

Madison, Wisconsin

# CITY OF MADISON

## MADISON WATER UTILITY

### DEPARTMENT OF PUBLIC WORKS

## PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

NOVEMBER 1, 2016

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

*[Signature]* 3/20/17  
Principal Engineer Date  
Madison Water Utility

INDEX OF SHEETS

SHEET NO.	1	TITLE SHEET
SHEET NO.	EG-1 TO EG-7	EROSION CONTROL PLAN
SHEET NO.	W-1 TO W-7	WATER PLAN & PROFILE
SHEET NO.	W-8 TO W-9	WATER PLAN OVERVIEW
SHEET NO.	W-10 TO W-15	WATER IMPACT PLAN
SHEET NO.	W-16	PRESSURE ZONE BOUNDARIES
SHEET NO.	W-17	WATER ESTIMATE OF MATERIALS
SHEET NO.	RW-1 TO RW-2	RELOCATED WALL PLAN
SHEET NO.	D-1 TO D-3	DETAILS
SHEET NO.	U-1 TO U-2	UTILITY PLAN & PROFILE & SCHEDULE
SHEET NO.	CU-1 TO CU-4	CONTRACTOR USE PLAN
SHEET NO.	RS-1 TO RS-4	RESTORATION PLAN

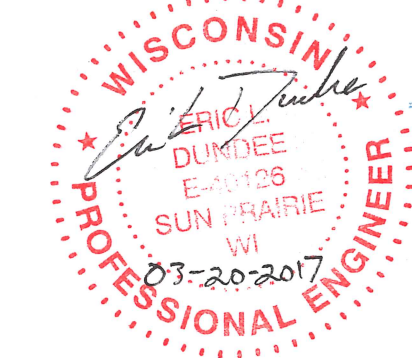
### LAKEVIEW RESERVOIR PIPELINE IMPROVEMENTS PHASE 2

CITY PROJECT NO. 53W1903  
MUNIS NO. 10439  
CONTRACT NO. 7452

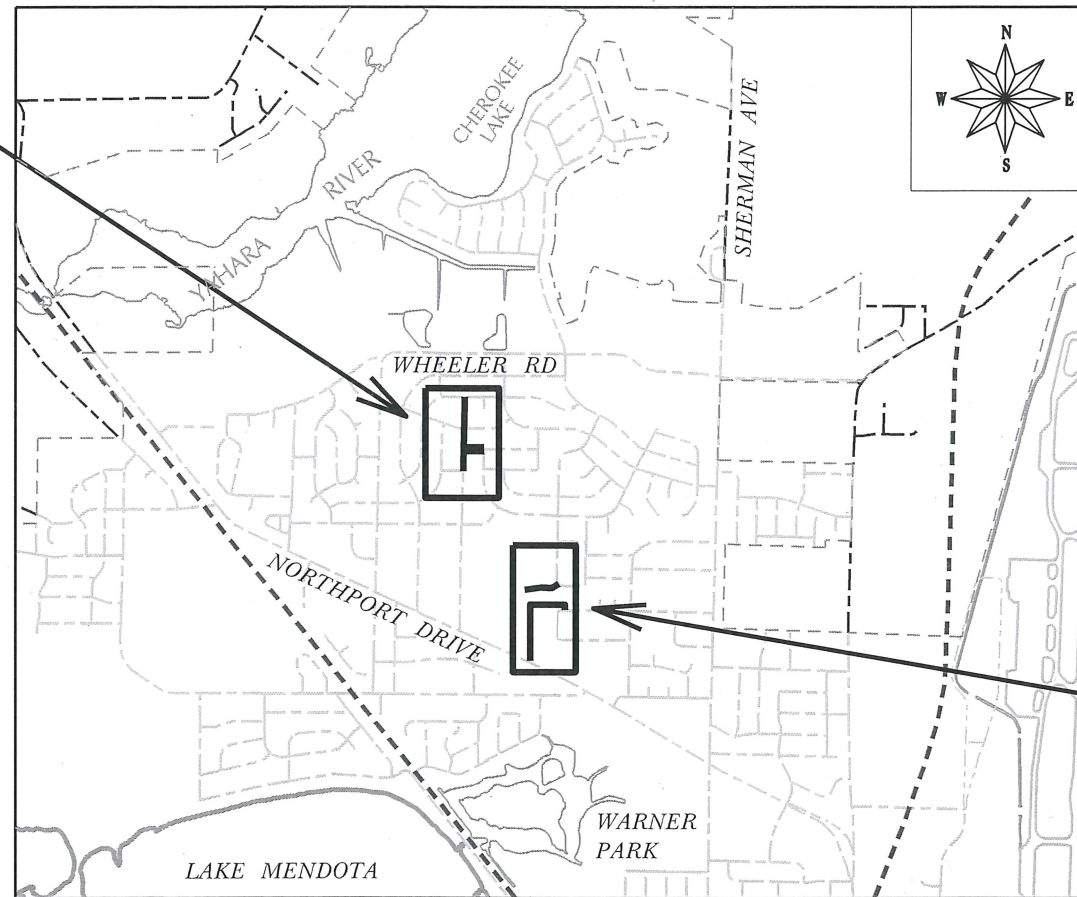
WATER DESIGNED BY:



STORM SEWER DESIGNED BY:



CONSTRUCTION PROJECT LOCATION 2 (MELBY & MANDRAKE)



CONSTRUCTION PROJECT LOCATION 1 (LAKE VIEW HILL PARK / DANE CO. HUMAN SERVICES)

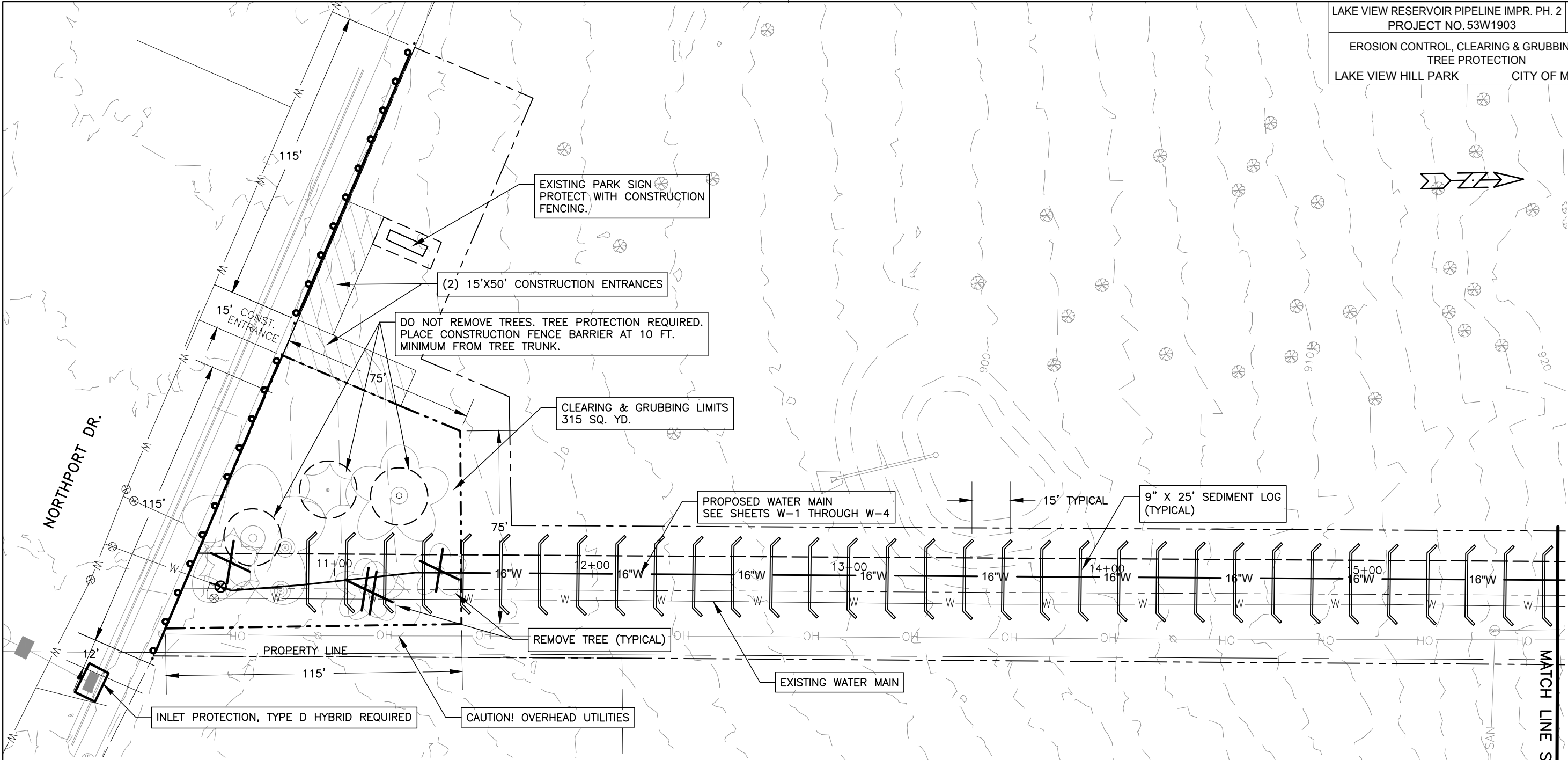
CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
BURIED ELECTRIC	— E —
OVERHEAD ELECTRIC	— OH —
POWER POLE	□
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	▒
COMBUSTIBLE FLUIDS	☀

PLOT SCALE:

PLOT NAME:

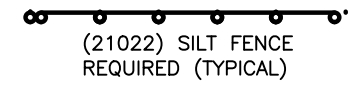
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



**EROSION CONTROL NOTES:**

1. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.
3. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.
4. THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.
5. INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.
6. POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.
7. SEE RESTORATION SHEETS FOR EROSION MAT REQUIREMENTS.



PLOT SCALE: 1"=40'

PLOT NAME: #####

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

ORIGINATOR: \_\_\_\_\_

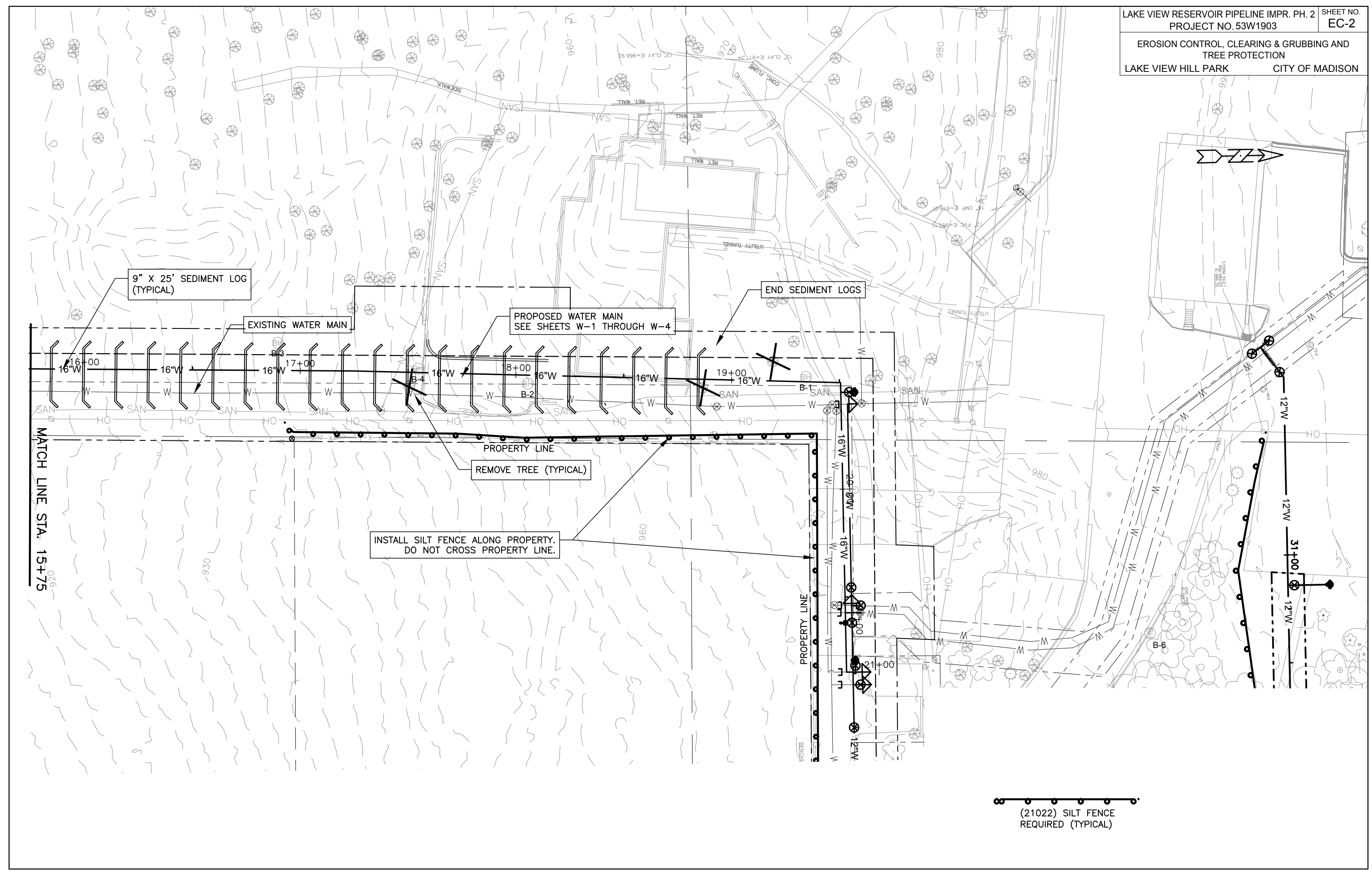
MATCH LINE STA. 15.

PLOT SCALE: 1"=40'

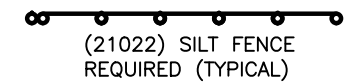
PLOT NAME: #####

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

ORIGINATOR: \_\_\_\_\_



MATCH LINE STA. 15+75

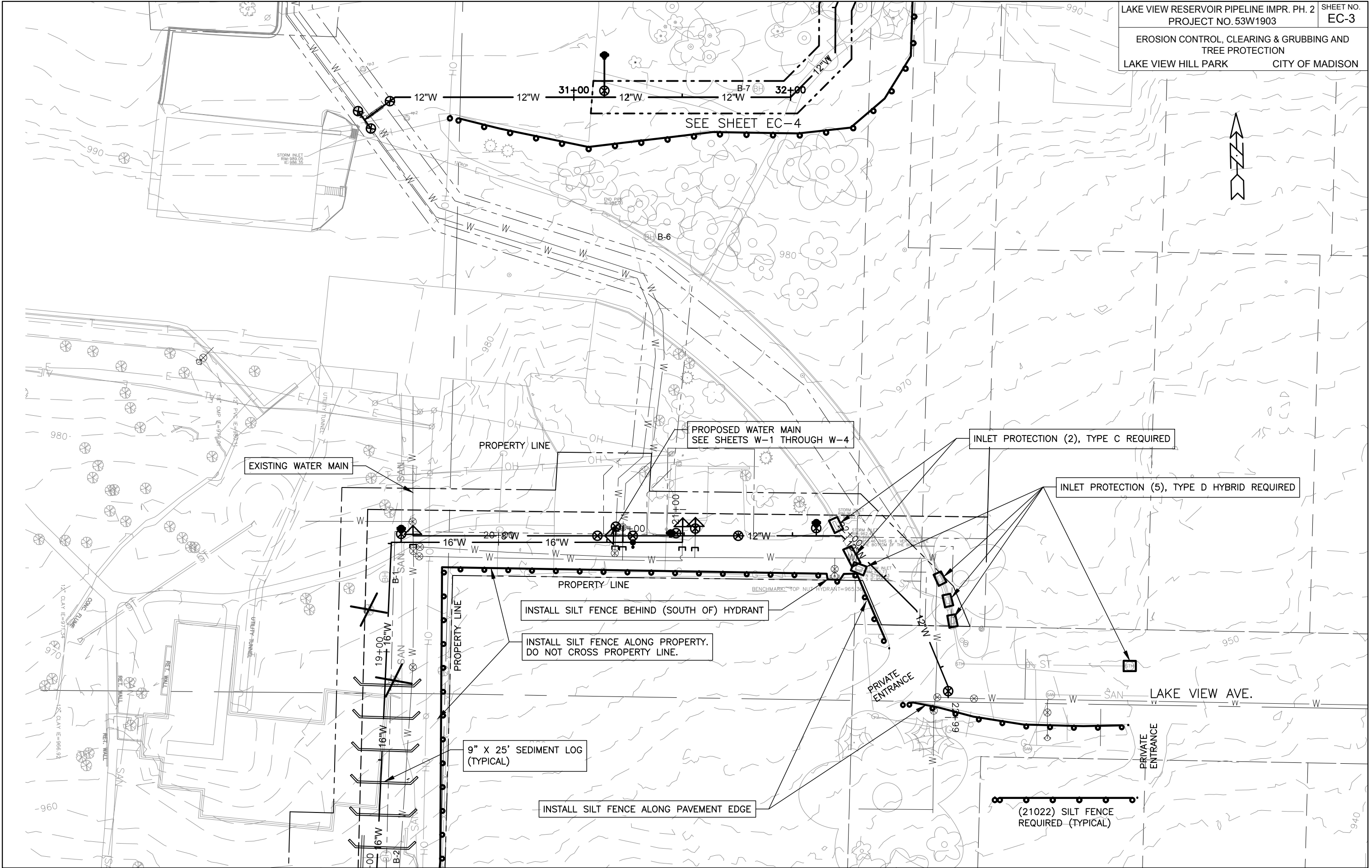


PLOT SCALE: 1"=40'

PLOT NAME: #####

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

ORIGINATOR: \_\_\_\_\_





EXISTING WATER MAIN

ESCH LN.

ACP #6031  
 N=506097.6430  
 E=824276.3120  
 ELEV=1000.0080

PRIVATE ENTRANCE

INLET PROTECTION (2), TYPE D HYBRID  
 REQUIRED AT INLETS AT THE INTERSECTION OF  
 LONGVIEW ST. & KENWOOD ST. (NOT SHOWN).

LONGVIEW ST

DO NOT REMOVE TREES. TREE PROTECTION REQUIRED.  
 PLACE CONSTRUCTION FENCE BARRIER AT 10 FT.  
 MINIMUM FROM TREE TRUNK.

PROPERTY LINE

CLEARING & GRUBBING LIMITS  
 88 SQ. YD.

PROPOSED WATER MAIN  
 SEE SHEETS W-1 THROUGH W-4

7.5' 7.5'  
 CLEARING & GRUBBING LIMITS

CAUTION: PROTECT ALL TREES AND ROOT  
 SYSTEMS FROM DAMAGE AND SOIL COMPACTION

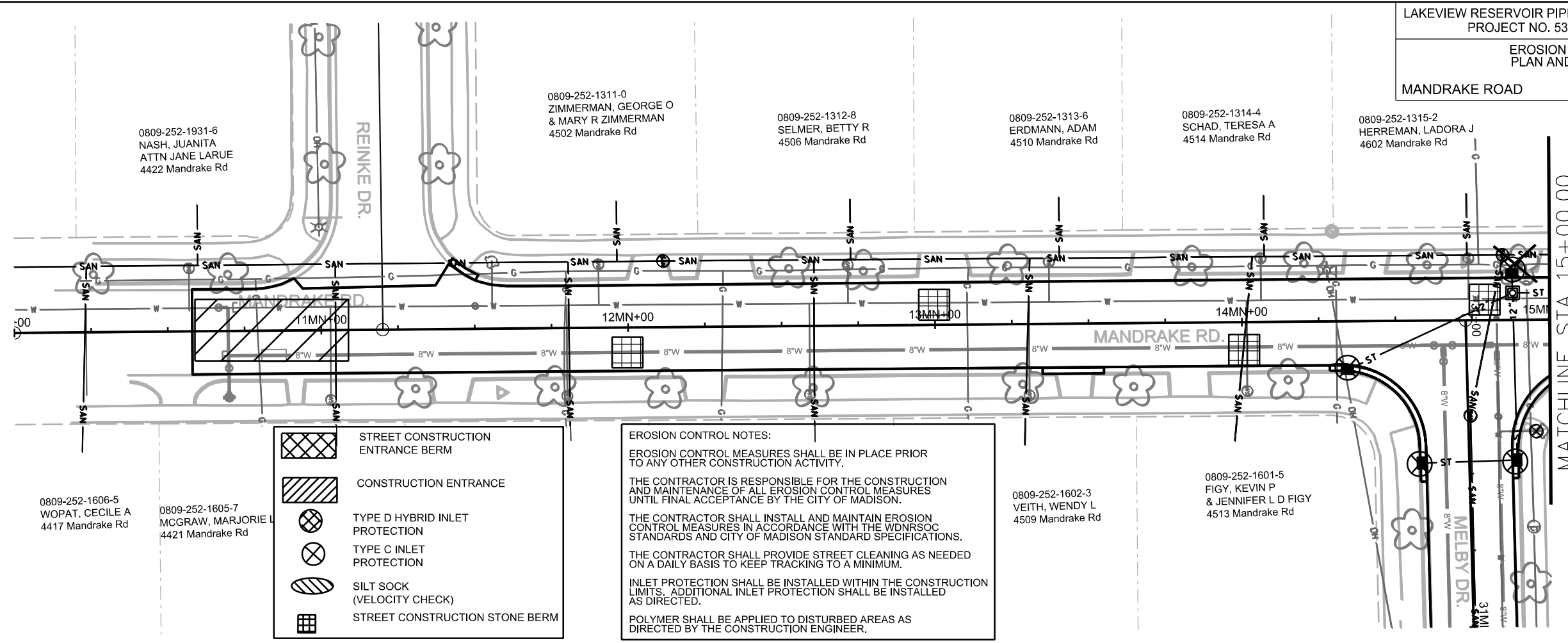
(21022) SILT FENCE  
 REQUIRED (TYPICAL)

PLOT SCALE: 1"=40'

PLOT NAME: #####

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

ORIGINATOR: \_\_\_\_\_



- STREET CONSTRUCTION ENTRANCE BERM
- CONSTRUCTION ENTRANCE
- TYPE D HYBRID INLET PROTECTION
- TYPE C INLET PROTECTION
- SILT SOCK (VELOCITY CHECK)
- STREET CONSTRUCTION STONE BERM

**EROSION CONTROL NOTES:**

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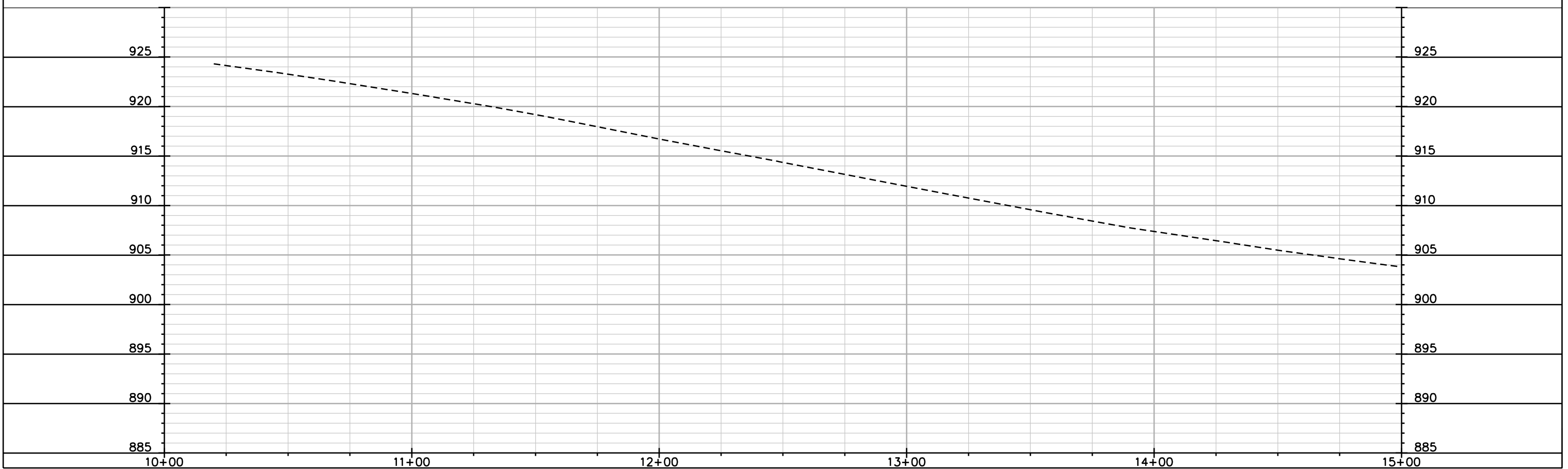
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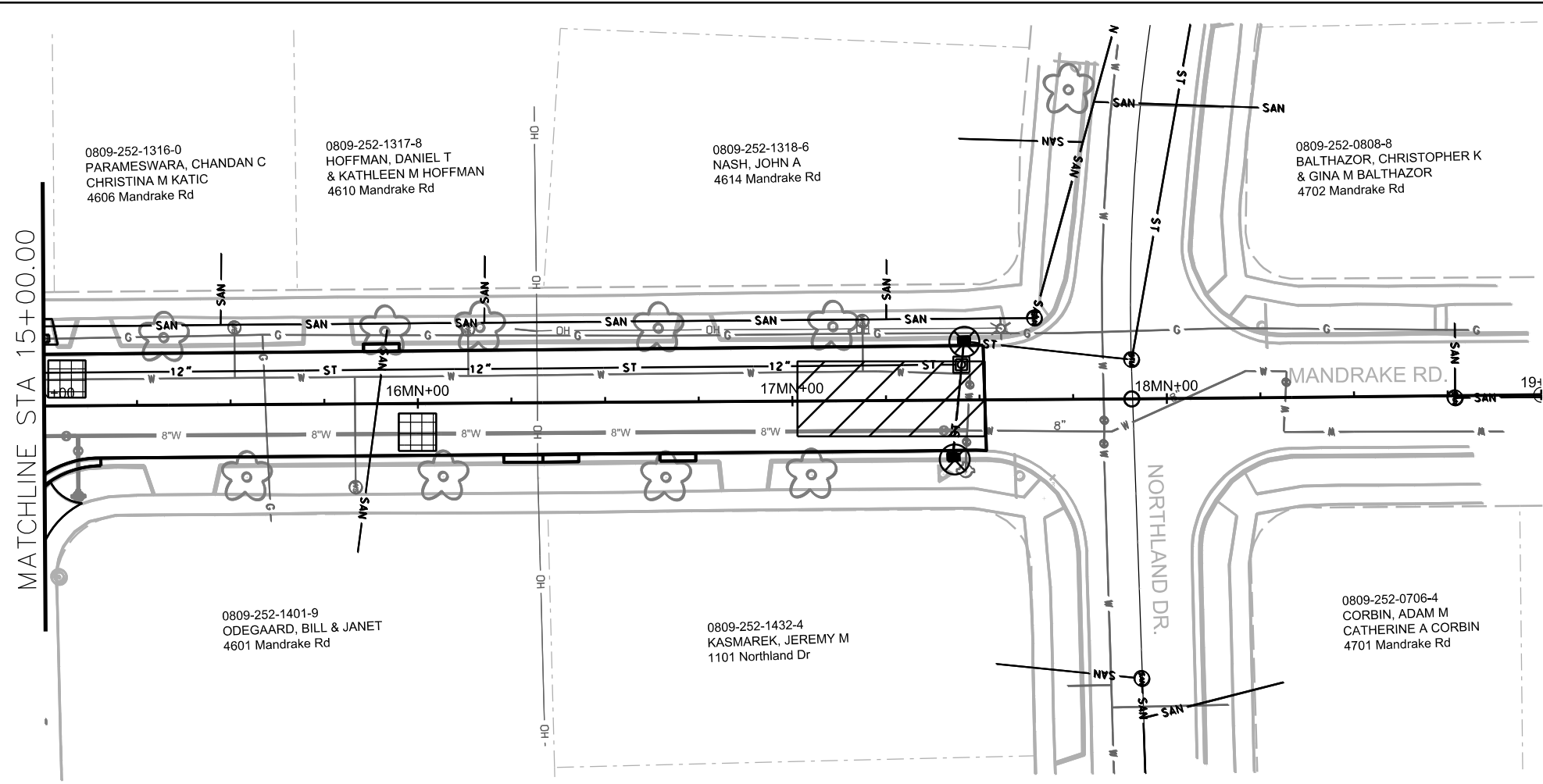


PLOT SCALE: \_\_\_\_\_

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



- STREET CONSTRUCTION ENTRANCE BERM
- CONSTRUCTION ENTRANCE
- TYPE D HYBRID INLET PROTECTION
- TYPE C INLET PROTECTION
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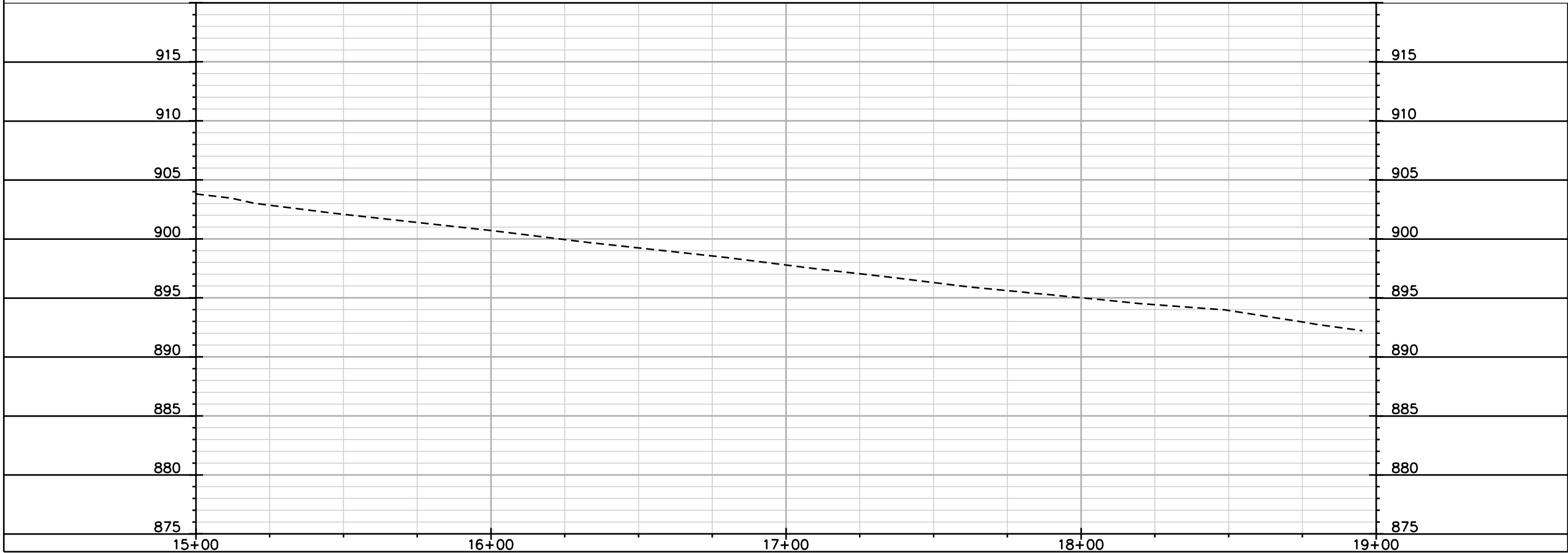
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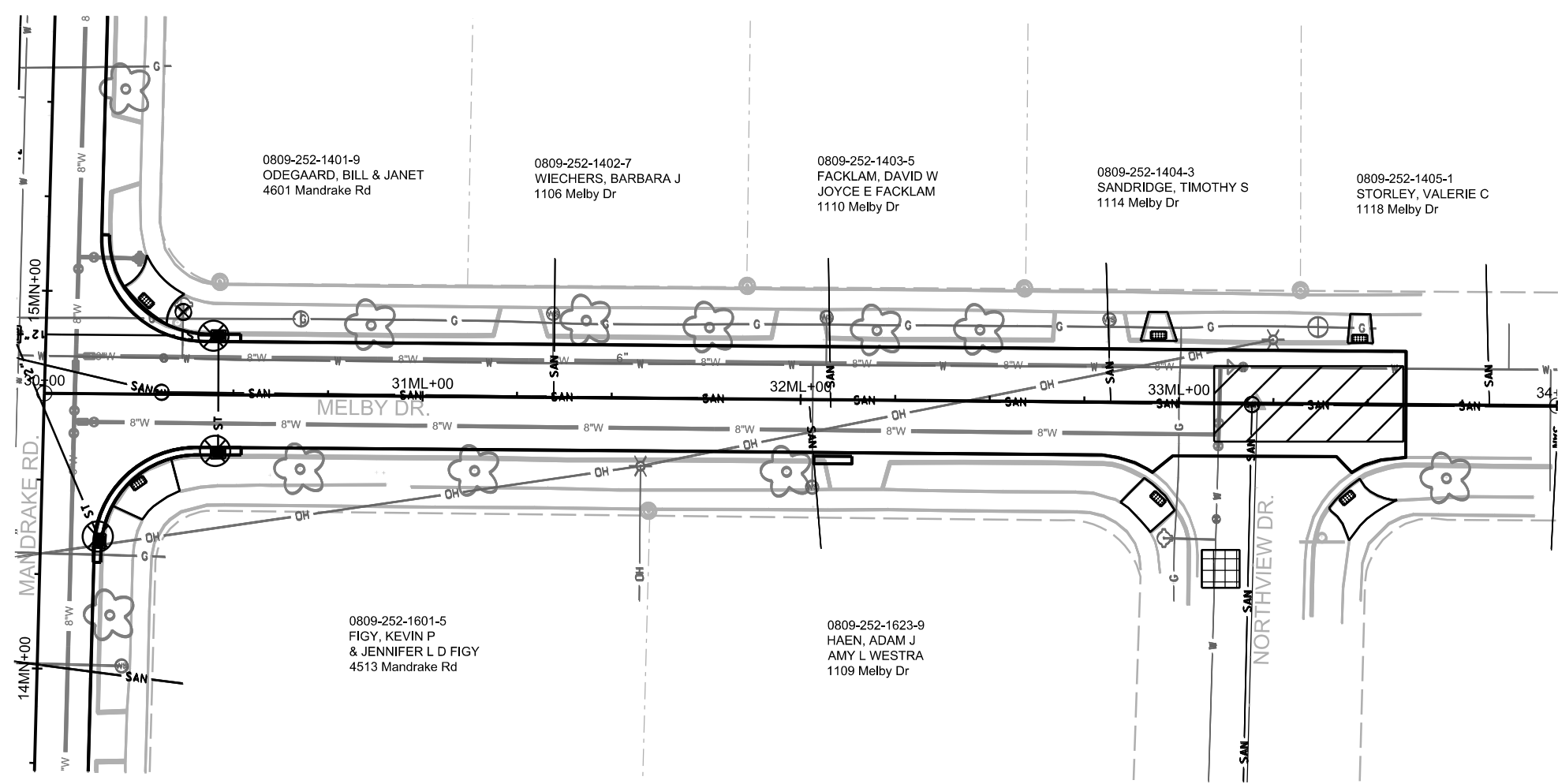


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PLOT NAME: \_\_\_\_\_

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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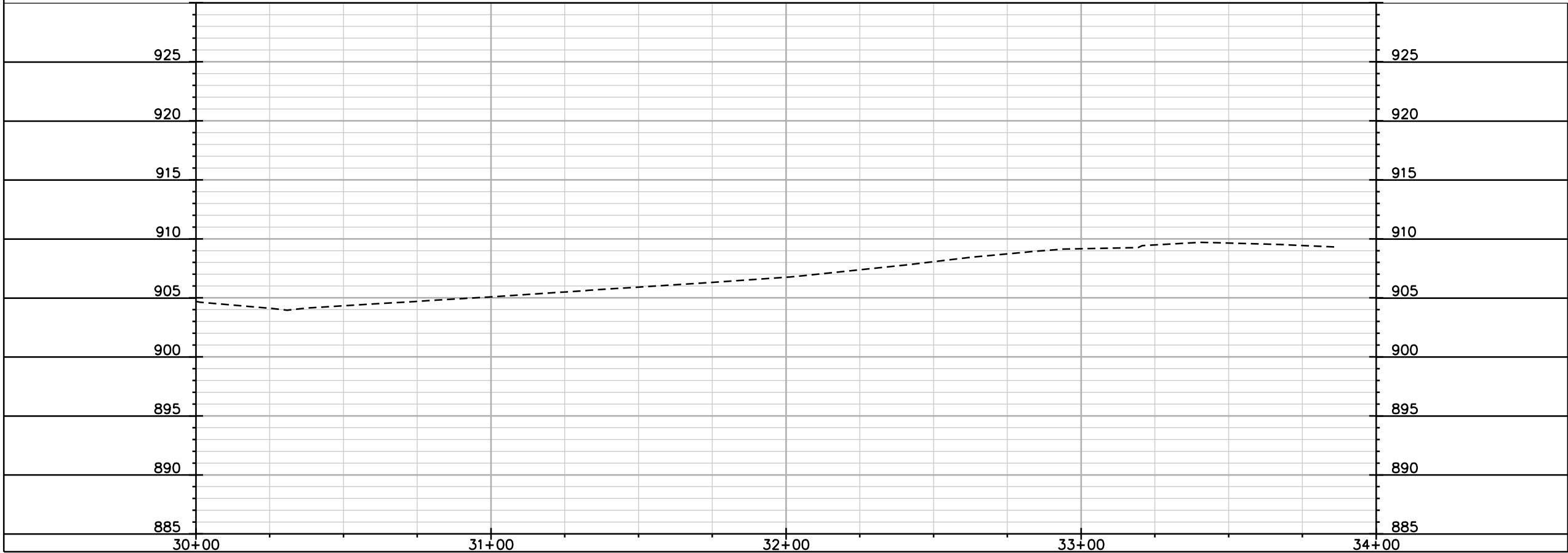
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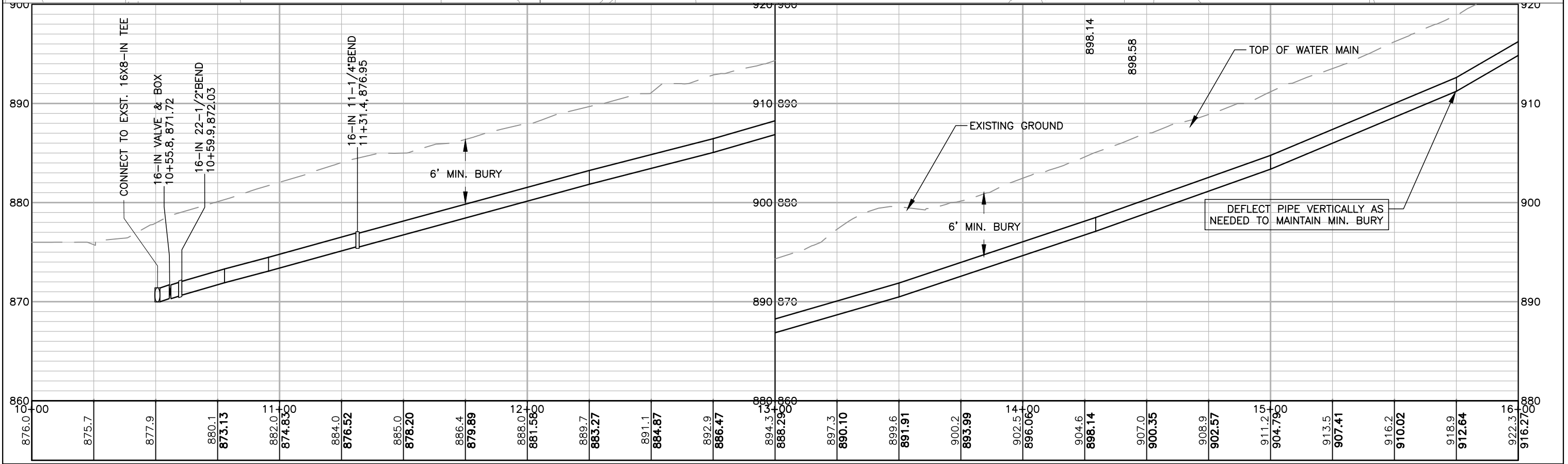
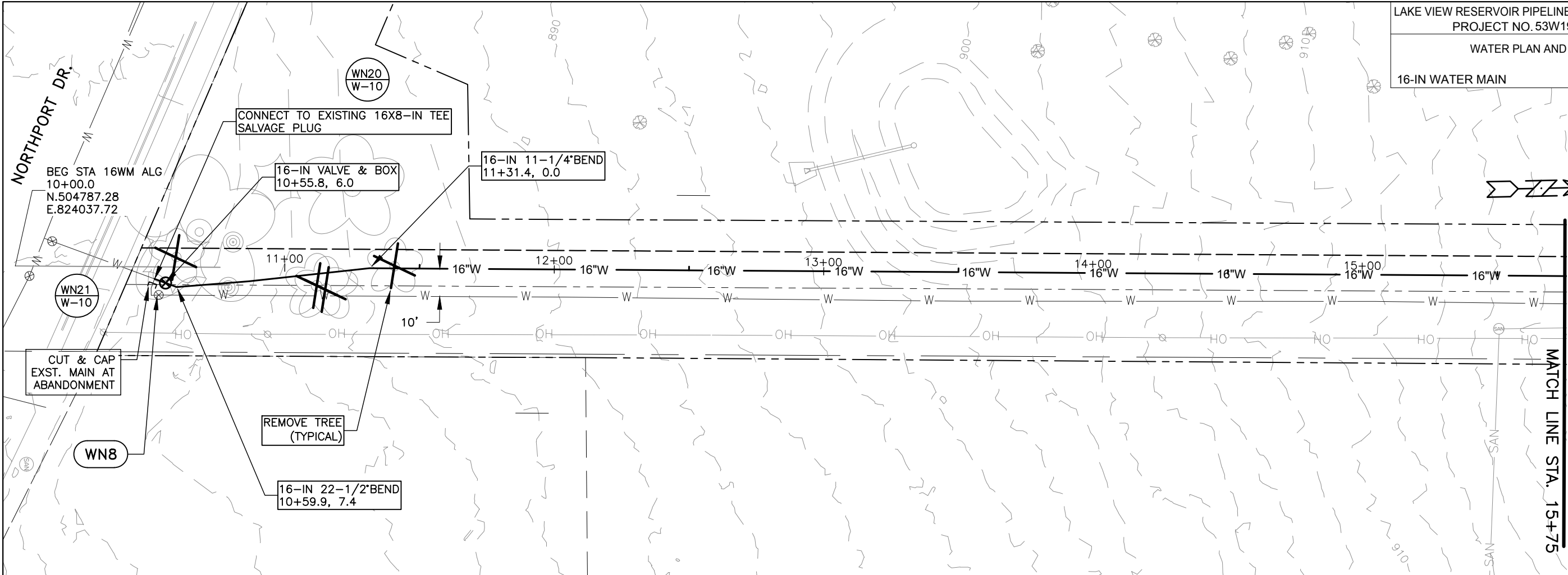
PLOT SCALE: \_\_\_\_\_

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

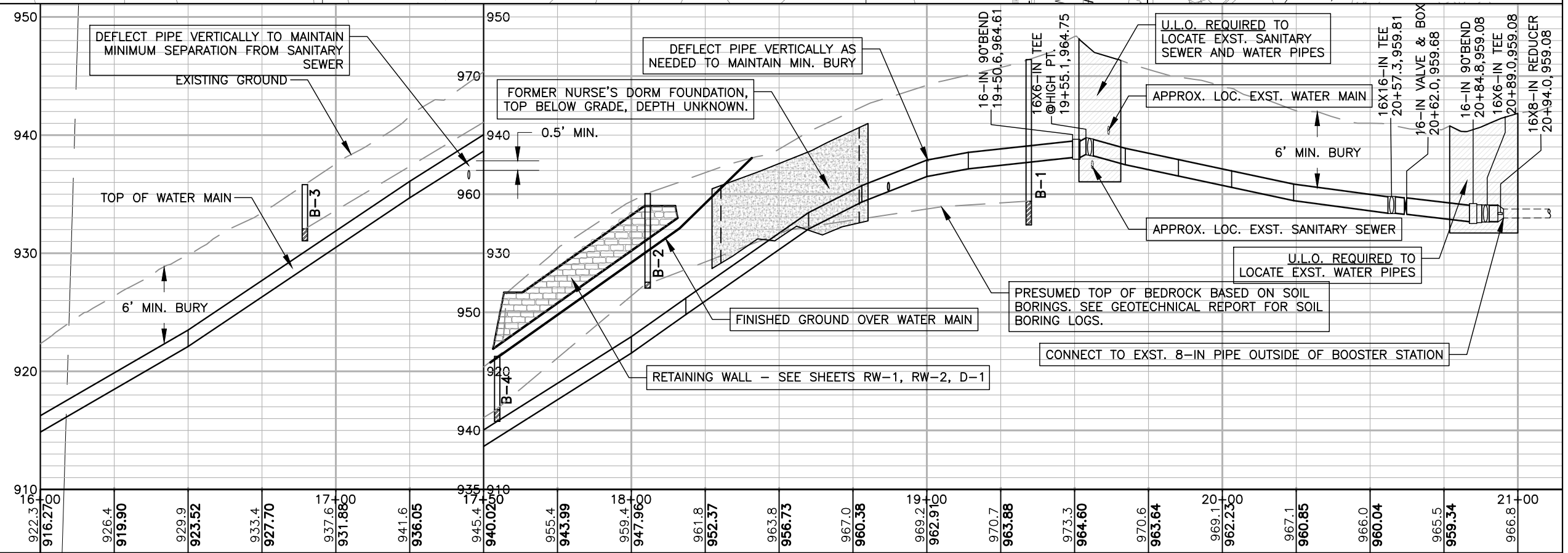
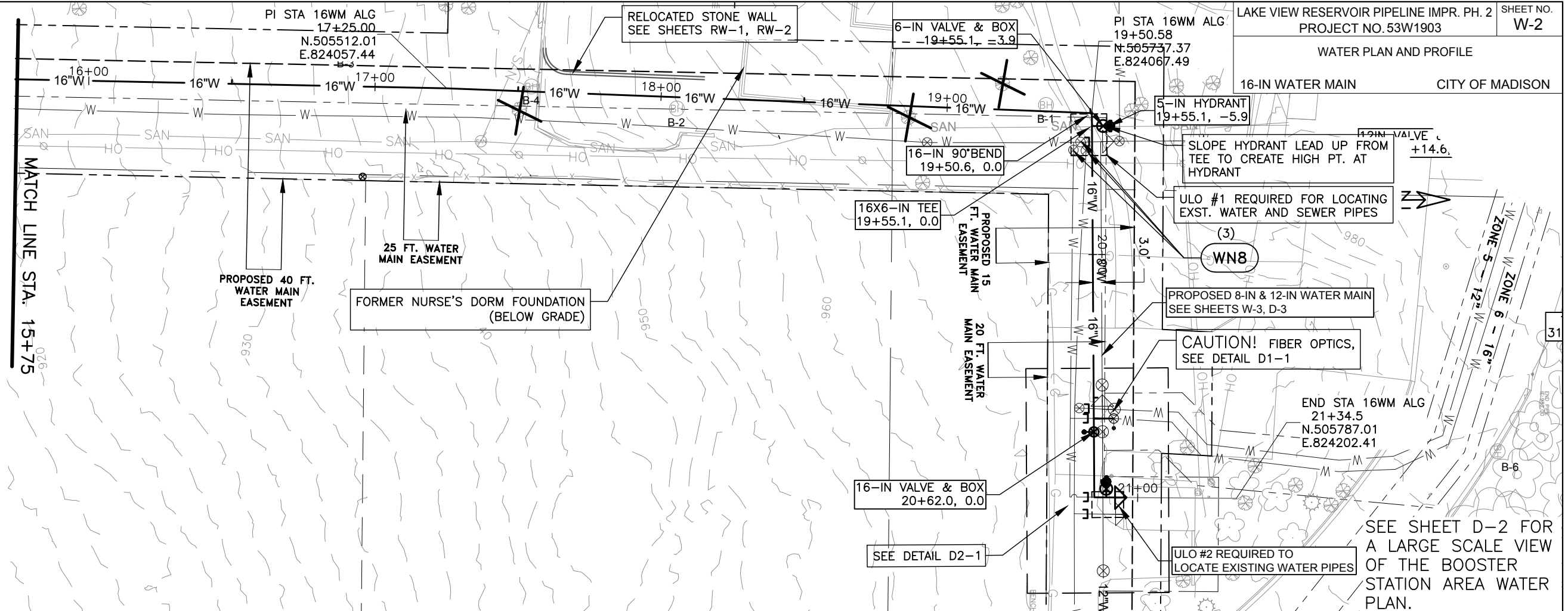
REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





PLOT SCALE: 1"=40'  
 PLOT NAME: #####  
 REV. DATE: \_\_\_\_\_  
 ORIGINATOR: ---

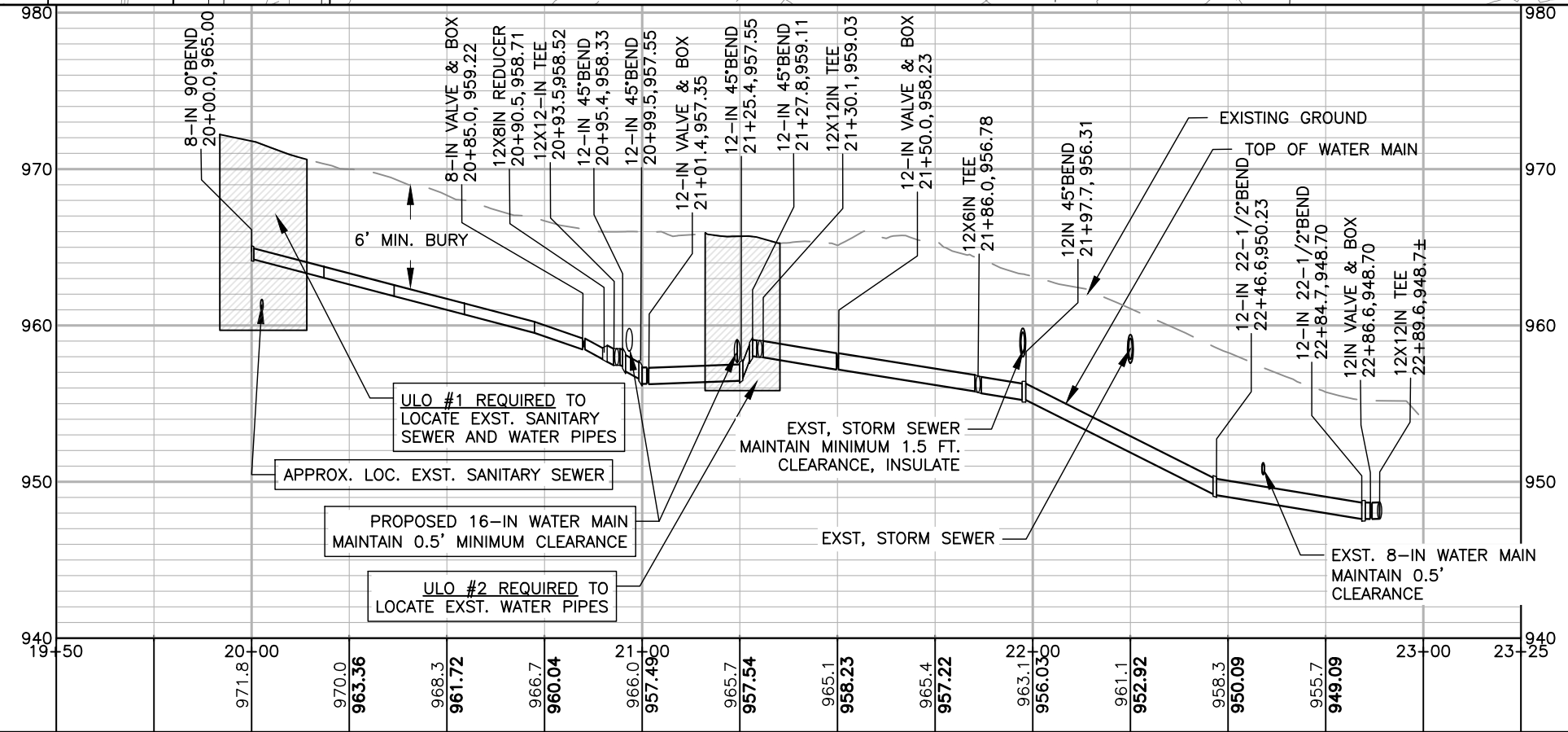
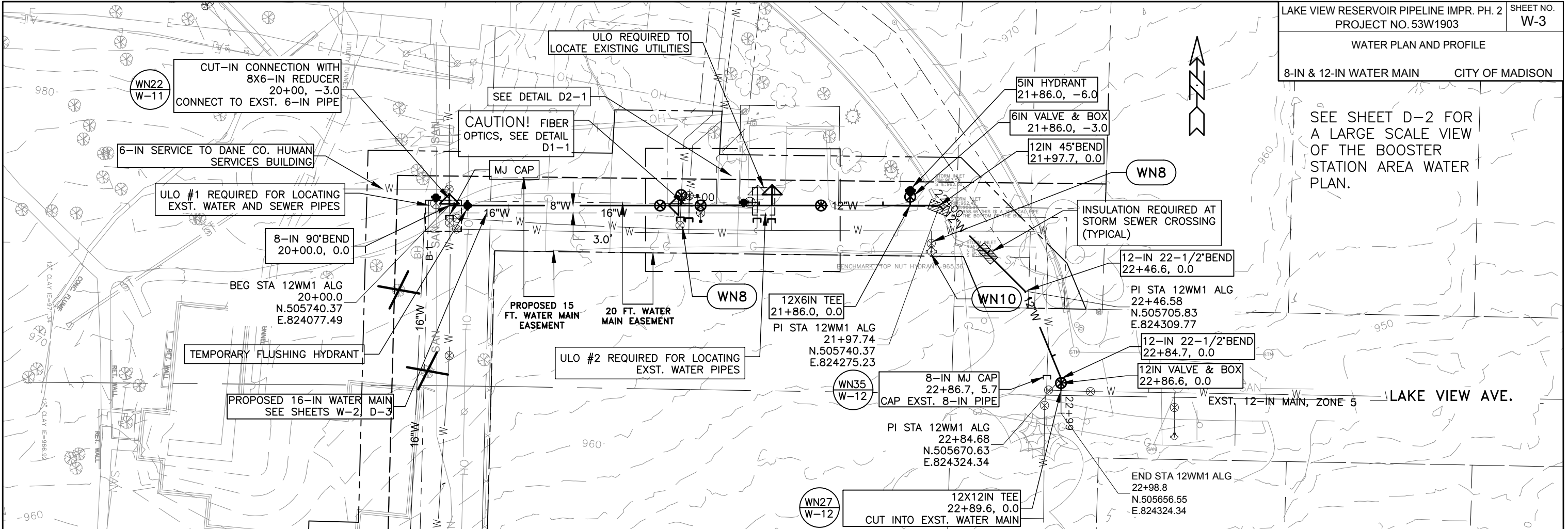


PLOT SCALE: 1"=40'

REV. DATE: #

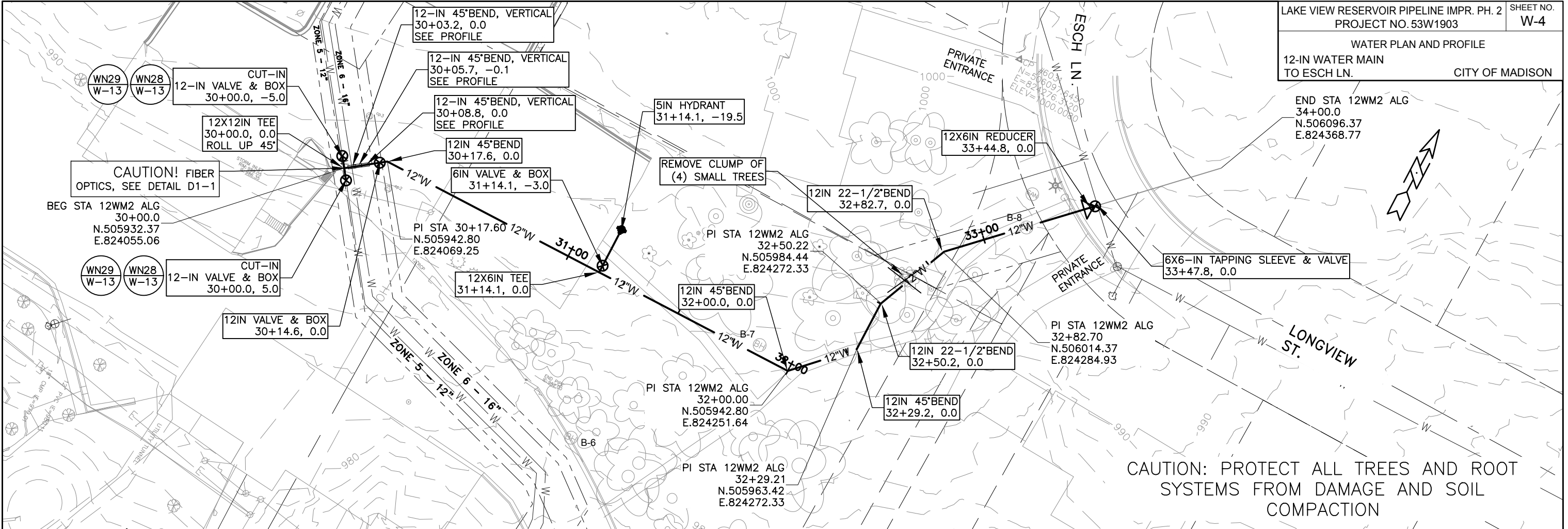
ORIGINATOR: #

SEE SHEET D-2 FOR A LARGE SCALE VIEW OF THE BOOSTER STATION AREA WATER PLAN.

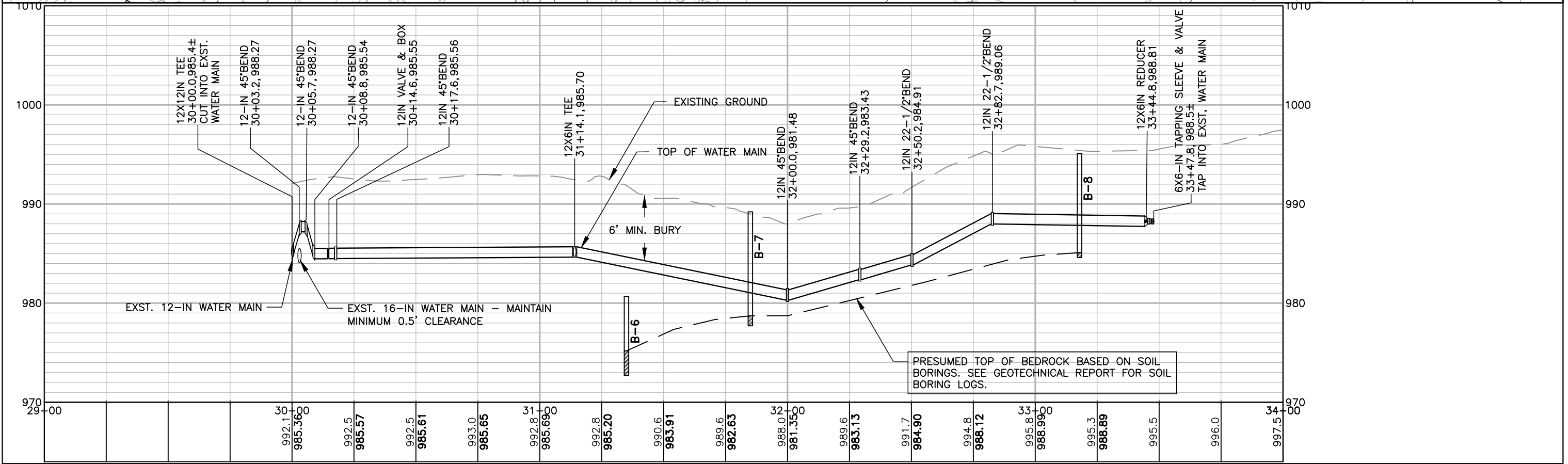


PLOT SCALE: 1"=40'  
REV. DATE: \_\_\_\_\_  
ORIGINATOR: \_\_\_\_\_

END STA 12WM2 ALG 34+00.0  
 N.506096.37  
 E.824368.77



CAUTION: PROTECT ALL TREES AND ROOT SYSTEMS FROM DAMAGE AND SOIL COMPACTION

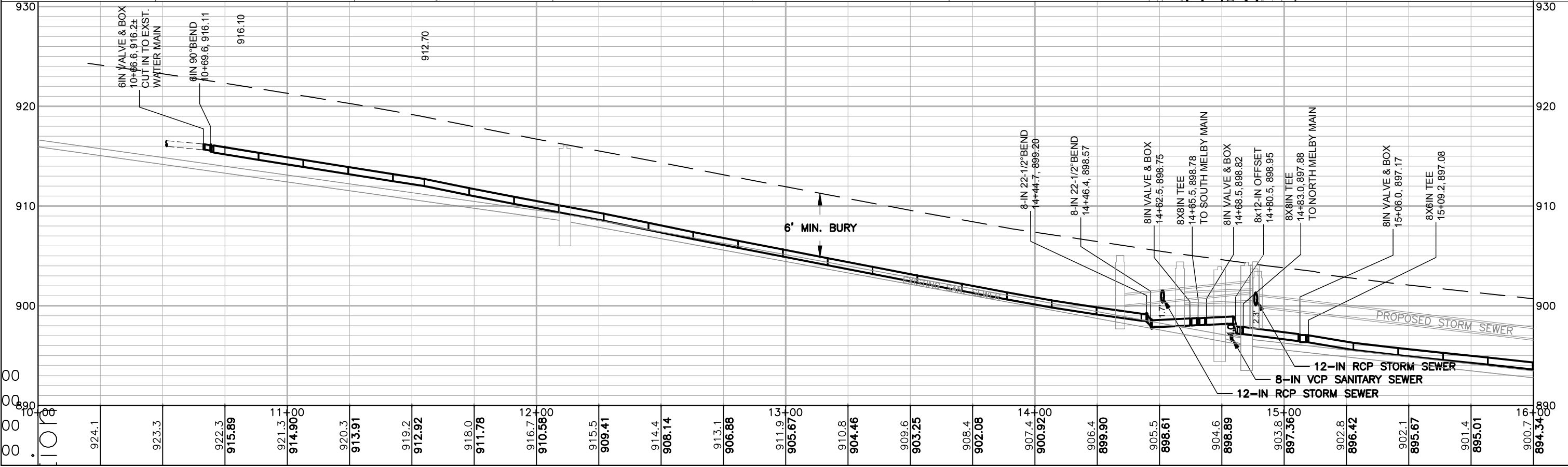
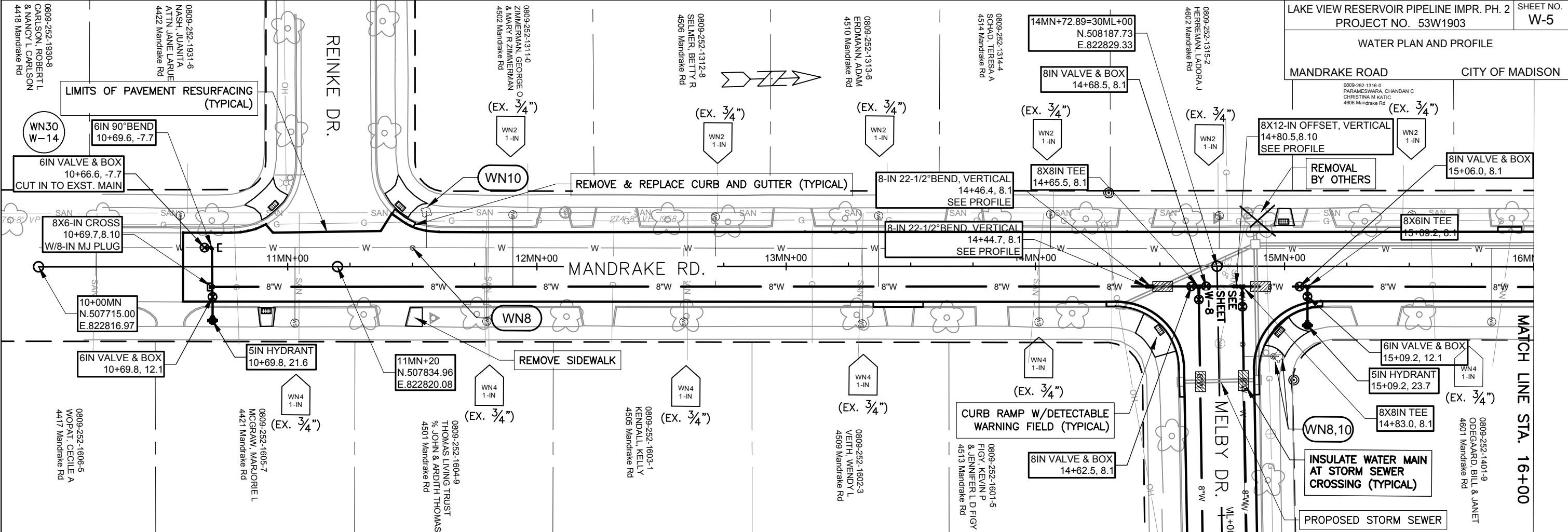


PLOT SCALE: 1"=40'  
 PLOT NAME: #####  
 REV. DATE: \_\_\_\_\_  
 ORIGINATOR: \_\_\_\_\_

WATER PLAN AND PROFILE

MANDRAKE ROAD CITY OF MADISON

0809-252-1316-0  
PARAMESWARA, CHANDAN C  
CHRISTINA M KATIC  
4606 Mandrake Rd



PLOT SCALE: 1"=40'

REV. DATE: -----

ORIGINATOR: ----

WATER PLAN AND PROFILE

MANDRAKE ROAD CITY OF MADISON

0809-252-0809-6  
ROMERO, JARED K  
AMANDA R ROMERO  
4710 Mandrake Rd

PRAIG & LISA  
RD

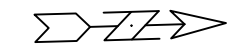
0809-252-0808-8  
BALTHAZOR, CHRISTOPHER K  
& GINA M BALTHAZOR  
4702 Mandrake Rd

LIMITS OF PAVEMENT RESURFACING  
(TYPICAL)

CONNECT TO EXISTING  
8X6-IN CROSS, SALVAGE PLUG  
PLUG WEST END OF CROSS W/6-IN  
MJ PLUG AT ABANDONMENT

WN31  
W-15

WN34  
W-15



0809-252-1317-8  
HOFFMAN, DANIEL T  
& KATHLEEN M HOFFMAN  
4610 Mandrake Rd

0809-252-1318-6  
NASH, JOHN A  
4614 Mandrake Rd

(EX. 3/4")  
WN2  
1-IN

(EX. 3/4")  
WN8

PROPOSED STORM SEWER

MANDRAKE RD.  
17MN+00

17+90.6  
N.508505.35  
E.822838.39

19MN+00  
N.508614.68  
E.822841.10

8IN VALVE & BOX  
17+39.8, 8.1

REMOVE & REPLACE CURB AND GUTTER (TYPICAL)

INSULATE WATER MAIN AT  
STORM SEWER  
CROSSING (TYPICAL)

0809-252-1432-4  
KASMAREK, JEREMY M  
1101 Northland Dr

SERVED OFF  
NORTHLAND DR.

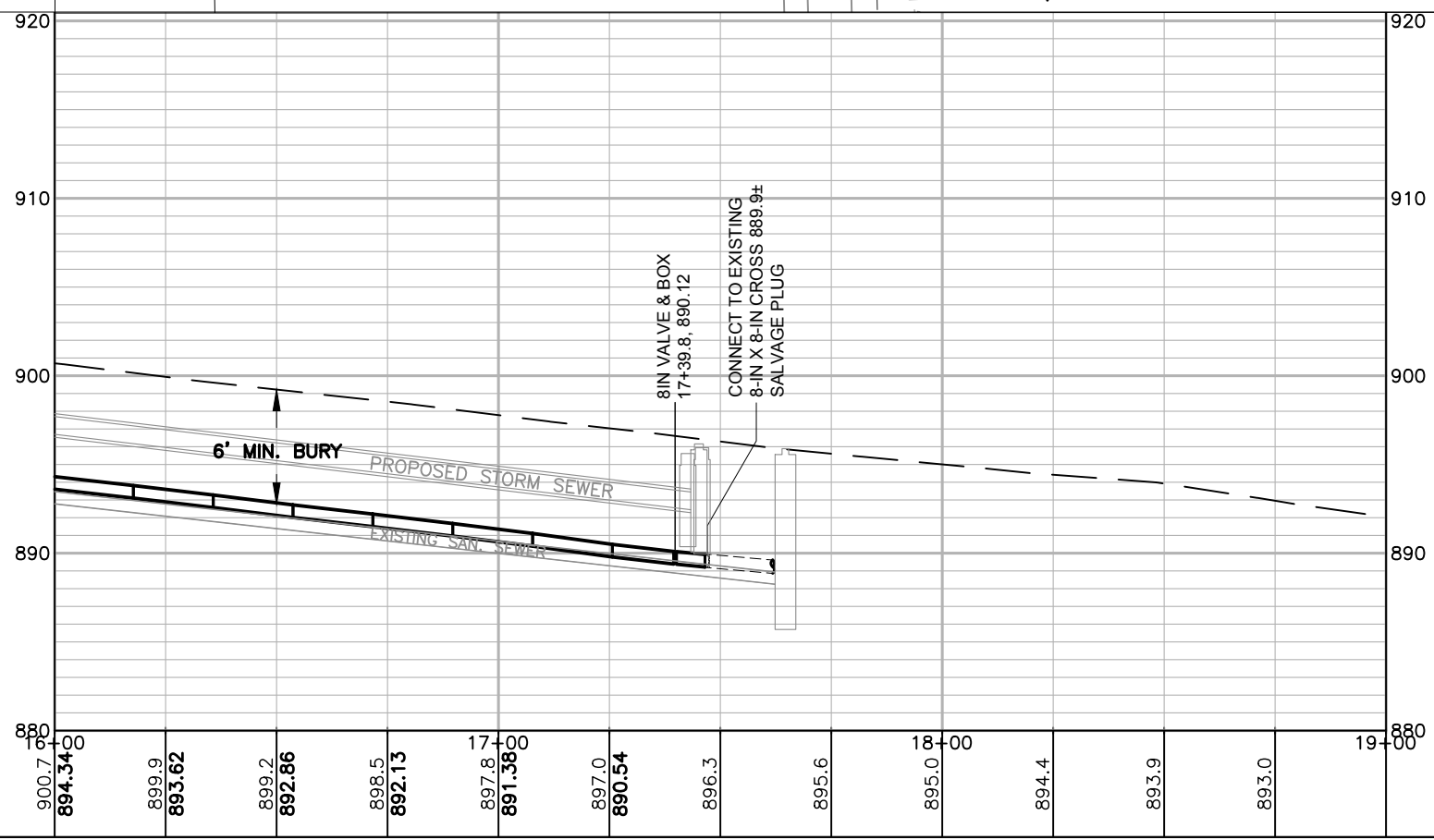
0809-252-0706-4  
CORBIN, ADAM M  
CATHERINE A CORBIN  
4701 Mandrake Rd

0809-252-0705-6  
BLANKENHEIM, PHILIP A  
4705 Mandrake Rd

0809-252-0704-8  
MONROE, KEVIN A  
JAMIE L MONROE  
4707 Mandrake Rd

0809-252-0703-0  
ELY, JAMES G  
4713 Mandrake Rd

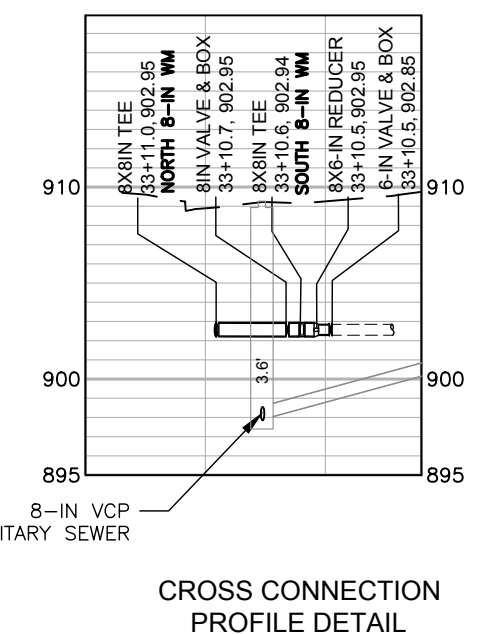
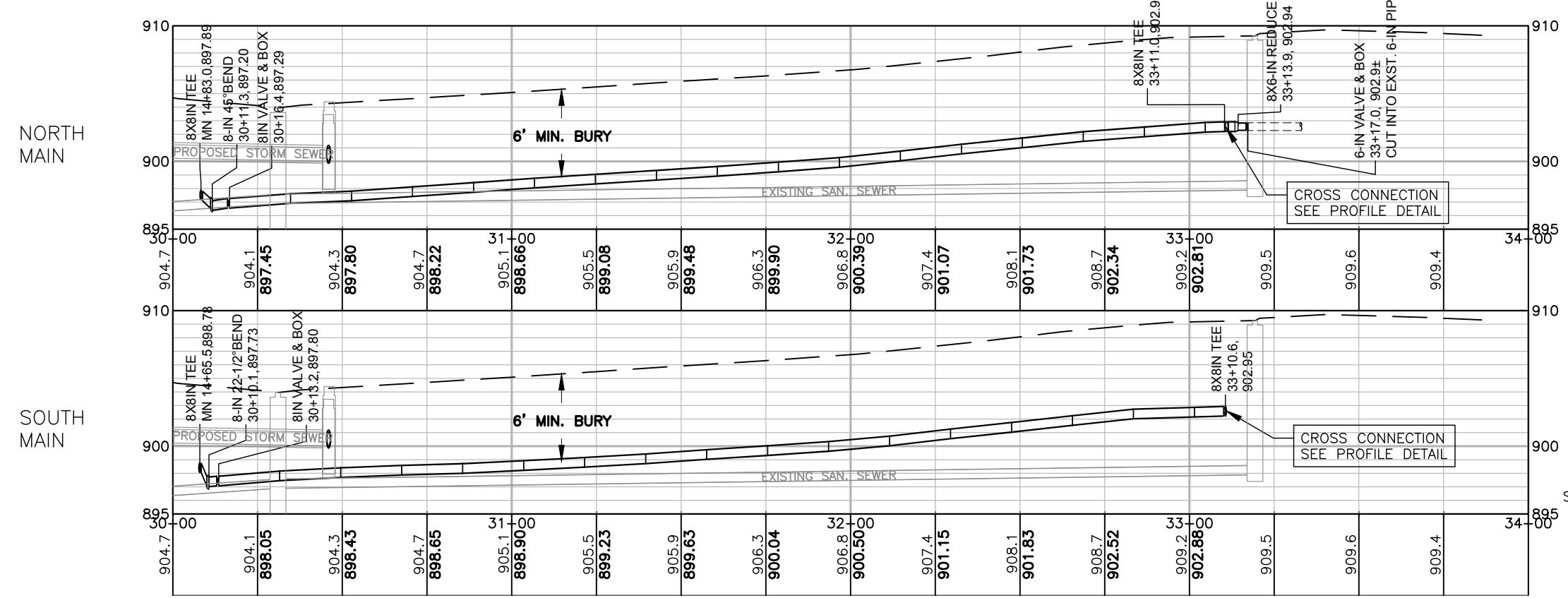
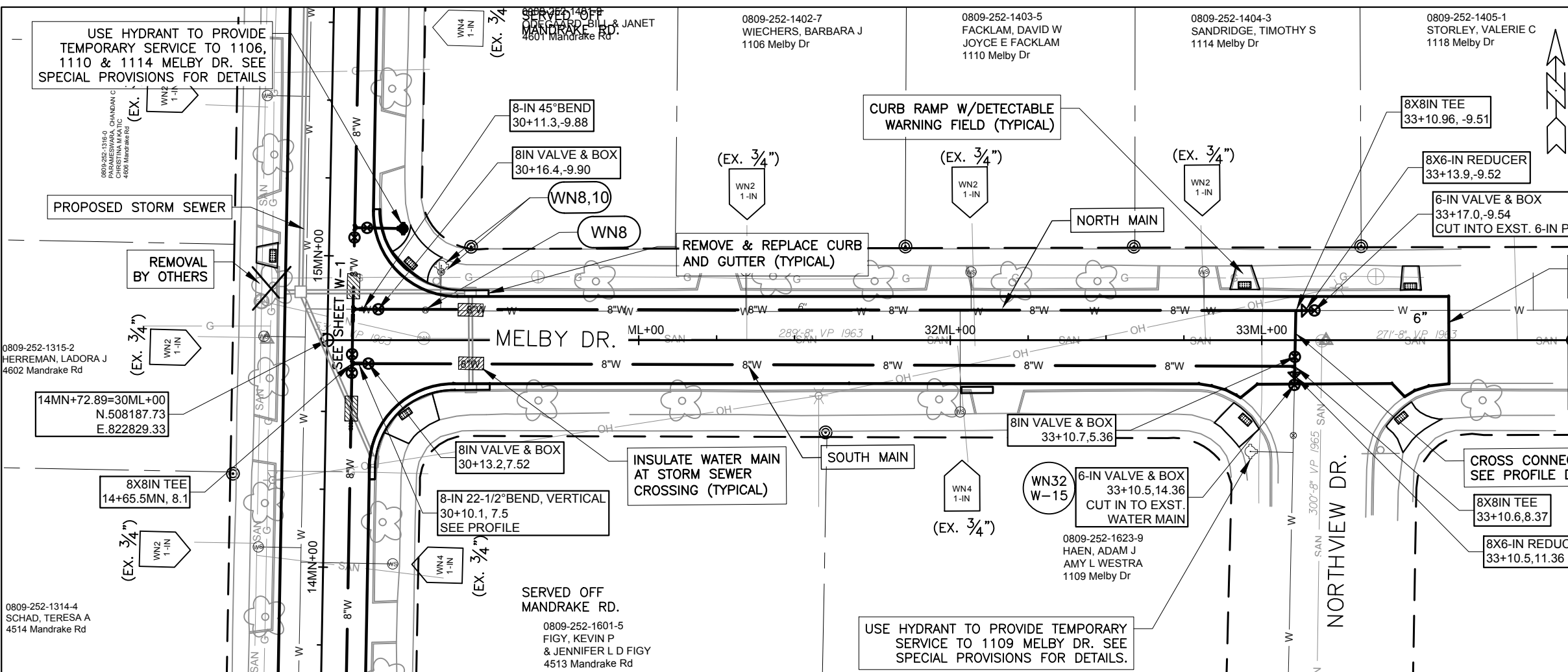
MATCH LINE STA. 16+00



PLOT SCALE: 1"=40'

REV. DATE: #####

ORIGINATOR: ----

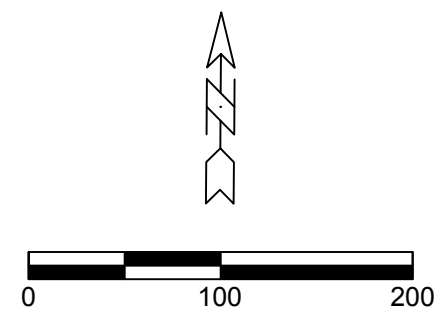
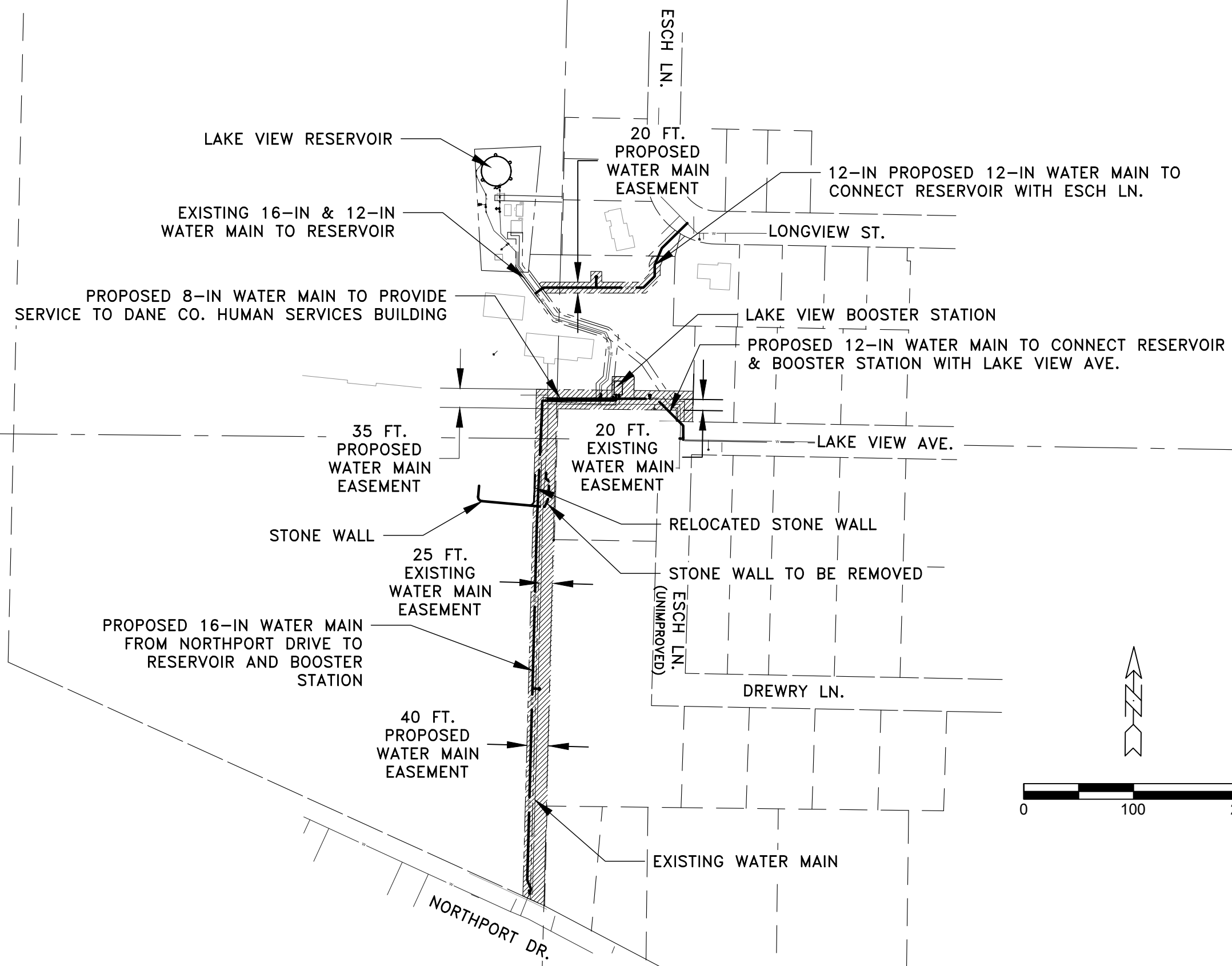


CROSS CONNECTION PROFILE DETAIL

PLOT SCALE: 1"=40'

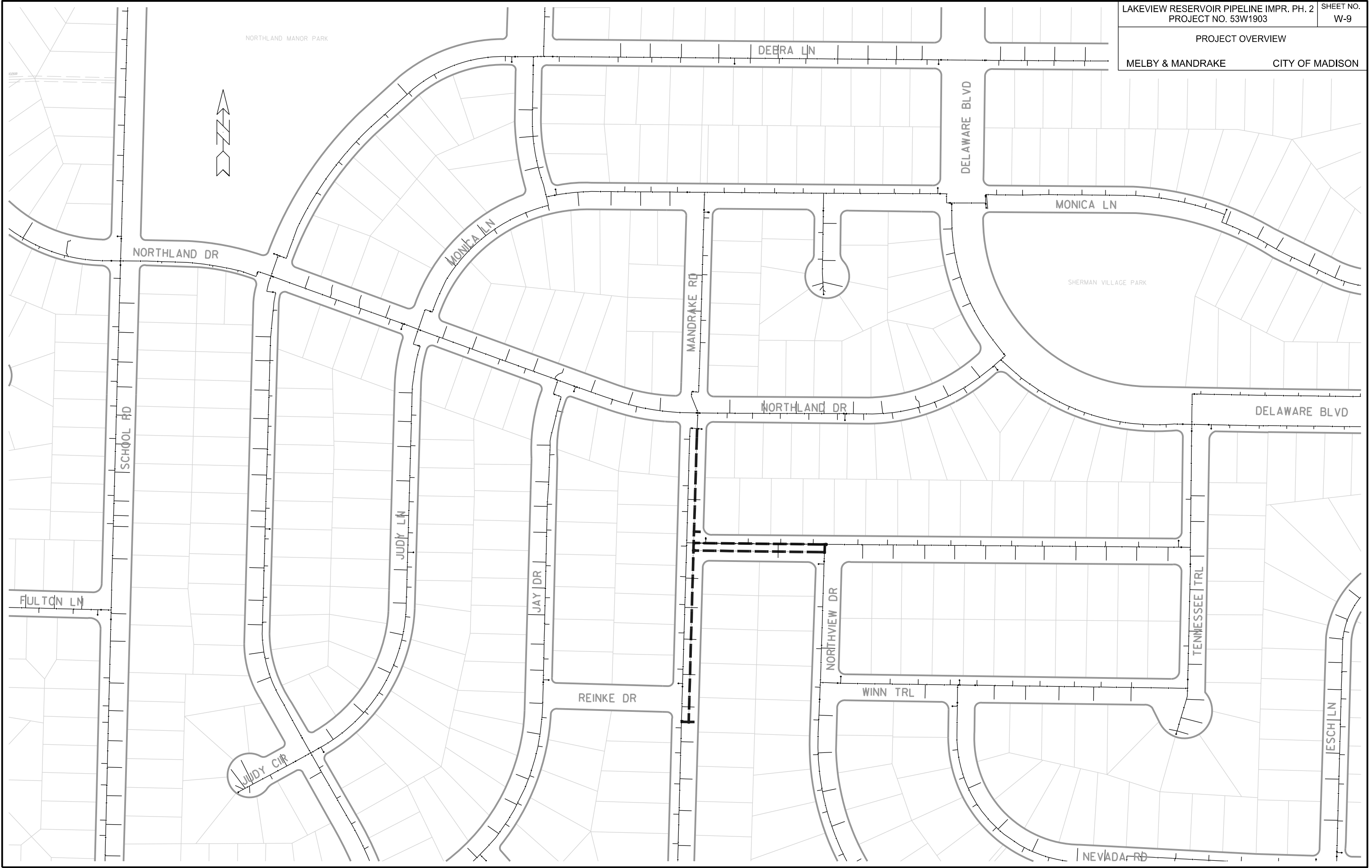
REV. DATE: #/##/##

ORIGINATOR: #/##/##



- PROPERTY LINE
- EASEMENT BOUNDARY LINE
- SECTION LINE
- RIGHT-OF-WAY LINE
- ////// PERMANENT EASEMENT REQUIRED





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

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



DANE COUNTY HUMAN SERVICES  
LAKE VIEW HILL PARK

1202

1405

1417

WN20  
W-1

PLUG REMOVAL CONNECTION  
NORTHPORT AT DANE COUNTY HS

- ISOLATION VALVES:  
 - V-1566 (8" DCHS AT NORTHPORT)  
 - V-1567 (12" DCHS AT NORTHPORT)  
 SECONDARY VALVES:  
 - V-1568 (12" NORTHPORT AT DCHS)  
 - V-1569 (12" NORTHPORT AT DCHS)  
 - V-5 (8" WEST OF BOOSTER STATION  
 PARKING LOT, SEE W-11)

NOTIFICATION  
 - MADISON WATER UTILITY

TO VALVE V-5  
SEE W-11

PROPOSED ZONE 6  
8-IN (ZONE 6)

CUT & CAP/PLUG EXISTING MAIN  
NORTHPORT AT DANE COUNTY HS

WN21  
W-1

- ISOLATION VALVES:  
 - V-1566 (8" DCHS AT NORTHPORT)  
 - V-1567 (12" DCHS AT NORTHPORT)  
 - NEW 16" (DCHS AT NORTHPORT)

- SECONDARY VALVES:  
 - V-1568 (12" NORTHPORT AT DCHS)  
 - V-1569 (12" NORTHPORT AT DCHS)  
 - V-5 (8" WEST OF BOOSTER STATION  
 PARKING LOT, SEE W-11)

NOTIFICATION  
 - MADISON WATER UTILITY

NOTE:  
 - OPERATION TO BE PERFORMED  
 ONLY AFTER PROPOSED 16-IN  
 MAIN IS CONNECTED AT NORTH-  
 PORT DR (WN20), 16-IN FEED TO  
 THE RESERVOIR (WN24) AND THE  
 BOOSTER STATION (WN25). EXISTING  
 8-IN MAIN TO REMAIN FUNCTIONAL  
 UNTIL THEN

NEW 16" V-1566

V-1569 V-1567 V-1568

1402

1406

1410 1414

1305

1313

1315

NORTHPORT DR

1422

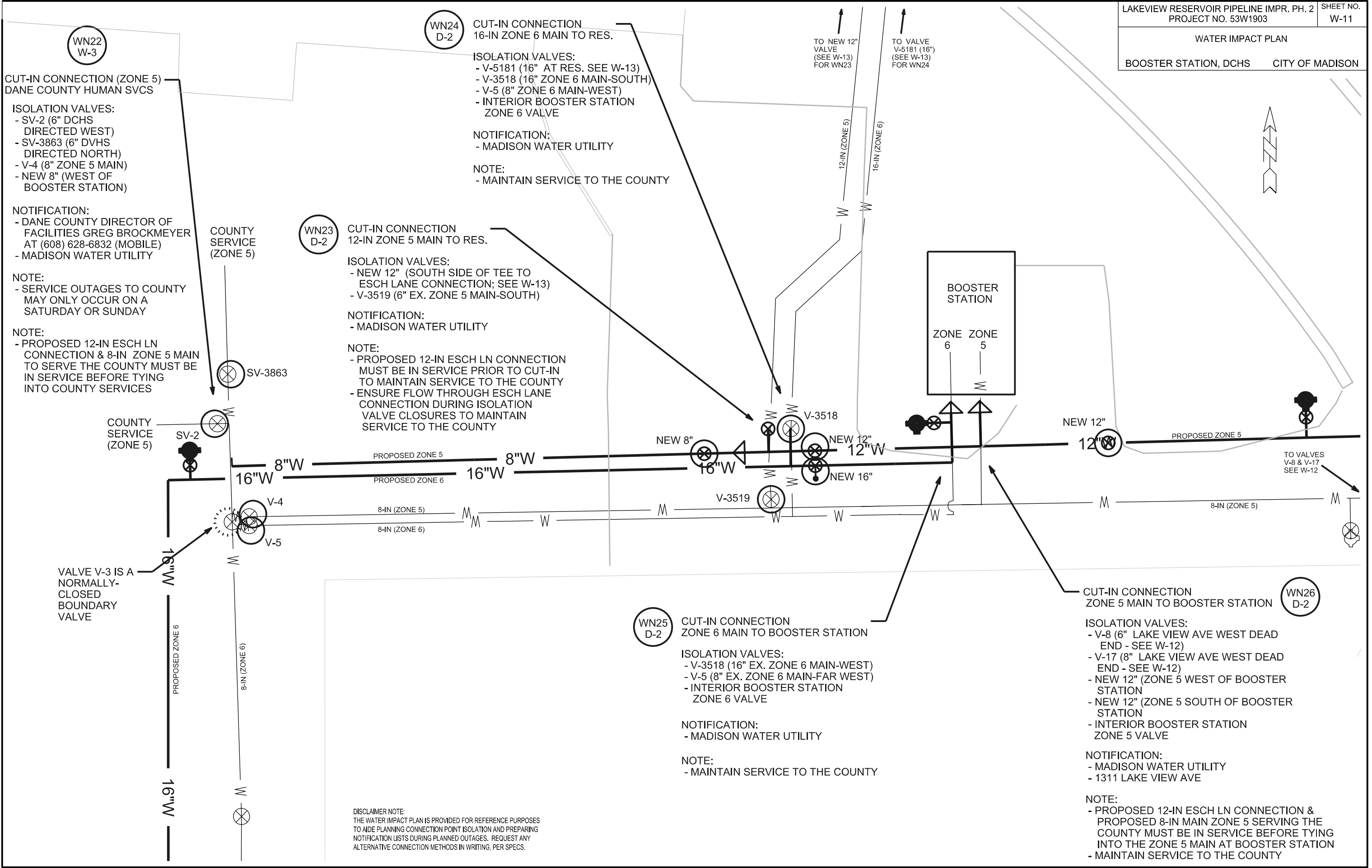
DISCLAIMER NOTE:  
 THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES  
 TO AIDE PLANNING CONNECTION POINT ISOLATION AND PREPARING  
 NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY  
 ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

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

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



**WN22 W-3**

CUT-IN CONNECTION (ZONE 5)  
DANE COUNTY HUMAN SVCS

ISOLATION VALVES:  
- SV-2 (6" DCHS DIRECTED WEST)  
- SV-3863 (6" DVHS DIRECTED NORTH)  
- V-4 (8" ZONE 5 MAIN)  
- NEW 8" (WEST OF BOOSTER STATION)

NOTIFICATION:  
- DANE COUNTY DIRECTOR OF FACILITIES GREG BROCKMEYER AT (608) 628-6832 (MOBILE)  
- MADISON WATER UTILITY

NOTE:  
- SERVICE OUTAGES TO COUNTY MAY ONLY OCCUR ON A SATURDAY OR SUNDAY

**WN23 D-2**

CUT-IN CONNECTION  
12-IN ZONE 5 MAIN TO RES.

ISOLATION VALVES:  
- NEW 12" (SOUTH SIDE OF TEE TO ESCH LANE CONNECTION; SEE W-13)  
- V-3519 (6" EX. ZONE 5 MAIN-SOUTH)

NOTIFICATION:  
- MADISON WATER UTILITY

NOTE:  
- PROPOSED 12-IN ESCH LN CONNECTION & 8-IN ZONE 5 MAIN TO SERVE THE COUNTY MUST BE IN SERVICE BEFORE TYING INTO COUNTY SERVICES

**WN24 D-2**

CUT-IN CONNECTION  
16-IN ZONE 6 MAIN TO RES.

ISOLATION VALVES:  
- V-5181 (16" AT RES. SEE W-13)  
- V-3518 (16" ZONE 6 MAIN-SOUTH)  
- V-5 (8" ZONE 6 MAIN-WEST)  
- INTERIOR BOOSTER STATION ZONE 6 VALVE

NOTIFICATION:  
- MADISON WATER UTILITY

NOTE:  
- MAINTAIN SERVICE TO THE COUNTY

**WN25 D-2**

CUT-IN CONNECTION  
ZONE 6 MAIN TO BOOSTER STATION

ISOLATION VALVES:  
- V-3518 (16" EX. ZONE 6 MAIN-WEST)  
- V-5 (8" EX. ZONE 6 MAIN-FAR WEST)  
- INTERIOR BOOSTER STATION ZONE 6 VALVE

NOTIFICATION:  
- MADISON WATER UTILITY

NOTE:  
- MAINTAIN SERVICE TO THE COUNTY

**WN26 D-2**

CUT-IN CONNECTION  
ZONE 5 MAIN TO BOOSTER STATION

ISOLATION VALVES:  
- V-8 (6" LAKE VIEW AVE WEST DEAD END - SEE W-12)  
- V-17 (8" LAKE VIEW AVE WEST DEAD END - SEE W-12)  
- NEW 12" (ZONE 5 WEST OF BOOSTER STATION)  
- NEW 12" (ZONE 5 SOUTH OF BOOSTER STATION)  
- INTERIOR BOOSTER STATION ZONE 5 VALVE

NOTIFICATION:  
- MADISON WATER UTILITY  
- 1311 LAKE VIEW AVE

NOTE:  
- PROPOSED 12-IN ESCH LN CONNECTION & PROPOSED 8-IN MAIN ZONE 5 SERVING THE COUNTY MUST BE IN SERVICE BEFORE TYING INTO THE ZONE 5 MAIN AT BOOSTER STATION  
- MAINTAIN SERVICE TO THE COUNTY

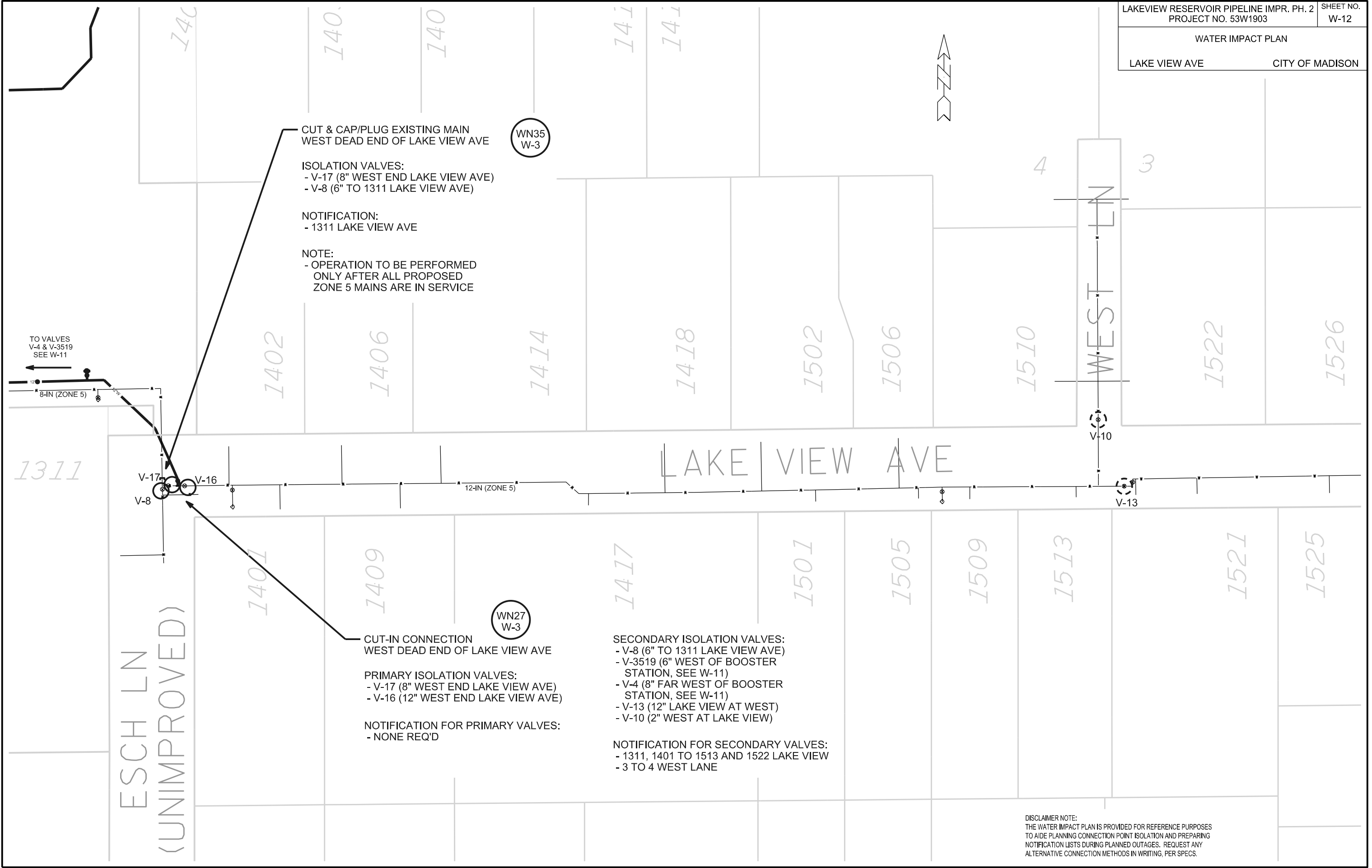
DISCLAIMER NOTE:  
THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES TO AIDE PLANNING CONNECTION POINT ISOLATION AND PREPARING NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

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

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



**CUT & CAP/PLUG EXISTING MAIN**  
WEST DEAD END OF LAKE VIEW AVE

**ISOLATION VALVES:**  
- V-17 (8" WEST END LAKE VIEW AVE)  
- V-8 (6" TO 1311 LAKE VIEW AVE)

**NOTIFICATION:**  
- 1311 LAKE VIEW AVE

**NOTE:**  
- OPERATION TO BE PERFORMED ONLY AFTER ALL PROPOSED ZONE 5 MAINS ARE IN SERVICE

**CUT-IN CONNECTION**  
WEST DEAD END OF LAKE VIEW AVE

**PRIMARY ISOLATION VALVES:**  
- V-17 (8" WEST END LAKE VIEW AVE)  
- V-16 (12" WEST END LAKE VIEW AVE)

**NOTIFICATION FOR PRIMARY VALVES:**  
- NONE REQ'D

**SECONDARY ISOLATION VALVES:**  
- V-8 (6" TO 1311 LAKE VIEW AVE)  
- V-3519 (6" WEST OF BOOSTER STATION, SEE W-11)  
- V-4 (8" FAR WEST OF BOOSTER STATION, SEE W-11)  
- V-13 (12" LAKE VIEW AT WEST)  
- V-10 (2" WEST AT LAKE VIEW)

**NOTIFICATION FOR SECONDARY VALVES:**  
- 1311, 1401 TO 1513 AND 1522 LAKE VIEW  
- 3 TO 4 WEST LANE

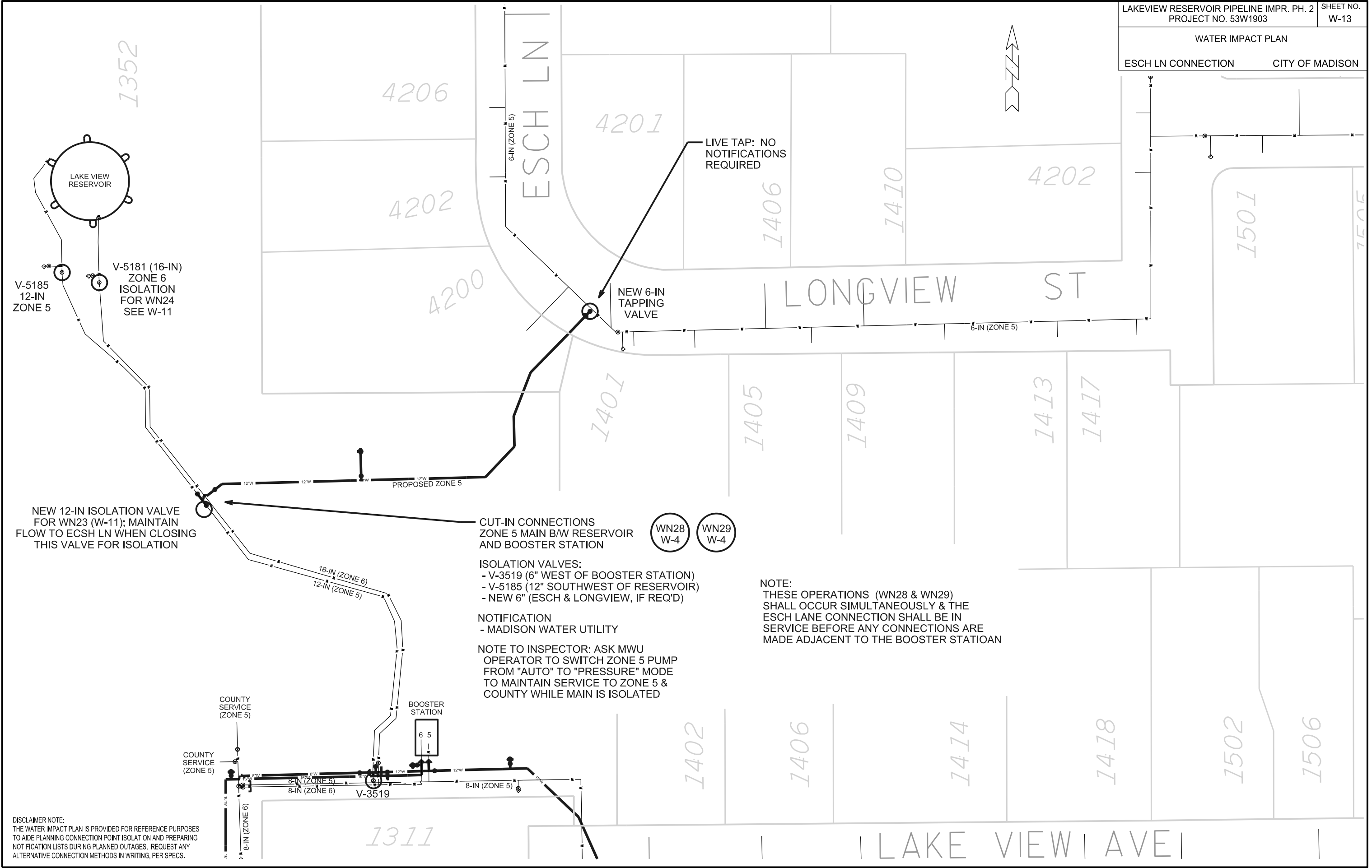
**DISCLAIMER NOTE:**  
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PLOT SCALE: \_\_\_\_\_

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



LIVE TAP: NO NOTIFICATIONS REQUIRED

NEW 6-IN TAPPING VALVE

PROPOSED ZONE 5

NEW 12-IN ISOLATION VALVE FOR WN23 (W-11); MAINTAIN FLOW TO EC SH LN WHEN CLOSING THIS VALVE FOR ISOLATION

CUT-IN CONNECTIONS ZONE 5 MAIN B/W RESERVOIR AND BOOSTER STATION



ISOLATION VALVES:  
 - V-3519 (6" WEST OF BOOSTER STATION)  
 - V-5185 (12" SOUTHWEST OF RESERVOIR)  
 - NEW 6" (ESCH & LONGVIEW, IF REQ'D)

NOTIFICATION  
 - MADISON WATER UTILITY

NOTE TO INSPECTOR: ASK MWU OPERATOR TO SWITCH ZONE 5 PUMP FROM "AUTO" TO "PRESSURE" MODE TO MAINTAIN SERVICE TO ZONE 5 & COUNTY WHILE MAIN IS ISOLATED

NOTE:  
 THESE OPERATIONS (WN28 & WN29) SHALL OCCUR SIMULTANEOUSLY & THE ESCH LANE CONNECTION SHALL BE IN SERVICE BEFORE ANY CONNECTIONS ARE MADE ADJACENT TO THE BOOSTER STATION

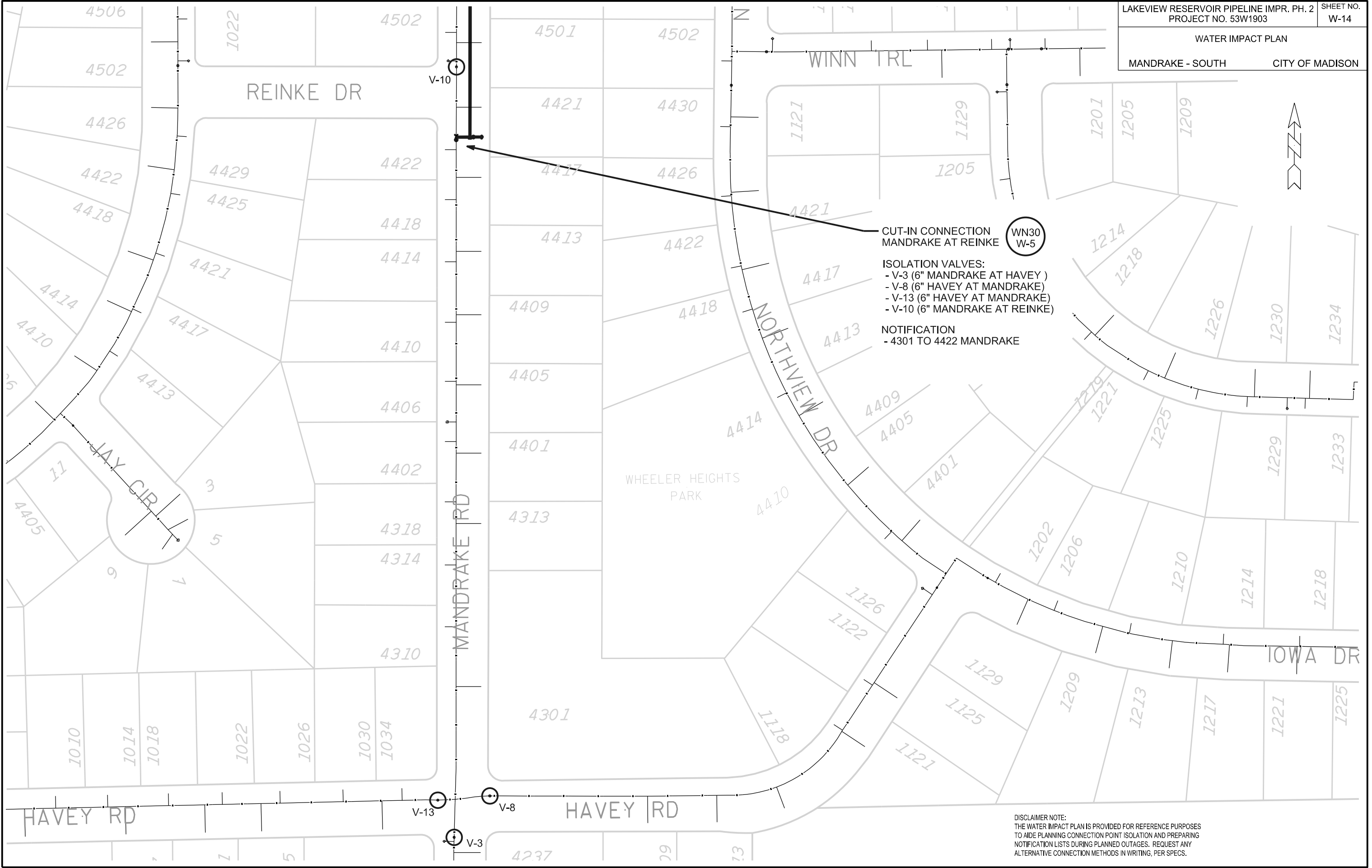
DISCLAIMER NOTE:  
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PLOT SCALE: \_\_\_\_\_

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



**CUT-IN CONNECTION**  
MANDRAKE AT REINKE

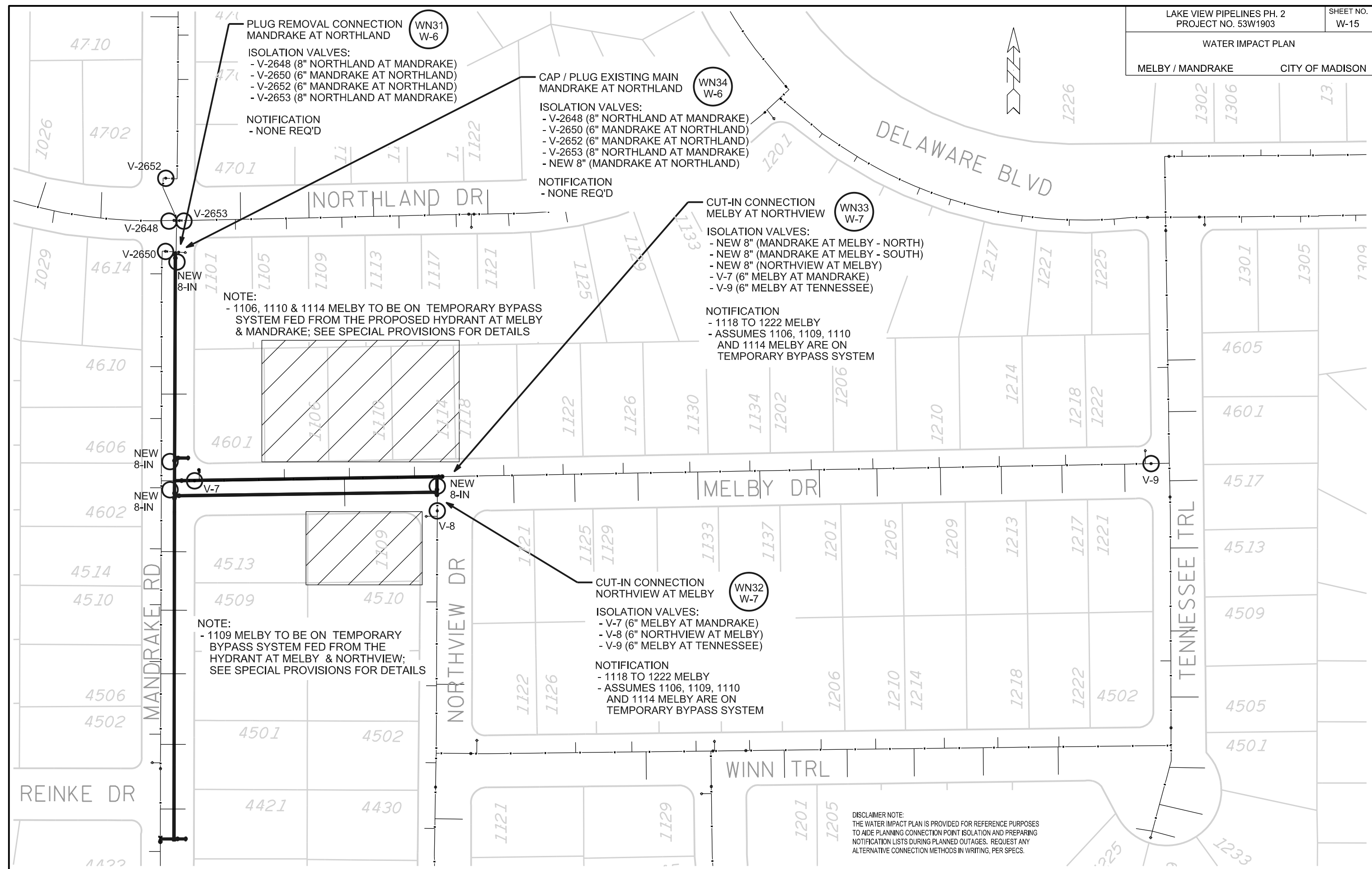
**ISOLATION VALVES:**  
 - V-3 (6" MANDRAKE AT HAVEY )  
 - V-8 (6" HAVEY AT MANDRAKE)  
 - V-13 (6" HAVEY AT MANDRAKE)  
 - V-10 (6" MANDRAKE AT REINKE)

**NOTIFICATION**  
 - 4301 TO 4422 MANDRAKE

WN30  
W-5

DISCLAIMER NOTE:  
 THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES  
 TO AIDE PLANNING CONNECTION POINT ISOLATION AND PREPARING  
 NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY  
 ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

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



**PLUG REMOVAL CONNECTION  
MANDRAKE AT NORTHLAND** (WN31 W-6)

ISOLATION VALVES:  
 - V-2648 (8" NORTHLAND AT MANDRAKE)  
 - V-2650 (6" MANDRAKE AT NORTHLAND)  
 - V-2652 (6" MANDRAKE AT NORTHLAND)  
 - V-2653 (8" NORTHLAND AT MANDRAKE)

NOTIFICATION  
 - NONE REQ'D

**CAP / PLUG EXISTING MAIN  
MANDRAKE AT NORTHLAND** (WN34 W-6)

ISOLATION VALVES:  
 - V-2648 (8" NORTHLAND AT MANDRAKE)  
 - V-2650 (6" MANDRAKE AT NORTHLAND)  
 - V-2652 (6" MANDRAKE AT NORTHLAND)  
 - V-2653 (8" NORTHLAND AT MANDRAKE)  
 - NEW 8" (MANDRAKE AT NORTHLAND)

NOTIFICATION  
 - NONE REQ'D

**CUT-IN CONNECTION  
MELBY AT NORTHVIEW** (WN33 W-7)

ISOLATION VALVES:  
 - NEW 8" (MANDRAKE AT MELBY - NORTH)  
 - NEW 8" (MANDRAKE AT MELBY - SOUTH)  
 - NEW 8" (NORTHVIEW AT MELBY)  
 - V-7 (6" MELBY AT MANDRAKE)  
 - V-9 (6" MELBY AT TENNESSEE)

NOTIFICATION  
 - 1118 TO 1222 MELBY  
 - ASSUMES 1106, 1109, 1110  
 AND 1114 MELBY ARE ON  
 TEMPORARY BYPASS SYSTEM

**NOTE:**  
 - 1106, 1110 & 1114 MELBY TO BE ON TEMPORARY BYPASS  
 SYSTEM FED FROM THE PROPOSED HYDRANT AT MELBY  
 & MANDRAKE; SEE SPECIAL PROVISIONS FOR DETAILS

**NOTE:**  
 - 1109 MELBY TO BE ON TEMPORARY  
 BYPASS SYSTEM FED FROM THE  
 HYDRANT AT MELBY & NORTHVIEW;  
 SEE SPECIAL PROVISIONS FOR DETAILS

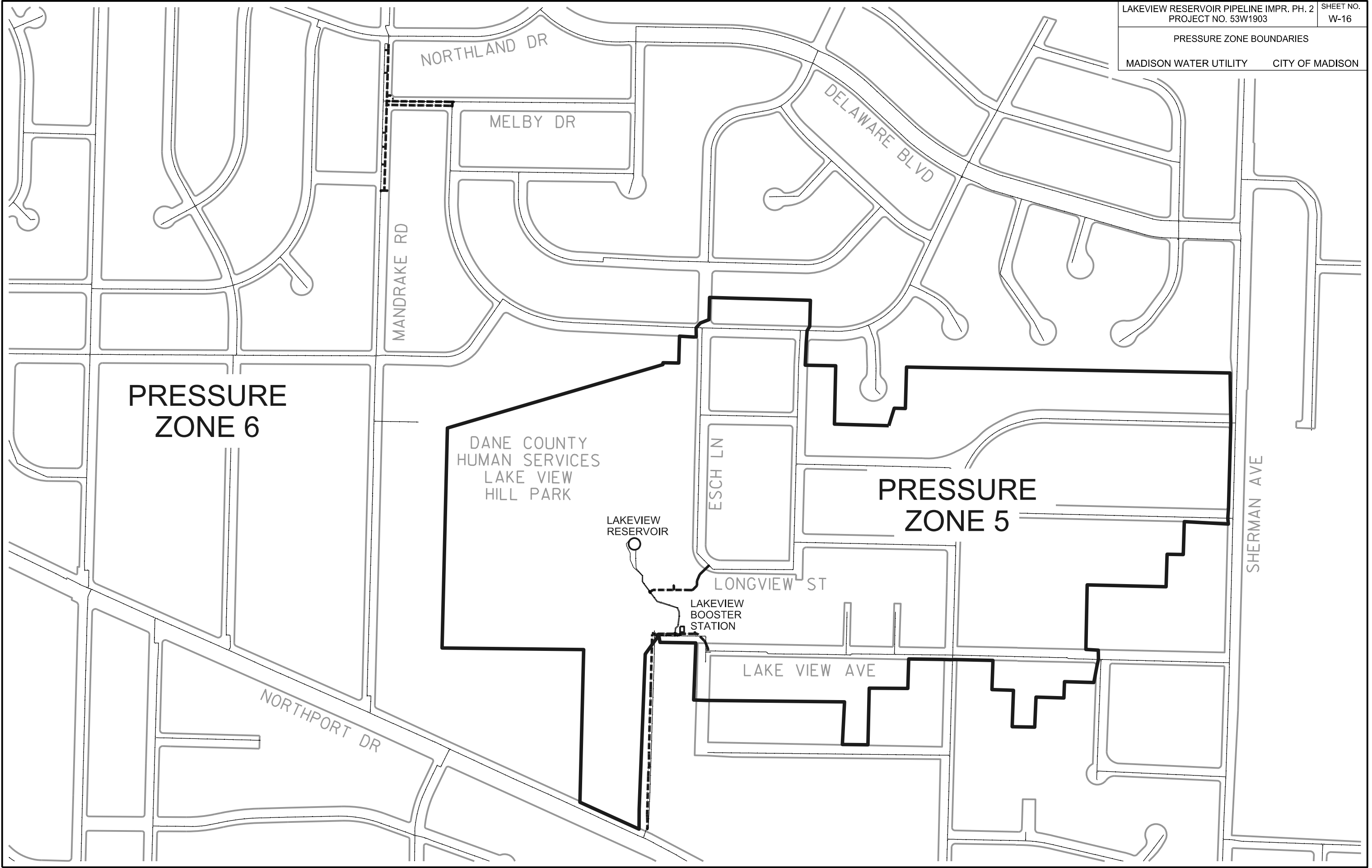
**CUT-IN CONNECTION  
NORTHVIEW AT MELBY** (WN32 W-7)

ISOLATION VALVES:  
 - V-7 (6" MELBY AT MANDRAKE)  
 - V-8 (6" NORTHVIEW AT MELBY)  
 - V-9 (6" MELBY AT TENNESSEE)

NOTIFICATION  
 - 1118 TO 1222 MELBY  
 - ASSUMES 1106, 1109, 1110  
 AND 1114 MELBY ARE ON  
 TEMPORARY BYPASS SYSTEM

**DISCLAIMER NOTE:**  
 THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES  
 TO AIDE PLANNING CONNECTION POINT ISOLATION AND PREPARING  
 NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY  
 ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

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:**

- 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.
- VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
- MINIMIZE DISRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
- 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.

**ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:**

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

- |                                  |                                  |
|----------------------------------|----------------------------------|
| 88-FT 6-IN PIPE                  | 4 - 12-IN 22-1/2° BEND           |
| 1400-FT 8-IN PIPE                | 10 - 12-IN 45° BEND              |
| 540-FT 12-IN PIPE                | 1 - 12-IN X 6-IN REDUCER         |
| 1050-FT 16-IN PIPE               | 2 - 12-IN X 8-IN REDUCER         |
| 3385-FT POLYWRAP                 | 2 - 12-IN X 6-IN TEE             |
| 56-FT 2-IN INSULATION (7 SHEETS) | 4 - 12-IN X 12-IN TEE            |
| 9 - 6-IN VALVE & BOX             | 1 - 16-IN 11/14° BEND            |
| 9 - 8-IN VALVE & BOX             | 1 - 16-IN 22-1/2° BEND           |
| 7 - 12-IN VALVE & BOX            | 2 - 16-IN 90° BEND               |
| 2 - 16-IN VALVE & BOX            | 1 - 16-IN X 8-IN REDUCER         |
| 1 - 6-IN 90° BEND                | 2 - 16-IN X 6-IN TEE             |
| 4 - 8-IN 45° BEND                | 1 - 16-IN X 16-IN TEE            |
| 1 - 8-IN 90° BEND                | 6 - 5-IN HYDRANT (PERMANENT)     |
| 1 - 8-IN X 6-IN TEE              | 2 - 5-IN HYDRANT (TEMP FLUSHING) |
| 4 - 8-IN X 8-IN TEE              | 1-IN COPPER SERVICE (AS NEEDED)  |
| 1 - 8-IN X 6-IN CROSS            |                                  |
| 2 - 8-IN X 6-IN REDUCER          |                                  |
| 1 - 8-IN X 12-IN OFFSET          |                                  |
| 1 - 8-IN MJ PLUG                 |                                  |
| 7 - 8-IN MJ CAP                  |                                  |

**MATERIALS SUPPLIED BY CITY:**

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

- 1 - 6-IN X 6-IN TAPPING SLEEVE W/VALVE & BOX

**ESTIMATE OF MATERIALS SALVAGED:**

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

NONE

**WATER UTILITY ULO SCHEDULE:**

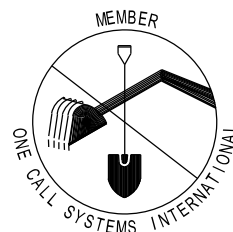
ULO NO.	STATION	OFFSET	DESCRIPTION	SHEET NO.	REMARKS
1	19"16WM"+50	LT	8-IN WATER; 8-IN SANITARY	W-2, W-3	AT 16-IN 90° BEND TO EAST
2	20"16WM"+85	RT	(2) 8-IN WATER	W-2, W-3, D-2	AT BOOSTER STATION

- 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.

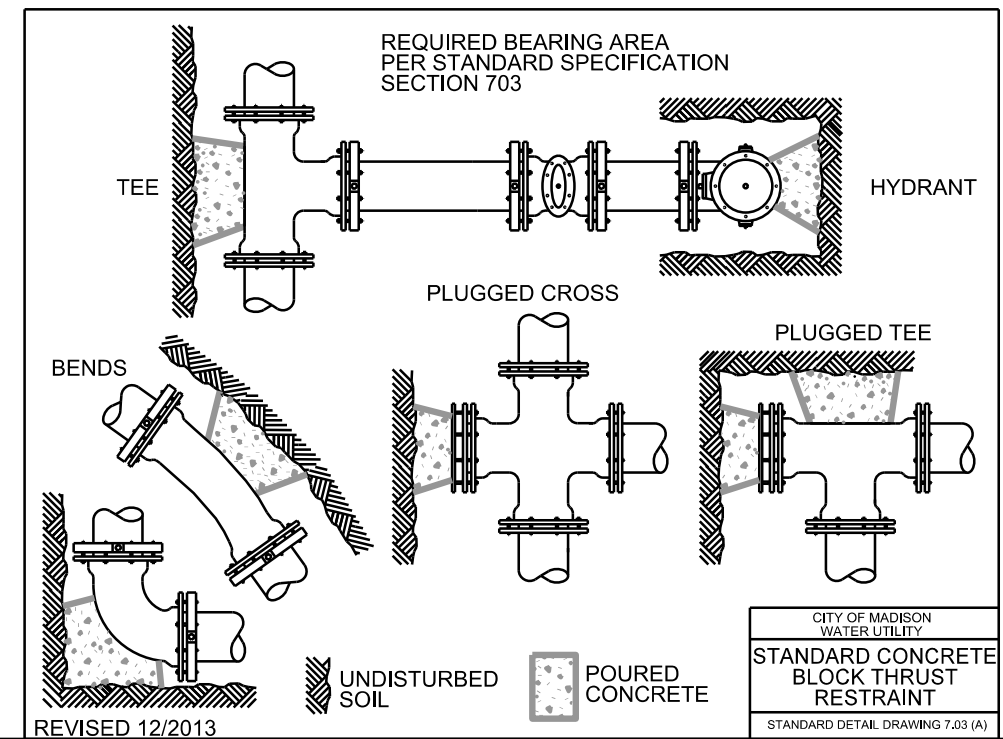
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

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.

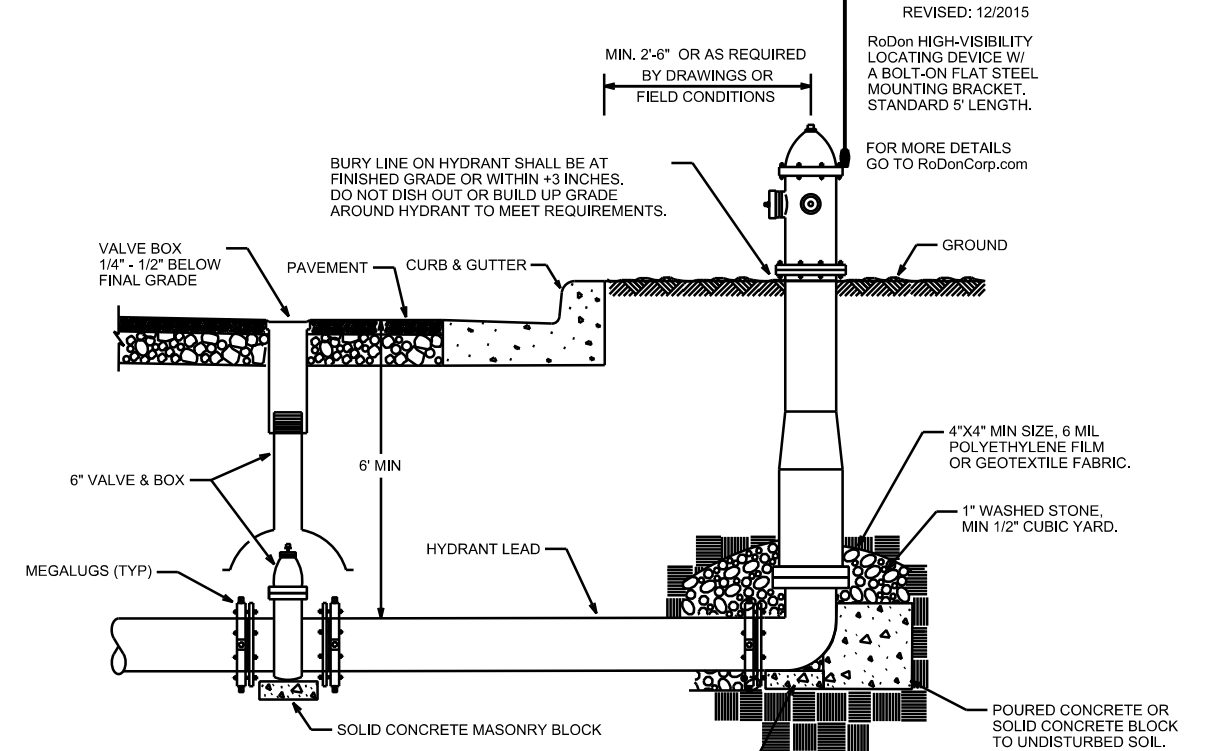


**DISCLAIMER NOTE:**  
 UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.



**PART VII - WATER MAINS AND SERVICE LATERALS**

**DETAIL DRAWING NO. 7.04**



**NOTE:**

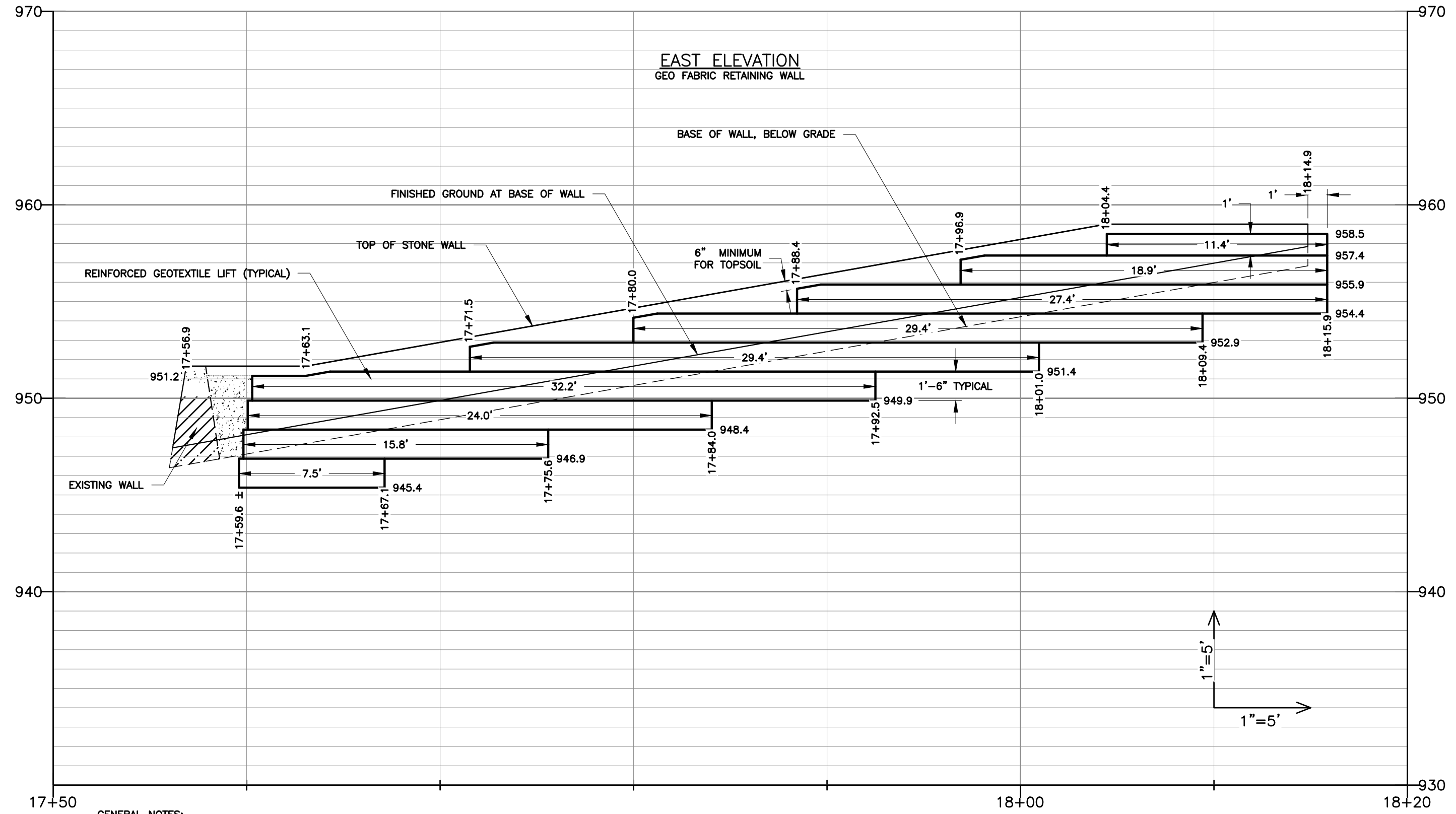
- RESTRAIN ENTIRE LENGTH OF HYDRANT LEAD FROM THE TEE THROUGH THE VALVE TO THE HYDRANT AS SPECIFIED USING JOINT RESTRAINTS PER SECTION 703.10

CITY OF MADISON  
 WATER UTILITY

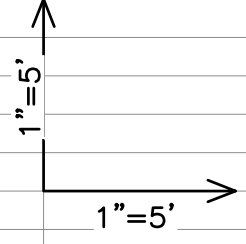
NOT TO SCALE

TYPICAL HYDRANT INSTALLATION

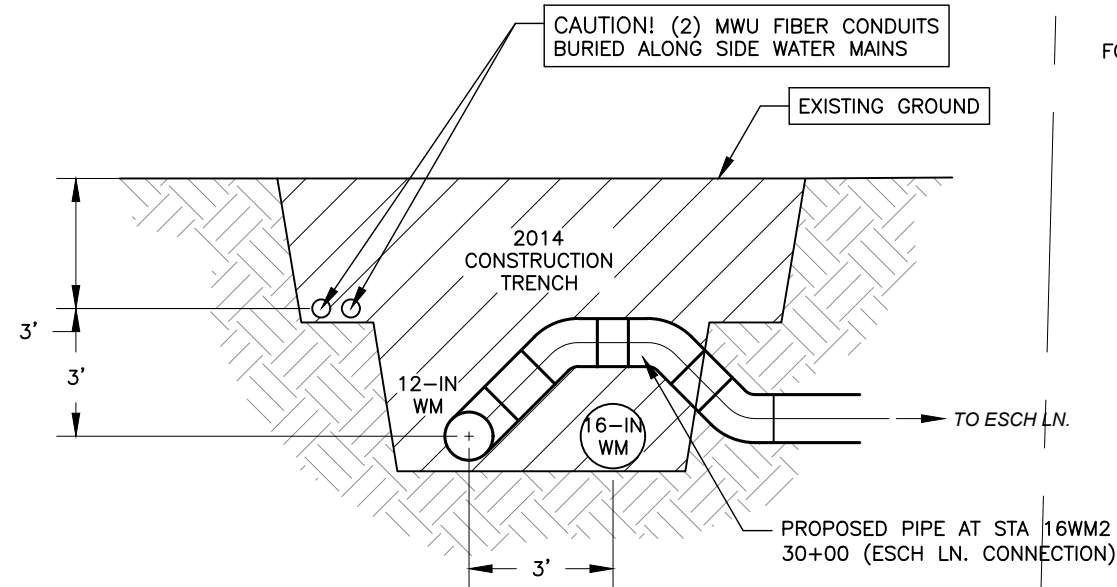




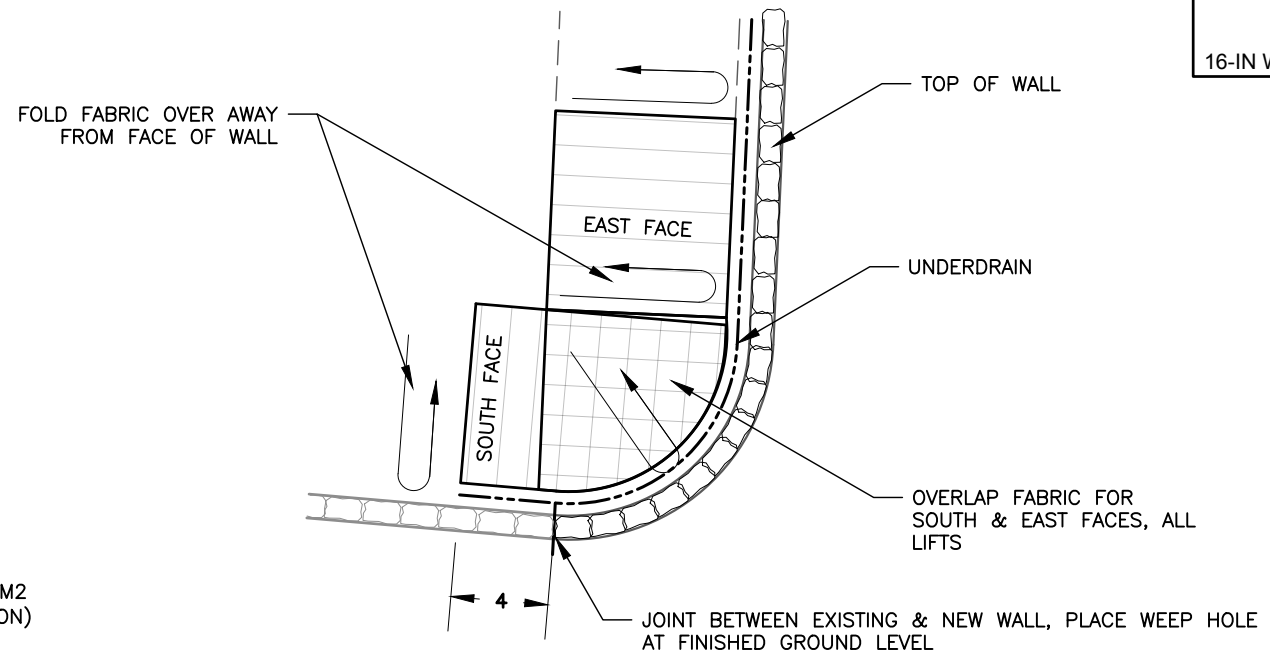
- GENERAL NOTES:**
1. STRUCTURAL COMPOSITION OF EXISTING WALL IS UNKNOWN.
  2. REFER TO AND HOLD TYPICAL WALL CROSS SECTION DIMENSIONS.
  3. BEGIN FABRIC RETENTION SYSTEM ON SOUTH FACE OF WALL 4 FT. WEST OF JOINT BETWEEN NEW AND EXISTING WALL. SEE DETAIL D1-5.



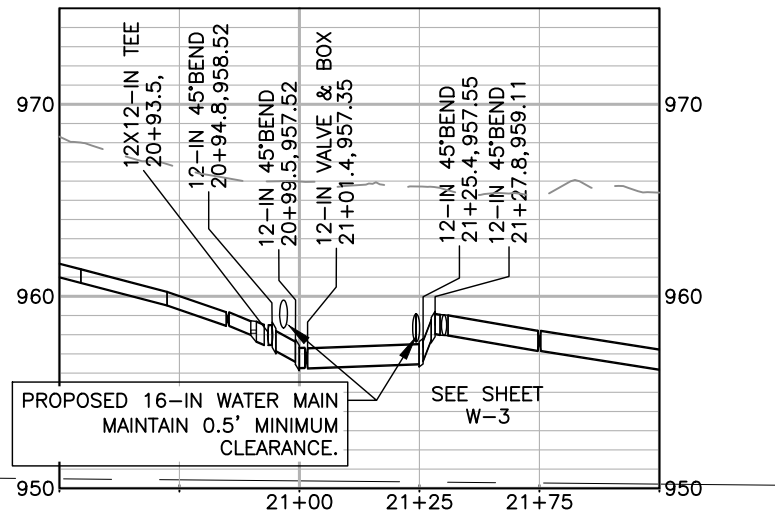
PLOT SCALE: 1"=40'  
 PLOT NAME: #####  
 REV. DATE: \_\_\_\_\_  
 ORIGINATOR: Wudat



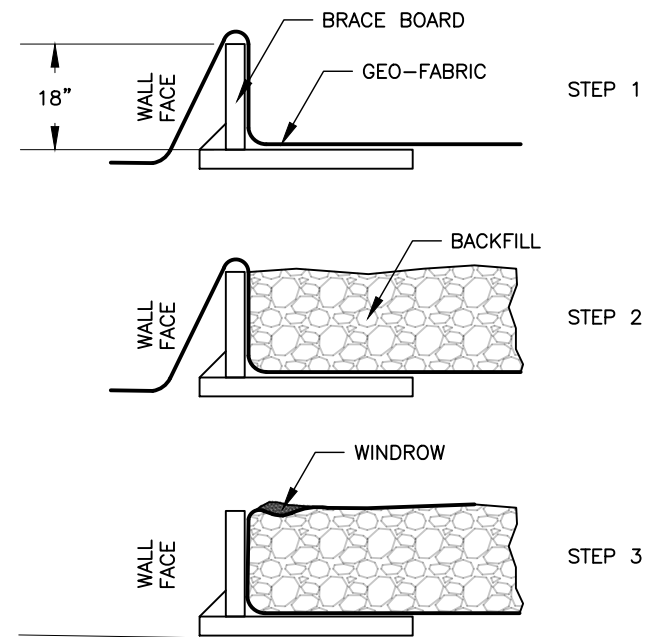
**DETAIL D1-1**  
CROSS SECTION  
LOOKING NORTHERLY AT EXISTING 12-IN & 16-IN WATER MAINS WITH BURIED FIBER OPTIC CONDUIT FROM BOOSTER STATION TO RESERVOIR



**DETAIL D1-3**  
PLAN VIEW  
FABRIC RETENTION SYSTEM AT JUNCTION OF OLD AND NEW WALLS



**DETAIL D1-2**  
PROFILE VIEW, 12-IN WM1  
LOOKING NORTH AT BOOSTER STATION



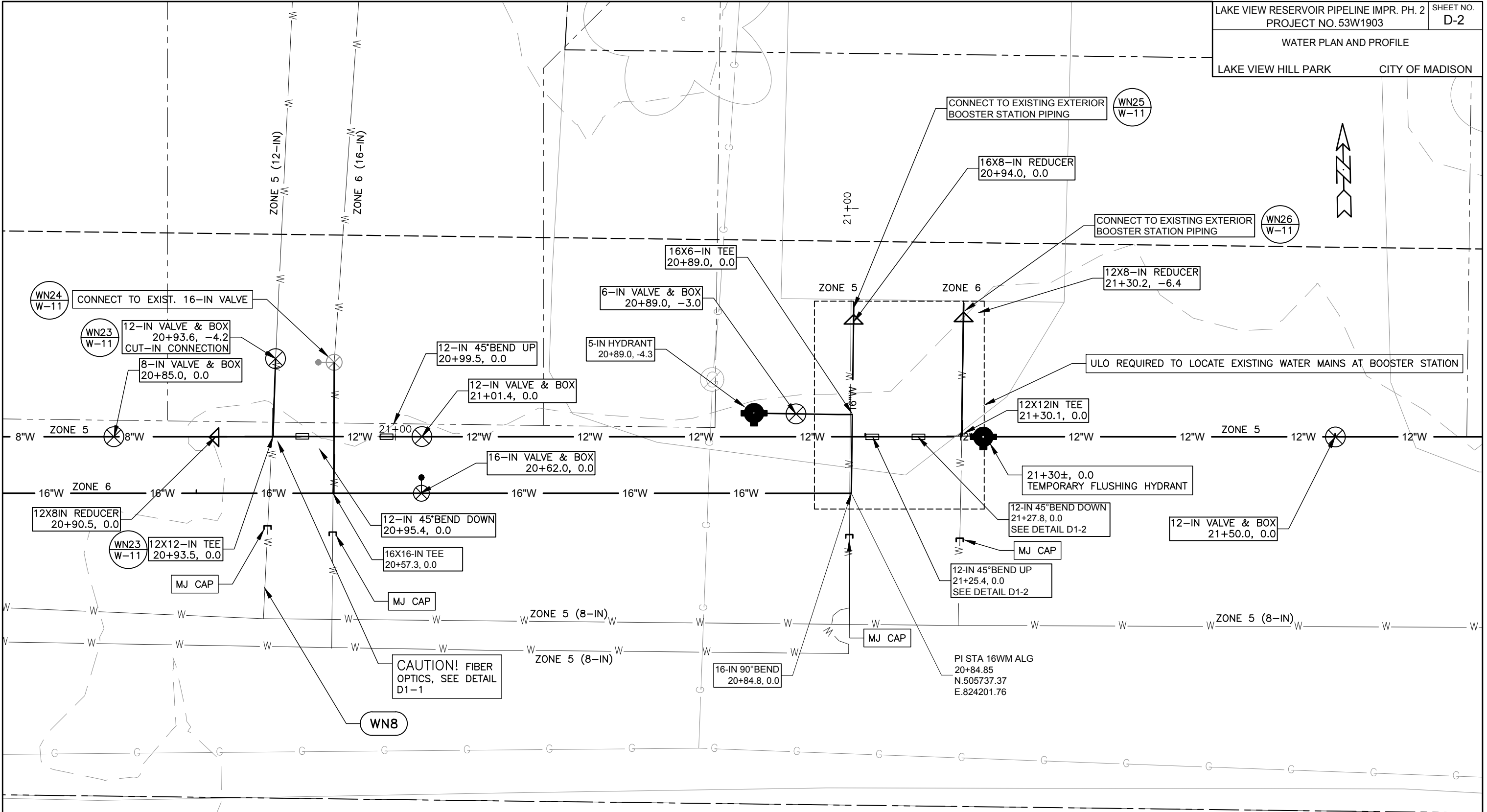
**DETAIL D1-4**  
CONSTRUCTION SEQUENCE OF GEO-FABRIC RETENTION SYSTEM  
SHOWING ONE 18" LIFT

PLOT SCALE: 1"=40'

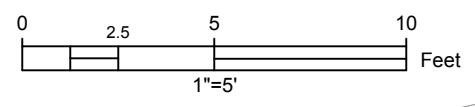
PLOT NAME: #####

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

ORIGINATOR: \_\_\_\_\_



DETAIL D2-1  
 PLAN VIEW  
 16-IN & 12-IN WATER MAINS AT BOOSTER  
 STATION



PLOT SCALE: 1"=40'

PLOT NAME: #####

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

ORIGINATOR: \_\_\_\_\_

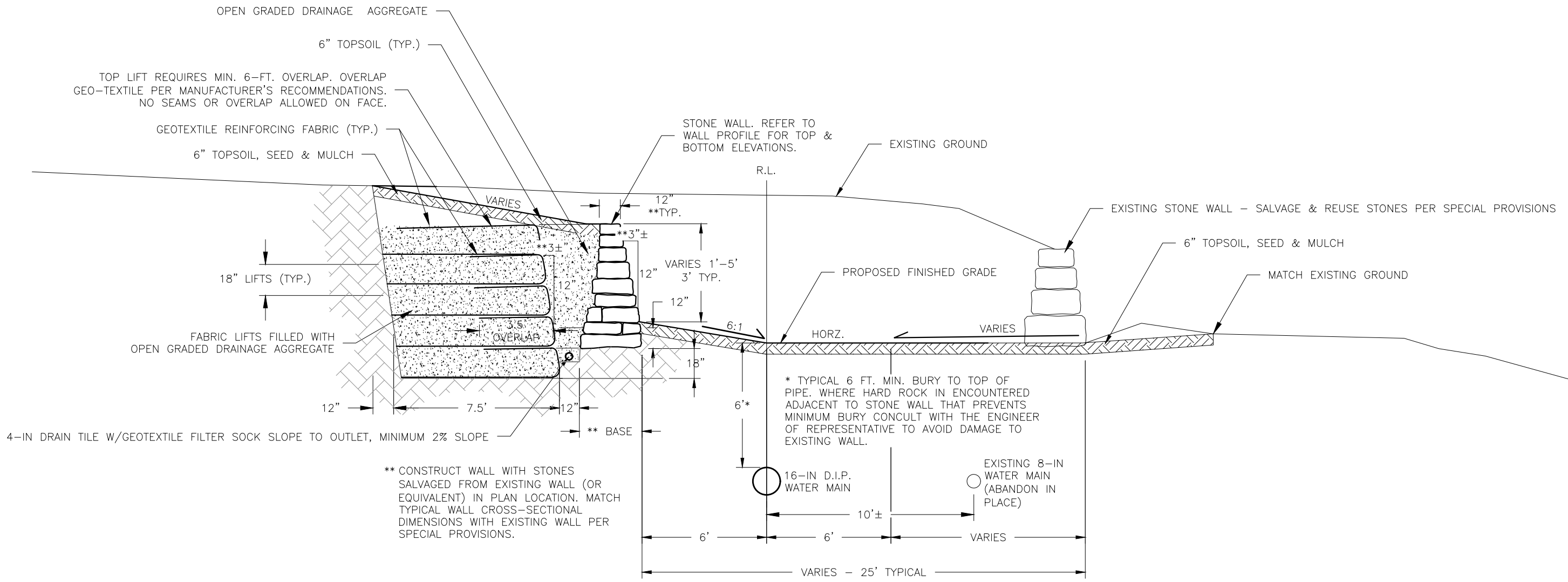
B

PLOT SCALE: 1"=40'

PLOT NAME: #####

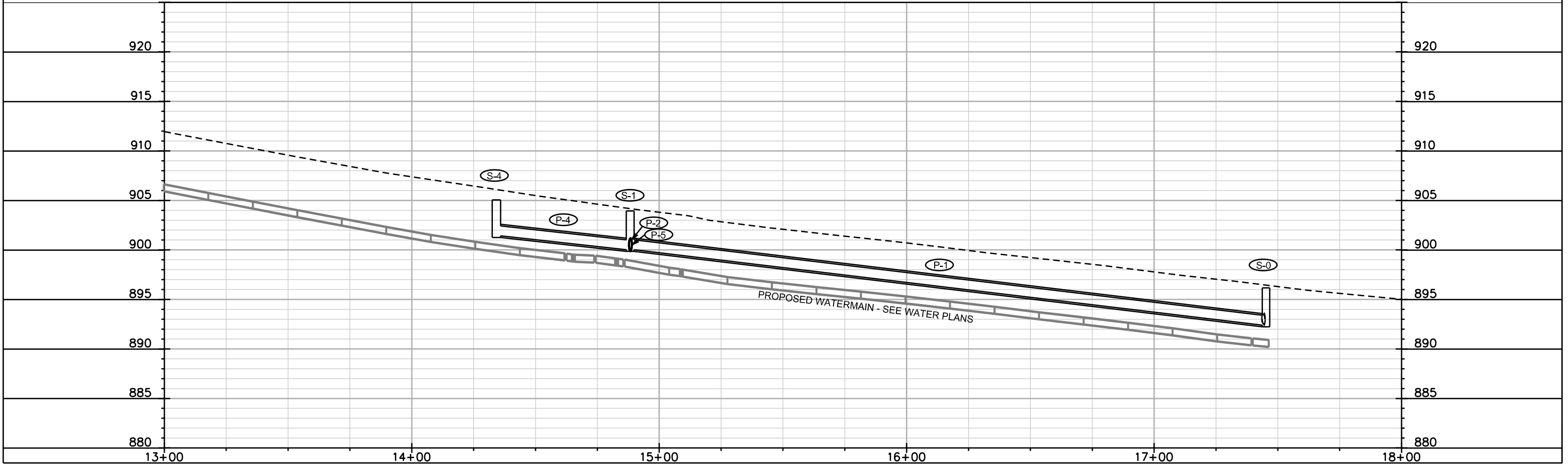
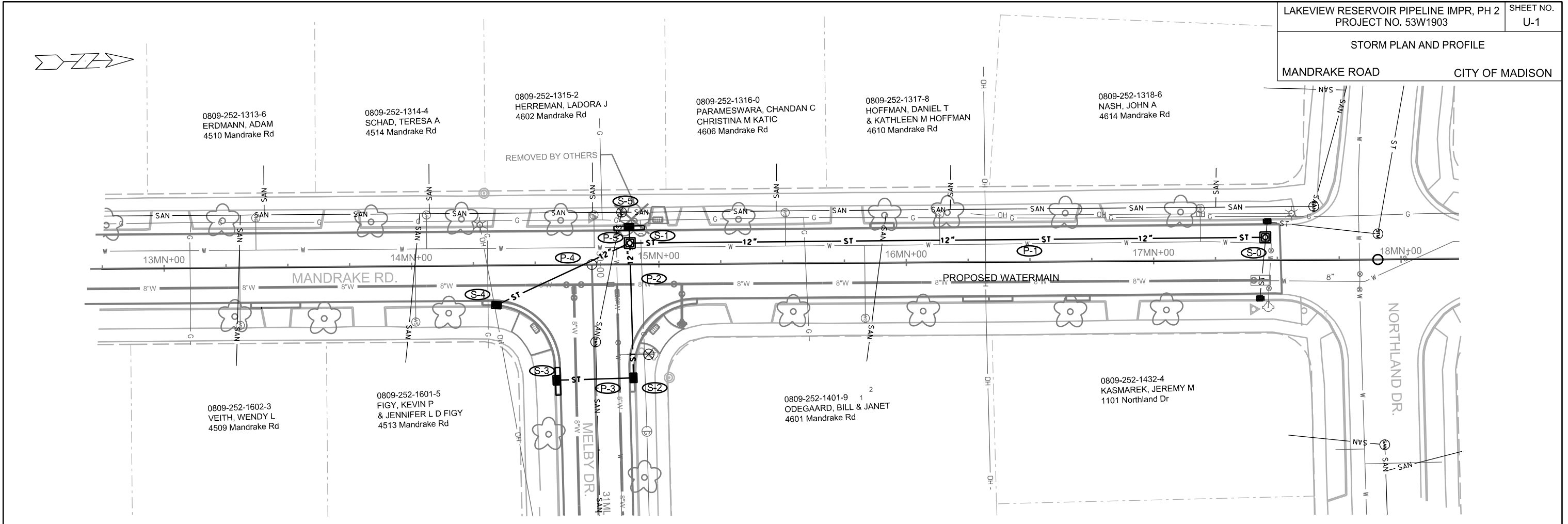
REV. DATE: \_\_\_\_\_

ORIGINATOR: Wudar



DETAIL D3-1  
 TYPICAL WALL CROSS SECTION  
 STA. 17+52.3 TO 18+16.4

STORM PLAN AND PROFILE  
MANDRAKE ROAD CITY OF MADISON



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

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

# STORM SEWER SCHEDULE

LAKEVIEW RESERVOIR PIPELINE IMPR, PH 2	SHEET NO.
PROJECT NO. 53W1903	U-2
STORM SEWER SCHEDULE	
MANDRAKE ROAD	CITY OF MADISON

## PROPOSED STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>MANDRAKE ROAD</b>							
S-0	17+45.19	LT-9.47	3X3 SAS	896.17	892.40	3.77	W/R-1550-0054; (1)
S-1	14+88.27	LT-8.80	3X3 SAS	903.85	900.02	3.83	W/R-1550-0054
S-2	14+89.42	RT-45.65	H INLET	903.93	900.27	3.66	W/R-3067-7004-V
S-3	14+58.22	RT-46.41	H INLET	904.93	900.57	4.36	W/R-3067-7004-V
S-4	14+34.21	RT-15.83	H INLET	905.50	901.42	4.08	W/R-3067-7004-V
S-5	14+88.03	LT-15.24	H INLET	904.12	900.06	4.06	W/R-3067-7004-V

## PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
<b>MANDRAKE ROAD</b>										
P-1	S-0	S-1	892.4	900.02	257.0	254.0	3.00%	12"	RCP	(1)
P-2	S-1	S-2	900.02	900.27	54.5	51.5	0.50%	12"	RCP	
P-3	S-2	S-3	900.27	900.57	31.0	29.0	1.00%	12"	RCP	
P-4	S-1	S-4	900.02	901.42	59.5	56.0	2.50%	12"	RCP	
P-5	S-1	S-5	900.02	900.06	6.5	4.0	1.00%	12"	RCP	

**NOTE:** PLAN LENGTH IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

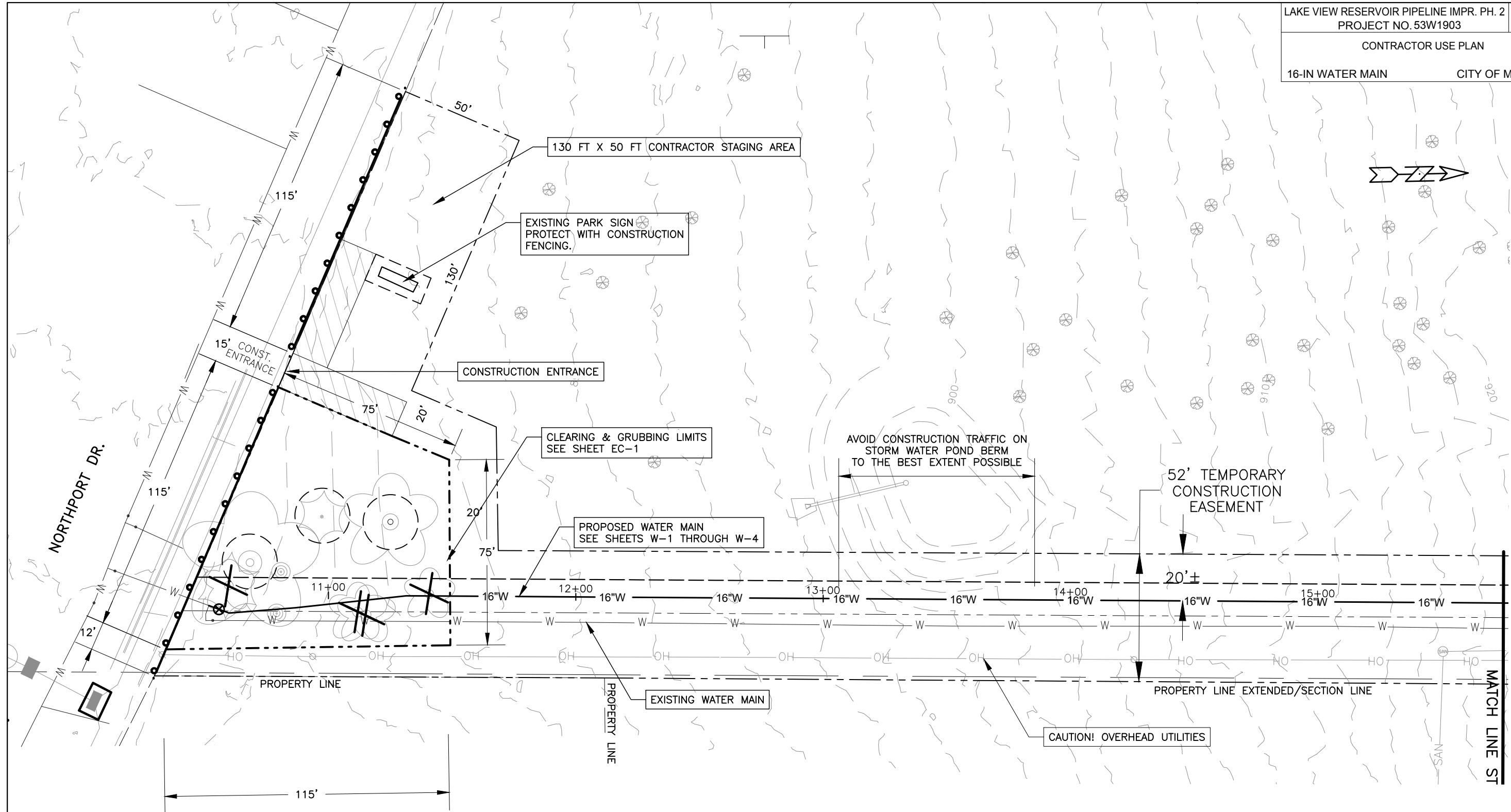
## SPECIFIC NOTES:

(1) MATCH EXISTING PIPE INVERT

## STANDARD NOTES:

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT ERIC DUNDEE OF CITY ENGINEERING AT (608) 266-4913 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608) 264-9275, OR EMAIL SHOP DRAWINGS TO EDUNDEE@CITYOFMADISON.COM



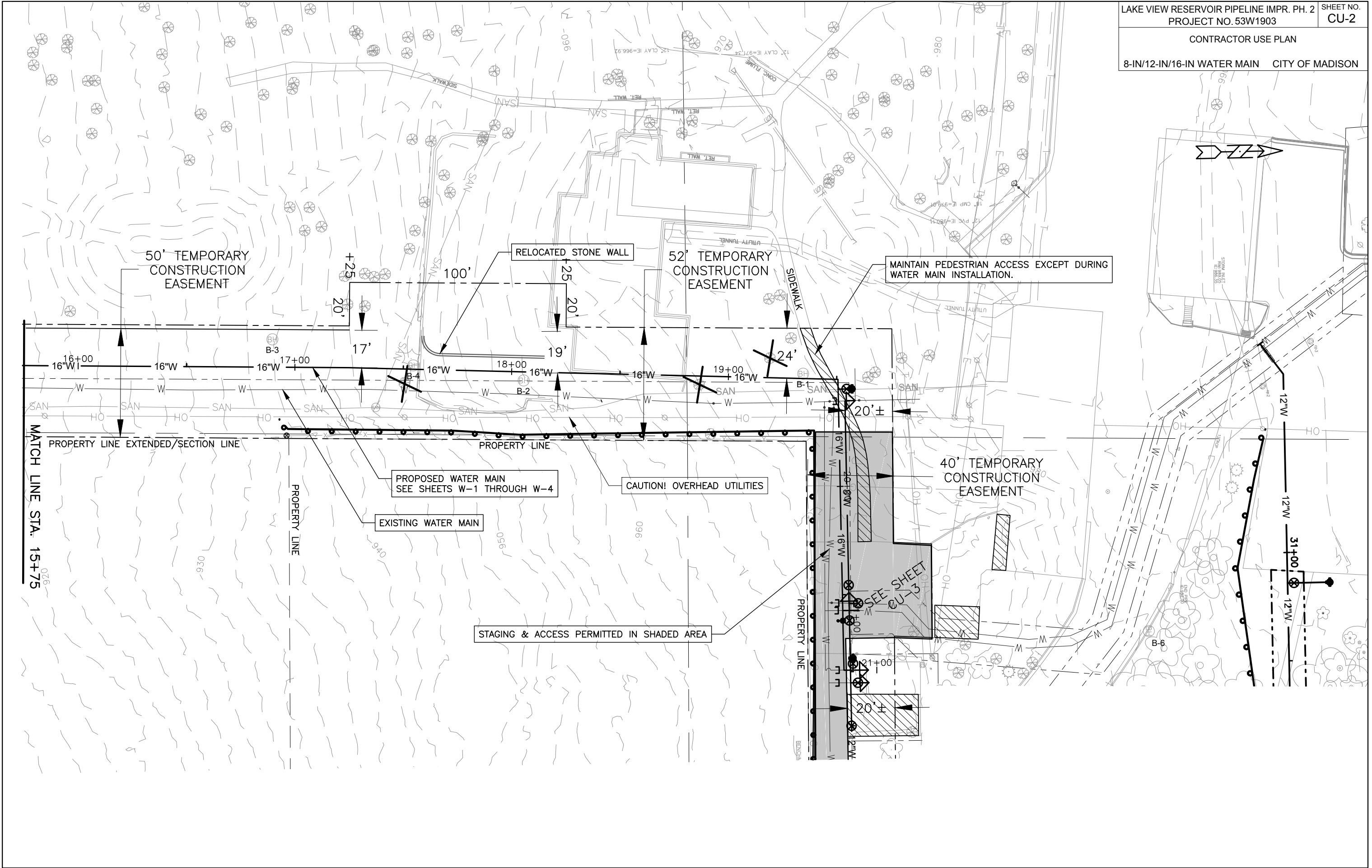


PLOT SCALE: 1"=40'

PLOT NAME: #####

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

ORIGINATOR: \_\_\_\_\_



PLOT SCALE: 1"=40'

PLOT NAME: #####

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

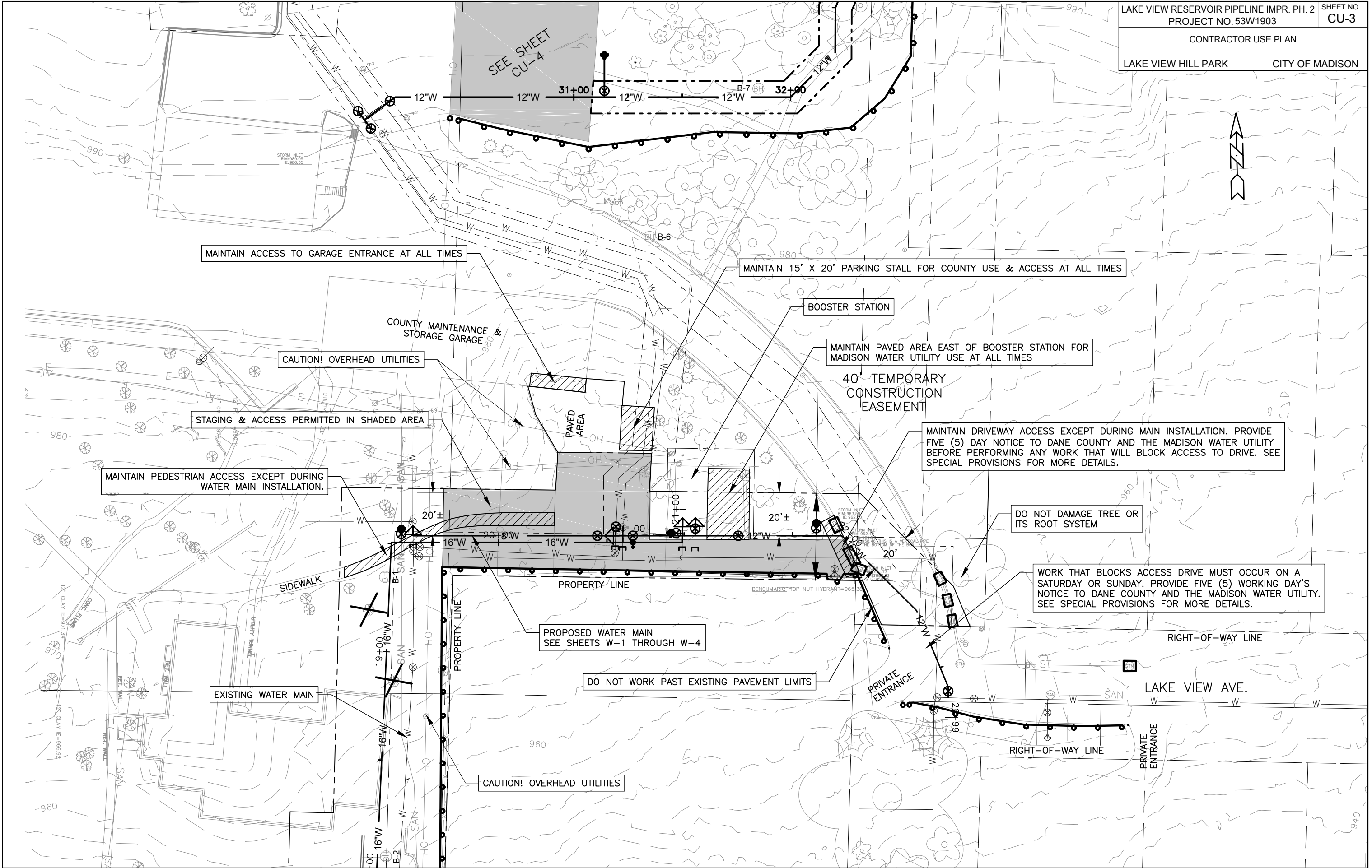
ORIGINATOR: \_\_\_\_\_

PLOT SCALE: 1"=40'

PLOT NAME: #####

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

ORIGINATOR: \_\_\_\_\_



CONTRACTOR MAY STAGE IN PUBLIC  
RIGHT-OF-WAY IN ACCORDANCE WITH  
MAINTENANCE OF TRAFFIC

PROTECT PRIVATE DRIVEWAY  
FROM DAMAGE. NEEDED  
REPAIRS TO BE AT  
CONTRACTOR'S EXPENSE.

**STAGING AREA**  
(SHADED AREA) AVAILABLE  
FOR A MAXIMUM OF 30  
CALENDAR DAYS DURING  
INSTALLATION OF ESCH LN.  
CONNECTION ONLY. PROVIDE  
A MINIMUM OF 5 WORKING  
DAYS NOTICE BEFORE  
OCCUPYING.

OFF LIMITS  
NO STAGING ALLOWED

MAINTAIN VEHICULAR & PEDESTRIAN TRAFFIC FLOW BY WAY OF DRIVEWAY  
AND DANE CO. HUMAN SERVICES BUILDING AT ALL TIMES  
(TYPICAL)

USE EQUIPMENT SIZED TO MAINTAIN  
MAXIMUM 15 FT. WIDTH OF DISTURBANCE

TO DANE CO.  
HUMAN SERVICES

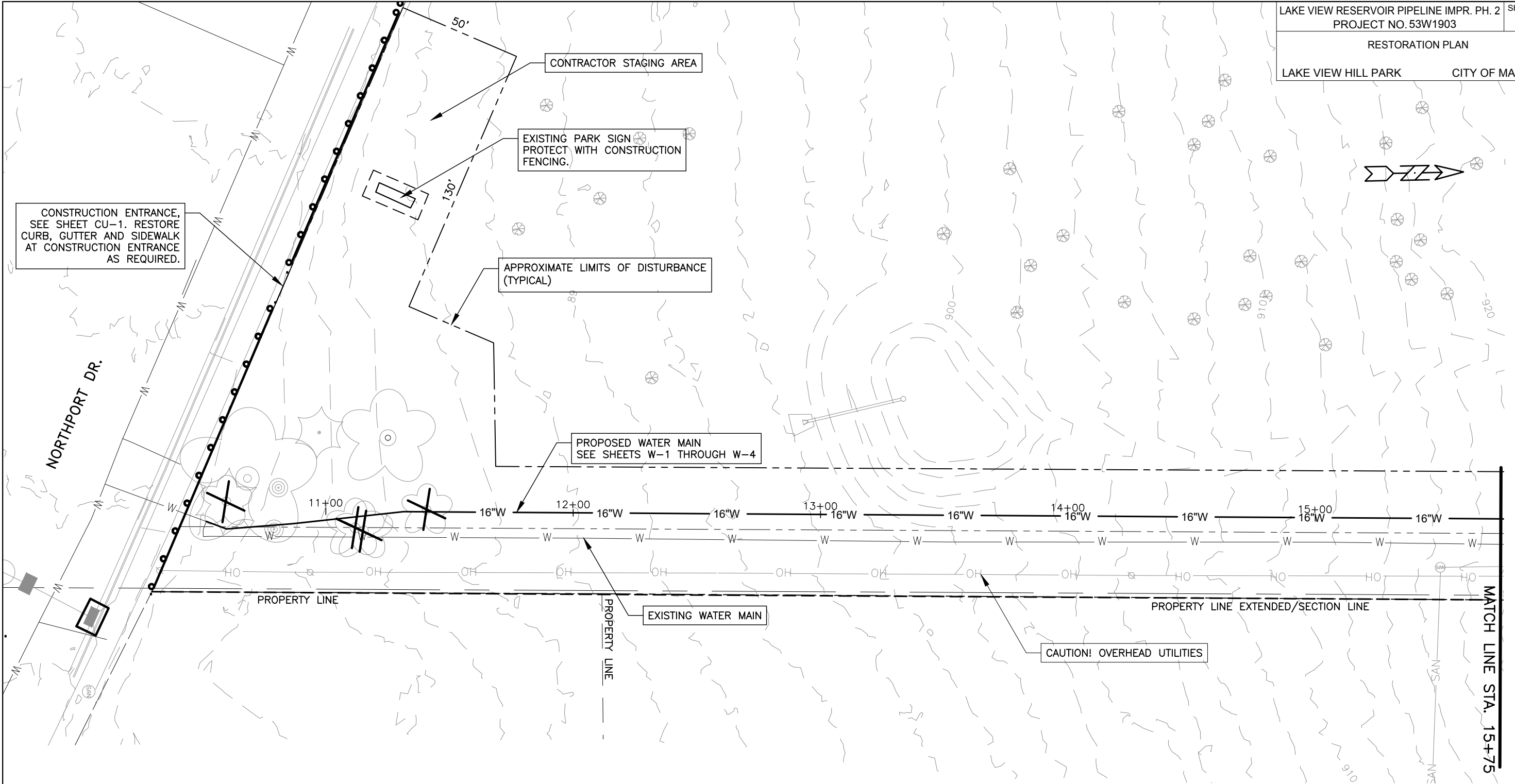
SEE SHEET  
CU-3

PLOT SCALE: 1"=40'

PLOT NAME: #####

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

ORIGINATOR: \_\_\_\_\_



**RESTORATION NOTES**

1. RESTORE ALL DISTURBED AREAS TO ORIGINAL GRADE EXCEPT WHERE NOTED.
2. SEED & MAT DISTURBED LANDSCAPED AREAS WITH CLASS1 TYPE A ORGANIC MATTING AND SUN TERRACE SEED MIX, EXCEPT WHERE NOTED.
3. INSTALL MATTING WITHIN THREE DAYS OF SEEDING.

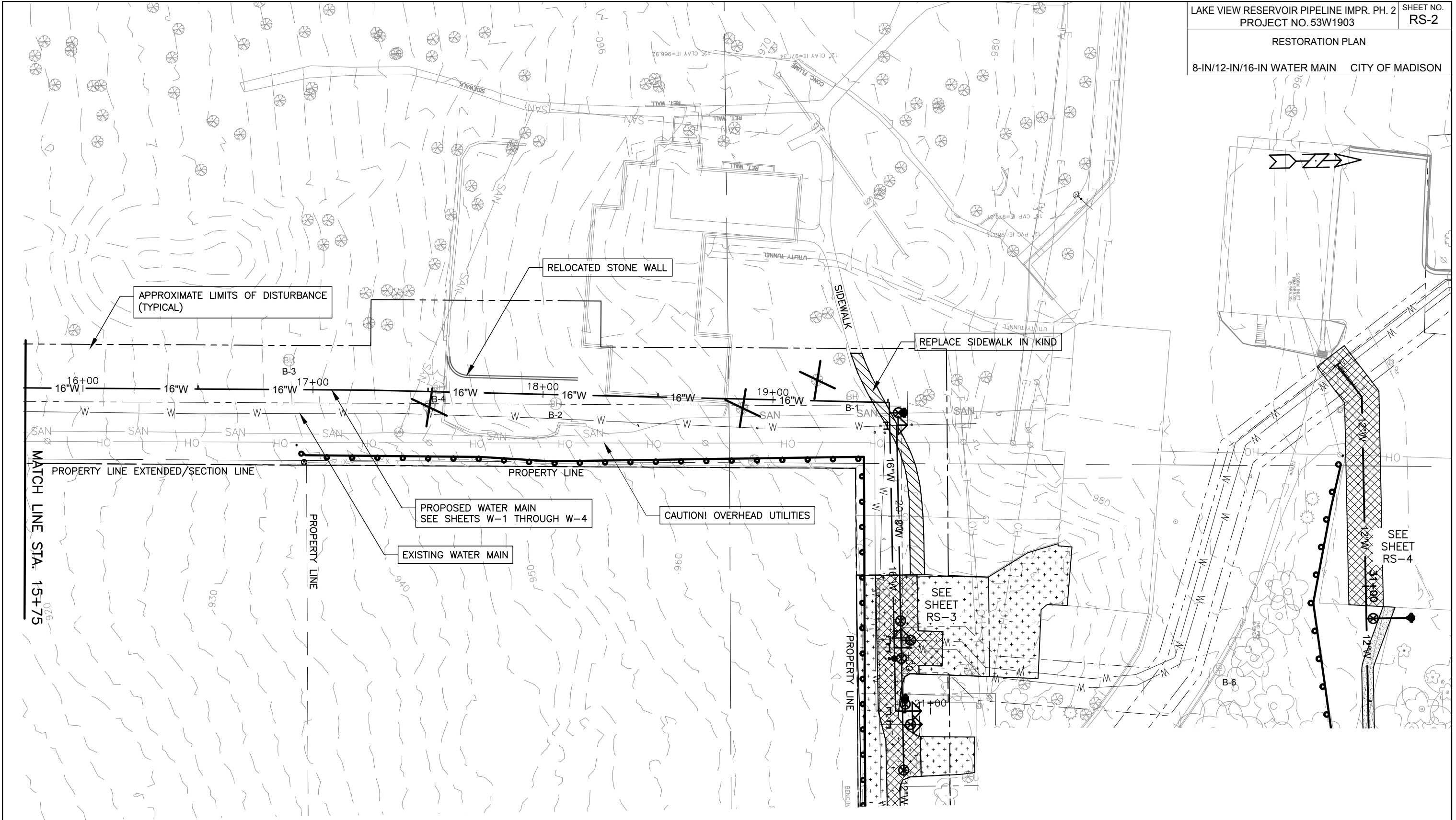
PLOT SCALE: 1"=40'

PLOT NAME: #####

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

ORIGINATOR: \_\_\_\_\_

MATCH LINE STA. 15+75



**RESTORATION NOTES**

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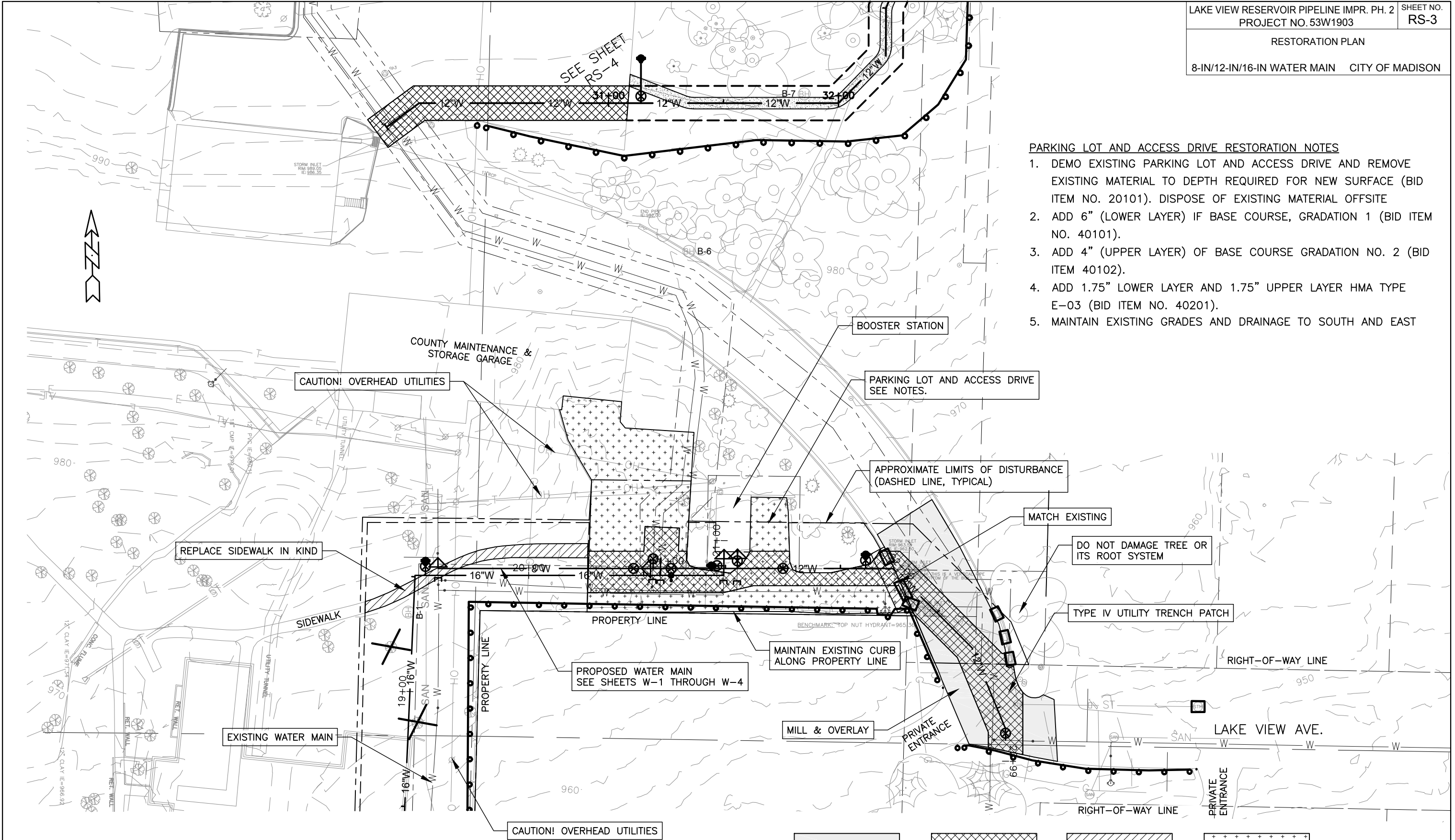
PLOT SCALE: 1"=40'

PLOT NAME: #####

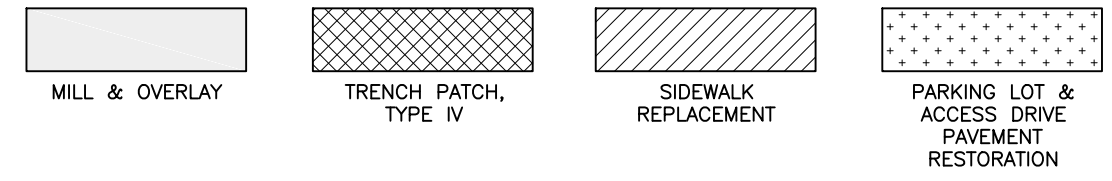
REV. DATE: \_\_\_\_\_

ORIGINATOR: \_\_\_\_\_

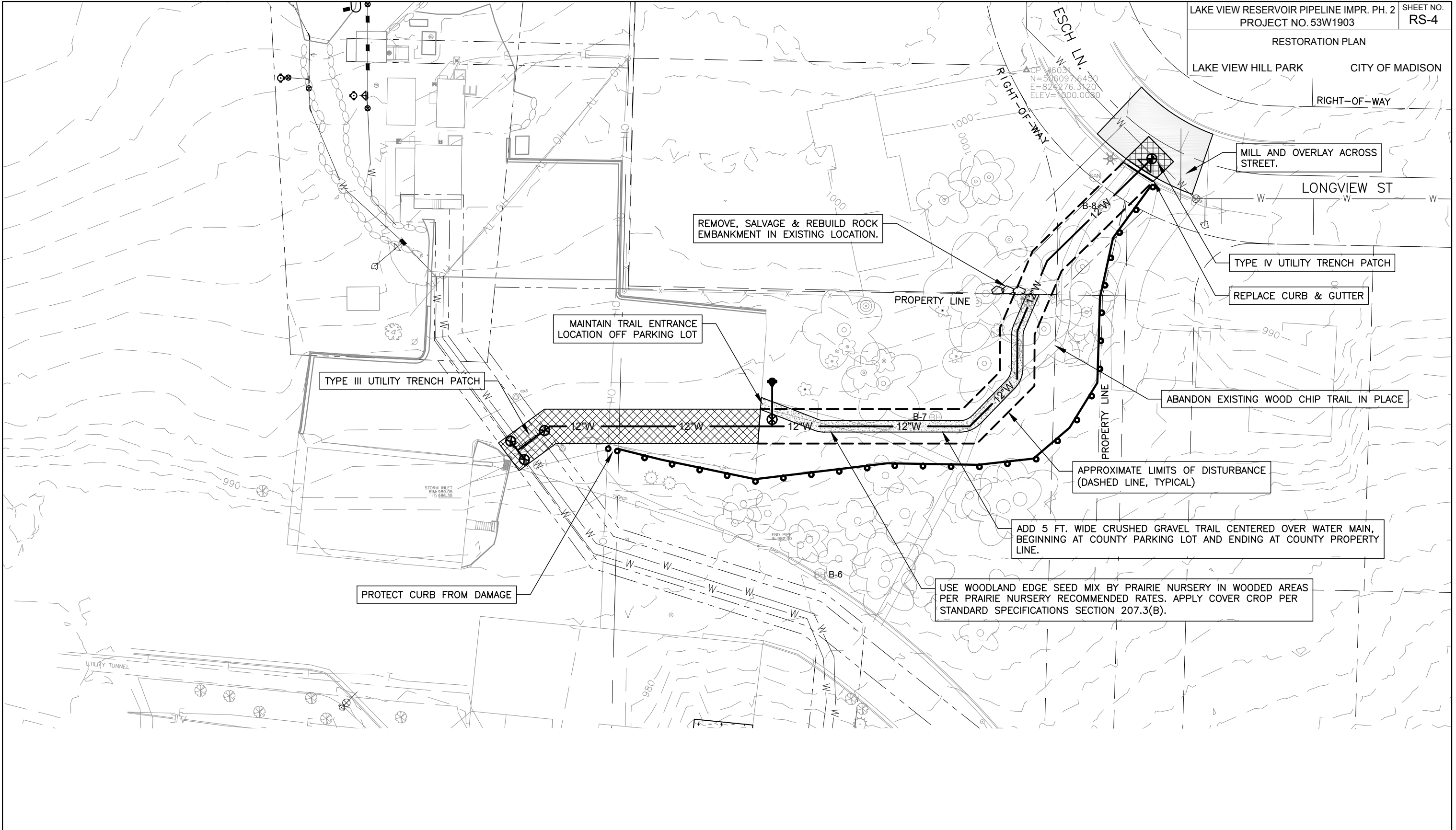
- PARKING LOT AND ACCESS DRIVE RESTORATION NOTES**
1. DEMO EXISTING PARKING LOT AND ACCESS DRIVE AND REMOVE EXISTING MATERIAL TO DEPTH REQUIRED FOR NEW SURFACE (BID ITEM NO. 20101). DISPOSE OF EXISTING MATERIAL OFFSITE
  2. ADD 6" (LOWER LAYER) IF BASE COURSE, GRADATION 1 (BID ITEM NO. 40101).
  3. ADD 4" (UPPER LAYER) OF BASE COURSE GRADATION NO. 2 (BID ITEM 40102).
  4. ADD 1.75" LOWER LAYER AND 1.75" UPPER LAYER HMA TYPE E-03 (BID ITEM NO. 40201).
  5. MAINTAIN EXISTING GRADES AND DRAINAGE TO SOUTH AND EAST



- GENERAL RESTORATION NOTES**
1. RESTORE ALL DISTURBED AREAS TO ORIGINAL GRADE EXCEPT WHERE NOTED.
  2. SEED & MAT DISTURBED LANDSCAPED AREAS WITH CLASS1 TYPE A ORGANIC MATTING AND SUN TERRACE SEED MIX, EXCEPT WHERE NOTED.
  3. INSTALL MATTING WITHIN THREE DAYS OF SEEDING.



PLOT SCALE: 1"=40'  
 PLOT NAME: #####  
 REV. DATE: \_\_\_\_\_  
 ORIGINATOR: \_\_\_\_\_



REMOVE, SALVAGE & REBUILD ROCK EMBANKMENT IN EXISTING LOCATION.

MAINTAIN TRAIL ENTRANCE LOCATION OFF PARKING LOT

TYPE III UTILITY TRENCH PATCH

MILL AND OVERLAY ACROSS STREET.

TYPE IV UTILITY TRENCH PATCH

REPLACE CURB & GUTTER

ABANDON EXISTING WOOD CHIP TRAIL IN PLACE

APPROXIMATE LIMITS OF DISTURBANCE (DASHED LINE, TYPICAL)

ADD 5 FT. WIDE CRUSHED GRAVEL TRAIL CENTERED OVER WATER MAIN, BEGINNING AT COUNTY PARKING LOT AND ENDING AT COUNTY PROPERTY LINE.

USE WOODLAND EDGE SEED MIX BY PRAIRIE NURSERY IN WOODED AREAS PER PRAIRIE NURSERY RECOMMENDED RATES. APPLY COVER CROP PER STANDARD SPECIFICATIONS SECTION 207.3(B).

PROTECT CURB FROM DAMAGE

**GENERAL RESTORATION NOTES**

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3. INSTALL MATTING WITHIN THREE DAYS OF SEEDING.

