

Madison, Wisconsin

CITY OF MADISON

MADISON WATER UTILITY

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

CANNONBALL WATER MAIN - PHASE 6

PUBLIC IMPROVEMENT PROJECT APPROVED

3/20/2018

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

[Signature] 7-1-19
Principal Engineer
Madison Water Utility Date

WATER DESIGNED BY:

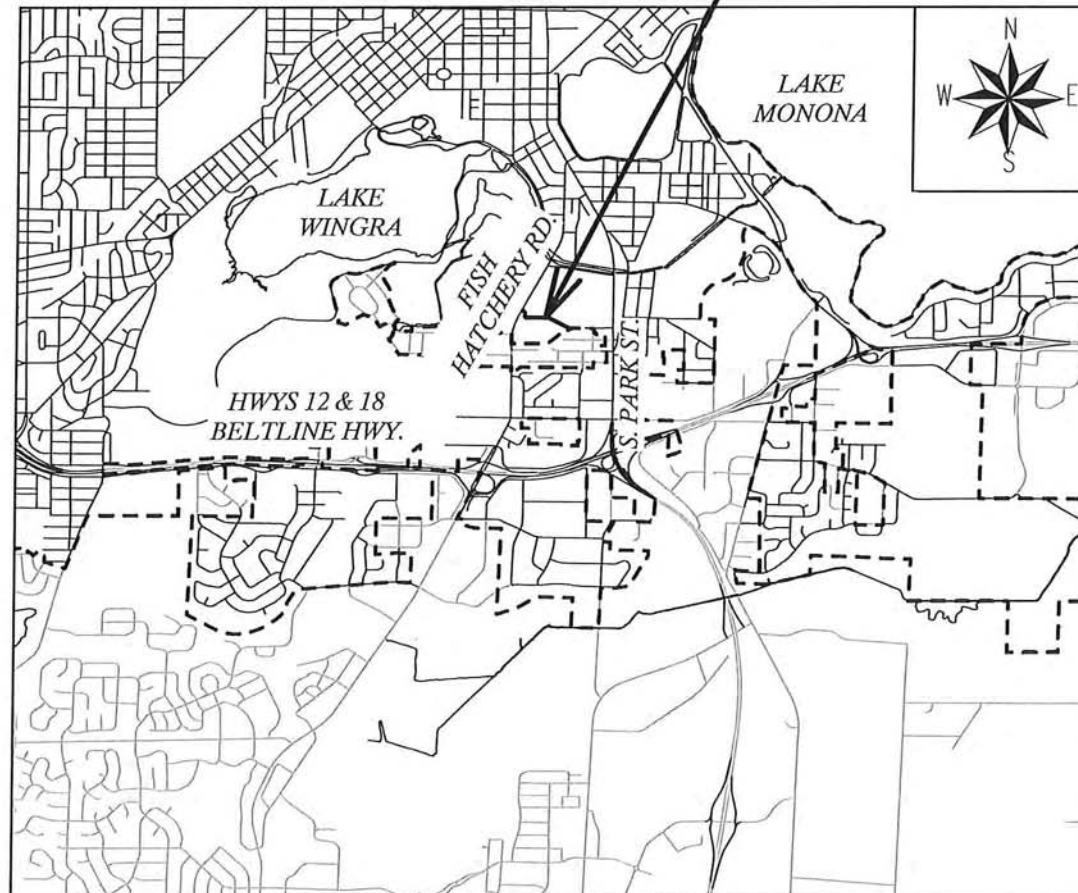
WISCONSIN PROFESSIONAL ENGINEER
ADAM R. WIEDERHOEFT
E-41559
MADISON WI
[Signature]
7/1/2019

INDEX OF SHEETS

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CITY PROJECT NO. 10435
MUNIS NO. 10435-86-179
CONTRACT NO. 7963

PROJECT LOCATION



CONVENTIONAL SIGNS
FIELD VERIFY ALL UTILITY LOCATIONS

GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
BURIED ELECTRIC	— E —
OVERHEAD ELECTRIC	— OH —
POWER POLE	□
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	▣
COMBUSTIBLE FLUIDS	☀

REV 10-9-19 ARW - SEE SHEETS W-3 TO W-6

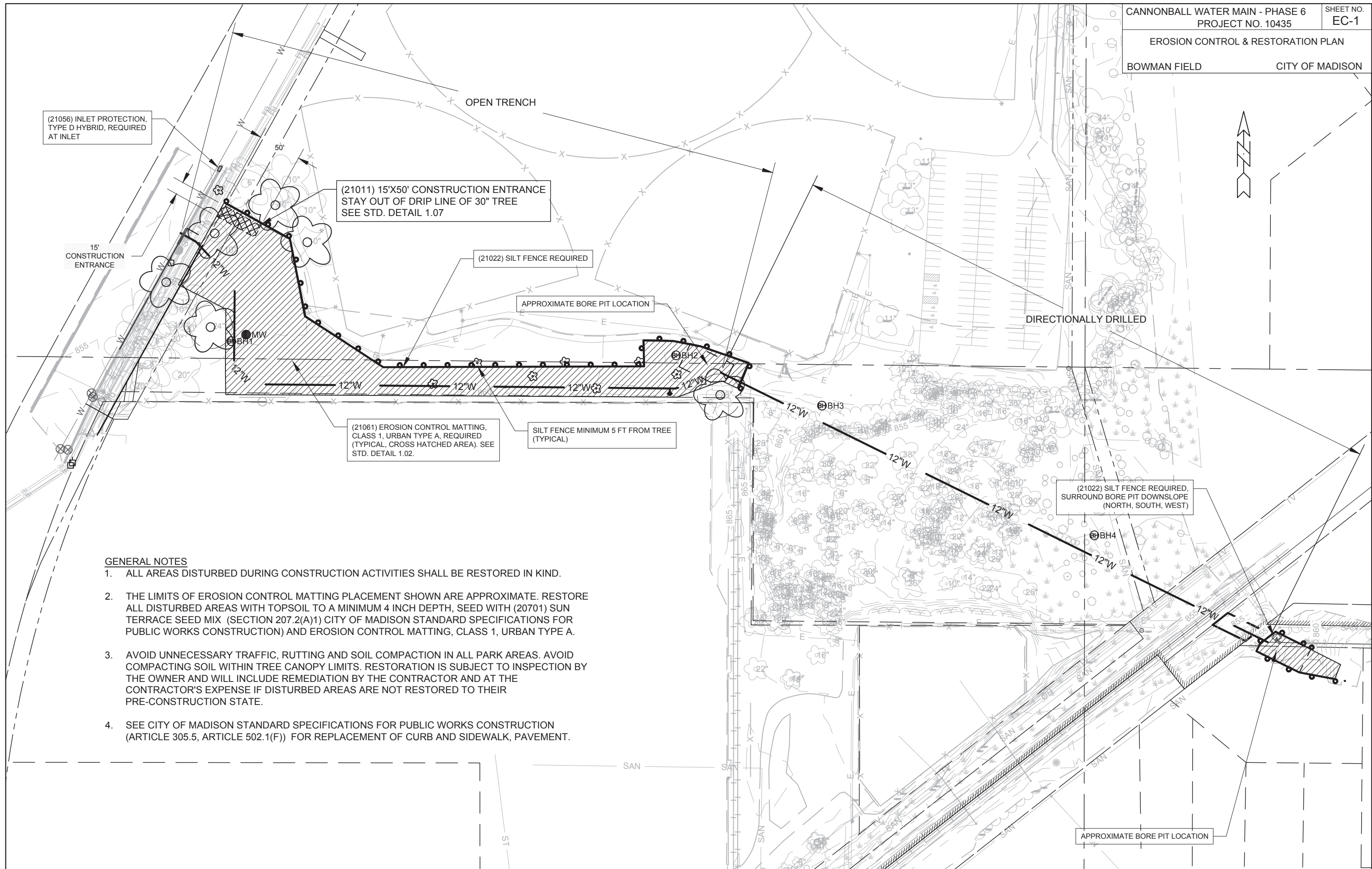
PLOT SCALE: 1" = 1'

PLOT NAME: —

REV. DATE: 4/4/2018 2:54 PM

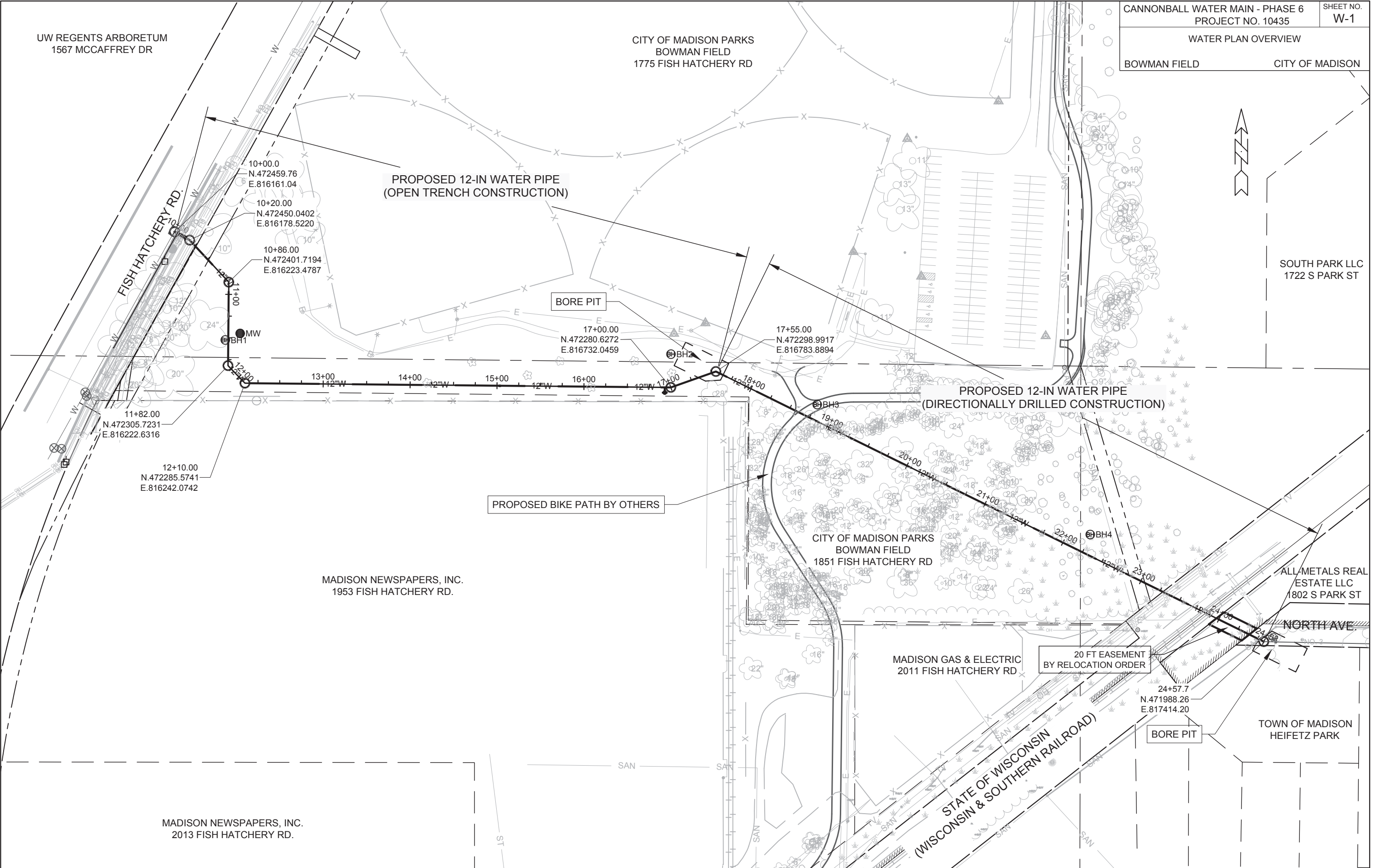
ORIGINATOR: CITY_OF_MADISON_WATER_UTILITY

PLOT SCALE: 1 IN:100 FT
PLOT NAME: EC-1 EROSION CONTROL & RESTORATION PLAN
REV. DATE: 4/19/2018 3:00 PM
ORIGINATOR: MADISON WATER UTILITY: Wudar

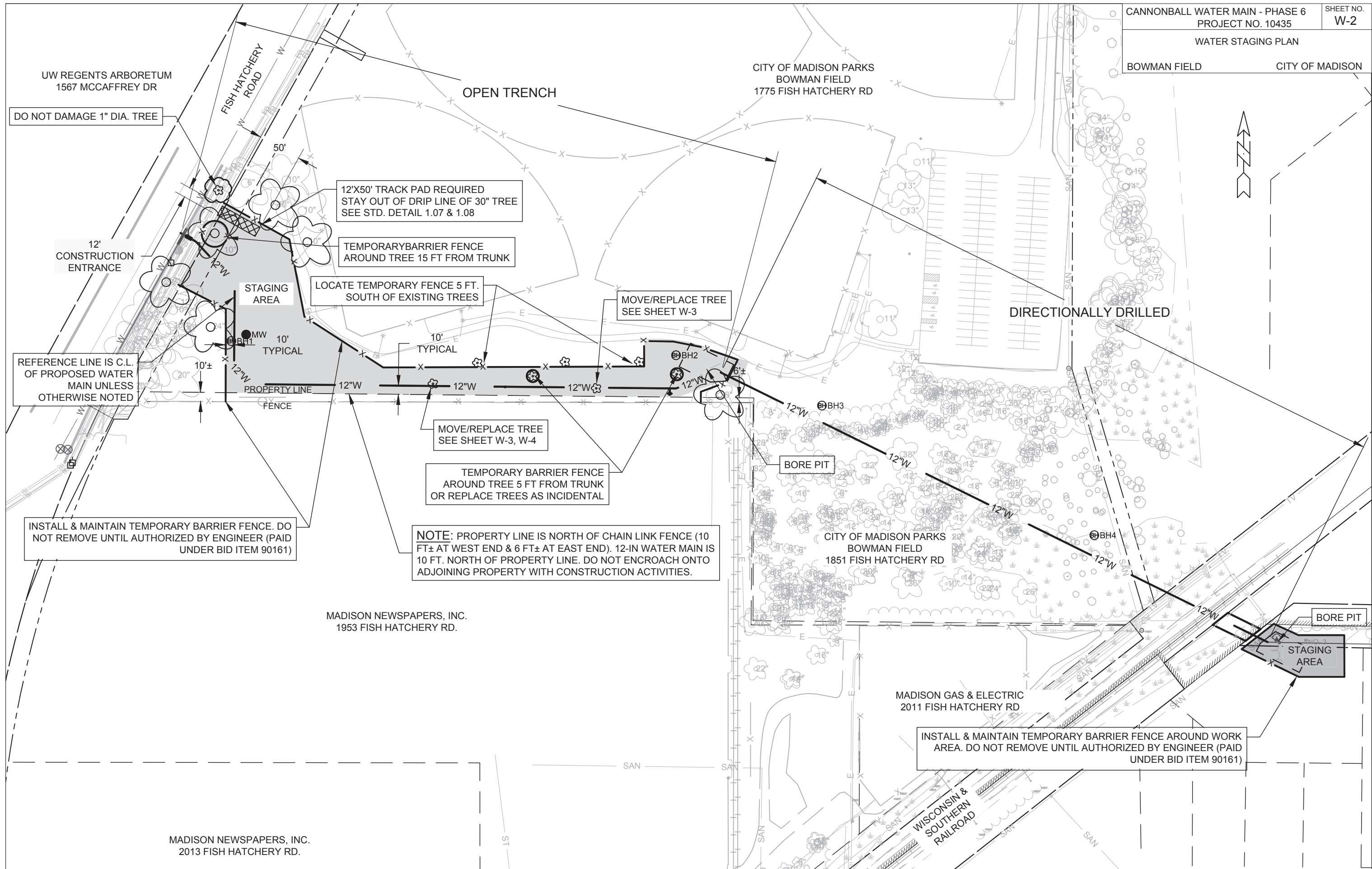


GENERAL NOTES

1. ALL AREAS DISTURBED DURING CONSTRUCTION ACTIVITIES SHALL BE RESTORED IN KIND.
2. THE LIMITS OF EROSION CONTROL MATTING PLACEMENT SHOWN ARE APPROXIMATE. RESTORE ALL DISTURBED AREAS WITH TOPSOIL TO A MINIMUM 4 INCH DEPTH, SEED WITH (20701) SUN TERRACE SEED MIX (SECTION 207.2(A)1) CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION) AND EROSION CONTROL MATTING, CLASS 1, URBAN TYPE A.
3. AVOID UNNECESSARY TRAFFIC, RUTTING AND SOIL COMPACTION IN ALL PARK AREAS. AVOID COMPACTING SOIL WITHIN TREE CANOPY LIMITS. RESTORATION IS SUBJECT TO INSPECTION BY THE OWNER AND WILL INCLUDE REMEDIATION BY THE CONTRACTOR AND AT THE CONTRACTOR'S EXPENSE IF DISTURBED AREAS ARE NOT RESTORED TO THEIR PRE-CONSTRUCTION STATE.
4. SEE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (ARTICLE 305.5, ARTICLE 502.1(F)) FOR REPLACEMENT OF CURB AND SIDEWALK, PAVEMENT.



PLOT SCALE: #####
 PLOT NAME:
 REV. DATE: 02/27/2018
 ORIGINATOR: MADISON WATER UTILITY: Wudgar



DO NOT DAMAGE 1" DIA. TREE

12' CONSTRUCTION ENTRANCE

12'X50' TRACK PAD REQUIRED
 STAY OUT OF DRIP LINE OF 30" TREE
 SEE STD. DETAIL 1.07 & 1.08

TEMPORARY BARRIER FENCE
 AROUND TREE 15 FT FROM TRUNK

LOCATE TEMPORARY FENCE 5 FT.
 SOUTH OF EXISTING TREES

MOVE/REPLACE TREE
 SEE SHEET W-3

DIRECTIONALLY DRILLED

REFERENCE LINE IS C.L.
 OF PROPOSED WATER
 MAIN UNLESS
 OTHERWISE NOTED

MW 10' TYPICAL

MOVE/REPLACE TREE
 SEE SHEET W-3, W-4

TEMPORARY BARRIER FENCE
 AROUND TREE 5 FT FROM TRUNK
 OR REPLACE TREES AS INCIDENTAL

BORE PIT

INSTALL & MAINTAIN TEMPORARY BARRIER FENCE. DO NOT REMOVE UNTIL AUTHORIZED BY ENGINEER (PAID UNDER BID ITEM 90161)

NOTE: PROPERTY LINE IS NORTH OF CHAIN LINK FENCE (10 FT± AT WEST END & 6 FT± AT EAST END). 12-IN WATER MAIN IS 10 FT. NORTH OF PROPERTY LINE. DO NOT ENCROACH ONTO ADJOINING PROPERTY WITH CONSTRUCTION ACTIVITIES.

MADISON NEWSPAPERS, INC.
 1953 FISH HATCHERY RD.

BORE PIT

STAGING AREA

MADISON GAS & ELECTRIC
 2011 FISH HATCHERY RD

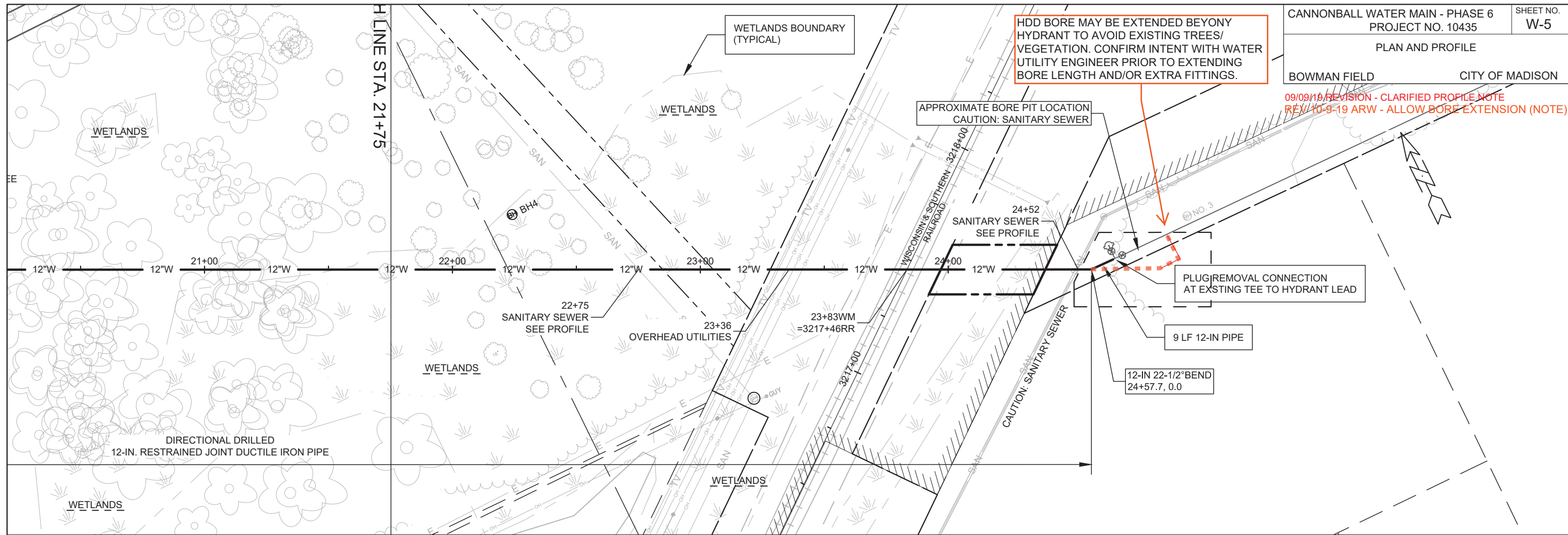
INSTALL & MAINTAIN TEMPORARY BARRIER FENCE AROUND WORK AREA. DO NOT REMOVE UNTIL AUTHORIZED BY ENGINEER (PAID UNDER BID ITEM 90161)

MADISON NEWSPAPERS, INC.
 2013 FISH HATCHERY RD.

WISCONSIN & SOUTHERN RAILROAD

PLOT SCALE: #####
 PLOT NAME: ---
 REV. DATE: 6/5/2019 9:42 AM
 ORIGINATOR: MADISON WATER UTILITY: Wudar

09/09/19 REVISION - CLARIFIED PROFILE NOTE
REV 10-9-19 ARW - ALLOW BORE EXTENSION (NOTE)

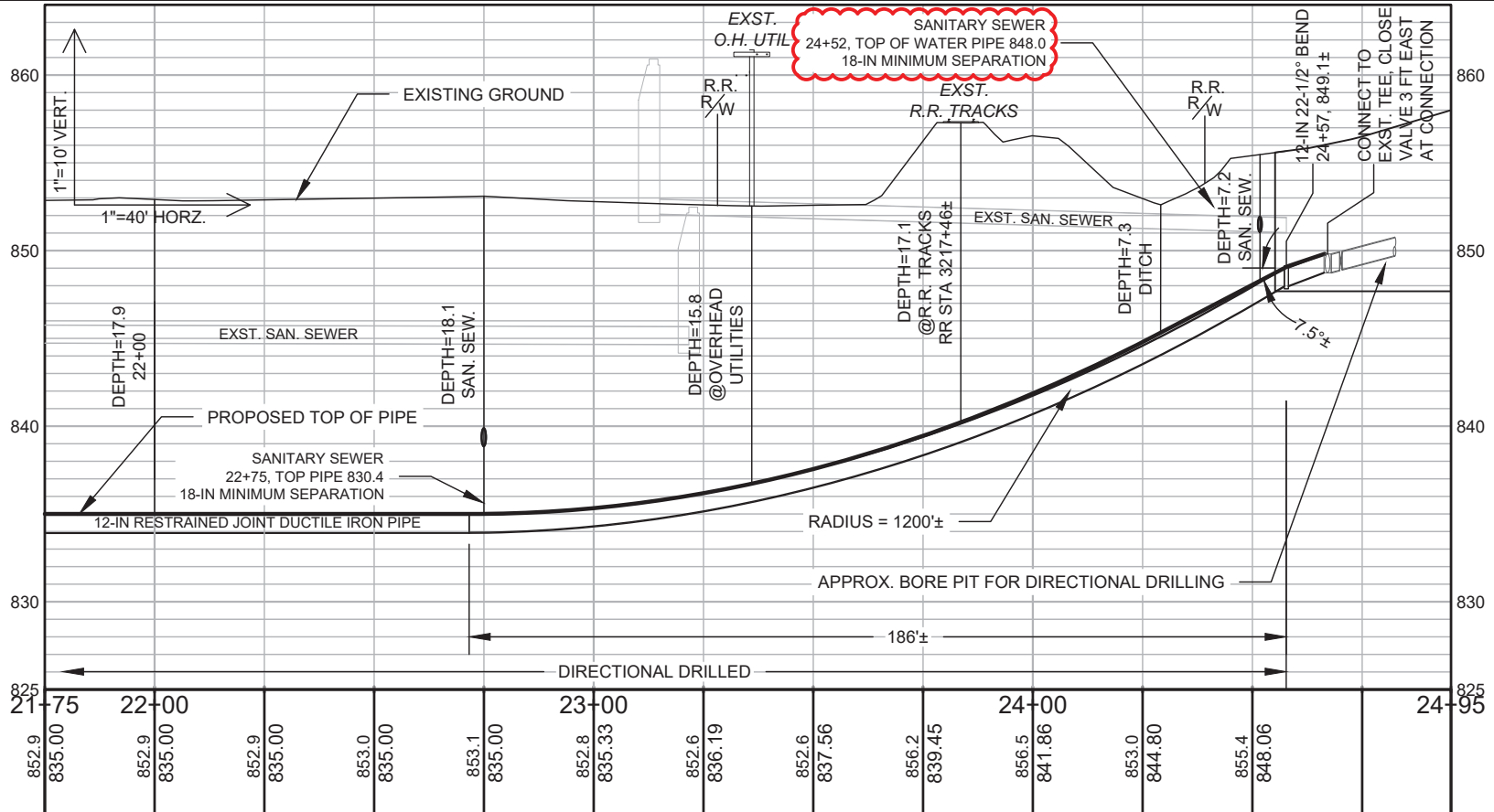


PLOT SCALE: 1" = 40'

PLOT NAME: W5-PLAN AND PROFILE

REV. DATE: 9/9/2019 6:15 AM

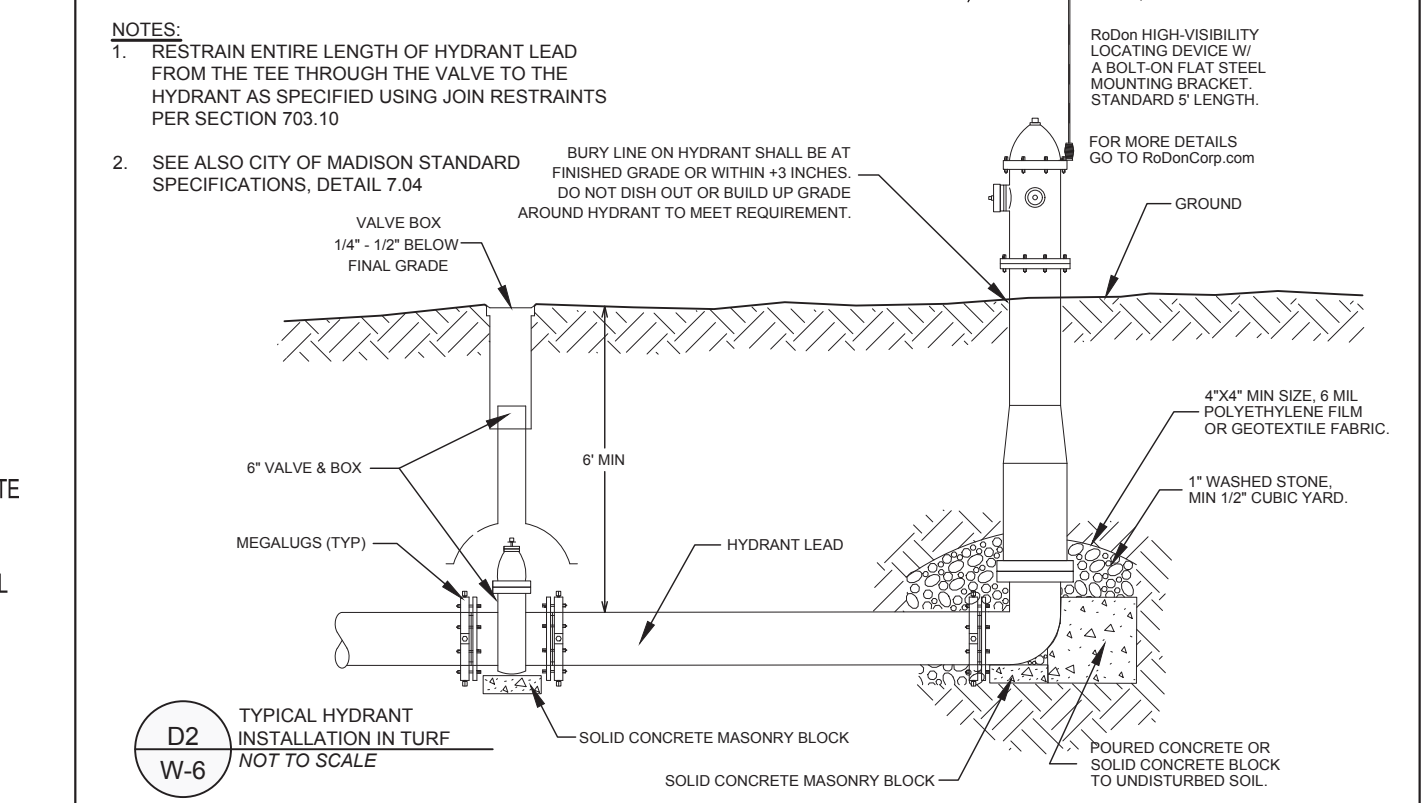
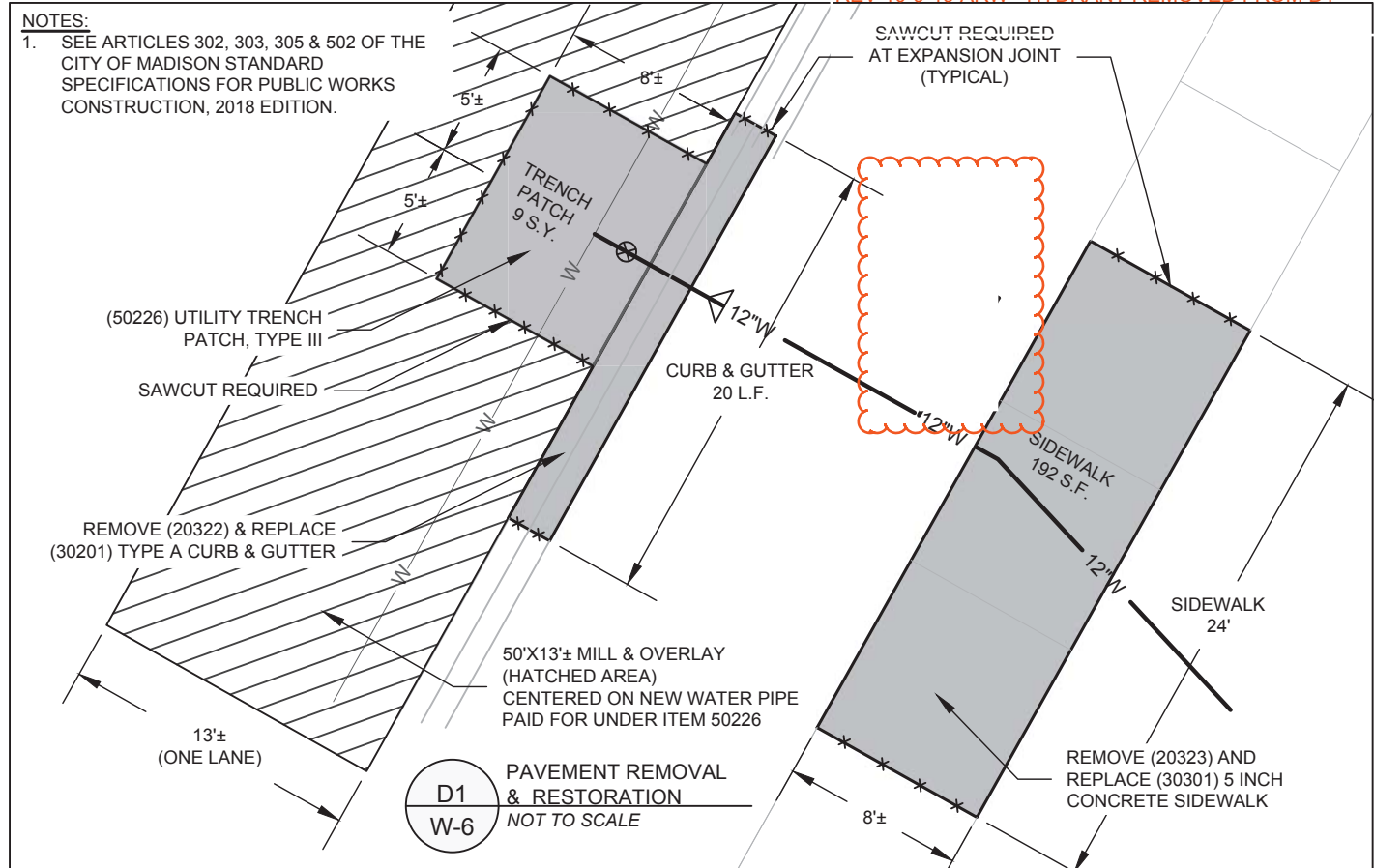
ORIGINATOR: MADISON WATER UTILITY: Wudiar



NOTE: R.R. STATION FROM RIGHT OF WAY AND TRACK MAP, CHICAGO AND NORTH-WESTERN RAILWAY, MADISON, WIS. TO MONTFORT, WIS., DATED JUNE 30, 1917, HOLDING FORMER CENTERLINE OF FISH HATCHERY RD. (FITCHBURG RD.) AS DETERMINED FROM STATE R/W PROJECT 5992-2-80 @ R.R. STA. 3198+78

CONSTRUCTION NOTES:

1. CONSTRUCT NEW WATER MAIN MINIMUM 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. MINIMIZE DISRUPTION OF USE OF BOWMAN BY BY THE GENERAL PUBLIC. PROTECT ALL TREES AND THEIR ROOT SYSTEMS FROM DAMAGE.
 3. THE EXISTING UTILITIES SHOWN ON THIS PLAN REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN PREPARATION. CONTRACTOR IS RESPONSIBLE FOR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.
- WN1 REPLACE THE EXISTING LEAD SERVICE WITH A NEW 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 AND SALVAGE EXISTING HYDRANT
 - WN11 REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE
 - WN20+ SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.

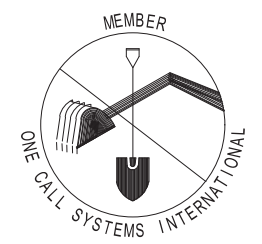


*ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

PAY ITEM ID	DESCRIPTION	QUANTITY	UNIT
10701	TRAFFIC CONTROL	1	LUNP SUM
20701	TERRACE SEEDING	4817	SQYD
21022	SILT FENCE - PROVIDE INSTALL & MAINTAIN	960	LNFT
21056	INLET PROTECTION, TYPE D HYBRID - PROVIDE & INSTALL	1	EACH
21061	EROSION MATTING, CLASS I, URBAN TYPE A	4542	SQYD
40203	HMA PAVMENT 3 MT 58-28 S	9	TON
40218	TACK COAT	7	GAL
40301	FULL WIDTH GRINDING	72	SQYD
40391	REMOVE & REPLACE 5" THICK CONCRETE SIDEWALK	190	SQFT
50226	UTILITY TRENCH PATCH TYPE III	9	SQYD
70002	FURNISH AND INSTALL 6 INCH PIPE & FITTINGS	6	LNFT
70004	FURNISH AND INSTALL 10 INCH PIPE & FITTINGS	4	LNFT
70005	FURNISH AND INSTALL 12 INCH PIPE & FITTINGS	749	LNFT
70012	HORIZONTAL DIRECTIONAL DRILL 12 INCH PIPE	703	LNFT
70031	FURNISH AND INSTALL 6-INCH WATER VALVE	2	EACH
70034	FURNISH AND INSTALL 12-INCH WATER VALVE	1	EACH
70040	FURNISH, INSTALL AND SALVAGE HYDRANT	1	EACH
71125	12-IN 45° BEND	4	EACH
71137	12-IN 22-1/2° BEND	3	EACH
71166	12X10-IN REDUCER	1	EACH
71217	12X6-IN TEE	1	EACH
*ESTIMATE OF MATERIALS SUPPLIED BY WATER UTILITY:			
71290	10X10-IN TAPPING SLEEVE W/10-IN VALVE	1	EACH

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.

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

PLOT NAME: W-6 WATER ESTIMATE OF MATERIALS PLOT SCALE: 1:40 REV. DATE: 6/5/2019 9:51 AM ORIGINATOR: MADISON WATER UTILITY: Wudgar