



# CITY OF ANN ARBOR PROJECT MANAGEMENT

### NOTES

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

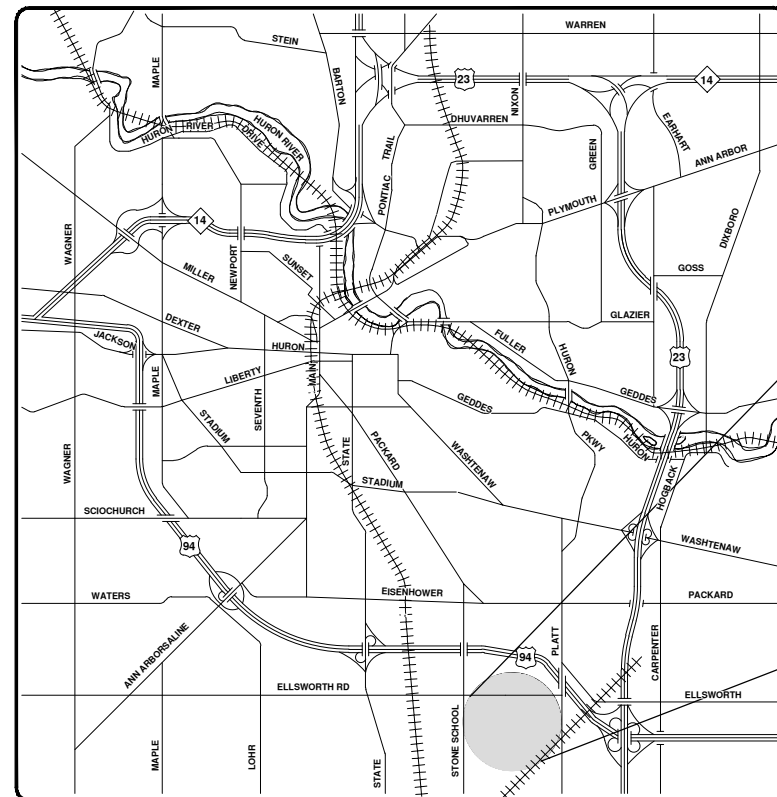
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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

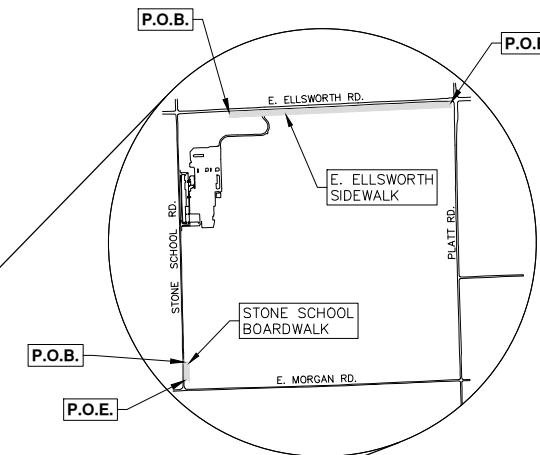
## WHEELER CENTER SIDEWALK - PHASE 1 W.R. WHEELER (SWIFT RUN) SERVICE CENTER PUD NON-MOTORIZED IMPROVEMENTS

BID No. BID NO, FILE No. 2014031

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VICINITY MAP



SITE PLAN FILE NO.: CSPA 15-09

**PROJECT MANAGEMENT SERVICE UNIT**

PREPARED UNDER THE SUPERVISION OF

*David Arthur Dykman*  
DAVID ARTHUR DYKMAN, P.E. - MI LICENSE No. 52912  
PROJECT MANAGER

DATE: 1 / 2015

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**

APPLICATION FOR AMENDMENT TO APPROVED PUD FINAL SITE PLAN FOR THE CITY OF ANN ARBOR SWIFT RUN SERVICE CENTER AREA PLAN (RZ 04-01 & ANN ARBOR MAINTENANCE FACILITY FINAL SITE PLAN CSPA 04-21). RZ 04-01 AND CSPA 04-21 WERE APPROVED BY THE PITTSFIELD TOWNSHIP BOARD IN 2004, UPDATED IN 2008 (RZ08-01)

SCALE	
DRAWING No.	2014031-1
SHEET No.	1 OF 41

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

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR MI 48106-6647 www.a2gov.org

**CONSTRUCTION NOTES:**

- Driveways and entrances to buildings, real property, and the like shall not be blocked except for short durations and only when approved by the Engineer. Vehicular and pedestrian access shall be maintained at all times. It shall be the Contractor's responsibility to coordinate all necessary driveway closures with the property owner(s) and resident(s) in the areas of construction.
- The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
- 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.
- 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".
- Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
- All City of Ann Arbor 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.
- Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
- The Contractor shall be responsible for the continuous maintenance of the 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".
- All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.
- Sawed sewer pipe connections shall be coupled with a Fernco flexible coupling and a stainless steel shear ring.
- The location of material stock piles and on-site staging areas to be approved by the Engineer.
- All City of Ann Arbor 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.
- Drainage structure sumps, where specified, shall be included in the payment for the various drainage structure sizes and or types.
- Where sewer pipes of different sizes or materials are joined, Fernco flexible couplings with stainless steel shear rings shall be used. The Contractor's purchase price for these devices, including shipping, shall be paid as an extra. Prior to payment for this item, the Contractor shall submit receipts for the Engineer's review and approval. All other costs associated with the installation of these devices shall be included in the payment for the sewer.
- Where sewer and water main are to be removed & replaced or added, all pipe shall be installed using Trench Detail detailed in the specifications or shown on Plans. Backfill for sewer and water construction shall be MDOT Granular Material, Class II, Modified.

- 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 "Machine Grading, Modified"
- In areas where edge drain cannot be installed in accordance with City of Ann Arbor Detail SD-TD-11, the edge drain shall be installed at the depth as indicated on the plans, or as directed by Engineer. In no case shall the edge drain be installed at a grade less than 0.50% or at a depth of less than 2' below top of proposed pavement.

**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
GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
RIGHT-OF-WAY PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
* NO COST TO CONTRACTOR	
PITTSFIELD CHARTER TOWNSHIP PERMITS	
PERMIT	ISSUING AUTHORITY
DRAIN PERMIT	WASHTENAW COUNTY DRAIN COMMISSIONER
RIGHT-OF-WAY PERMIT	WASHTENAW COUNTY ROAD COMMISSION
WETLAND PERMIT	MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WETLAND PERMIT	PITTSFIELD TOWNSHIP



01	OUT FOR BID	4-15-16	10-22-15	DATE
00	PATH - PER	PITTSFIELD TWP COMMENTS		DESCRIPTION
				REV.

**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 FOJTKI (734) 794-6361
PITTSFIELD TOWNSHIP UTILITIES	PITTSFIELD CHARTER TOWNSHIP 6201 W. MICHIGAN AVE. ANN ARBOR, MICHIGAN 48108	734 822-3105
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

TREE TABLE					
Tag No.	Size	Species	Condition	Northing	Easting
5729	19" 5729	Black Walnut	fair	262308.2882	13298753.6498
5728	27" 5728	Black Walnut	good	262319.5274	13298755.7677
5727	24" 5727	Black Walnut	good	262489.5926	13298754.7871
5726	24" 5726	Shogbark Hickory	fair	262518.0257	13298748.4271
5725	17" 5725			262544.3284	13298769.3066
5724	16" 5724	Black Walnut	good	262638.7132	13298746.5767
5723	24" 5723	Black Walnut	good	262701.7575	13298737.1774
5722	36" 5722	Siberian Elm	poor	262767.0576	13298738.3929
5721	7" 5721	Blue Spruce		262870.2840	13298746.9253
5720	18" 5720	Siberian Elm	poor	262860.1349	13298736.2099
5719	34" 5719	Burr Oak	good	262960.8761	13298728.3183
5718	24" 5718			262843.3840	13298687.3929
5717	17" 5717	Black Walnut	good	262624.1304	13298676.3197
5716	11" 5716			262606.6718	13298678.6273
5715	5" 5715			262584.5978	13298691.3167
5714	24" 5714	Black Walnut	good	262527.8964	13298690.2146
5713	34" 5713	Black Walnut	good	262480.7122	13298694.6840
5712	26" 5712	Sugar Maple	good	262421.2342	13298697.2767
5711	26" 5711	Sugar Maple	fair	262408.9103	13298698.5537
5710	26" 5710	Sugar Maple	fair	262375.8584	13298698.0342
5709	24" 5709	Sugar Maple	fair	262357.2147	13298699.8614
5708	24" 5708	Black Walnut	poor	262328.3628	13298697.8410
5707	12" 5707	Red Maple	good	262258.9766	13298684.5221
5706	17" 5706	Black Walnut	good	262259.2018	13298695.1641
5705	16" 5705	Kentucky Coffee Tree	good	262218.9466	13298696.9168
5704	18" 5704	Elm	dead	262217.0411	13298696.6715
5703	12" 5703	Elm	dead	262209.8707	13298693.0478
5702	9" 5702	Austran Pine	dead	262209.9855	13298695.9528
5701	20" 5701	Red Maple	good	262189.1373	13298695.2367
5700	12" 5700	Black Walnut	good	262117.0701	13298695.8813
5699	10" 5699	Black Walnut	good	262112.1851	13298680.8089
5698	14" 5698	Black Walnut	good	262083.5548	13298695.8667
5697	13" 5698	Shogbark Hickory	good	262064.2860	13298700.3402
5696	10" 5696	Shogbark Hickory	good	262047.8989	13298707.2338
5695	24" 5695	Shogbark Hickory	good	262013.2097	13298707.7488
5694	8" 5694	Crab Apple	poor	261404.2369	13298785.5286
5693	8" 5693	Crab Apple	poor	261404.9612	13298786.1898
5692	13" 5692	Ash	dead	261408.8661	13298807.8468
5691	12" 5691	Black Cherry	poor	261412.3792	13298807.2118
5690	8" 5690	Elm	poor	261420.6046	13298797.3056
5689	7" 5689	Red Maple	good	261420.3770	13298811.0176
5688	6" 5688	Box Elder	good	261429.4943	13298812.2519
5687	8" 5687			261434.8010	13298789.5676
5686	5" 5686			261442.8061	13298786.0742
5685	9" 5685			261445.9308	13298804.8245
5684	5" 5684			261445.1280	13298810.2152
5683	16" 5683	Ash	good	261443.7808	13298813.8354
5682	15" 5682	Elm	fair	261453.7234	13298817.8477
5681	7" 5681			261460.2444	13298810.7301
5680	7" 5680			261460.1590	13298806.0161
5679	6" 5679			261458.5346	13298803.0604
5678	6" 5678	Black Cherry		261459.0010	13298793.4712
5677	14" 5677			261470.1537	13298808.0494
5676	10" 5676			261478.1322	13298810.2358
5675	5" 5675			261483.1339	13298808.0241
5674	6" 5674			261472.1632	13298791.7854
5673	5" 5673			261476.3645	13298793.2085
5672	8" 5672			261505.1628	13298814.6230
5671	13" 5671			261500.6721	13298807.0913
5670	6" 5670			261496.9946	13298797.3664

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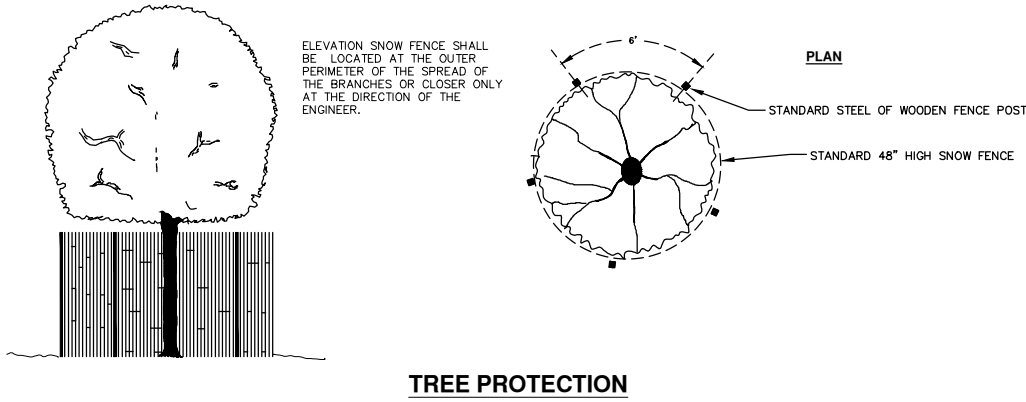
TREE TABLE					
Tag No.	Size	Species	Condition	Northing	Easting
* 5669	10" 5669	Silver Maple	fair	261514.5965	13298785.5705
5668	8" 5668			261514.7353	13298798.3772
5667	7" 5667			261514.5282	13298801.6336
5666	10" 5666			261515.6498	13298801.2360
5665	6" 5665			261527.8652	13298801.8591
5664	8" 5664			261523.1895	13298790.5794
5663	5" 5663			261531.1808	13298795.5550
5662	5" 5662			261532.4736	13298795.1262
5661	20" 5661	Elm	good	261550.2184	13298799.5537
5660	14" 5660	Elm	good	261552.1546	13298799.2809
5659	7" 5659			261546.7652	13298802.2109
5658	9" 5658			261561.4504	13298801.0689
5657	10" 5657	Silver Maple	fair	261563.0198	13298789.4894
5656	6" 5656	Silver Maple	good	261562.4980	13298790.5633
5655	10" 5655			261574.9259	13298802.8467
5654	32" 5654	Silver Maple	good	261641.7856	13298811.4397
5653	12" 5653	Black Walnut	good	261637.2997	13298790.8509
5652	15" 5652			261639.0523	13298789.7481
5651	16" 5651			261643.5133	13298786.2718
5650	6" 5650			261655.6196	13298783.5786
* 5649	16" 5649	Silver Maple	poor	261692.9051	13298780.6473
5648	12" 5648	Silver Maple	good	261680.9271	13298804.0863
5647	9" 5647	Silver Maple	good	261677.1995	13298802.6377
5646	12" 5646	Silver Maple	good	261750.5645	13298808.6880
5645	15" 5645			261743.7818	13298797.4692
5644	6" 5644			261748.7478	13298795.4777
* 5643	16" 5643	Elm	poor	261754.1241	13298780.1520
5642	6" 5642	Box Elder	poor	261759.1259	13298782.6337
5641	5" 5641	Box Elder	dead	261764.7608	13298795.9883
5640	5" 5640			261766.6973	13298806.0298
5639	13" 5639	Elm	dead	261780.8034	13298796.8883
5638	9" 5638			261785.7470	13298812.3109
5637	6" 5637	Box Elder	dead	261810.2382	13298806.6889
5636	7" 5636	Box Elder	dead	261809.7888	13298801.9946
5635	5" 5635	Box Elder	dead	261798.9774	13298802.8798
5634	18" 5634	Black Walnut	good	261809.4019	13298792.6997
5633	8" 5633	Box Elder	good	261811.3813	13298792.7197
5632	5" 5632	Black Cherry	good	261810.5061	13298784.2884
5631	7" 5631			261800.9367	13298788.7096
5630	8" 5630			261799.9072	13298786.6262
5629	8" 5629	Box Elder	dead	261791.4154	13298783.5487
5628	6" 5628	Box Elder	dead	261795.3110	13298782.5198
5627	18" 5627	Black Cherry	poor	261950.9069	13298757.3862
5626	31" 5626	Black Walnut	good	261928.3321	13298713.0338
5625	8" 5625	Black Walnut	good	261875.9264	13298714.9818
5624	21" 5624	Black Walnut	fair	261855.9879	13298712.3105
5623	28" 5623	Black Walnut	good	261782.8654	13298710.8787
5622	24" 5622			261771.2412	13298709.9978
5621	20" 5621			262543.6898	13298703.9008
5620	6" 5620			261753.1881	13298674.9316
5619	5" 5619			261746.8720	13298674.6472
5618	27" 5618			261739.0546	13298681.7526
5617	22" 5617			261738.3274	13298689.1328
5616	8" 5616			261744.4145	13298698.0399
5615	20" 5615			261730.8233	13298702.9882
5614	14" 5614			261694.5466	13298701.6961
5613	12" 5613			261692.2250	13298705.3715
5612	12" 5612			261694.4596	13298705.4791
5611	10" 5611			261695.3615	13298706.9414
5610	8" 5610			261673.7703	13298697.7406

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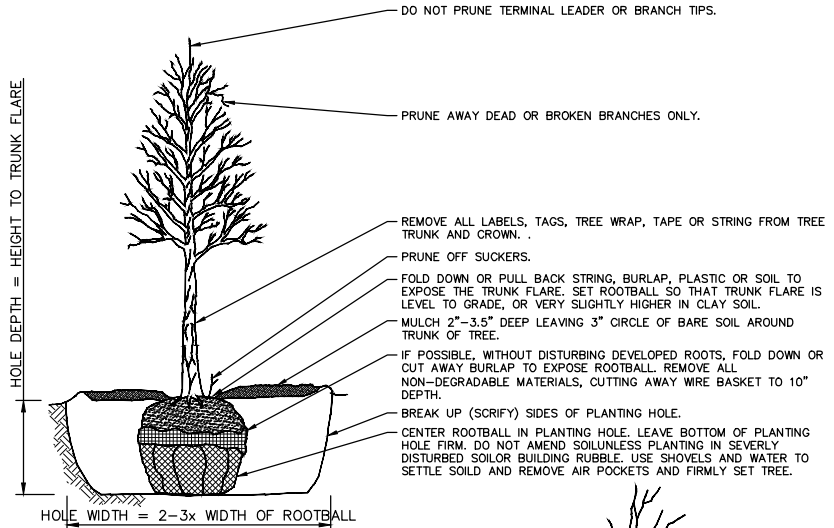
TREE TABLE					
Tag No.	Size	Species	Condition	Northing	Easting
5609	14" 5609			261650.0985	13298690.5310
5608	20" 5608			261646.0075	13298690.7121
5607	8" 5607			261642.9819	13298691.2313
5606	6" 5606			261642.8686	13298690.4164
5605	6" 5605			261643.5525	13298687.9562
5604	12" 5604			261630.5263	13298675.8694
5603	12" 5603			261625.8920	13298680.0000
5602	12" 5602			261625.5299	13298682.8159
5601	10" 5601			261622.8366	13298685.5349
5600	8" 5600			261590.9418	13298680.9784
5599					



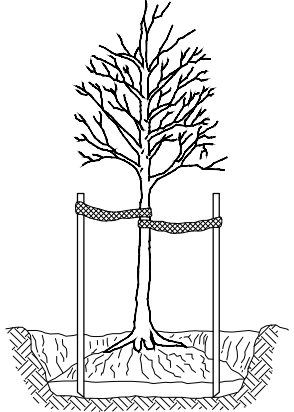
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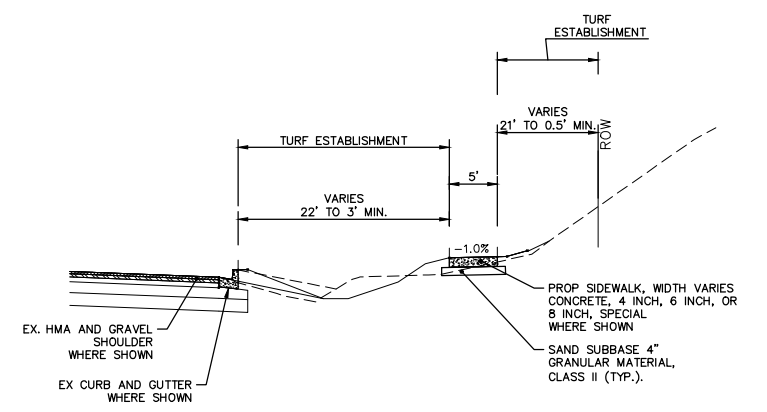
**TREE PROTECTION**



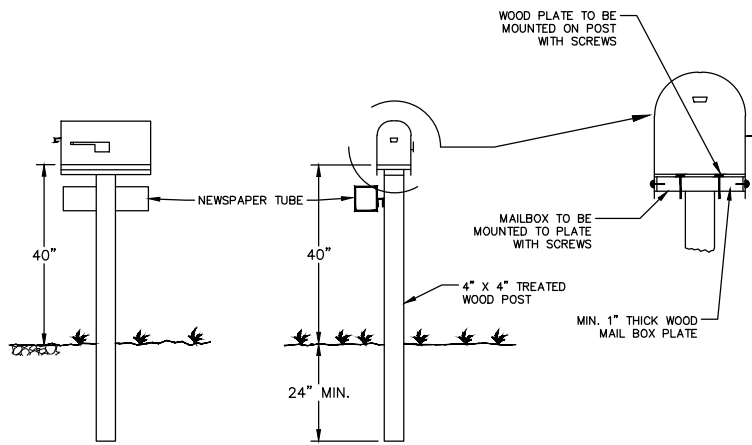
- DO NOT STAKE UNLESS IN HEAVY CLAY SOIL, WINDY CONDITIONS, 3" OR GREATER DIAMETER TREE TRUNK OR LARGE CROWN. IF STAKING IS NEEDED DUE TO THESE CONDITIONS:
- STAKE WITH 2 x 2 HARDWOOD STAKES, OR APPROVED EQUAL, DRIVEN 6"-8" OUTSIDE OF ROOTBALL.
  - LOOSELY STAKE TREE TRUNK TO ALLOW FOR TRUNK FLEXING.
  - STAKE TREES JUST BELOW FIRST BRANCH WITH 2"-3" WIDE BELT-LIKE, NYLON OR PLASTIC STRAPS (2 PER TREE ON OPPOSITE SIDES OF TREE, CONNECT FROM TREE TO STAKE HORIZONTALLY. DO NOT USE ROPE OR WIRE THROUGH A HOSE.)
  - REMOVE ALL STAKING MATERIALS AFTER 1 YEAR.



**TREE PLANTING SD-L-3**

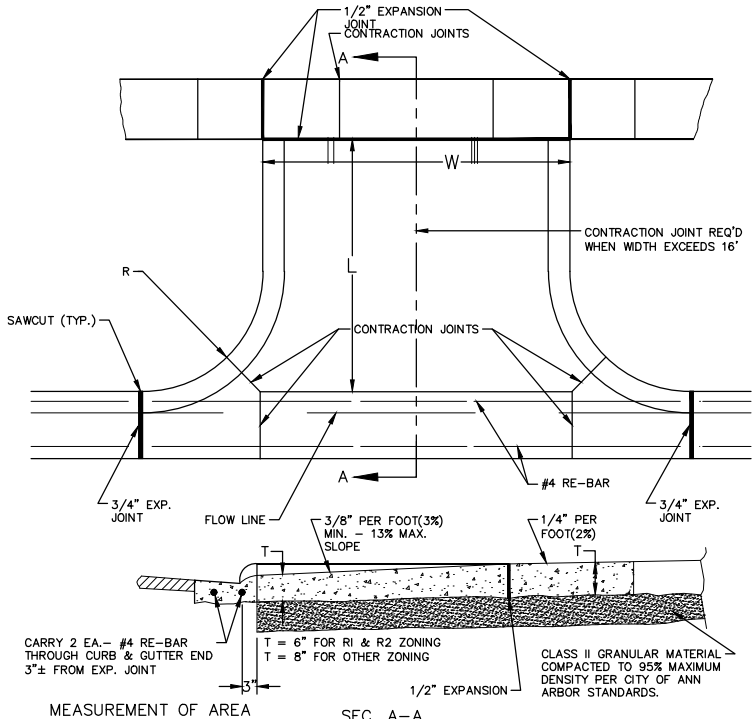
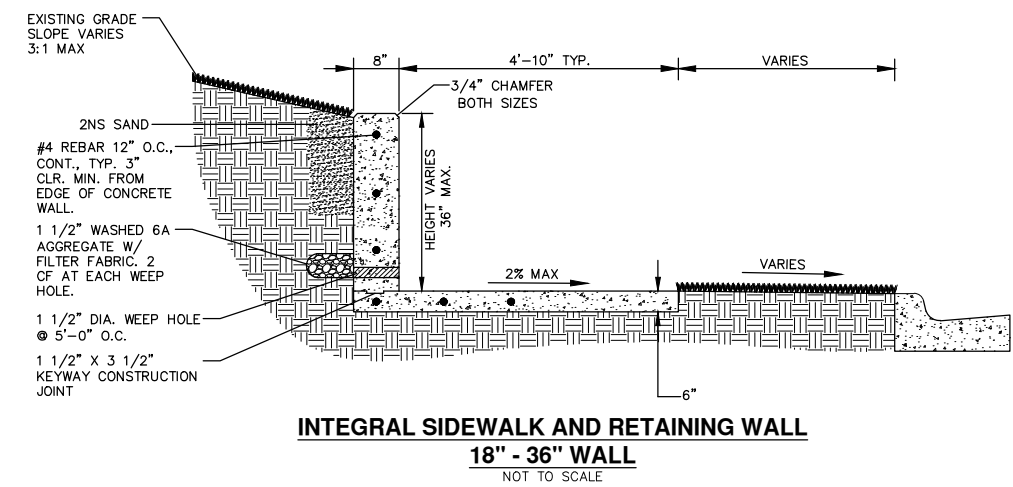
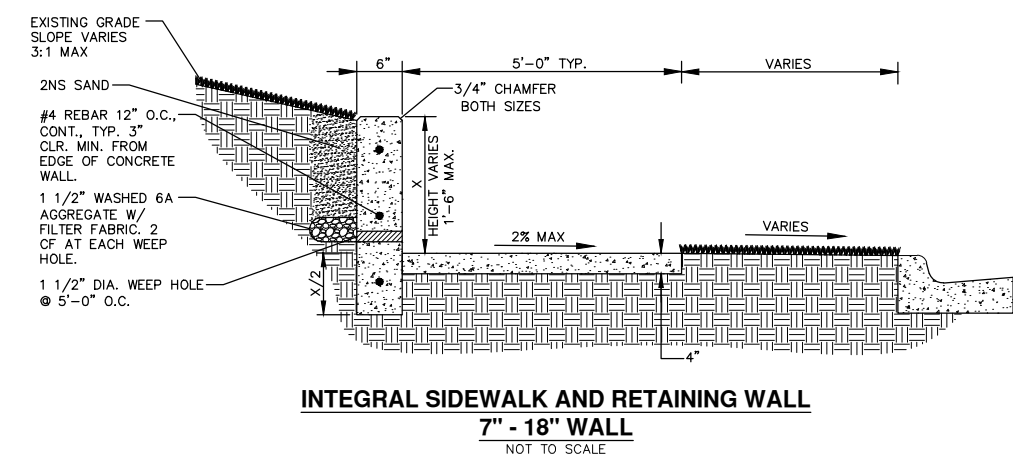


**SIDEWALK TYPICAL SECTION P.O.B. TO P.O.E.**




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

**MAILBOX/NEWSPAPER TUBE INSTALLATION AND RELOCATION SD-M-2**



**TYPE 'M' DRIVE APPROACH SD-R-6**



City of Ann Arbor  
Public Services  
301 East Huron Street  
Ann Arbor, MI 48107-8647  
www.a2gov.org

01	OUT FOR BID	CEC/DFP	4-15-16	CEC	10-22-15	DATE	DRAWN	CHECKED	
00	PATH - PER PITTSFIELD TWP COMMENTS								
									DESCRIPTION

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**

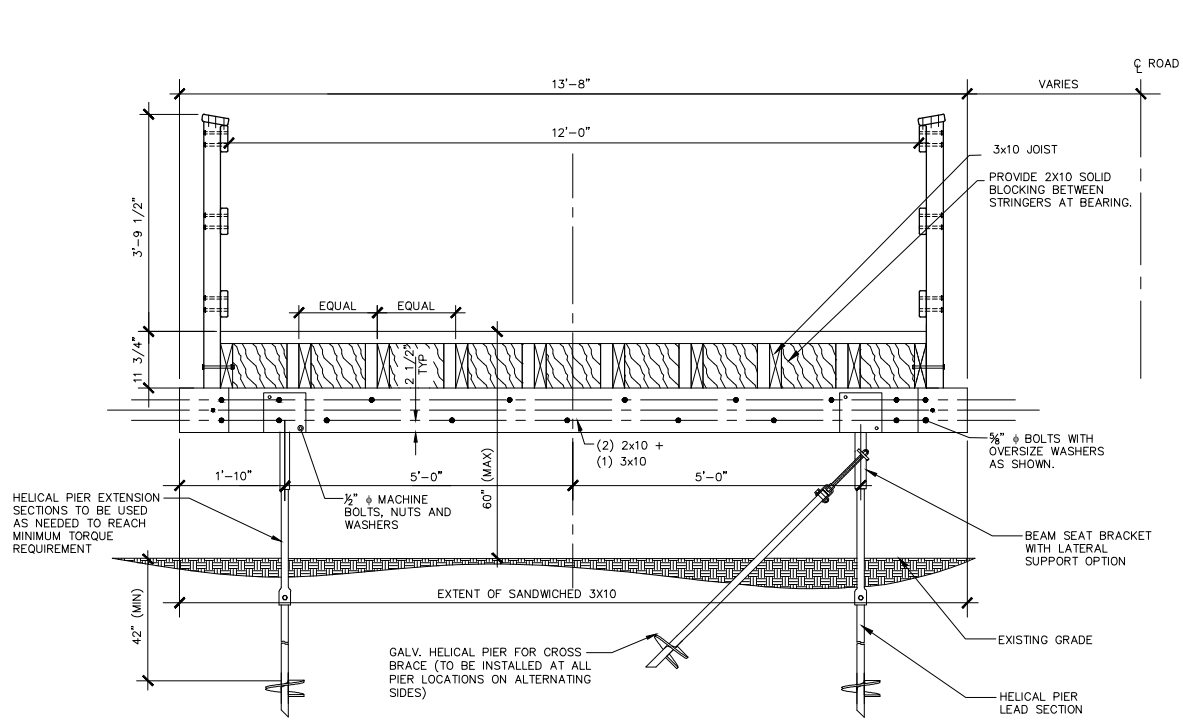
**WHEELER CENTER SIDEWALK - PHASE 1**

SCALE: N.T.S.

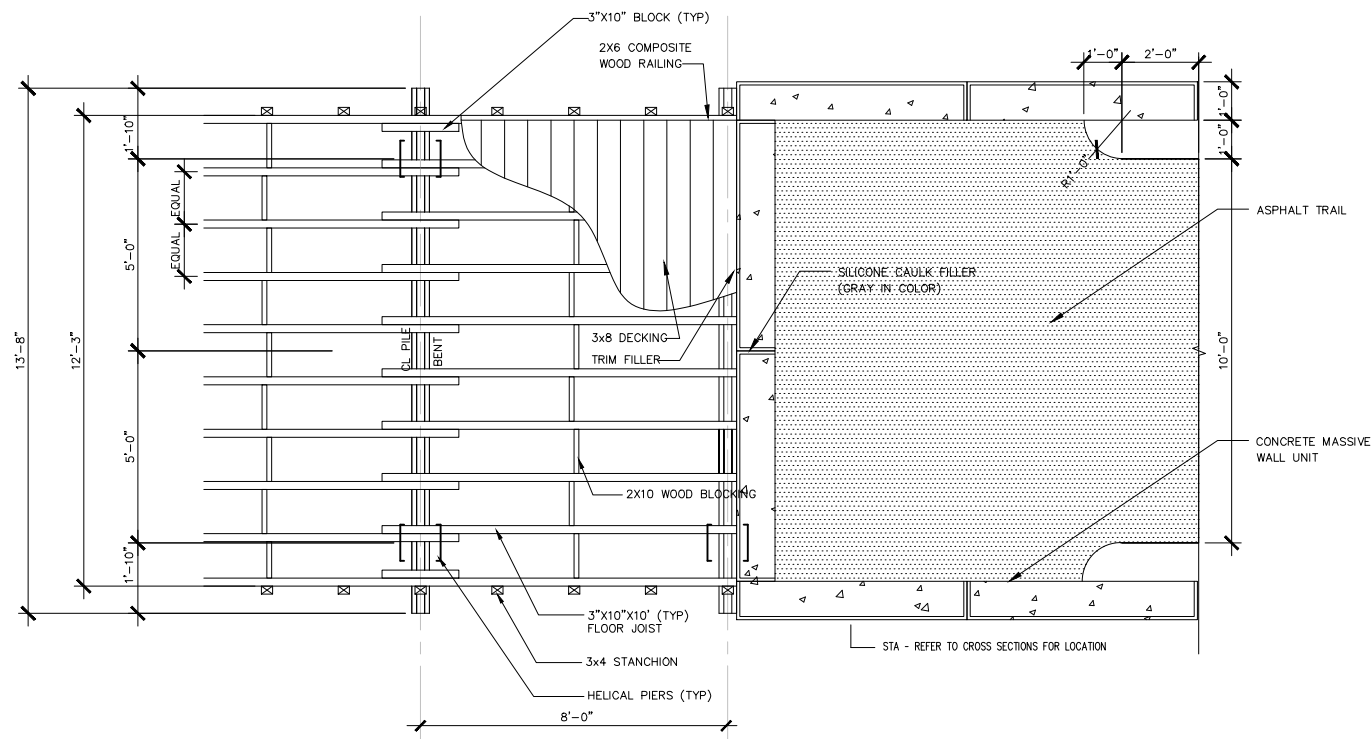
DRAWING No. 2014031-4

SHEET No. 4 OF 41

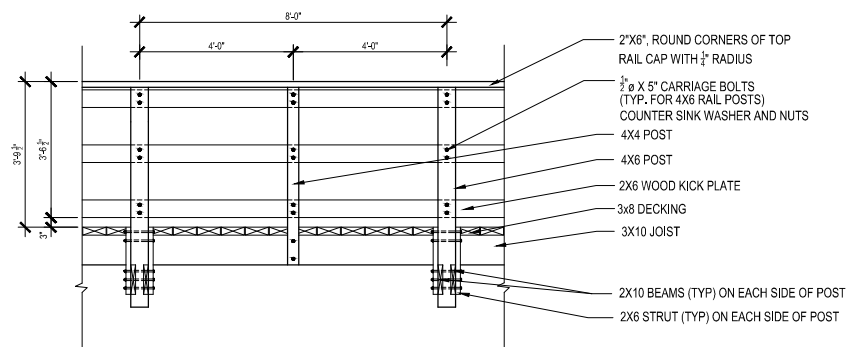
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**12' BOARDWALK SECTION**  
NO SCALE

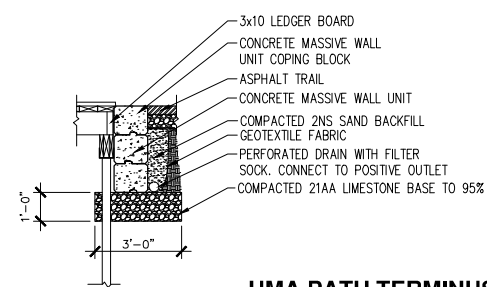
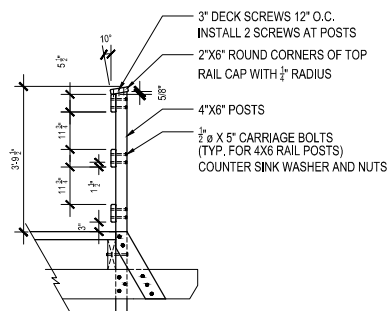


**12' BOARDWALK FRAMING PLAN AND WALL APPROACH PLAN**  
NO SCALE



**BOARDWALK RAILING DETAIL**  
NO SCALE

- NOTES:
1. ALL TIMBER (EXCEPT THAT NOTED AS COMPOSITE) SHALL BE PRESSURE TREATED TO 0.23 PCF (GROUND CONTACT RATED) WITH MCA.
  2. ALL COMPOSITE MATERIAL SHALL BE TREX OR APPROVED EQUIVALENT COORDINATE COLOR W. LANDSCAPE ARCHITECT
  3. ALL STEEL FASTENERS SHALL BE HOT DIPPED GALVANIZED.
  4. COUNTER SINK ALL SCREW CONNECTIONS 1/4".



**HMA PATH TERMINUS SECTION**  
NO SCALE

- NOTES:
1. MWU WALL SHALL HAVE NO BATTER (0°) ON ALL THREE SIDES.
  2. BOARDWALK AND MWU WALL SHALL HAVE 1" MAX. SPACE BETWEEN THEM.
  3. BOARDWALK DECKING SHALL BE CUT TO CONFORM TO MWU WALL CHAMFER AS NECESSARY TO ENSURE SPACING.
  4. ALL BACKFILLED MATERIAL INSIDE WALLS SHALL BE COMPACTED TO A 95% COMPACTION RATE.
  5. PLACE RIP RAP FROM WALL FACE TO 18" BEYOND FIRST SET OF PILES OR SLEEPER ON BOTH SIDES. PLACE RIP RAP 18"-24" ALONG WALL PER DETAIL G, L-3.01



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	OUT FOR BID	4-15-16	CEC/DFP	DAD
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

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WHEELER CENTER SIDEWALK - PHASE 1  
BOARDWALK DETAILS

SCALE: N.T.S.  
DRAWING No. 2014031-5

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

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

- SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
- PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF WATER TRUCKS AND/OR DUST PALLIATIVE AS REQUIRED.
- 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.
- 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.
- TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.

**SEQUENCE OF EROSION CONTROL MEASURES:**

- 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:**

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

- COMPLETE REQUIRED DITCHING FROM MALLET'S CREEK TO STONE SCHOOL ROAD.
- INSTALL WATER MAINS, STORM AND SANITARY SEWERS, AND OTHER ENCLOSED DRAINAGE FEATURES. NEW INLET FILTERS SHALL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF NEW DRAINAGE INLETS.
- PERFORM MACHINE GRADING OPERATIONS AND CONSTRUCT PAVEMENTS (MAINLINE, SIDEWALKS, DRIVES, ETC.).
- COMPLETE MALLET'S CREEK WORK OPERATIONS IN ACCORDANCE WITH CONSTRUCTION SEQUENCE CONTAINED WITHIN THE SPECIAL PROVISION ENTITLED "MAINTAINING TRAFFIC AND CONSTRUCTION METHOD AND SEQUENCING" CONTAINED IN THE CONTRACT PROPOSAL.
- CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY.
- COMPLETE ALL BIORETENTION GRADING AND FINE GRADING.
- TEMPORARY SEED AND INSTALL EROSION CONTROL BLANKET IN ALL DISTURBED AREAS.
- REFER TO LANDSCAPE PLANTING PLANS FOR PERMANENT SITE STABILIZATION.
- CLEAN OUT STORM SEWER SYSTEMS.
- REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.
- 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:**

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

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

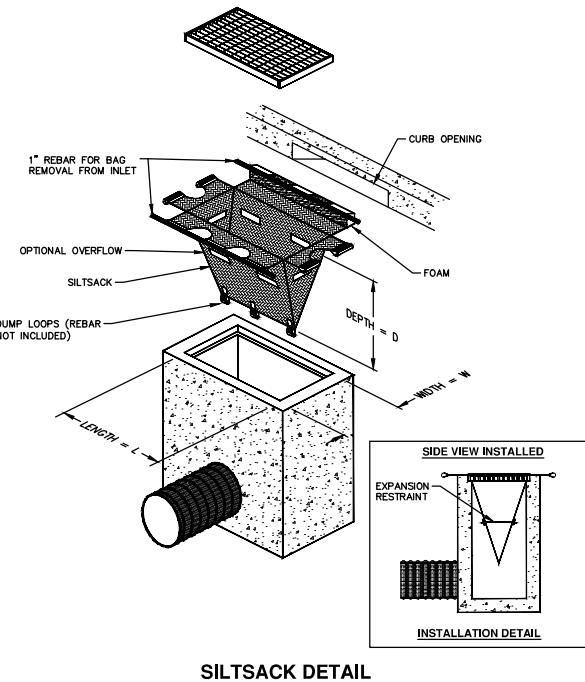
ESTIMATE OF EXCAVATION AND FILL FROM EXISTING TO FINAL GRADE:

- EXCAVATION = 6240 CY, FILL = 6799 CY

- ON SITE SOILS PER THE USDA SOIL SURVEY OF WASHTENAW COUNTY, MICHIGAN:
- Sb - SEBEWA LOAM - IN DEPRESSION AREAS, BROAD LOW-LYING AREA, AND DRAINAGEWAYS OF OUTWASH PLAINS, VALLEY TRAINS, AND TERRACES. SLOPE IS 0% TO 2%.
  - FoB - FOX SANDY LOAM - IN UPLAND AREAS AND ON OUT WASH PLAINS, KAMES, VALLEY TRAINS, TERRACES, AND MORAINES. SLOPES ARE UNIFORM OR SHORT AND COMPLEX.
  - MdA - MATHERTON SANDY LOAM - IN DEPRESSION AREAS, BROAD LOW-LYING AREAS, AND ALONG DRAINAGEWAYS, OUTWASH PLAINS, VALLEY TRAINS, AND TERRACES. NEARLY LEVEL TO GENTLY SLOPING.
  - MfA - METAMORA SANDY LOAM - IN DEPRESSION AREAS, BROAD, LOW-LYING AREAS, AND ALONG DRAINAGEWAYS OF TILL PLAINS AND MORAINES.
  - NaB - NAPPANEE SILTY CLAY LOAM - ON FOOT SLOPES AND ALONG DRAINAGEWAYS OF TILL PLAINS, MORAINES, AND LAKE PLAINS. NEARLY LEVEL TO GENTLY SLOPING.

IMPERVIOUS PROJECT AREA  
27,240 ft<sup>2</sup> - WALK = 0.625 AC  
16,700 ft<sup>2</sup> - PATH = 0.383 AC

TOTAL AREA OF PROPOSED DISTURBANCE = 3.75 AC  
1.05 AC - STONE SCHOOL ROAD  
2.70 AC - ELLSWORTH ROAD



**SILTSACK DETAIL**

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	80%
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

**H-FLOW SILTSACK**

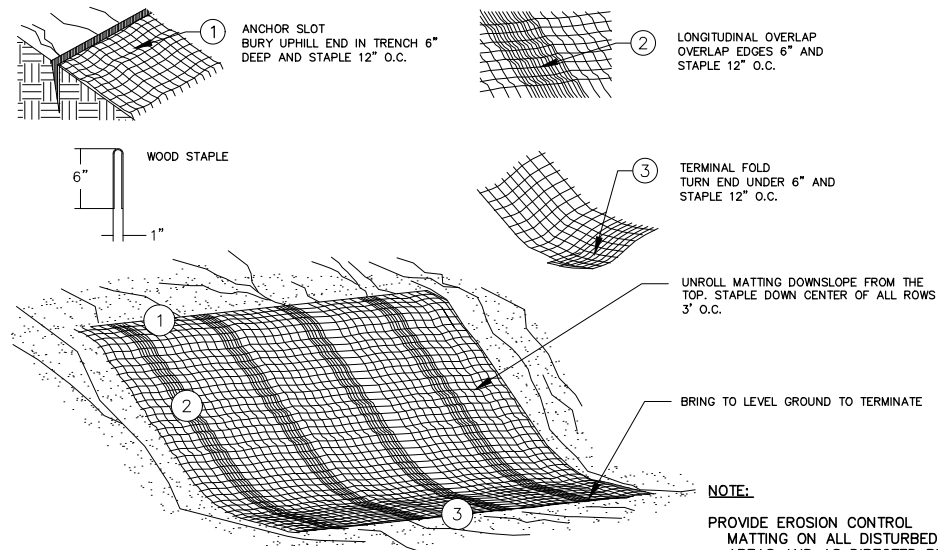
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

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**

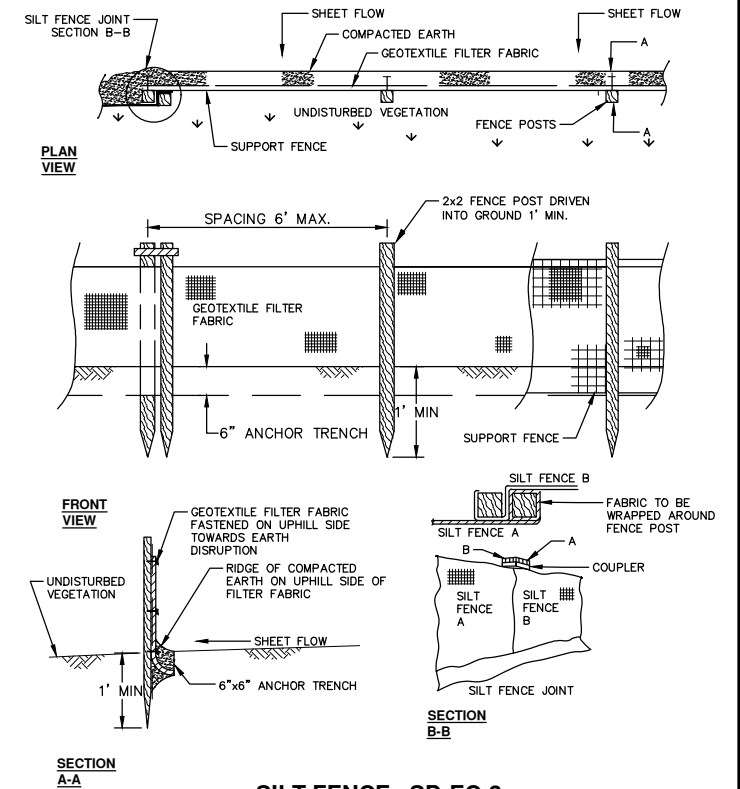
(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS THAT THE CONTRACTOR INSTALL THE REBAR AS SHOWN IN THIS DETAIL TO PROVIDE A FULLY FUNCTIONING UNIT. ALL COSTS ASSOCIATED WITH FURNISHING, CLEANING AS MANY TIMES AS REQUIRED, DISPOSAL OF SEDIMENT, AND REMOVING THE INLET FILTER WHEN NO LONGER NEEDED IS INCLUDED IN THE ITEM OF WORK AND WILL NOT BE PAID FOR SEPARATELY.



**MULCH BLANKET DETAIL**

APPLIES TO ALL AREAS TO BE PERMANENTLY RESTORED WITH GRASS. SEE LANDSCAPE PLANS FOR MORE DETAILS.



**SILT FENCE SD-EC-3**



REV.	DATE	DESCRIPTION
01	4-15-16	OUT FOR BID
00	10-22-15	PATH - PER PITTSFIELD TWP COMMENTS

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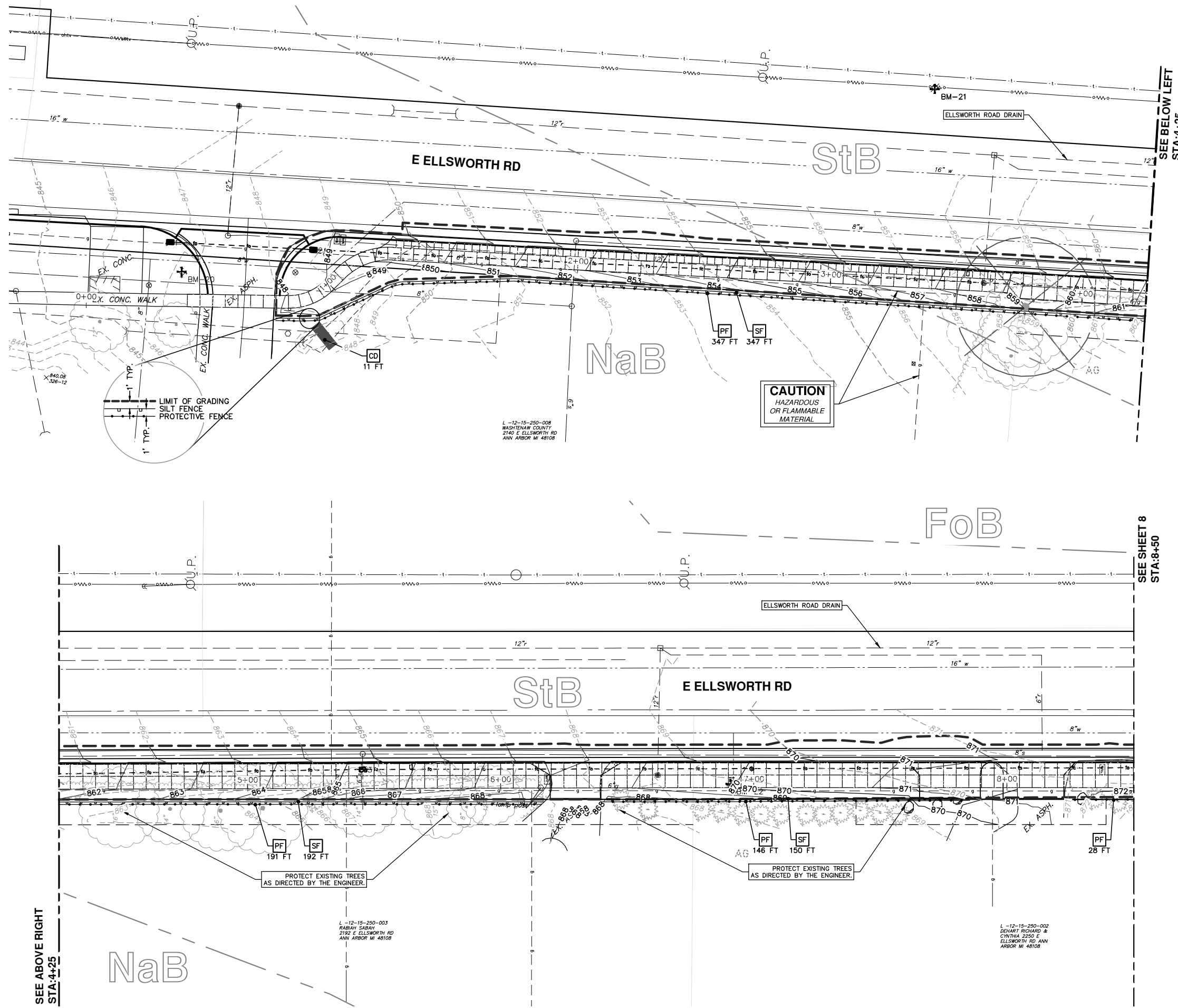
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
WHEELER CENTER SIDEWALK - PHASE 1

SESC NOTES AND DETAILS

SCALE: N.T.S.  
DRAWING No. 2014031-6

SHEET No.

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STA: 4+25

SEE SHEET 8  
STA: 8+50

SEE BELOW LEFT  
STA: 4+25

SESC MEASURES KEY	
KEY	DESCRIPTION
SF	INSTALL SILT FENCE
PF	INSTALL PROTECTIVE FENCING
CD	INSTALL CHECK DAM, STONE
ID	INTERCEPTING DITCH
RR	INSTALL RIP-RAP
SB	TEMPORARY SEDIMENT BASIN
TS	TEMPORARY INLET STRUCTURE
BAG	SAND BAG
TM	TEMPORARY SEEDING/MULCH BLANKET
GFB	GRAVEL FILTER BERM
MB	MULCH BLANKET, HIGH VELOCITY
OS	INSTALL OUTLET STRUCTURE
IP	INSTALL INLET FILTER

**CAUTION**  
HAZARDOUS  
OR FLAMMABLE  
MATERIAL

PROTECT EXISTING TREES  
AS DIRECTED BY THE ENGINEER.

PROTECT EXISTING TREES  
AS DIRECTED BY THE ENGINEER.

NaB

NaB

StB

StB

FoB

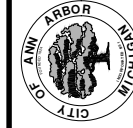
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RABIAH SABAH  
2142 E ELLSWORTH RD  
ANN ARBOR MI 48108

L-12-15-250-008  
WASHINGTON COUNTY  
2140 E ELLSWORTH RD  
ANN ARBOR MI 48108

L-12-15-250-002  
DEHART RICHARD &  
CYNTHIA 2250 E  
ELLSWORTH RD ANN  
ARBOR MI 48108

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
WHEELER CENTER SIDEWALK - PHASE 1  
SOIL EROSION CONTROLS AND WATER QUALITY IMPROVEMENTS  
ELLSWORTH ROAD STA. 0+00 - STA. 8+50

SCALE PLAN: 1" = 20'  
DRAWING No.  
2014031-7



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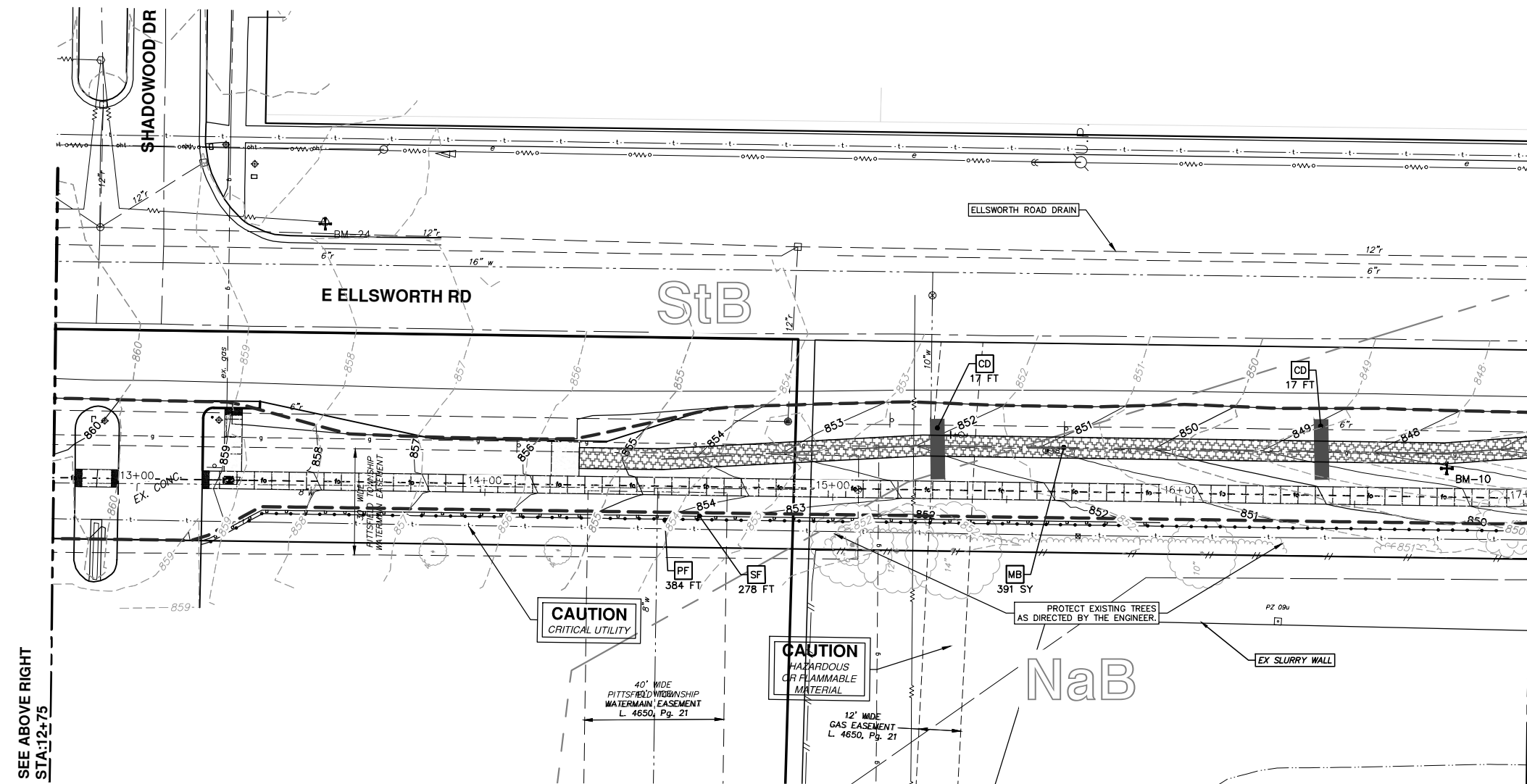
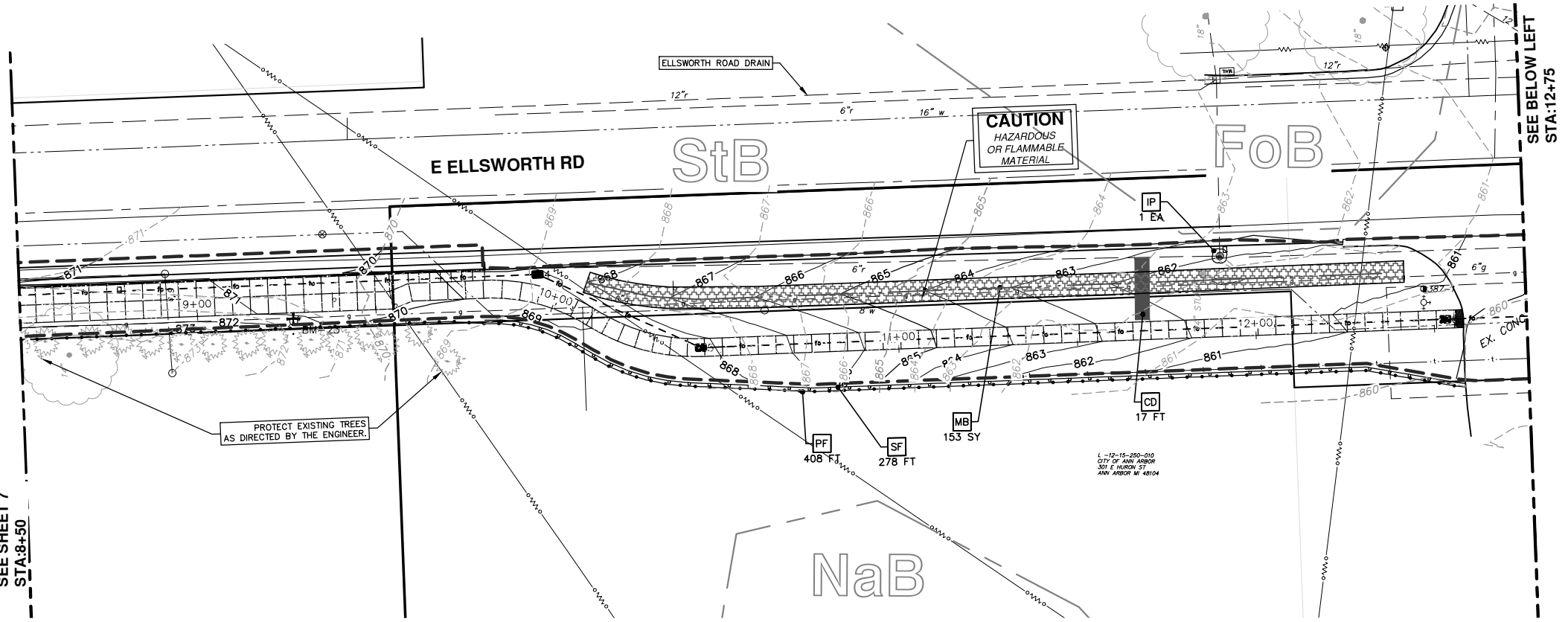
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00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD



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SEE SHEET 7  
STA: 8+50

SEE ABOVE RIGHT  
STA: 12+75



SESC MEASURES KEY	
KEY	DESCRIPTION
SF	INSTALL SILT FENCE
PF	INSTALL PROTECTIVE FENCING
CD	INSTALL CHECK DAM, STONE
ID	INTERCEPTING DITCH
RR	INSTALL RIP-RAP
SB	TEMPORARY SEDIMENT BASIN
TS	TEMPORARY INLET STRUCTURE
BAG	SAND BAG
TM	TEMPORARY SEEDING/MULCH BLANKET
GFB	GRAVEL FILTER BERM
MB	MULCH BLANKET, HIGH VELOCITY
OS	INSTALL OUTLET STRUCTURE
IP	INSTALL INLET FILTER

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**WHEELER CENTER SIDEWALK - PHASE 1**  
 SOIL EROSION CONTROLS AND WATER QUALITY IMPROVEMENTS  
 ELLSWORTH ROAD STA. 8+50 - STA. 17+00

SCALE PLAN: 1" = 20'  
 DRAWING No. 2014031-8

8 OF 41

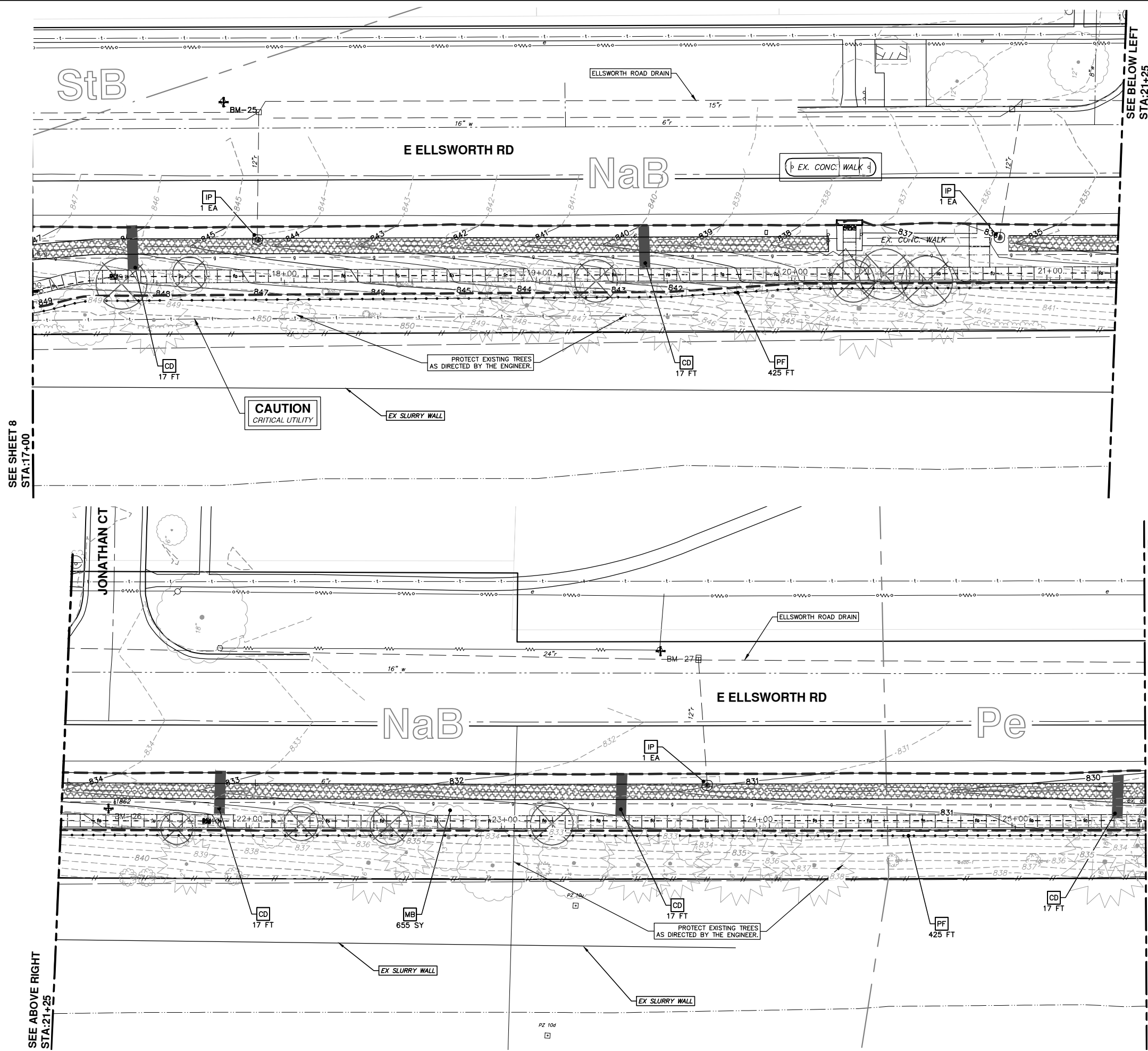
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01	OUT FOR BID	4-15-16	CEC/DFP	DAD
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

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

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SESC MEASURES KEY	
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SF	INSTALL SILT FENCE
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GFB	GRAVEL FILTER BERM
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OS	INSTALL OUTLET STRUCTURE
IP	INSTALL INLET FILTER

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**WHEELER CENTER SIDEWALK - PHASE 1**  
 SOIL EROSION CONTROLS AND WATER QUALITY IMPROVEMENTS

SCALE PLAN: 1" = 20'  
 DRAWING No. 2014031-9

**811**  
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01	OUT FOR BID	4-15-16	CEC/DFP	DAD	CHECKED
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	REV.				

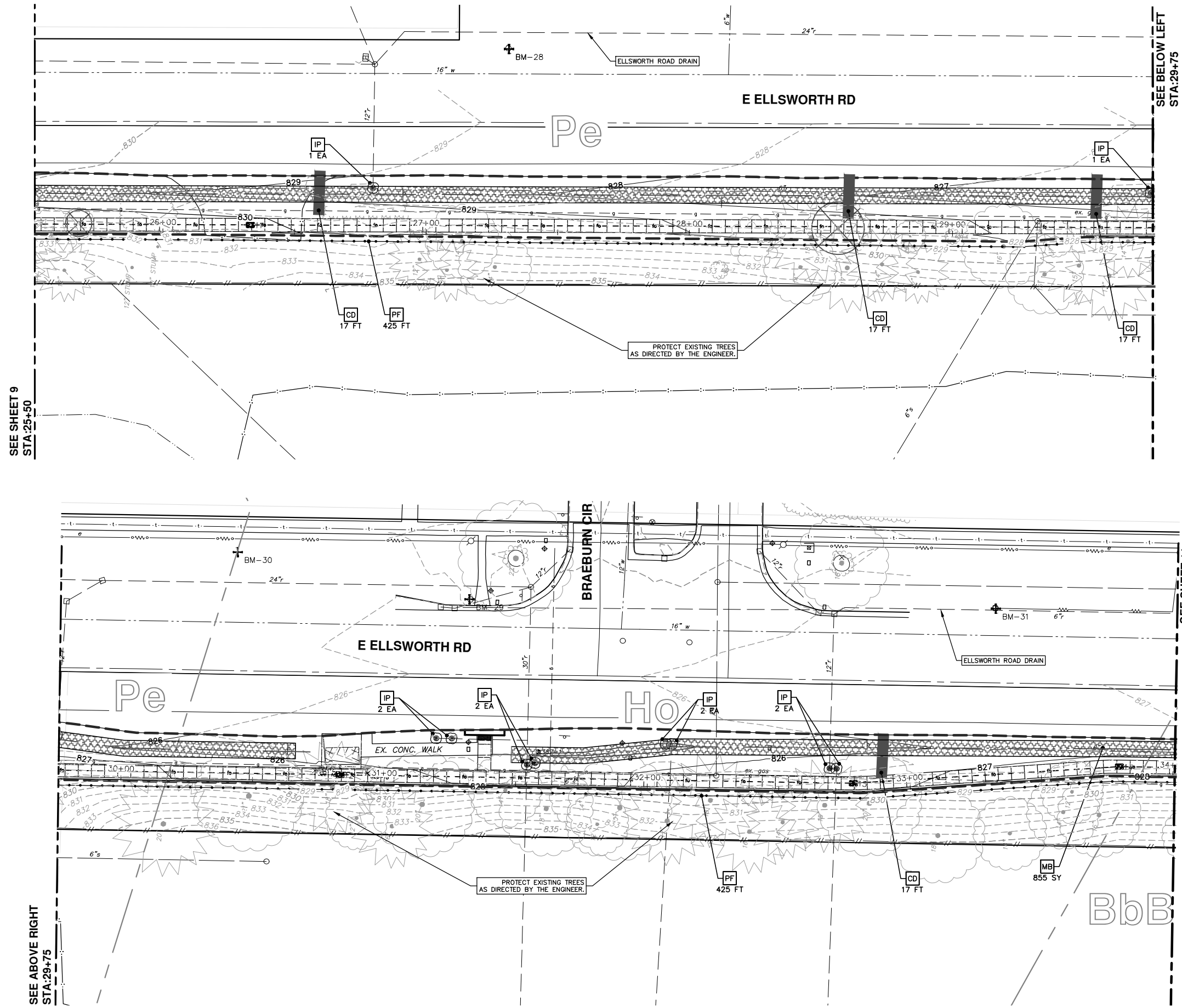
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**CITY OF ANN ARBOR**  
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ELLSWORTH ROAD STA. 17+00 - STA. 25+50

SHEET No. **9 OF 41**

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SEE SHEET 9  
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STA: 29+75

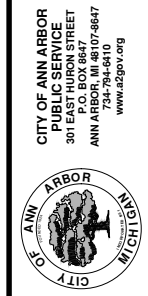
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SEE SHEET 11  
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SESC MEASURES KEY	
KEY	DESCRIPTION
SF	INSTALL SILT FENCE
PF	INSTALL PROTECTIVE FENCING
CD	INSTALL CHECK DAM, STONE
ID	INTERCEPTING DITCH
RR	INSTALL RIP-RAP
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OS	INSTALL OUTLET STRUCTURE
IP	INSTALL INLET FILTER

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**WHEELER CENTER SIDEWALK - PHASE 1**  
 SOIL EROSION CONTROLS AND WATER QUALITY IMPROVEMENTS  
 ELLSWORTH ROAD STA. 25+50 - STA. 34+00

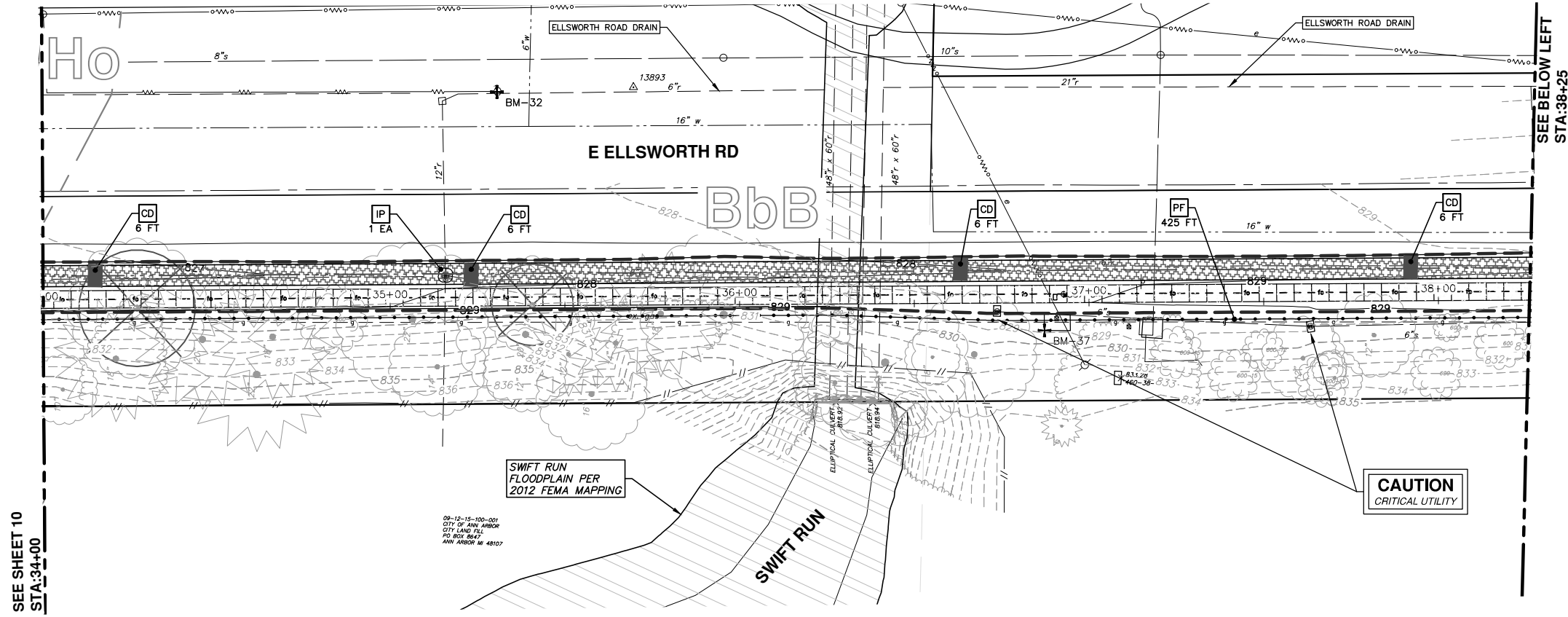
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 DRAWING No. 2014031-10  
 SHEET No. 10 OF 41



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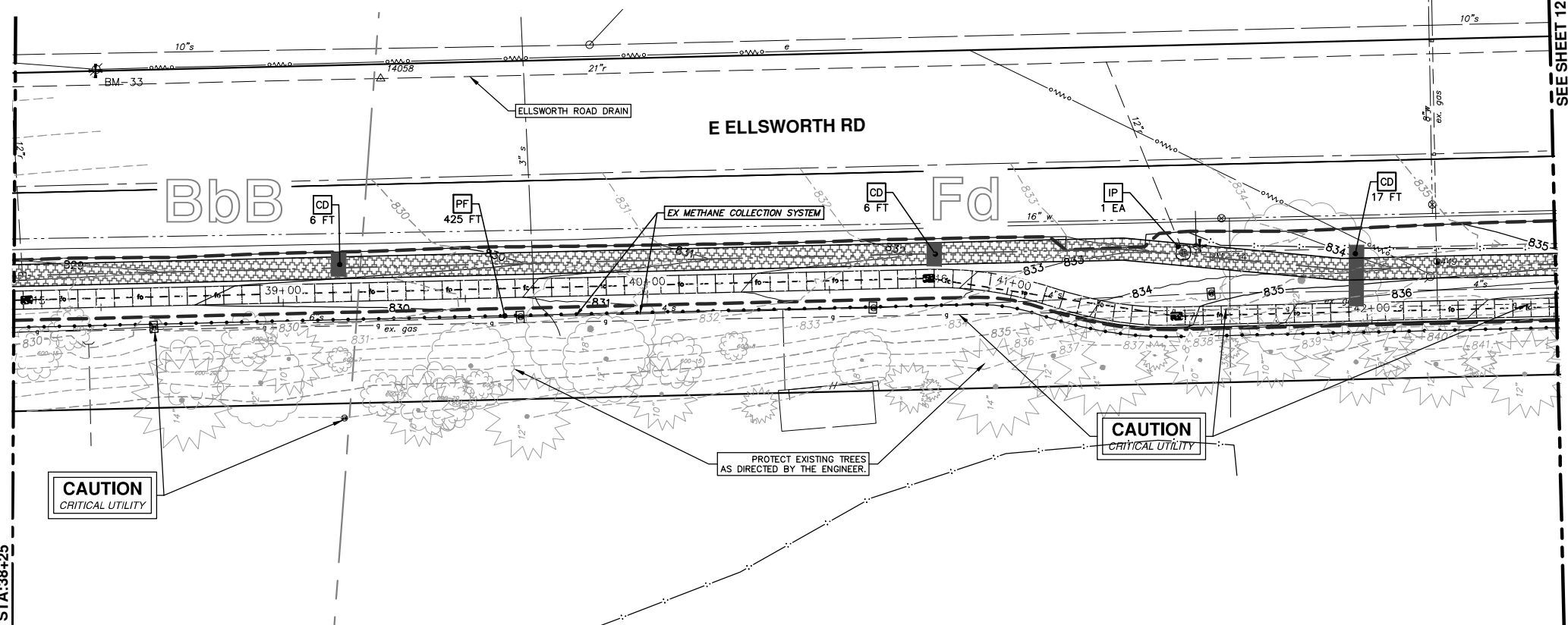


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STA:34+00

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STA:38+25



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STA:38+25

SEE SHEET 12  
STA:42+50

SESC MEASURES KEY	
KEY	DESCRIPTION
SF	INSTALL SILT FENCE
PF	INSTALL PROTECTIVE FENCING
CD	INSTALL CHECK DAM, STONE
ID	INTERCEPTING DITCH
RR	INSTALL RIP-RAP
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IP	INSTALL INLET FILTER



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ANN ARBOR, MI 48106-1000  
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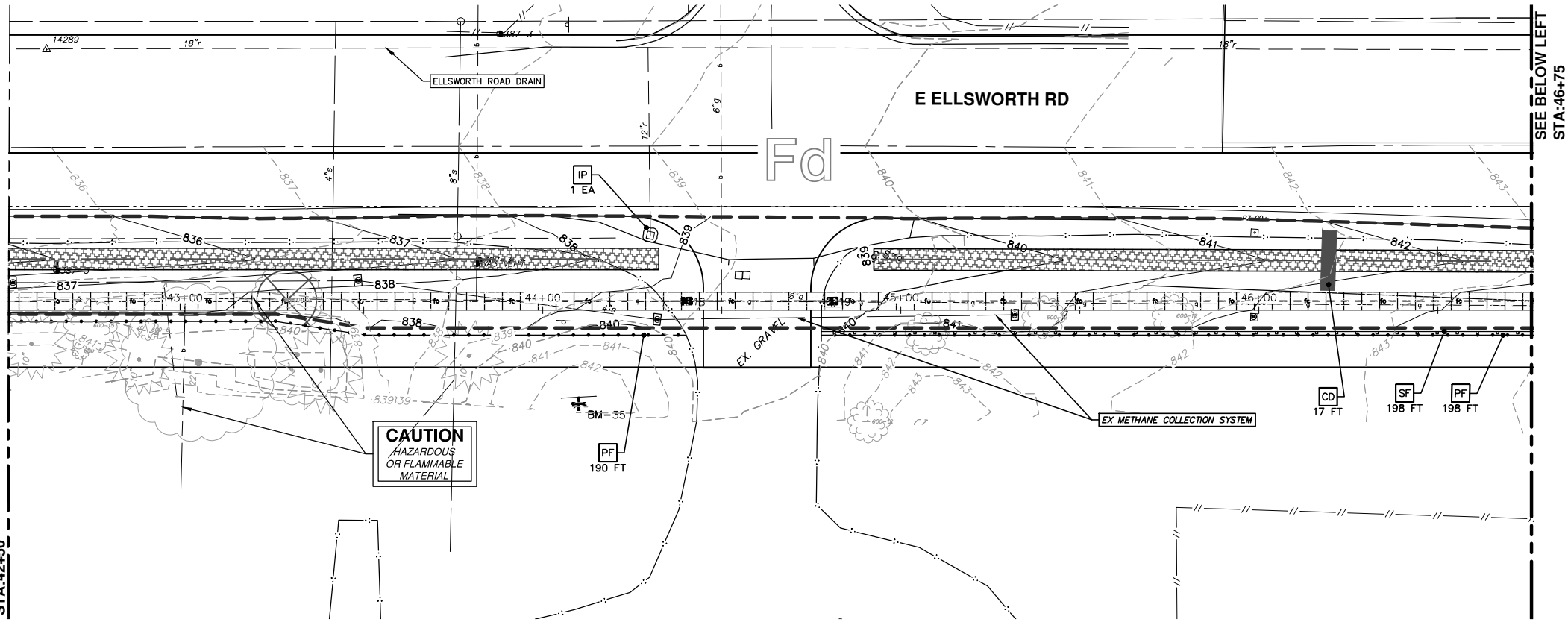
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
WHEELER CENTER SIDEWALK - PHASE 1  
SOIL EROSION CONTROLS AND WATER QUALITY IMPROVEMENTS  
ELLSWORTH ROAD STA. 34+00 - STA. 42+50

SCALE PLAN: 1" = 20'  
DRAWING No.  
2014031-11

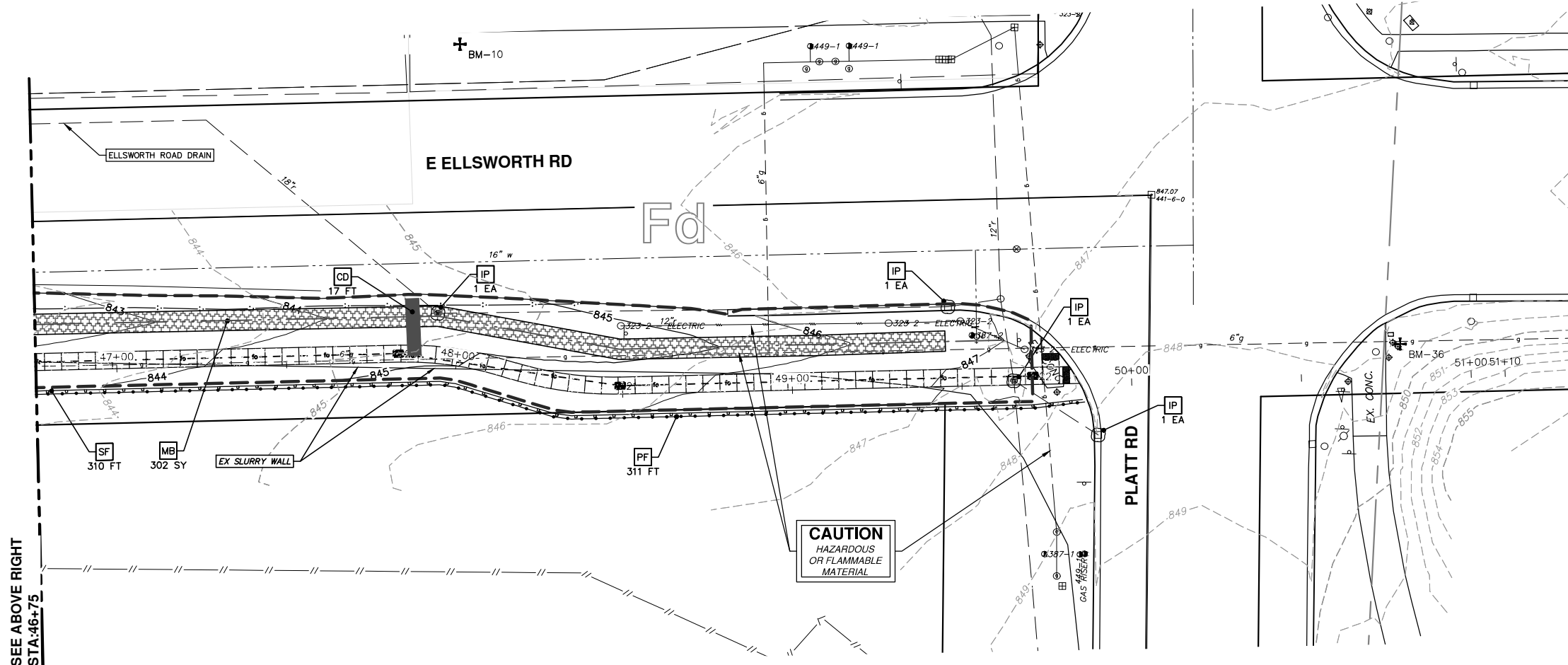
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SEE SHEET 11  
STA:42+50



SEE BELOW LEFT  
STA:46+75



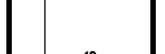
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STA:46+75

SESC MEASURES KEY	
KEY	DESCRIPTION
SF	INSTALL SILT FENCE
PF	INSTALL PROTECTIVE FENCING
CD	INSTALL CHECK DAM, STONE
ID	INTERCEPTING DITCH
RR	INSTALL RIP-RAP
SB	TEMPORARY SEDIMENT BASIN
TS	TEMPORARY INLET STRUCTURE
BAG	SAND BAG
TM	TEMPORARY SEEDING/MULCH BLANKET
GFB	GRAVEL FILTER BERM
MB	MULCH BLANKET, HIGH VELOCITY
OS	INSTALL OUTLET STRUCTURE
IP	INSTALL INLET FILTER



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	OUT FOR BID	4-15-16	CEC/DFP	DAD
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

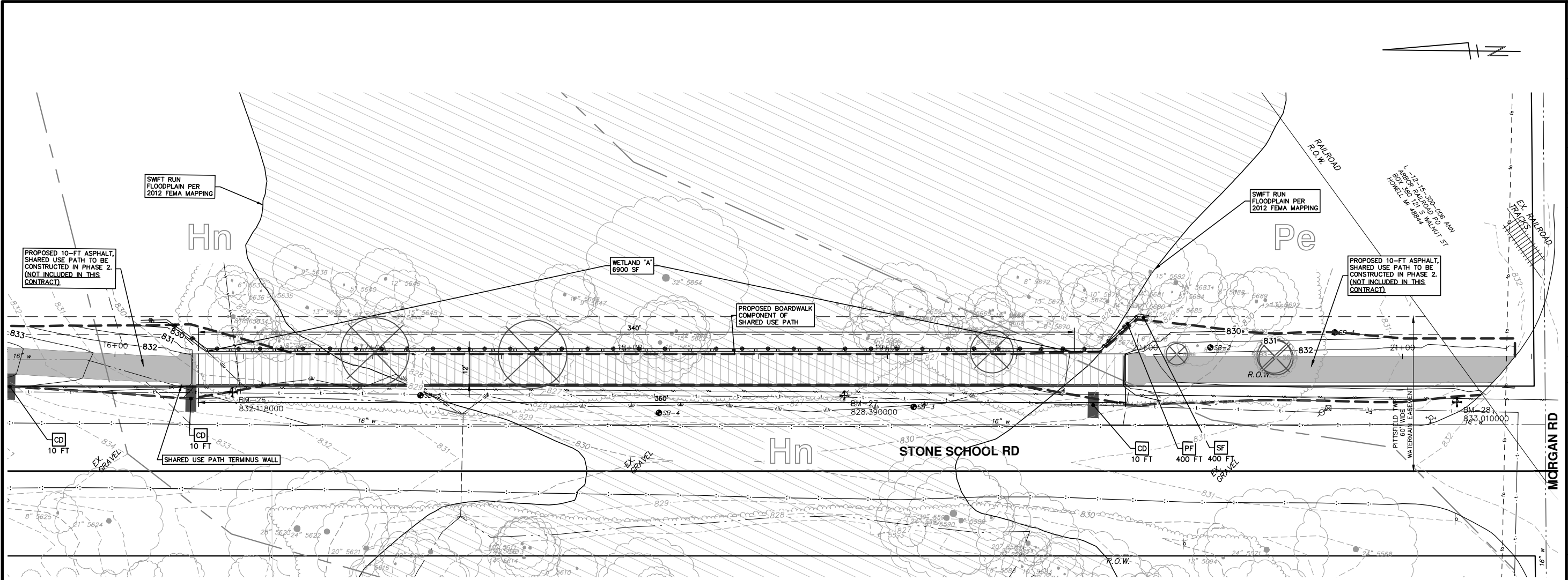
CITY OF ANN ARBOR  
PUBLIC SERVICE  
301 EAST HURON STREET  
ANN ARBOR, MI 48107-8647  
ANN ARBOR 734.764.6410  
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
WHEELER CENTER SIDEWALK - PHASE 1  
SOIL EROSION CONTROLS AND WATER QUALITY IMPROVEMENTS  
ELLSWORTH ROAD STA. 42+50 - P.O.E.

SCALE PLAN: 1" = 20'  
DRAWING No. 2014031-12

S:\Project Management\Design\2014031 Wheeler Center PUD\Plan Production\Construction Set\2014031SESC1.dwg Dwg Created: 7-Oct-15 - \_c2 standard bw.stb - Plot Date: 12-Apr-16



SESC MEASURES KEY	
KEY	DESCRIPTION
SF	INSTALL SILT FENCE
PF	INSTALL PROTECTIVE FENCING
CD	INSTALL CHECK DAM, STONE
ID	INTERCEPTING DITCH
RR	INSTALL RIP-RAP
SB	TEMPORARY SEDIMENT BASIN
TS	TEMPORARY INLET STRUCTURE
BAG	SAND BAG
TM	TEMPORARY SEEDING/MULCH BLANKET
GFB	GRAVEL FILTER BERM
MB	MULCH BLANKET, HIGH VELOCITY
OS	INSTALL OUTLET STRUCTURE
IP	INSTALL INLET FILTER

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**WHEELER CENTER SIDEWALK - PHASE 1**  
 SOIL EROSION CONTROLS AND WATER QUALITY IMPROVEMENTS  
 STONE SCHOOL ROAD BOARDWALK

SCALE PLAN: 1" = 20'  
 DRAWING No. 2014031-13

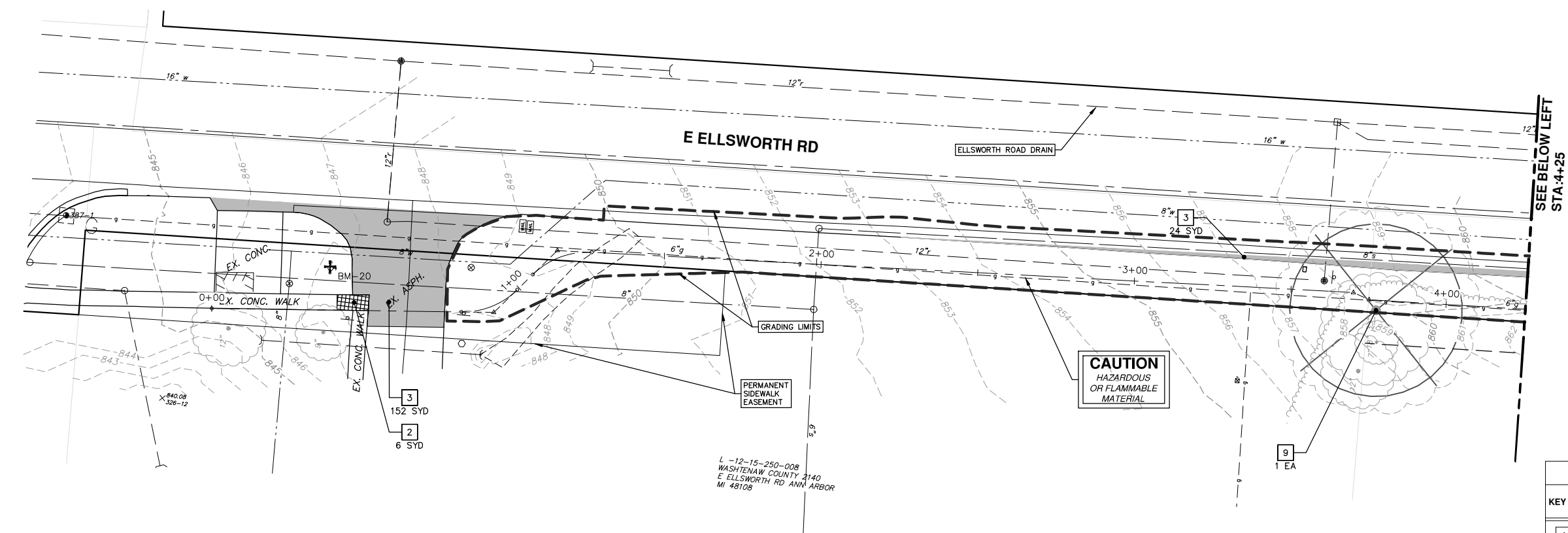
**811**  
 Know what's below.  
 Call Before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

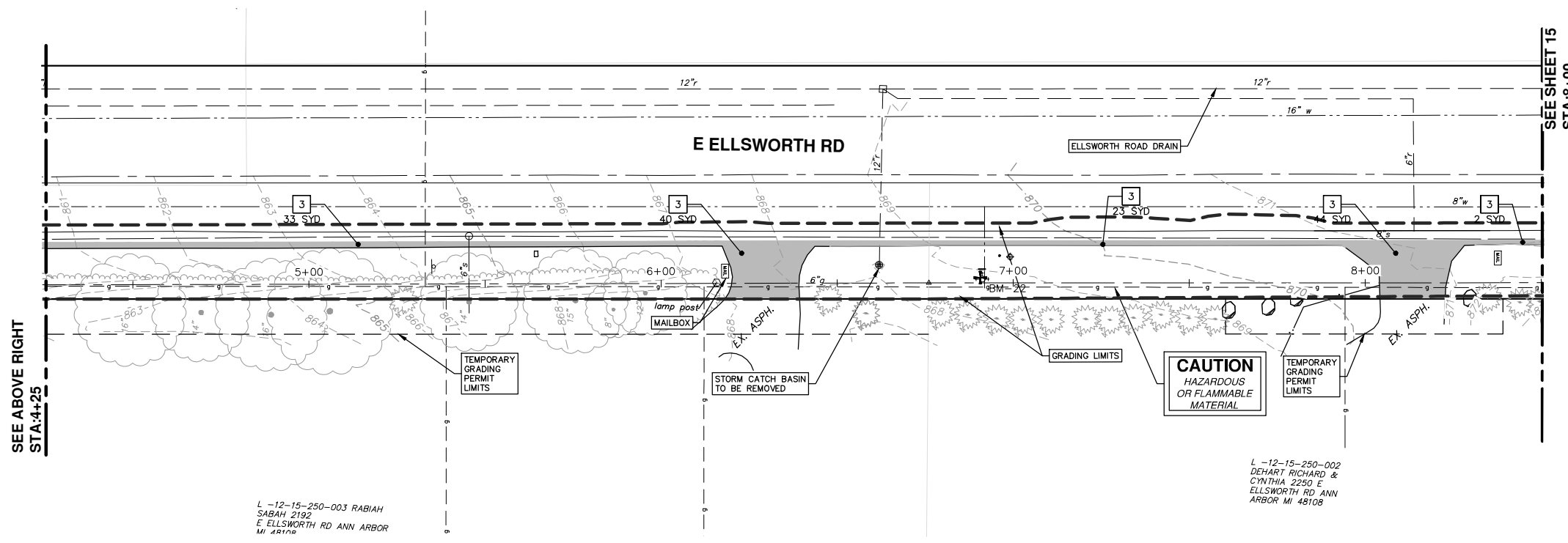
CITY OF ANN ARBOR  
 PUBLIC SERVICE  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-0786  
 ANN ARBOR FAX 734.764.4410  
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SEE BELOW LEFT  
STA:4+25

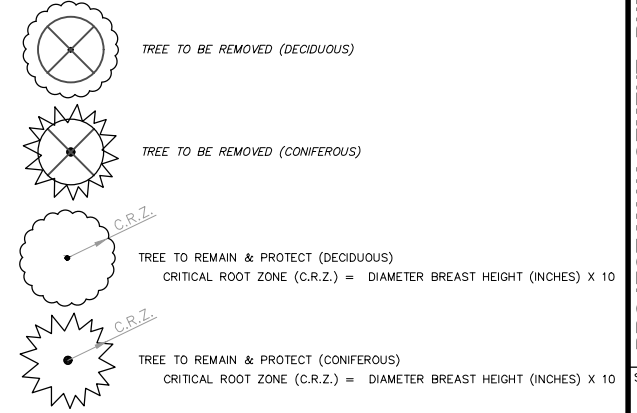


SEE SHEET 15  
STA:8+00

SEE ABOVE RIGHT  
STA:4+25

REMOVAL KEY	
KEY	DESCRIPTION
1	CURB AND GUTTER, REM
2	SIDEWALK, REM
3	REMOVE EXISTING PAVEMENT - ANY THICKNESS, SAWCUT FULL DEPTH AT REMOVAL LIMITS
4	GUARDRAIL, REM
5	FENCE, REM
6	RELOCATE BY OWNER
7	REMOVE EXISTING GRAVEL - ANY THICKNESS, (INCLUDED IN WORK ITEM "MACHINE GRADING, MODIFIED, _____")
8	TREE, REM, 6 INCH TO 18 INCH
9	TREE, REM, 19 INCH TO 36 INCH

LEGEND



L-12-15-250-003 RABIAH  
SABAH 2192  
E ELLSWORTH RD ANN ARBOR  
MI 48108

L-12-15-250-002  
DEHART RICHARD &  
CYNTHIA 2250 E  
ELLSWORTH RD ANN  
ARBOR MI 48108



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	OUT FOR BID	4-15-16	CEC/DFP	DAD
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

CITY OF ANN ARBOR  
PUBLIC SERVICE  
301 EAST HURON STREET  
ANN ARBOR MI 48106-0847  
ANN ARBOR 734.764.6410  
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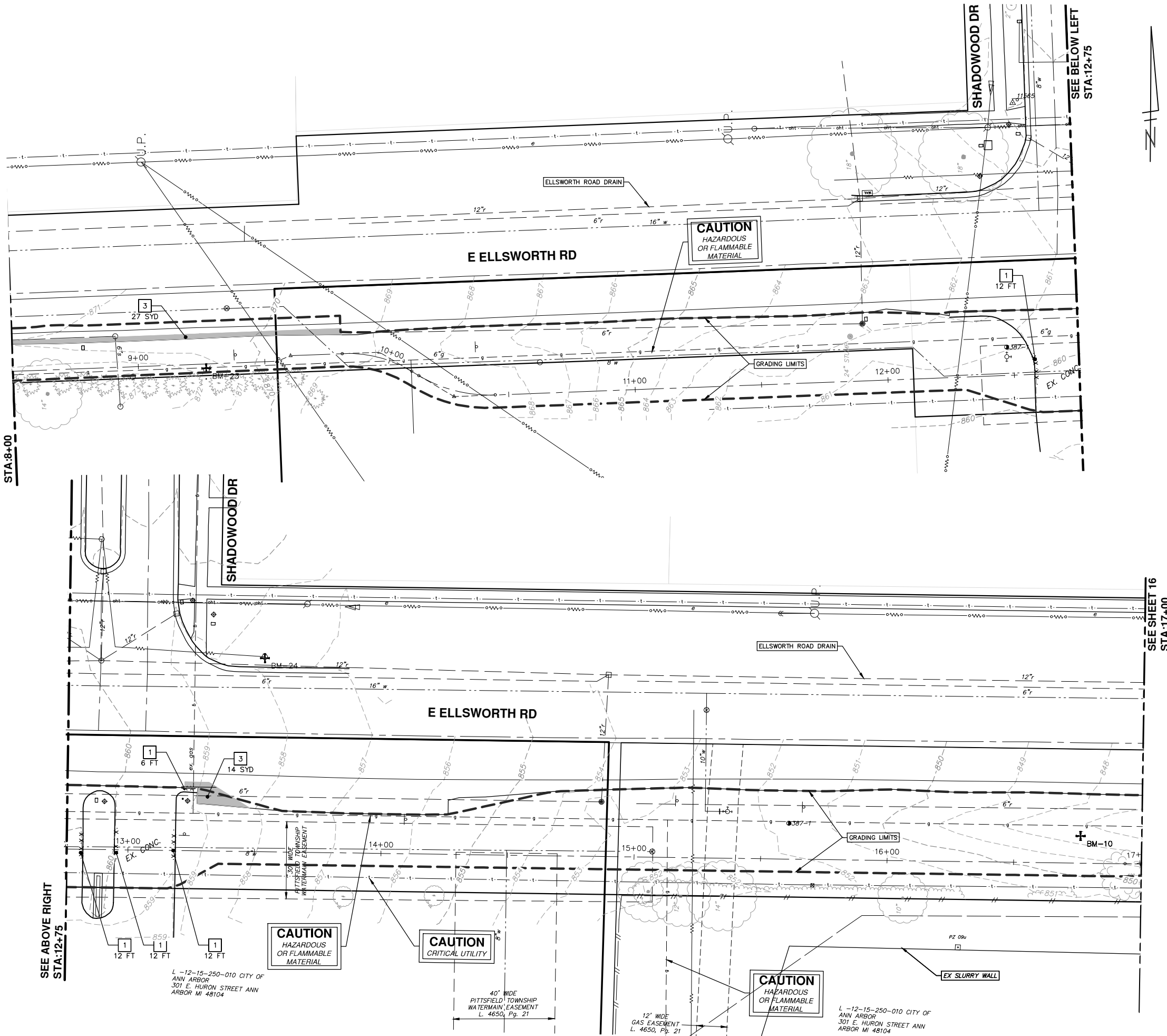


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
WHEELER CENTER SIDEWALK - PHASE 1  
ELLSWORTH ROAD REMOVALS STA. 0+00 - STA. 8+50

SCALE: 1" = 20'  
DRAWING No. 2014031-14  
SHEET No.

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SEE SHEET 14  
STA: 8+00



SEE ABOVE RIGHT  
STA: 12+75

L-12-15-250-010 CITY OF ANN ARBOR  
301 E. HURON STREET ANN ARBOR MI 48104

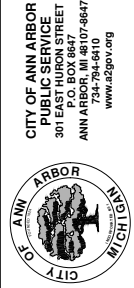
40' WIDE PITTSFIELD TOWNSHIP WATERMAIN EASEMENT L. 4650, Pg. 21

12' WIDE GAS EASEMENT L. 4650, Pg. 21

L-12-15-250-010 CITY OF ANN ARBOR  
301 E. HURON STREET ANN ARBOR MI 48104

SEE SHEET 16  
STA: 17+00

REMOVAL KEY	
KEY	DESCRIPTION
1	CURB AND GUTTER, REM
2	SIDEWALK, REM
3	REMOVE EXISTING PAVEMENT - ANY THICKNESS, SAWCUT FULL DEPTH AT REMOVAL LIMITS
4	GUARDRAIL, REM
5	FENCE, REM
6	RELOCATE BY OWNER
7	REMOVE EXISTING GRAVEL - ANY THICKNESS, (INCLUDED IN WORK ITEM "MACHINE GRADING, MODIFIED, ...")
8	TREE, REM, 6 INCH TO 18 INCH
9	TREE, REM, 19 INCH TO 36 INCH



**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**WHEELER CENTER SIDEWALK - PHASE 1**  
 ELLSWORTH ROAD REMOVALS STA. 8+50 - STA. 17+00

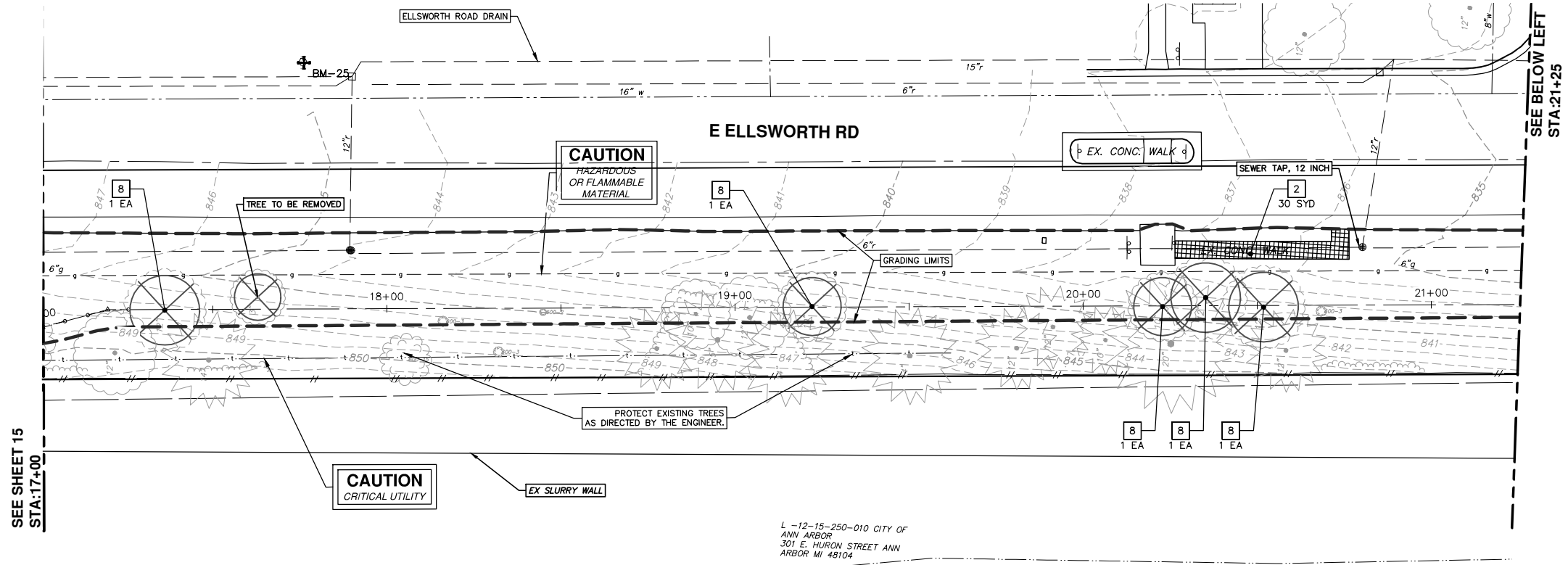
SCALE: 1" = 20'  
 DRAWING NO. 2014031-15

SHEET No. 15 OF 41

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

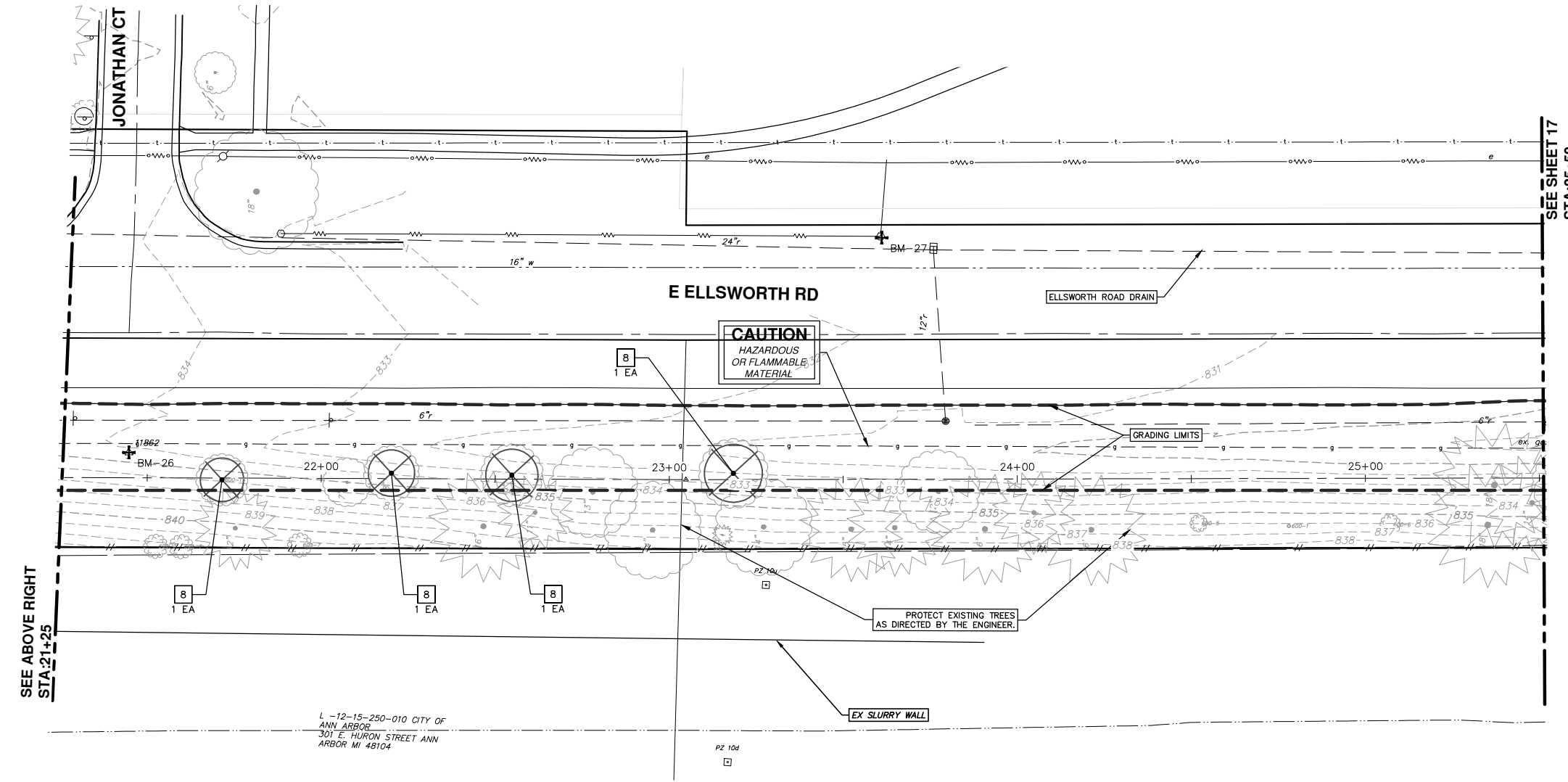


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SEE SHEET 15  
STA:17+00

SEE BELOW LEFT  
STA:21+25



SEE ABOVE RIGHT  
STA:21+25

SEE SHEET 17  
STA:25+50

L-12-15-250-010 CITY OF ANN ARBOR  
301 E. HURON STREET ANN ARBOR MI 48104

PZ 10d


REMOVAL KEY	
KEY	DESCRIPTION
1	CURB AND GUTTER, REM
2	SIDEWALK, REM
3	REMOVE EXISTING PAVEMENT - ANY THICKNESS, SAWCUT FULL DEPTH AT REMOVAL LIMITS
4	GUARDRAIL, REM
5	FENCE, REM
6	RELOCATE BY OWNER
7	REMOVE EXISTING GRAVEL - ANY THICKNESS, (INCLUDED IN WORK ITEM "MACHINE GRADING, MODIFIED, ...")
8	TREE, REM, 6 INCH TO 18 INCH
9	TREE, REM, 19 INCH TO 36 INCH

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
WHEELER CENTER SIDEWALK - PHASE 1  
ELLSWORTH ROAD REMOVALS STA. 17+00 - STA. 25+50

SCALE: 1" = 20'

DRAWING No. 2014031-16

SHEET No. 16 OF 41

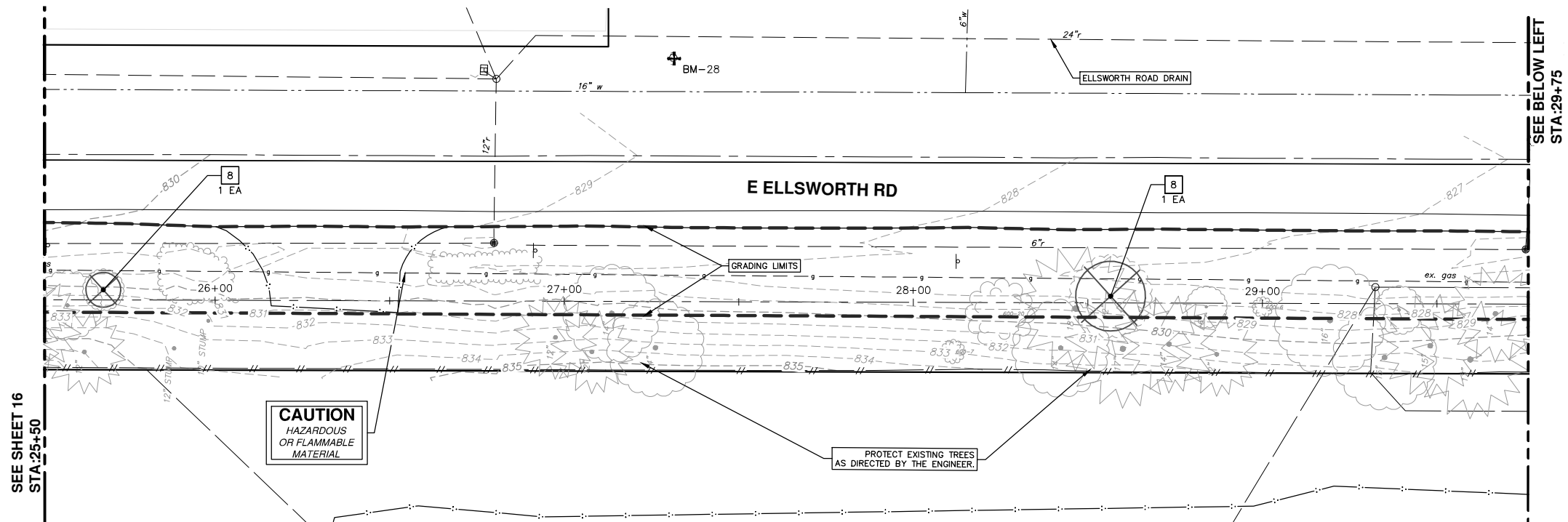


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ANN ARBOR MI 48106  
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REV.	DATE	DESCRIPTION
01	4-15-16	CEC/DFP
00	10-22-15	CEC
		DRAWN
		CHECKED

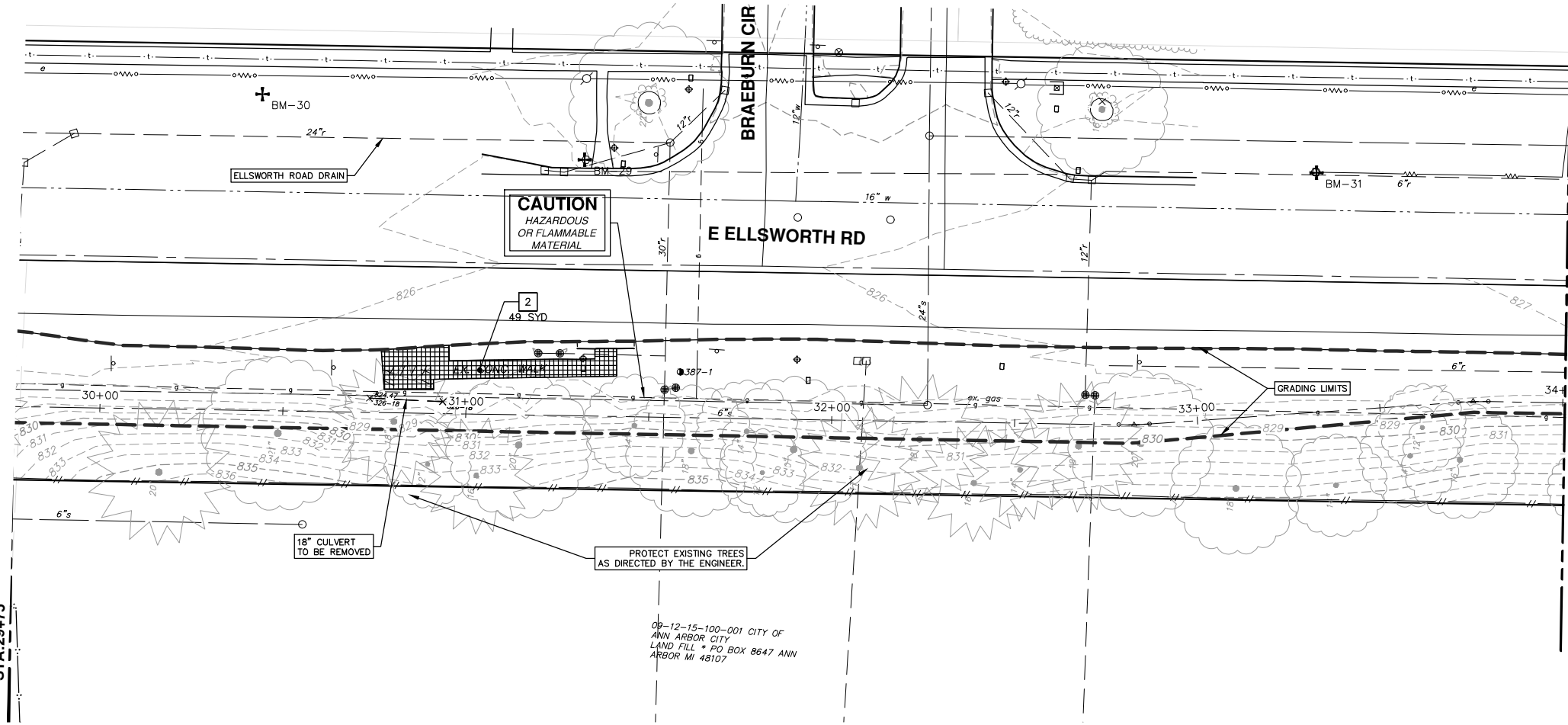


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SEE SHEET 16  
STA:29+50

SEE BELOW LEFT  
STA:29+75



SEE ABOVE RIGHT  
STA:29+75

SEE SHEET 18  
STA:34+00



REMOVAL KEY	
KEY	DESCRIPTION
1	CURB AND GUTTER, REM
2	SIDEWALK, REM
3	REMOVE EXISTING PAVEMENT - ANY THICKNESS, SAWCUT FULL DEPTH AT REMOVAL LIMITS
4	GUARDRAIL, REM
5	FENCE, REM
6	RELOCATE BY OWNER
7	REMOVE EXISTING GRAVEL - ANY THICKNESS, (INCLUDED IN WORK ITEM *MACHINE GRADING, MODIFIED, ---*)
8	TREE, REM, 6 INCH TO 18 INCH
9	TREE, REM, 19 INCH TO 36 INCH

09-12-15-100-001 CITY OF ANN ARBOR CITY LAND FILL \* PO BOX 8647 ANN ARBOR MI 48107



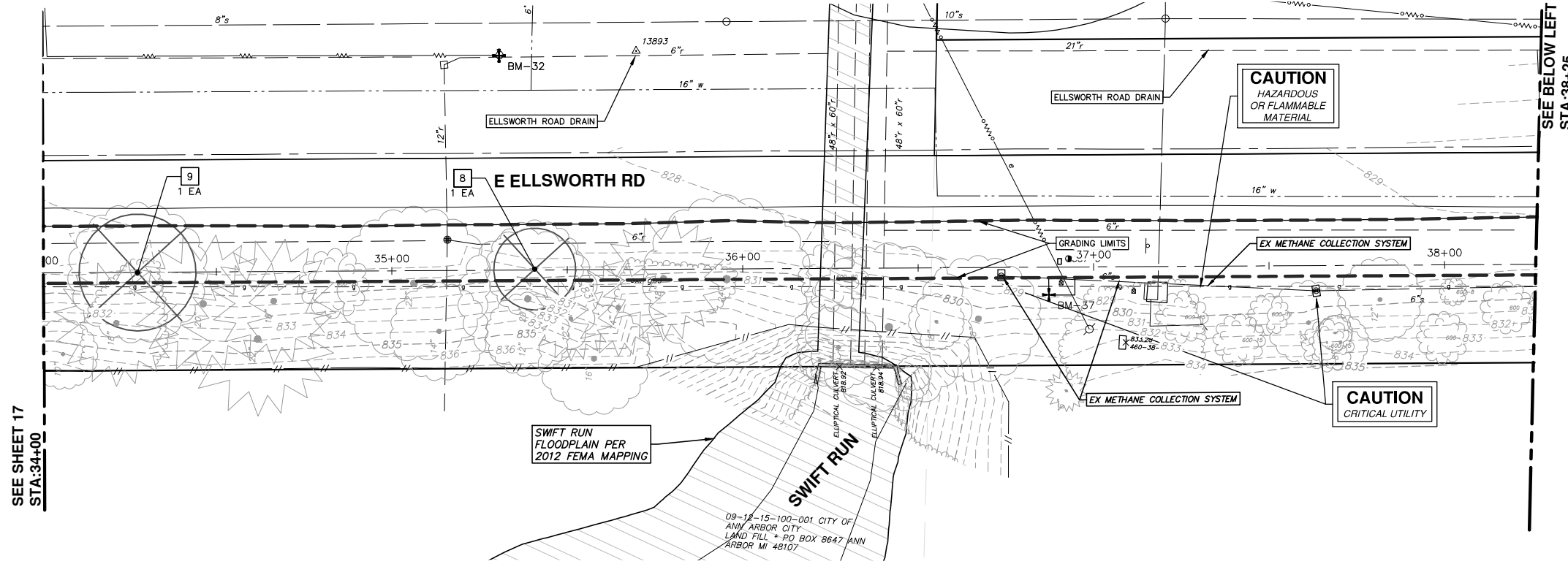
REV.	DATE	DRAWN	CHECKED	DESCRIPTION
01	4-15-16	CEC/DFP	DAD	OUT FOR BID
00	10-22-15	CEC	DAD	PATH - PER PITTSFIELD TWP COMMENTS

CITY OF ANN ARBOR  
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ANN ARBOR MI 48107  
ANN ARBOR 734.764.8410  
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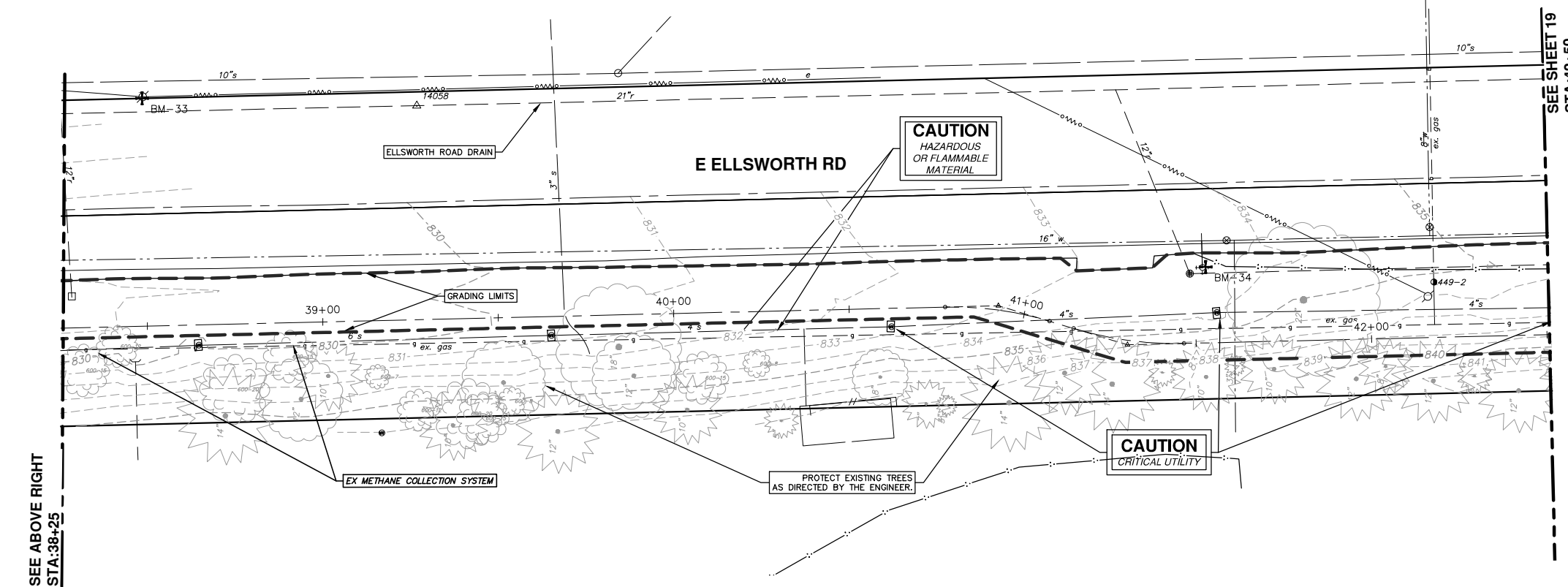
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
WHEELER CENTER SIDEWALK - PHASE 1  
ELLSWORTH ROAD REMOVALS STA. 25+50 - STA. 34+00

SCALE: 1" = 20'  
DRAWING No.  
2014031-17



SEE SHEET 17  
STA:34+00

SEE BELOW LEFT  
STA:38+25



SEE ABOVE RIGHT  
STA:38+25

SEE SHEET 19  
STA:42+50

REMOVAL KEY	
KEY	DESCRIPTION
1	CURB AND GUTTER, REM
2	SIDEWALK, REM
3	REMOVE EXISTING PAVEMENT - ANY THICKNESS, SAWCUT FULL DEPTH AT REMOVAL LIMITS
4	GUARDRAIL, REM
5	FENCE, REM
6	RELOCATE BY OWNER
7	REMOVE EXISTING GRAVEL - ANY THICKNESS, (INCLUDED IN WORK ITEM "MACHINE GRADING, MODIFIED, ...")
8	TREE, REM, 6 INCH TO 18 INCH
9	TREE, REM, 19 INCH TO 36 INCH

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**WHEELER CENTER SIDEWALK - PHASE 1**  
 ELLSWORTH ROAD REMOVALS STA. 34+00 - STA. 42+50

SCALE: 1" = 20'

DRAWING No. 2014031-18

SHEET No. 18 OF 41

**CITY OF ANN ARBOR**  
 PUBLIC SERVICE  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48107-8647  
 ANN ARBOR: 734.794.4410  
 www.a2gov.org

**ANN ARBOR MICHIGAN**

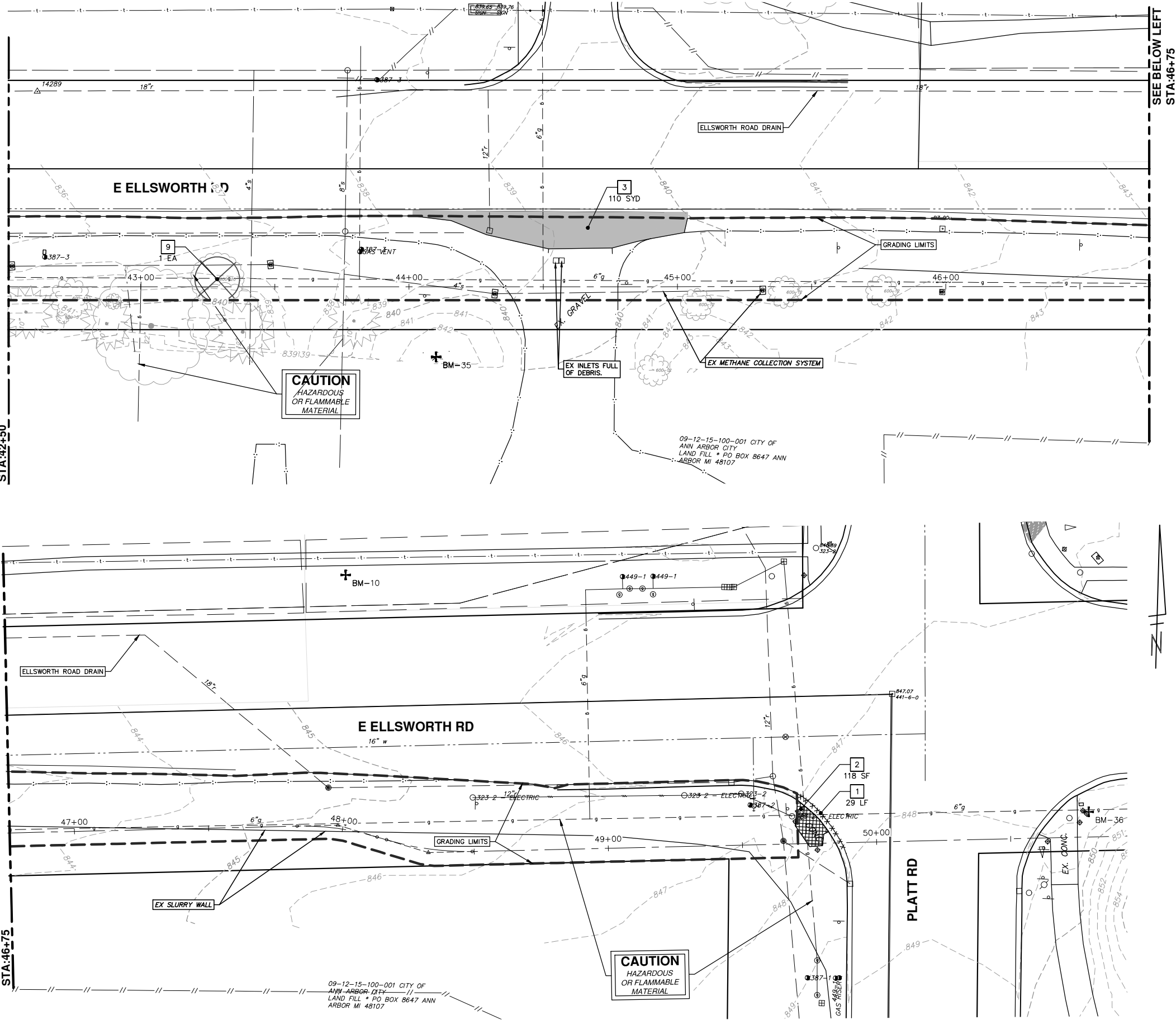
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	OUT FOR BID	4-15-16	CEC/DFP	DAD
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

Know what's below.  
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S:\Project Management\Design\2014031 Wheeler Center PUD\Plan Production\Construction Set\2014031Rem.dwg Dwg Created: 17-Aug-15 - \_a2\_standard.bw.stb - Plot Date: 12-Apr-16

SEE SHEET 18  
STA:42+50

SEE ABOVE RIGHT  
STA:46+75




REMOVAL KEY	
KEY	DESCRIPTION
1	CURB AND GUTTER, REM
2	SIDEWALK, REM
3	REMOVE EXISTING PAVEMENT - ANY THICKNESS, SAWCUT FULL DEPTH AT REMOVAL LIMITS
4	GUARDRAIL, REM
5	FENCE, REM
6	RELOCATE BY OWNER
7	REMOVE EXISTING GRAVEL - ANY THICKNESS, (INCLUDED IN WORK ITEM "MACHINE GRADING, MODIFIED, ...")
8	TREE, REM, 6 INCH TO 18 INCH
9	TREE, REM, 19 INCH TO 36 INCH

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
WHEELER CENTER SIDEWALK - PHASE 1  
ELLSWORTH ROAD REMOVALS STA. 42+50 - P.O.E.

SCALE: 1" = 20'

DRAWING No. **2014031-19**

SHEET No. **19 OF 41**

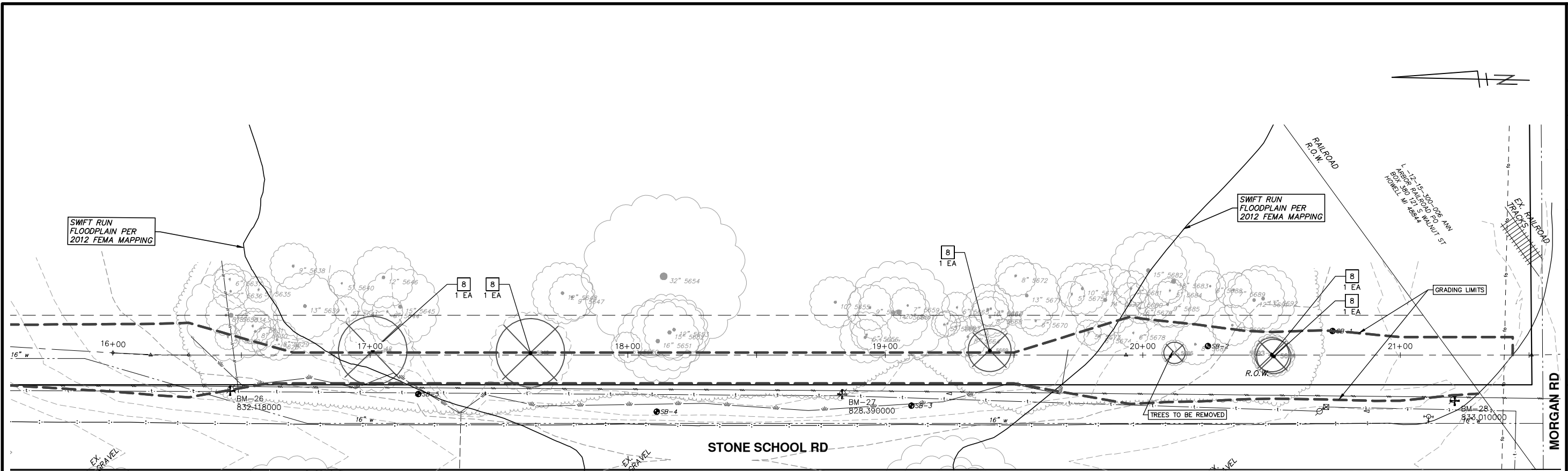


CITY OF ANN ARBOR  
PUBLIC SERVICES  
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ANN ARBOR, MI 48107  
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	OUT FOR BID	4-15-16	CEC/DFP	DAD
00	PATH - PER PITTSFIELD TMP COMMENTS	10-22-15	CEC	DAD

Know what's below.  
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S:\Project Management\Design\2014031 Wheeler Center PUD\Plan Production\Construction Set\2014031REM1.dwg Dwg Created: 19-Aug-15 - \_a2 standard bw.stb - Plot Date: 12-Apr-16



REMOVAL KEY	
KEY	DESCRIPTION
1	CURB AND GUTTER, REM
2	SIDEWALK, REM
3	REMOVE EXISTING PAVEMENT - ANY THICKNESS, SAWCUT FULL DEPTH AT REMOVAL LIMITS
4	GUARDRAIL, REM
5	FENCE, REM
6	RELOCATE BY OWNER
7	REMOVE EXISTING GRAVEL - ANY THICKNESS, (INCLUDED IN WORK ITEM "MACHINE GRADING, MODIFIED, ___")
8	TREE, REM, 6 INCH TO 18 INCH
9	TREE, REM, 19 INCH TO 36 INCH

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**WHEELER CENTER SIDEWALK - PHASE 1**  
 STONE SCHOOL ROAD REMOVALS  
 STONE SCHOOL ROAD BOARDWALK

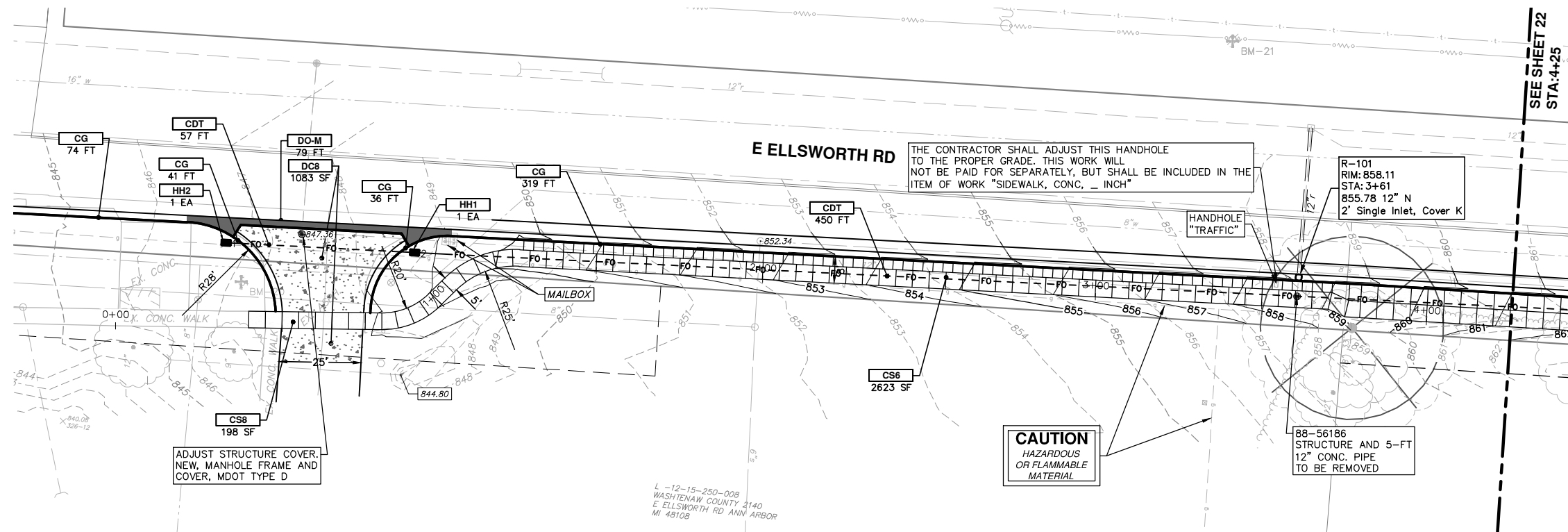
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 DRAWING No. 2014031-20

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

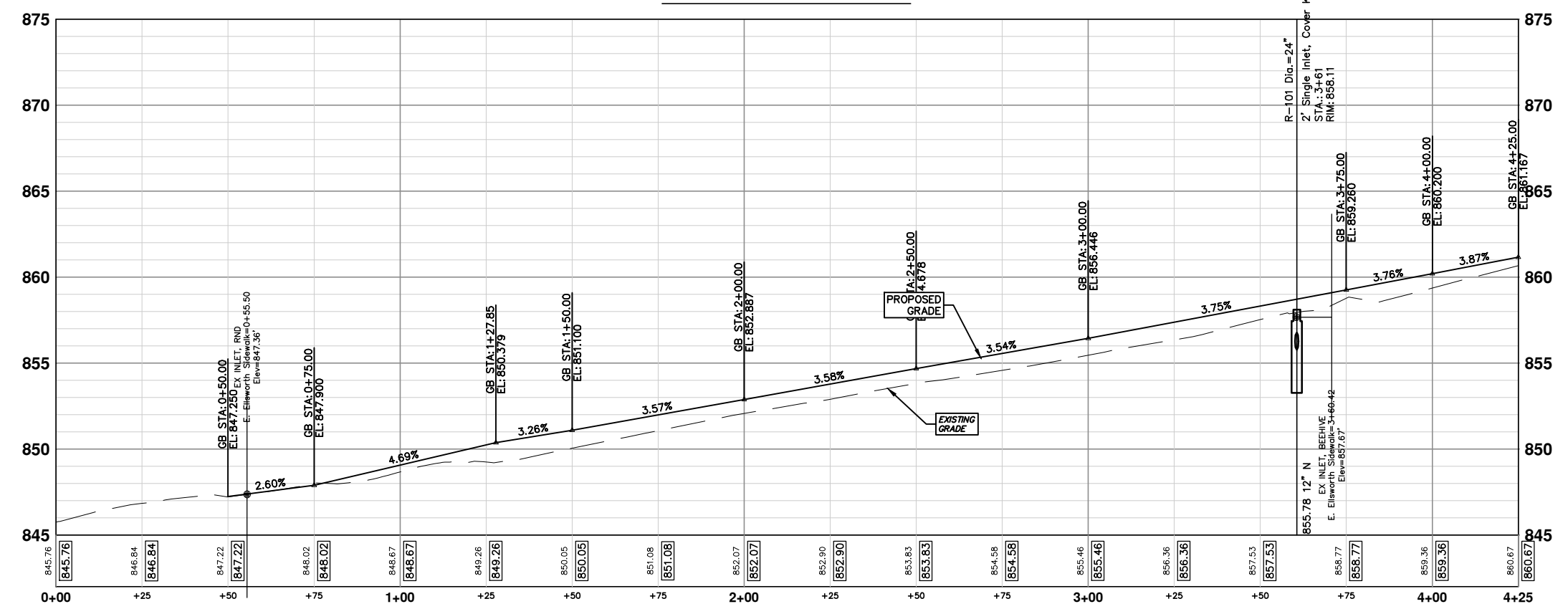
811  
 Know what's below.  
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CONSTRUCTION KEY	
KEY	DESCRIPTION
CS4	PLACE SIDEWALK, CONC. 4 INCH, SPECIAL
CS6	PLACE SIDEWALK, CONC. 6 INCH, SPECIAL
CS8	PLACE SIDEWALK, CONC. 8 INCH, SPECIAL
CSR8	PLACE SIDEWALK RAMP, CONC. 8 INCH, ADA, MOD
DH	PLACE 4" HMA DRIVE OR WALK
ABO	ADJUST BY OTHERS
DWS	DETECTABLE WARNING SURFACE, MODIFIED
CDT	CONDUIT, DB, 2, 3 INCH
HH1	HANDHOLE ASSEMBLY, 12 INCH X 18 INCH
HH2	HANDHOLE ASSEMBLY, 17 INCH X 30 INCH

**E. ELLSWORTH SIDEWALK**



**CONSTRUCTION NOTES**

- FOR SIDEWALK AND PAVEMENT REMOVALS, SAWCUT EXISTING MATERIAL FULL-DEPTH AT REMOVAL LIMITS AS DIRECTED BY THE ENGINEER. PAYMENT FOR SAWCUT INCLUDED IN "MACHINE GRADING, MODIFIED, -" AS DETAILED IN THE PLANS AND SPECIFICATIONS.
- PLACE SIDEWALK AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH PAVING DETAIL SHEETS, GRADING DETAIL SHEETS, AND PROJECT SPECIFICATIONS. SEE PAVING DETAIL SHEETS FOR SIDEWALK JOINT LAYOUT AND OTHER RELEVANT INFORMATION.
- MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES USING PART-WIDTH CONSTRUCTION METHODS AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL COORDINATE PART-WIDTH CONSTRUCTION OF DRIVEWAYS FOR WATER MAIN, PAVING, AND OTHER OPERATIONS WITH THE PROPERTY OWNER. PAYMENT FOR ALL COORDINATION EFFORTS AND PART-WIDTH CONSTRUCTION METHODS INCLUDED IN "PART-WIDTH CONSTRUCTION, SPECIAL". SEE GRADING DETAIL SHEETS FOR DRIVEWAY GRADE DETAILS.
- THE CONTRACTOR SHALL CAREFULLY PROTECT FROM DAMAGE OR INJURY DURING CONSTRUCTION OPERATIONS ALL UTILITIES NOT DESIGNATED FOR REMOVAL OR ABANDONMENT. PAYMENT FOR PROTECTION OF UTILITIES INCLUDED IN "MACHINE GRADING, MODIFIED, -" EXISTING FACILITIES NOT DESIGNATED FOR REMOVAL OR ABANDONMENT BUT WHICH ARE DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS SOLE EXPENSE, AS DETERMINED BY THE ENGINEER.
- CONTRACTOR TO PLACE JOINT ALONG SIDEWALK AT LOCATION IN THE PLANS AS DIRECTED BY THE ENGINEER. ALL COSTS ASSOCIATED WITH THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "SIDEWALK, CONCRETE, - INCH, SPECIAL".
- SEE THE LANDSCAPING SHEETS FOR FENCING TO BE REMOVED, SAVED, OR PLACED AS PART OF THIS PROJECT.
- THE EXISTING PEDESTRIAN SIGNALS AND PUSHBUTTONS SHALL BE REMOVED AND RELOCATED DURING THE PROJECT BY THE CITY OF ANN ARBOR SIGNALS AND SIGNALS UNIT.

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**

WHEELER CENTER SIDEWALK - PHASE 1

ELLSWORTH ROAD SIDEWALK PLAN AND PROFILE

STA. 0+00 - STA. 4+25

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

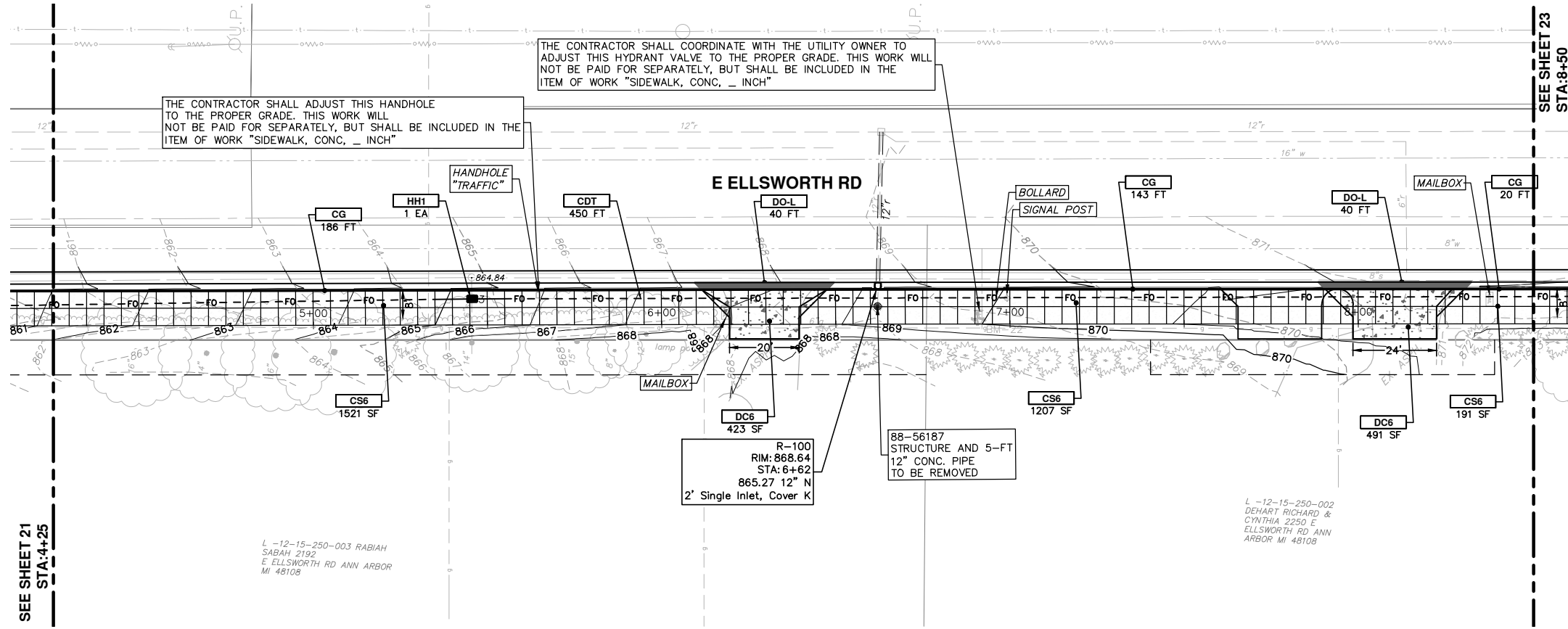
DRAWING NO.: 2014031-21

SHEET NO. 21 OF 41

**CITY OF ANN ARBOR**  
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ANN ARBOR, MI 48106-1000  
734.764.4410  
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DATE: 10-22-15  
DRAWN: CEC  
CHECKED: DAD  
REV. DESCRIPTION

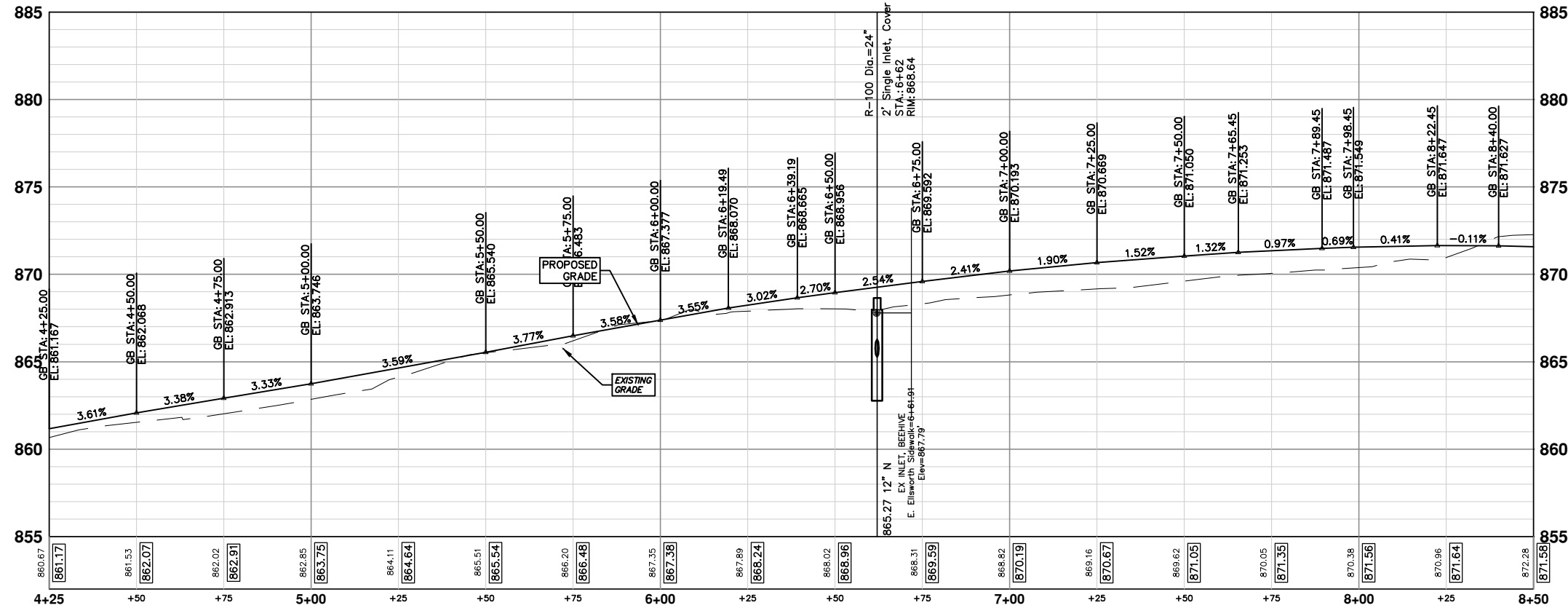
01 OUT FOR BID 4-15-16 CEC/DFE  
00 PATH - PER PITTSFIELD TWP COMMENTS 10-22-15 CEC



SEE SHEET 21  
STA: 4+25

SEE SHEET 23  
STA: 8+50

**E. ELLSWORTH SIDEWALK**



CONSTRUCTION KEY	
KEY	DESCRIPTION
CS4	PLACE SIDEWALK, CONC, 4 INCH, SPECIAL
CS6	PLACE SIDEWALK, CONC, 6 INCH, SPECIAL
CS8	PLACE SIDEWALK, CONC, 8 INCH, SPECIAL
CS8R	PLACE SIDEWALK RAMP, CONC, 8 INCH, ADA, MOD
DH	PLACE 4" HMA DRIVE OR WALK
ABO	ADJUST BY OTHERS
DWS	DETECTABLE WARNING SURFACE, MODIFIED
CDT	CONDUIT, DB, 2, 3 INCH
HH1	HANDHOLE ASSEMBLY, 12 INCH X 18 INCH
HH2	HANDHOLE ASSEMBLY, 17 INCH X 30 INCH

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
WHEELER CENTER SIDEWALK - PHASE 1  
ELLSWORTH ROAD SIDEWALK PLAN AND PROFILE

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

DRAWING No. 2014031-22

SHEET No. 22 OF 41

STA. 4+25 - STA. 8+50

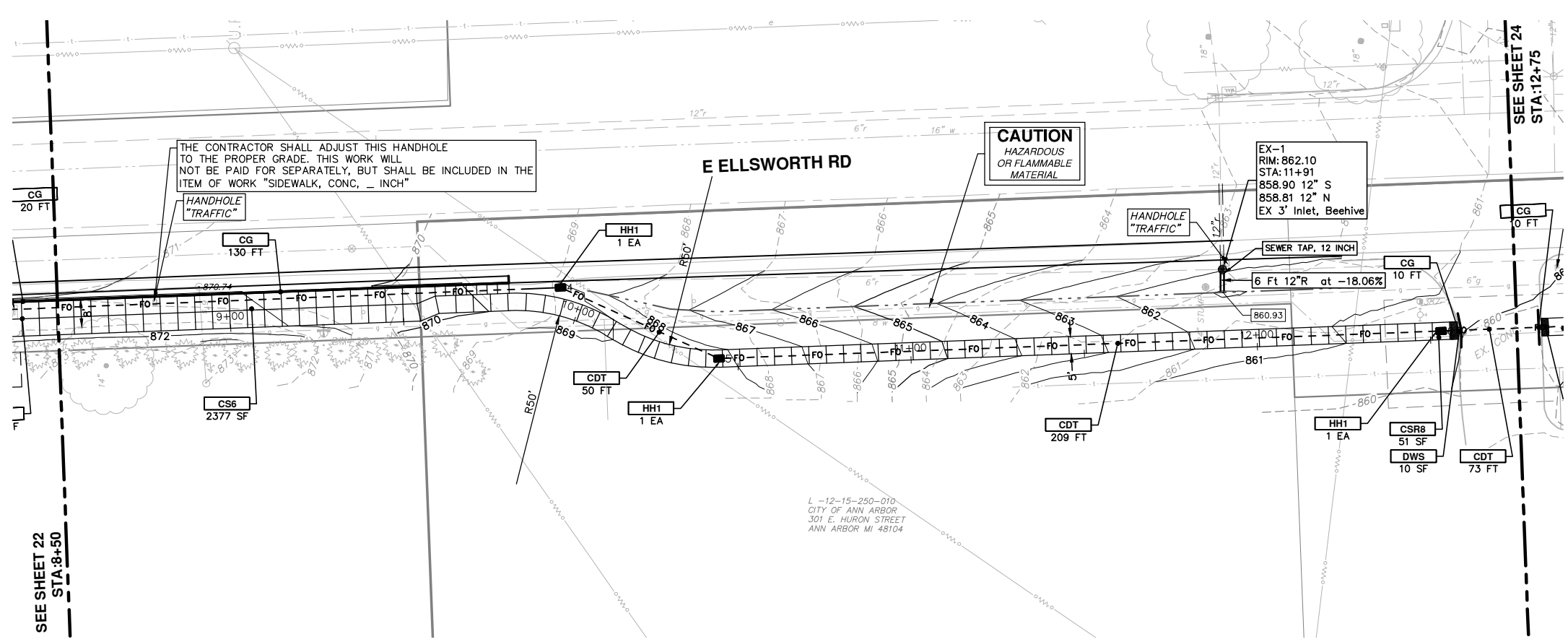
CITY OF ANN ARBOR  
PUBLIC SERVICE  
301 EAST HURON STREET  
ANN ARBOR MI 48106-1000  
734.764.6410  
www.a2gov.org

ANN ARBOR MICHIGAN

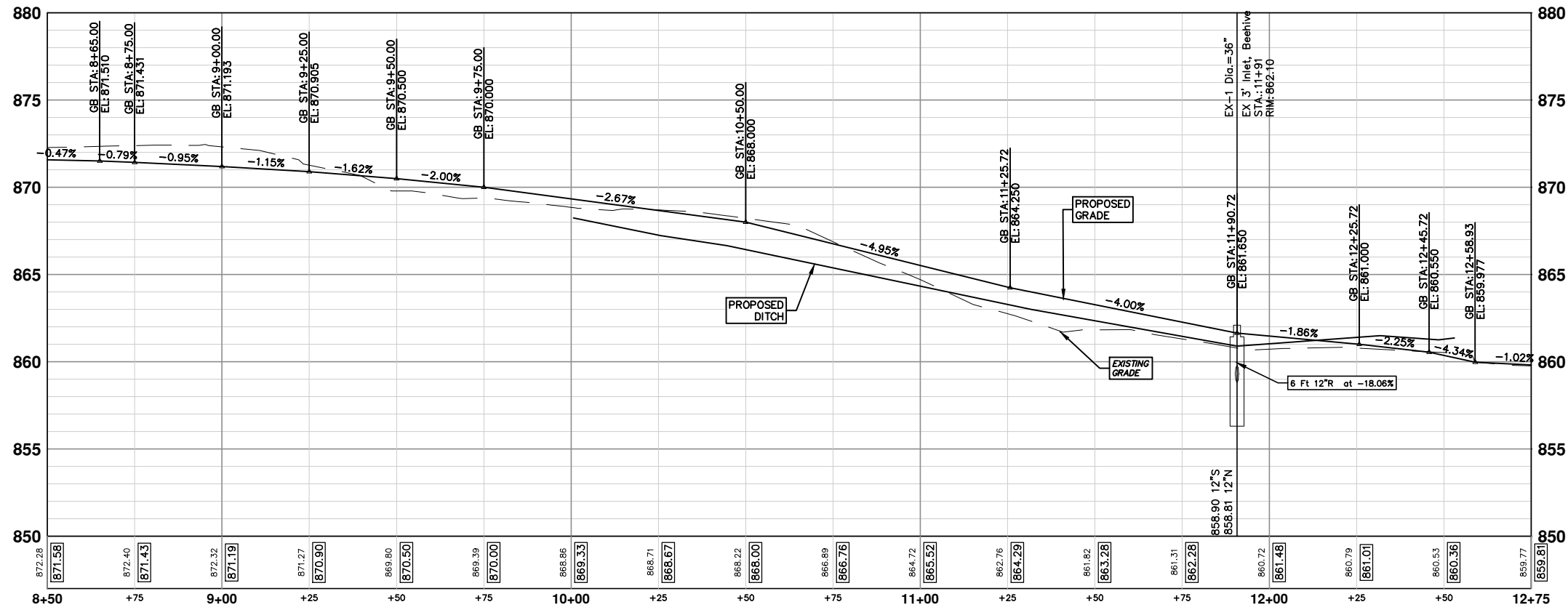
REV.	DATE	DESCRIPTION
01	4-15-16	OUT FOR BID
00	10-22-15	PATH - PER PITTSFIELD TWP COMMENTS

REV.	DATE	DRAWN	CHECKED
		CEC/DFP	DAD

Know what's below. Call Before you dig.



**E. ELLSWORTH SIDEWALK**




CONSTRUCTION KEY	
KEY	DESCRIPTION
CS4	PLACE SIDEWALK, CONC, 4 INCH, SPECIAL
CS6	PLACE SIDEWALK, CONC, 6 INCH, SPECIAL
CS8	PLACE SIDEWALK, CONC, 8 INCH, SPECIAL
CSR8	PLACE SIDEWALK RAMP, CONC, 8 INCH, ADA, MOD
DH	PLACE 4" HMA DRIVE OR WALK
ABO	ADJUST BY OTHERS
DWS	DETECTABLE WARNING SURFACE, MODIFIED
CDT	CONDUIT, DB, 2, 3 INCH
HH1	HANDHOLE ASSEMBLY, 12 INCH X 18 INCH
HH2	HANDHOLE ASSEMBLY, 17 INCH X 30 INCH

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
 WHEELER CENTER SIDEWALK - PHASE 1  
 ELLSWORTH ROAD SIDEWALK PLAN AND PROFILE  
 STA. 8+50 - STA. 12+75

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

DRAWING No.  
**2014031-23**

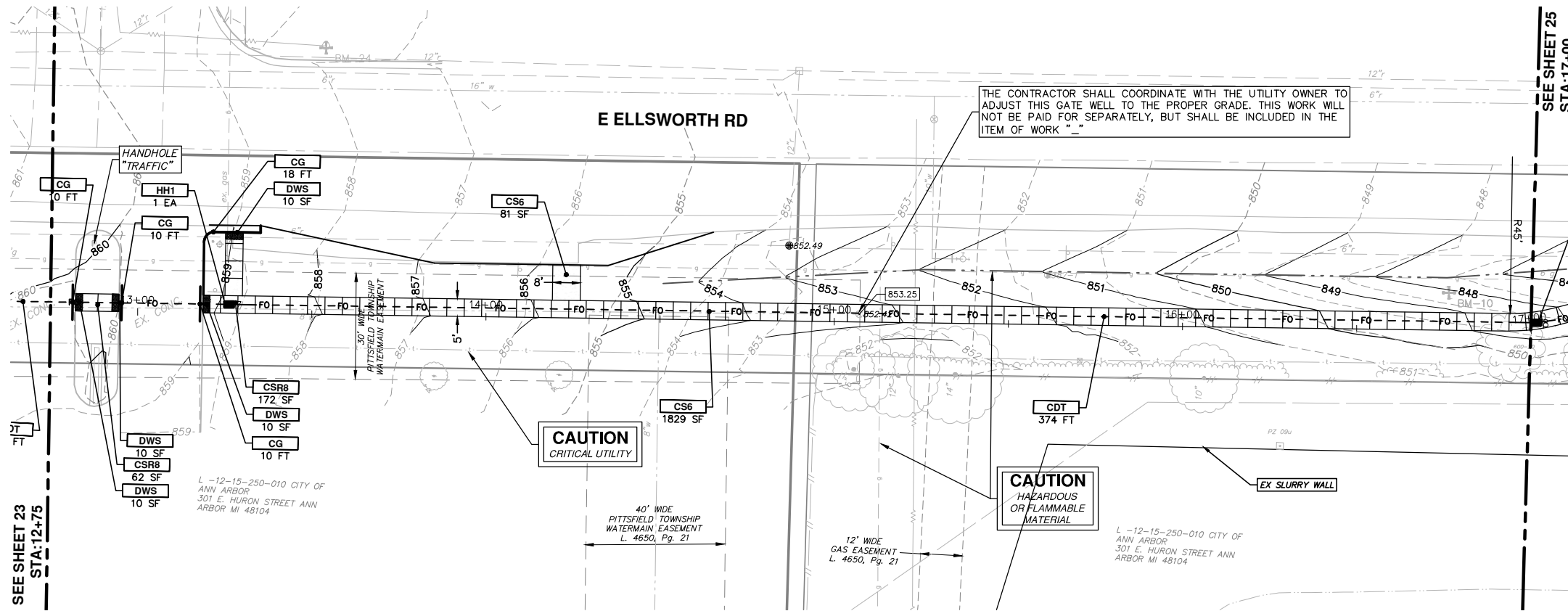
SHEET No.  
**23 OF 41**



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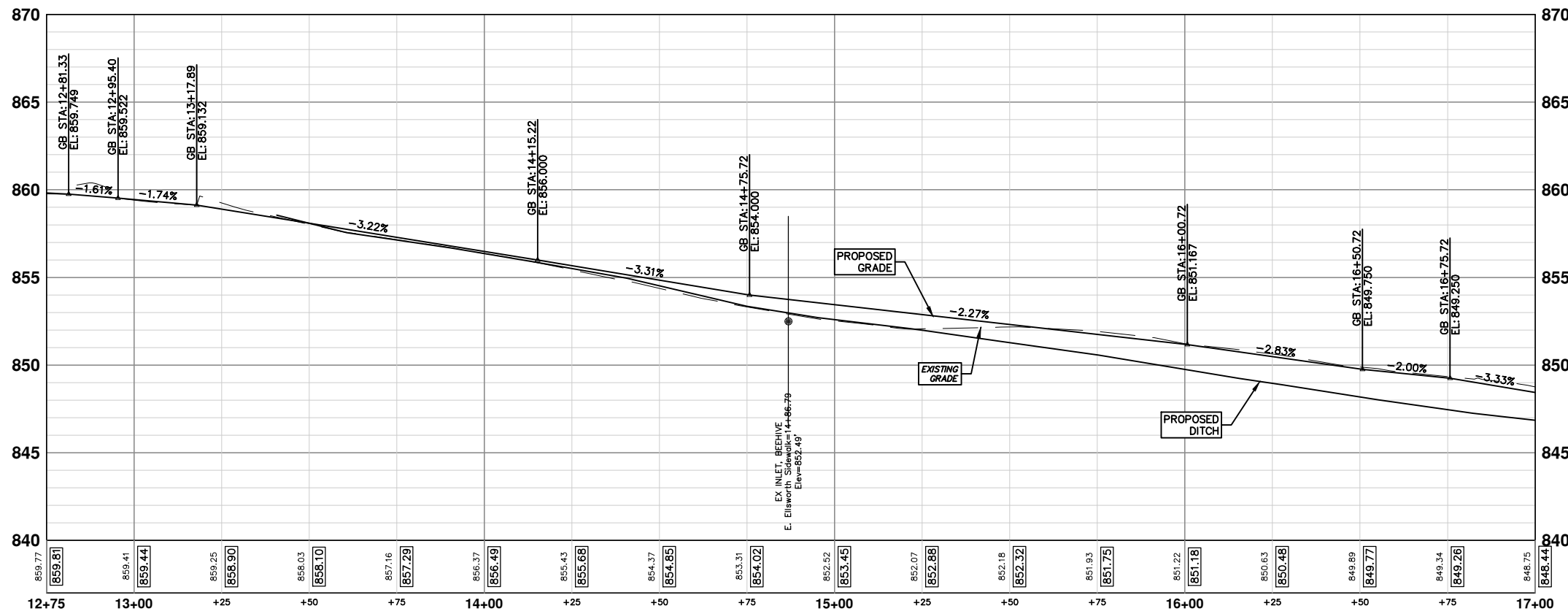
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01	OUT FOR BID	4-15-16	CEC/DFP	DAD
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

Know what's below.  
 Call Before you dig.



CONSTRUCTION KEY	
KEY	DESCRIPTION
CS4	PLACE SIDEWALK, CONC, 4 INCH, SPECIAL
CS6	PLACE SIDEWALK, CONC, 6 INCH, SPECIAL
CS8	PLACE SIDEWALK, CONC, 8 INCH, SPECIAL
CSR8	PLACE SIDEWALK RAMP, CONC, 8 INCH, ADA, MOD
DH	PLACE 4" HMA DRIVE OR WALK
ABO	ADJUST BY OTHERS
DWS	DETECTABLE WARNING SURFACE, MODIFIED
CDT	CONDUIT, DB, 2, 3 INCH
HH1	HANDHOLE ASSEMBLY, 12 INCH X 18 INCH
HH2	HANDHOLE ASSEMBLY, 17 INCH X 30 INCH

**E. ELLSWORTH SIDEWALK**



**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**

WHEELER CENTER SIDEWALK - PHASE 1

ELLSWORTH ROAD SIDEWALK PLAN AND PROFILE

STA. 12+75 - STA. 17+00

SHEET No. 24 OF 41

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

DRAWING No. 2014031-24

**811**  
Know what's below.  
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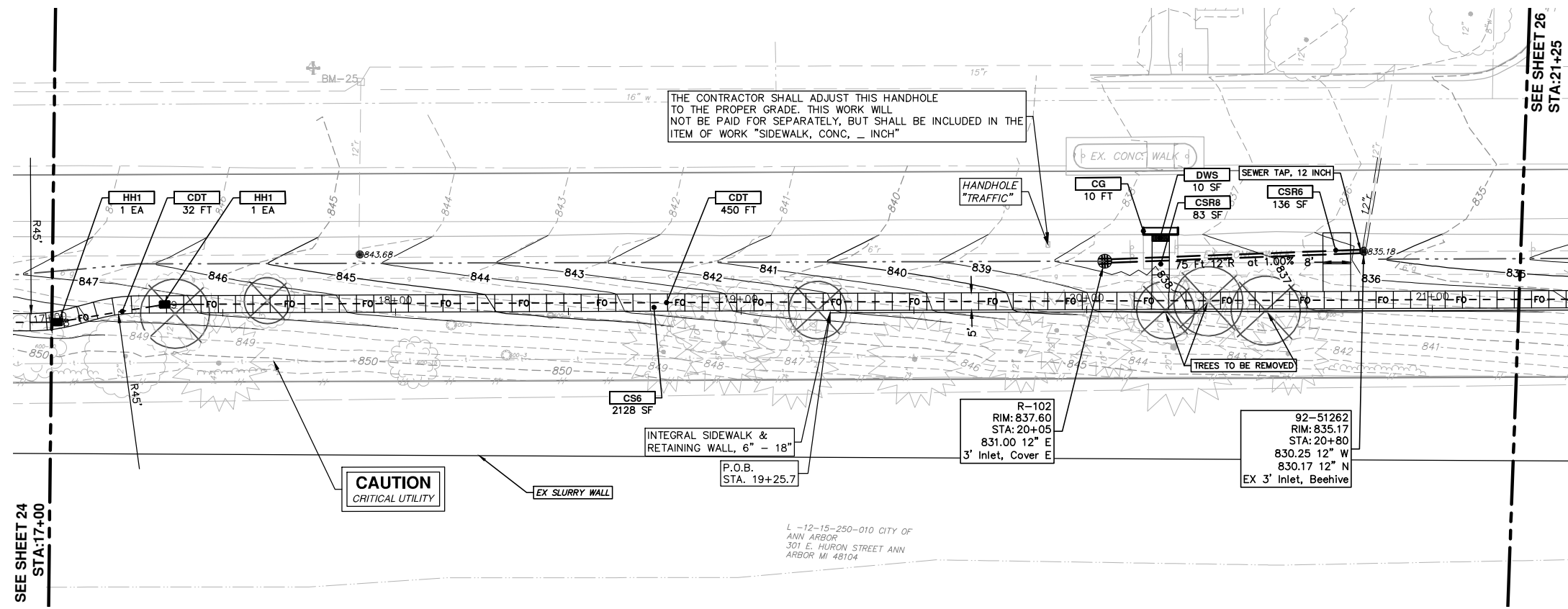
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01	OUT FOR BID	4-15-16	CEC/DFP	DAD
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

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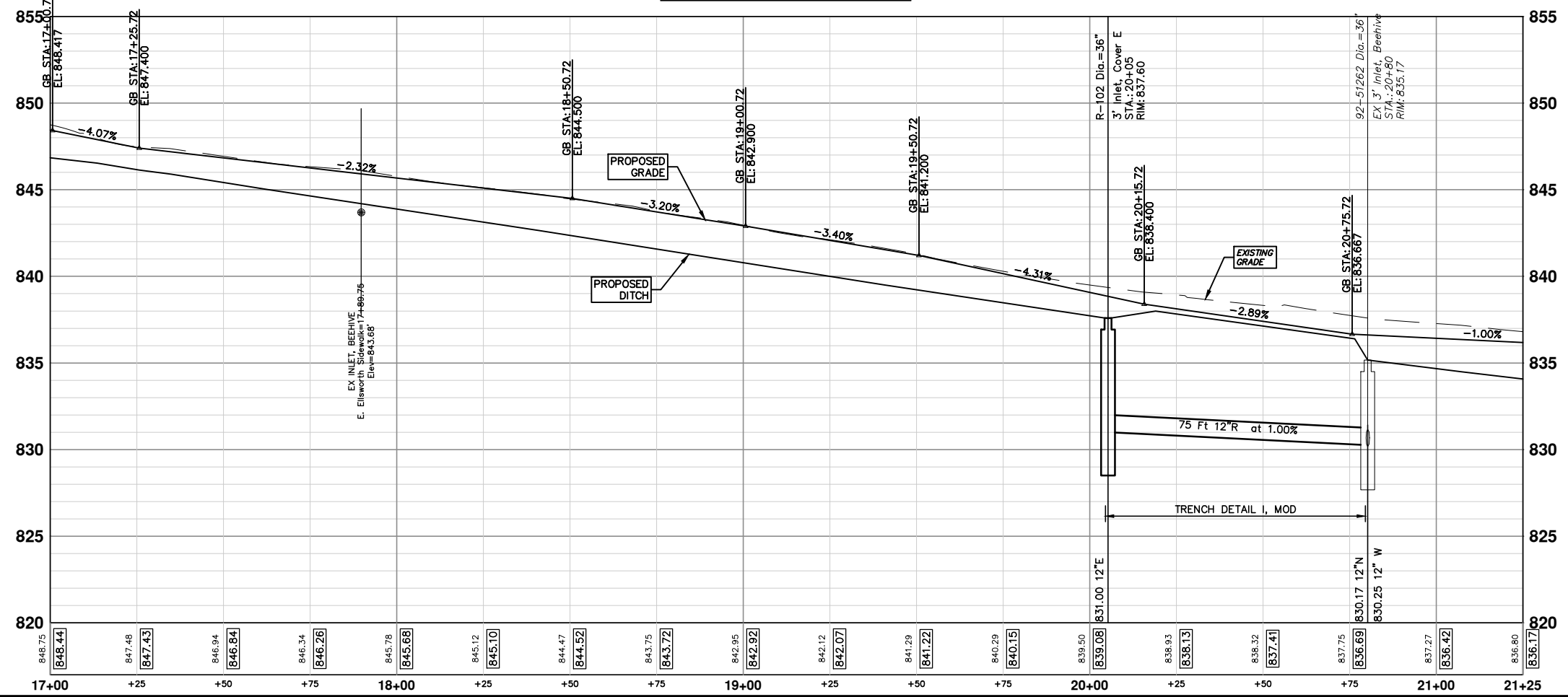
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**E. ELLSWORTH SIDEWALK**



CONSTRUCTION KEY	
KEY	DESCRIPTION
CS4	PLACE SIDEWALK, CONC, 4 INCH, SPECIAL
CS6	PLACE SIDEWALK, CONC, 6 INCH, SPECIAL
CS8	PLACE SIDEWALK, CONC, 8 INCH, SPECIAL
CSR8	PLACE SIDEWALK RAMP, CONC, 8 INCH, ADA, MOD
DH	PLACE 4" HMA DRIVE OR WALK
ABO	ADJUST BY OTHERS
DWS	DETECTABLE WARNING SURFACE, MODIFIED
CDT	CONDUIT, DB, 2, 3 INCH
HH1	HANDHOLE ASSEMBLY, 12 INCH X 18 INCH
HH2	HANDHOLE ASSEMBLY, 17 INCH X 30 INCH

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**WHEELER CENTER SIDEWALK - PHASE 1**  
 ELLSWORTH ROAD SIDEWALK PLAN AND PROFILE  
 STA. 17+00 - STA. 21+25

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

DRAWING No.  
**2014031-25**

SHEET No.  
**25 OF 41**

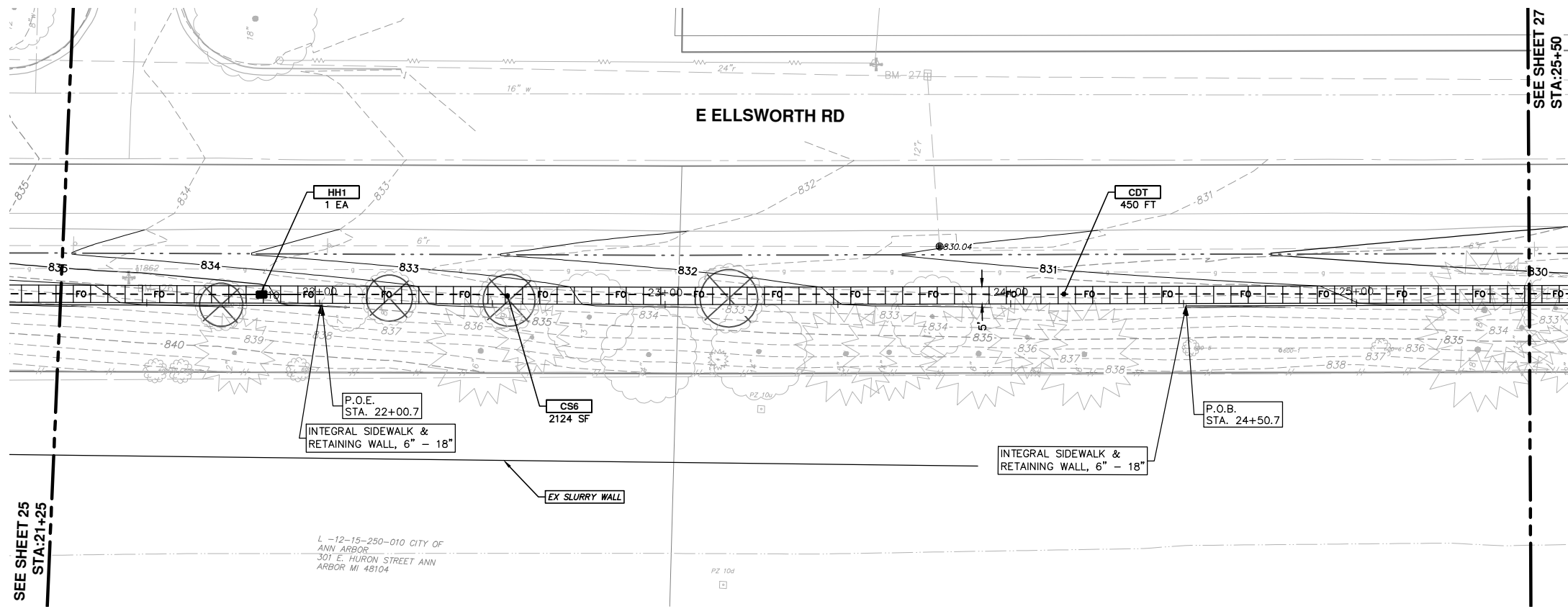
**811**  
 Know what's below.  
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	OUT FOR BID	4-15-16	CEC/DFP	DAD
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

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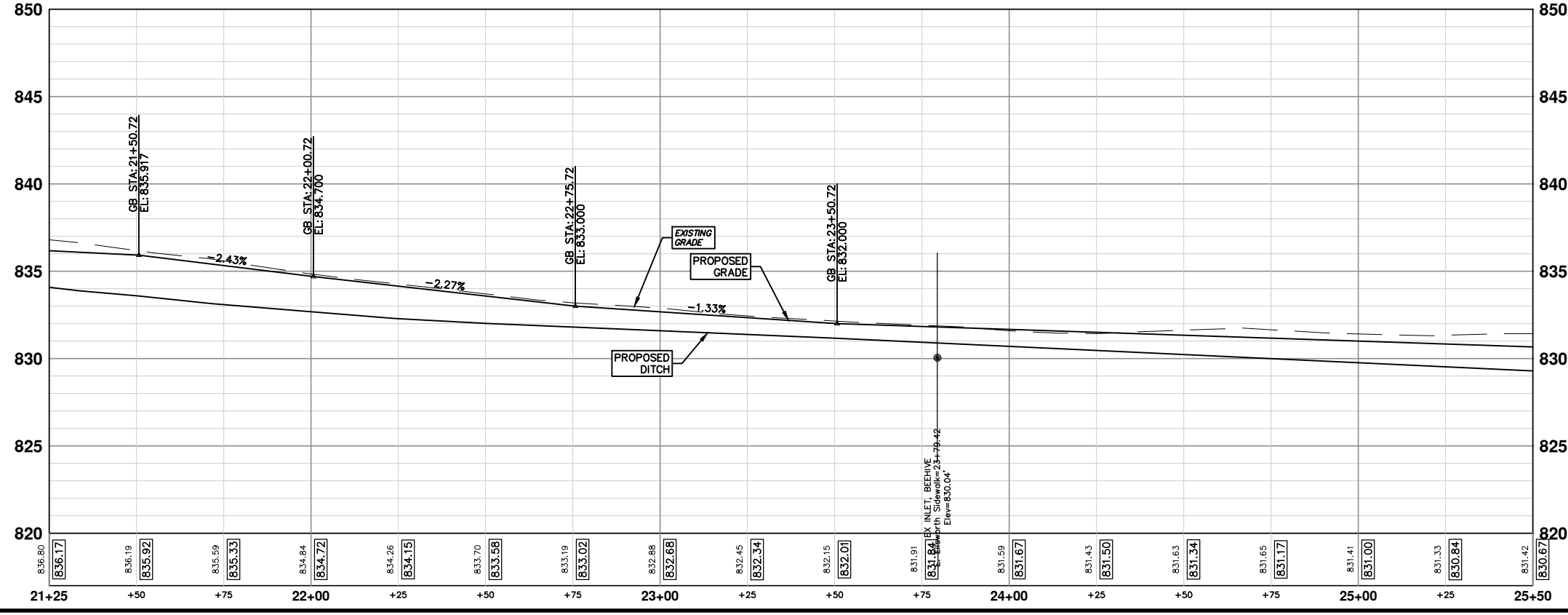
**ANN ARBOR MICHIGAN**

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CONSTRUCTION KEY	
KEY	DESCRIPTION
CS4	PLACE SIDEWALK, CONC, 4 INCH, SPECIAL
CS6	PLACE SIDEWALK, CONC, 6 INCH, SPECIAL
CS8	PLACE SIDEWALK, CONC, 8 INCH, SPECIAL
CS8R	PLACE SIDEWALK RAMP, CONC, 8 INCH, ADA, MOD
DH	PLACE 4" HMA DRIVE OR WALK
ABO	ADJUST BY OTHERS
DWS	DETECTABLE WARNING SURFACE, MODIFIED
CDT	CONDUIT, DB, 2, 3 INCH
HH1	HANDHOLE ASSEMBLY, 12 INCH X 18 INCH
HH2	HANDHOLE ASSEMBLY, 17 INCH X 30 INCH

**E. ELLSWORTH SIDEWALK**



**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
 WHEELER CENTER SIDEWALK - PHASE 1  
 ELLSWORTH ROAD SIDEWALK PLAN AND PROFILE  
 STA. 21+25 - STA. 25+50

SHEET No. **26 OF 41**

**811**  
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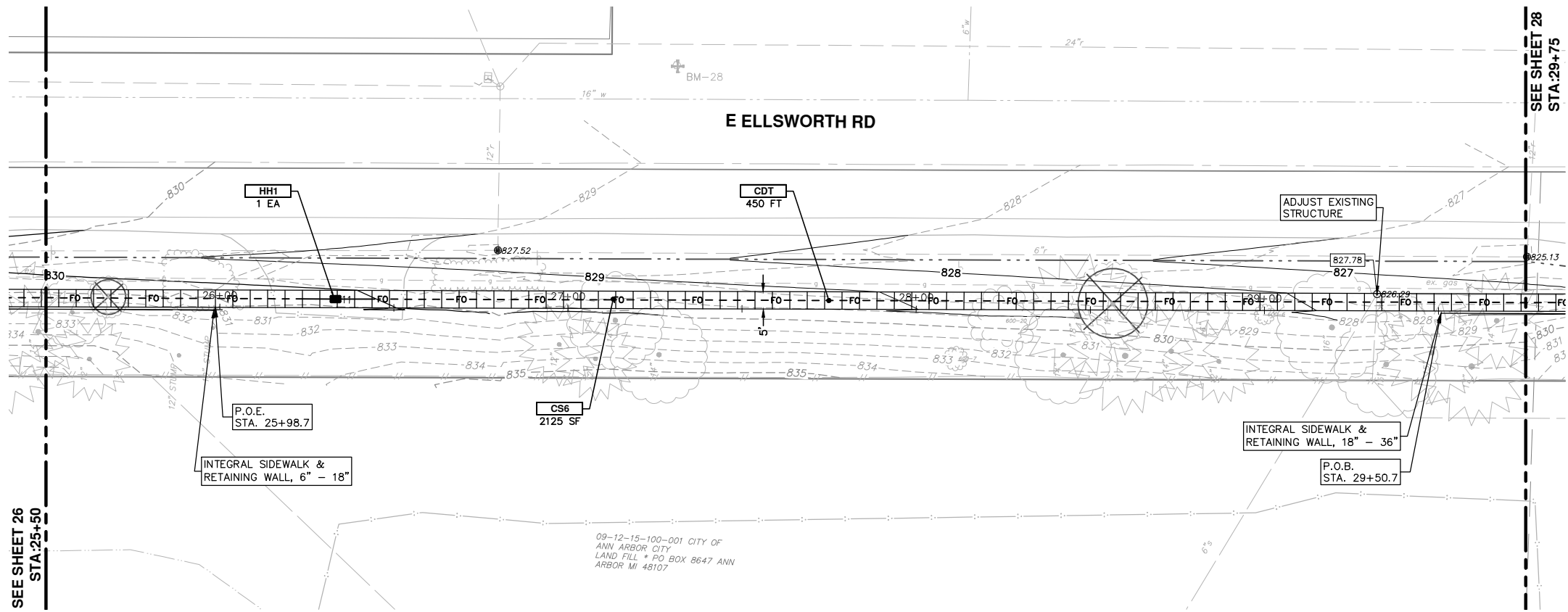
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 ANN ARBOR, MI 48106-0001  
 734.764.4410  
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SCALE PLAN: 1" = 20'  
 PROFILE: 1" = 4'

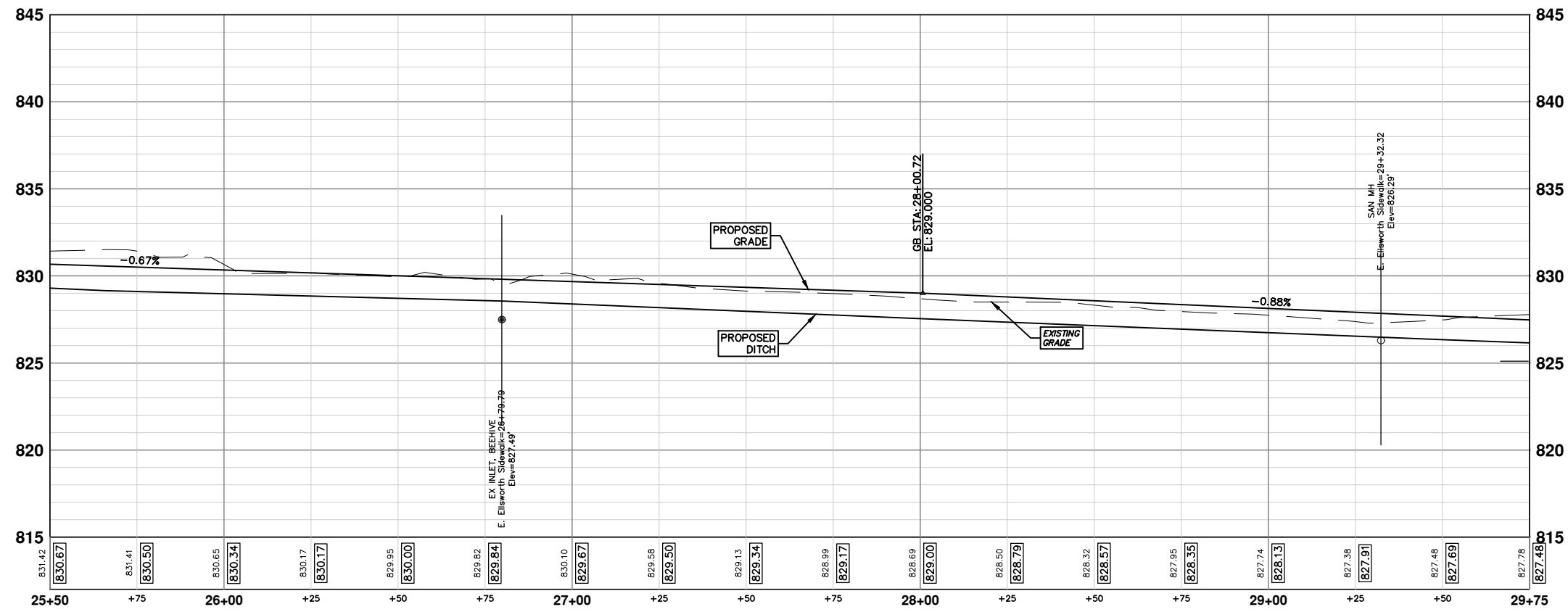
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00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

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**E. ELLSWORTH SIDEWALK**



CONSTRUCTION KEY	
KEY	DESCRIPTION
CS4	PLACE SIDEWALK, CONC, 4 INCH, SPECIAL
CS6	PLACE SIDEWALK, CONC, 6 INCH, SPECIAL
CS8	PLACE SIDEWALK, CONC, 8 INCH, SPECIAL
CSR8	PLACE SIDEWALK RAMP, CONC, 8 INCH, ADA, MOD
DH	PLACE 4" HMA DRIVE OR WALK
ABO	ADJUST BY OTHERS
DWS	DETECTABLE WARNING SURFACE, MODIFIED
CDT	CONDUIT, DB, 2, 3 INCH
HH1	HANDHOLE ASSEMBLY, 12 INCH X 18 INCH
HH2	HANDHOLE ASSEMBLY, 17 INCH X 30 INCH



**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**WHEELER CENTER SIDEWALK - PHASE 1**  
 ELLSWORTH ROAD SIDEWALK PLAN AND PROFILE

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

DRAWING NO. 2014031-27

SHEET NO. 27 OF 41

STA. 25+50 - STA. 29+75

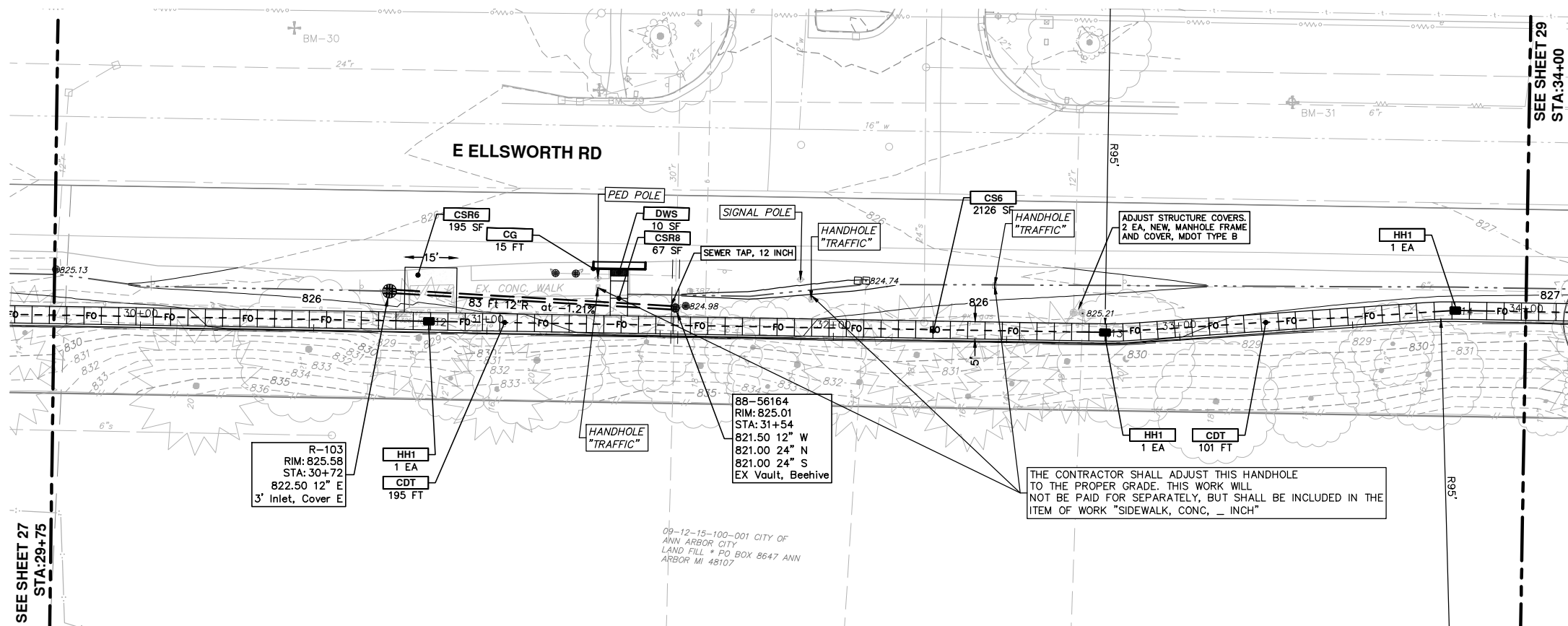
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ANN ARBOR MICHIGAN

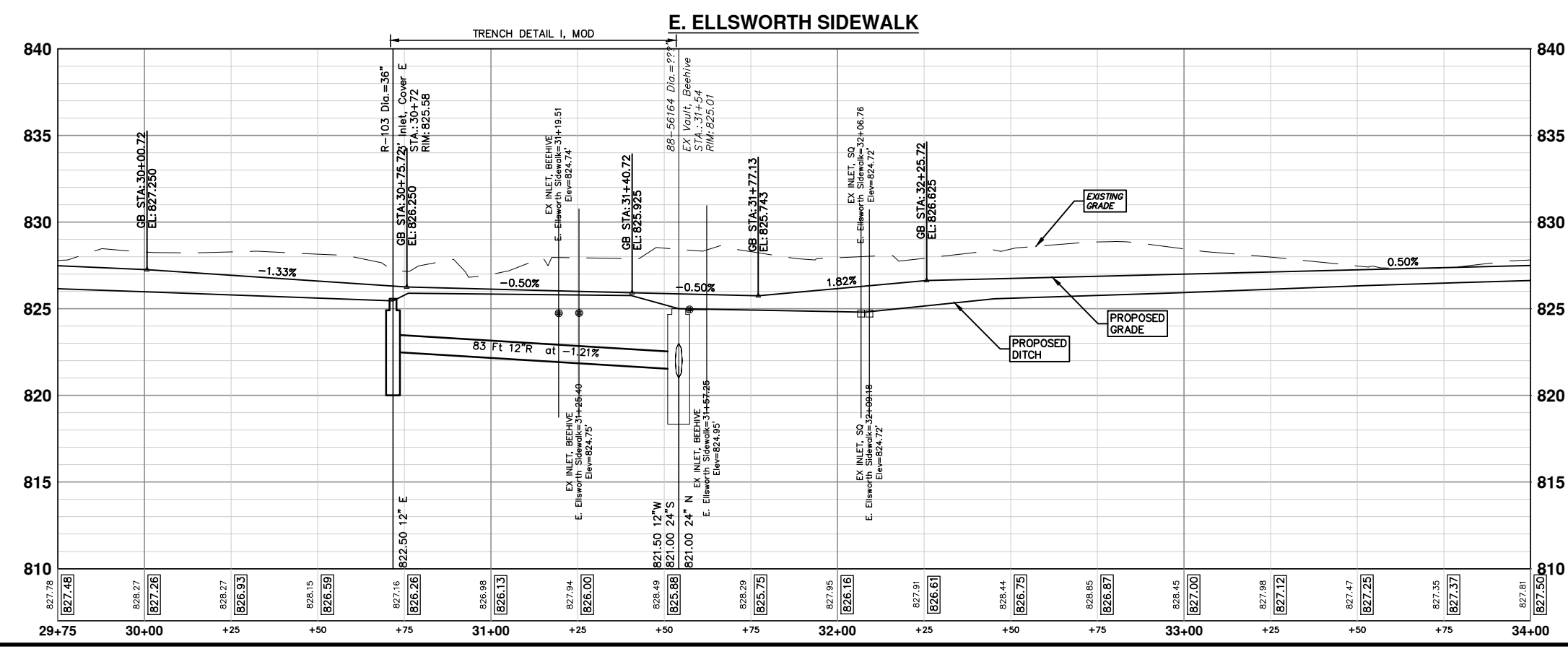
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	OUT FOR BID	4-15-16	CEC/DFP	DAD
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD


811  
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CONSTRUCTION KEY	
KEY	DESCRIPTION
CS4	PLACE SIDEWALK, CONC, 4 INCH, SPECIAL
CS6	PLACE SIDEWALK, CONC, 6 INCH, SPECIAL
CS8	PLACE SIDEWALK, CONC, 8 INCH, SPECIAL
CSR8	PLACE SIDEWALK RAMP, CONC, 8 INCH, ADA, MOD
DH	PLACE 4" HMA DRIVE OR WALK
ABO	ADJUST BY OTHERS
DWS	DETECTABLE WARNING SURFACE, MODIFIED
CDT	CONDUIT, DB, 2, 3 INCH
HH1	HANDHOLE ASSEMBLY, 12 INCH X 18 INCH
HH2	HANDHOLE ASSEMBLY, 17 INCH X 30 INCH





Know what's below.  
Call Before you dig.

REV.	DATE	DESCRIPTION
01	4-15-16	OUT FOR BID
00	10-22-15	PATH - PER PITTSFIELD TWP COMMENTS

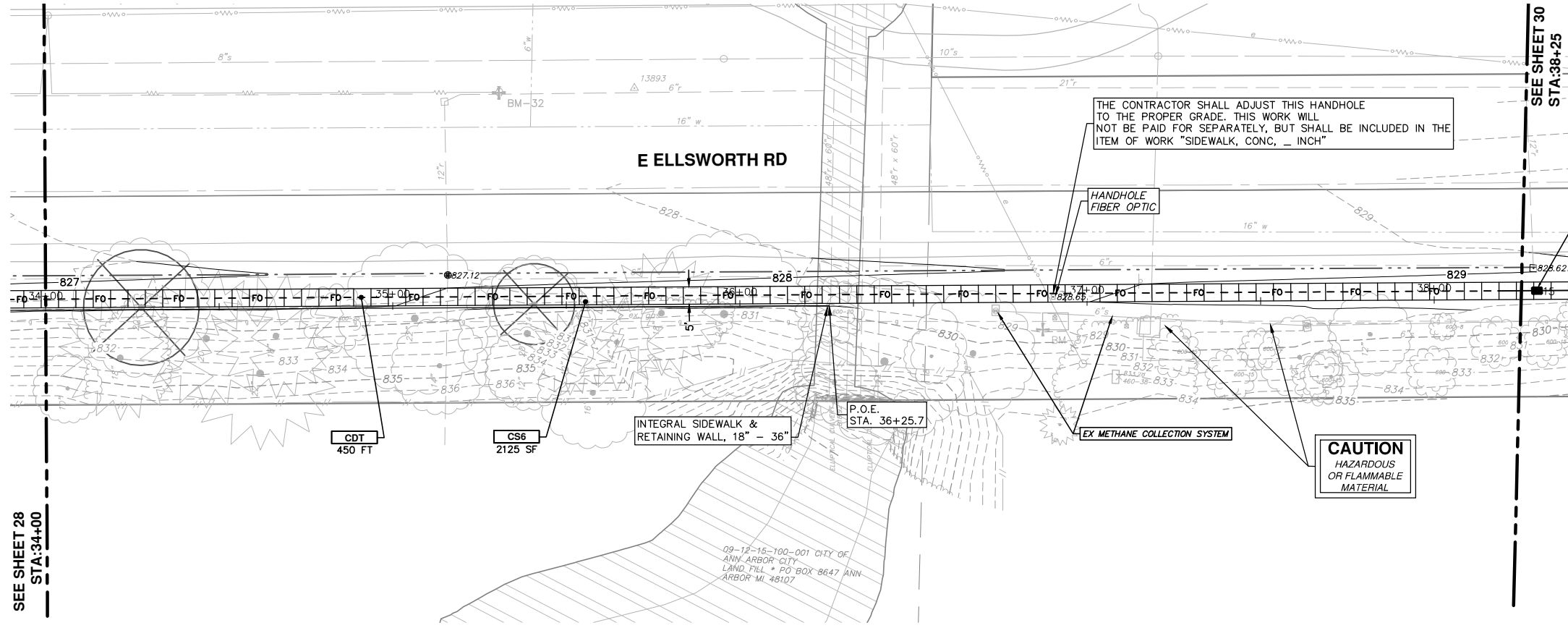


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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
WHEELER CENTER SIDEWALK - PHASE 1  
ELLSWORTH ROAD SIDEWALK PLAN AND PROFILE  
STA. 29+75 - STA. 34+00

SHEET No. **28 OF 41**

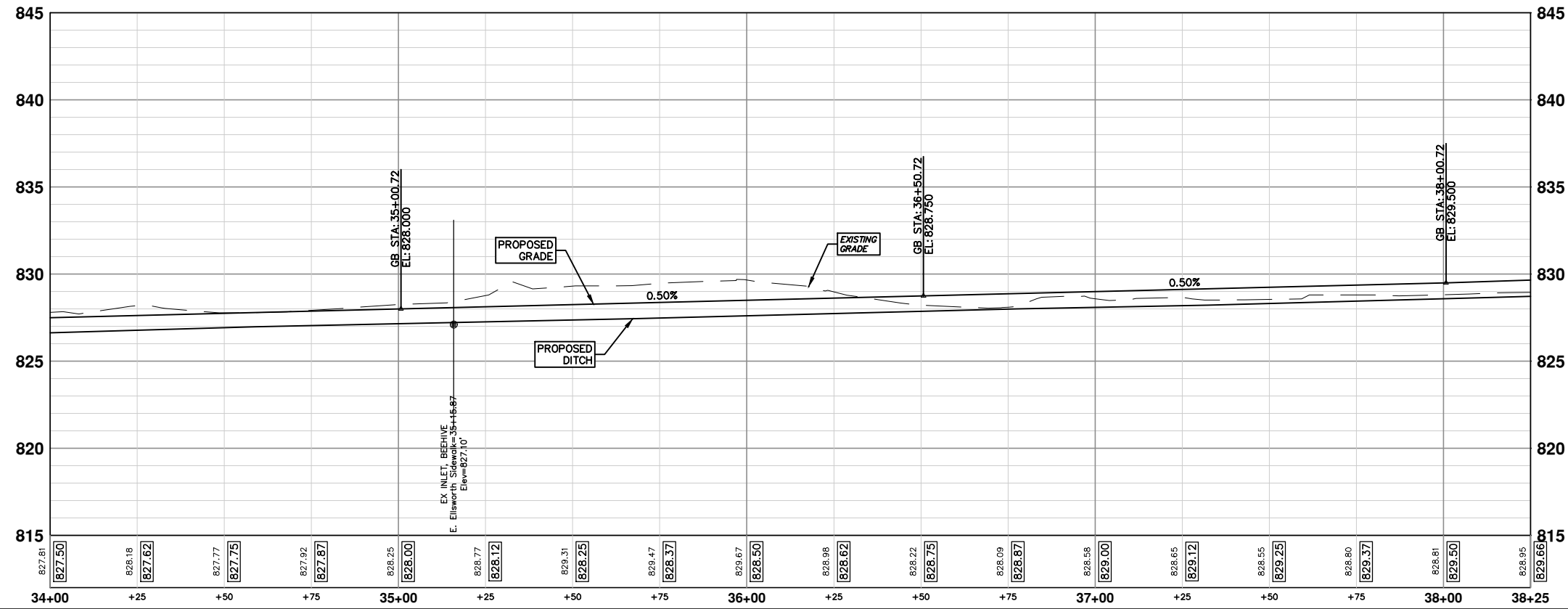
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SEE SHEET 28  
STA:34+00

SEE SHEET 30  
STA:38+25

**E. ELLSWORTH SIDEWALK**



CONSTRUCTION KEY	
KEY	DESCRIPTION
CS4	PLACE SIDEWALK, CONC, 4 INCH, SPECIAL
CS6	PLACE SIDEWALK, CONC, 6 INCH, SPECIAL
CS8	PLACE SIDEWALK, CONC, 8 INCH, SPECIAL
CSR8	PLACE SIDEWALK RAMP, CONC, 8 INCH, ADA, MOD
DH	PLACE 4" HMA DRIVE OR WALK
ABO	ADJUST BY OTHERS
DWS	DETECTABLE WARNING SURFACE, MODIFIED
CDT	CONDUIT, DB, 2, 3 INCH
HH1	HANDHOLE ASSEMBLY, 12 INCH X 18 INCH
HH2	HANDHOLE ASSEMBLY, 17 INCH X 30 INCH

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
WHEELER CENTER SIDEWALK - PHASE 1  
ELLSWORTH ROAD SIDEWALK PLAN AND PROFILE

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

DRAWING NO.  
**2014031-29**

SHEET NO.  
**29 OF 41**

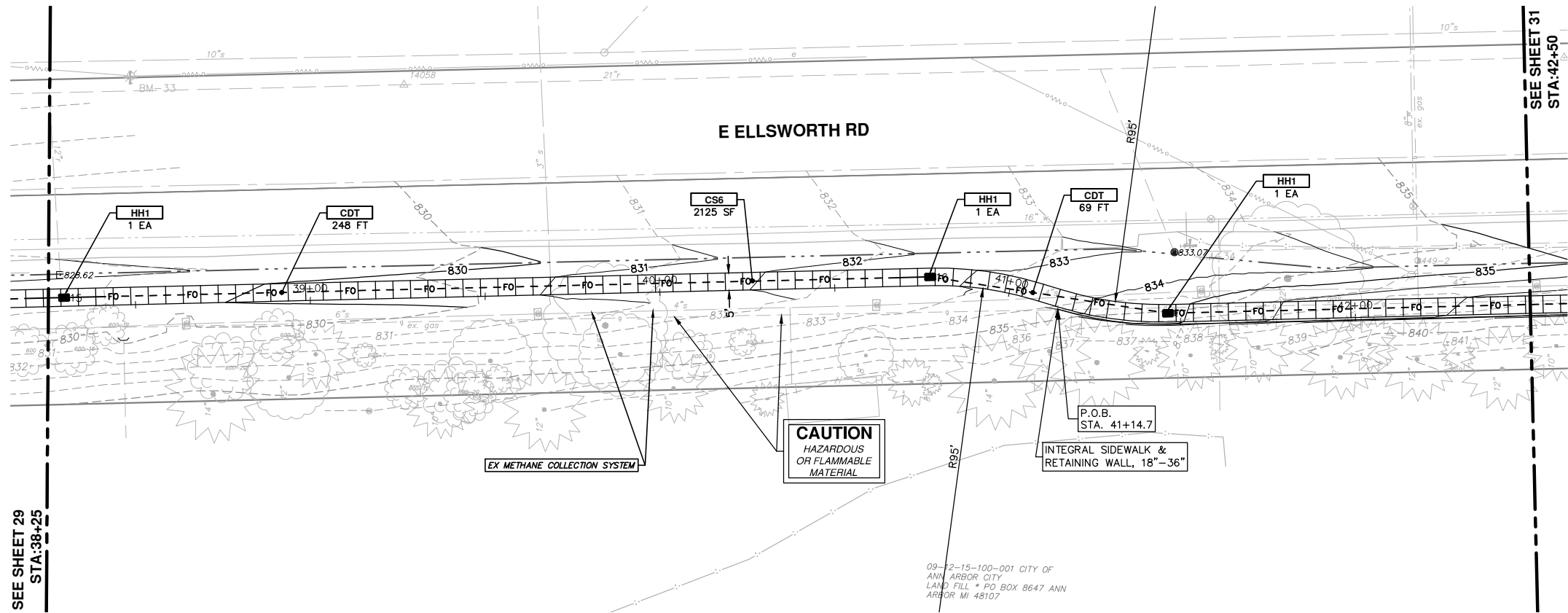
STA. 34+00 - STA. 38+25

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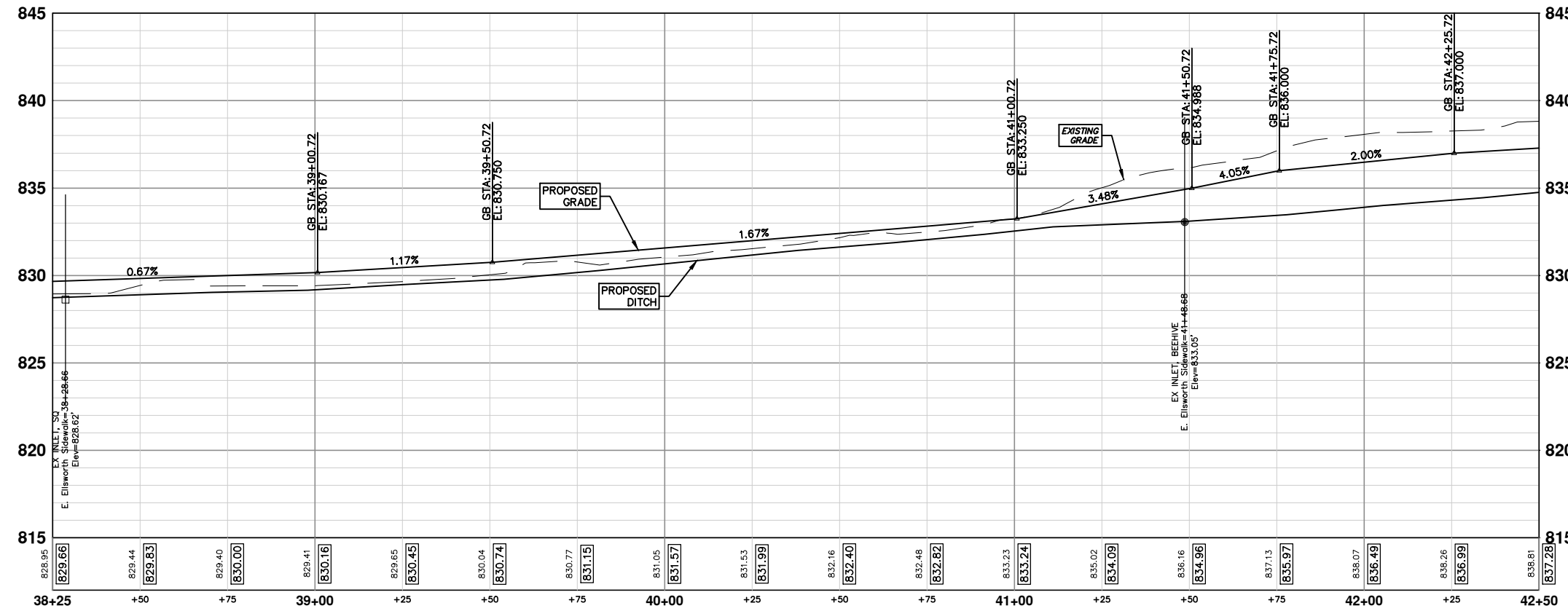
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00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD	CHECKED
	DESCRIPTION	DATE	DRAWN		

**811**  
Know what's below.  
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**E. ELLSWORTH SIDEWALK**




CONSTRUCTION KEY	
KEY	DESCRIPTION
CS4	PLACE SIDEWALK, CONC, 4 INCH, SPECIAL
CS6	PLACE SIDEWALK, CONC, 6 INCH, SPECIAL
CS8	PLACE SIDEWALK, CONC, 8 INCH, SPECIAL
CS8R	PLACE SIDEWALK RAMP, CONC, 8 INCH, ADA, MOD
DH	PLACE 4" HMA DRIVE OR WALK
ABO	ADJUST BY OTHERS
DWS	DETECTABLE WARNING SURFACE, MODIFIED
CDT	CONDUIT, DB, 2, 3 INCH
HH1	HANDHOLE ASSEMBLY, 12 INCH X 18 INCH
HH2	HANDHOLE ASSEMBLY, 17 INCH X 30 INCH

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
 WHEELER CENTER SIDEWALK - PHASE 1  
 ELLSWORTH ROAD SIDEWALK PLAN AND PROFILE  
 STA. 38+25 - STA. 42+50

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

DRAWING No.  
**2014031-30**

SHEET No.  
**30 OF 41**

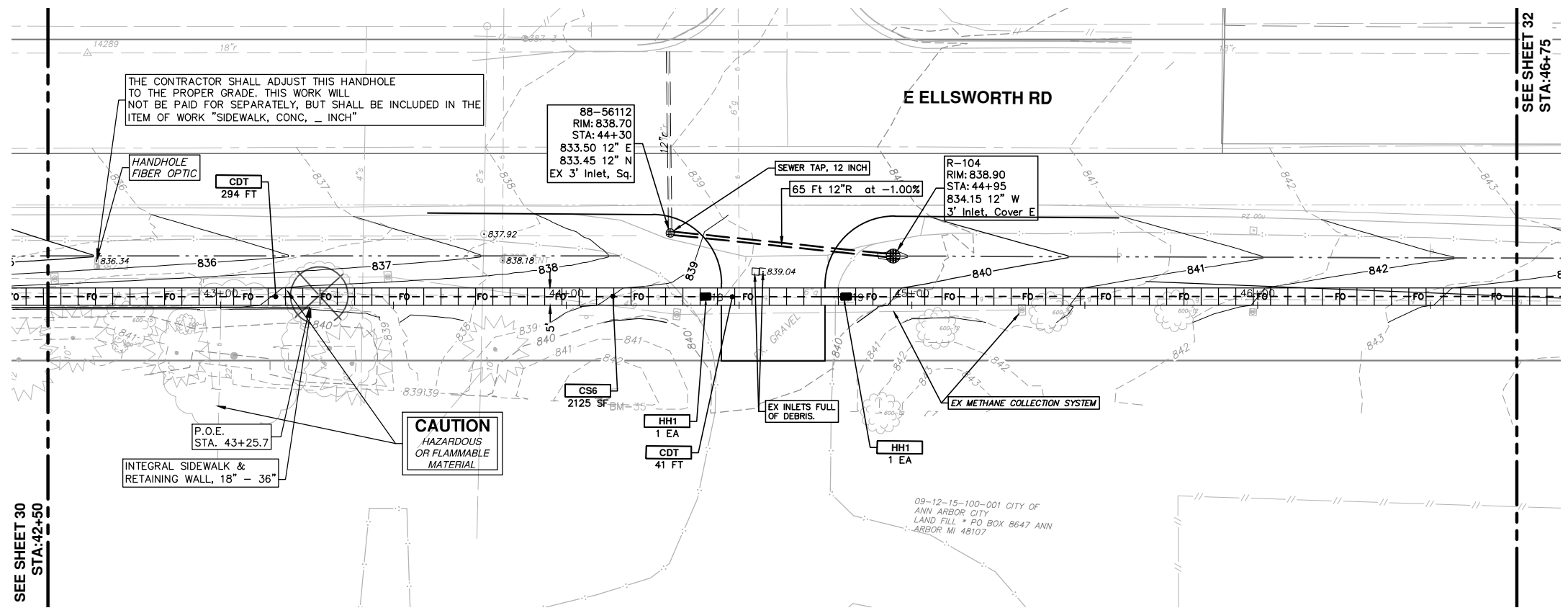


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 ANN ARBOR, MI 48106-0001  
 ANN ARBOR BOX 8647  
 ANN ARBOR, MI 48107-8647  
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	OUT FOR BID	4-15-16	CEC/DFP	DAD
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

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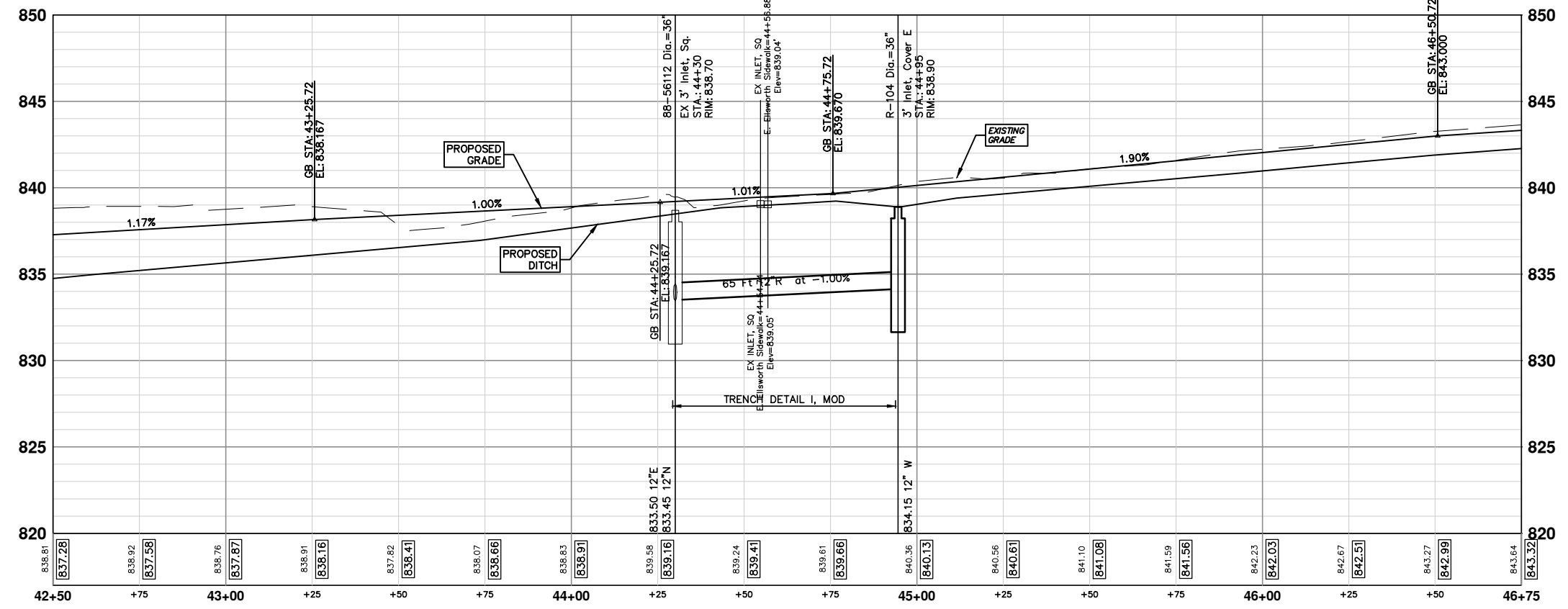
SEE SHEET 30  
STA: 42+50

SEE SHEET 32  
STA: 46+75



**E ELLSWORTH RD**

**E. ELLSWORTH SIDEWALK**



CONSTRUCTION KEY	
KEY	DESCRIPTION
CS4	PLACE SIDEWALK, CONC, 4 INCH, SPECIAL
CS6	PLACE SIDEWALK, CONC, 6 INCH, SPECIAL
CS8	PLACE SIDEWALK, CONC, 8 INCH, SPECIAL
CSR8	PLACE SIDEWALK RAMP, CONC, 8 INCH, ADA, MOD
DH	PLACE 4" HMA DRIVE OR WALK
ABO	ADJUST BY OTHERS
DWS	DETECTABLE WARNING SURFACE, MODIFIED
CDT	CONDUIT, DB, 2, 3 INCH
HH1	HANDHOLE ASSEMBLY, 12 INCH X 18 INCH
HH2	HANDHOLE ASSEMBLY, 17 INCH X 30 INCH

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
WHEELER CENTER SIDEWALK - PHASE 1  
ELLSWORTH ROAD SIDEWALK PLAN AND PROFILE

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

DRAWING No. 2014031-31

SHEET No. 31 OF 41

STA. 42+50 - STA. 46+75

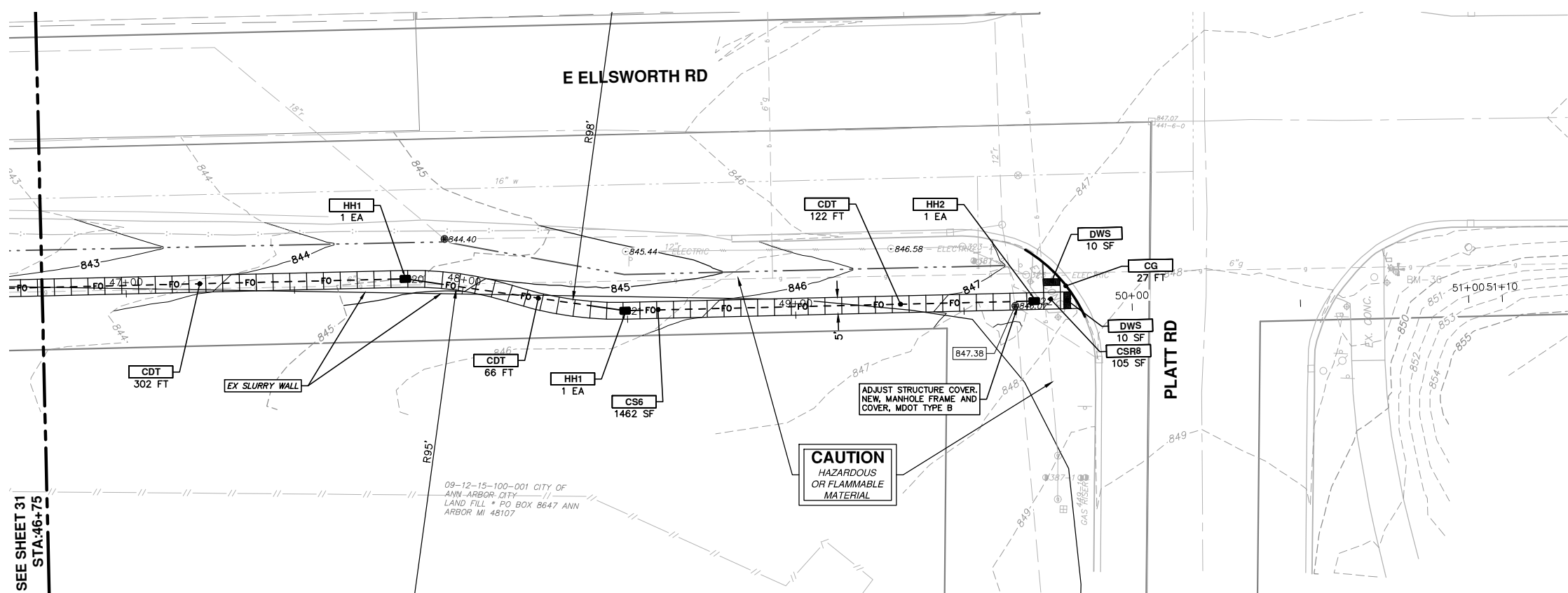
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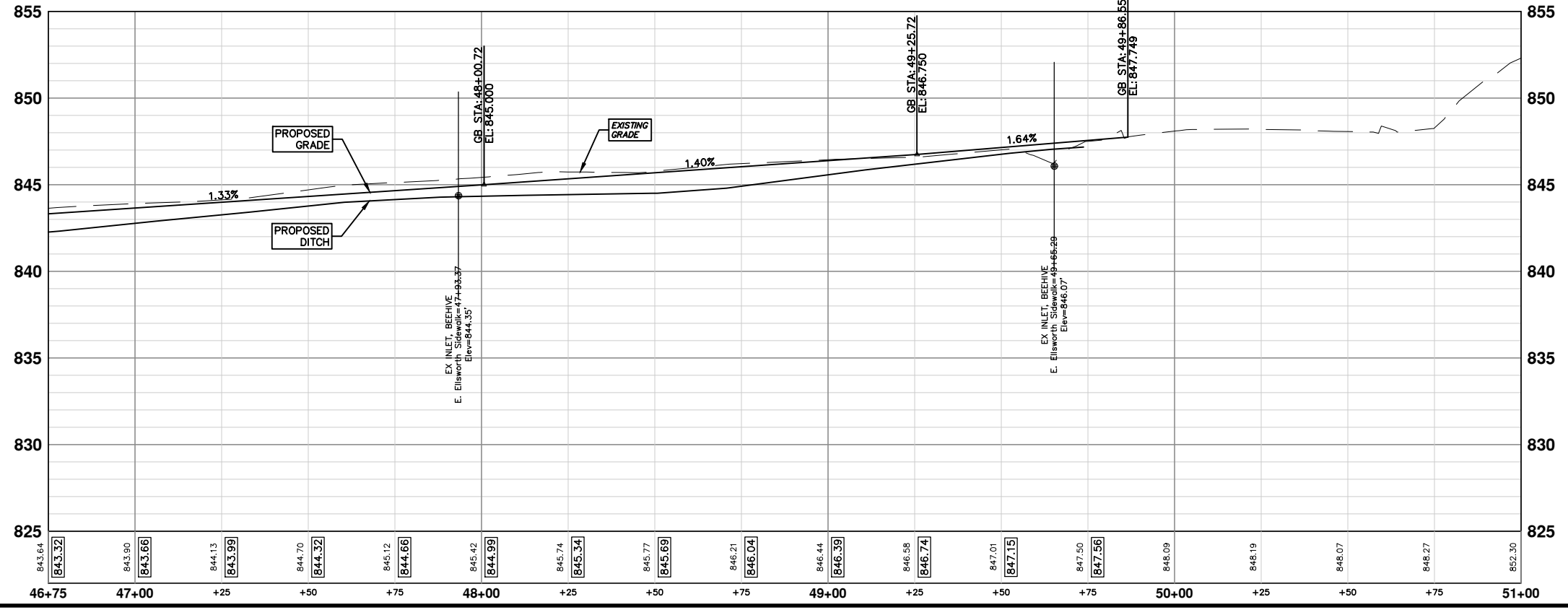
REV.	DATE	DESCRIPTION
01	4-15-16	OUT FOR BID
00	10-22-15	PATH - PER PITTSFIELD TWP COMMENTS

REV.	DATE	DRAWN	CHECKED
		CEC/DFP	DAD

Know what's below. Call Before you dig.



**E. ELLSWORTH SIDEWALK**



CONSTRUCTION KEY	
KEY	DESCRIPTION
CS4	PLACE SIDEWALK, CONC, 4 INCH, SPECIAL
CS6	PLACE SIDEWALK, CONC, 6 INCH, SPECIAL
CS8	PLACE SIDEWALK, CONC, 8 INCH, SPECIAL
CSR8	PLACE SIDEWALK RAMP, CONC, 8 INCH, ADA, MOD
DH	PLACE 4" HMA DRIVE OR WALK
ABO	ADJUST BY OTHERS
DWS	DETECTABLE WARNING SURFACE, MODIFIED
CDT	CONDUIT, DB, 2, 3 INCH
HH1	HANDHOLE ASSEMBLY, 12 INCH X 18 INCH
HH2	HANDHOLE ASSEMBLY, 17 INCH X 30 INCH

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
 WHEELER CENTER SIDEWALK - PHASE 1  
 ELLSWORTH ROAD SIDEWALK PLAN AND PROFILE  
 STA. 46+75 - POE

SHEET No. **32 OF 41**

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

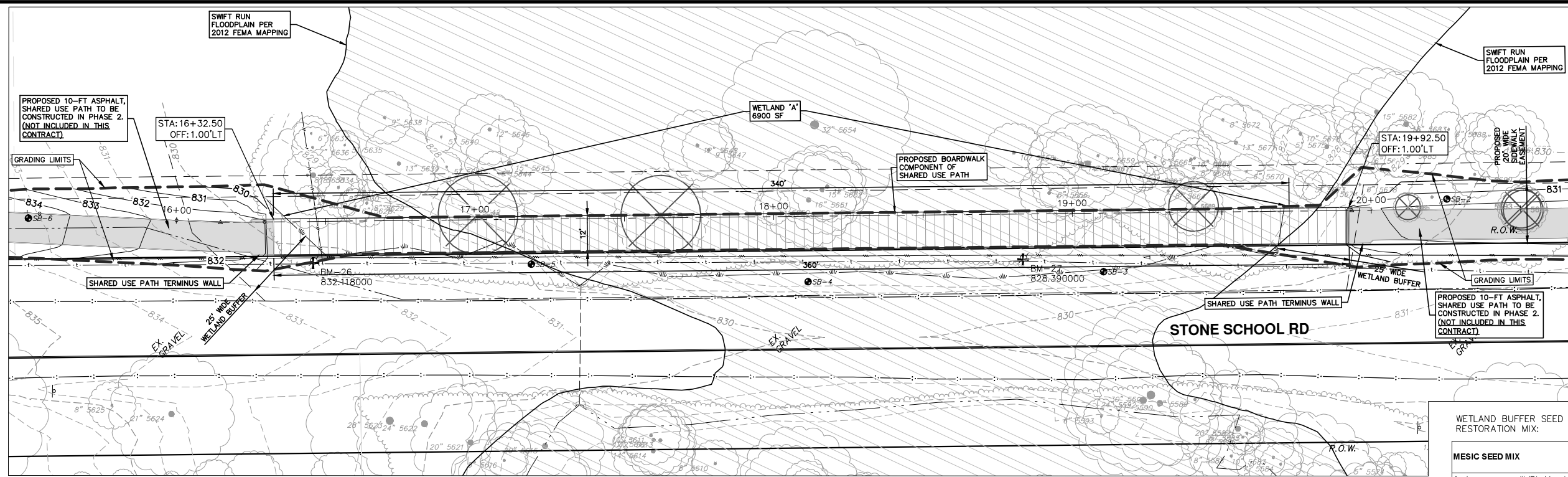
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	OUT FOR BID	4-15-16	CEC/DFP	DAD
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD



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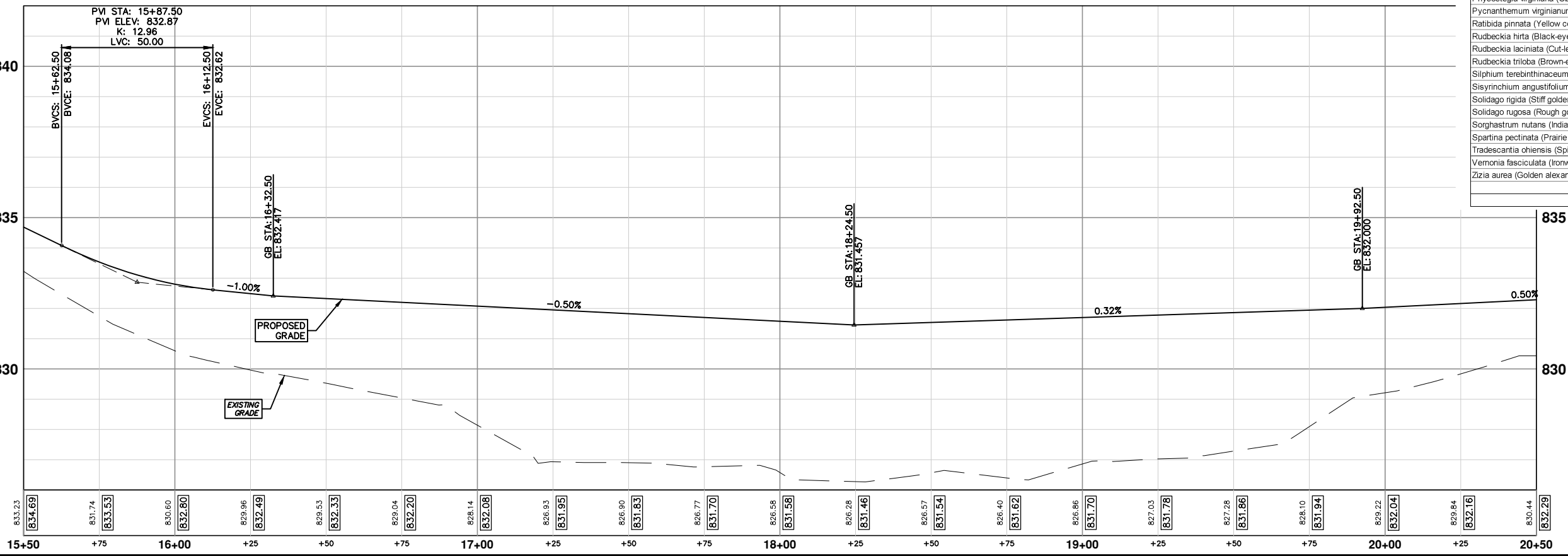



CONSTRUCTION KEY	
KEY	DESCRIPTION
CS4	PLACE SIDEWALK, CONC, 4 INCH, SPECIAL
CS6	PLACE SIDEWALK, CONC, 6 INCH, SPECIAL
CS8	PLACE SIDEWALK, CONC, 8 INCH, SPECIAL
CSR8	PLACE SIDEWALK RAMP, CONC, 8 INCH, ADA, MOD
DH	PLACE 4" HMA DRIVE OR WALK
ABO	ADJUST BY OTHERS
DWS	DETECTABLE WARNING SURFACE, MODIFIED
CDT	CONDUIT, DB, 2, 3 INCH
HH1	HANDHOLE ASSEMBLY, 12 INCH X 18 INCH
HH2	HANDHOLE ASSEMBLY, 17 INCH X 30 INCH

WETLAND BUFFER SEED RESTORATION MIX:

MESIC SEED MIX	Indicator Status	Proportion by Weight	PLS Lbs./acre
Andropogon gerardii (Big bluestem)	FAC-	22.4%	3.00
Anemone canadensis (Thimbleweed)	FACW	0.7%	0.10
Aster ericoides (Heath aster)	FACU	0.9%	0.13
Aster nova-angiae (New England aster)	FACW	0.6%	0.08
Baptisia leucantha (Wild white indigo)	FACU+	0.7%	0.09
Coreopsis tripteris (Tall coreopsis)	FAC	0.6%	0.08
Desmodium canadense (Showy tick-trefoil)	FAC-	0.4%	0.06
Elymus canadensis (Canada wild rye)	FAC-	14.9%	2.00
Elymus villosus (Silky wild rye)	FACU	14.9%	2.00
Elymus virginicus (Virginia wild rye)	FACW-	14.9%	2.00
Euthamia graminifolia (Grass-leaved goldenrod)	FACW-	0.1%	0.01
Helianthus autumnale (Sneezeweed)	FACW+	0.6%	0.08
Helianthus grosseserratus (Saw-tooth sunflower)	FACW-	0.9%	0.13
Liatris spicata (Dense blazing star)	FAC	1.9%	0.25
Monarda fistulosa (Wild bergamot)	FACU	0.4%	0.05
Panicum virgatum (Switch grass)	FACU+	0.9%	0.13
Parthenium integrifolium (Wild quinine)	UPL	1.1%	0.15
Physostegia virginiana (Obedient plant)	FACW-	0.4%	0.06
Pycnanthemum virginianum (Mountain mint)	FACW+	0.2%	0.03
Ratibida pinnata (Yellow coneflower)	UPL	1.3%	0.18
Rudbeckia hirta (Black-eyed Susan)	FACU	0.7%	0.10
Rudbeckia laciniata (Cut-leaved coneflower)	FACW+	0.9%	0.13
Rudbeckia triloba (Brown-eyed Susan)	FAC-	1.9%	0.25
Silphium terebinthinaceum (Prairie dock)	FACU	0.9%	0.13
Sisyrinchium angustifolium (Blue-eyed grass)	FACW-	0.1%	0.01
Solidago rigida (Stiff goldenrod)	FACU-	0.9%	0.13
Solidago rugosa (Rough goldenrod)	FAC+	1.3%	0.18
Sorghastrum nutans (Indian grass)	FACU+	0.9%	0.13
Spartina pectinata (Prairie cord grass)	FACW+	3.7%	0.50
Tradescantia chiensis (Spiderwort)	FACU+	7.5%	1.00
Vernonia fasciculata (Ironweed)	FACW	1.5%	0.20
Zizia aurea (Golden alexander)	FAC+	0.4%	0.05
<b>TOTAL:</b>		<b>100%</b>	<b>13.39</b>


### STONE SCHOOL PATH





Know what's below.  
Call before you dig.

01	OUT FOR BID	CEC/DFP	4-15-16	CEC	10-22-15	DATE	DRAWN	CHECKED	DESCRIPTION
00	PATH	PER PITTSFIELD TWP COMMENTS							REV.



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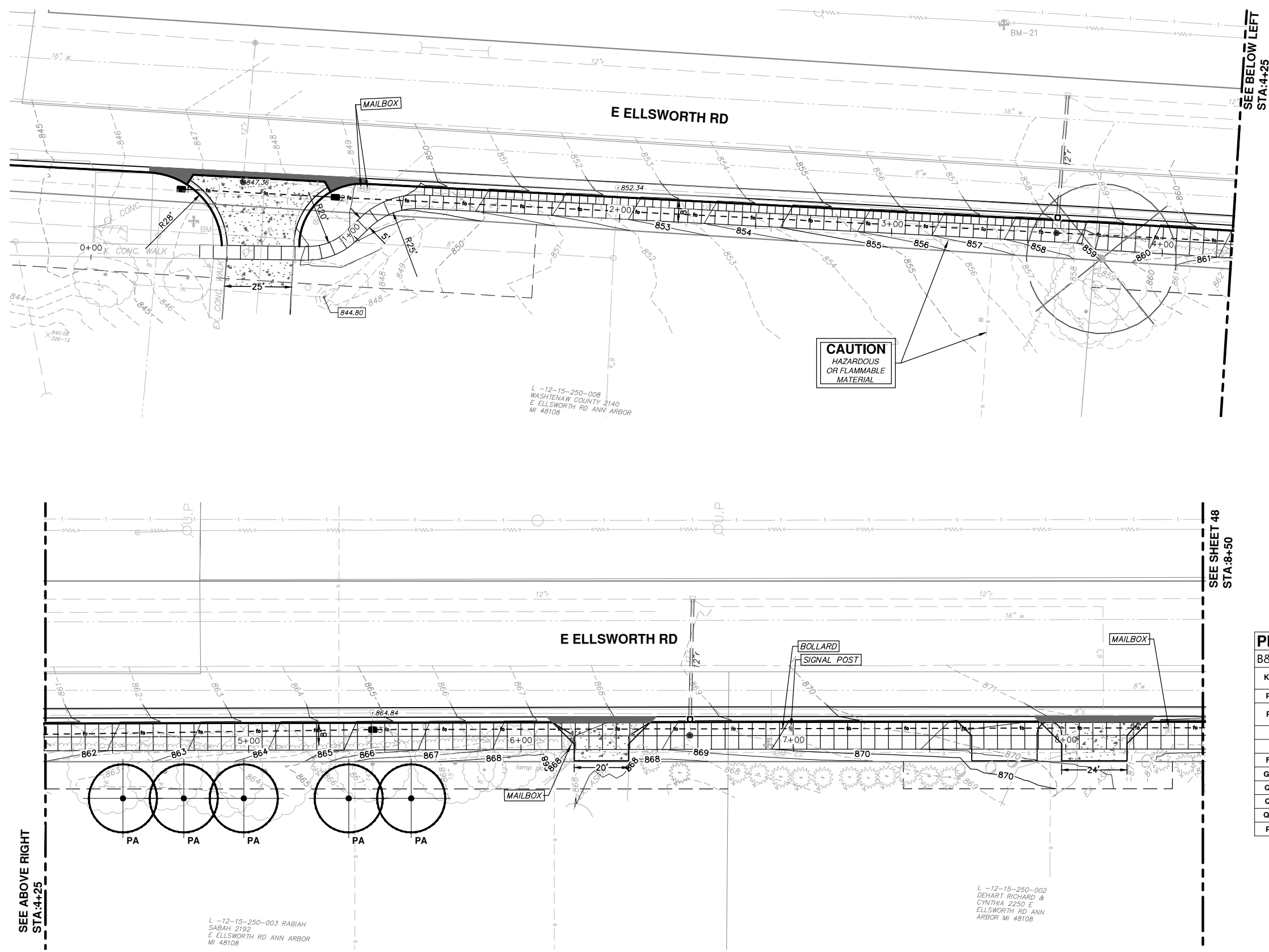
**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**WHEELER CENTER SIDEWALK - PHASE 1**  
STONE SCHOOL ROAD PATH PLAN AND PROFILE

BOARDWALK

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

DRAWING No. **2014031-33**

SHEET No. **33 OF 41**



**Plant Schedule**

B&B Trees

Key	QTY	Botanical Name	Common Name	Spacing	Form
PA	5	<i>Picea abies</i>	Norway Spruce	see plan	2 1/2" caliper B and B
PT		<i>Packsyandra Terminalis</i>	Japanese Packsyandra	6'-8" o.c.	plug
FG	4	<i>Fagus grandifolia</i>	American Beech	see plan	2 1/2" caliper B and B
GYd	2	<i>Gymnocladus dioicus</i>	Kentucky Coffee Tree	see plan	2 1/2" caliper B and B
QBI	3	<i>Quercus bicolor</i>	Swamp White Oak	see plan	2 1/2" caliper B and B
QM	2	<i>Quercus macrocarpa</i>	Bur Oak	see plan	2 1/2" caliper B and B
QRu	2	<i>Quercus rubra</i>	Red Oak	see plan	2 1/2" caliper B and B
PG	2	<i>Picea glauca</i>	White Spruce	see plan	2 1/2" caliper B and B

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
 WHEELER CENTER SIDEWALK - PHASE 1  
 ELLSWORTH ROAD TREE PLANTING

SCALE PLAN: 1" = 20'  
 DRAWING No. 2014031-34

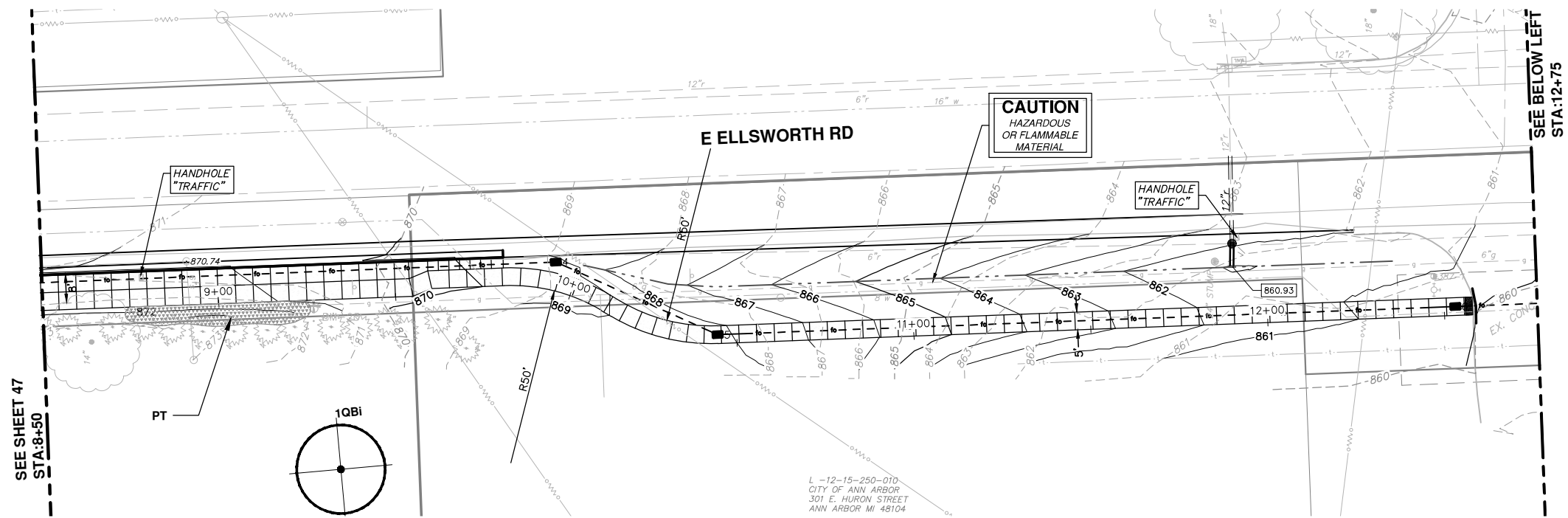
STA. 0+00 - STA. 8+50

34 OF 41

**CITY OF ANN ARBOR PUBLIC SERVICE**  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106  
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

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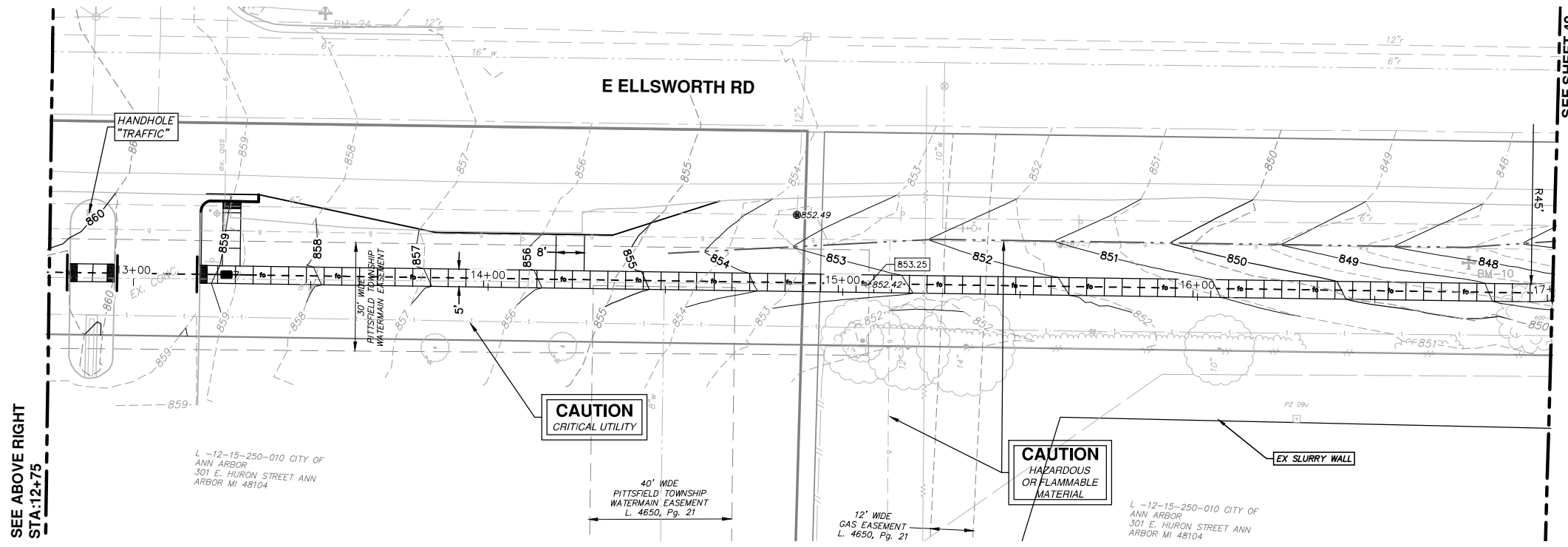
SEE SHEET 47  
STA:8+50

SEE BELOW LEFT  
STA:12+75

L-12-15-250-010 CITY OF ANN ARBOR  
301 E. HURON STREET  
ANN ARBOR MI 48104

**Plant Schedule**  
B&B Trees

Key	QTY	Botanical Name	Common Name	Spacing	Form
COc	2	Celtis occidentalis	Hackberry	see plan	2 1/2" caliper B and B
FG	4	Fagus grandifolia	American Beech	see plan	2 1/2" caliper B and B
GYd	2	Gymnocladus dioicus	Kentucky Coffee Tree	see plan	2 1/2" caliper B and B
QBi	3	Quercus bicolor	Swamp White Oak	see plan	2 1/2" caliper B and B
QM	2	Quercus macrocarpa	Bur Oak	see plan	2 1/2" caliper B and B
QRu	2	Quercus rubra	Red Oak	see plan	2 1/2" caliper B and B
PG	2	Picea glauca	White Spruce	see plan	2 1/2" caliper B and B



SEE ABOVE RIGHT  
STA:12+75

SEE SHEET 49  
STA:17+00

L-12-15-250-010 CITY OF ANN ARBOR  
301 E. HURON STREET ANN ARBOR MI 48104

L-12-15-250-010 CITY OF ANN ARBOR  
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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
WHEELER CENTER SIDEWALK - PHASE 1  
ELLSWORTH ROAD TREE PLANTING

SCALE PLAN: 1" = 20'  
DRAWING No. 2014031-35

SHEET No. 35 OF 41

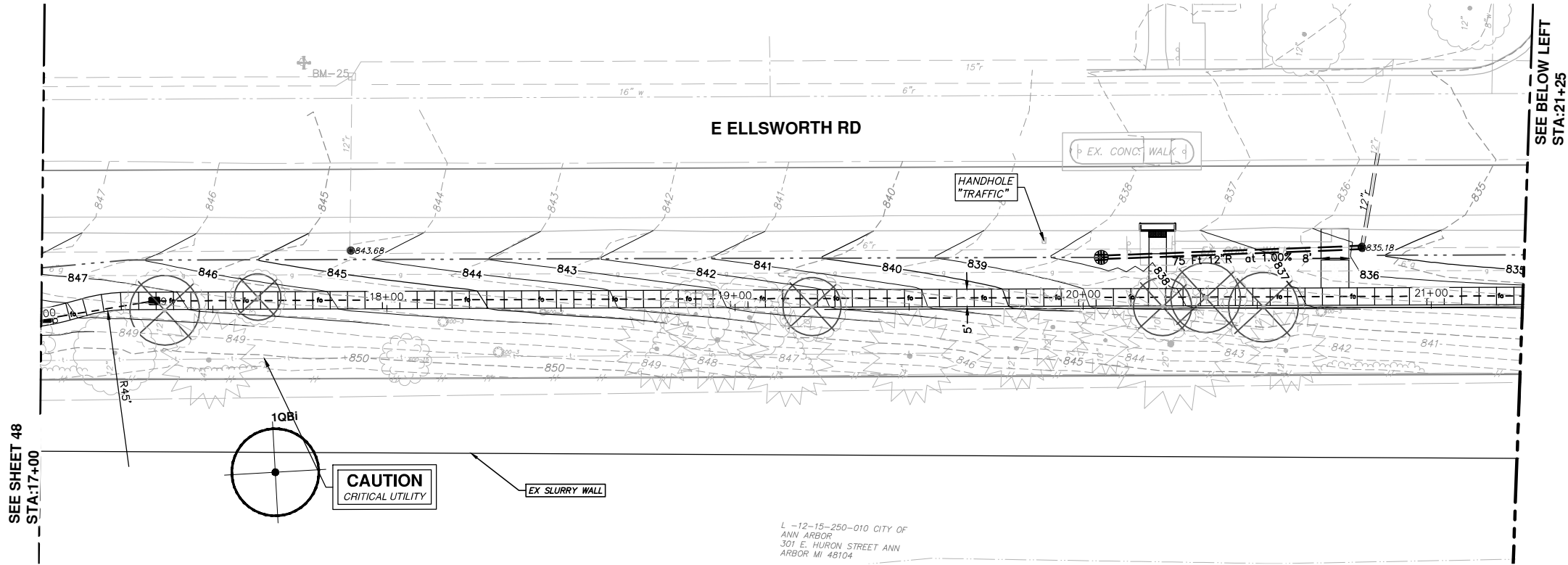
STA. 8+50 - STA. 17+00

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ANN ARBOR MICHIGAN

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

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STA:17+00

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STA:21+25

**CAUTION**  
CRITICAL UTILITY

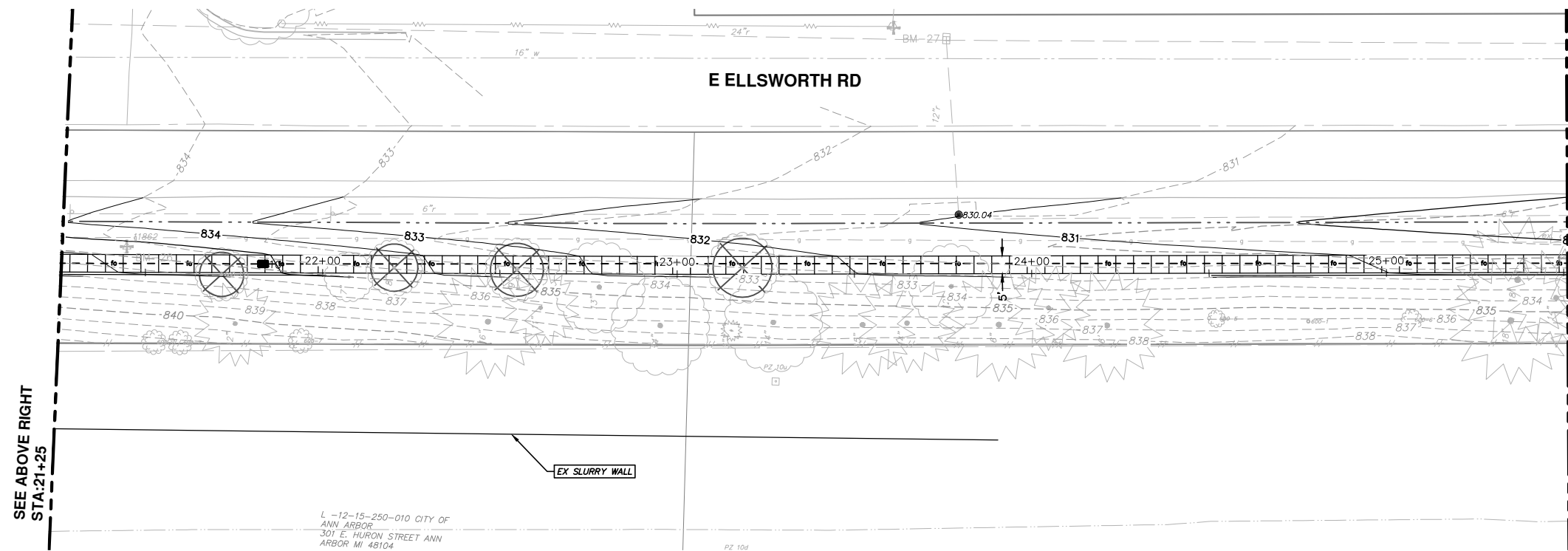
EX SLURRY WALL

L-12-15-250-010 CITY OF  
ANN ARBOR  
301 E. HURON STREET ANN  
ARBOR MI 48104

**Plant Schedule**

B&B Trees

Key	QTY	Botanical Name	Common Name	Spacing	Form
COc	2	<i>Celtis occidentalis</i>	Hackberry	see plan	2 1/2" caliper B and B
FG	4	<i>Fagus grandifolia</i>	American Beech	see plan	2 1/2" caliper B and B
GyD	2	<i>Gymnocladus dioica</i>	Kentucky Coffee Tree	see plan	2 1/2" caliper B and B
QBi	3	<i>Quercus bicolor</i>	Swamp White Oak	see plan	2 1/2" caliper B and B
QM	2	<i>Quercus macrocarpa</i>	Bur Oak	see plan	2 1/2" caliper B and B
QRu	2	<i>Quercus rubra</i>	Red Oak	see plan	2 1/2" caliper B and B
PG	2	<i>Picea glauca</i>	White Spruce	see plan	2 1/2" caliper B and B



SEE ABOVE RIGHT  
STA:21+25

SEE SHEET 50  
STA:25+50

L-12-15-250-010 CITY OF  
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ARBOR MI 48104

PZ 10d



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

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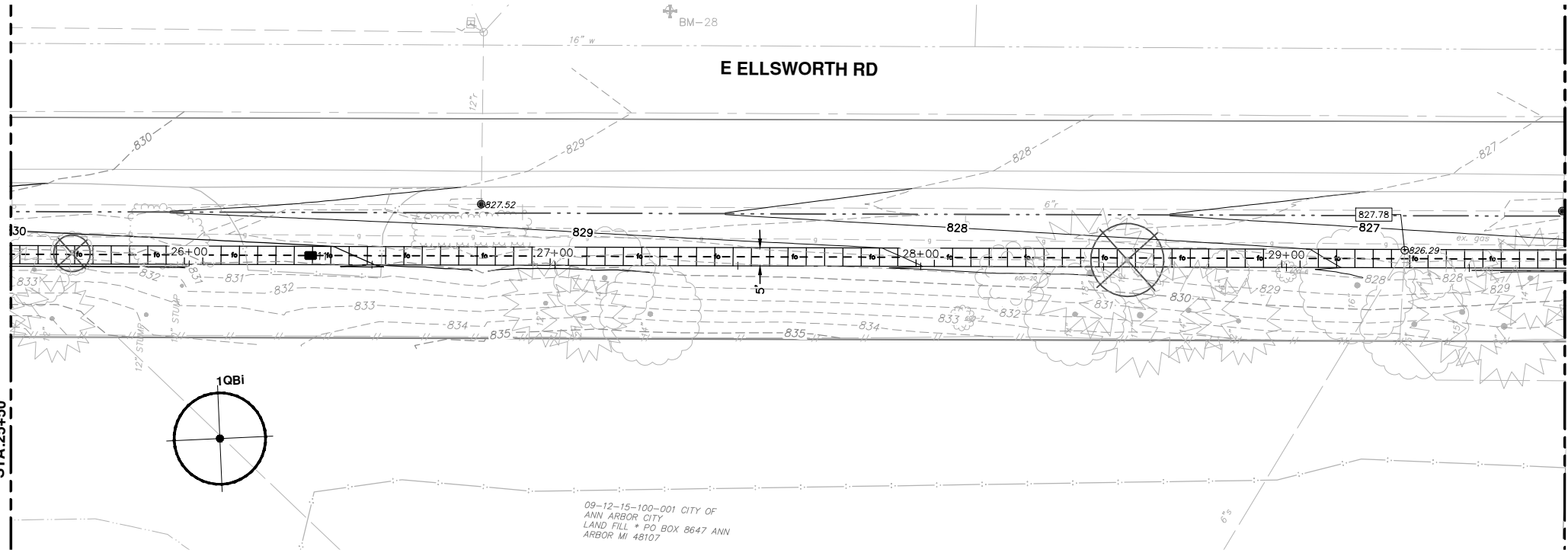


**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
WHEELER CENTER SIDEWALK - PHASE 1  
ELLSWORTH ROAD TREE PLANTING

SCALE PLAN: 1" = 20'  
DRAWING No.  
2014031-36

S:\Project Management\Design\2014031 Wheeler Center PUD\Plan Production\Construction Set\2014031LND51.dwg Dwg Created: 7-Apr-16 - \_o2 standard bw.stb - Plot Date: 12-Apr-16

SEE SHEET 49  
STA:25+50



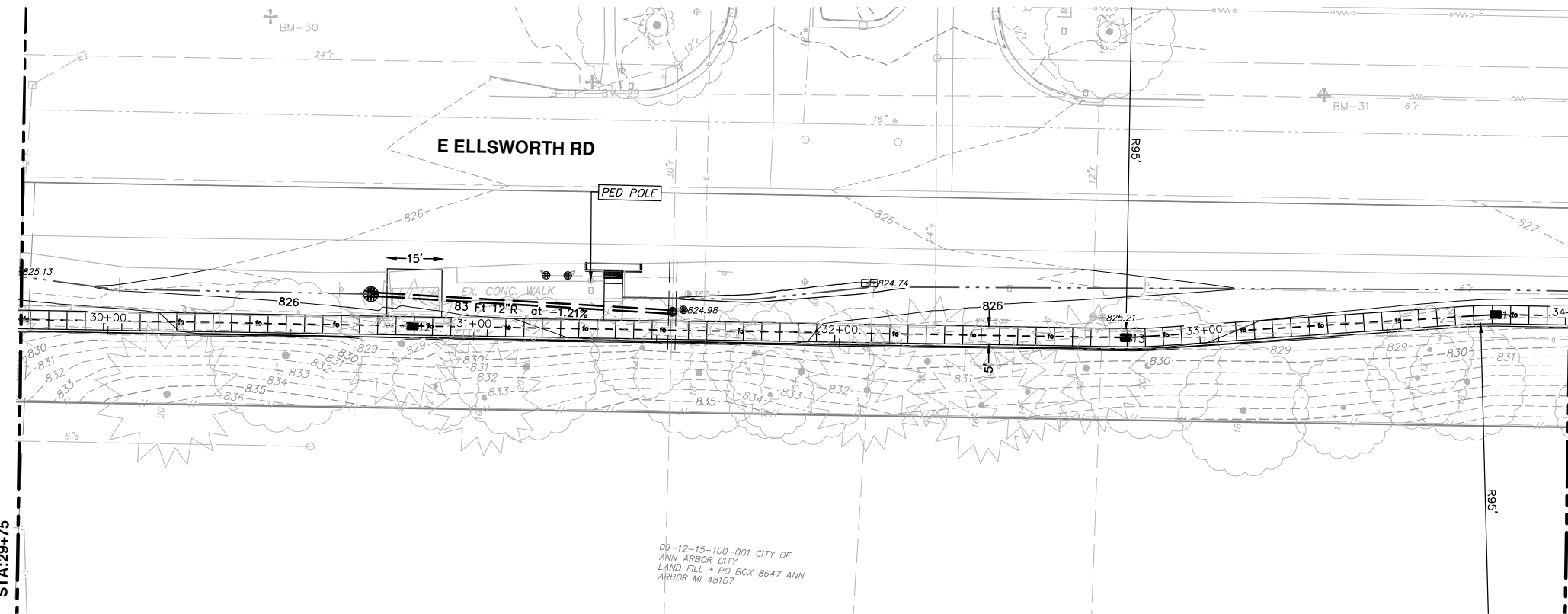
SEE BELOW LEFT  
STA:29+75

**Plant Schedule**

B&B Trees

Key	QTY	Botanical Name	Common Name	Spacing	Form
COc	2	<i>Celtis occidentalis</i>	Hackberry	see plan	2 1/2" caliper B and B
FG	4	<i>Fagus grandifolia</i>	American Beech	see plan	2 1/2" caliper B and B
GYd	2	<i>Gymnocladus dioicus</i>	Kentucky Coffee Tree	see plan	2 1/2" caliper B and B
QBi	3	<i>Quercus bicolor</i>	Swamp White Oak	see plan	2 1/2" caliper B and B
QM	2	<i>Quercus macrocarpa</i>	Bur Oak	see plan	2 1/2" caliper B and B
QRu	2	<i>Quercus rubra</i>	Red Oak	see plan	2 1/2" caliper B and B
PG	2	<i>Picea glauca</i>	White Spruce	see plan	2 1/2" caliper B and B

SEE ABOVE RIGHT  
STA:29+75



SEE SHEET 51  
STA:34+00

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PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR MI 48107-8647  
ANN ARBOR 734-764-4410  
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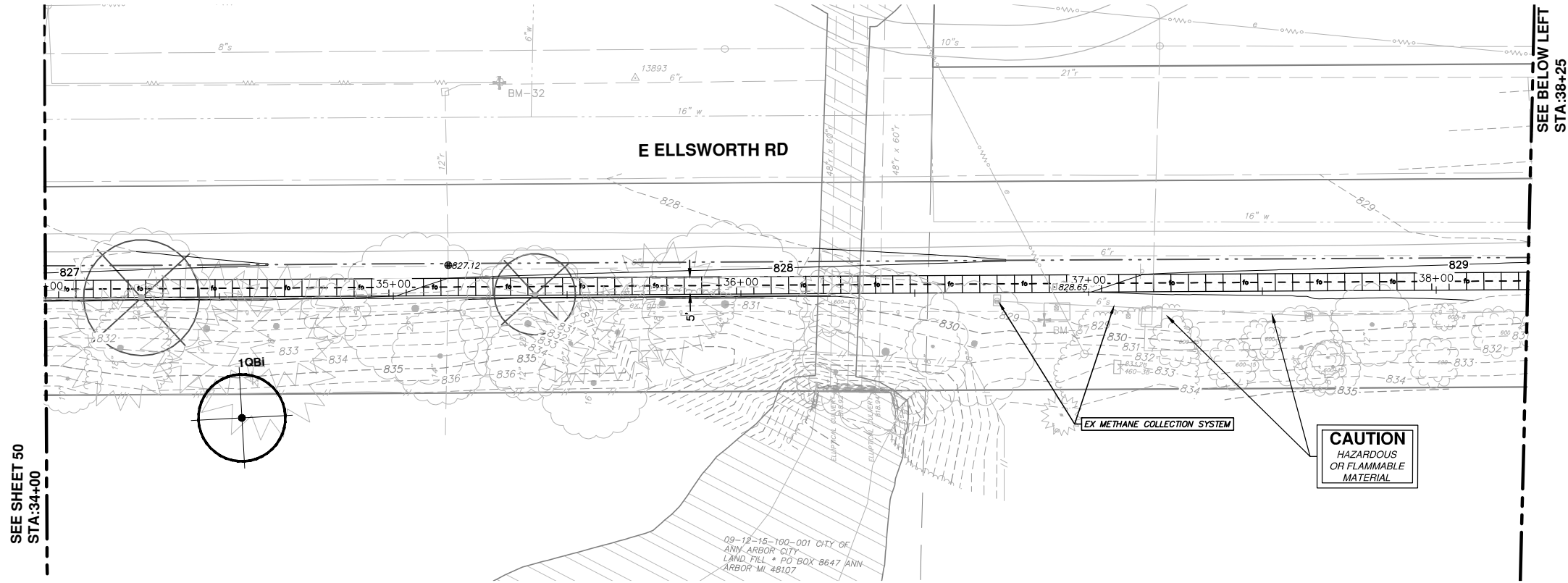
**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**WHEELER CENTER SIDEWALK - PHASE 1**  
ELLSWORTH ROAD TREE PLANTING

SCALE PLAN: 1" = 20'  
DRAWING No.  
**2014031-37**

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD



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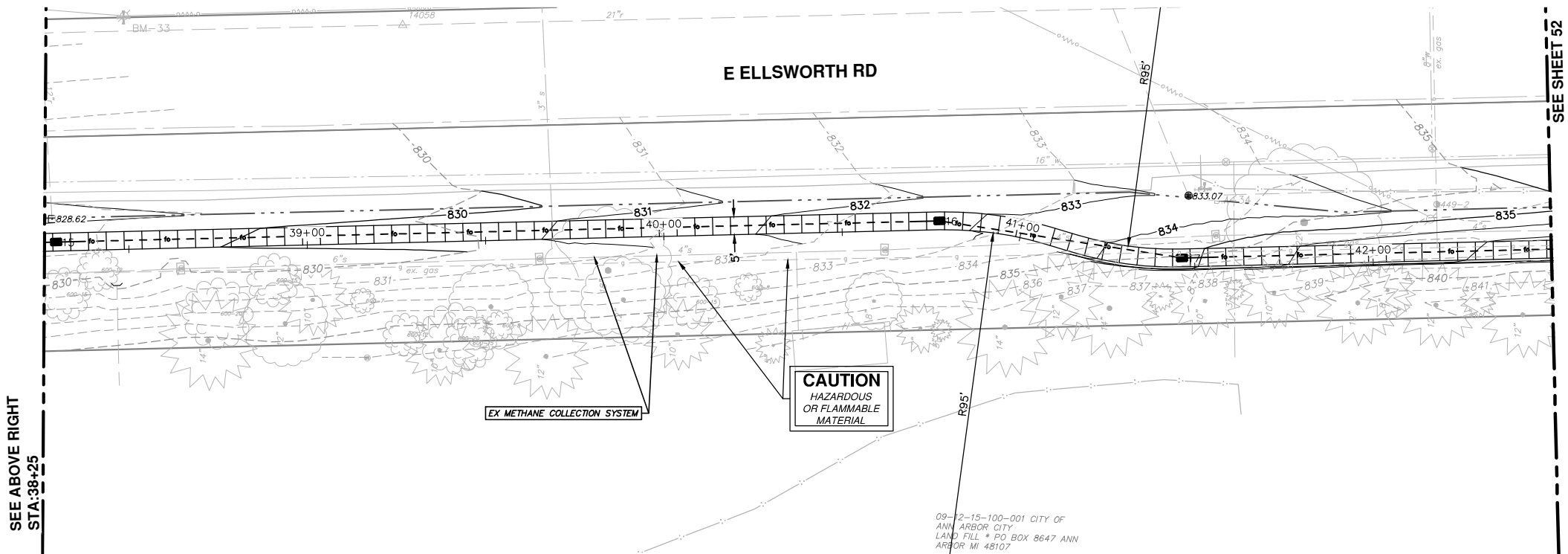
SEE SHEET 50  
STA:34+00

SEE BELOW LEFT  
STA:38+25

**Plant Schedule**

B&B Trees

Key	QTY	Botanical Name	Common Name	Spacing	Form
COc	2	Celtis occidentalis	Hackberry	see plan	2 1/2" caliper B and B
FG	4	Fagus grandifolia	American Beech	see plan	2 1/2" caliper B and B
GYd	2	Gymnocladus dioicus	Kentucky Coffee Tree	see plan	2 1/2" caliper B and B
QBI	3	Quercus bicolor	Swamp White Oak	see plan	2 1/2" caliper B and B
QM	2	Quercus macrocarpa	Bur Oak	see plan	2 1/2" caliper B and B
QRu	2	Quercus rubra	Red Oak	see plan	2 1/2" caliper B and B
PG	2	Picea glauca	White Spruce	see plan	2 1/2" caliper B and B



SEE ABOVE RIGHT  
STA:38+25

SEE SHEET 52  
STA:42+50

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
WHEELER CENTER SIDEWALK - PHASE 1  
ELLSWORTH ROAD TREE PLANTING

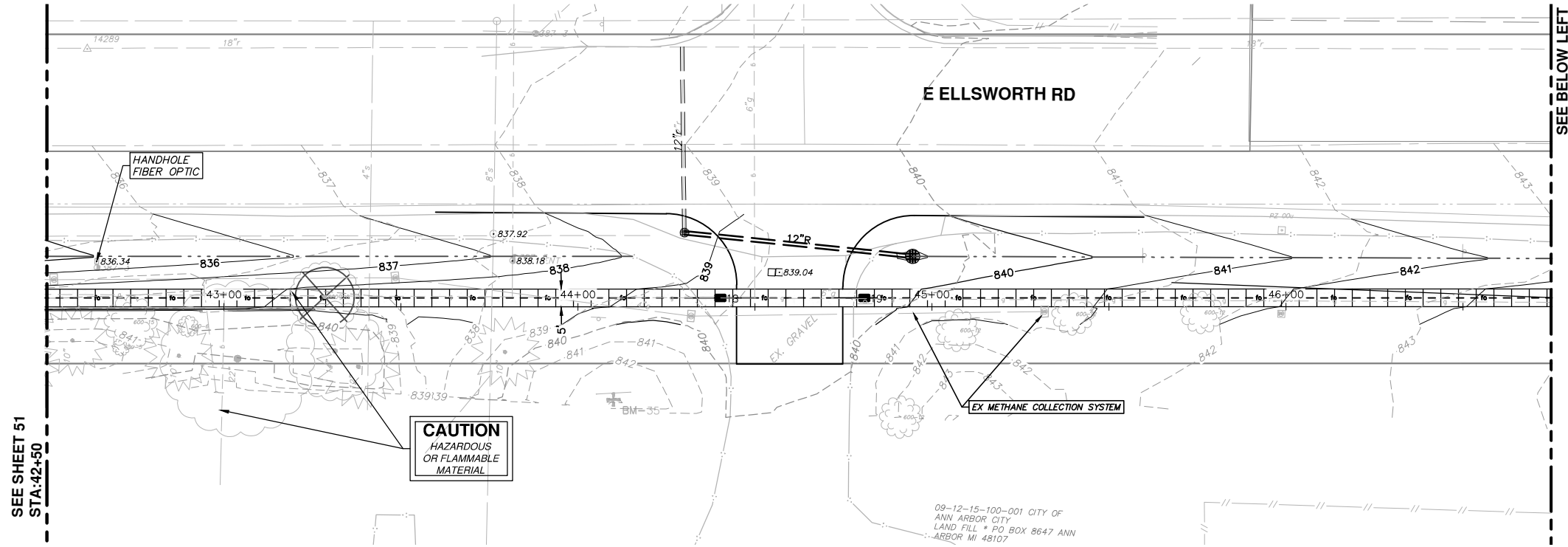
SCALE PLAN: 1" = 20'  
DRAWING No.  
2014031-38

SHEET No.



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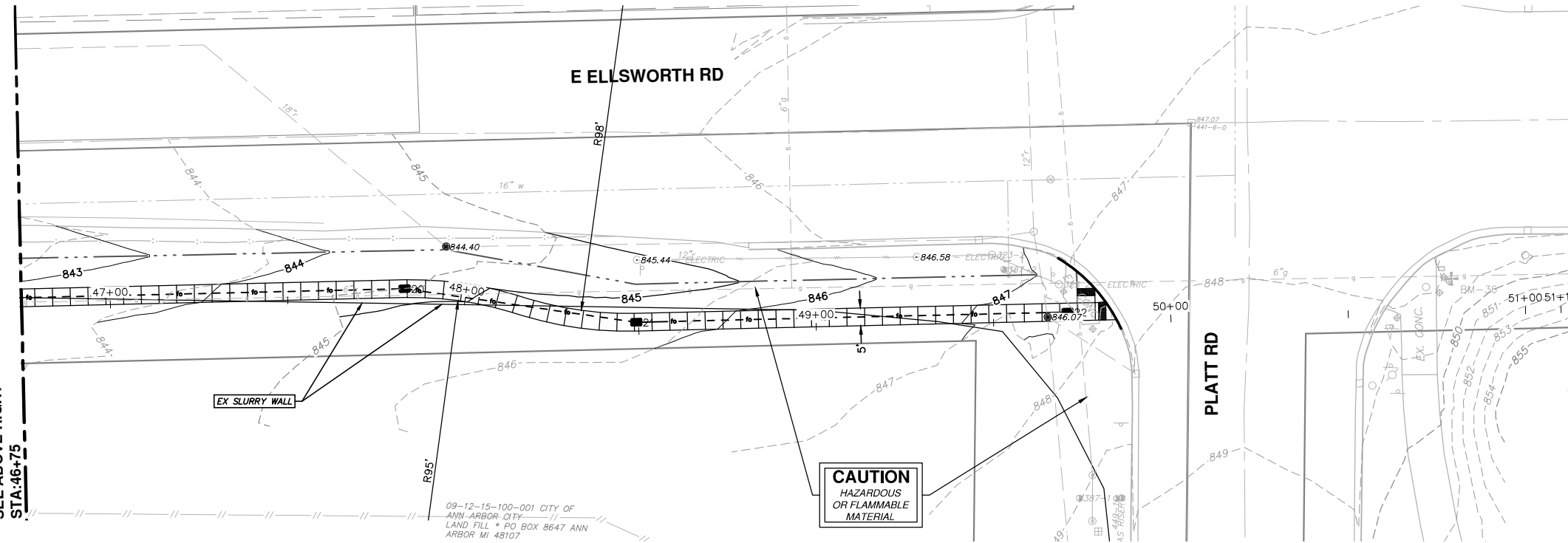
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00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD



SEE SHEET 51  
STA: 42+50

SEE BELOW LEFT  
STA: 46+75

Plant Schedule					
B&B Trees					
Key	QTY	Botanical Name	Common Name	Spacing	Form
COc	2	<i>Celtis occidentalis</i>	Hackberry	see plan	2 1/2" caliper B and B
FG	4	<i>Fagus grandifolia</i>	American Beech	see plan	2 1/2" caliper B and B
GvD	2	<i>Gymnocladus dioicus</i>	Kentucky Coffee Tree	see plan	2 1/2" caliper B and B
QBI	3	<i>Quercus bicolor</i>	Swamp White Oak	see plan	2 1/2" caliper B and B
QM	2	<i>Quercus macrocarpa</i>	Bur Oak	see plan	2 1/2" caliper B and B
QRu	2	<i>Quercus rubra</i>	Red Oak	see plan	2 1/2" caliper B and B
PG	2	<i>Picea glauca</i>	White Spruce	see plan	2 1/2" caliper B and B



SEE ABOVE RIGHT  
STA: 46+75

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
WHEELER CENTER SIDEWALK - PHASE 1  
ELLSWORTH ROAD TREE PLANTING

SCALE PLAN: 1" = 20'  
DRAWING No. 2014031-39

STA. 42+50 - POE

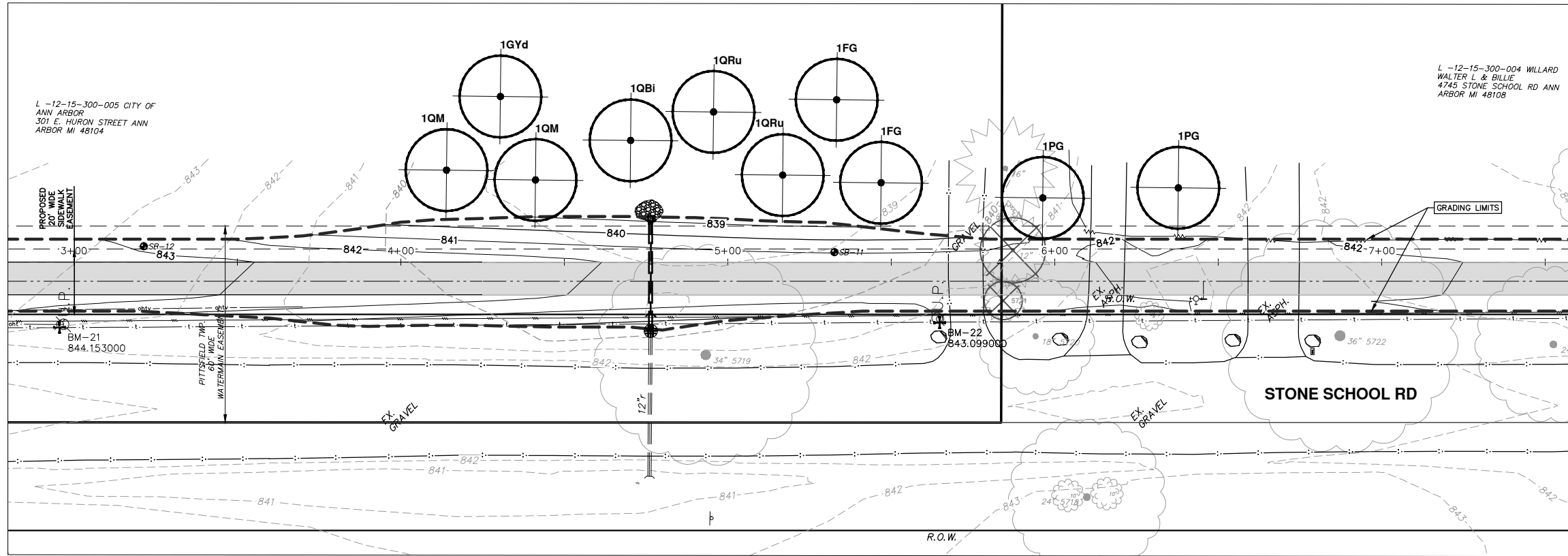
39 OF 41

CITY OF ANN ARBOR  
PUBLIC SERVICE  
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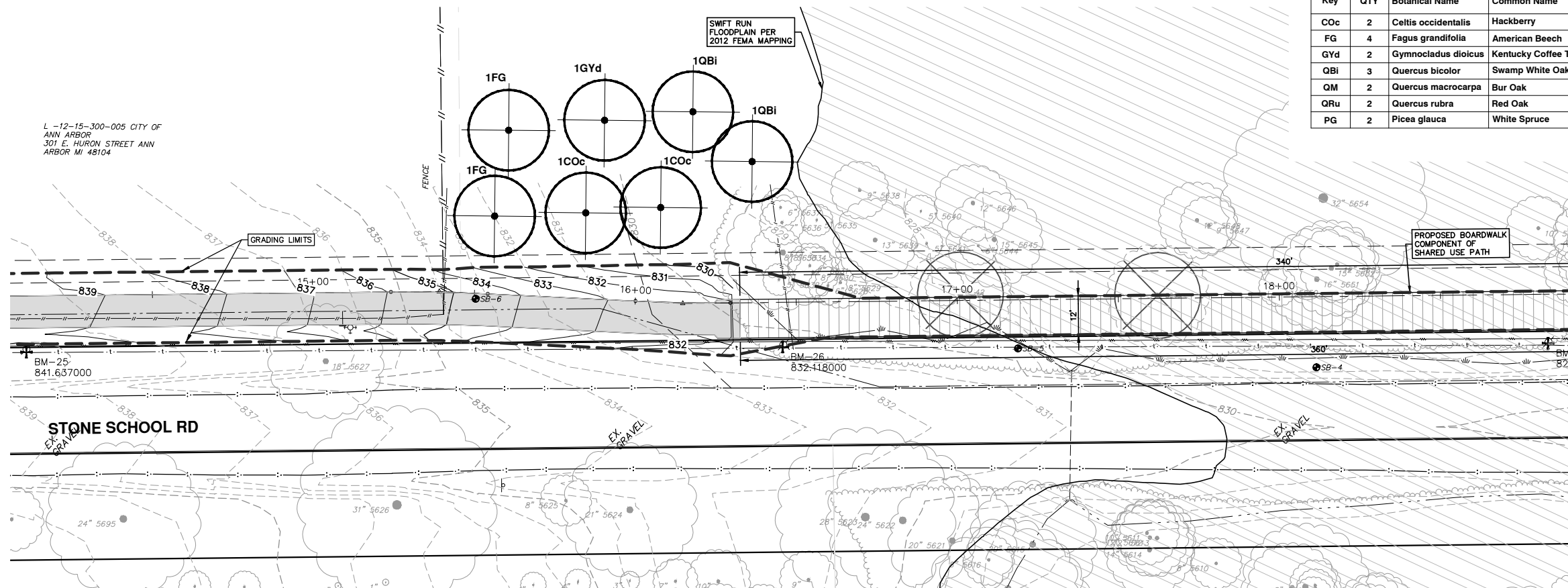
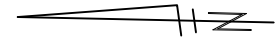
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

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L-12-15-300-004 WILLARD  
WALTER L & BILLIE  
4745 STONE SCHOOL RD ANN  
ARBOR MI 48108



L-12-15-300-005 CITY OF  
ANN ARBOR  
301 E. HURON STREET ANN  
ARBOR MI 48104

SWIFT RUN  
FLOODPLAIN PER  
2012 FEMA MAPPING

PROPOSED BOARDWALK  
COMPONENT OF  
SHARED USE PATH

**Plant Schedule**

Key	QTY	Botanical Name	Common Name	Spacing	Form
COc	2	Celtis occidentalis	Hackberry	see plan	2 1/2" caliper B and B
FG	4	Fagus grandifolia	American Beech	see plan	2 1/2" caliper B and B
GYd	2	Gymnocladus dioicus	Kentucky Coffee Tree	see plan	2 1/2" caliper B and B
QBi	3	Quercus bicolor	Swamp White Oak	see plan	2 1/2" caliper B and B
QM	2	Quercus macrocarpa	Bur Oak	see plan	2 1/2" caliper B and B
QRu	2	Quercus rubra	Red Oak	see plan	2 1/2" caliper B and B
PG	2	Picea glauca	White Spruce	see plan	2 1/2" caliper B and B



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	PATH - PER PITTSFIELD TWP COMMENTS	10-22-15	CEC	DAD

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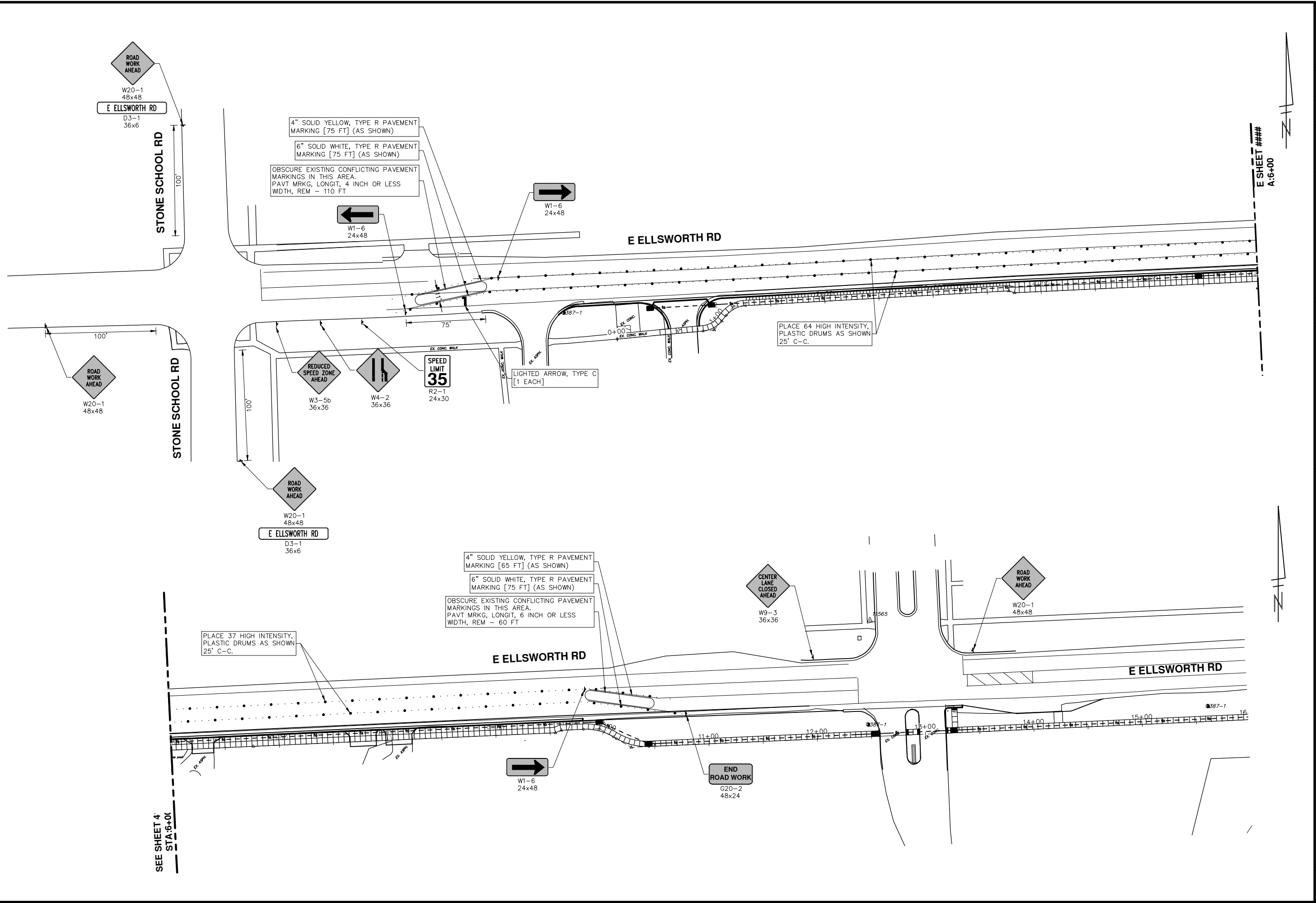


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
WHEELER CENTER SIDEWALK - PHASE 1  
STONE SCHOOL ROAD  
TREE PLANTING

SCALE PLAN: 1" = 20'  
DRAWING No. 2014031-40



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**ANN ARBOR MICHIGAN**

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**WHEELER CENTER SIDEWALK - PHASE 1**

SCALE PLAN: 1" = 40'

DRAWING No. 2014031-41

SHEET No. 41 OF 41

ELLSWORTH ROAD TRAFFIC CONTROL