

ADDENDUM No. 1

ITB No. 4419

South Division Street Resurfacing

Due: February 26, 2016, 10:00 A.M.

The following changes, additions, and/or deletions shall be made to the Invitation to Bid for South Division Street Resurfacing, ITB No. 4419, on which proposals will be received on/or before February 26, 2016, by 10:00 A.M.

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum includes 10 page(s) and 15 drawing(s).**

The Contractor is to acknowledge receipt of this Addendum No. 1 on page ITB-1 of the Bid Documents.

The following forms provided within this ITB Document must be included in submitted bids.

- **City of Ann Arbor Prevailing Wage Declaration of Compliance**
- **City of Ann Arbor Living Wage Ordinance Declaration of Compliance**
- **Vendor Conflict of Interest Disclosure Form**
- **City of Ann Arbor Non-Discrimination Ordinance Declaration of Compliance**

Bids that fail to provide these completed forms listed above upon bid opening will be rejected as non-responsive and will not be considered for award.

I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the Bid documents which are outlined below are referenced to a page or Section in which they appear conspicuously. The Bidder is 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.

<u>Section/Page(s)</u>	<u>Change</u>
Bid Form/1 and 2	Revise quantities for line numbers 4, 5, 10, 18, 30, and 35.
Bid Form/1	Added line 19 – Aggregate Base, C.I.P., 21AA
Detailed Specifications	Project Schedule – Revised project completion date from April 15 to July 15, 2016. Also revised the week of Art Fair from April 17 to July 17, 2016.
Plans/3	Added Benchmarks and miscellaneous quantities for Aggregate Base, C.I.P., 21AA.

Plans/3.5	Revised and added quantities to reflect changes to bid form.
Plans/5	Revised detail for Remove and Replace Curb and Gutter – revised payment of Roadway Grading to Excavation, Earth and Embankment, CIP.
Plans/9	Added structures to profile view. Revised rims in Water Main Structure Table.
Plans/10	In plan view, corrected abandon limits linework to match notes.
Plans/11	Added valves to profile view. Revised rims in Water Main Structure Table.
Plans/13	Revised removals in William Street intersection.
Plans/15	Revised curb and gutter quantities, added full-depth pavement replacement limits, and corrected shading.
Plans/16, 18 and 19	Added full-depth pavement replacement limits, and corrected shading.
Plans/17	Revised curb and gutter quantities, added full-depth pavement replacement limits and corrected shading, and deleted proposed drainage structure in the northeast quadrant of Williams.
Plans/21	Deleted proposed drainage structure in the northeast quadrant of Williams.
Plans/28	Added pavement marking layout dimensions on the west leg of Liberty.
Plans/29	Corrected parking space markings.

Respondents are directed to take note in its review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here.

II. QUESTIONS AND ANSWERS

The following Questions have been received by the City. Responses are being provided in accordance with the terms of the ITB.

Question #1: Will traffic be maintained during water service installation?

Answer: Water services will be installed part-width, while maintaining traffic as shown in the staging plans.

Question #2: For paving fabric installation, will the fabric be installed in Stages 1-2A and 2-2A as separate operations?

Answer: If the manufacturer does not recommend maintaining traffic on sanded fabric, then the fabric will be gapped or placed by hand.

III. NOTICE TO BIDDERS

At the prebid meeting, it was brought to the attendees' attention to review the detailed specifications carefully for details for payment of work.

It was also brought to the attendees' attention that this work is occurring in the downtown area, so all sidewalk and ramps must contain fibermesh reinforcement. And in an effort to expedite the construction, all concrete for curbs, ramps, drives and sidewalk will be high early concrete. The fibermesh reinforcement and additional concrete are to be included in the unit price for the respective items.

It was also brought to the attendees' attention that due to the volume of pedestrian traffic in the downtown area, Temporary Pedestrian Type II Barricades are required. These are cane-detectable barricades. A detailed specification is included in the documents.

Bidders are responsible for any conclusions that they may draw from the information contained in the Addendum.

BID FORM
Section 1 - Schedule of Prices
Project: **ITB 4419 - South Division Street Resurfacing**
Addendum 1

LINE	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT (\$)
1	General Conditions, Maximum \$	LS	1	\$	
2	Project Supervision, Maximum \$	LS	1	\$	
3	Audiovisual Tape Coverage	LS	1	\$	
4	Storm Sewer Pipe, Less than 24 Inch, Remove	Ft	56	\$	
5	Storm Sewer Structure, Remove	Ea	7	\$	
6	Water Main Pipe, 6 Inch, Abandonment	Ft	565	\$	
7	Water Main Pipe, 12 Inch, Abandonment	Ft	10	\$	
8	6 Gate Valve In Box, Abandon	Ea	2	\$	
9	12 Gate Valve In Box, Abandon	Ea	1	\$	
10	Remove Concrete Pavement - Any Thickness	Syd	1870	\$	
11	Remove Concrete Curb & Gutter - Any Type	Ft	1989	\$	
12	Remove Concrete Sidewalk - Any Thickness	Sft	3275	\$	
13	Embankment, CIP	Cyd	239	\$	
14	Excavation, Earth	Cyd	345	\$	
15	Granular Material, CI II	Cyd	138	\$	
16	Exploratory Excavation (0-10' Deep) Tr Det I	Ea	5	\$	
17	Erosion Control, Inlet Protection, Fabric Drop	Ea	17	\$	
18	Aggregate Base, 8 Inch, 21AA	Syd	2135	\$	
19	Aggregate Base, C.I.P., 21AA	Cyd	25	\$	
20	Storm Sewer, RCP, 12 Inch & SD-TR- I	Ft	72	\$	
21	Single Inlet	Ea	6	\$	
22	Structure Cover	Lb	12000	\$	
23	Adjust Structure Cover	Ea	57	\$	
24	Adjust Monument Box	Ea	5	\$	
25	Adjust Gate Valve Box	Ea	23	\$	
26	Temp Lowering Existing Structure	Ea	57	\$	

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LINE	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT (\$)
27	Temp Lowering Existing Box	Ea	28	\$	
28	Point Existing Structure	Ea	5	\$	
29	Pavement Joint and Crack Repair – Detail 7	Ft	240	\$	
30	Pavement Joint and Crack Repair – Detail 8	Ft	120	\$	
31	HMA, 3E3	Ton	306	\$	
32	HMA, 4E3	Ton	1512	\$	
33	HMA, 5E3	Ton	942	\$	
34	Geosynthetic Paving Layer	Syd	9929	\$	
35	Cold Milling Bituminous Pavement	Ton	3768	\$	
36	HMA Surface, Rem	Syd	1390	\$	
37	Hand Patching, HMA LVSP	Ton	346	\$	
38	HMA, Wedging, 36A	Ton	21	\$	
39	Curb & Gutter, Conc, Barrier	Ft	1827	\$	
40	Drive Opening, Conc, Type M	Ft	262	\$	
41	Sidewalk, Conc, 8 Inch	Sft	3562	\$	
42	Sidewalk Ramp, Conc, 8 Inch	Sft	1058	\$	
43	Detectable Warning Surface	Sft	160	\$	
44	Detectable Warning Surface, Cast Iron	Sft	80	\$	
45	Protective Fence	Ft	1000	\$	
46	Pavt Mrkg, Hot-Applied, Thermoplastic, 4 Inch White	Ft	910	\$	
47	Pavt Mrkg, Hot-Applied, Thermoplastic, 4 Inch Yellow	Ft	314	\$	
48	Pavt Mrkg, Hot-Applied, Thermoplastic, 6 Inch White	Ft	1903	\$	
49	Pavt Mrkg, Hot-Applied, Thermoplastic, Symbol White, 24 Crosswalk	Ft	878	\$	
50	Pavt Mrkg, Hot-Applied, Thermoplastic, Symbol White, 24 Stop Bar	Ft	403	\$	
51	Pavt Mrkg, Overlay Cold Plastic, Legend White, Only	Ea	4	\$	
52	Pavt Mrkg, Overlay Cold Plastic, Symbol White, Bike Arrow	Ea	7	\$	

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53	Pavt Mrkg, Overlay Cold Plastic, Symbol White, Bike Sym	Ea	10	\$	
54	Pavt Mrkg, Overlay Cold Plastic, Symbol White, Left Arrow	Ea	2	\$	
55	Pavt Mrkg, Overlay Cold Plastic, Symbol White, Right Arrow	Ea	1	\$	
56	Pavt Mrkg, Overlay Cold Plastic, Symbol White, Sharrow	Ea	3	\$	
57	Pavt Mrkg, Overlay Cold Plastic, Symbol White, Thru Arrow	Ea	1	\$	
58	Recessed Pavt Mrkg, Thermoplastic, Parking	Ea	82	\$	
59	Recessing Pavement Markings Longitudinal	Ft	3127	\$	
60	Recessing Pavement Markings Transverse	Sft	2144	\$	
61	Recessing Special Pavement Markings	Sft	630	\$	
62	Minor Traffic Control, Maximum \$	LS	1	\$	
63	Traffic Regulator Control	LS	1	\$	
64	Sign, Type B, Temp, Prismatic, Furn	Sft	1118.5	\$	
65	Sign, Type B, Temp, Prismatic, Oper	Sft	1118.5	\$	
66	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	50	\$	
67	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	50	\$	
68	Sign Cover	Ea	16	\$	
69	Lighted Arrow, Type C, Furn	Ea	2	\$	
70	Lighted Arrow, Type C, Oper	Ea	2	\$	
71	Sign, Portable, Changeable Message, Furn	Ea	4	\$	
72	Sign, Portable, Changeable Message, Oper	Ea	4	\$	
73	Plastic Drum, High Intensity, Lighted, Furn	Ea	183	\$	
74	Plastic Drum, High Intensity, Lighted, Oper	Ea	183	\$	
75	Channelizing Device, 42 inch, Furn	Ea	48	\$	
76	Channelizing Device, 42 inch, Oper	Ea	48	\$	
77	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	7	\$	
78	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	7	\$	

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LINE	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT (\$)
79	Pavt Mrkg, Temp, Type R, 24 Inch, White	Ft	420	\$	
80	Slope Restoration	Syd	143	\$	
81	Project Clean-Up	LS	1	\$	
82	Handhole Assembly, 12 Inch X 18 Inch	Ea	2	\$	
83	Handhole Assembly, 17 Inch X 30 Inch	Ea	2	\$	
84	Handhole Assembly, 24 Inch X 36 Inch	Ea	2	\$	
85	Class 50 DIP W/ Polyethylene Wrap, 4 Inch & SD-TR-I	Ft	10	\$	
86	Class 50 DIP W/ Polyethylene Wrap, 6 Inch & SD-TR-I	Ft	18	\$	
87	Class 50 DIP W/ Polyethylene Wrap, 8 Inch & SD-TR-I	Ft	54	\$	
88	Class 50 DIP W/ Polyethylene Wrap, 12 Inch & SD-TR-I	Ft	118	\$	
89	DIP, 8 Inch 45 Degree Bend	Ea	2	\$	
90	DIP, 8 Inch 22.5 Degree Bend	Ea	2	\$	
91	DIP, 12 Inch 45 Degree Bend	Ea	2	\$	
92	DIP, 12 Inch 22.5 Degree Bend	Ea	2	\$	
93	DIP, 6 X 8 Reducer	Ea	1	\$	
94	DIP, 6 X 12 Reducer	Ea	1	\$	
95	DIP, 6 X 6 X 6 Tee	Ea	1	\$	
96	DIP, 8 X 12 X 12 Tee	Ea	1	\$	
97	12 Gate Valve In Well	Ea	2	\$	
98	Excavate & Backfill For Water Service Tap And Lead	Ft	590	\$	
99	Fire Hydrant Assembly	Ea	1	\$	
100	Fire Hydrant Assembly, Remove	Ea	1	\$	
101	Line Stop, 4 Inch, Temp	Ea	2	\$	
102	Line Stop, 6 Inch, Temp	Ea	3	\$	
103	SDR 35 PVC Sanitary Service Lead, 4 Inch	Ft	88		

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Total From BF-1 \$ _____

Total From BF-2 \$ _____

Total From BF-3 \$ _____

Total From BF-4 \$ _____

Total Base Bid \$ _____

**DETAILED SPECIFICATION
FOR
PROJECT SCHEDULE**

AA:JN

1 of 2

2/19/16

Examination of Plans, Specifications, and Work Site: Bidders shall carefully examine the Bid Form, plans, specifications and the work site until the Bidder is satisfied as to all local conditions affecting the contract and the detailed requirements of construction. The submission of the bid shall be considered prima facie evidence that the Bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and all requirements of the contract.

The entire work under this Contract shall be completed in accordance with, and subject to, the scheduling requirements as outlined below, and all other requirements of the Contract Documents.

By no later than **the Pre-Construction Meeting** the Contractor shall submit a detailed schedule of work, by major item of work, for the Engineer's review and approval. The proposed schedule must fully comply with the scheduling requirements contained in this Detailed Specification. The Contractor shall update the approved work schedule each week and present it to the Engineer at the weekly progress meeting.

The Contractor will receive two (2) copies of the Contract, for his/her execution, on or before **March 11, 2016**. The Contractor shall properly execute both copies of the Contract and return them, with the required Bonds and Insurance Certificate, to the City **no later than April 11, 2016**.

Contractor may begin construction only after receiving the copy of executed contract documents and the Notice to Proceed from the City. Please allow two (2) weeks for these. Appropriate time extensions shall be granted if the Notice to Proceed is delayed due to the circumstances controlled by the City.

All contract work must be complete and open to traffic by **July 15, 2016**. Project completion includes, but not limited to, paving thru the top course of both Stages, the restoration of all disturbed areas, placement of permanent pavement markings, and the removal of any and all traffic control devices. Failure to complete all work as specified herein within the times specified herein, including time extensions granted thereto as determined by the Engineer, shall entitle the City to deduct from the payments due the Contractor, **\$1000.00** in "Liquidated Damages", and not as a penalty, for each and every calendar day beyond the completion date.

The week of July 17, 2016 is the Ann Arbor Street Art Fair. The Organizers are permitted to close area streets, including Liberty Street, and begin set up July 20, 2016 at 6:00 a.m., and open to all streets to traffic by 6:00 a.m. on July 25, 2016. If the City determines the Contractors progress is not sufficient to meet the Project Completion date as defined above, the City may suspend operations and direct the Contractor to prepare to open the project site to pedestrian and vehicular traffic. Any costs encumbered by the Contractor to accomplish this will be at his/her expense. Upon suspending operations, the City will begin assessing Liquidated Damages, which will include the dates note above as permitted by the City to the Art Fair Organizers for the Art Fair, until the project is complete.

The Contractor may propose to adjust the limits or sequencing of construction in order to complete the work more efficiently. Changes to the recommended construction sequence must

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be approved in writing by the Engineer prior to construction and must assure all required coordination with other projects and time lines.

Time is of the essence in the performance of the work of this contract. The Contractor is expected to mobilize sufficient personnel and equipment, and work throughout all authorized hours in order to complete the project by the final completion date. Costs for the Contractor to organize, coordinate, and schedule all of the work of the project, will not be paid for separately, but shall be included in the bid price of the Contract Item "General Conditions."

CONSTRUCTION NOTES:

1. Driveways and entrances to buildings, real property, and the like shall not be blocked except for short durations and only when approved by the Engineer. Vehicular and pedestrian access shall be maintained at all times. It shall be the Contractor's responsibility to coordinate all necessary driveway closures with the property owner(s) and resident(s) in the areas of construction.
2. The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
3. Location and depth of utilities as depicted on the plans is approximate and shown according to the best information available. It is the Contractor's responsibility to excavate ahead and adjust depth of conflict utilities accordingly. Any damage to utilities is the Contractor's responsibility to avoid and/or repair as necessary.
4. The Contractor is to take special care to protect the existing water main and be responsible for maintaining consistent water service.
5. During non-working hours no trench shall remain open; any open trench shall be properly secured with protective fencing. This work shall be included in the item of work "General Conditions".
6. Trenches for new water services shall be excavated to MIOSHA and City of Ann Arbor Field Services requirements.
7. City of Ann Arbor Field Services will install the corporation and copper service lead(s) to transfer the connection(s). If an existing water service is found to be failing or is not copper, the lead will be replaced to the curb box by Field Services.
8. For the installation of corporations, or any other related activities, the Contractor shall not receive additional compensation for delays due to the scheduling of or coordination with the City of Ann Arbor Field Services.
9. The Contractor shall backfill trenches in accordance with Trench Detail specified on plans. This work shall be included in the item of work "Excavate and Backfill for Water Service Tap and Lead". All concrete removals and replacements required for this work will be paid for separately.
10. All ductile iron pipe and fittings shall be polyethylene wrapped per ANSI/AWWA C105/A21.5.
11. Cor-blw bolts to be used at all mechanical water main joints at hydrants and Megalug fittings
12. The Contractor shall construct, flush, and bacteriologically test the water main per Detailed Specification "Water Main Installation and Testing" and as approved by the Engineer. All chlorinated water shall be discharged directly into an approved sanitary sewer. The Contractor shall supply all necessary hoses, fittings and the like to accomplish this work.
13. Water main fittings, other than those specifically listed as separate pay items, which are required to complete the work, such as blow-off assemblies, concrete thrust blocks, solid sleeves and mechanical plugs, shall not be paid for separately, but shall be included in the pipe pay items.
14. Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
15. All fittings, hydrants, valves and castings removed during construction are the property

- of the City of Ann Arbor. The Contractor within 48 hours shall deliver to City of Ann Arbor Field Operations and Maintenance Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
16. Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
 17. The Contractor shall be responsible for the continuous maintenance of the temporary road surface and soil erosion control measures within the construction area until the full completion of the project. This work shall be included in the item of work "General Conditions".
 18. All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.
 19. Sowed sewer pipe connections shall be coupled with a Ferrco flexible coupling and a stainless steel shear ring.
 20. The location of material stock piles and on-site staging areas to be approved by the Engineer.
 21. For mainline paving, the width of the mat for each pass of the paver shall be not less than 10.5' or greater than 15', as directed by the Engineer. The Engineer will direct the layout of the longitudinal joints during construction.
 22. All structures shall receive new castings as directed by the Engineer, as specified on the standard casting schedule. The existing castings are the property of the City of Ann Arbor. The Contractor shall deliver to City of Ann Arbor Field Operations and Maintenance Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
 23. Payment for drainage structure sumps, where specified, shall be included in the payment for the various drainage structure sizes and or types.
 24. Where sewer pipes of different sizes or materials are joined, Ferrco flexible couplings with stainless steel shear rings shall be used. The Contractor's purchase price for these devices, including shipping, shall be paid as an extra. Prior to payment for this item, the Contractor shall submit receipts for the Engineer's review and approval. All other costs associated with the installation of these devices shall be included in the payment for the sewer.
 25. Where sewer and water main are to be removed & replaced or added, all pipe shall be installed using Trench Detail I, Modified detailed in the specifications or shown on Plans. Backfill for sewer and water construction shall be MDOT Granular Material, Class II, Modified.
 26. Existing street name, guide, and regulatory signs, and mailboxes which conflict with the proposed construction shall be removed prior to construction, stored in a manner which will prevent damage, and re-set in locations as directed by the Engineer. This work will not be paid for separately, but shall be included in "General Conditions."
 27. The pay item of Earth Excavation and Embankment (CIP) shall be paid at plan quantity unless the Engineer determines that there has been a significant change from the work shown on the plans. See the 2012 MDOT Standard Specifications for Construction, section 109.01 for more details.

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

1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER AT ALL TIMES DURING CONSTRUCTION. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER.
2. ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, CITY ORDINANCE CHAPTER 63, CITY OF ANN ARBOR STANDARDS DIVISION VII, THE LAWS OF THE STATE OF MICHIGAN, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
3. DAILY, OR AFTER ANY STORM EVENT, INSPECTIONS OF EROSION CONTROL MEASURES SHALL BE MADE BY THE CONTRACTOR. PERIODIC INSPECTIONS MAY BE MADE BY THE ENGINEER TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY CORRECTIONS SHALL BE MADE WITHOUT DELAY, AND WITHOUT ADDITIONAL COST TO THE CITY OF ANN ARBOR.
4. EROSION AND SEDIMENTATION FROM WORK ON THE SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS, ROADWAYS OR WATERWAYS.
5. ALL MUD/SOIL TRACKED ONTO ROADWAYS FROM THE SITE DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR. IF SO ORDERED, THE CONTRACTOR SHALL PROVIDE AND OPERATE A VACUUM-TYPE STREET SWEEPER, AT NO ADDITIONAL COST TO THE CITY OF ANN ARBOR, WITHIN FOUR (4) HOURS OF BEING SO ORDERED.
6. RESTORATION OF ALL DISTURBED AREAS, INCLUDING PLACEMENT OF TOPSOIL, SEED, FERTILIZER AND MULCH AND/OR SOD SHALL BE PERFORMED WITHIN FIVE (5) DAYS OF THE COMPLETION OF FINAL GRADE.
7. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.
8. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
9. PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF WATER TRUCKS AND/OR DUST PALLIATIVE AS REQUIRED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND REMOVAL OF SOME MEASURES UPON AUTHORIZED COMPLETION OF THE PROJECT. FINAL COMPLETION OF PROJECT WILL NOT BE AUTHORIZED UNTIL ALL SITE WORK AND UTILITY CONSTRUCTION IS COMPLETE AND ALL SOILS ARE STABILIZED.
11. THE CONTRACTOR SHALL NOT GRADE INTO ADJACENT PROPERTIES. SILT AND PROTECTIVE FENCE SHALL BE INSTALLED AND MAINTAINED TO PREVENT GRADING, EROSION AND SEDIMENTATION INTO THE ADJACENT PROPERTIES.
12. TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.

SEQUENCE OF EROSION CONTROL MEASURES:

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

SAMPLE SOIL EROSION AND SEDIMENTATION CONTROL INSTALLATION MINIMUM REQUIREMENTS:

- 1.1. INSTALL SILT FENCE, TREE PROTECTION FENCING, MUD MATS, INLET FILTERS ON EXISTING DRAINAGE FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- 1.2. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.
- 1.3. INSTALL WATER MAIN, STORM SEWERS, AND OTHER ENCLOSED DRAINAGE FEATURES. NEW INLET FILTERS SHALL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF NEW DRAINAGE INLETS.
- 1.4. PERFORM PAVEMENT REPAIR AND CONSTRUCTION OF SIDEWALK AND CURB AND GUTTER.
- 1.5. CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY.
- 1.6. INSTALL SLOPE RESTORATION IN ALL DISTURBED AREAS.
- 1.7. CLEAN OUT STORM SEWER SYSTEMS.
- 1.8. REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.
- 1.9. ALL TEMP. SOIL EROSION CONTROL MEASURES MUST BE REMOVED, WITH ENGINEERS APPROVAL, PRIOR TO FINAL INSPECTION.

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

TEMPORARY SEEDING:

1. SEED IN ACCORDANCE WITH PROJECT DRAWINGS AND SPECIFICATIONS.
2. ANY DISTURBED AREA NOT PAVED, SEEDED, MULCHED, SODDED OR BUILT UPON BY NOVEMBER 15TH OR JUNE 30TH IS TO BE TEMPORARILY STABILIZED PER SPECIFICATIONS.

BM #	ELEV	DESCRIPTION
1	860.321	NW ANCHOR BOLT FOR LIGHT POLE/SUPPORT POLE FOR SIGNALS @ SE CORNER OF DIVISION & HURON.
2	862.912	TOP NORTH SIDE OF CONC. BASE FOR PED. POLE @ N.E. CORNER OF DIVISION AND WASHINGTON.
3	864.071	TOP EAST SIDE OF CONC. BASE FOR PED. POLE @ N.W. CORNER OF DIVISION AND LIBERTY.
4	866.285	NW ANCHOR BOLT FOR LIGHT POLE ON EAST SIDE OF DIVISION @ HOUSE #333
5	866.820	NE ANCHOR BOLT FOR LIGHT POLE/SIGNAL SUPPORT POLE @ NW CORNER OF DIVISION & WILLIAM.
6	867.032	SE ANCHOR BOLT FOR LIGHT POLE ON WEST SIDE OF DIVISION @ HSE #414
7	869.096	SET RR SPIKE IN WEST SIDE OF LIGHT POLE @ NE CORNER OF DIVISION & JEFFERSON.
8	869.567	SET RR SPIKE IN WEST SIDE OF LIGHT POLE ON EAST SIDE OF DIVISION ACROSS THE STREET FROM HSE #518
9	867.483	SET RR SPIKE IN EAST SIDE OF LIGHT POLE ON WEST SIDE OF DIVISION @ NORTH SIDE OF CORNER PARK AREA.
10	860.114	SE ANCHOR BOLT FOR MAST ARM POLE ON WEST SIDE OF DIVISION @ PACKARD AND MADISON.

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

PERMIT	ISSUING AUTHORITY
LANE CLOSURE PERMIT*	CITY OF ANN ARBOR PROJECT MANAGEMENT UNIT
"NO PARKING" SIGNS PERMIT*	CITY OF ANN ARBOR PROJECT MANAGEMENT UNIT
RIGHT-OF-WAY PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
* NO COST TO CONTRACTOR	

PERMITS REQUIRED TO BE OBTAINED BY THE CITY OF ANN ARBOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

PERMIT	ISSUING AUTHORITY
M.D.E.Q. WATER MAIN CONSTRUCTION PERMIT	MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
M.D.O.T. RIGHT-OF-WAY PERMIT	MICHIGAN DEPARTMENT OF TRANSPORTATION

CONTACT INFORMATION

PUBLIC UTILITIES	OWNER	CONTACT
WATER		DAN WOODEN (734) 794-6350
SANITARY		MARK COZART (734) 794-6350
STORM	CITY OF ANN ARBOR FIELD OPERATIONS SERVICE UNIT W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	MATT WALDSMITH (734) 794-6350
FORESTRY		STEVEN GOEBEL (734) 794-6350
SIGNS SIGNALS STREET LIGHTS		CHUCK FOJTIK (734) 794-6361
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	ROBERT CZAPIEWSKI (734) 544-7818
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	CLAY COMBEE (734) 397-4112
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	(734) 996-2135
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016

MISCELLANEOUS QUANTITIES

ITEM DESCRIPTION	QUANTITY
AGGREGATE BASE, C.I.P., 21AA	25 CYD
BRICK PAVERS, REMOVE AND REPLACE, ANY TYPE	500 SFT
EROSION CONTROL, INLET PROTECTION, FABRIC DROP	17 EA
EMBANKMENT, CIP	239 CYD
EXCAVATION, EARTH	345 CYD
GEOSYNTHETIC PAVING LAYER	9,929 SYD
GRANULAR MATERIAL, CL II	138 CYD
HAND PATCHING, HMA LVSP	346 TONS
PAVEMENT JOINT AND CRACK REPAIR - DETAIL 7	240 FT
PAVEMENT JOINT AND CRACK REPAIR - DETAIL 8	120 FT
POINT EXISTING STRUCTURE	5 EA
PROTECTIVE FENCE	1000 FT



	JAN	JAN	JAN	AMW	CHECKED
JKA	JKA	JKA	JKA	JKA	DRAWN
2/22/2016	1/21/2016	11/24/2015	10/05/2015	DATE	

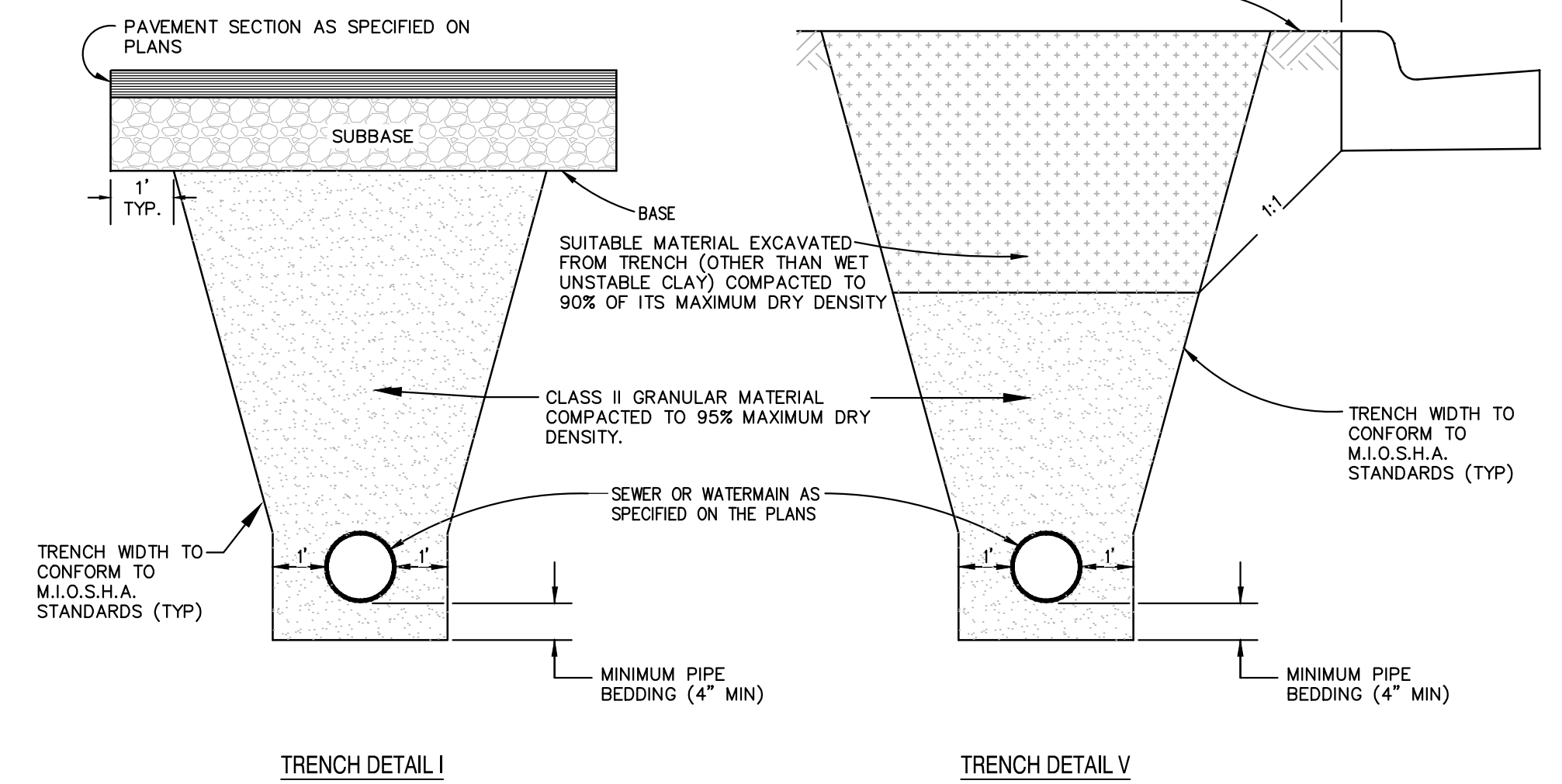
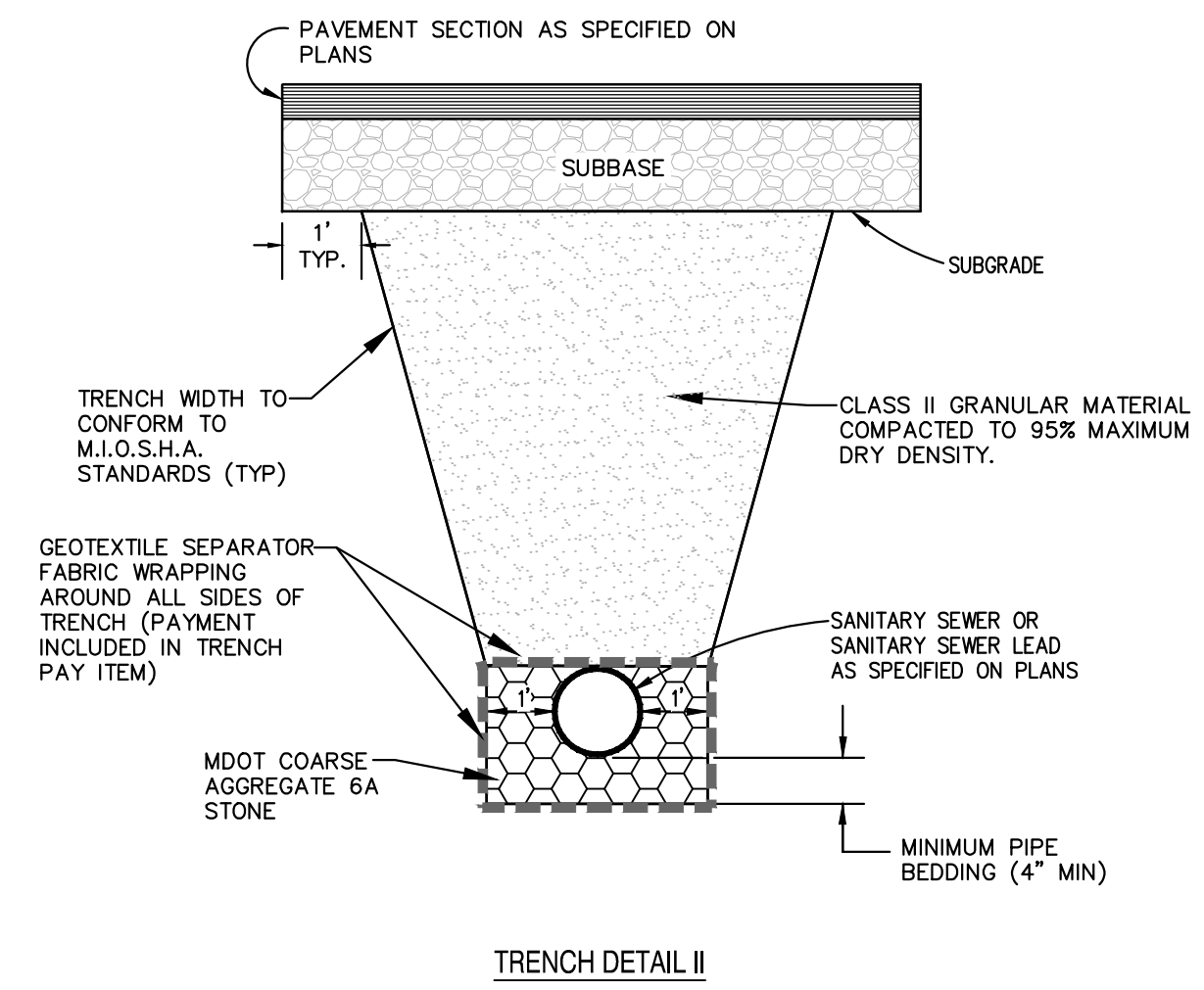
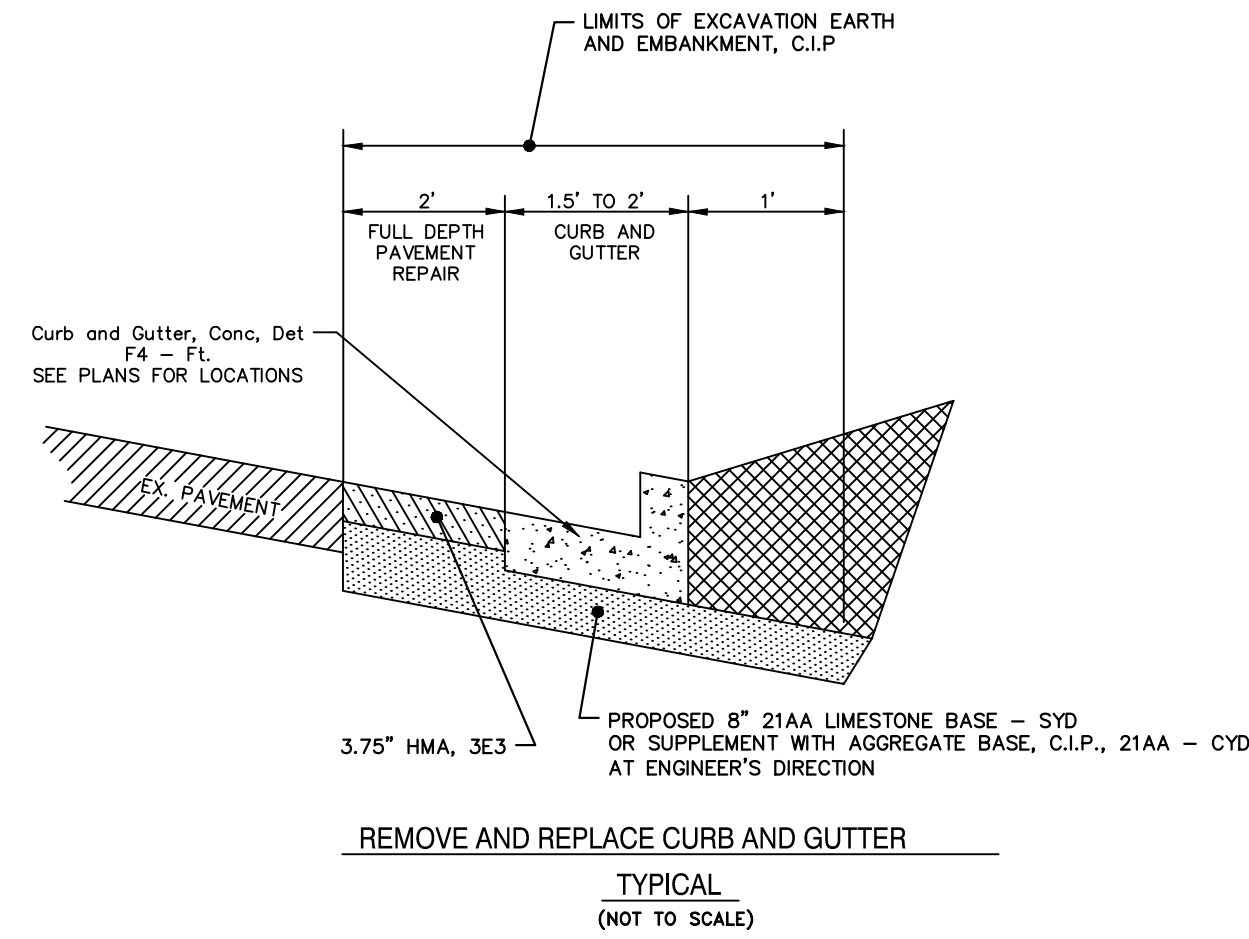
ADDENDUM	FINAL SUBMITTAL	PROJECT MANAGER REVIEW	SOIL BORING LOCATION SHEET	DESCRIPTION
01	02	01	00	REV.

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
PO BOX 886
ANN ARBOR MI 48107-0867
734-794-4410
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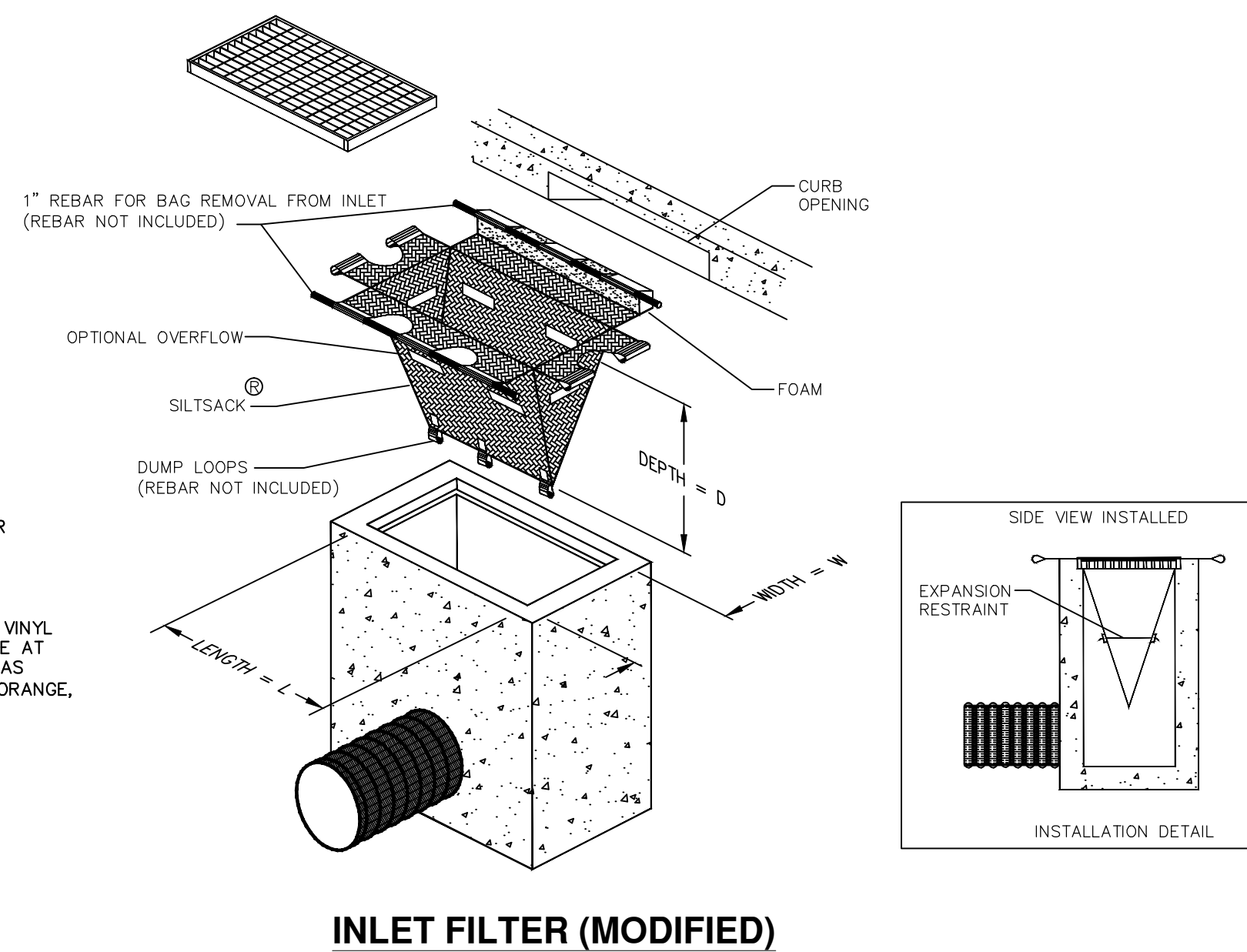
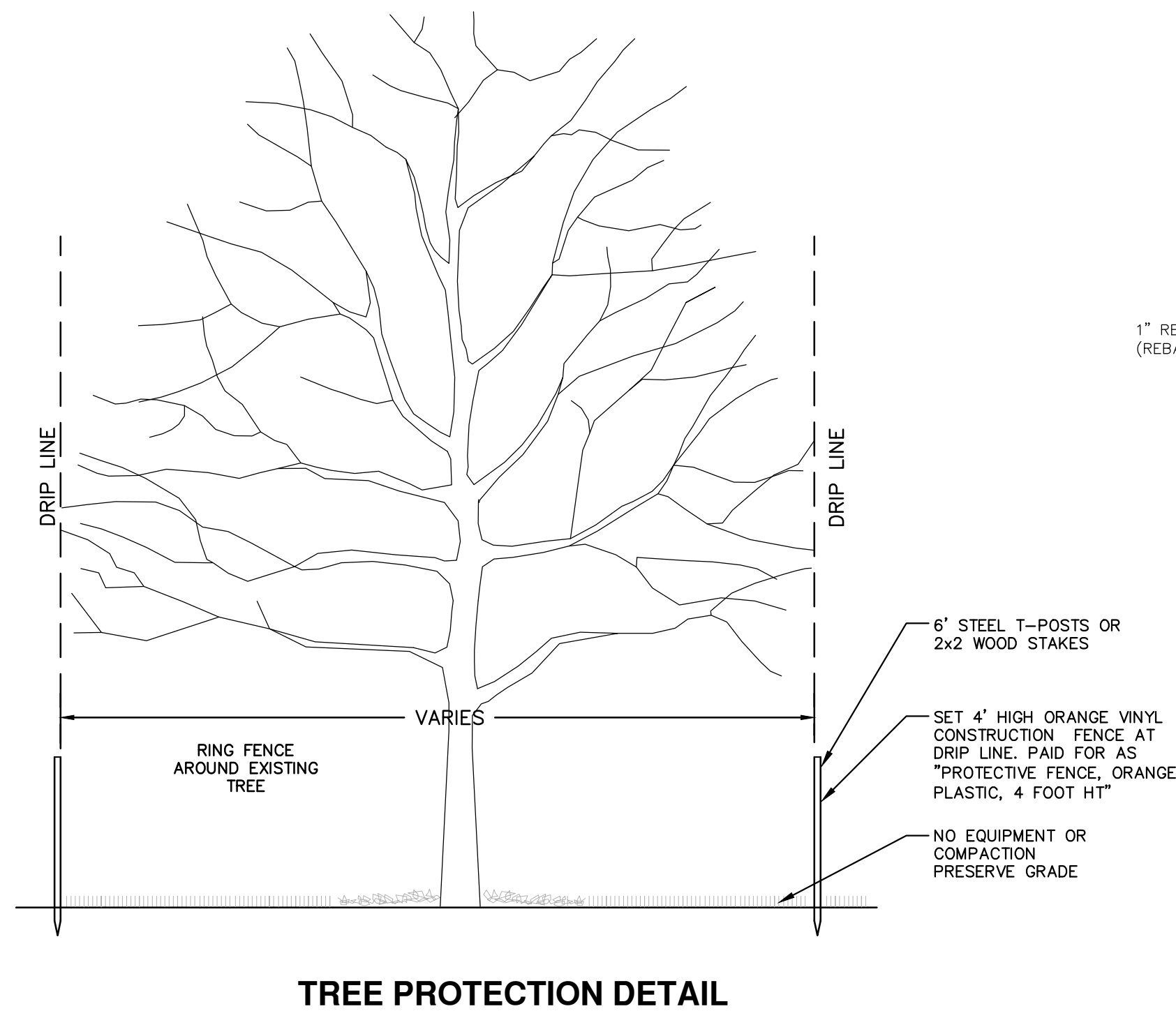
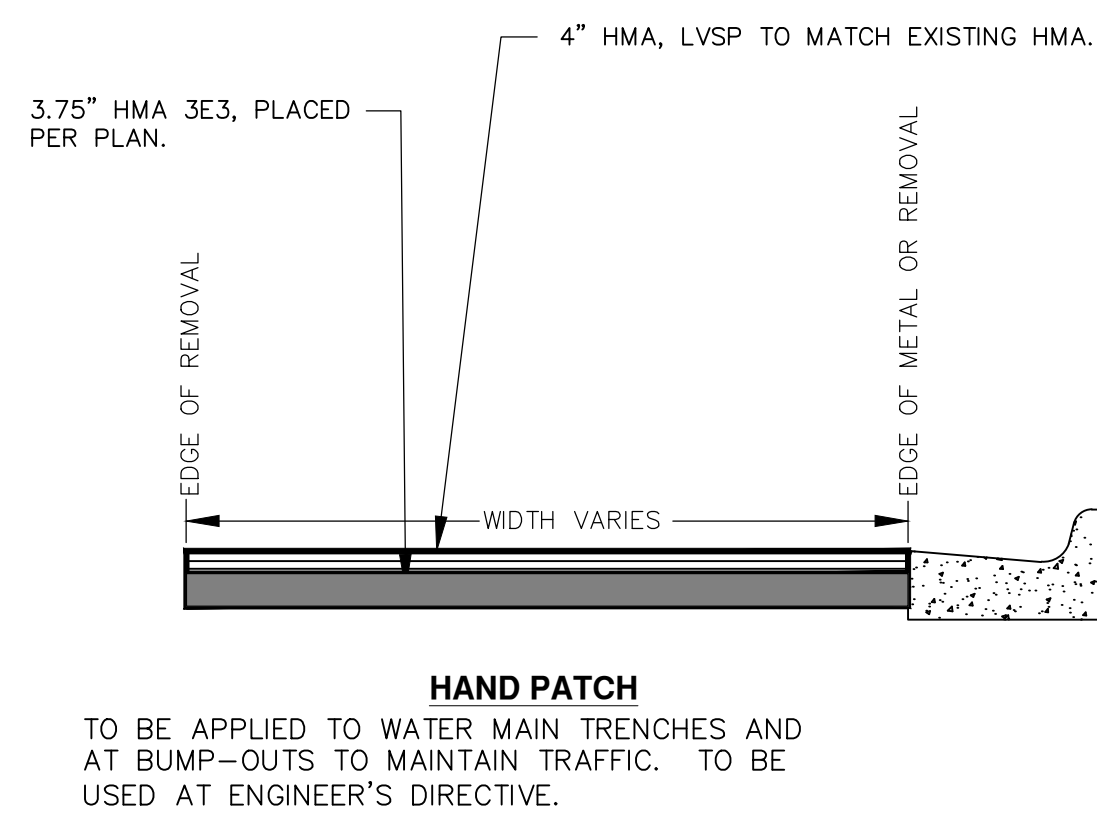
PROJECT MANAGEMENT - CITY OF ANN ARBOR
S. DIVISION ST. RESURFACING
COVER AND NOTES
STD NOTES
SCALE: N/A
DRAWING No. 2015038-3
SHEET No. 3 OF 41

S:\Project Management\Design\2015038 DET.dwg Dwg Created: 4-Jan-16 - _02 standard bw.stb - Plot Date: 22-Feb-16



UTILITY TRENCH DETAILS

- NOTES:
1. PAVEMENT REMOVAL IS INCLUDED IN PRICE OF UTILITY SPECIFICATION
 2. DENSITY TESTING PER CITY OF ANN ARBOR SPECIFICATION
 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



SILTSACK® SPECIFICATIONS

NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

REGULAR FLOW SILTSACK®
(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC ⁻¹

HI-FLOW SILTSACK®
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

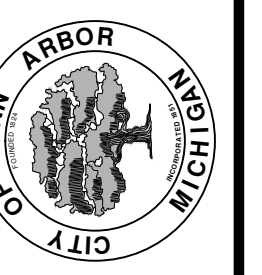
PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC ⁻¹

OIL-ABSORBANT SILTSACK®
(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

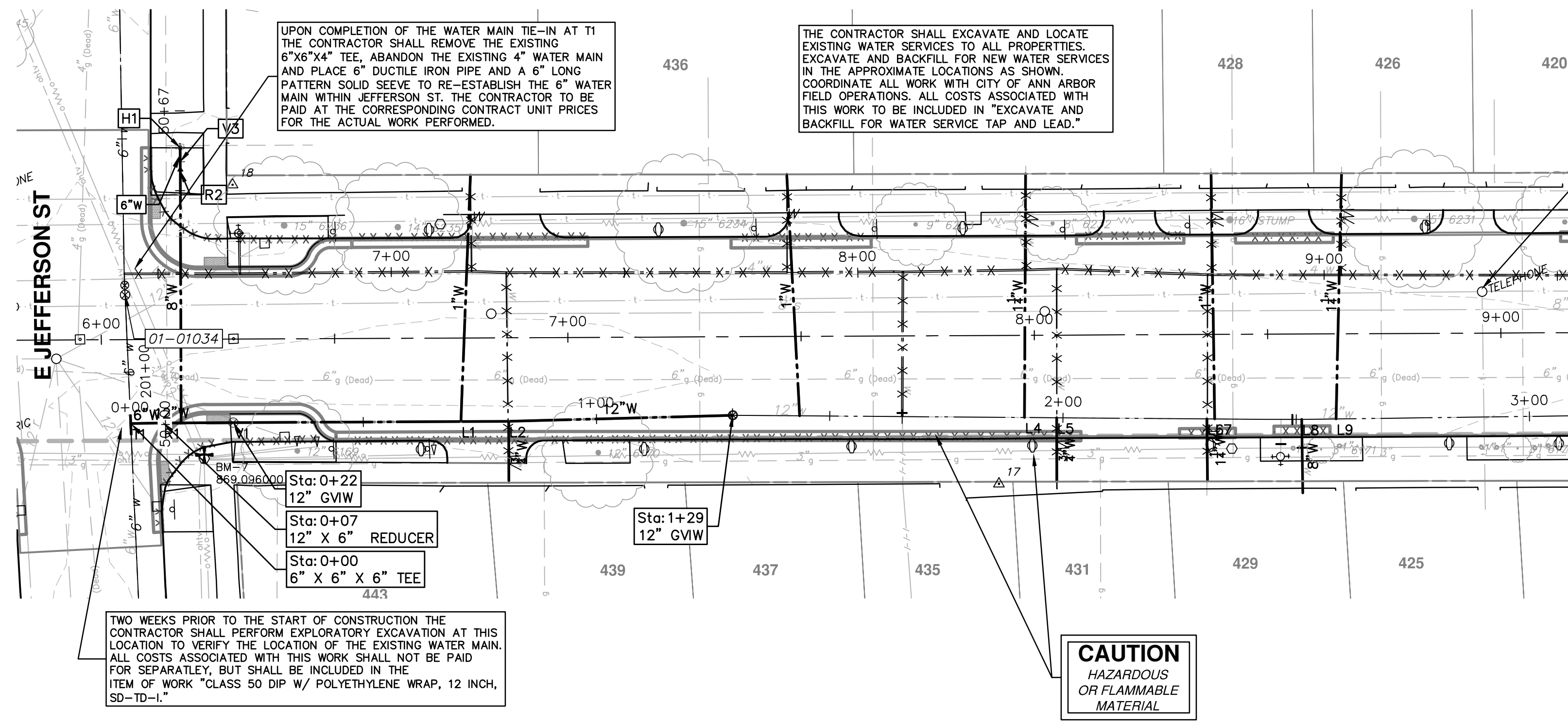
DEPENDING ON YOUR PARTICULAR APPLICATION, THE SILTSACK® CAN BE MADE FROM EITHER ONE OF THE ABOVE FABRICS WITH AN OIL-ABSORBANT FILLW INSERT OR, MADE COMPLETELY FROM AN OIL-ABSORBANT SILTSACK WITH A WOVEN FILLW INSERT.



JAN	JAN	JAN	AMW	CHECKED
JKA	JKA	JKA	JKA	DRAWN
2/22/2016	1/21/2016	11/24/2015	10/05/2015	DATE
ADDENDUM 1	FINAL SUBMITTAL	PROJECT MANAGER REVIEW	SOIL BORING LOCATION SHEET	DESCRIPTION
03	02	01	00	REV.



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
S. DIVISION ST. RESURFACING
ROAD DET
SCALE PLAN: NTS
DRAWING No. 2015038 - 5

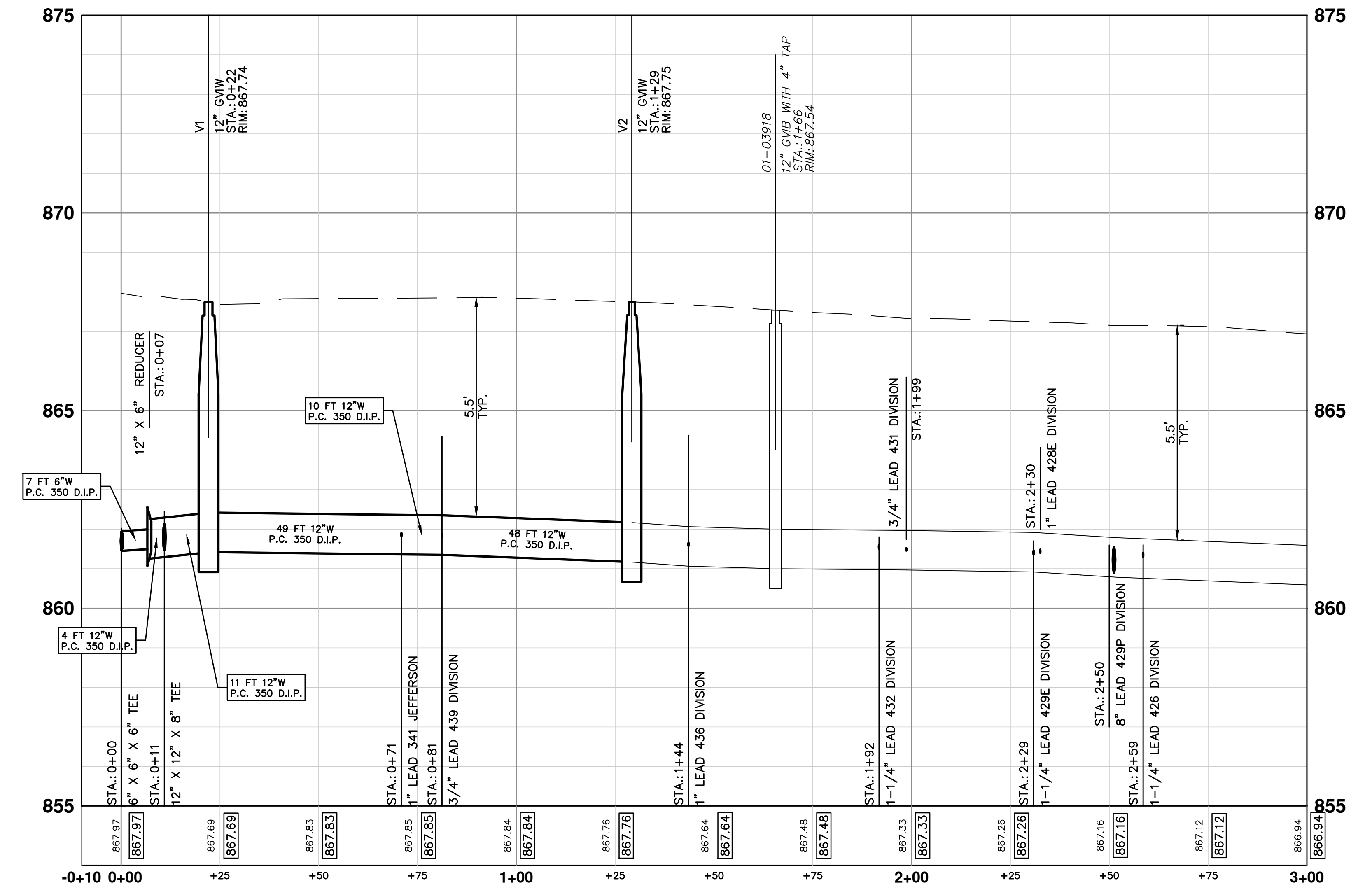



CAUTION
CRITICAL UTILITY

NOTES
QUANTITIES FOR SDR 35 PVC TO REPAIR ANY MIS-MARKED SANITARY LEADS ENCOUNTERED DURING WATER MAIN CONSTRUCTION ARE INCLUDED IN THE PROJECT. LEADS THAT ARE PROPERLY MARKED AND DAMAGED WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

WATER MAIN STRUCTURE TABLE					
STRUCTURE	TYPE	STATION	ALIGNMENT	RIM	DEPTH
T1	6" X 6" X 6" TEE	0+00	PrWatrDivision	862.02	???
R1	12" X 6" REDUCER	0+07	PrWatrDivision	867.89	6.93
V1	12" GVIW	0+22	PrWatrDivision	867.74	6.32
V2	12" GVIW	1+29	PrWatrDivision	867.75	6.58

PRWATRDIVISION





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PUBLIC SERVICES
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ANN ARBOR, MI 48106-0667
www.a2gov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
S. DIVISION ST. RESURFACING
WATER
PRWATR DIVISION

SHEET No. **9 OF 41**

SCALE PLAN: ##### PROFILE: 1" = X'
DRAWING No. **2015038-9**

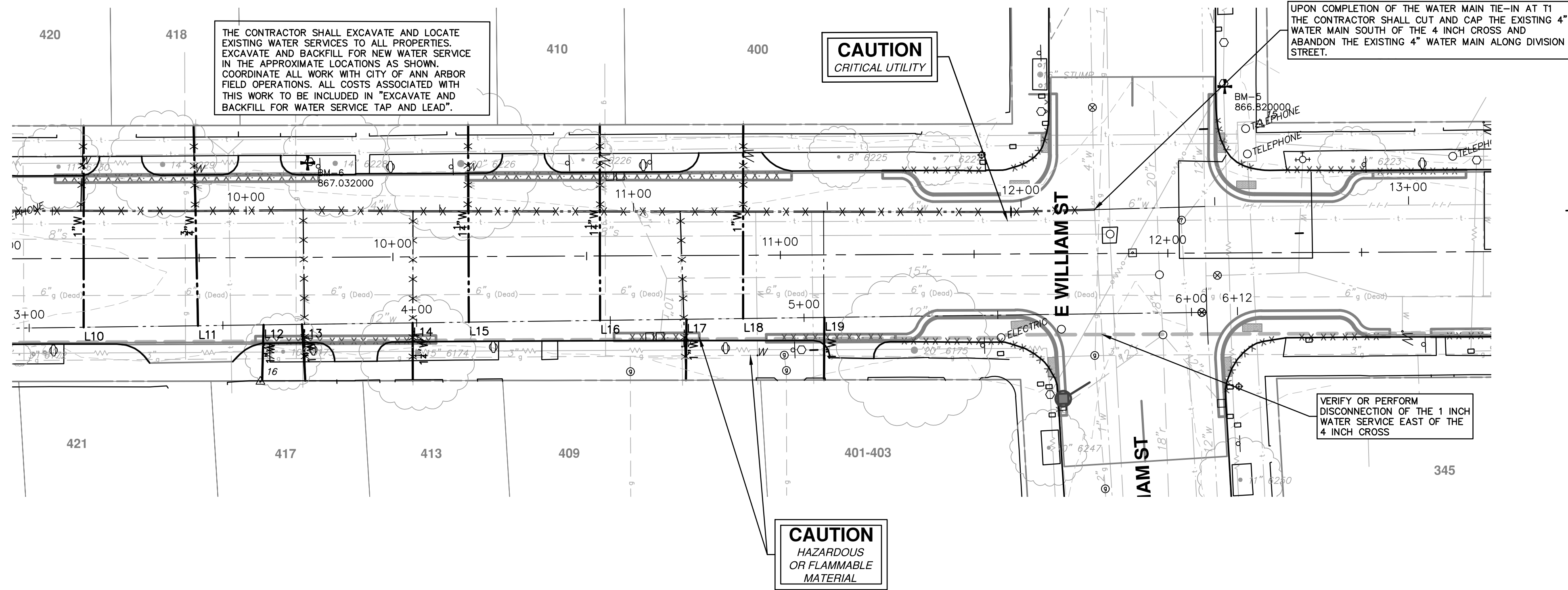
REV.	DATE	DESCRIPTION
03	2/22/2016	ADDENDUM 1
02	1/21/2016	FINAL SUBMITTAL
01	11/24/2015	PROJECT MANAGER REVIEW
00	10/05/2015	SOIL BORING LOCATION SHEET

JAN JKA
JAN JKA
JAN JKA
AMW JKA

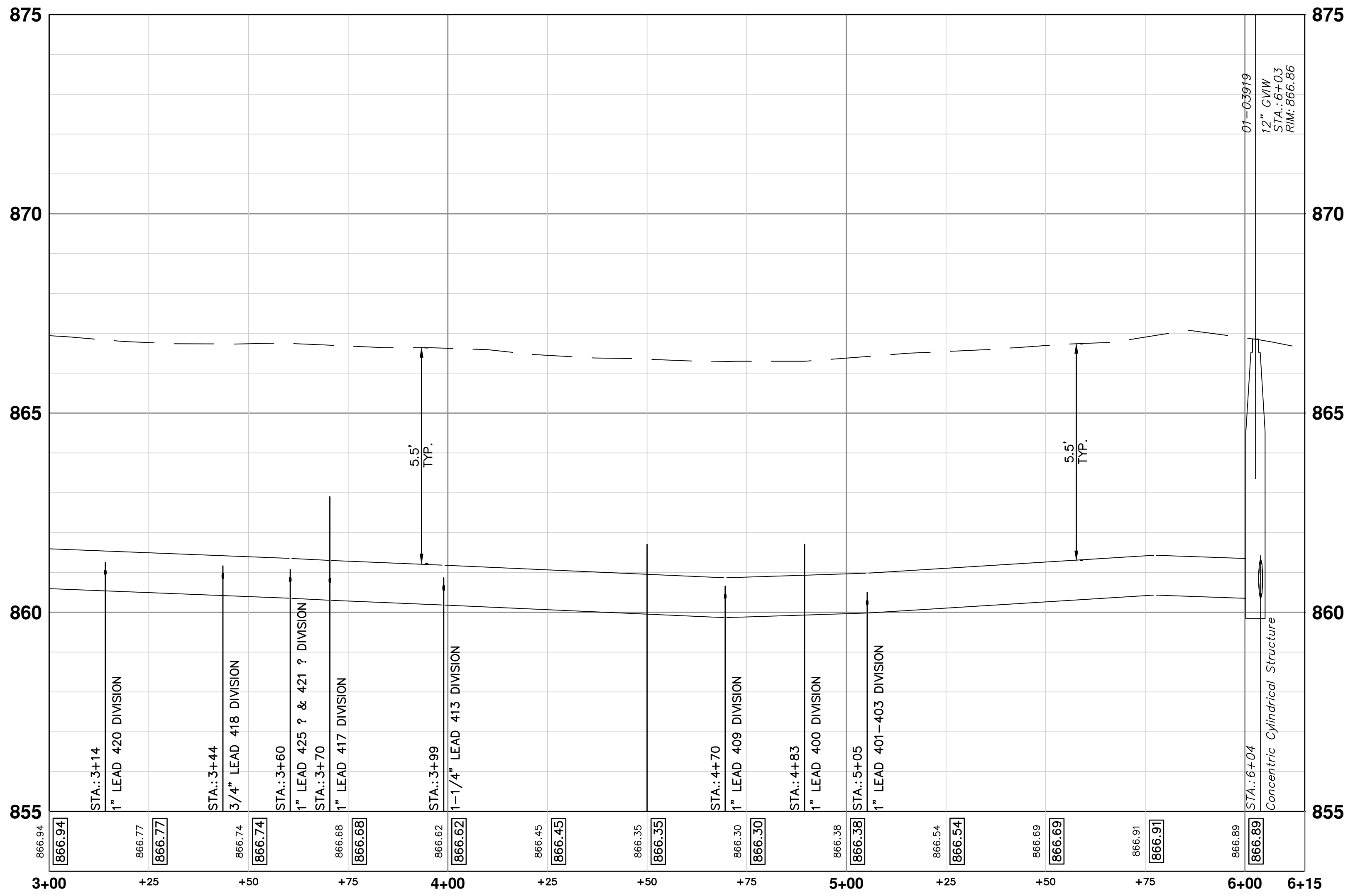
CHECKED
DRAWN
DATE

Know what's below. Call before you dig.

S:\Project Management\Design\2015038 Division\Plan Production\2015038 WATER.dwg Dwg Created: 23-Nov-15 - _o2 standard bw.stb - Plot Date: 22-Feb-16



PRWATRDIVISION



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

S. DIVISION ST. RESURFACING

WATER

PRWATR DIVISION (2)

10 OF 41

SHEET No.

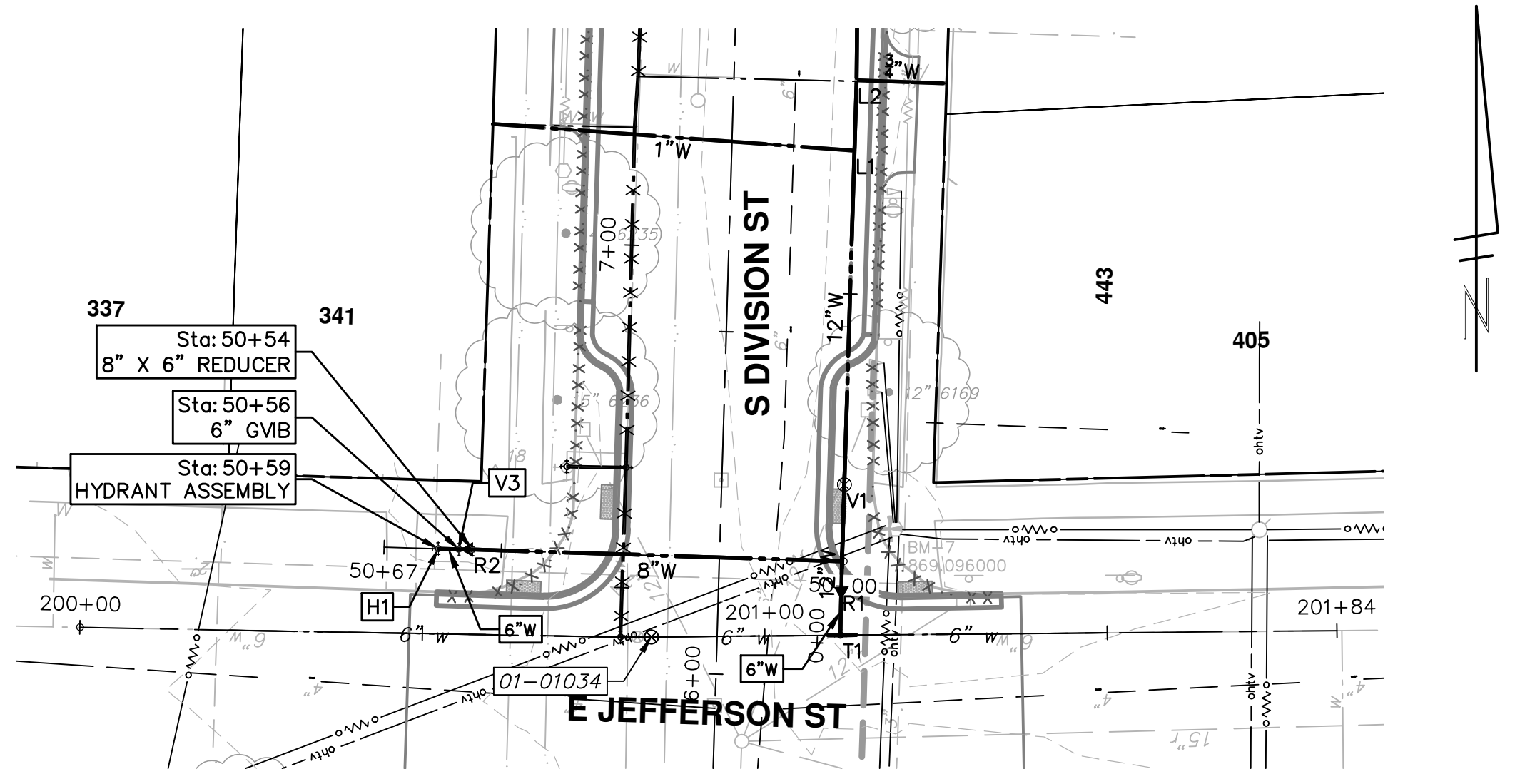
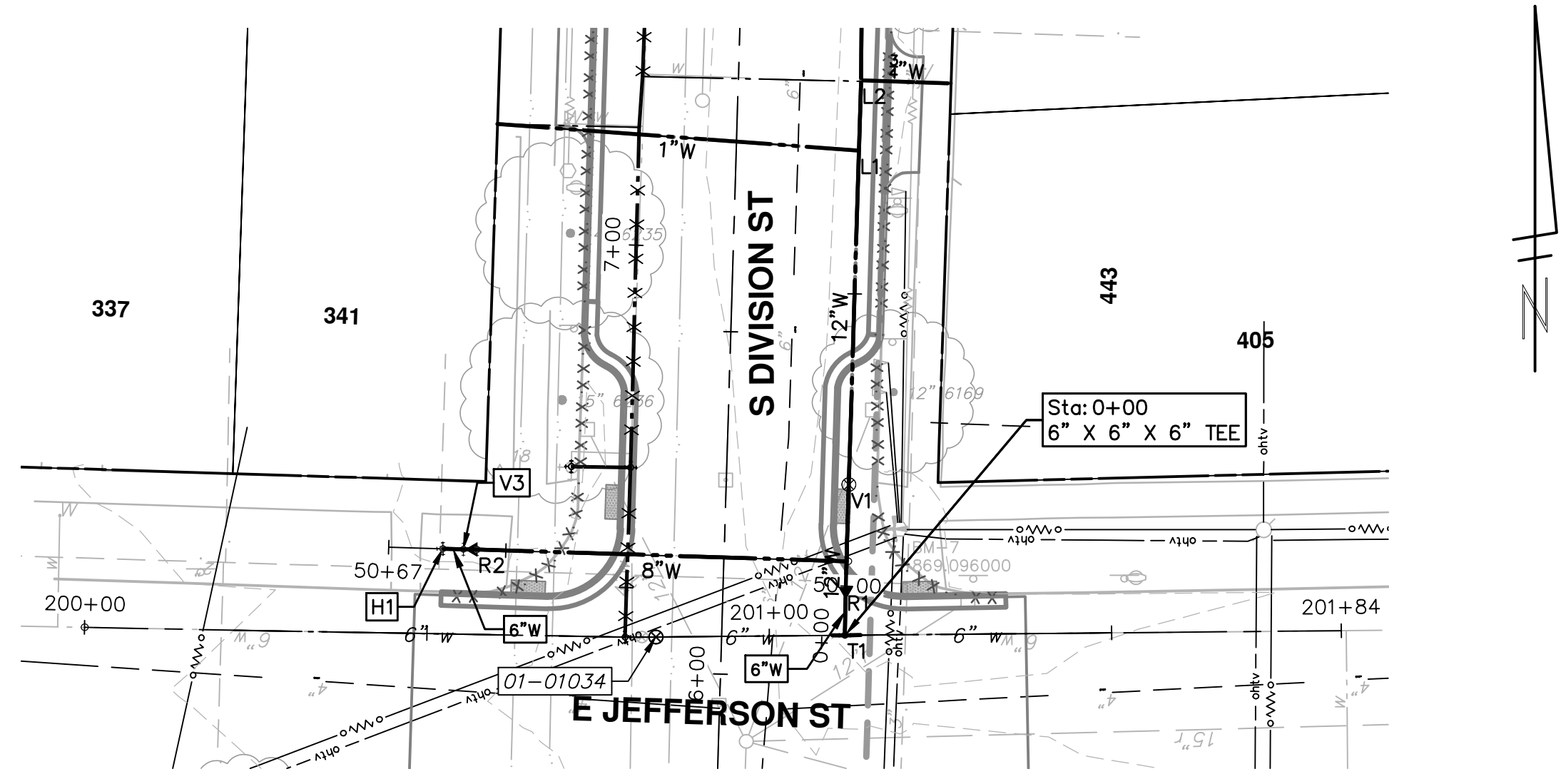
DRAWING No. 2015038-10

PROFILE: 1" = 4"

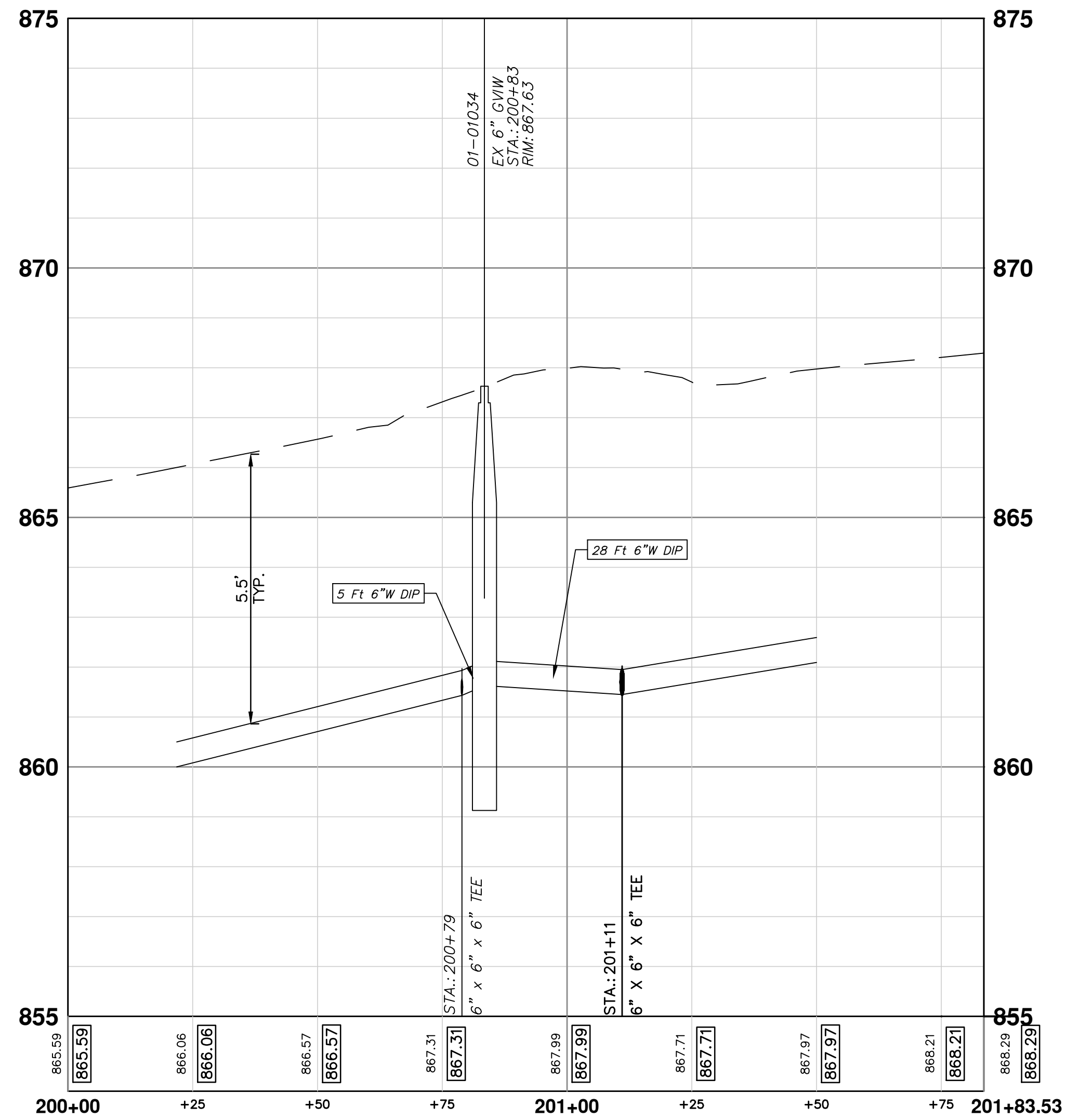
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	SOIL BORING LOCATION SHEET	10/05/2015	JKA	AMW
01	PROJECT MANAGER REVIEW	11/24/2015	JKA	JAN
02	FINAL SUBMITTAL	1/21/2016	JKA	JAN
03	ADDENDUM 1	2/22/2016	JKA	JAN

CITY OF ANN ARBOR
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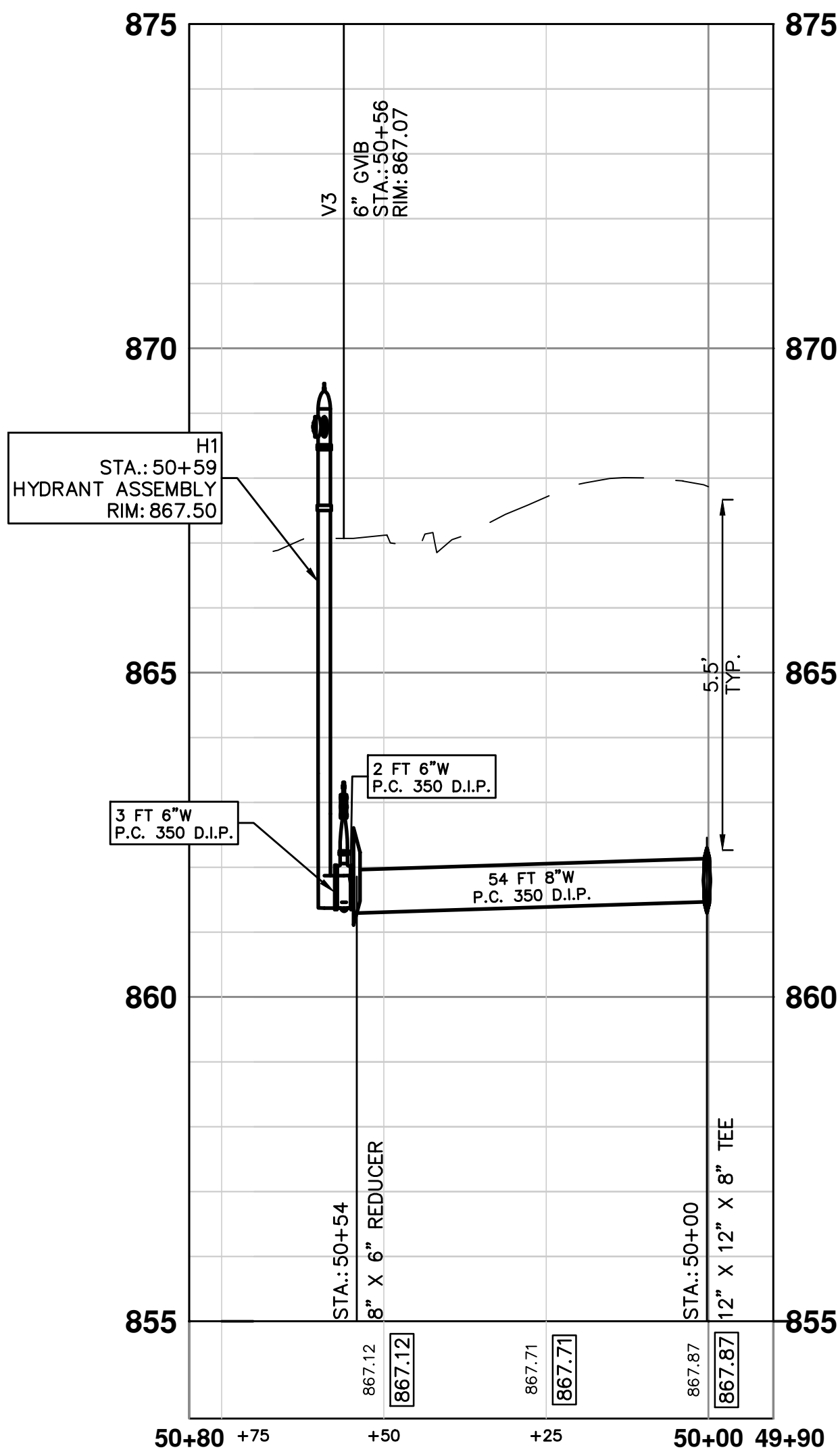
PRWATR JEFFERSON



WATER MAIN STRUCTURE TABLE					
STRUCTURE	TYPE	STATION	ALIGNMENT	RIM	DEPTH
T1	6" X 6" X 6" TEE	0+00	PrWatrDivision	862.02	???
01-01034	EX 6" GVIW	200+83	PrWatr Jefferson	867.63	8.00

WATER MAIN STRUCTURE TABLE					
STRUCTURE	TYPE	STATION	ALIGNMENT	RIM	DEPTH
R2	8" X 6" REDUCER	50+54	HYDRANT 1	862.01	1.02
V3	6" GVIW	50+56	HYDRANT 1	867.07	5.70
H1	HYDRANT ASSEMBLY	50+59	HYDRANT 1	867.50	6.13

HYDRANT 1



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

S. DIVISION ST. RESURFACING

WATER

PRWATR JEFFERSON H1

SHEET No. 11 OF 41

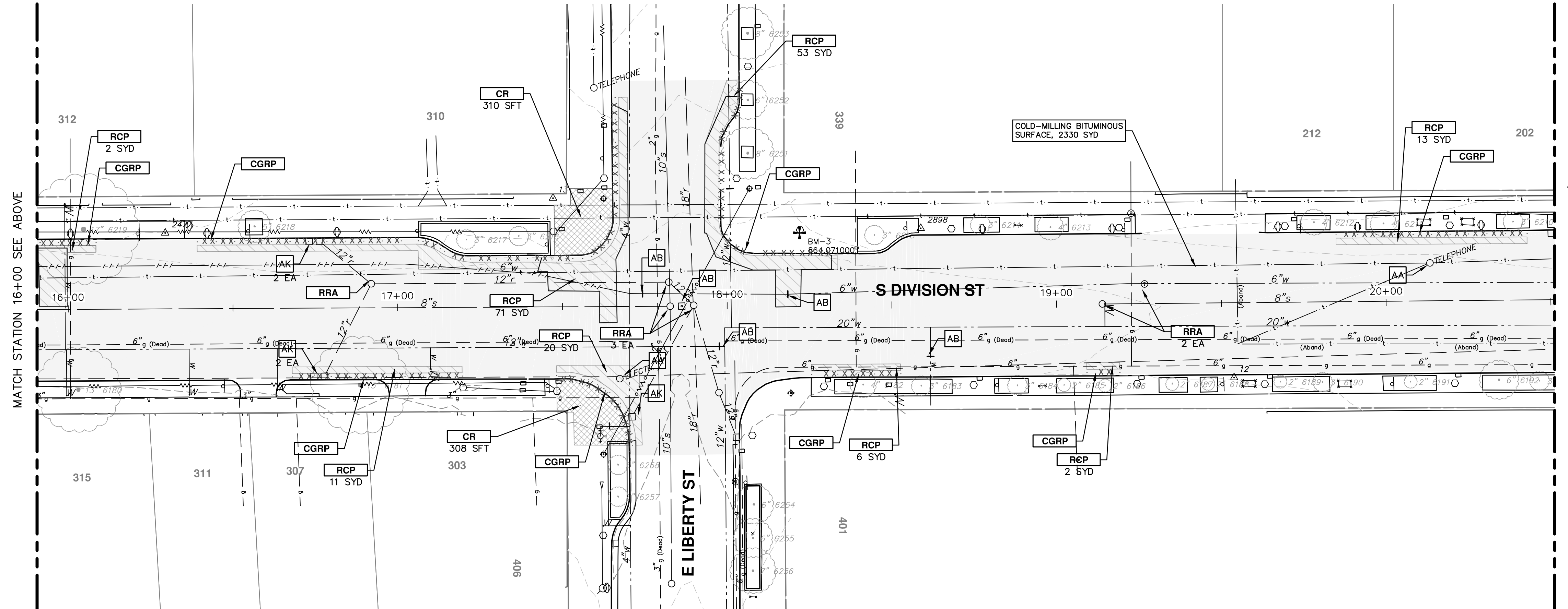
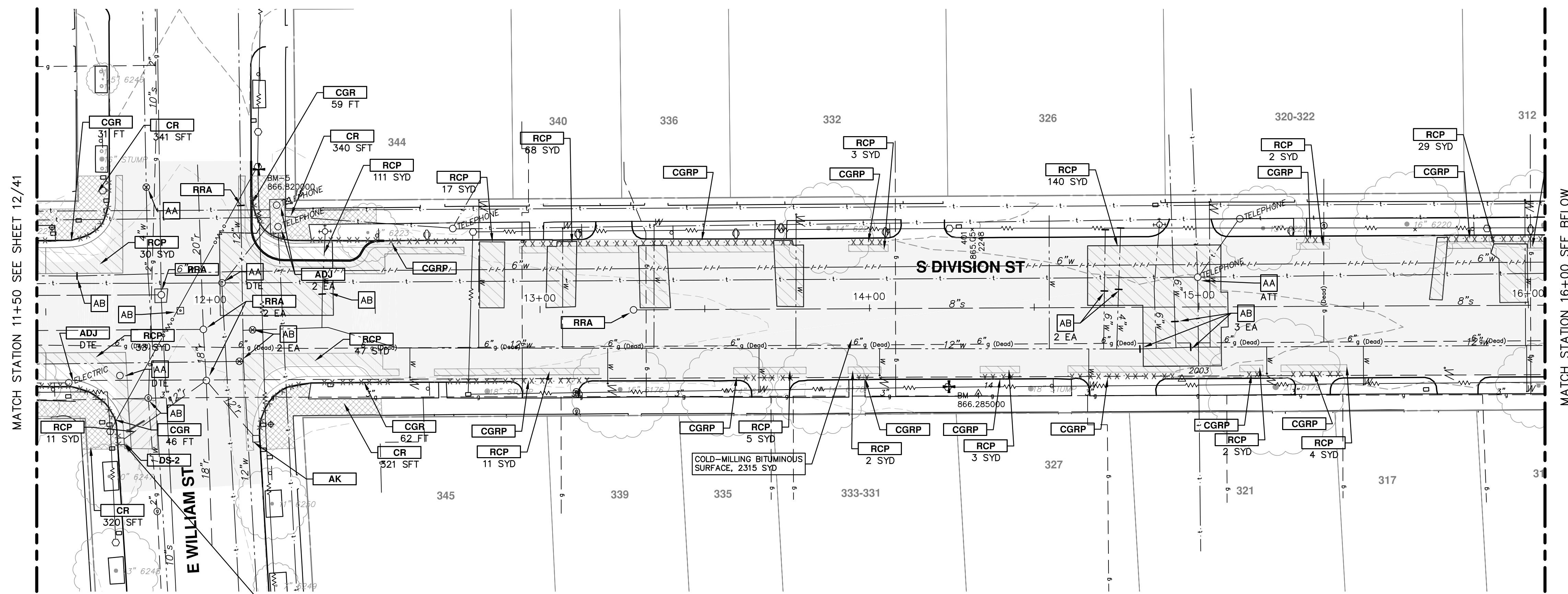
PROFILE: 1" = 2'

DRAWING No. 2015038-11

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-0647
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	ADDENDUM 1	2/22/2016	JKA	JAN
02	FINAL SUBMITTAL	1/21/2016	JKA	JAN
01	PROJECT MANAGER REVIEW	11/24/2015	JKA	JAN
00	SOIL BORING LOCATION SHEET	10/05/2015	JKA	AMW

Know what's below. Call before you dig.



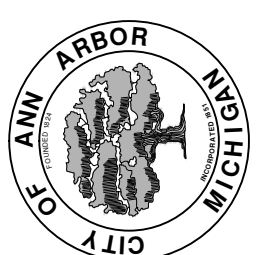
PRIOR TO COLD-MILLING OR REMOVING PAVEMENT, TRAFFIC SIGNAL "PUCKS" MUST BE REMOVED BY THE CITY OF ANN ARBOR TRAFFIC SIGNAL DEPARTMENT. COORDINATE REMOVALS ONE WEEK PRIOR TO COLD-MILLING OR PAVEMENT REMOVAL OPERATIONS.

CONSTRUCTION KEY	
KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE STRUCTURE COVER ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
S. DIVISION ST. RESURFACING
 REMOVALS & ADJUSTMENTS

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

DRAWING NO. 20150338-13
 SHEET NO. 13 OF 41

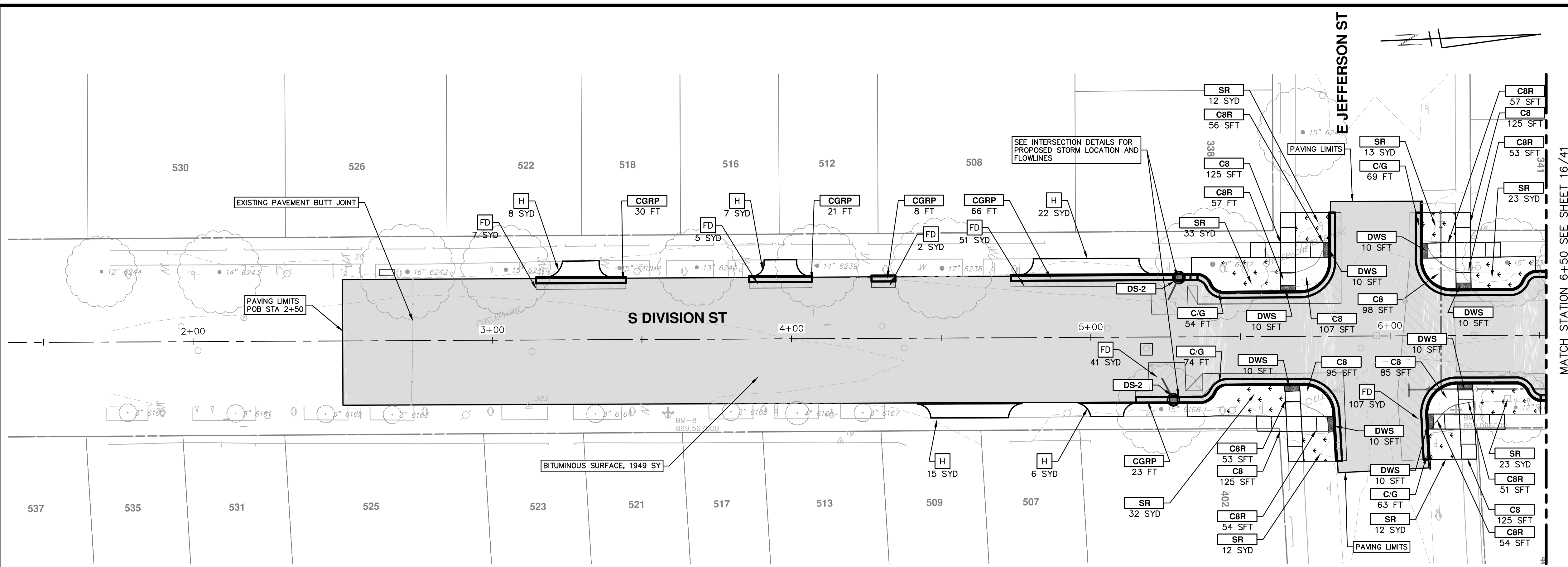


CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-8647
 WWW.A2GOV.ORG

03	ADDENDUM 1	2/22/2016	JKA
02	FINAL SUBMITTAL	1/21/2016	JKA
01	PROJECT MANAGER REVIEW	11/24/2015	JKA
00	SOIL BORING LOCATION SHEET	10/05/2015	AMW
REV.	DESCRIPTION	DATE	CHECKED

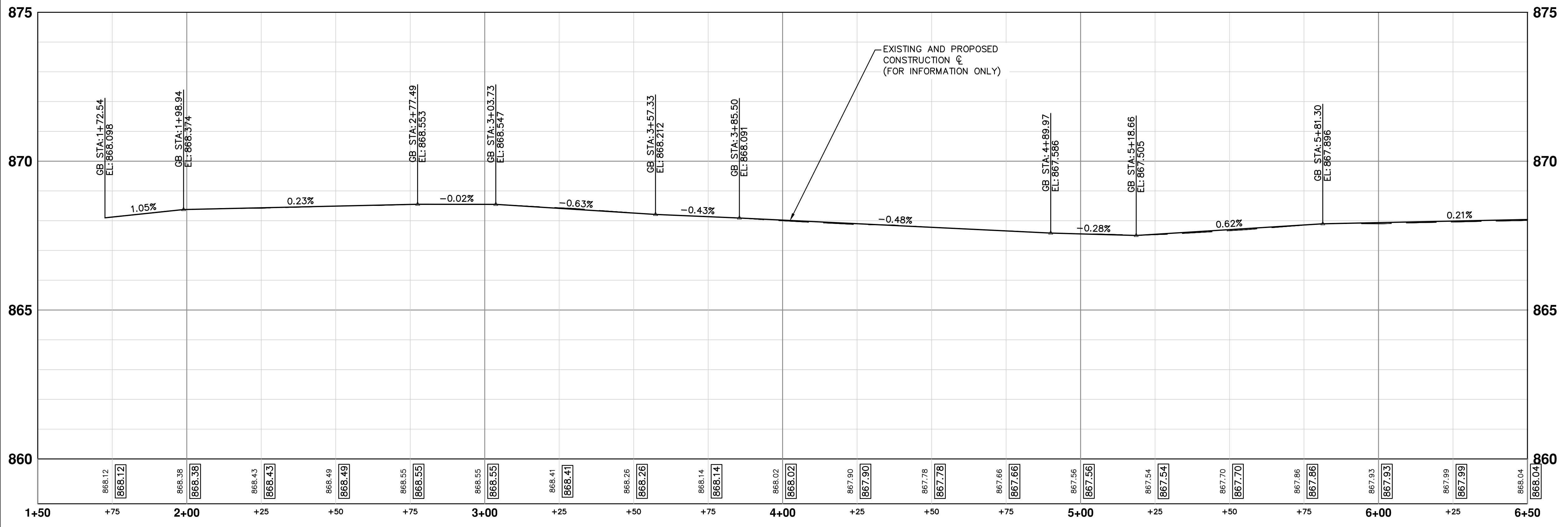
Know what's below. Call before you dig.

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- NOTES**
1. QUANTITIES FOR HAND HOLES HAVE BEEN PROVIDED TO REPLACE HAND HOLES AFFECTED BY BUMP OUT CONSTRUCTION.
 2. EMBANKMENT CIP QUANTITIES INCLUDES ALL WORK AND MATERIALS TO CONSTRUCT, EXTEND BUMP OUT, SIDEWALK, AND CURB THROUGH SUBBASE.
 3. ALL CURB AND GUTTER IS TO BE HIGH EARLY CONCRETE.
 4. ALL SIDEWALK AND RAMPS TO BE CONSTRUCTED WITH HIGH EARLY FIBER-MESH REINFORCED CONCRETE.
 5. AT ALL INTERSECTIONS INSTALL GEO-SYNTHETIC PAVING LAYER WITHIN DIVISION ST. ONLY. DO NOT PLACE IN LEGS OF SIDE INTERSECTIONS.

DIVISION (1)



CONSTRUCTION KEY


KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION



Know what's below. Call before you dig.

01	PROJECT MANAGER REVIEW	JKA	11/24/2015	JKA	AMW	CHECKED			
00	SOIL BORING LOCATION SHEET	JKA	10/05/2015	JKA	AMW	CHECKED			
	DESCRIPTION		DATE						

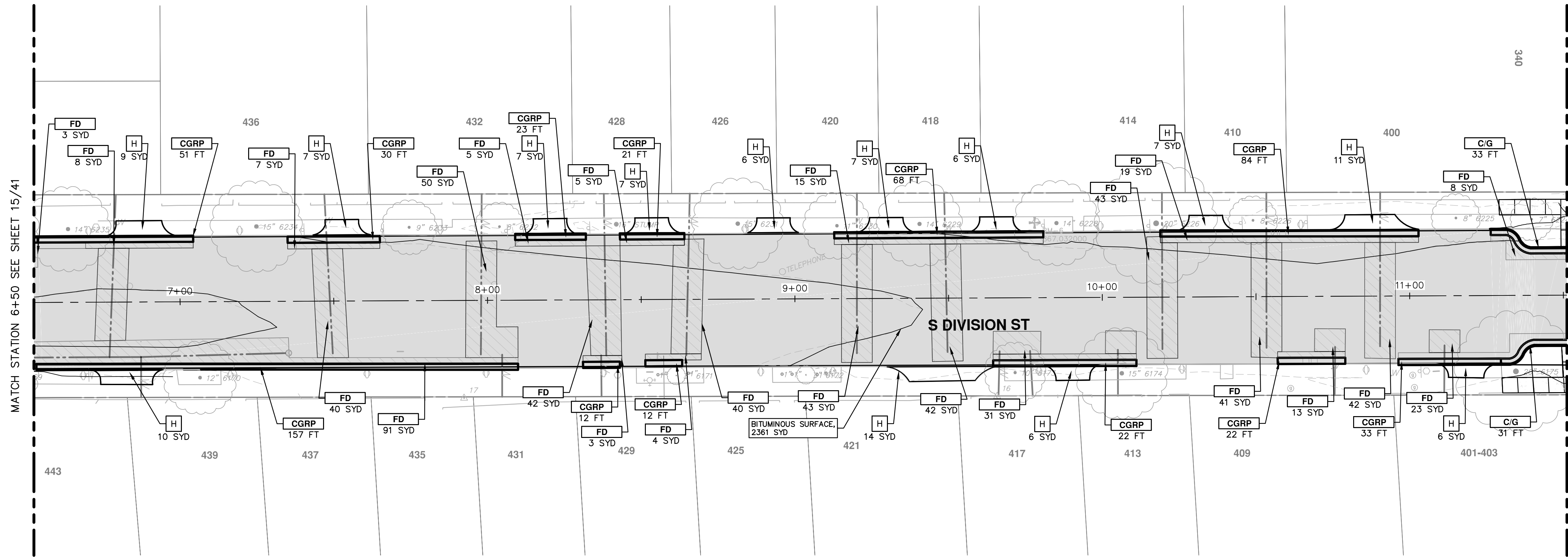
CITY OF ANN ARBOR PUBLIC SERVICES
 301 EAST HURON STREET
 P.O. BOX 866
 ANN ARBOR MI 48106-0867
 www.aagov.org



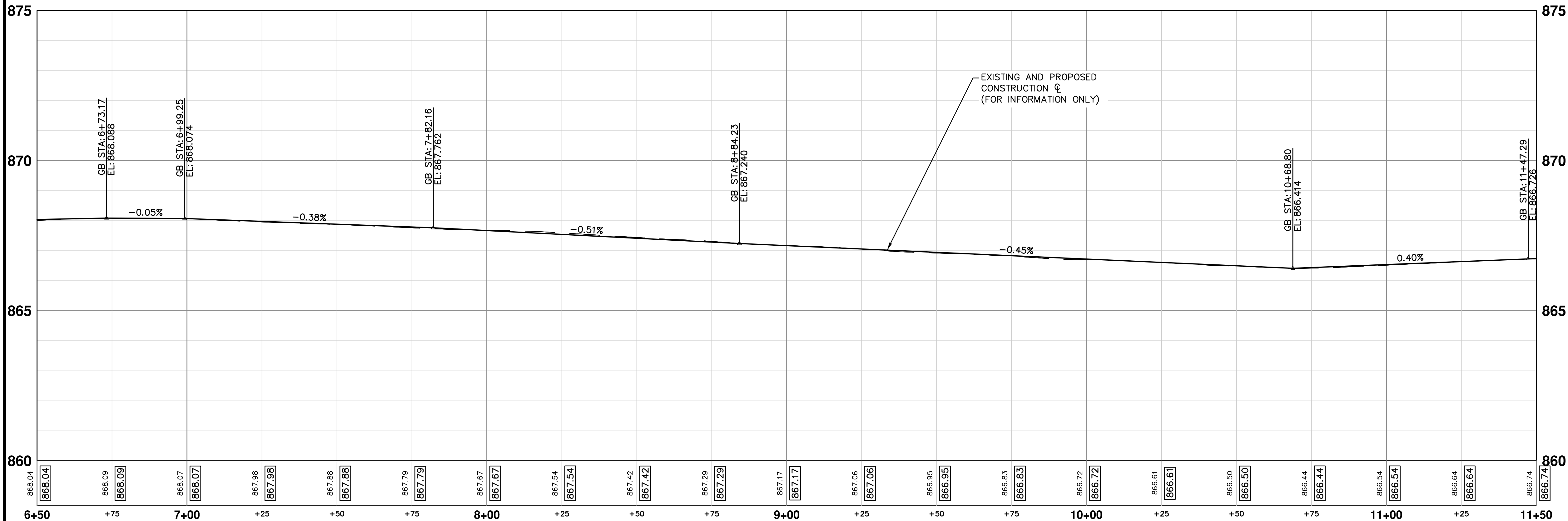
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
S. DIVISION ST. RESURFACING
 ROAD
 ROAD 1+50 TO 6+50

DRAWING No. **2015038-15**
 SHEET No. **15 OF 41**

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DIVISION (1)

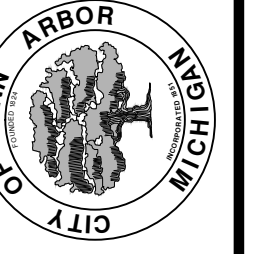


- NOTES**
1. QUANTITIES FOR HAND HOLES HAVE BEEN PROVIDED TO REPLACE HAND HOLES AFFECTED BY BUMP OUT CONSTRUCTION.
 2. EMBANKMENT CIP QUANTITIES INCLUDES ALL WORK AND MATERIALS TO CONSTRUCT, EXTEND BUMP OUT, SIDEWALK, AND CURB THROUGH SUBBASE.
 3. ALL CURB AND GUTTER IS TO BE HIGH EARLY CONCRETE.
 4. ALL SIDEWALK AND RAMPS TO BE CONSTRUCTED WITH HIGH EARLY FIBER-MESH REINFORCED CONCRETE.
 5. AT ALL INTERSECTIONS INSTALL GEO-SYNTHETIC PAVING LAYER WITHIN DIVISION ST. ONLY, DO NOT PLACE IN LEGS OF SIDE INTERSECTIONS.

CONSTRUCTION KEY	
KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE STRUCTURE COVER ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION



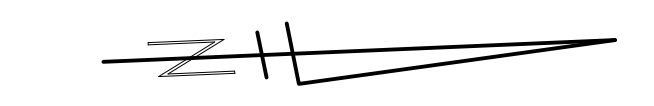
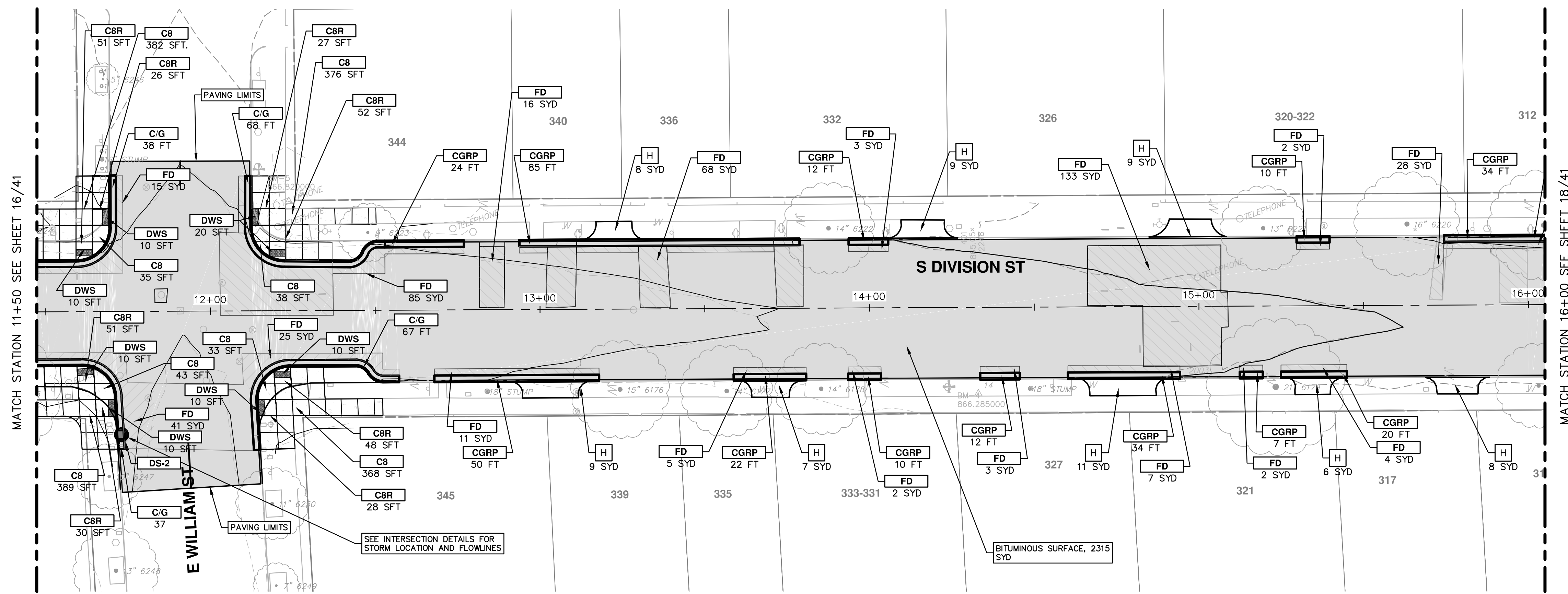
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PUBLIC SERVICES
301 EAST HURON STREET
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
ROAD
S. DIVISION ST. RESURFACING
ROAD 6+50 TO 11+50

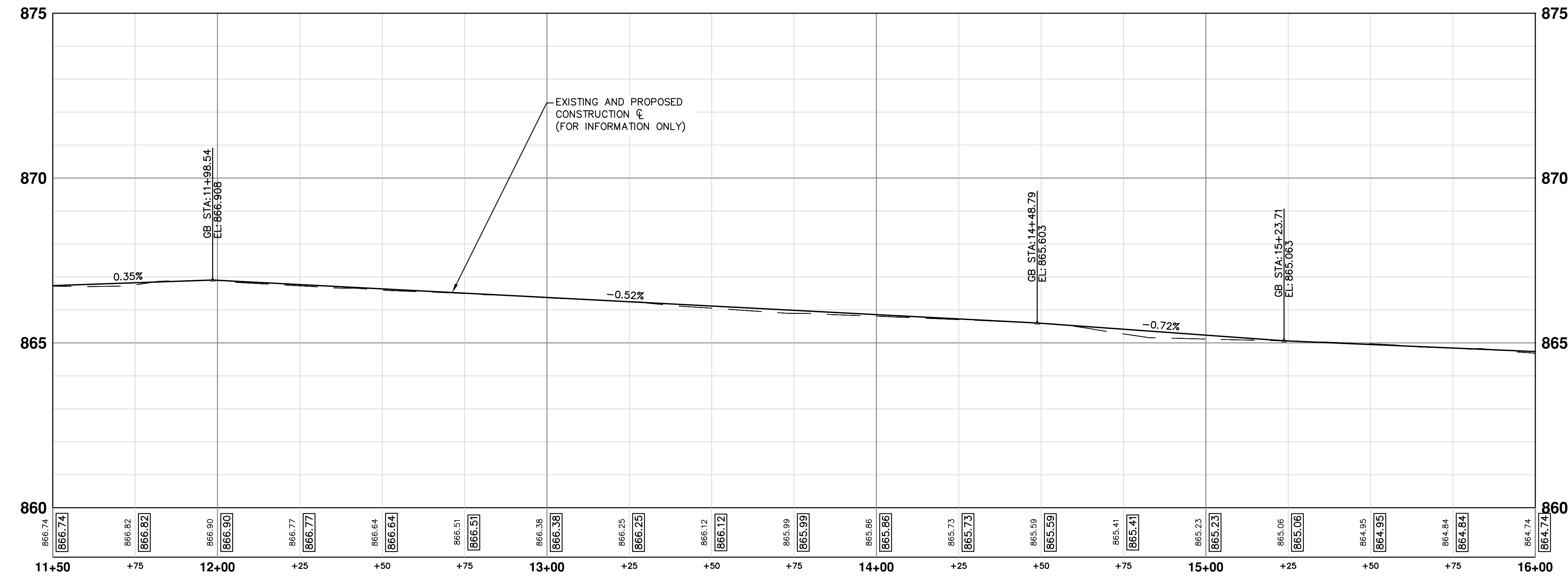
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2015038-16
SHEET No.

S:\Project Management\Design\2015038 Division\Plan Production\2015038 PPRD.dwg Dwg Created: 24-Nov-15 - a2 standard bw.stb - Plot Date: 22-Feb-16



- NOTES**
1. QUANTITIES FOR HAND HOLES HAVE BEEN PROVIDED TO REPLACE HAND HOLES AFFECTED BY BUMP OUT CONSTRUCTION.
 2. EMBANKMENT CIP QUANTITIES INCLUDES ALL WORK AND MATERIALS TO CONSTRUCT, EXTEND BUMP OUT, SIDEWALK, AND CURB THROUGH SUBBASE.
 3. ALL CURB AND GUTTER IS TO BE HIGH EARLY CONCRETE.
 4. ALL SIDEWALK AND RAMPS TO BE CONSTRUCTED WITH HIGH EARLY FIBER-MESH REINFORCED CONCRETE.
 5. AT ALL INTERSECTIONS INSTALL GEO-SYNTHETIC PAVING LAYER WITHIN DIVISION ST. ONLY. DO NOT PLACE IN LEGS OF SIDE INTERSECTIONS.
 6. ON WILLIAM AND DIVISION INTERSECTION QUADRANTS ONLY, DETECTABLE WARNING SURFACE (DWS) SHALL BE CAST IRON. (80 SFT).

DIVISION (1)



CONSTRUCTION KEY

KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION

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

01	PROJECT MANAGER REVIEW	JKA	11/24/2015	JKA	DRAWN	CHECKED
00	SOIL BORING LOCATION SHEET		10/05/2015			
	REV.		DATE		DESCRIPTION	

CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR MI 48106-8647
www.a2gov.org

ANN ARBOR MI CITY

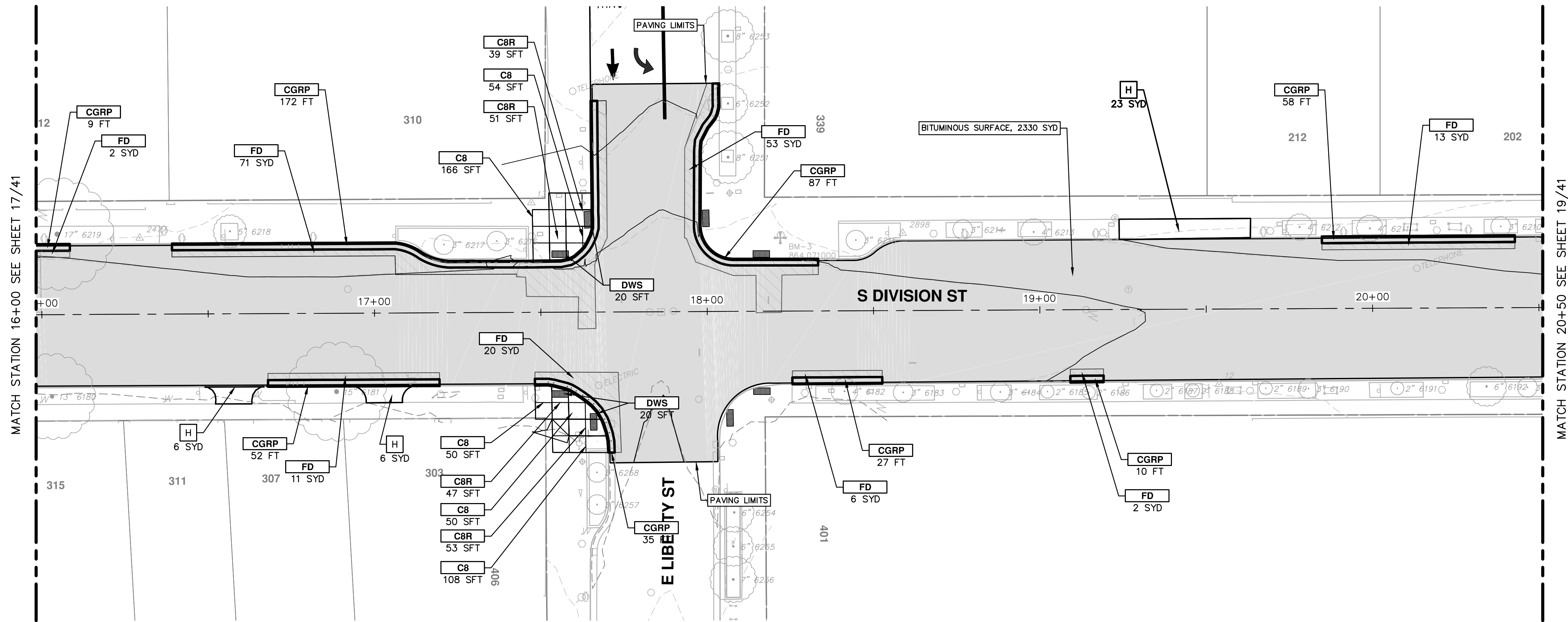
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
S. DIVISION ST. RESURFACING
ROAD
ROAD 11+50 TO 16+00

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

DRAWING No. **2015038-17**

SHEET No. **17 OF 41**

S:\Project Management\Design\2015038 Division\Plan Production\2015038 PPRD.dwg Dwg Created: 24-Nov-15 - _a2 standard bw.stb - Plot Date: 22-Feb-16



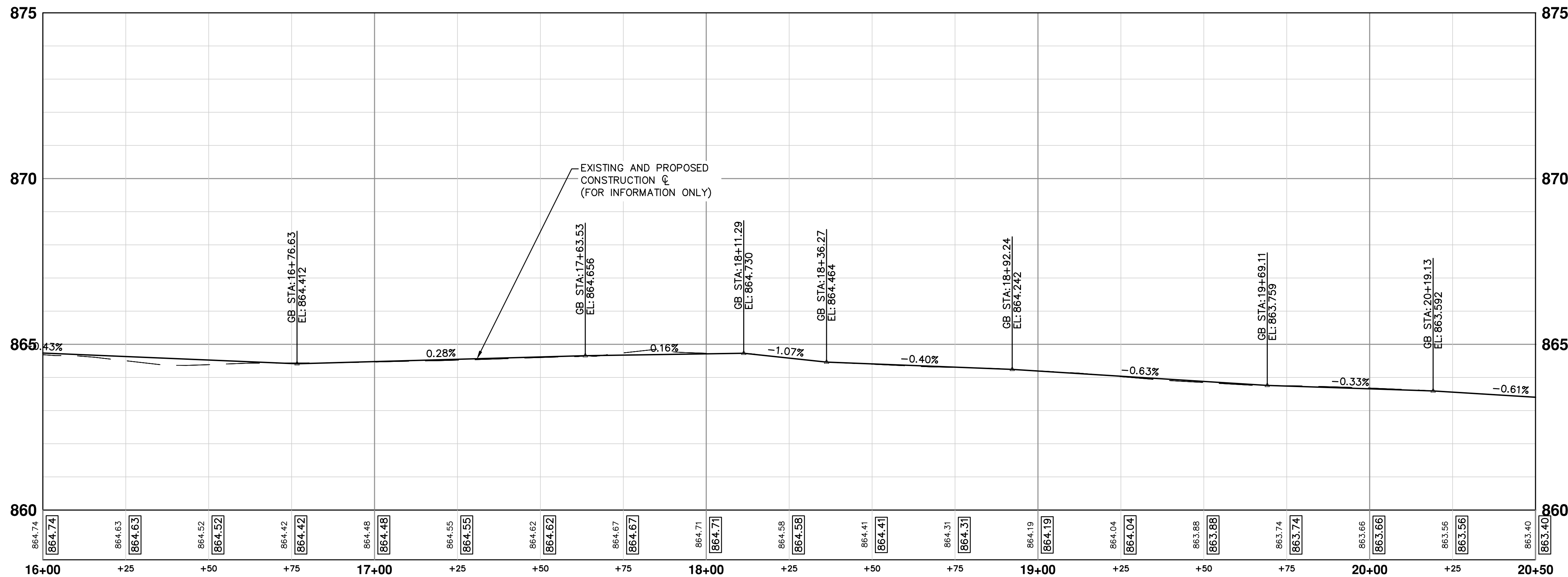
NOTES

1. QUANTITIES FOR HAND HOLES HAVE BEEN PROVIDED TO REPLACE HAND HOLES AFFECTED BY BUMP OUT CONSTRUCTION.
2. EMBANKMENT CIP QUANTITIES INCLUDES ALL WORK AND MATERIALS TO CONSTRUCT, EXTEND BUMP OUT, SIDEWALK, AND CURB THROUGH SUBBASE.
3. ALL CURB AND GUTTER IS TO BE HIGH EARLY CONCRETE.
4. ALL SIDEWALK AND RAMPS TO BE CONSTRUCTED WITH HIGH EARLY FIBER-MESH REINFORCED CONCRETE.
5. AT ALL INTERSECTIONS INSTALL GEO-SYNTHETIC PAVING LAYER WITHIN DIVISION ST. ONLY. DO NOT PLACE IN LEGS OF SIDE INTERSECTIONS.

CONSTRUCTION KEY

KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION

DIVISION (1)



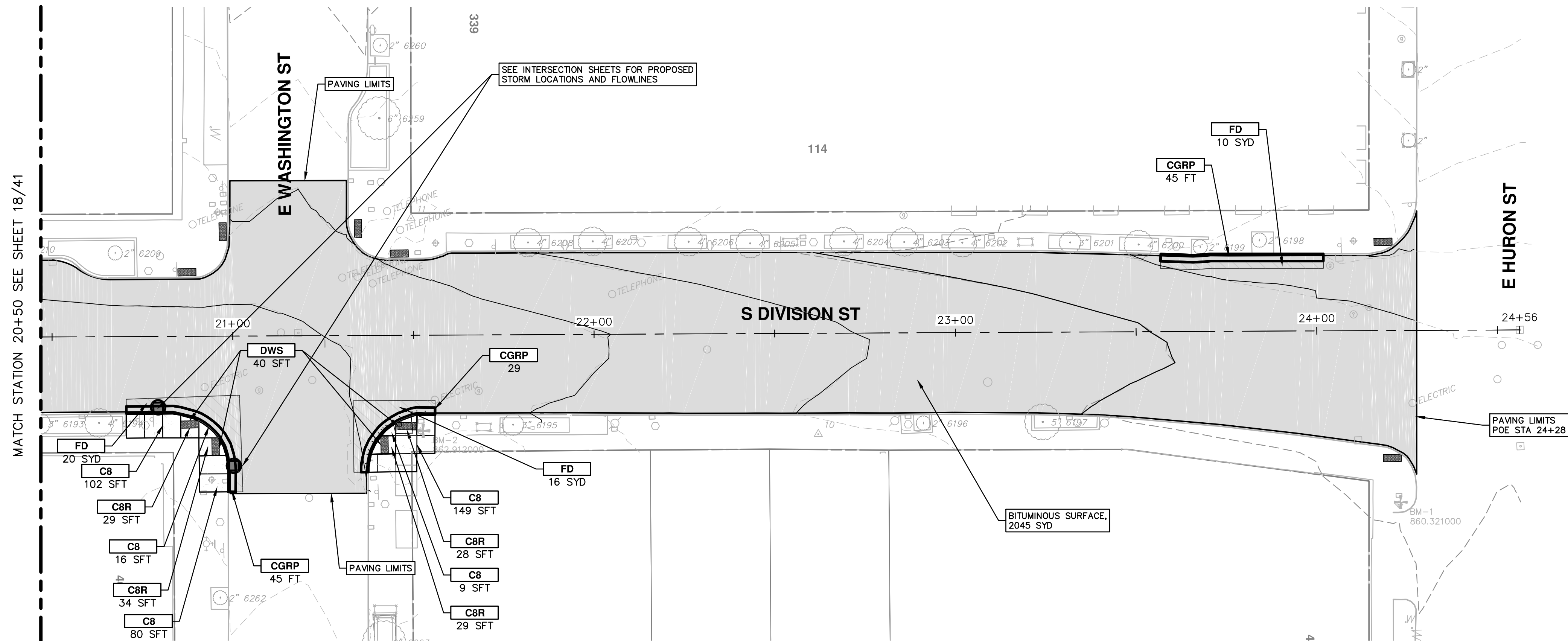
REV.	DATE	DESCRIPTION
01	11/24/2015	PROJECT MANAGER REVIEW
00	10/05/2015	SOIL BORING LOCATION SHEET

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PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR MI 48106-0667
www.a3gov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
S. DIVISION ST. RESURFACING
ROAD
ROAD 16+00 TO 20+50

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

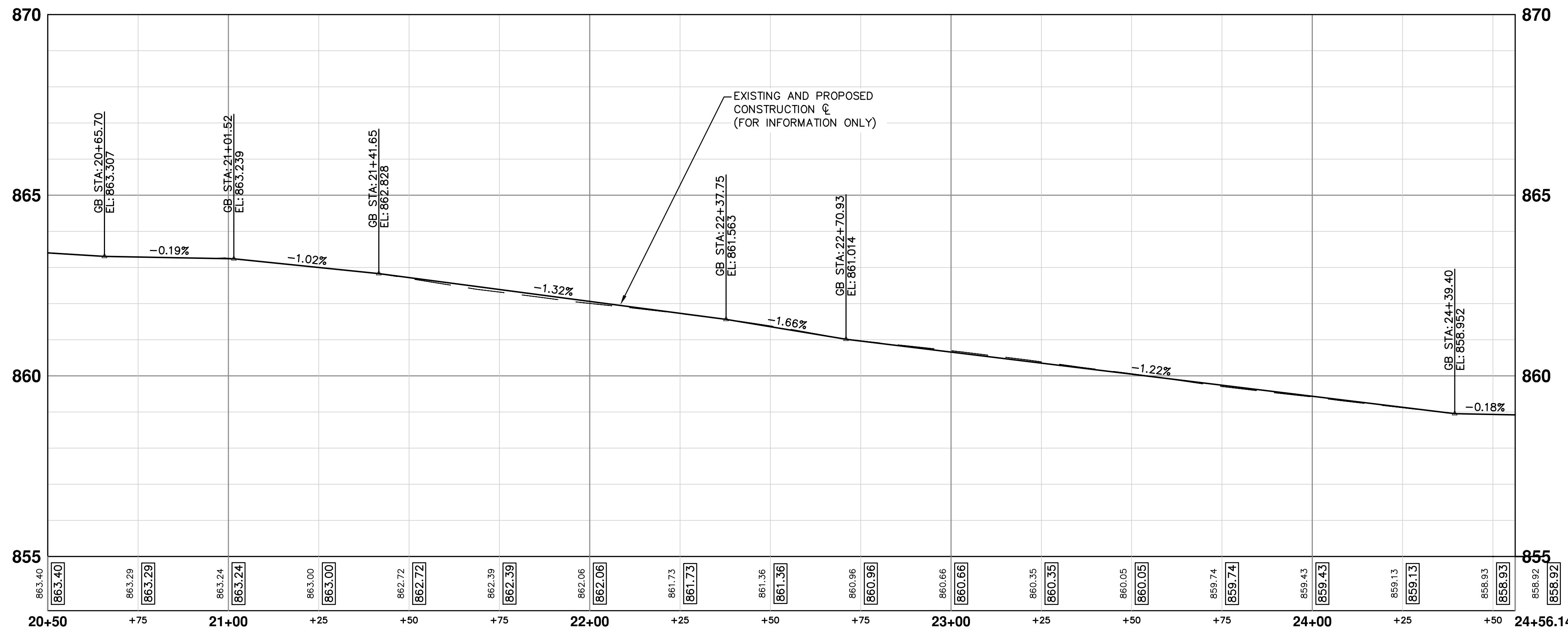
DRAWING No. 2015038-18
SHEET No. 18 OF 41




- NOTES**
1. QUANTITIES FOR HAND HOLES HAVE BEEN PROVIDED TO REPLACE HAND HOLES AFFECTED BY BUMP OUT CONSTRUCTION.
 2. EMBANKMENT CIP QUANTITIES INCLUDES ALL WORK AND MATERIALS TO CONSTRUCT, EXTEND BUMP OUT, SIDEWALK, AND CURB THROUGH SUBBASE.
 3. ALL CURB AND GUTTER IS TO BE HIGH EARLY CONCRETE.
 4. ALL SIDEWALK AND RAMPS TO BE CONSTRUCTED WITH HIGH EARLY FIBER-MESH REINFORCED CONCRETE.
 5. AT ALL INTERSECTIONS INSTALL GEO-SYNTHETIC PAVING LAYER WITHIN DIVISION ST. ONLY. DO NOT PLACE IN LEGS OF SIDE INTERSECTIONS.

CONSTRUCTION KEY	
KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
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DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE STRUCTURE COVER ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION


DIVISION (1)





Know what's below.
Call before you dig.

01	PROJECT MANAGER REVIEW	11/24/2015	JKA	JKA	JAN	CHECKED			
00	SOIL BORING LOCATION SHEET	10/05/2015	JKA	JKA	AMW	DRAWN			
	REV.	DATE					DESCRIPTION		



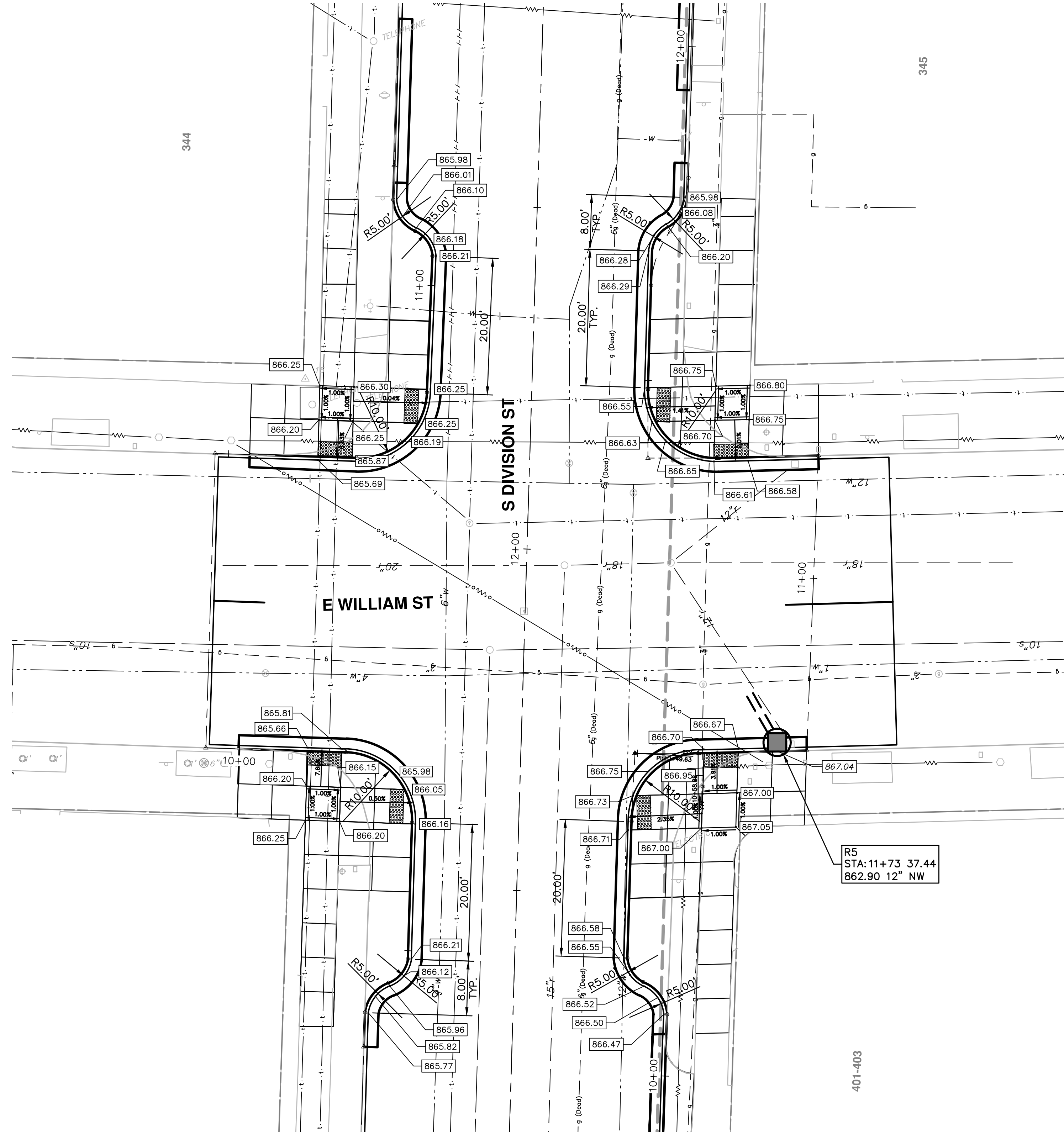
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PUBLIC SERVICES
301 EAST HURON STREET
PO BOX 866
ANN ARBOR MI 48106-0867
www.a2gov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
S. DIVISION ST. RESURFACING
ROAD
ROAD 20+50 TO 24+50

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


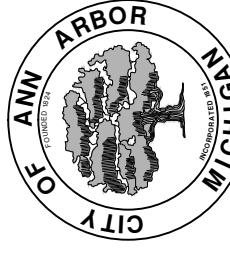

DRAWING No. **2015038-19**

SHEET No. **19 OF 41**

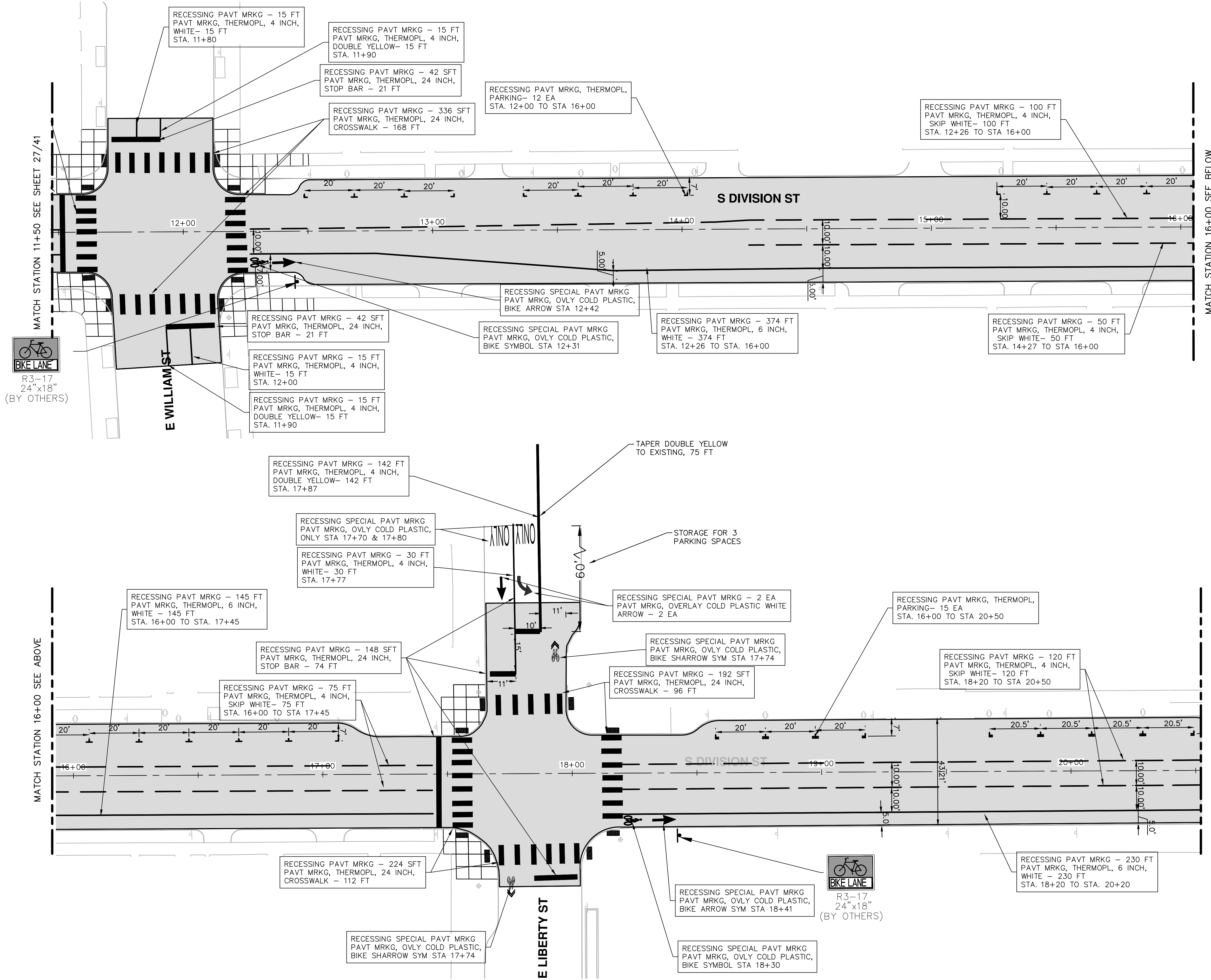


NOTES

1. PROPOSED GUTTER PAN TO BE OVERLAID UPON PAVING. ELEVATIONS SHOWN ARE TO TOP COURSE OF PROPOSED HMA OVERLAY.
2. ON WILLIAM AND DIVISION INTERSECTION QUADRANTS ONLY, DETECTABLE WARNING SURFACE (DWS) SHALL BE CAST IRON. (80 SFT).

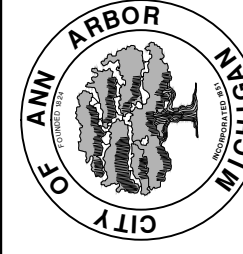
 Know what's below. Call Before you dig.				
03 ADDENDUM 1 02 FINAL SUBMITTAL 01 PROJECT MANAGER REVIEW 00 SOIL BORING LOCATION SHEET	2/22/2016 1/21/2016 11/24/2015 10/05/2015	JKA JKA JKA JKA	JAN JAN JAN AMW	DRAWN CHECKED
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 86600 ANN ARBOR MI 48108-8667 www.a2gov.org				
				
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR S. DIVISION ST. RESURFACING INTERSECTIONS E WILLIAM ST				
SCALE PLAN: 1" = 10' 		DRAWING No. 2015038-21		
SHEET No. 21 OF 41				

S:\Project Management\Design\2015038 Division\Plan Production\2015038 PMARK.dwg Dwg Created: 4-Jan-16 - a2_standard bw.stb - Plot Date: 22-Feb-16



REV.	DESCRIPTION	DATE	BY	CHECKED
03	ADDENDUM 1	2/22/2016	JKA	JKA
02	FINAL SUBMITTAL	1/21/2016	JKA	JKA
01	PROJECT MANAGER REVIEW	11/24/2015	JKA	JKA
00	SOIL BORING LOCATION SHEET	10/05/2015	AMW	AMW

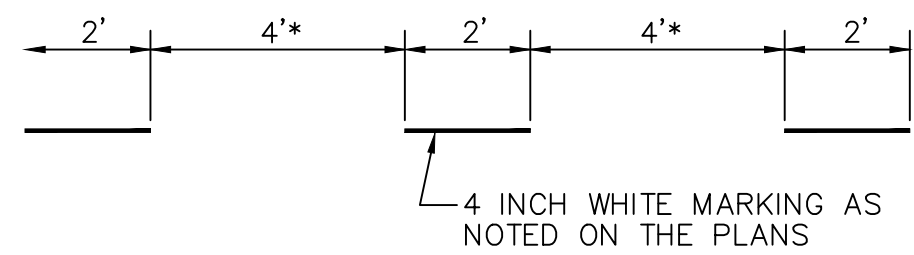
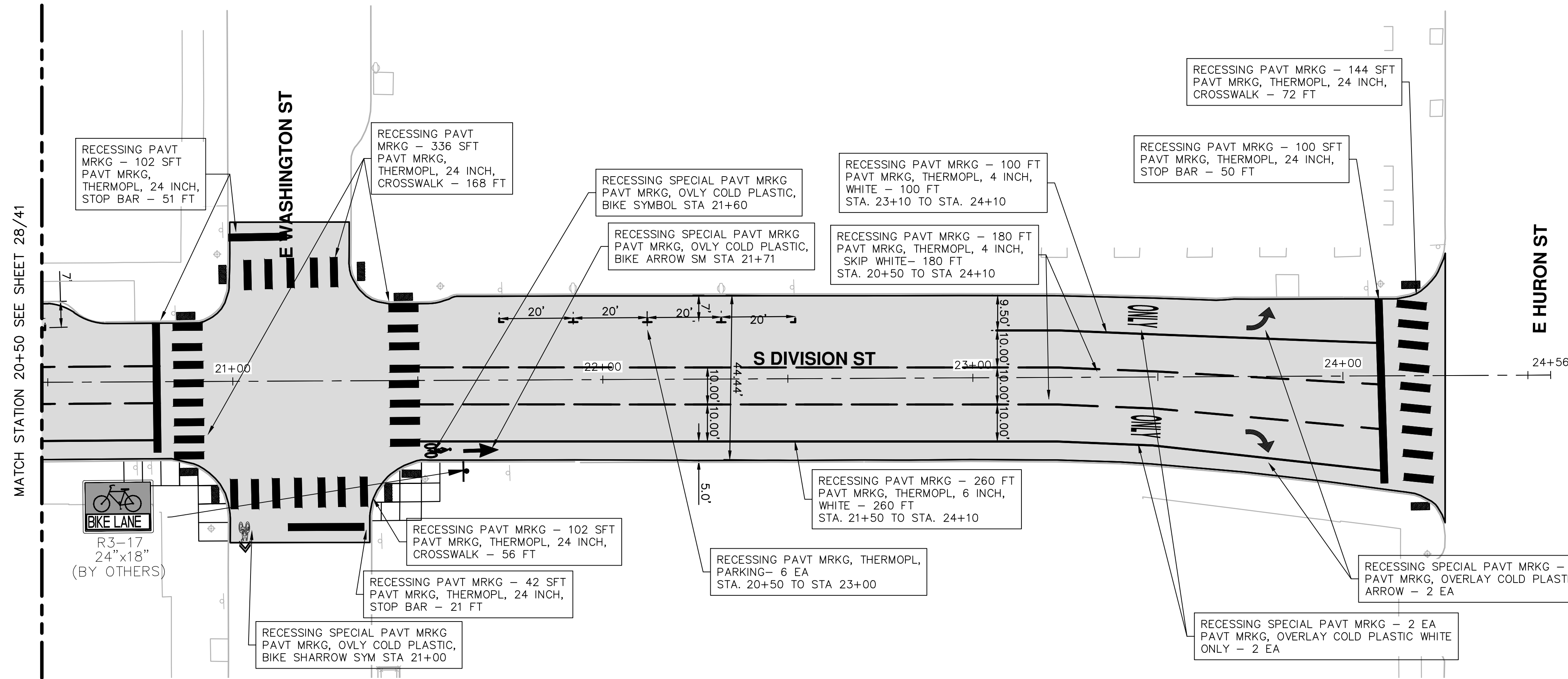
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
PO BOX 8647
ANN ARBOR MI 48108-8647
www.a2gov.org



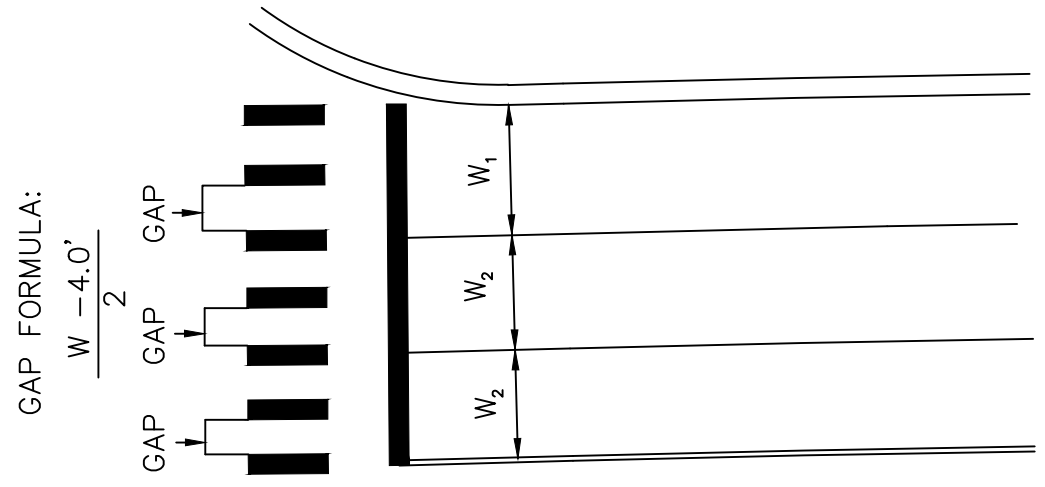
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
S. DIVISION ST. RESURFACING
PAVEMENT MARKINGS
PMARK 11+50 TO 20+50

SCALE PLAN: 1" = 20'
DRAWING No. 2015038-28

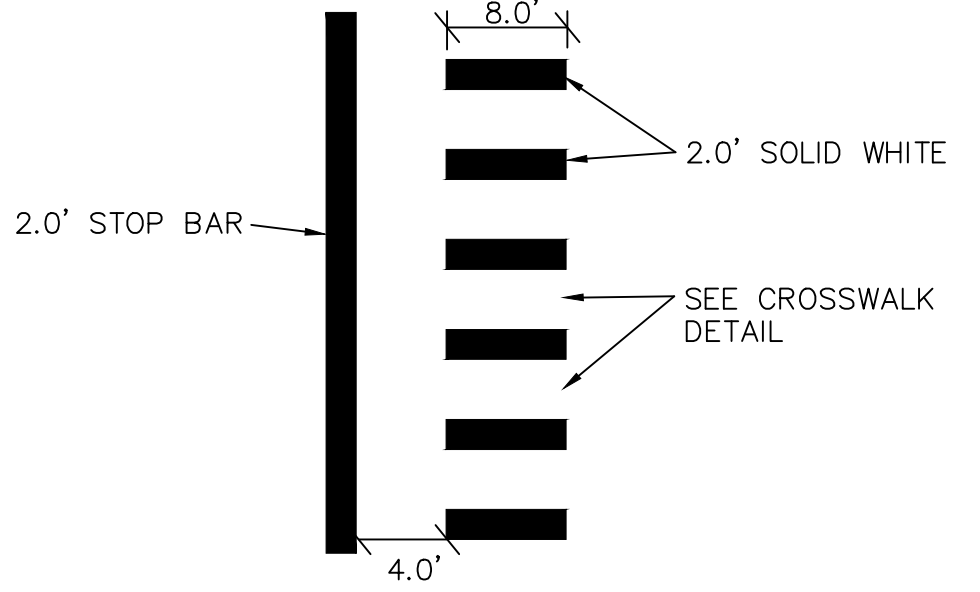
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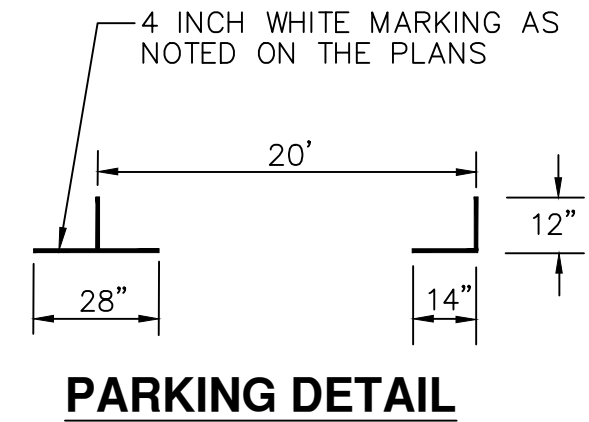
DOTTED LINE DETAIL
* NOTE FOR BROKEN LINE, USE 6" GAPS.



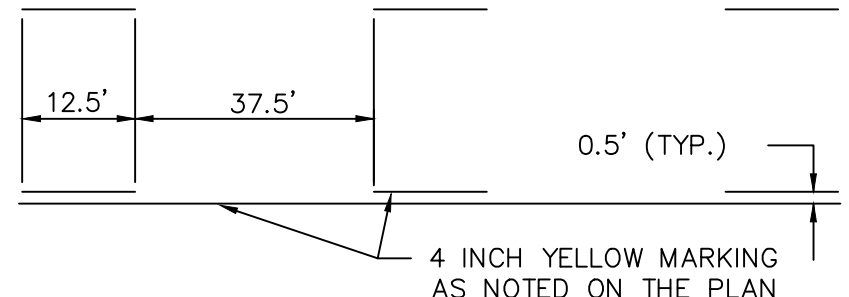
CROSSWALK DETAIL



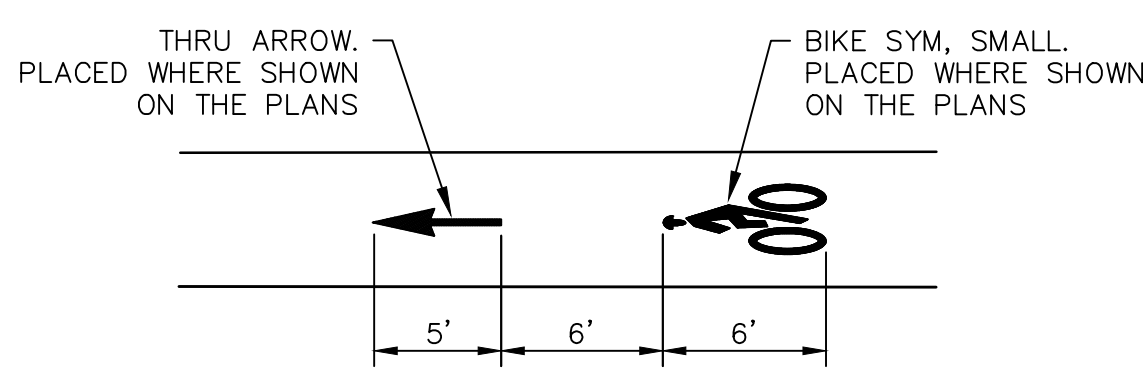
STOP BAR DETAIL



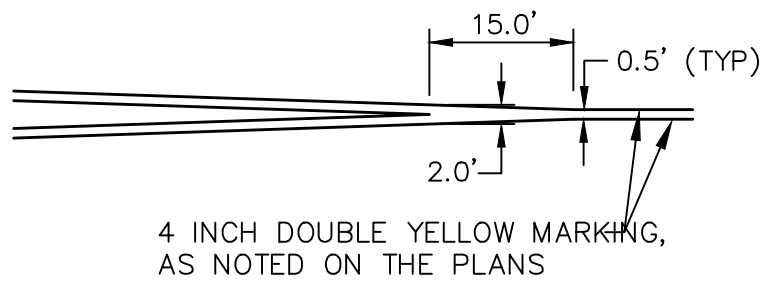
PARKING DETAIL



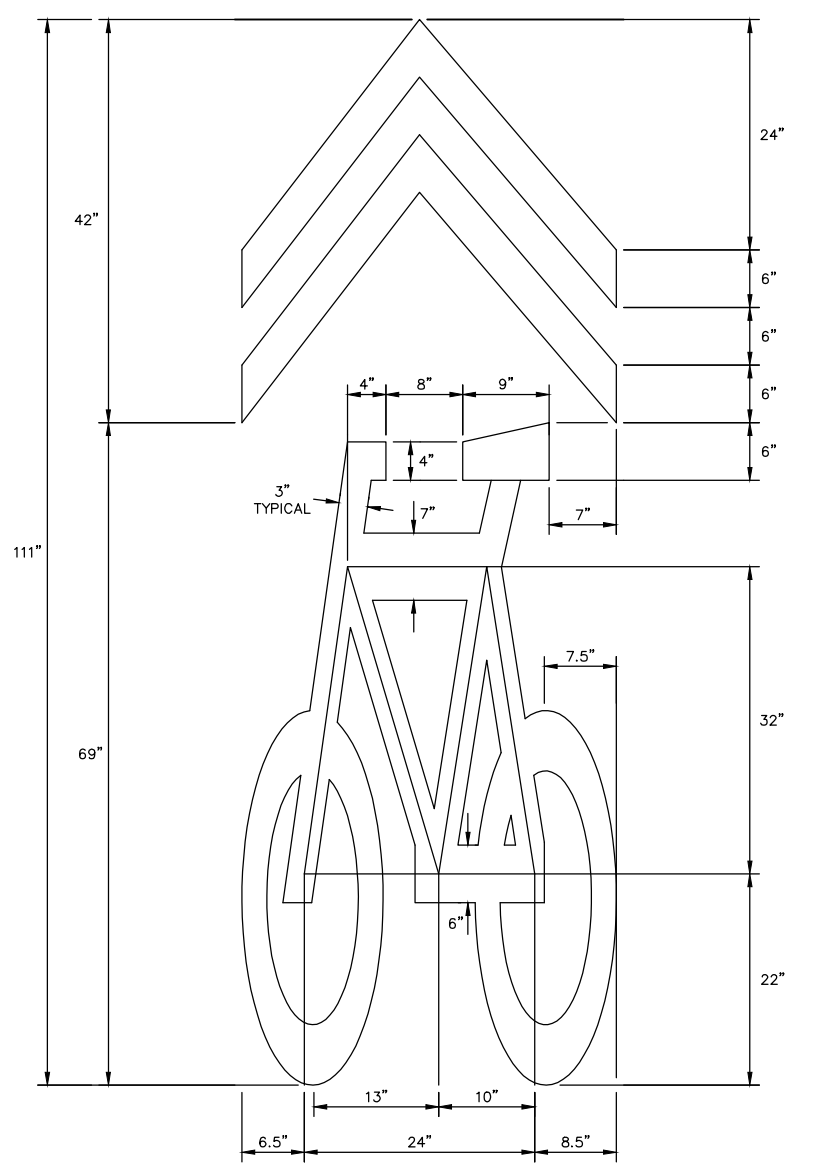
DASHED SEGMENT DETAIL




BIKE SYMBOL DETAIL



TYPICAL DOUBLE YELLOW SEPARATION DETAIL




SHARROW BIKE SYMBOL DETAIL



Know what's below.
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03	ADDENDUM 1	2/22/2016	JKA	JAN	JAN	JAN	AMW	CHECKED
02	FINAL SUBMITTAL	1/21/2016	JKA	JAN	JAN	JAN	JAN	DRAWN
01	PROJECT MANAGER REVIEW	11/24/2015	JKA	JAN	JAN	JAN	JAN	DATE
00	SOIL BORING LOCATION SHEET	10/05/2015	JKA	JAN	JAN	JAN	JAN	REV.
								DESCRIPTION



CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
PO BOX 8647
ANN ARBOR MI 4810-8647
www.a2gov.org

PROJECT MANAGEMENT - CITY OF ANN ARBOR
S. DIVISION ST. RESURFACING
PAVEMENT MARKINGS
PMARK 20+50 TO POE

SCALE PLAN: 1" = 20'
DRAWING No. 2015038-29

SHEET No. 29 OF 41