

Madison, Wisconsin

# CITY OF MADISON

## MADISON WATER UTILITY

### DEPARTMENT OF PUBLIC WORKS

# PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

APRIL 17, 2012

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

WATER SYSTEM IMPROVEMENTS APPROVED BY:

*[Signature]* 4/19/12  
Principal Engineer Date

WATER DESIGNED BY:

*[Signature]*  
ADAM R. WIEDERHOEFT  
E-41559  
MADISON WI  
PROFESSIONAL ENGINEER  
4-19-12

#### INDEX OF SHEETS

| SHEET NO. | TITLE                    |
|-----------|--------------------------|
| 1         |                          |
| AI        | ALIGNMENTS/CONTROL       |
| DI-D6     | DETAILS                  |
| EC1-EC10  | EROSION CONTROL PLAN     |
| WI-W10    | WATER PLAN & PROFILES    |
| W11       | WATER MATERIALS ESTIMATE |

## CANNONBALL PIPELINE PHASE 3 - 2012

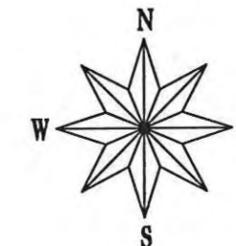
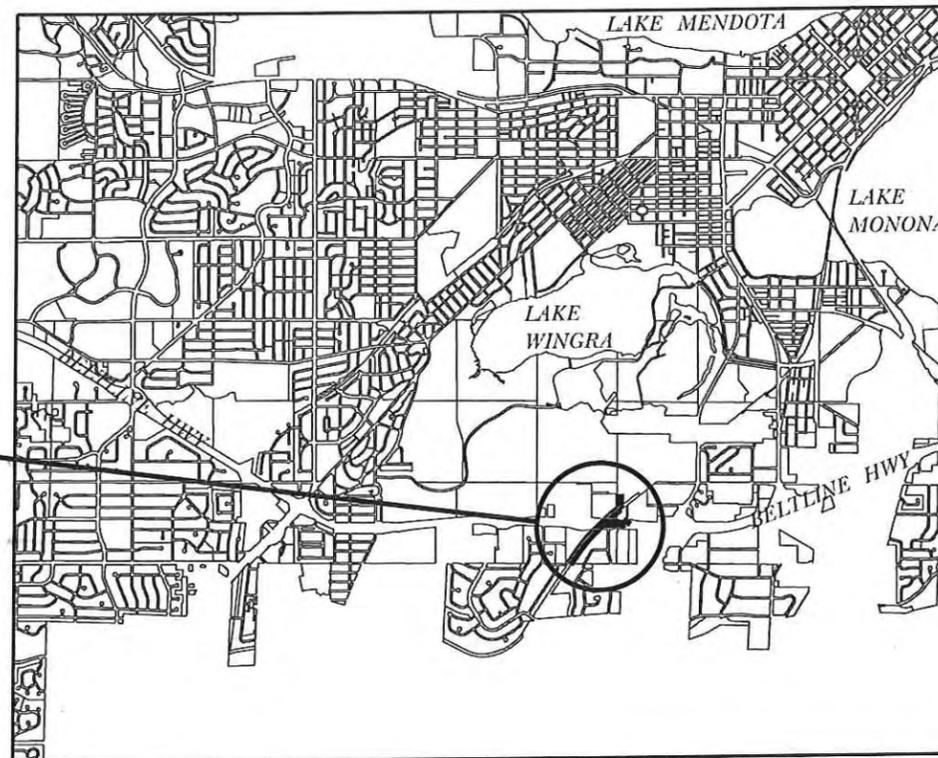
CITY PROJECT NO. 53W1382

CITY CONTRACT NO. 6840

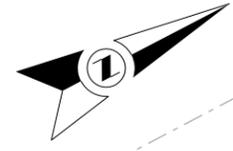
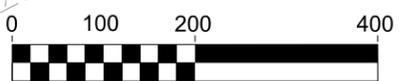
#### CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

|   |         |
|---|---------|
| GAS   | — G —   |
| STORM SEWER                                       | — ST —  |
| SANITARY SEWER                                    | — SAN — |
| WATER   | — W —   |
| OVERHEAD ELECTRIC                                 | — OH —  |
| POWER POLE  | ⊕       |
| ADA COMPLIANT RAMP W/<br>DETECTABLE WARNING FIELD |         |
| COMBUSTIBLE FLUIDS                                |         |



**REVISED 07-27-12**  
**SHEETS W5 THROUGH W8**



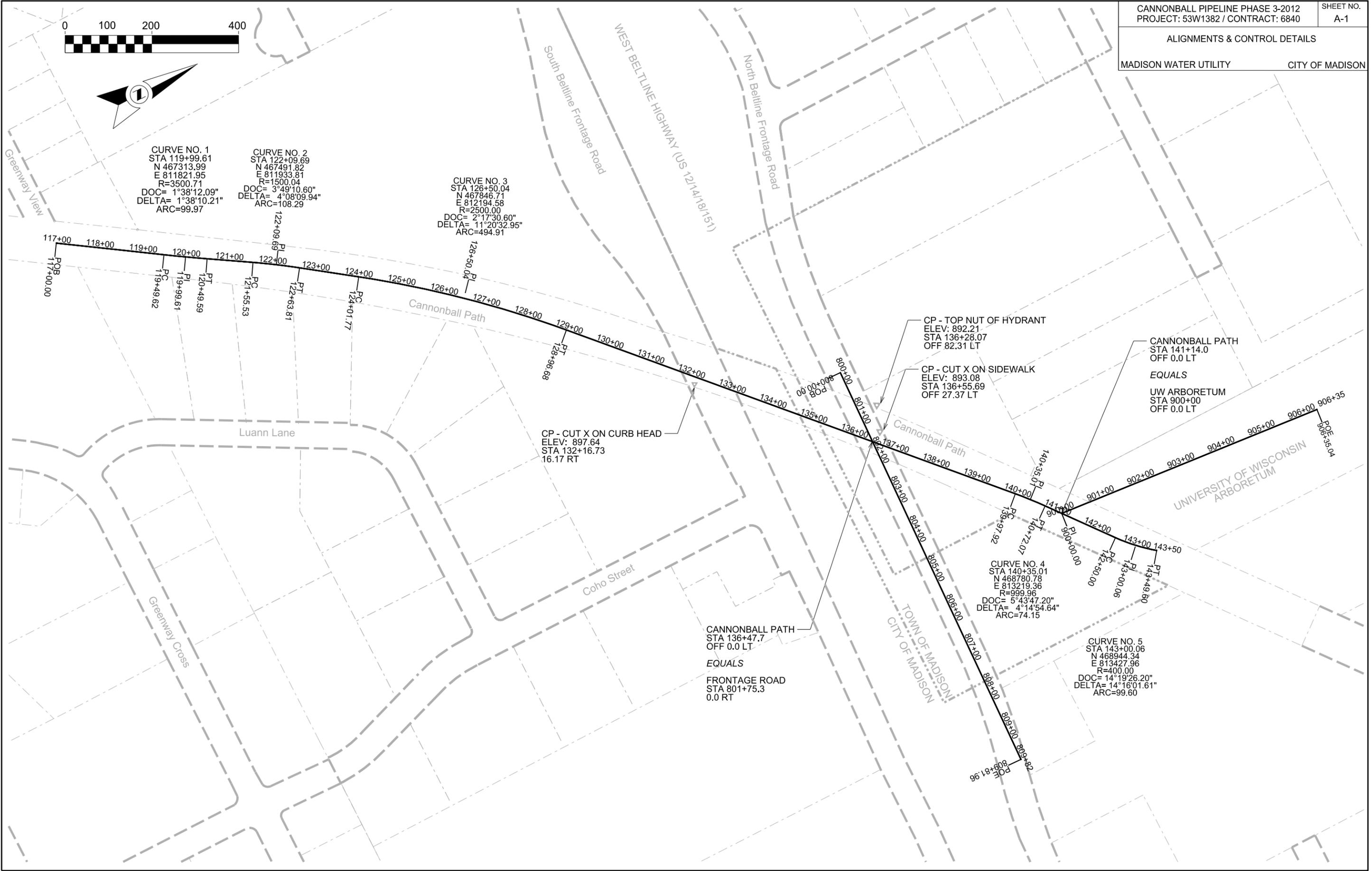
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N 467313.99  
E 811821.95  
R=3500.71  
DOC= 1°38'12.09"  
DELTA= 1°38'10.21"  
ARC=99.97

CURVE NO. 2  
STA 122+09.69  
N 467491.82  
E 811933.81  
R=1500.04  
DOC= 3°49'10.60"  
DELTA= 4°08'09.94"  
ARC=108.29

CURVE NO. 3  
STA 126+50.04  
N 467846.71  
E 812194.58  
R=2500.00  
DOC= 2°17'30.60"  
DELTA= 11°20'32.95"  
ARC=494.91

CURVE NO. 4  
STA 140+35.01  
N 468780.78  
E 813219.36  
R=999.96  
DOC= 5°43'47.20"  
DELTA= 4°14'54.64"  
ARC=74.15

CURVE NO. 5  
STA 143+00.06  
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E 813427.96  
R=400.00  
DOC= 14°19'26.20"  
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ARC=99.60

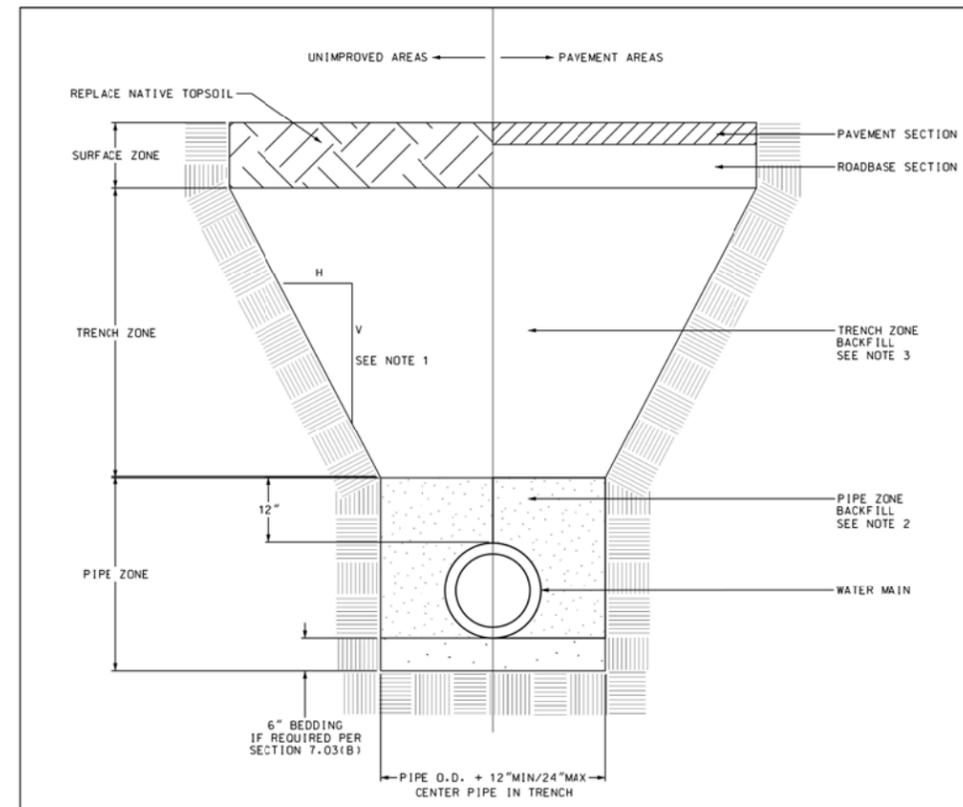


PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

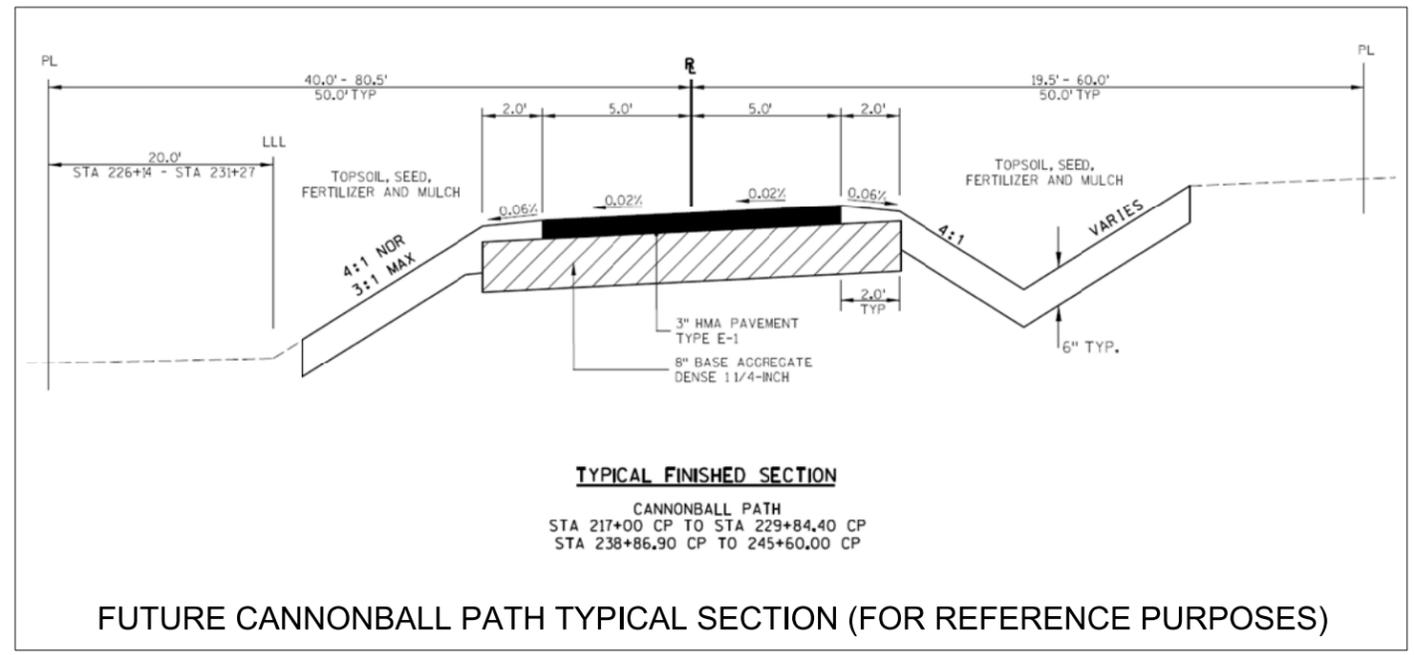


**NOTES:**

- 1) ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE WISCONSIN ADMINISTRATIVE CODE FOR "TRENCH EXCAVATION, AND TUNNEL CONSTRUCTION" AND ANY ADDITIONAL REQUIREMENTS INCLUDED IN THE CONTRACT DOCUMENTS.
- 2) BACKFILL OPERATIONS SHALL COMPLY WITH SECTION 703.8 AND SUBSECTION 202.2(B). THE PIPE ZONE SHALL CONSIST OF SELECT FILL SAND, LIMESTONE SCREENINGS, WASHED OR CLEAR STONE, GRAVEL OR CRUSHED STONE.
- 3) BACKFILL OPERATIONS FOR THE TRENCH ZONE SHALL COMPLY WITH SECTION 703.11.
- 4) COMPACTION REQUIREMENTS:  
PIPE ZONE: COMPACT BEDDING MATERIAL USING A HAND OPERATED MECHANICAL COMPACTOR. FROM 2' OVER PIPE TO 3' BELOW SUBGRADE: MINIMUM OF 90% OF MAX DENSITY. WITHIN 3' OF BOTTOM OF SUBGRADE: MINIMUM OF 95% OF MAX DENSITY

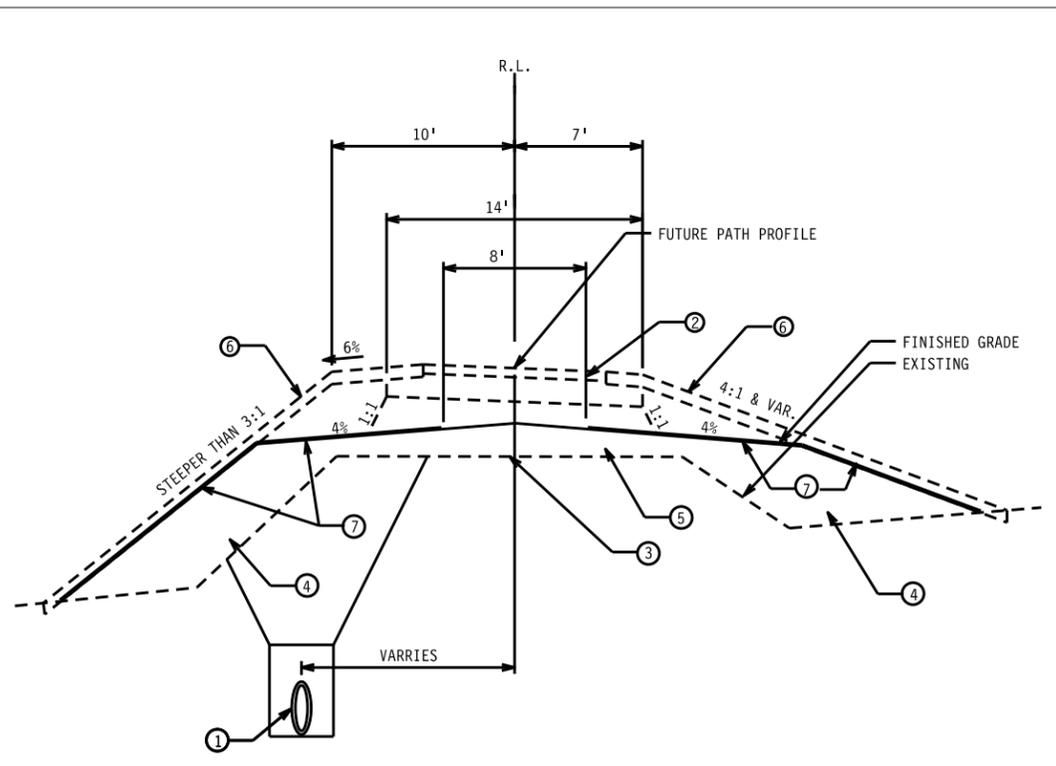
|                                      |
|--------------------------------------|
| CITY OF MADISON<br>WATER UTILITY     |
| <b>TYPICAL WATER<br/>PIPE TRENCH</b> |
| STANDARD DETAIL DRAWING 7.08         |

CREATED: 6/2009



**TYPICAL FINISHED SECTION**  
CANNONBALL PATH  
STA 217+00 CP TO STA 229+84.40 CP  
STA 238+86.90 CP TO 245+60.00 CP

**FUTURE CANNONBALL PATH TYPICAL SECTION (FOR REFERENCE PURPOSES)**



**PROPOSED TYPICAL SECTION - EXCESS MATERIAL STOCKPILE**

FILL SECTION IN EXIST. RR FILL SECTION

**LEGEND**

- ① PROP. 12/16-INCH WATER MAIN (NOTE 2)
- ② 3 IN. HMA PAVEMENT, TYPE E-1 (FUTURE BY OTHERS)
- ③ EXISTING CRUSHED STONE PATH (VARRIES)
- ④ EXCESS MATERIAL FROM TRENCH EXCAVATION (SEE NOTES 3 AND 4)
- ⑤ SUITABLE FILL MATERIAL PER 202.2(a) FROM TRENCH EXCAVATION
- ⑥ 4 IN. TOPSOIL, PERMANENT SEEDING AND MULCH (FUTURE BY OTHERS)
- ⑦ TERRACE RESTORATION AND EROSION MATT PER SPECS, OR POLYMER STABILIZATION WITH SILT FENCING PER SPECS (LOCATION DEPENDANT).

**NOTES:**

1. TYPICAL SECTIONS SHOWN ARE FOR INSTALLATION OF WATER MAIN BY SEPARATE CONTRACT IN ADVANCE OF PATH CONSTRUCTION
2. SEE DETAIL DRAWING 7.08 FOR WATER MAIN TRENCH REQUIREMENTS.
3. OUTSIDE 1:1 SLOPE LINES FILL MATERIAL MAY BE TOPSOIL, PEAT OR OTHER MATERIALS OBTAINED FROM EXCAVATION WITHIN PROJECT LIMITS WHICH ARE NOT ORDINARILY SUITABLE FOR EMBANKMENT CONSTRUCTION.
4. NO MATERIAL SHALL BE PLACED OUTSIDE LIMITS OF FUTURE PATH EMBANKMENT. VERIFY PLACEMENT LOCATIONS WITH ENGINEER PRIOR TO PROCEEDING WITH STOCKPILING.
5. INTERIM PATH ELEVATION SHALL NOT EXCEED FUTURE PATH PROFILE FINISHED GRADE SHALL BE CONSTRUCTED TO MATCH EXISTING GRADE UNLESS FUTURE PATH PROFILE IS LOWER THAN EXISTING GRADE. REQUIRED FINISHED GRADE ELEVATIONS ARE NOTED ON PROFILE SHEETS.

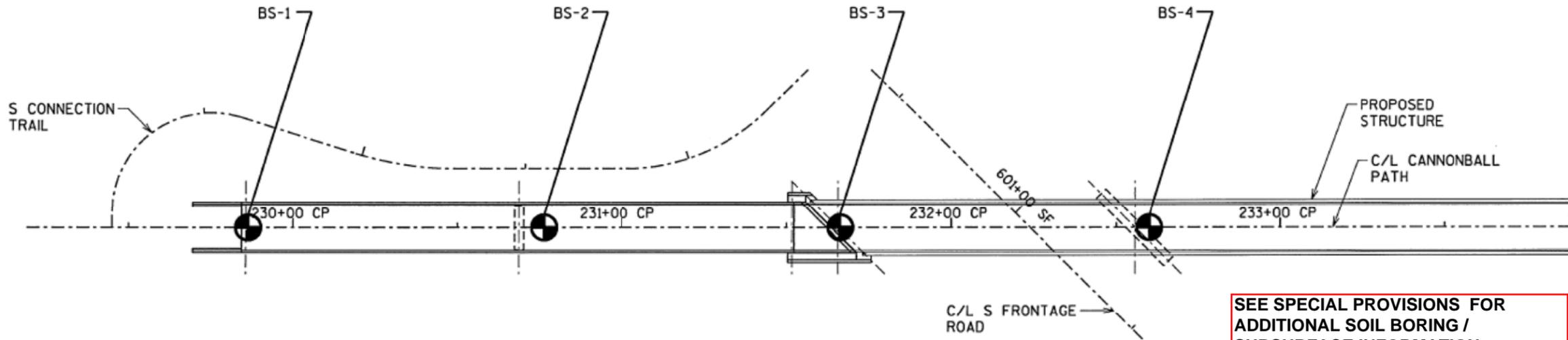
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PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

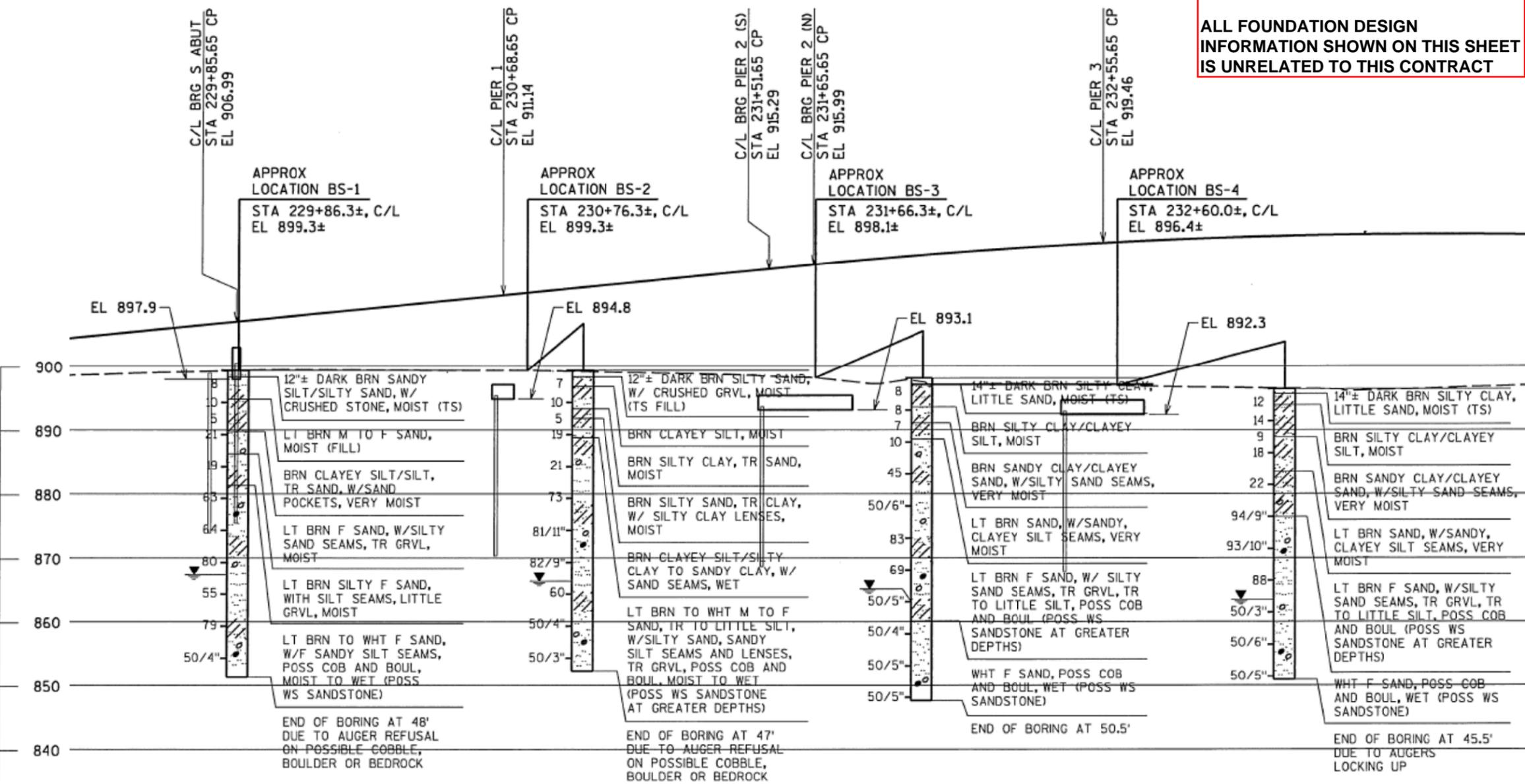
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

DETAILS - W. BELTLINE HWY SOIL BORINGS  
 \* FOR REFERENCE ONLY - PRELIMINARY WI-DOT PLAN



**SEE SPECIAL PROVISIONS FOR  
 ADDITIONAL SOIL BORING /  
 SUBSURFACE INFORMATION**

**ALL FOUNDATION DESIGN  
 INFORMATION SHOWN ON THIS SHEET  
 IS UNRELATED TO THIS CONTRACT**



|  |                     |
|--|---------------------|
| STATE PROJECT NUMBER   |                     |
| 5992-09-07   |                     |
| ABBREVIATIONS  |                     |
| F— FINE  | M— MEDIUM C— COARSE |
| WS— WEATHERED  | SO— SOUND           |
| MATERIAL SYMBOLS   |                     |
| TOPSOIL  | SILT SANDSTONE      |
| SAND   | PEAT LIMESTONE      |
| GRAVEL   | CLAY IGNEOUS ROCK   |
| LEGEND OF PROBING  |                     |
| PROBING NO. STA. ELEVATION   |                     |
| 95/6=95 BLOWS FOR 6" PENETRATION TAKEN WITH A 350# WT. FALLING 18" ON A 2" O.D. POINT. |                     |
| 7 AVERAGE BLOWS PER FOOT REFUSAL 95/6  |                     |

|   |                        |
|---|------------------------|
| LEGEND OF BORING                              |                        |
| ELEV.   | BORING NO. STA.        |
| UNCONFINED STRENGTH 7.7                       | SANDY GRAVEL           |
| BLOWS PER FT. USING 140# WT. FALLING 30"      | F. BOULDERS OR COBBLES |
| WASH SAMPLE                                   | SAND                   |
| SHELBY TUBE — S.T.                            | SILTY CLAY             |
| GROUND WATER ELEVATION                        | SO LIMESTONE           |
| NO GROUND WATER OBSERVED ABOVE THIS ELEVATION |                        |

UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

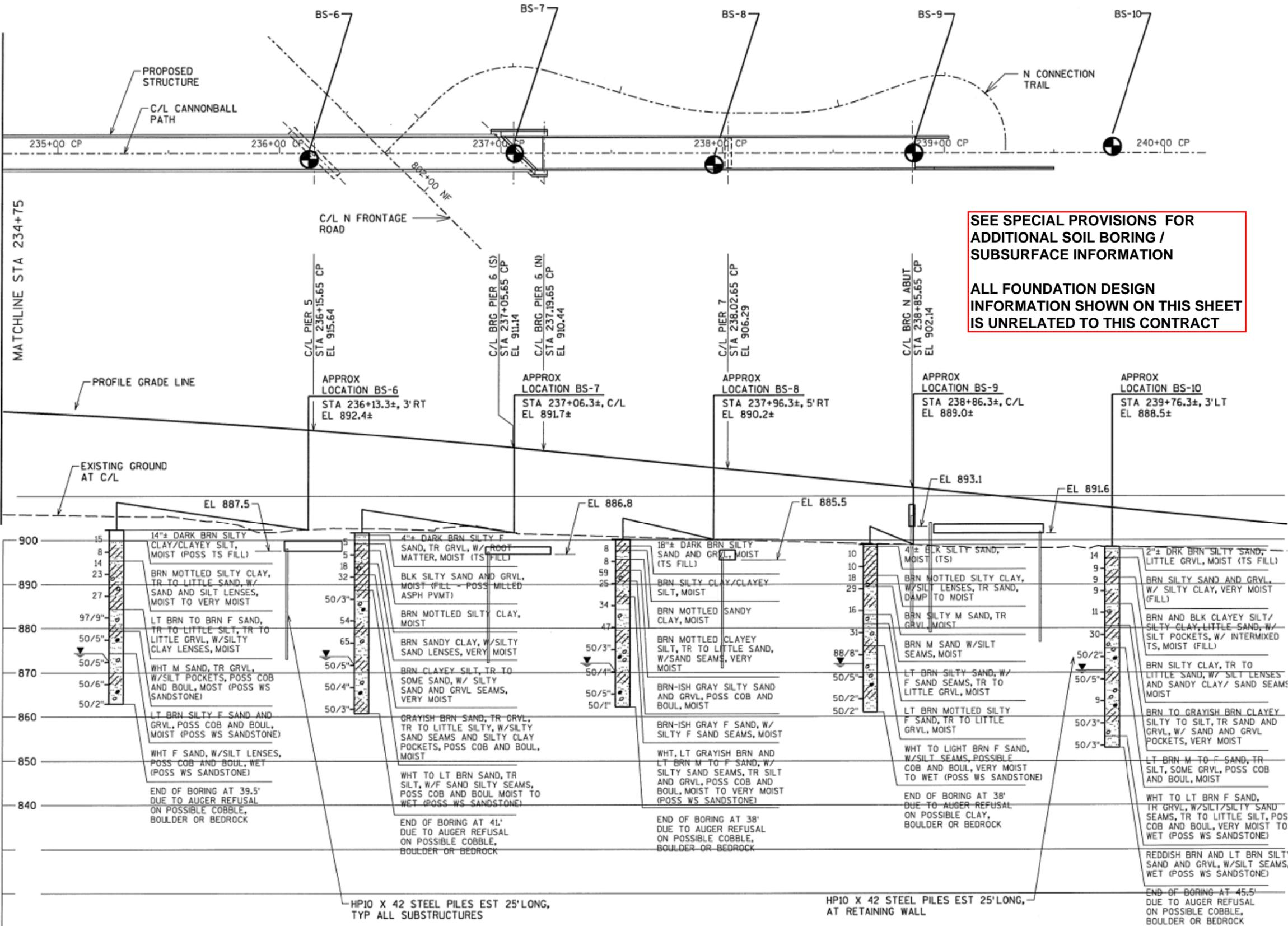
TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

SOIL BORINGS PERFORMED BY:  
 MIDWEST ENGINEERING SERVICES, INC  
 821 CORPORATE COURT  
 SUITE 102  
 WALKESHA, WI 53189-5010  
 PH: 262.521.2125 FAX: 262.521.2471

REPORT BY:  
 BRADLEY J BROBACK, P.E. PROJECT ENGINEER

PLOT SCALE: \_\_\_\_\_  
 PLOT NAME: \_\_\_\_\_  
 REV. DATE: \_\_\_\_\_  
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

DETAILS - W. BELTLINE HWY SOIL BORINGS  
 \* FOR REFERENCE ONLY - PRELIMINARY WI-DOT PLAN



STATE PROJECT NUMBER  
**5992-09-07**

ABBREVIATIONS  
 F— FINE M— MEDIUM C— COARSE  
 WS— WEATHERED SO— SOUND

MATERIAL SYMBOLS

|         |      |              |
|---------|------|--------------|
| TOPSOIL | SILT | SANDSTONE    |
| SAND    | PEAT | LIMESTONE    |
| GRAVEL  | CLAY | IGNEOUS ROCK |

LEGEND OF PROBING

PROBING NO.  
 STA.  
 ELEVATION  
 95/6=95 BLOWS FOR 6"  
 PENETRATION  
 PROBING TAKEN WITH  
 A 350\* WT.  
 FALLING 38" ON A 2"  
 O.D. POINT.  
 REFUSAL 95/6

LEGEND OF BORING

BORING NO.  
 STA.  
 ELEV.

UNCONFINED STRENGTH → 7.7  
 BLOWS PER FT. USING 140\* WT. FALLING 30"

WASH SAMPLE

SHELBY TUBE — S.T.

GROUND WATER ELEVATION

NO GROUND WATER OBSERVED ABOVE THIS ELEVATION

SANDY GRAVEL  
 F. BOULDERS OR COBBLES  
 SAND  
 SILTY CLAY  
 SO LIMESTONE

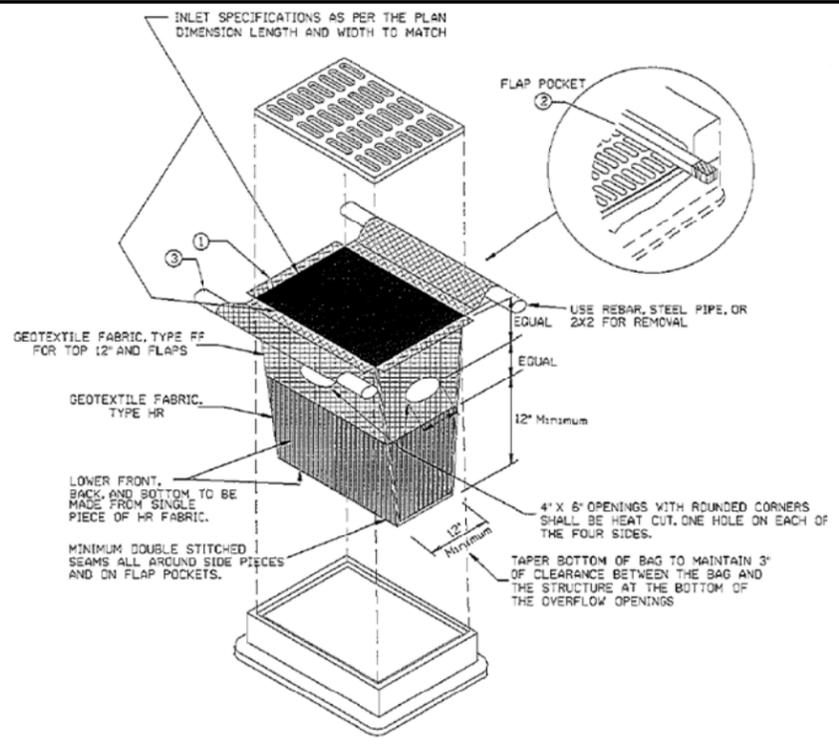
SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

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 ORIGINATOR: CITY OF MADISON, STREETS DIVISION



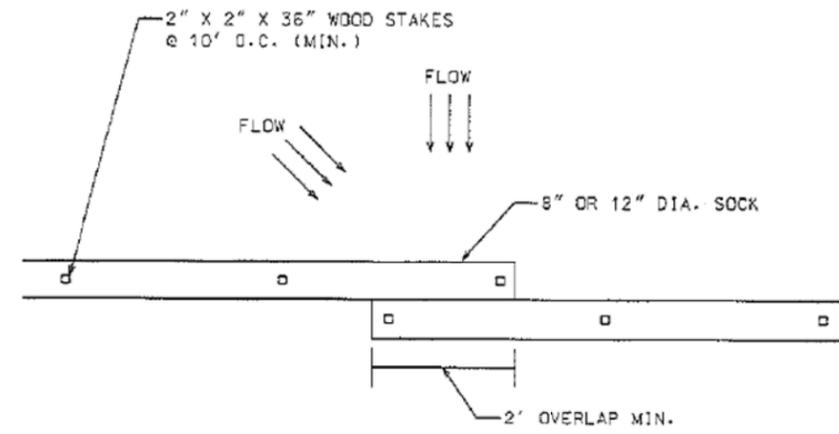
CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX.

**GENERAL NOTES**

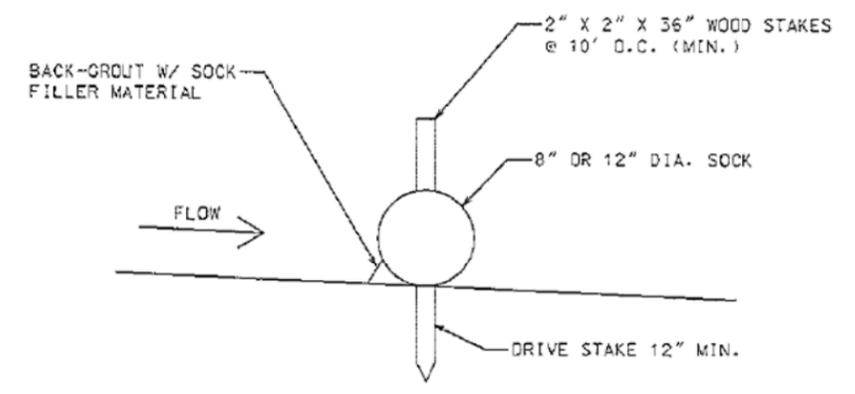
- 1. CLEANING SHALL BE REQUIRED WHEN SEDIMENT OR STANDING WATER IS WITHIN 6\"/>

**INLET PROTECTION  
 TYPE D  
 HYBRID**

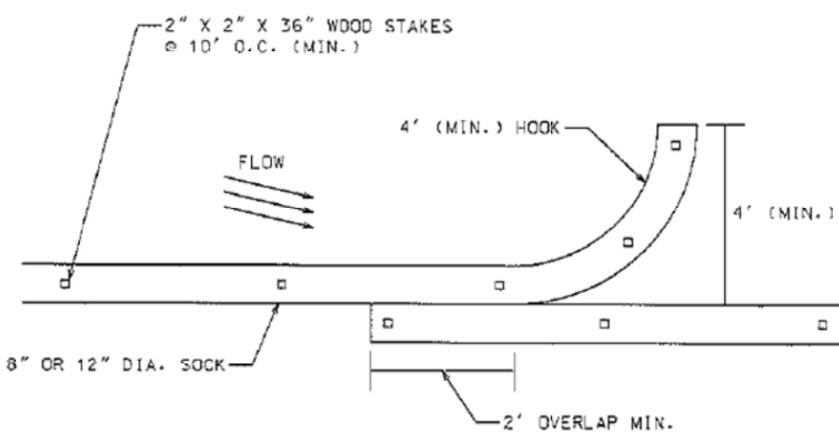
STANDARD DETAIL DRAWING 1.11



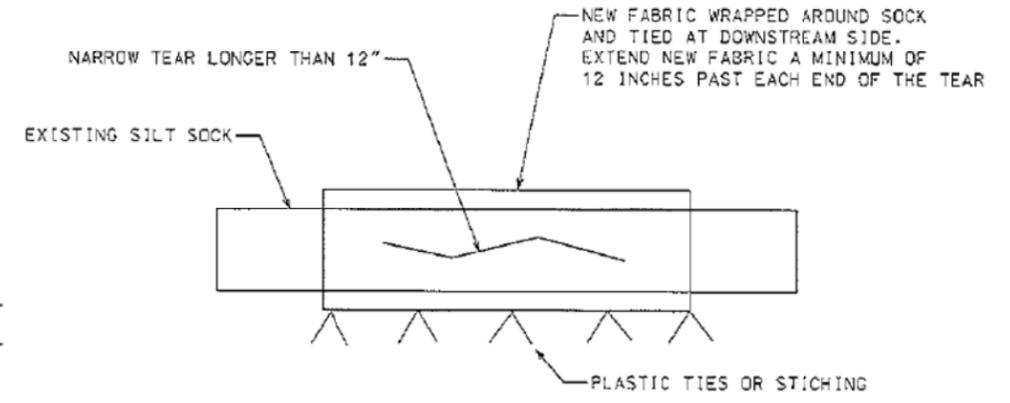
PLAN VIEW - FLOW 45 TO 90 DEG. TO SOCK



SECTION VIEW



PLAN VIEW - FLOW LESS THAN 45 DEG. TO SOCK



REPAIR DETAIL - TEAR GREATER THAN 12 INCHES

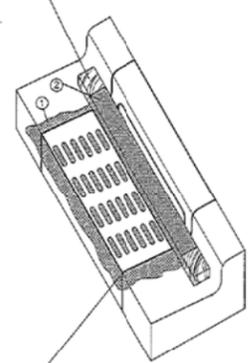
**GENERAL NOTES:**

1. SOCK MATERIAL PER STANDARD SPECIFICATIONS. SILT SOCK FILLER SHALL BE COMPOST OR WOOD CHIPS (2\"/>

WOOD 2X4 EXTENDS 8\"/>

**GENERAL NOTES:**

- 1. CLEANING IS REQUIRED WHEN FABRIC HOLDS 1/2\"/>
- 2. FABRIC SHALL BE REPLACED WHEN AN AREA UNDER THE GRATE HAS A TEAR 1\"/>
- 3. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX.
- 4. MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE WISDOT EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.
- 5. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.



TYPE C = GEOTEXTILE FABRIC TYPE FF  
 TYPE C "MODIFIED" = GEOTEXTILE FABRIC TYPE HR

2012

CITY OF MADISON  
 ENGINEERING DIVISION

**INLET PROTECTION  
 TYPE C AND  
 TYPE C "MODIFIED"**

STANDARD DETAIL DRAWING 1.04

2012

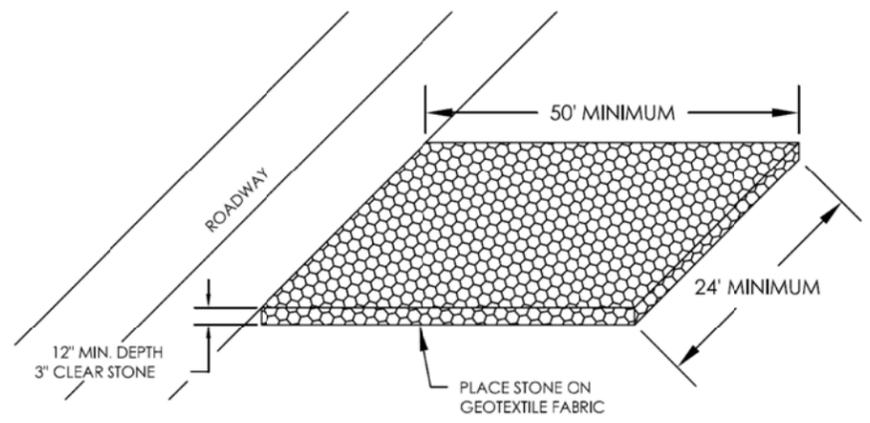
CITY OF MADISON  
 ENGINEERING DIVISION

**SILT SOCK**

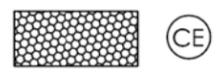
STANDARD DETAIL DRAWING 1.09

PLOT SCALE: \_\_\_\_\_ PLOT NAME: \_\_\_\_\_ REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON - STREETS DIVISION

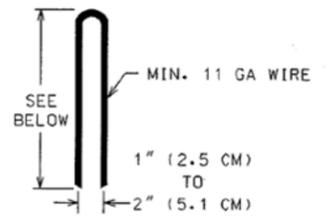


**STONE CONSTRUCTION ENTRANCE**



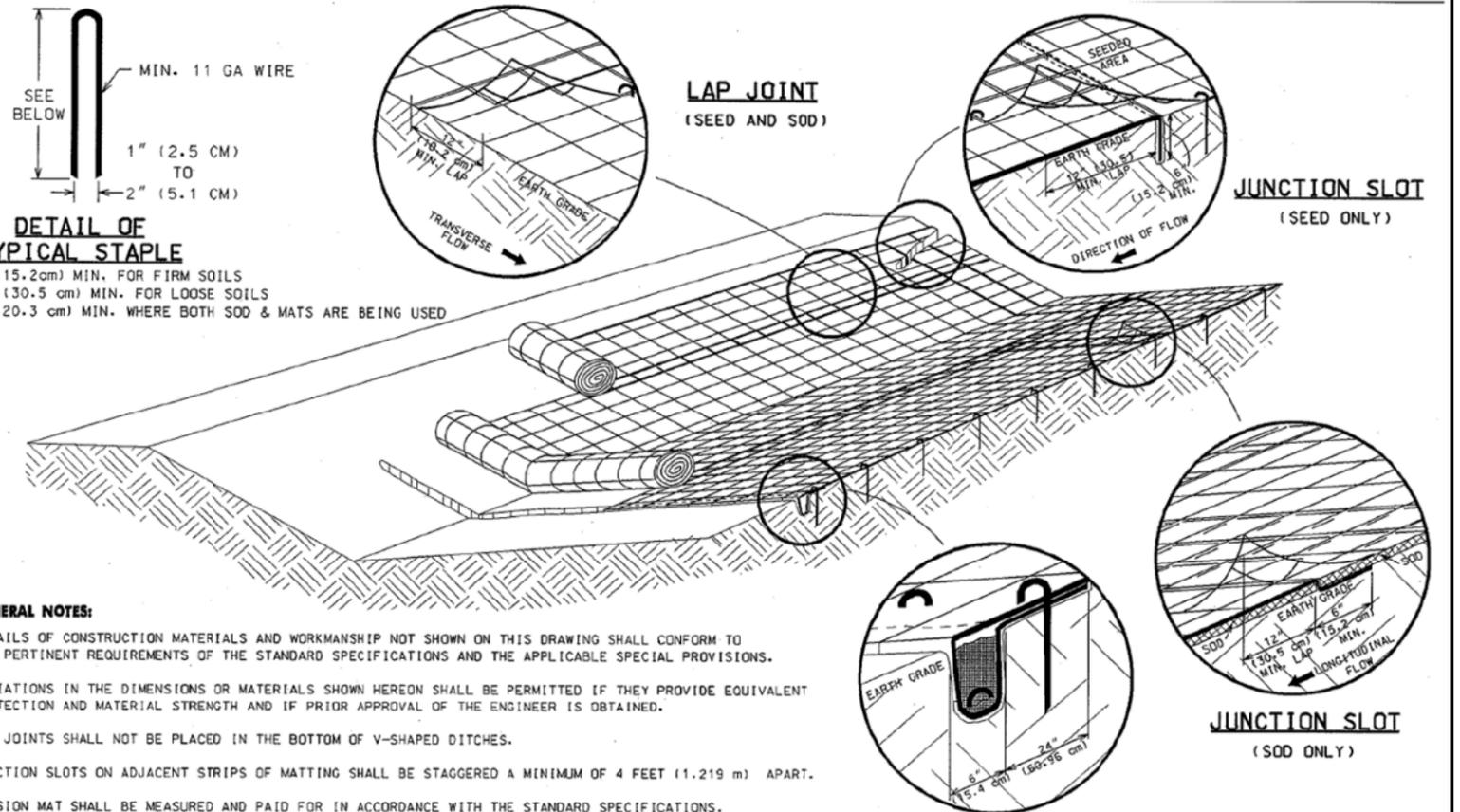
**GENERAL NOTES:**

1. CONSTRUCTION ENTRANCE TO BE INSTALLED PRIOR TO ANY TRAFFIC LEAVING THE SITE.
2. THE AGGREGATE FOR THE CONSTRUCTION ENTRANCE SHALL BE 3 INCH CLEAR OR WASHED STONE.
3. AGGREGATE SHALL BE PLACED IN A LAYER AT LEAST 12 INCHES THICK.
4. THE CONSTRUCTION ENTRANCE SHALL BE UNDERLAIN WITH A WOOD TYPE HR OR FF GEOTEXTILE FABRIC TO PREVENT MIGRATION OF UNDERLYING SOIL INTO THE STONE.
5. SURFACE WATERS MUST BE PREVENTED FROM PASSING THROUGH THE CONSTRUCTION ENTRANCE. FLOWS SHALL BE DIVERTED AWAY FROM THE CONSTRUCTION ENTRANCE OR CONVEYED UNDER AND AROUND THEM BY USE OF A CULVERT, DIVERSION BERM OR OTHER PRACTICES AS APPROVED BY THE CONSTRUCTION ENGINEER.
6. CLEANING BY SCRAPING OR ADDING NEW STONE SHALL BE REQUIRED IF ENTRANCE BECOMES MORE THAN 50% COVERED BY TRACKED MUD.



**DETAIL OF TYPICAL STAPLE**

6" (15.2cm) MIN. FOR FIRM SOILS  
 12" (30.5 cm) MIN. FOR LOOSE SOILS  
 8" (20.3 cm) MIN. WHERE BOTH SOD & MATS ARE BEING USED



**GENERAL NOTES:**

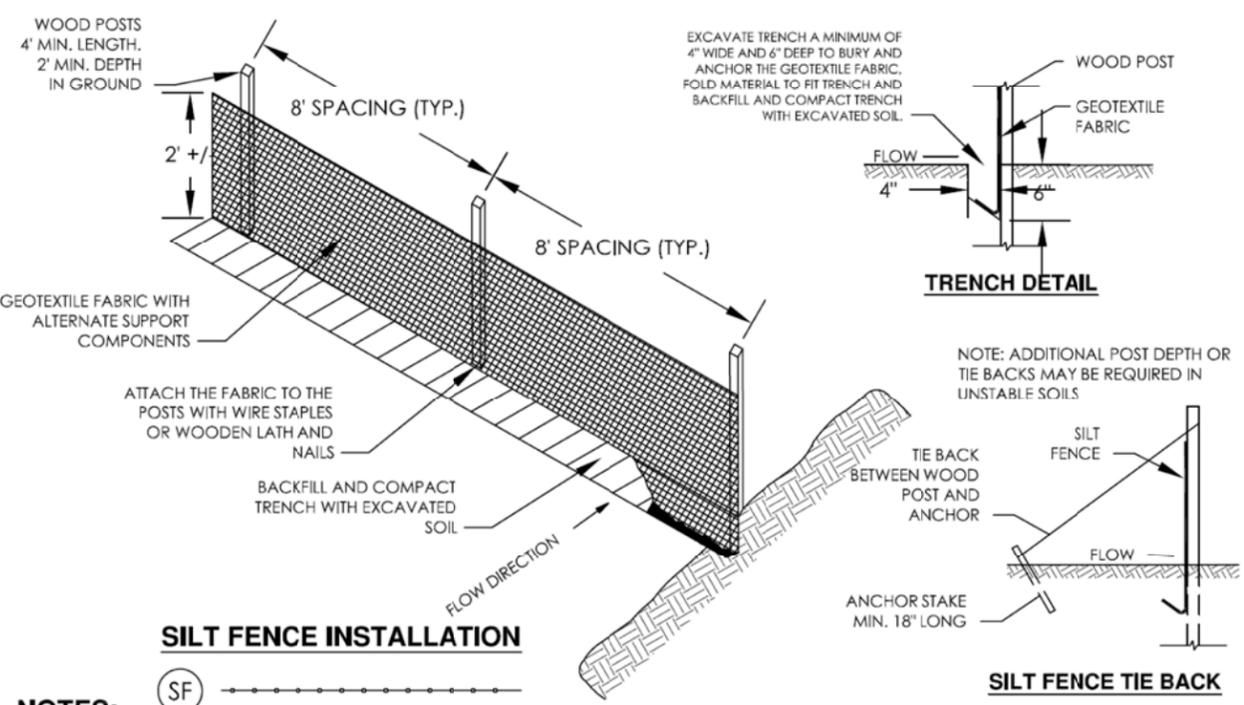
DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.  
 VARIATIONS IN THE DIMENSIONS OR MATERIALS SHOWN HEREON SHALL BE PERMITTED IF THEY PROVIDE EQUIVALENT PROTECTION AND MATERIAL STRENGTH AND IF PRIOR APPROVAL OF THE ENGINEER IS OBTAINED.  
 LAP JOINTS SHALL NOT BE PLACED IN THE BOTTOM OF V-SHAPED DITCHES.  
 JUNCTION SLOTS ON ADJACENT STRIPS OF MATTING SHALL BE STAGGERED A MINIMUM OF 4 FEET (1.219 m) APART.  
 EROSION MAT SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

**EROSION MAT OVER SOD:**

- a. ONLY JUTE FABRIC WILL BE PERMITTED OVER SOD.
- b. WOOD STAKES FOR SOD MAY BE OMITTED BY THE ENGINEER IF EXISTING SLOPE AND SOIL CONDITIONS SO WARRANT.
- c. THE WIDTH OF EROSION MAT SHALL ALWAYS EXCEED THE SOD WIDTH.

**EROSION MAT OVER SEEDING:**

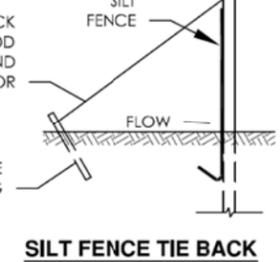
JUNCTION OR ANCHOR SLOTS SHALL BE AT MINIMUM INTERVALS OF 100 FEET (30.48 m) ON GRADES UP TO AND INCLUDING 3 PERCENT, AND 50 FEET (15.24 m) ON GRADES EXCEEDING 3 PERCENT.



**SILT FENCE INSTALLATION**

**TRENCH DETAIL**

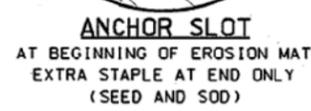
NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS



**SILT FENCE TIE BACK**

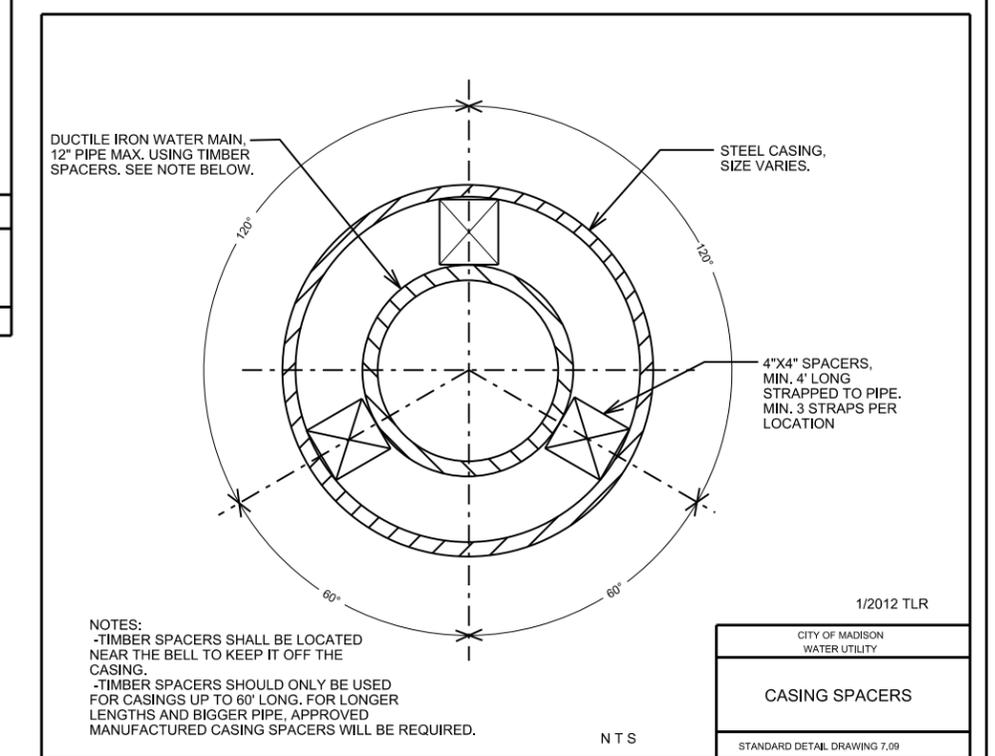
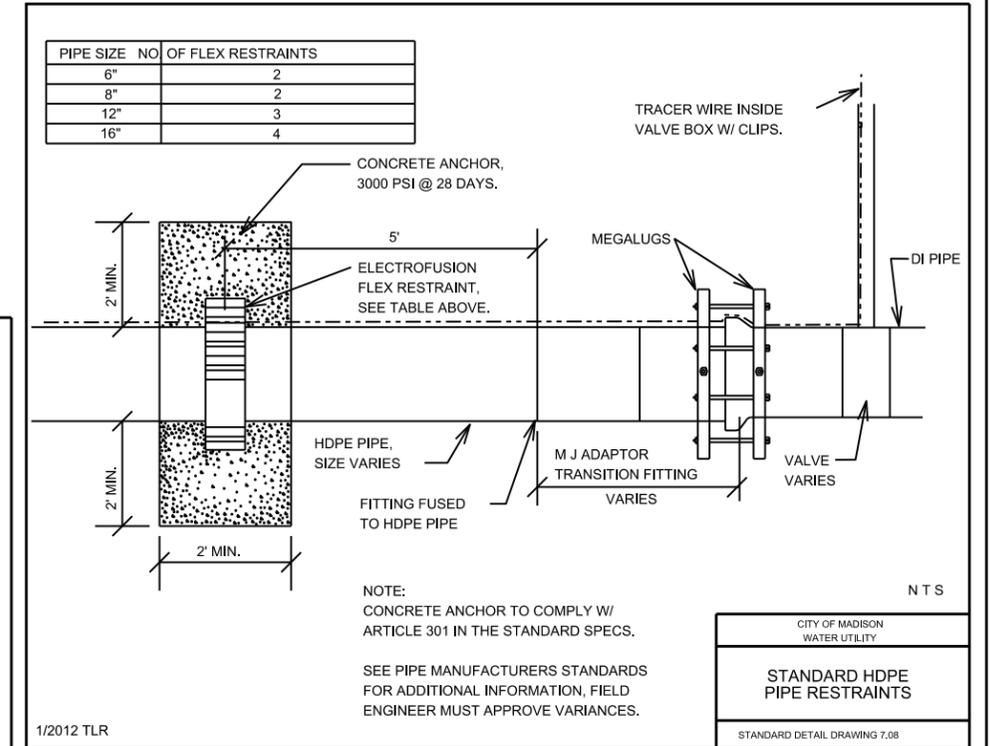
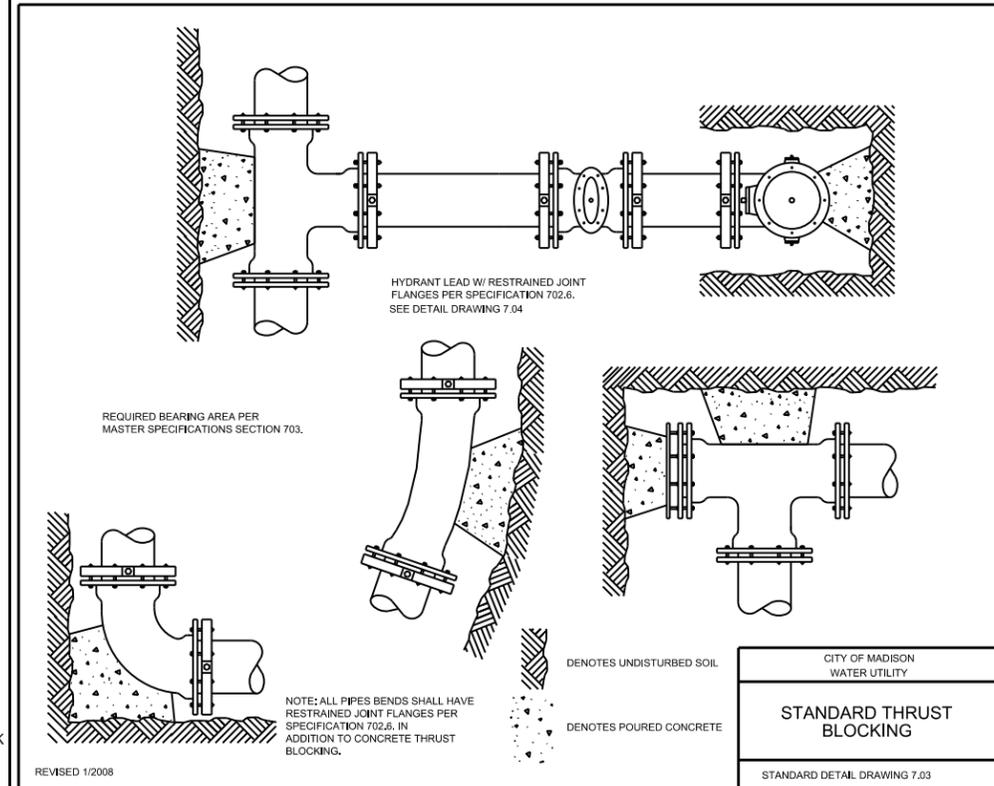
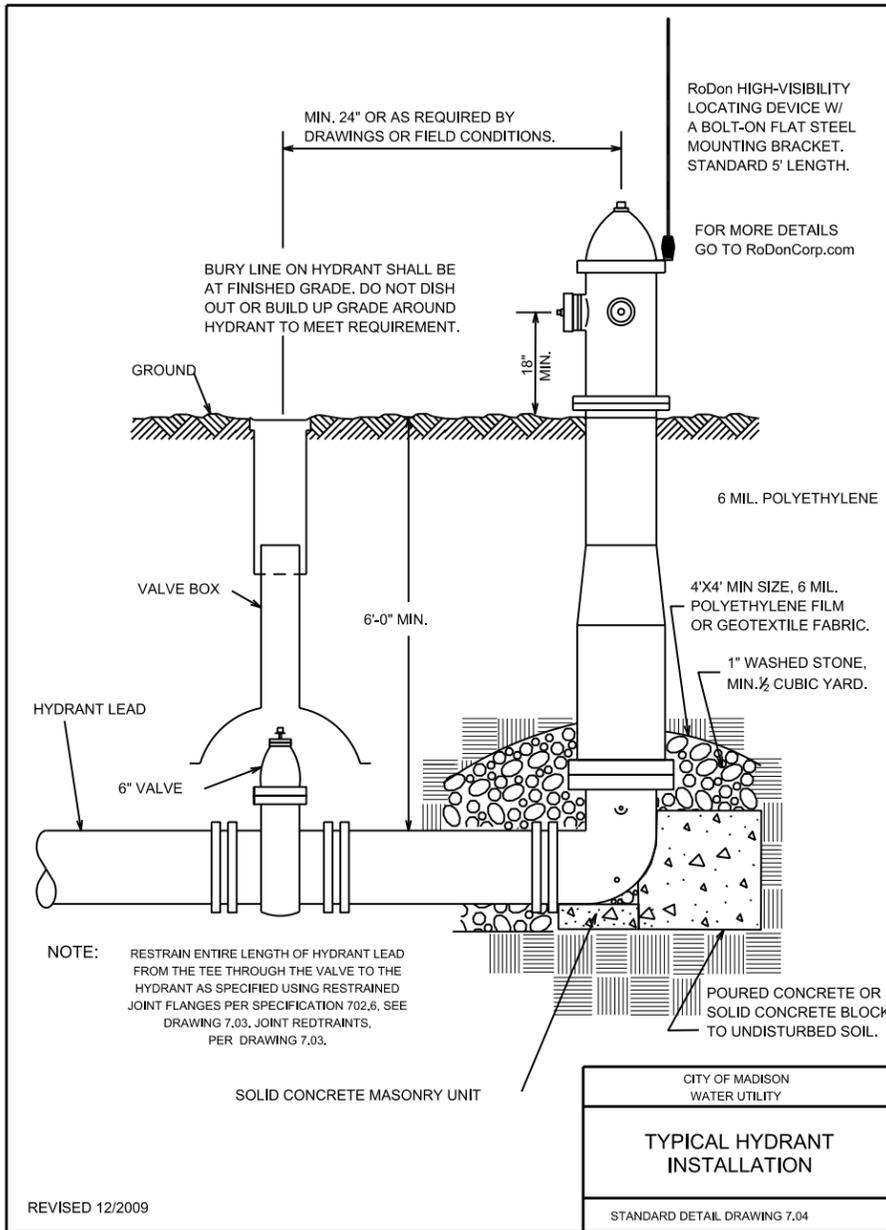
**NOTES:**

1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.
2. WHEN POSSIBLE THE SILT FENCE SHOULD BE CONSTRUCTED IN AN ARC OR HORSESHOE SHAPE WITH THE ENDS POINTING UP-SLOPE TO MAXIMIZE BOTH STRENGTH AND EFFECTIVENESS.
3. EXCAVATE A TRENCH A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
4. GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 3/4" OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED.



**ANCHOR SLOT**  
 AT BEGINNING OF EROSION MAT  
 EXTRA STAPLE AT END ONLY  
 (SEED AND SOD)

PLOT SCALE: \_\_\_\_\_ PLOT NAME: \_\_\_\_\_ REV. DATE: \_\_\_\_\_ ORIGINATOR: CITY OF MADISON - STREETS DIVISION



PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

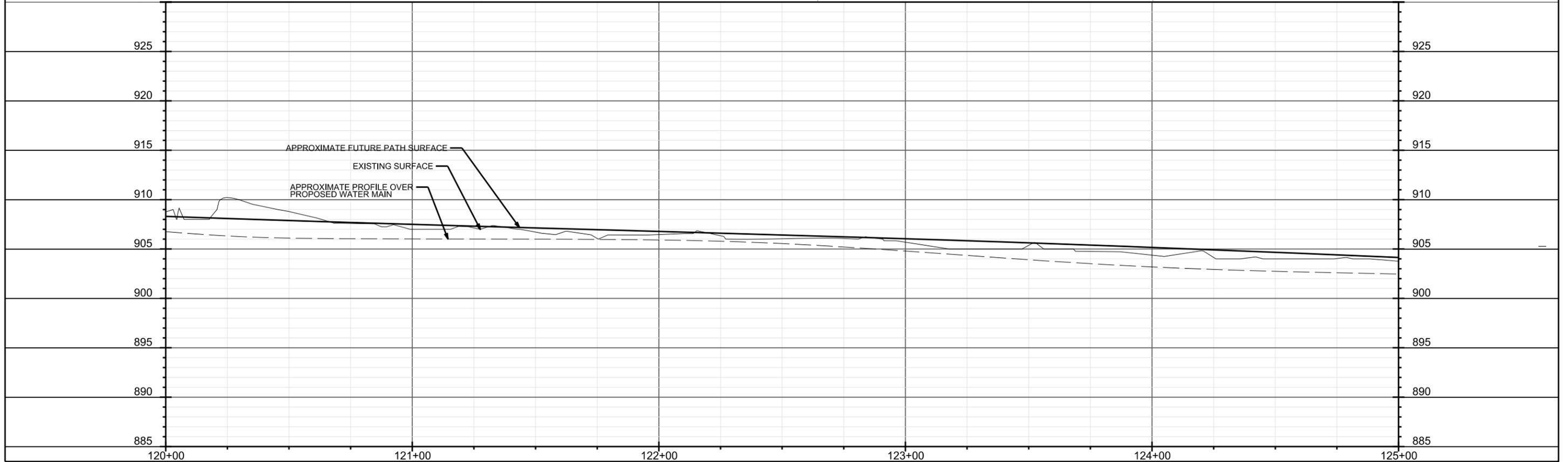
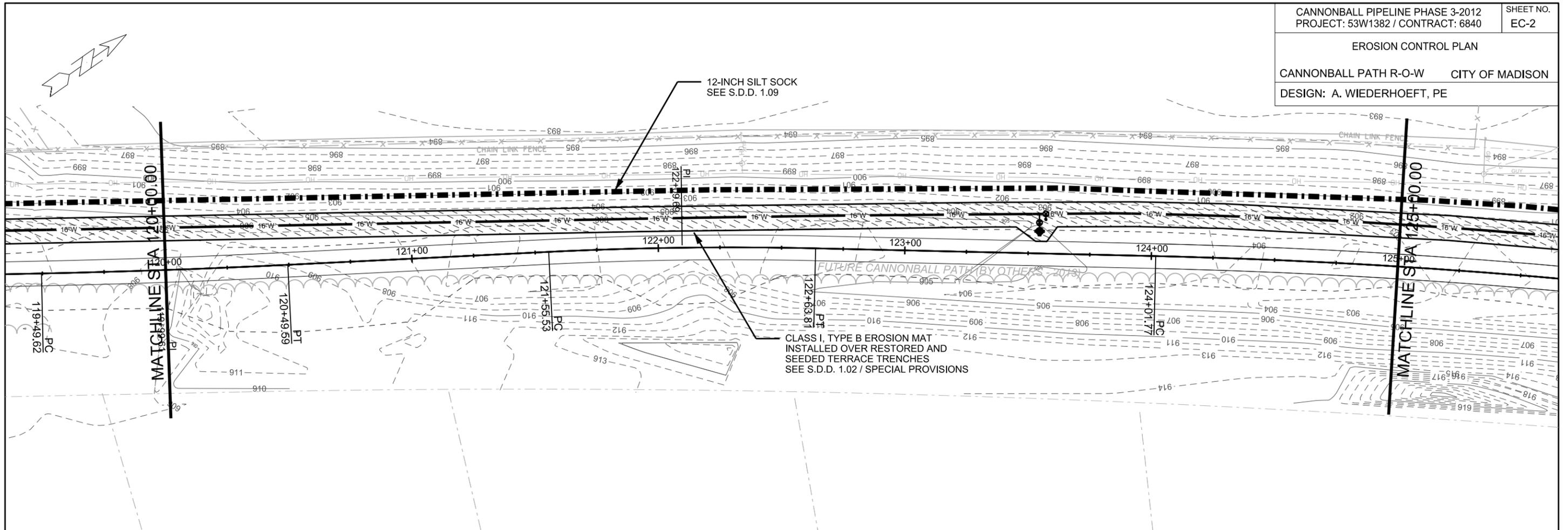
REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



EROSION CONTROL PLAN

CANNONBALL PATH R-O-W CITY OF MADISON  
DESIGN: A. WIEDERHOEFT, PE

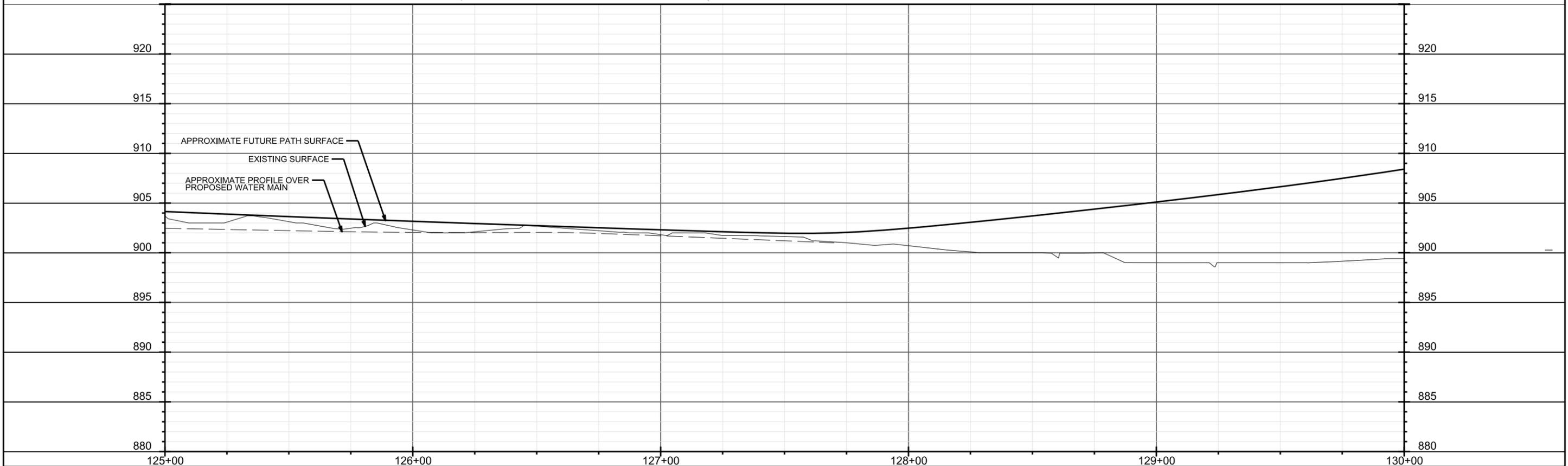
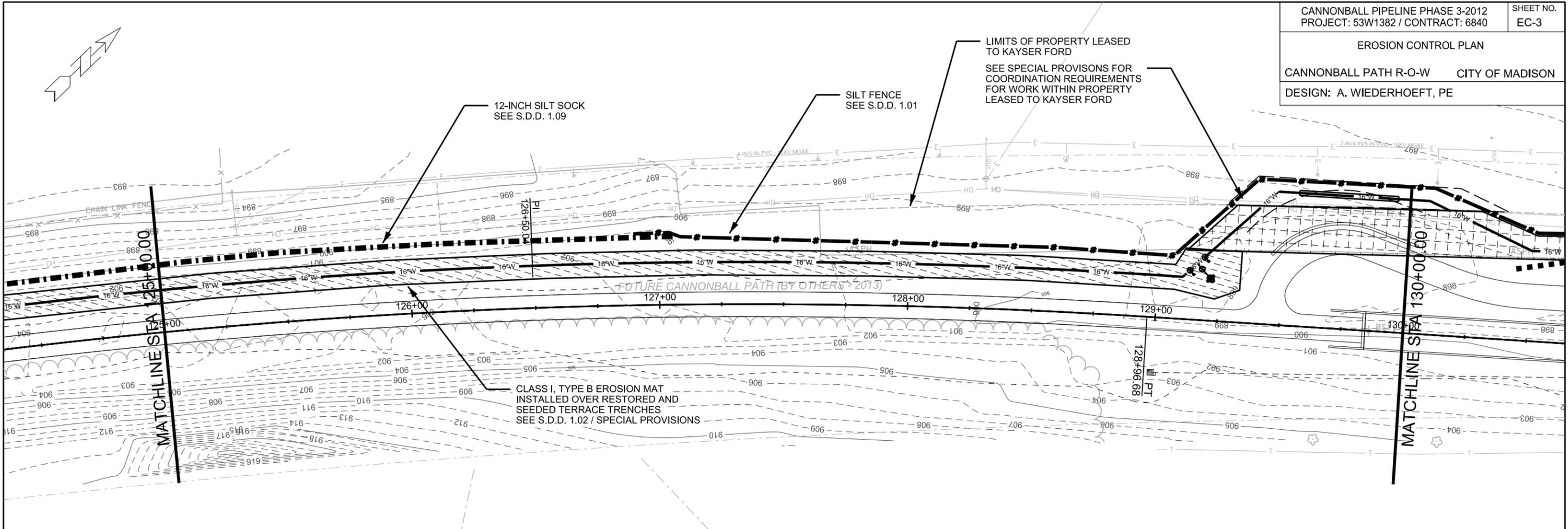


PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

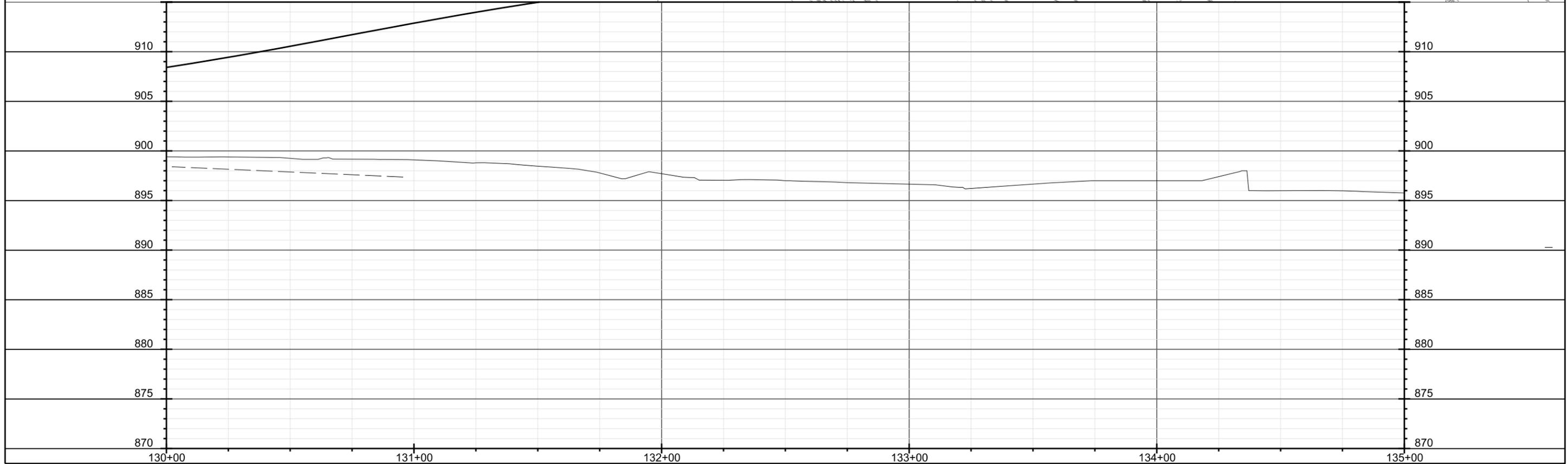
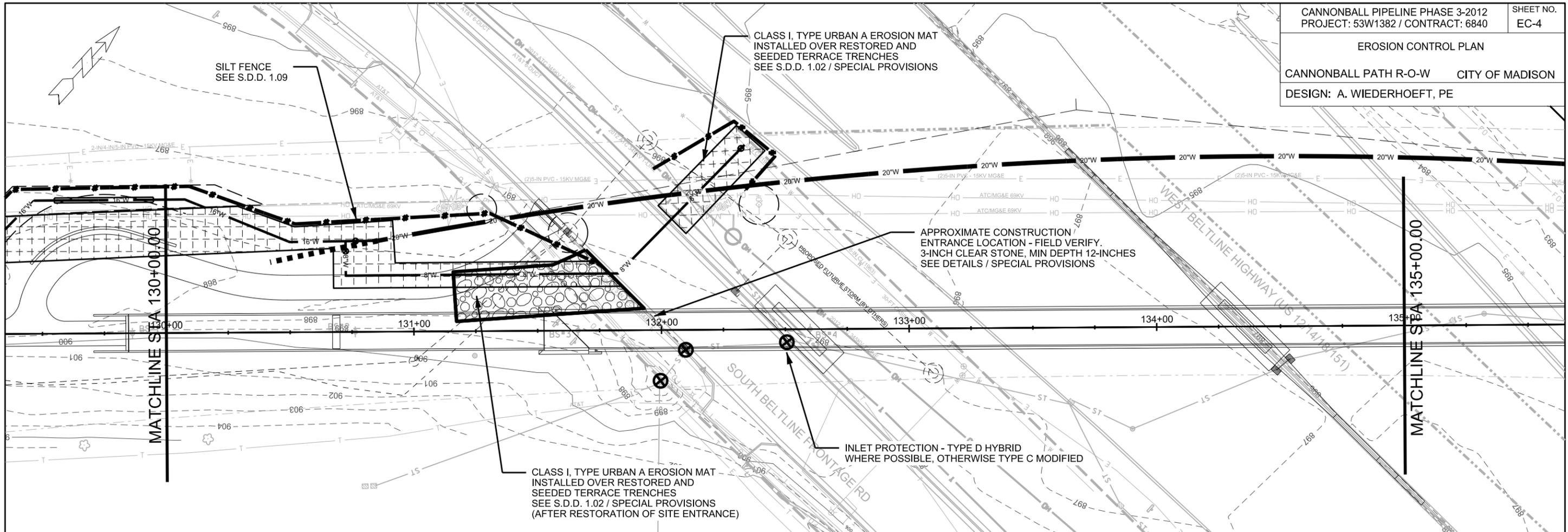


PLOT SCALE: \_\_\_\_\_

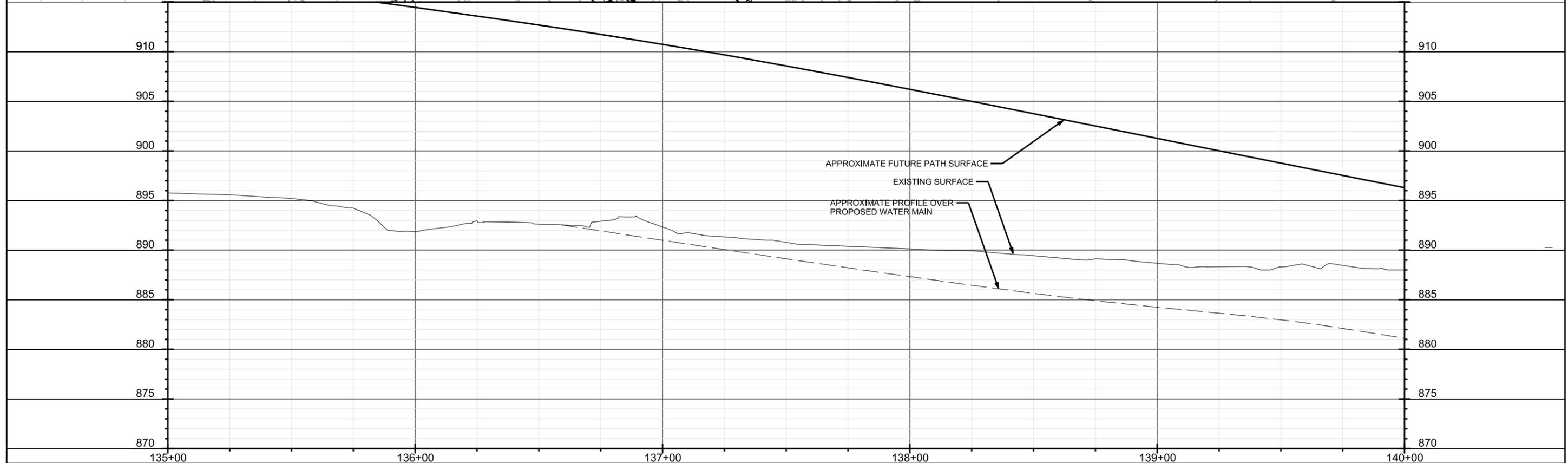
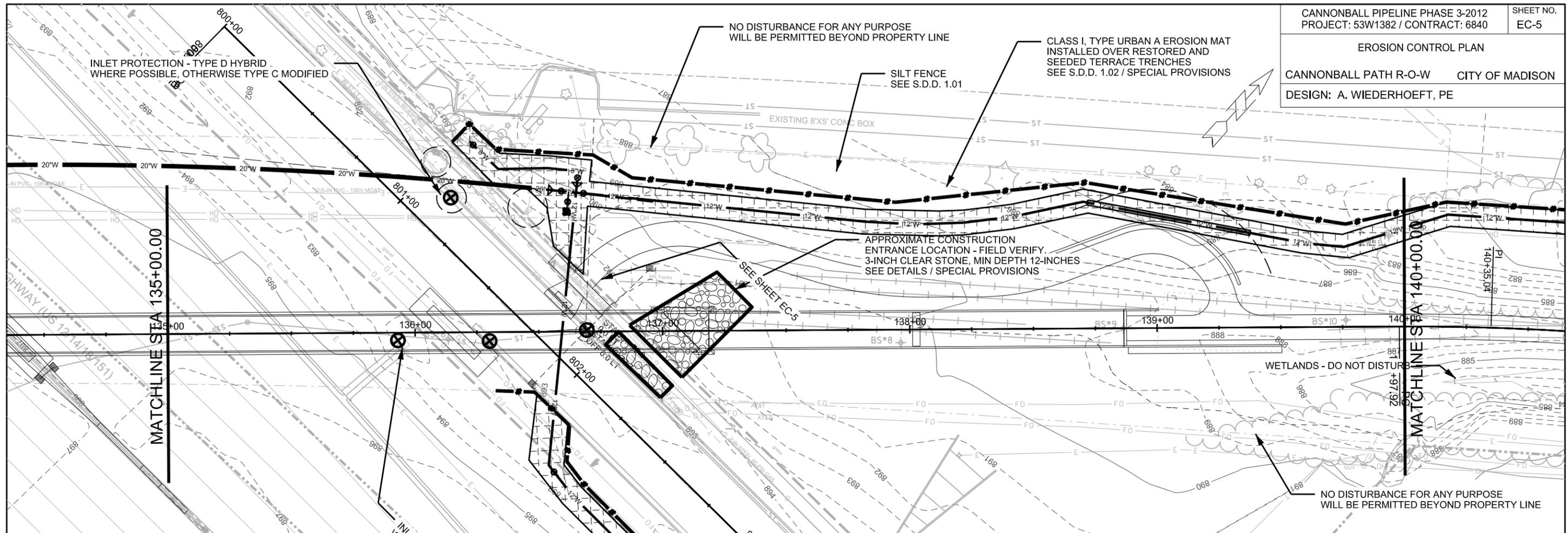
PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: \_\_\_\_\_  
 PLOT NAME: \_\_\_\_\_  
 REV. DATE: \_\_\_\_\_  
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: \_\_\_\_\_

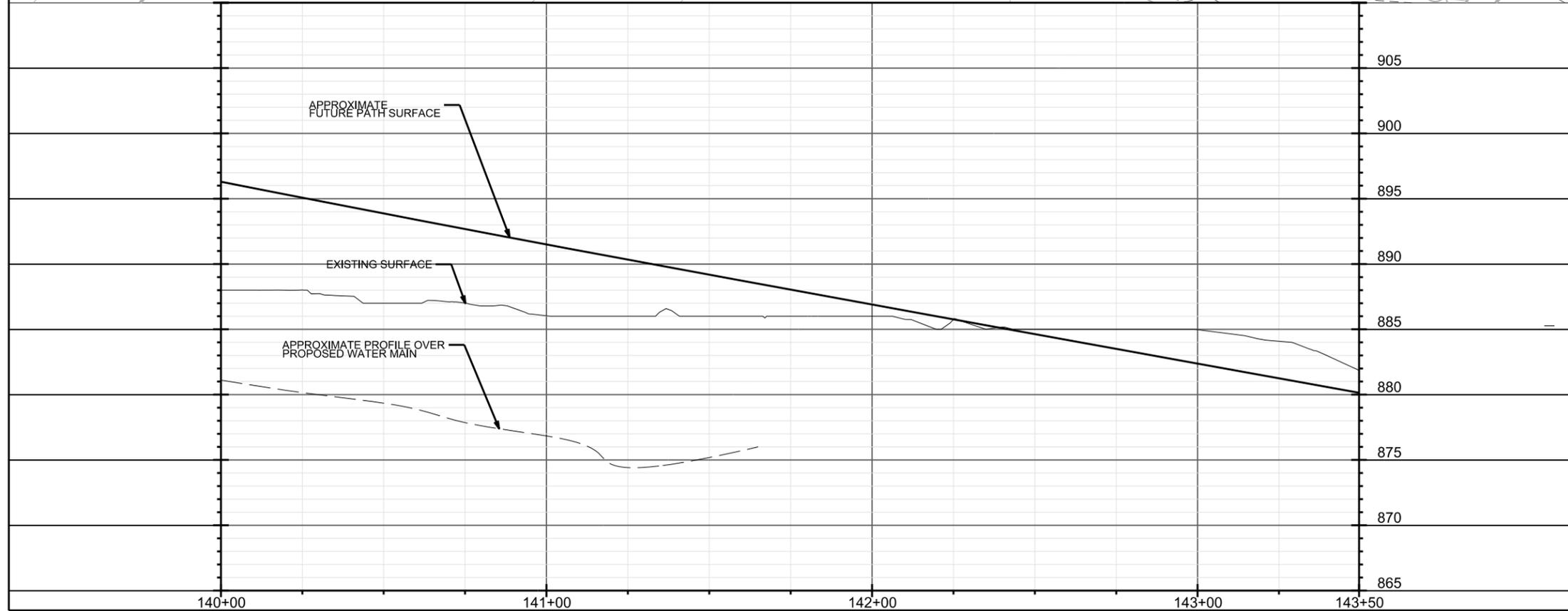
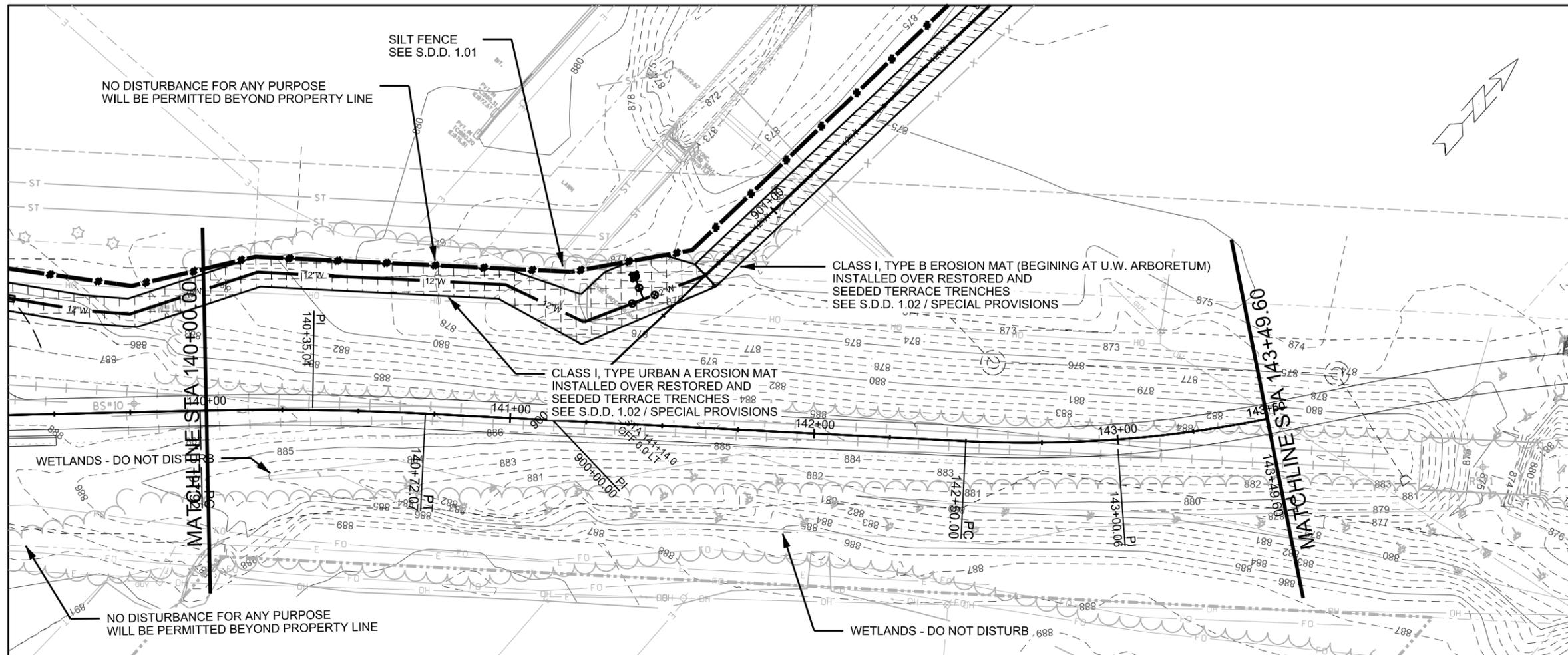
PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL PLAN

CANNONBALL PATH R-O-W CITY OF MADISON  
 DESIGN: A. WIEDERHOEFT, PE



PLOT SCALE:

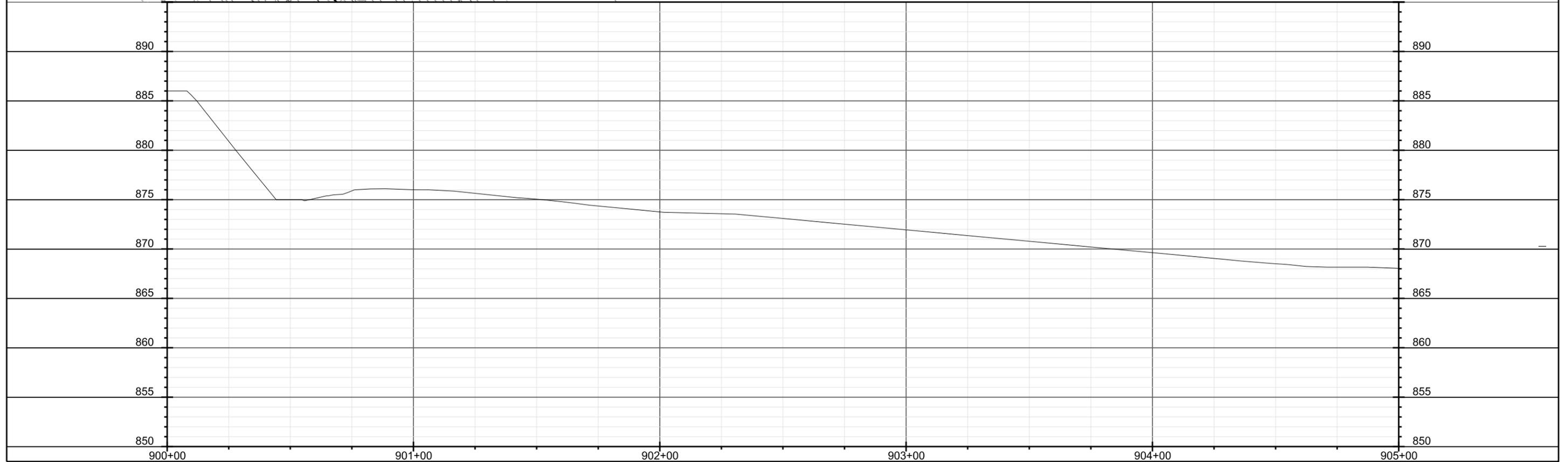
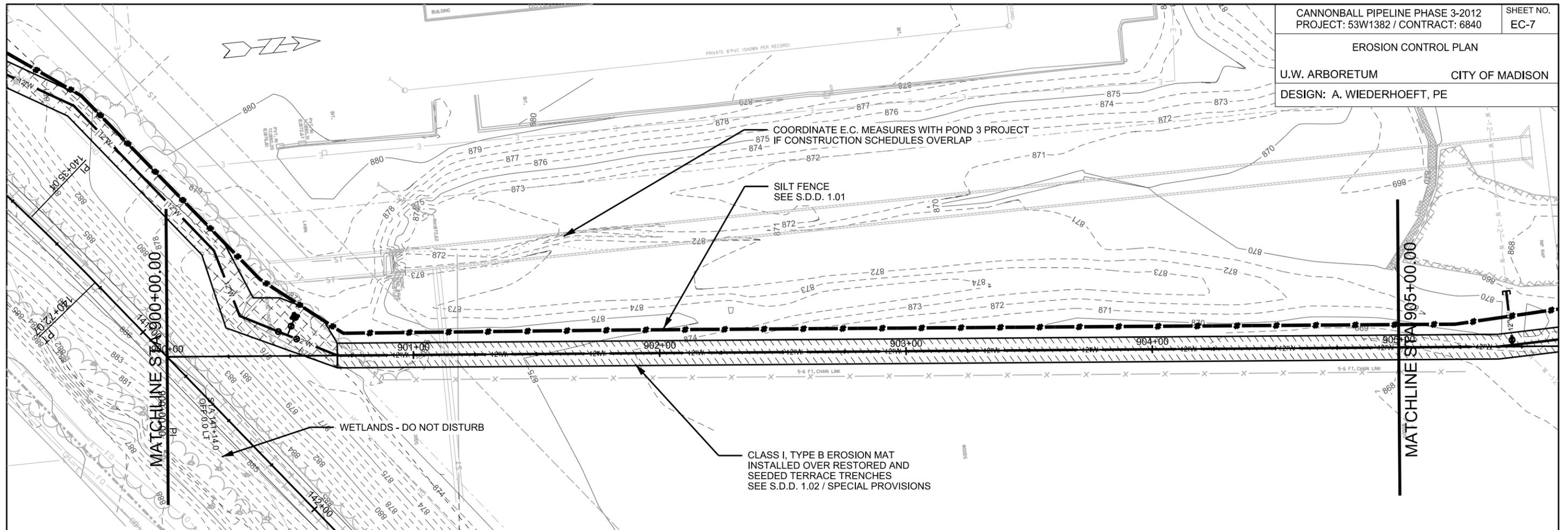
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL PLAN

U.W. ARBORETUM CITY OF MADISON  
 DESIGN: A. WIEDERHOEFT, PE



PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

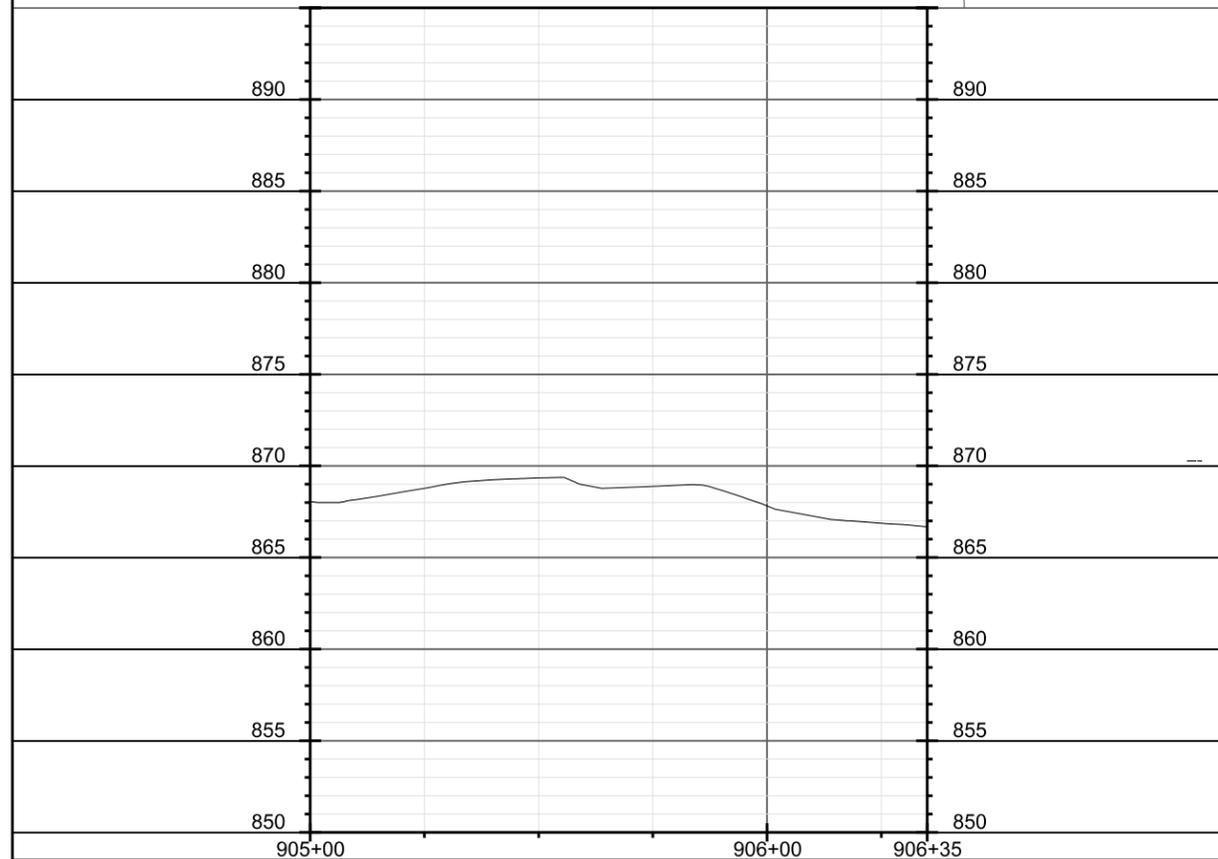
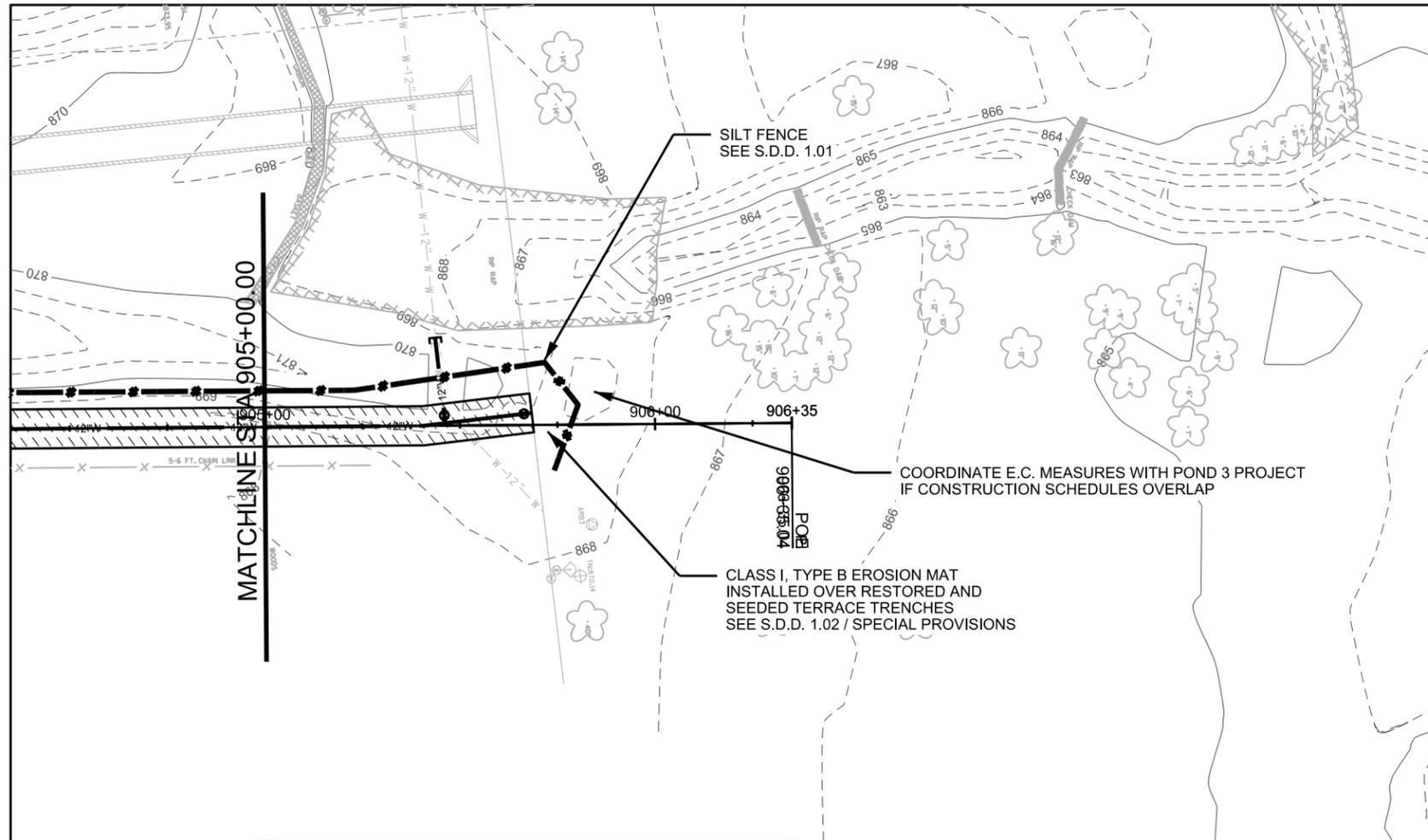
REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL PLAN

U.W. ARBORETUM CITY OF MADISON

DESIGN: A. WIEDERHOEFT, PE



PLOT SCALE: \_\_\_\_\_

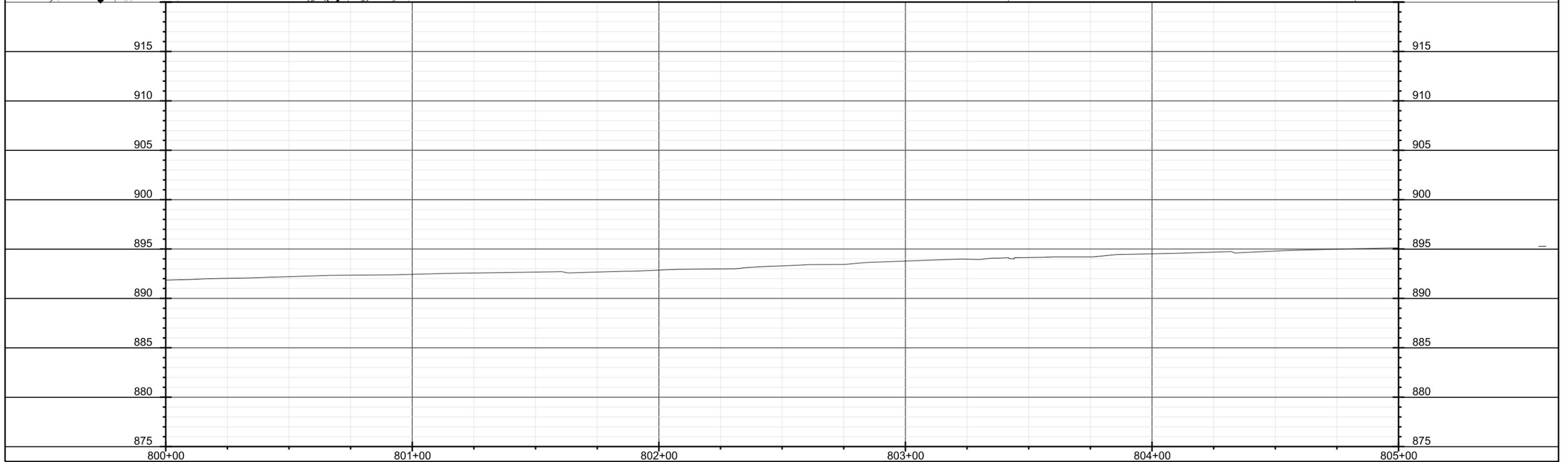
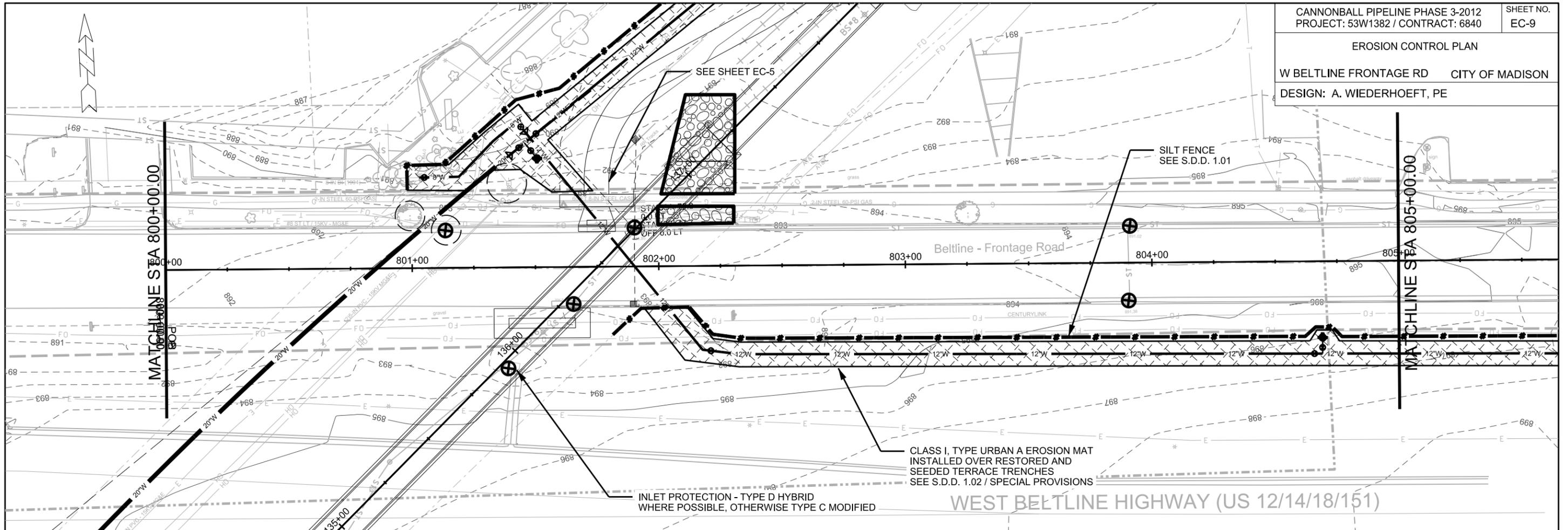
PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL PLAN

W BELTLINE FRONTAGE RD CITY OF MADISON  
 DESIGN: A. WIEDERHOEFT, PE

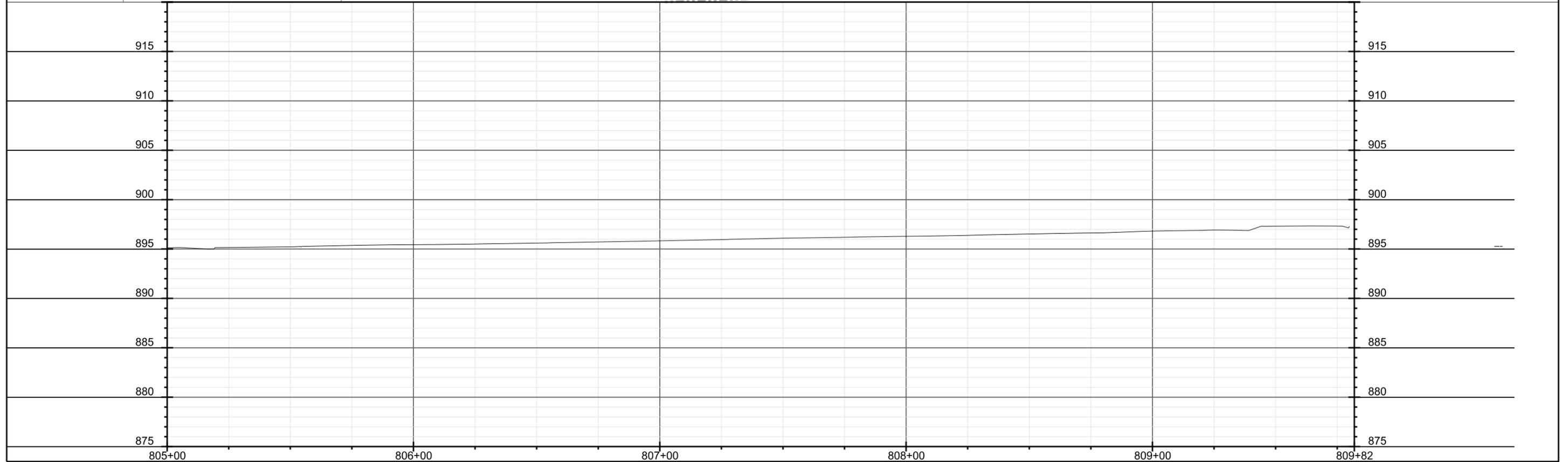
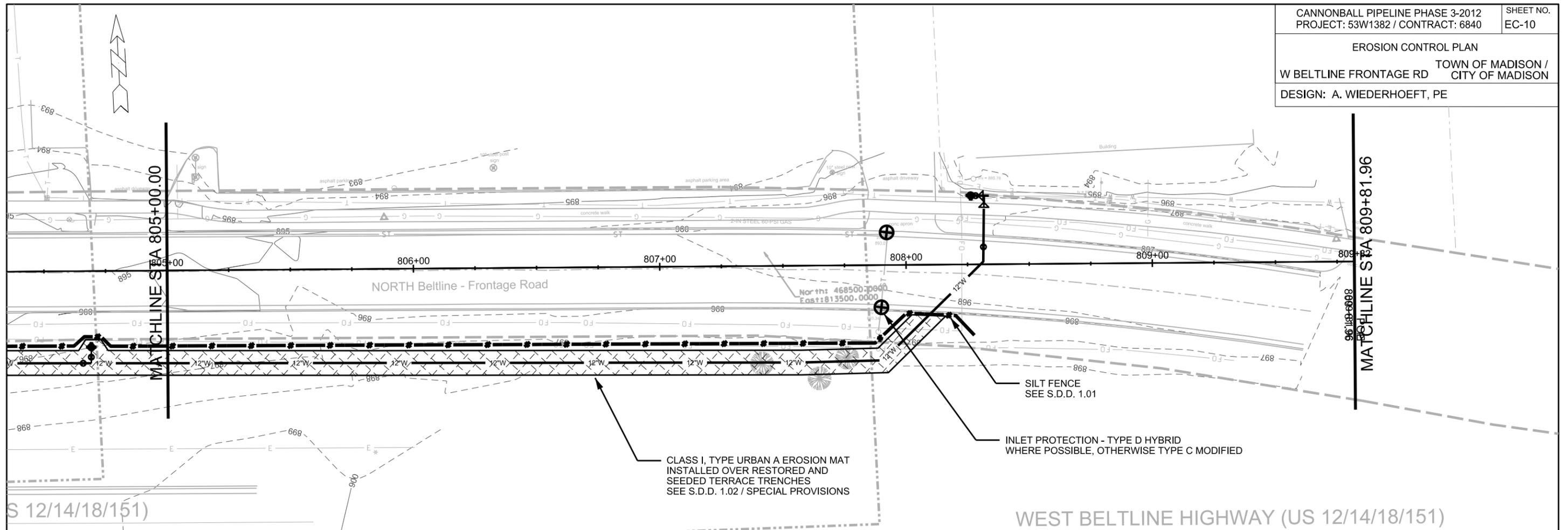


PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

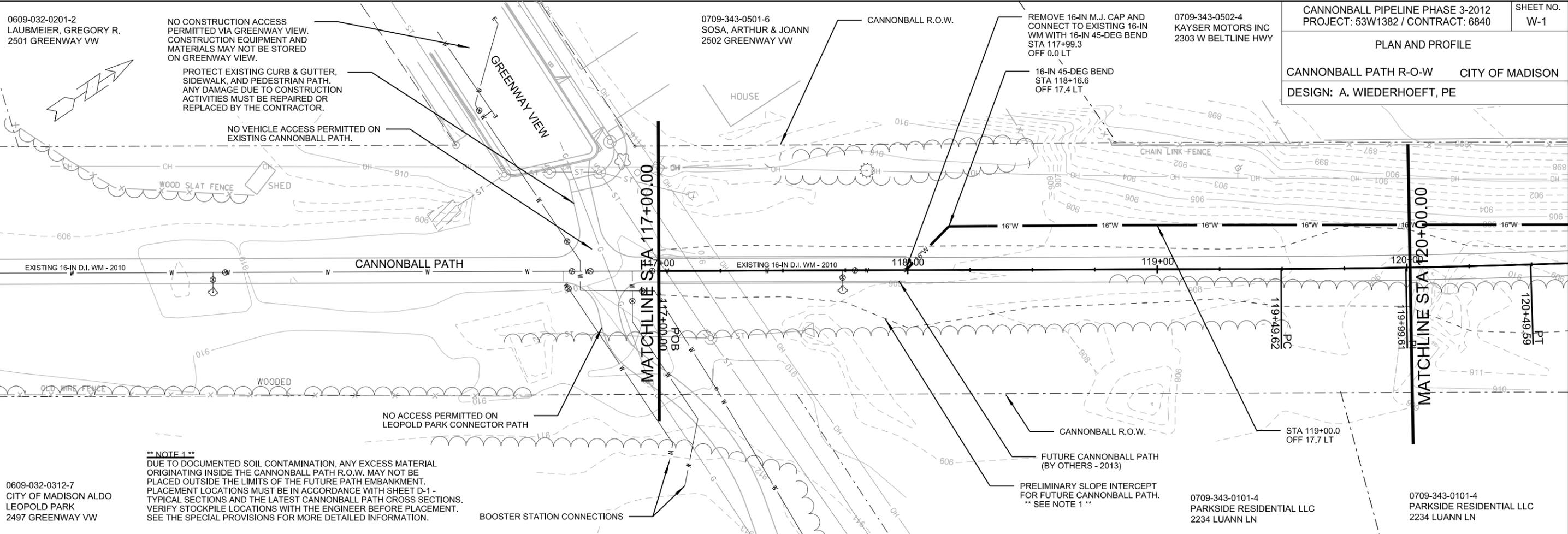


PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CANNONBALL PIPELINE PHASE 3-2012  
 PROJECT: 53W1382 / CONTRACT: 6840  
 SHEET NO. W-1  
 PLAN AND PROFILE  
 CANNONBALL PATH R-O-W CITY OF MADISON  
 DESIGN: A. WIEDERHOEFT, PE

0609-032-0201-2  
 LAUBMEIER, GREGORY R.  
 2501 GREENWAY VW

NO CONSTRUCTION ACCESS PERMITTED VIA GREENWAY VIEW. CONSTRUCTION EQUIPMENT AND MATERIALS MAY NOT BE STORED ON GREENWAY VIEW.

PROTECT EXISTING CURB & GUTTER, SIDEWALK, AND PEDESTRIAN PATH. ANY DAMAGE DUE TO CONSTRUCTION ACTIVITIES MUST BE REPAIRED OR REPLACED BY THE CONTRACTOR.

NO VEHICLE ACCESS PERMITTED ON EXISTING CANNONBALL PATH.

0709-343-0501-6  
 SOSA, ARTHUR & JOANN  
 2502 GREENWAY VW

REMOVE 16-IN M.J. CAP AND CONNECT TO EXISTING 16-IN WM WITH 16-IN 45-DEG BEND STA 117+99.3 OFF 0.0 LT

0709-343-0502-4  
 KAYSER MOTORS INC  
 2303 W BELTLINE HWY

16-IN 45-DEG BEND STA 118+16.6 OFF 17.4 LT

0609-032-0312-7  
 CITY OF MADISON ALDO  
 LEOPOLD PARK  
 2497 GREENWAY VW

**\*\* NOTE 1 \*\***  
 DUE TO DOCUMENTED SOIL CONTAMINATION, ANY EXCESS MATERIAL ORIGINATING INSIDE THE CANNONBALL PATH R.O.W. MAY NOT BE PLACED OUTSIDE THE LIMITS OF THE FUTURE PATH EMBANKMENT. PLACEMENT LOCATIONS MUST BE IN ACCORDANCE WITH SHEET D-1 - TYPICAL SECTIONS AND THE LATEST CANNONBALL PATH CROSS SECTIONS. VERIFY STOCKPILE LOCATIONS WITH THE ENGINEER BEFORE PLACEMENT. SEE THE SPECIAL PROVISIONS FOR MORE DETAILED INFORMATION.

BOOSTER STATION CONNECTIONS

PRELIMINARY SLOPE INTERCEPT FOR FUTURE CANNONBALL PATH. \*\* SEE NOTE 1 \*\*

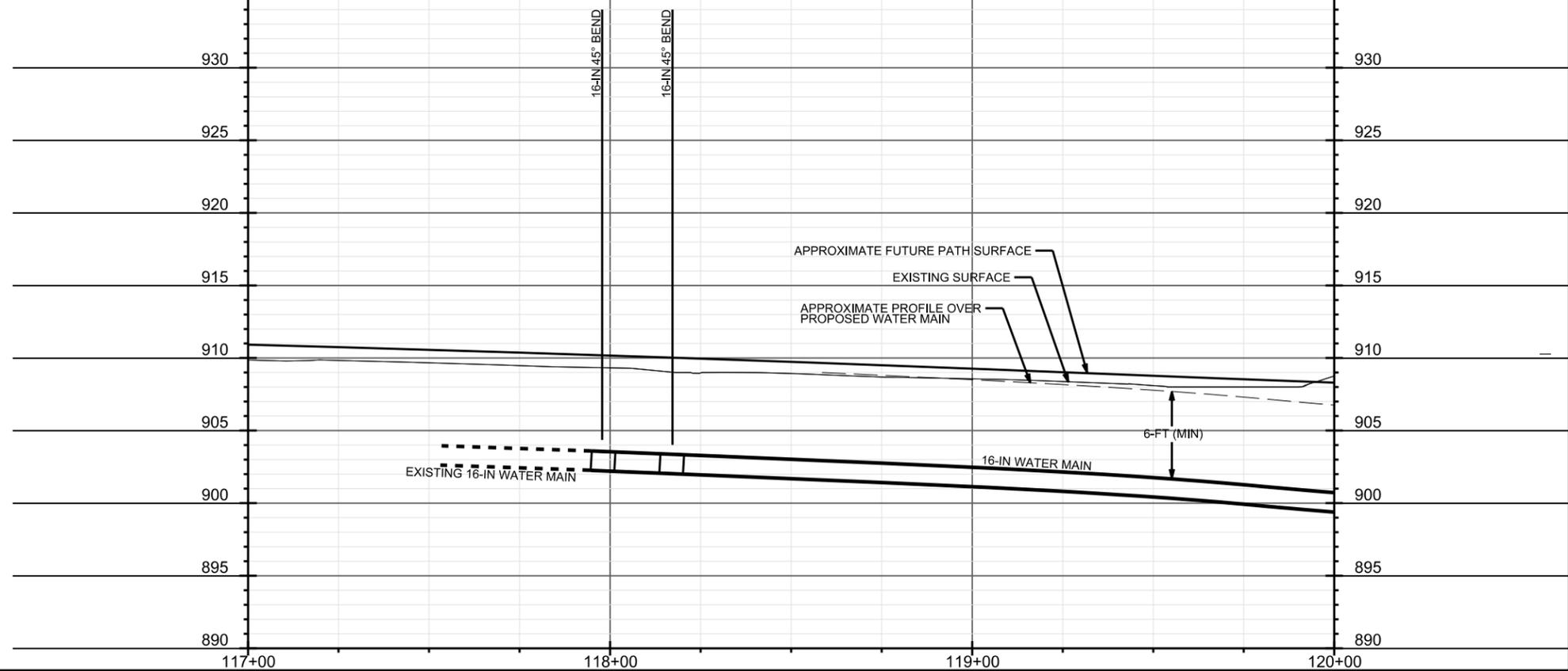
0709-343-0101-4  
 PARKSIDE RESIDENTIAL LLC  
 2234 LUANN LN

0709-343-0101-4  
 PARKSIDE RESIDENTIAL LLC  
 2234 LUANN LN

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN  
 CALL DIGGERS HOTLINE TOLL FREE  
 811 OR 1-800-242-8511  
 FAX-A-LOCATE 1-800-338-3860  
 TDD (FOR HEARING IMPAIRED) 1-800-542-2289  
 WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.



DISCLAIMER NOTE:  
 UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

CANNONBALL PATH R-O-W CITY OF MADISON

DESIGN: A. WIEDERHOEFT, PE

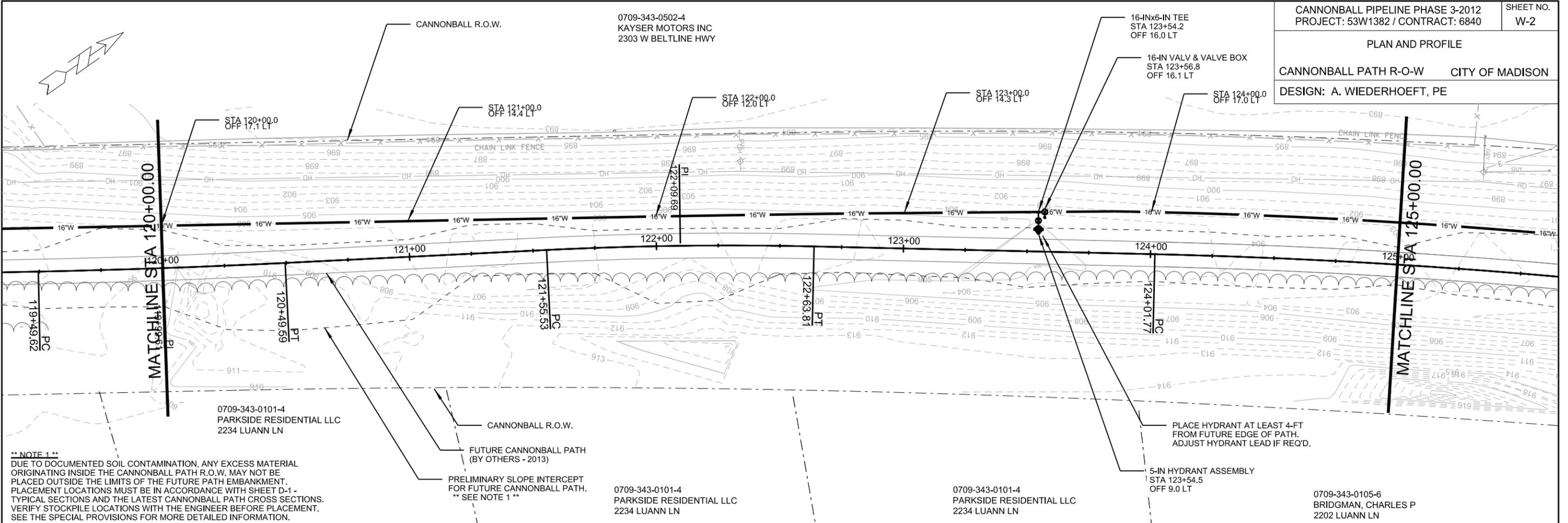
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 KAYSER MOTORS INC  
 2303 W BELTLINE HWY

0709-343-0101-4  
 PARKSIDE RESIDENTIAL LLC  
 2234 LUANN LN

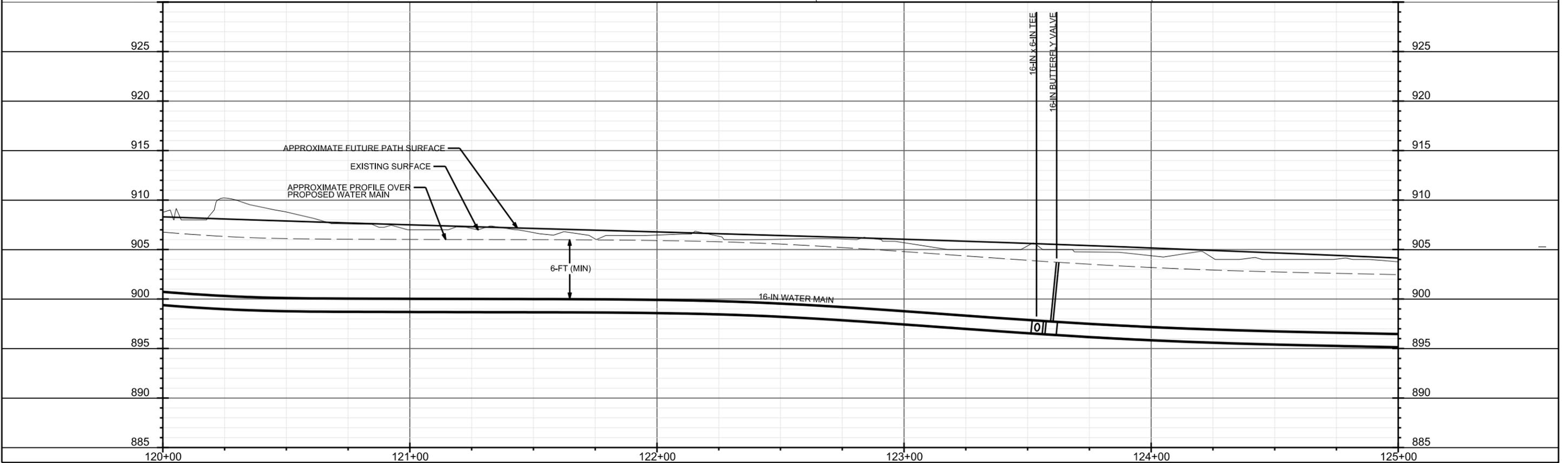
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 PARKSIDE RESIDENTIAL LLC  
 2234 LUANN LN

0709-343-0101-4  
 PARKSIDE RESIDENTIAL LLC  
 2234 LUANN LN

0709-343-0105-6  
 BRIDGMAN, CHARLES P  
 2202 LUANN LN



**\*\* NOTE 1 \*\***  
 DUE TO DOCUMENTED SOIL CONTAMINATION, ANY EXCESS MATERIAL ORIGINATING INSIDE THE CANNONBALL PATH R.O.W. MAY NOT BE PLACED OUTSIDE THE LIMITS OF THE FUTURE PATH EMBANKMENT. PLACEMENT LOCATIONS MUST BE IN ACCORDANCE WITH SHEET D-1 - TYPICAL SECTIONS AND THE LATEST CANNONBALL PATH CROSS SECTIONS. VERIFY STOCKPILE LOCATIONS WITH THE ENGINEER BEFORE PLACEMENT. SEE THE SPECIAL PROVISIONS FOR MORE DETAILED INFORMATION.



PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

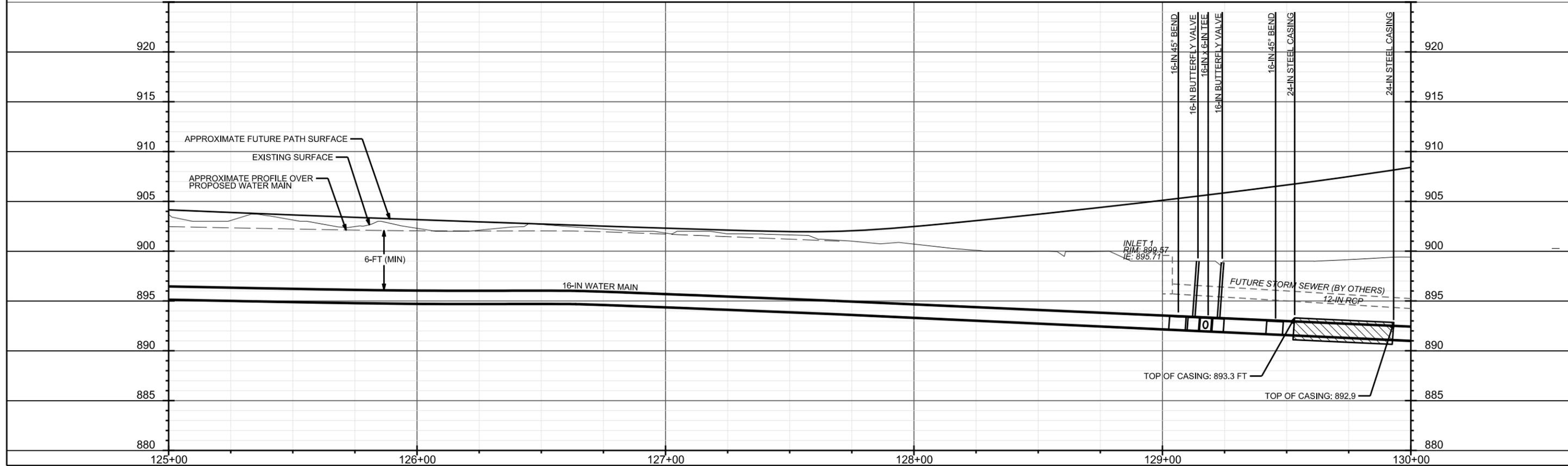
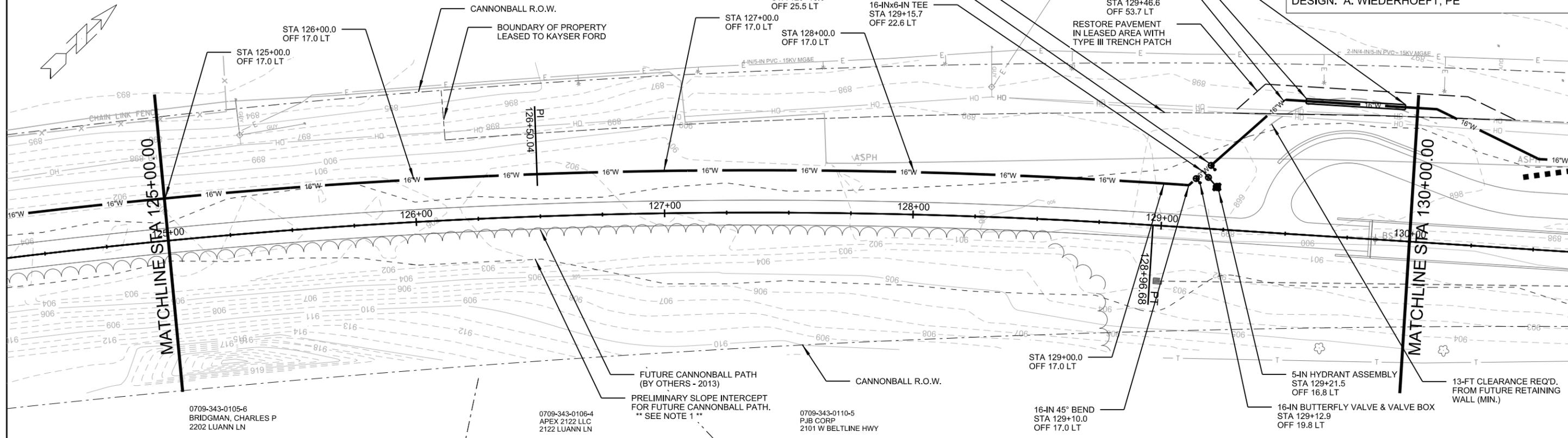
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

**\*\* NOTE 1 \*\***  
 DUE TO DOCUMENTED SOIL CONTAMINATION, ANY EXCESS MATERIAL ORIGINATING INSIDE THE CANNONBALL PATH R.O.W. MAY NOT BE PLACED OUTSIDE THE LIMITS OF THE FUTURE PATH EMBANKMENT. PLACEMENT LOCATIONS MUST BE IN ACCORDANCE WITH SHEET D-1 - TYPICAL SECTIONS AND THE LATEST CANNONBALL PATH CROSS SECTIONS. VERIFY STOCKPILE LOCATIONS WITH THE ENGINEER BEFORE PLACEMENT. SEE THE SPECIAL PROVISIONS FOR MORE DETAILED INFORMATION.

0709-343-0502-4  
 KAYSER MOTORS INC  
 2303 W BELTLINE HWY

BOUNDARY OF PROPERTY LEASED TO KAYSER FORD. SEE THE SPECIAL PROVISIONS FOR NOTIFICATION / COORDINATION REQUIREMENTS PRIOR TO WORKING WITHIN THE LEASED PROPERTY. (MIN. 7-DAY NOTICE)

CANNONBALL PIPELINE PHASE 3-2012  
 PROJECT: 53W1382 / CONTRACT: 6840  
 SHEET NO. W-3  
 PLAN AND PROFILE  
 CANNONBALL PATH R-O-W CITY OF MADISON  
 DESIGN: A. WIEDERHOEFT, PE



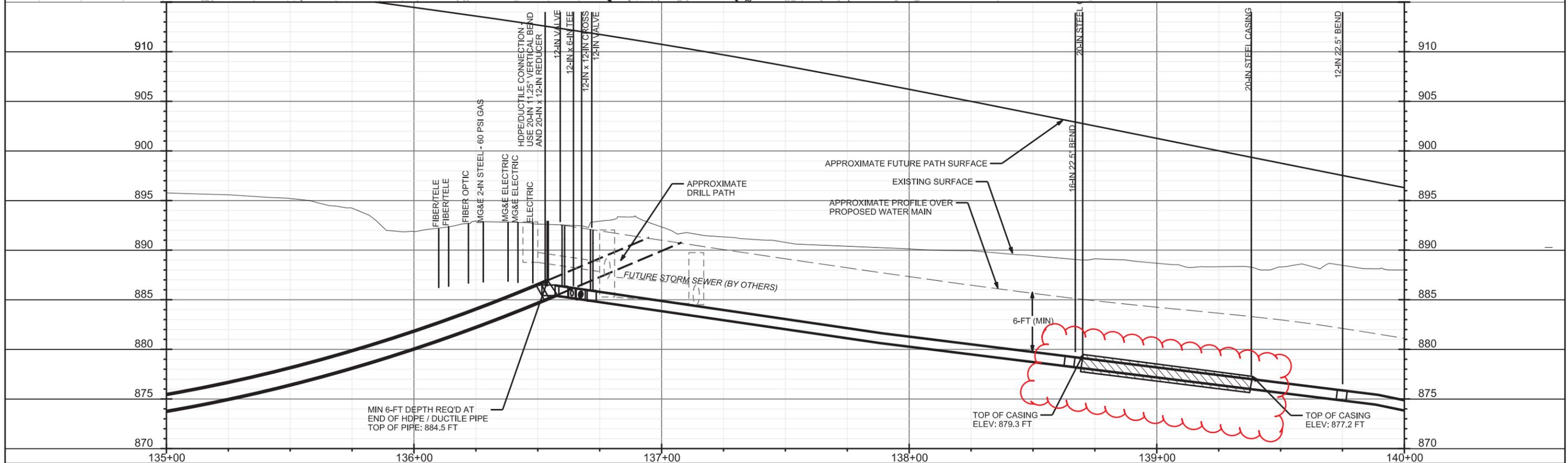
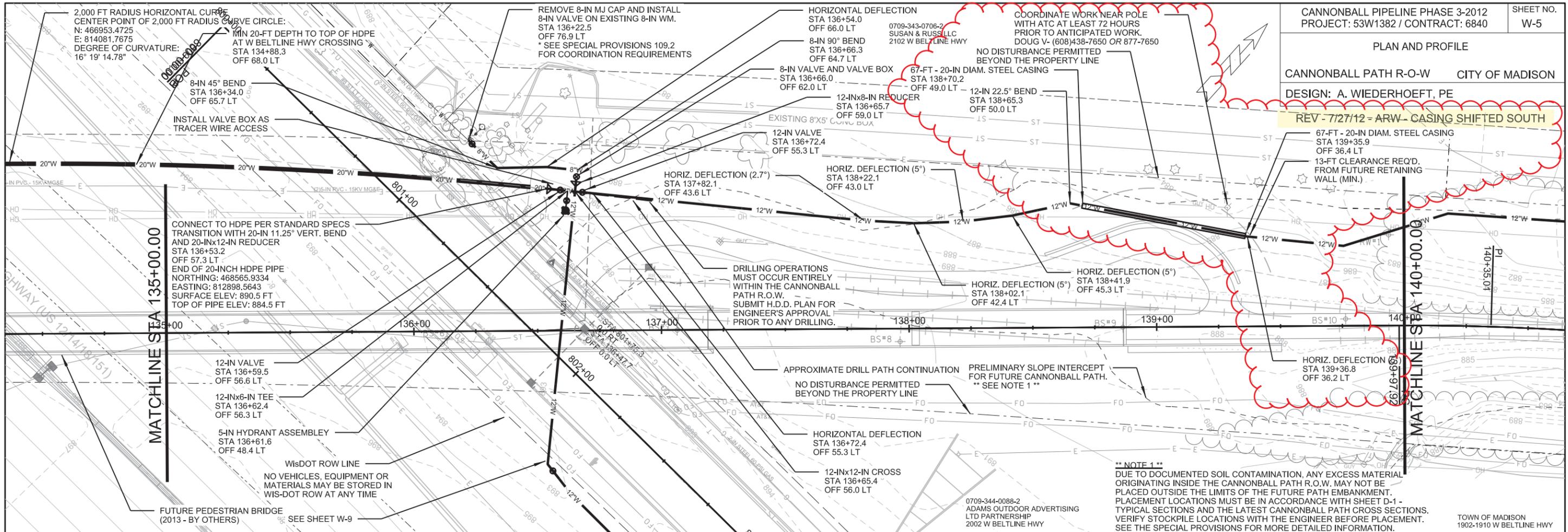


PLAN AND PROFILE

CANNONBALL PATH R-O-W CITY OF MADISON

DESIGN: A. WIEDERHOEFT, PE

REV - 7/27/12 - ARW - CASING SHIFTED SOUTH



**\*\* NOTE 1 \*\***  
DUE TO DOCUMENTED SOIL CONTAMINATION, ANY EXCESS MATERIAL ORIGINATING INSIDE THE CANNONBALL PATH R.O.W. MAY NOT BE PLACED OUTSIDE THE LIMITS OF THE FUTURE PATH EMBANKMENT. PLACEMENT LOCATIONS MUST BE IN ACCORDANCE WITH SHEET D-1 - TYPICAL SECTIONS AND THE LATEST CANNONBALL PATH CROSS SECTIONS. VERIFY STOCKPILE LOCATIONS WITH THE ENGINEER BEFORE PLACEMENT. SEE THE SPECIAL PROVISIONS FOR MORE DETAILED INFORMATION.

TOWN OF MADISON  
1902-1910 W BELTLINE HWY

PLOT SCALE: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

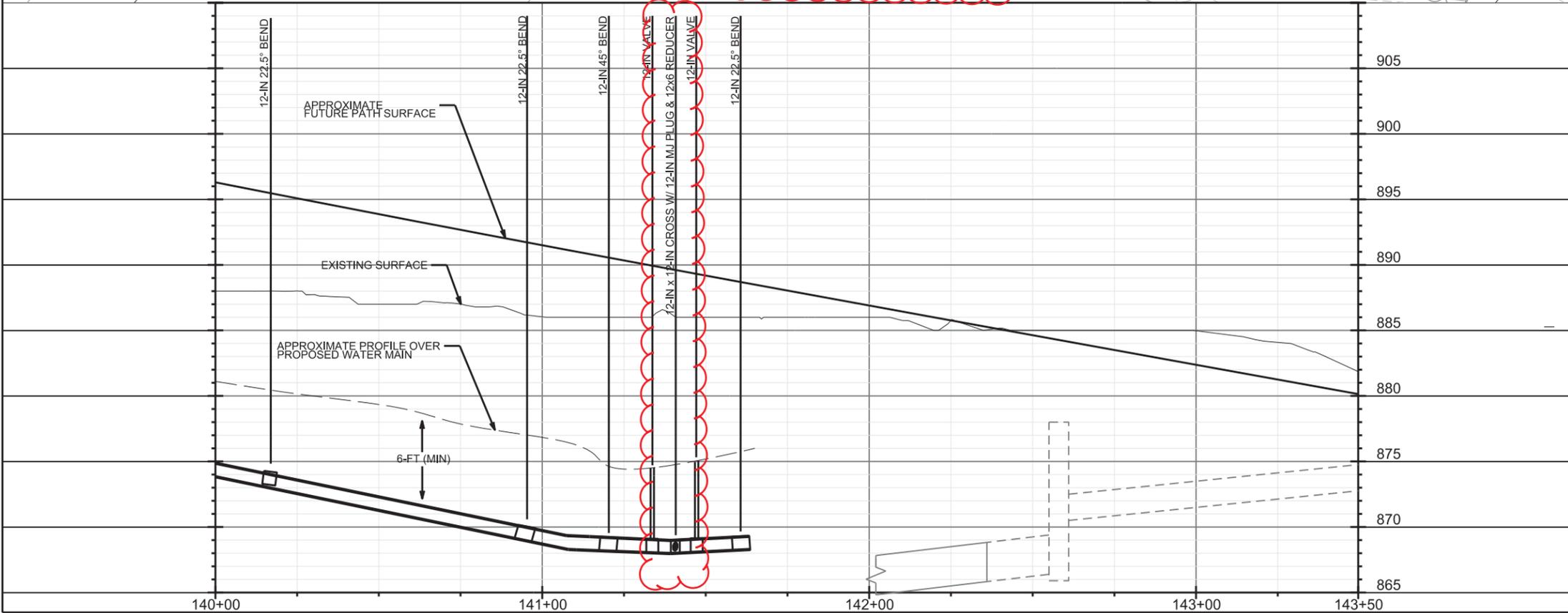
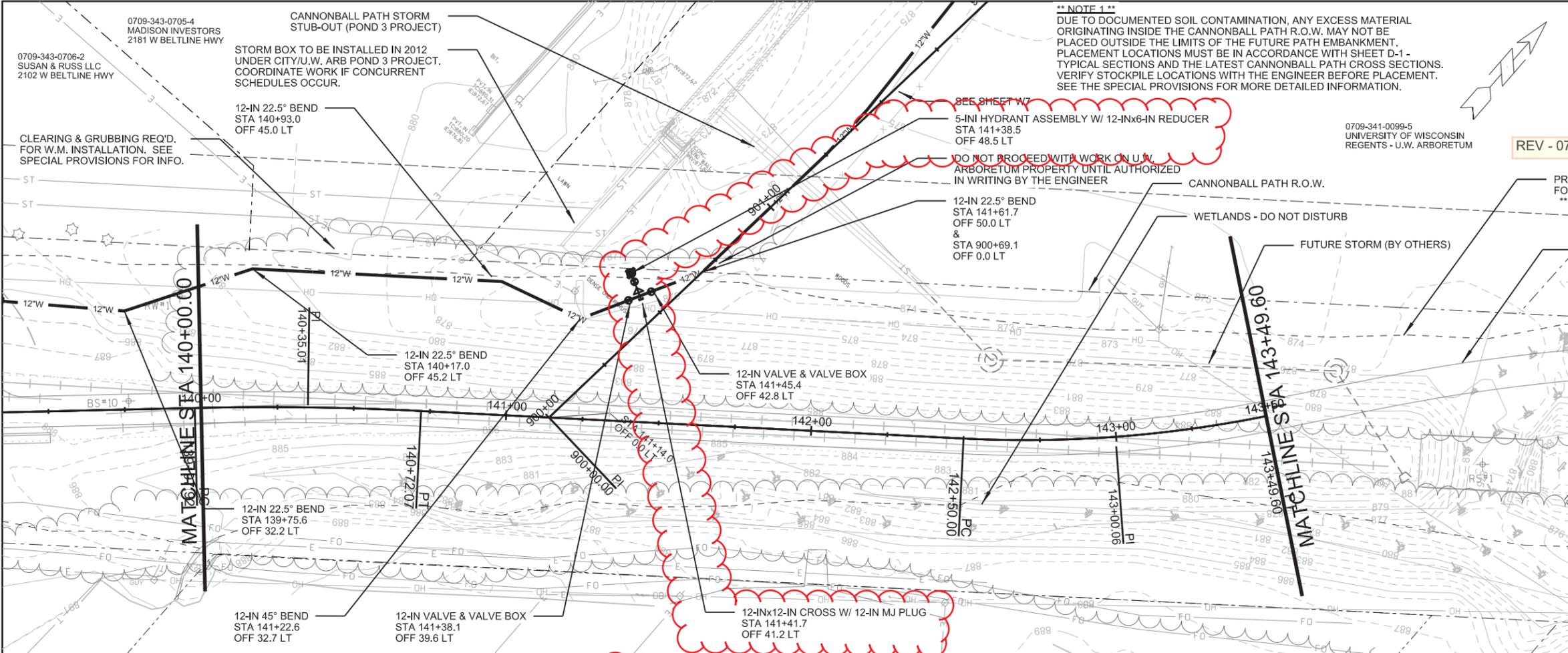
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

CANNONBALL PATH R-O-W CITY OF MADISON

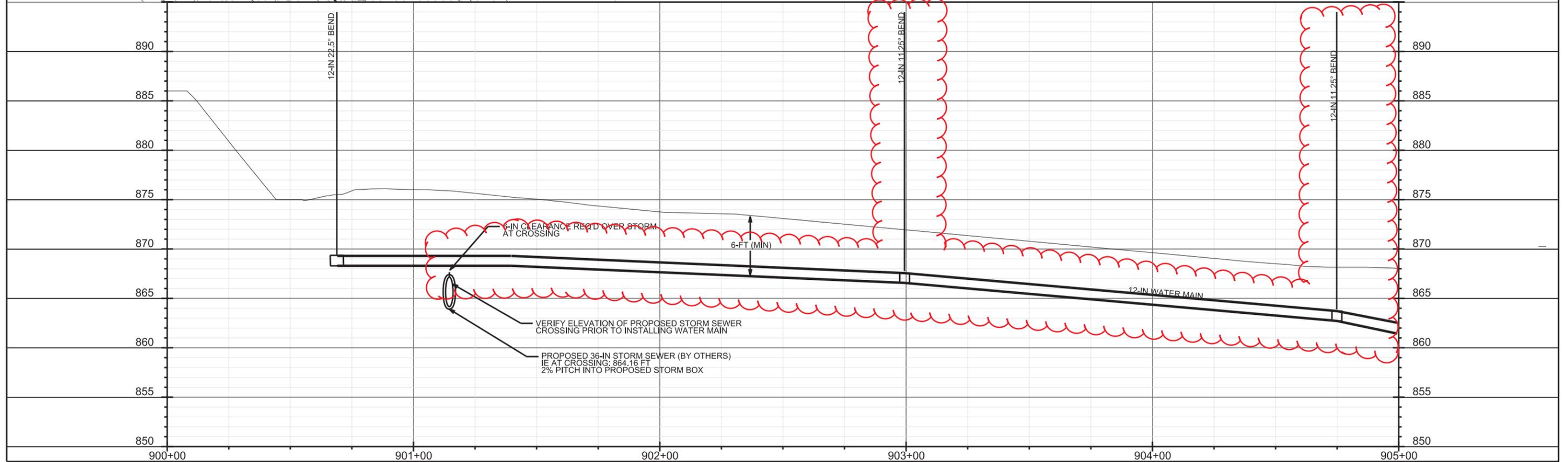
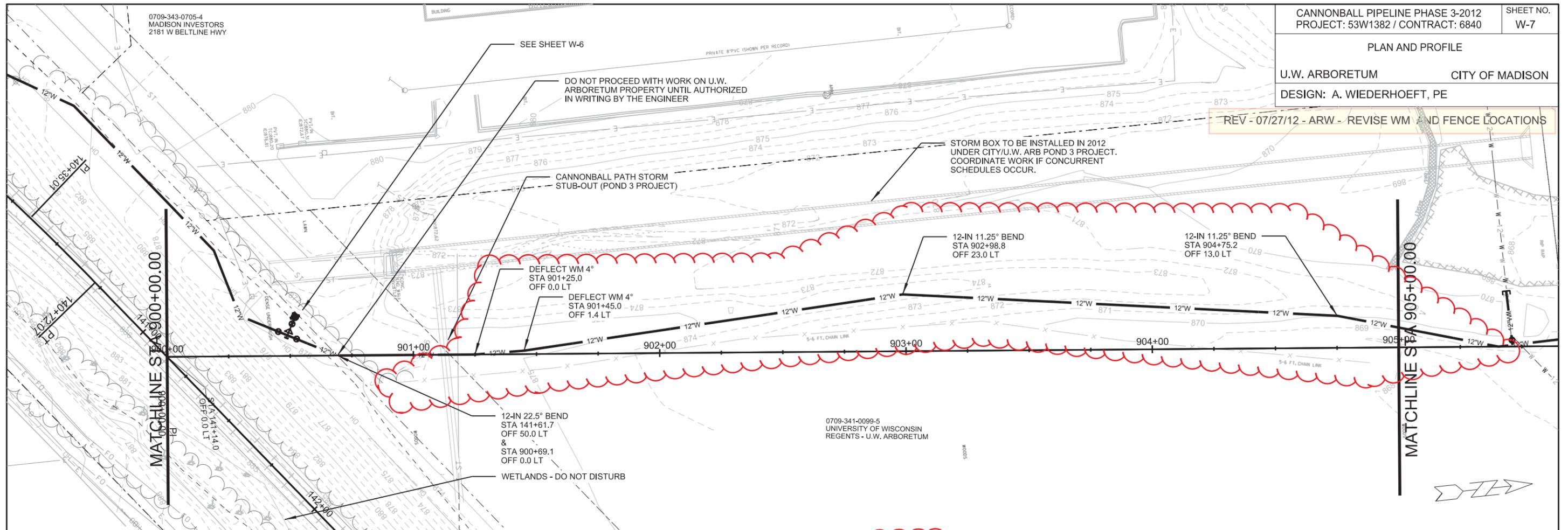
DESIGN: A. WIEDERHOEFT, PE

REV - 07/27/12 - ARW - REPLACE 12x6 TEE W/ 12x12 CROSS



PLOT SCALE: \_\_\_\_\_  
PLOT NAME: \_\_\_\_\_  
REV. DATE: \_\_\_\_\_  
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV - 07/27/12 - ARW - REVISE WM AND FENCE LOCATIONS



PLOT SCALE: \_\_\_\_\_

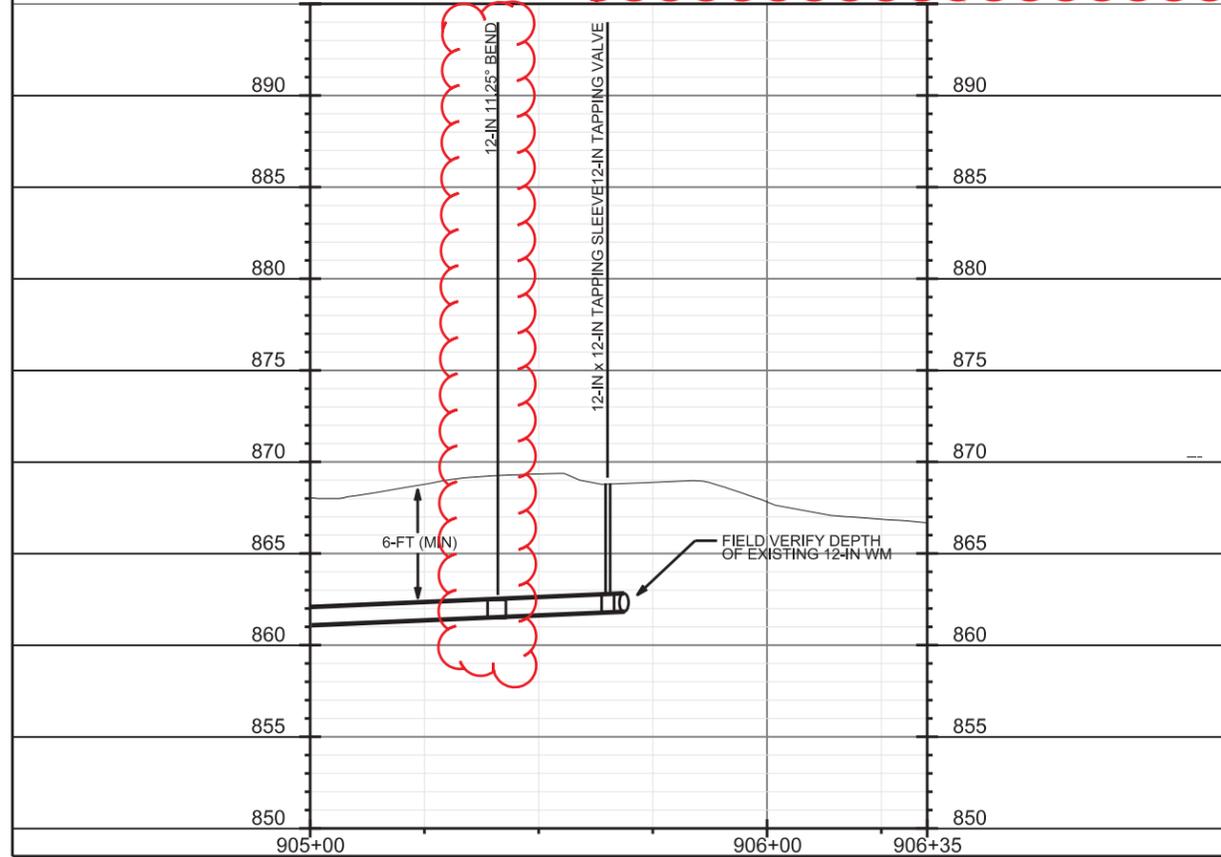
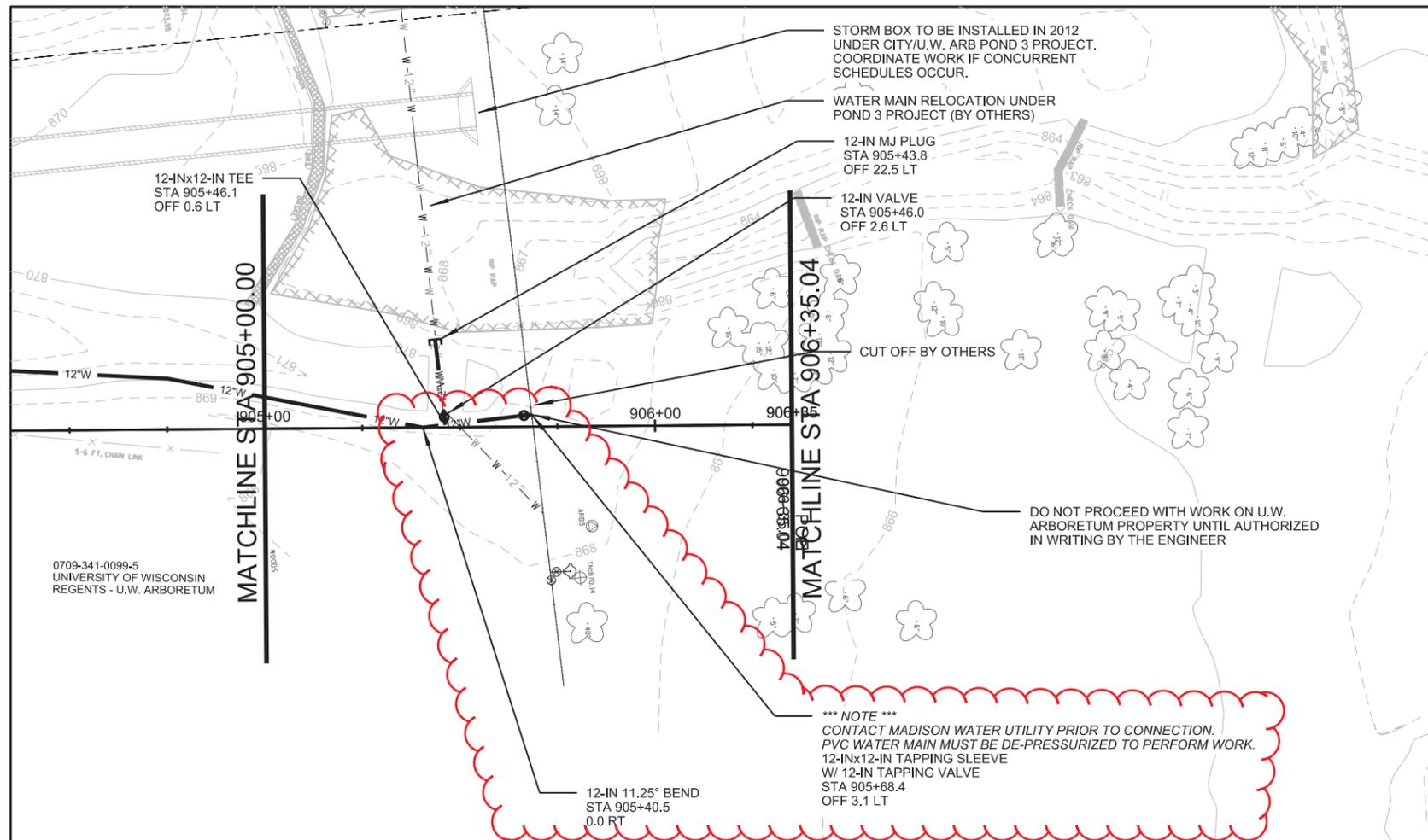
REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

U.W. ARBORETUM CITY OF MADISON  
 DESIGN: A. WIEDERHOEFT, PE

REV - 07/27/12 - ARW - REVISE WM & FENCE LOCATION, ADD PVC TAP NOTE



\*\*\* NOTE \*\*\*  
 CONTACT MADISON WATER UTILITY PRIOR TO CONNECTION.  
 PVC WATER MAIN MUST BE DE-PRESSURIZED TO PERFORM WORK.  
 12-INx12-IN TAPPING SLEEVE  
 W/ 12-IN TAPPING VALVE  
 STA 905+68.4  
 OFF 3.1 LT

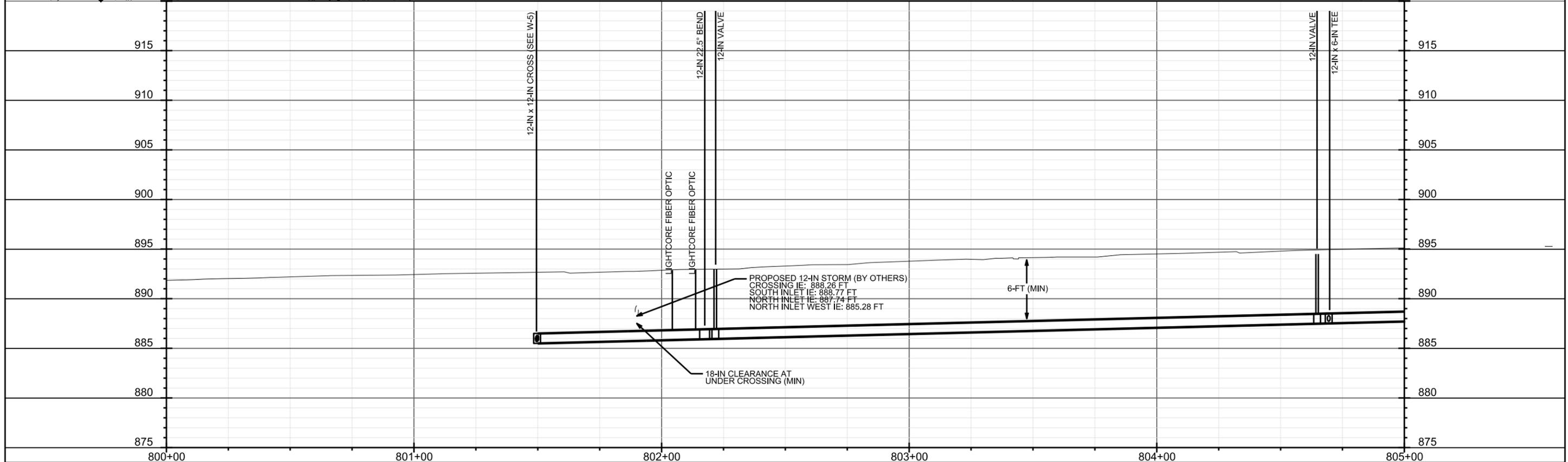
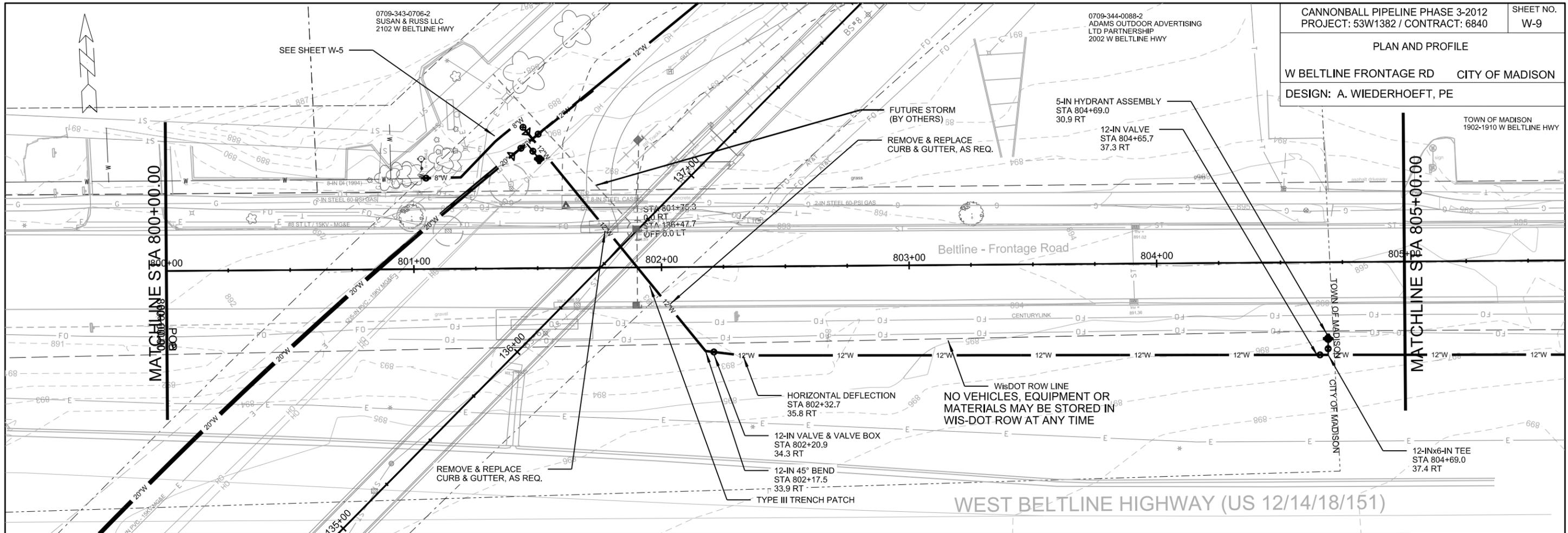
PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

TOWN OF MADISON  
 1902-1910 W BELTLINE HWY

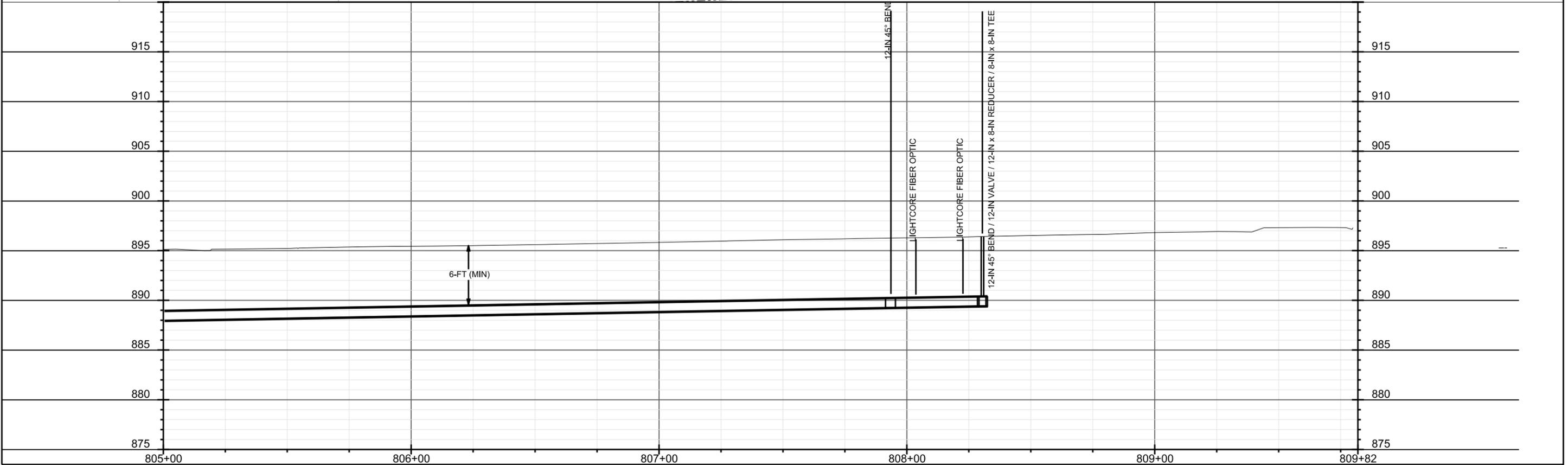
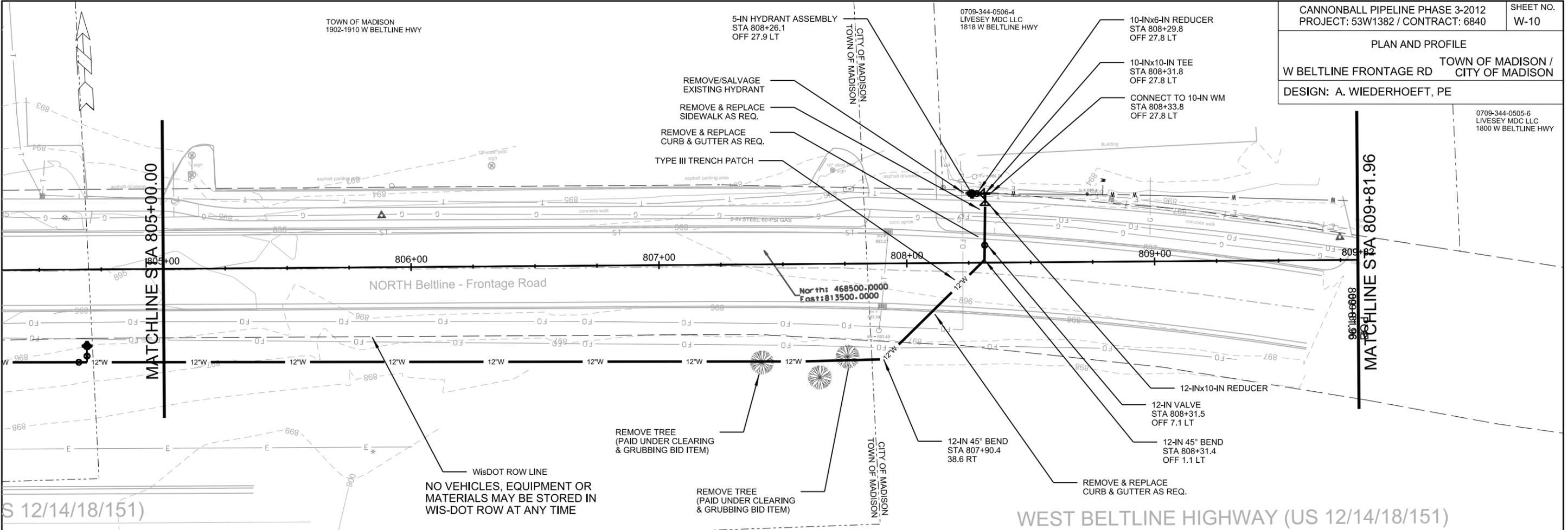


PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



PLOT SCALE: \_\_\_\_\_  
 PLOT NAME: \_\_\_\_\_  
 REV. DATE: \_\_\_\_\_  
 ORIGINATOR: CITY OF MADISON - STREETS DIVISION

### CONSTRUCTION NOTES:

1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISTRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. EXISTING WATER MAIN SHALL REMAIN IN SERVICE UNTIL NEW WATER MAIN IS TESTED AND ACCEPTED BY MADISON WATER UTILITY AND ALL SERVICES ARE RECONNECTED.
5. THE EXISTING UTILITIES SHOWN ON THIS PLAN REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN PREPARATION. LOCATE EACH UTILITY PRIOR TO COMMENCING WORK.

- WN1 REPLACE THE EXISTING LEAD SERVICE WITH A COPPER SERVICE.
- WN2 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.
- WN3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.
- WN4 DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.
- WN5 RELOCATE THE EXISTING FIRE HYDRANT.
- WN6 ABANDON WATER VALVE ACCESS STRUCTURE.
- WN7 FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.
- WN8 ABANDON THE VALVE BOX.
- WN9 FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.
- WN10 REMOVE/SALVAGE HYDRANT.
- WN11 REPLACE THE EXISTING COPPER SERVICE WITH A NEW COPPER SERVICE.

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE  
TOLL FREE  
811 OR 1-800-242-8511  
FAX-A-LOCATE 1-800-338-3860  
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

WIS. STATUTE 182.0175 (1974)  
REQUIRES MIN. OF 3 WORK DAYS  
NOTICE BEFORE YOU EXCAVATE.



DISCLAIMER NOTE:  
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### ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

\* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

45-FT - 6-IN PIPE  
255-FT - 8-IN PIPE  
10-FT - 10-IN PIPE  
1,800-FT - 12-IN PIPE  
1,340-FT - 16-IN PIPE  
575-FT - 20-IN HDPE PIPE (AND REQ'D APPURTENANCES)

67-FT 20-IN STEEL CASING  
40-FT 24-IN STEEL CASING

3,770-FT - POLYWRAP  
1,500-FT - SELECT FILL (OR AS REQ'D, SEE SPECS)

6 - 5-IN HYDRANTS

2 - VALVE BOXES (HDPE TRACER WIRE ACCESS)  
6 - 6-IN GATE VALVES AND BOXES  
2 - 8-IN GATE VALVES AND BOXES  
7 - 12-IN GATE VALVES AND BOXES  
4 - 16-IN BUTTERFLY VALVES AND BOXES

2 - 20-IN 11.25° BENDS (PAID UNDER HDPE BID ITEM)  
1 - 20-IN x 16-IN REDUCER (PAID UNDER HDPE BID ITEM)  
1 - 20-IN x 12-IN REDUCER (PAID UNDER HDPE BID ITEM)  
4 - 16-IN 45° BENDS  
2 - 16-IN 22.5° BENDS  
1 - 16-IN 11.25° BEND  
1 - 16-IN x 8-IN TEE  
2 - 16-IN x 6-IN TEES  
4 - 12-IN 45° BENDS  
5 - 12-IN 22.5° BENDS  
1 - 12-IN x 12-IN CROSS  
1 - 12-IN x 12-IN TEE  
1 - 12-IN M.J. PLUG  
1 - 12-IN x 10-IN REDUCER  
1 - 12-IN x 8-IN REDUCER  
2 - 12-IN x 6-IN TEES  
1 - 10-IN x 10-IN TEE  
1 - 10-IN x 6-IN REDUCER  
2 - 8-IN 90° BENDS  
2 - 8-IN 45° BENDS

24-FT - 2-IN STYROFOAM INSULATION (OR AS REQ'D)

### MATERIALS SUPPLIED BY CITY:

(SOUTH FRONTAGE RD LIVE TAP)  
1 - 8-IN X 8-IN TAPPING SLEEVE  
1 - 8-IN TAPPING VALVE AND BOX

(U.W. ARBORETUM LIVE TAP)  
1 - 12-IN X 12-IN TAPPING SLEEVE  
1 - 12-IN TAPPING VALVE AND BOX