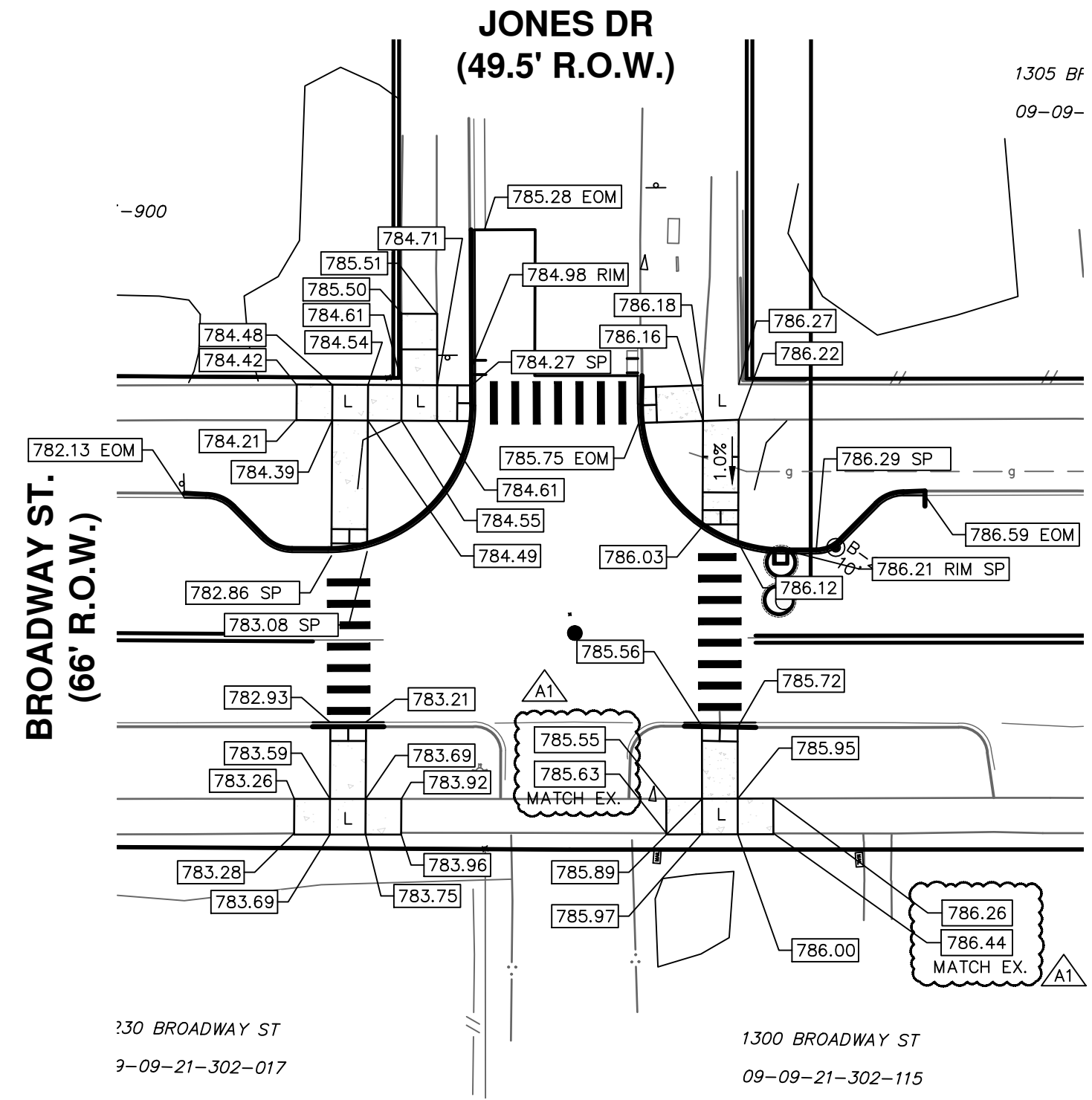
DRAWING No. 2020030-40

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
04	ADDENDUM 1	1/12/2023	ML2	ML2
03	ISSUED FOR BIDS	12/16/2022	PK2	PK2
02	100% OWNER REVIEW	7/15/2022	PK2	PK2
01	95% OWNER REVIEW	6/16/2022	PK2	PK2
00	60% OWNER REVIEW	5/26/2022	ML2	ML2

SHEET No. 40 OF 50

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PK2	ML2	DATE	DESCRIPTION	CHECKED
04	ADDDUM 1			
03	ISSUED FOR BIDS	12/16/2022		
02	100% OWNER REVIEW	7/15/2022		
01	95% OWNER REVIEW	6/16/2022		
00	60% OWNER REVIEW	5/26/2022		

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR MI 48107-8647
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
BROADWAY STREET WATER MAIN
INTERSECTION GRADES
DETAIL GRADING

SCALE PLAN: 1" = 20'
DRAWING No. 2020030-41
SHEET No. 41 OF 50