

Madison, Wisconsin

CITY OF MADISON

MADISON WATER UTILITY

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT
APPROVED

JULY 15, 2014

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

WATER SYSTEM IMPROVEMENTS
APPROVED BY:

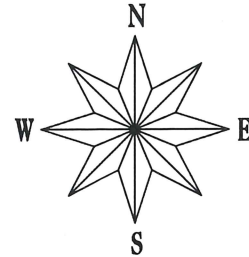
[Signature] 8/5/14
Principal Engineer Date

WATER
DESIGNED BY:

WISCONSIN
PROFESSIONAL ENGINEER
KELLY B. MIESS
E-41821
MADISON WI
[Signature] 8/6/2014

LAKEVIEW RESERVOIR PIPELINE IMPROVEMENTS

CITY PROJECT NO. 53W1819
CITY CONTRACT NO. 7354



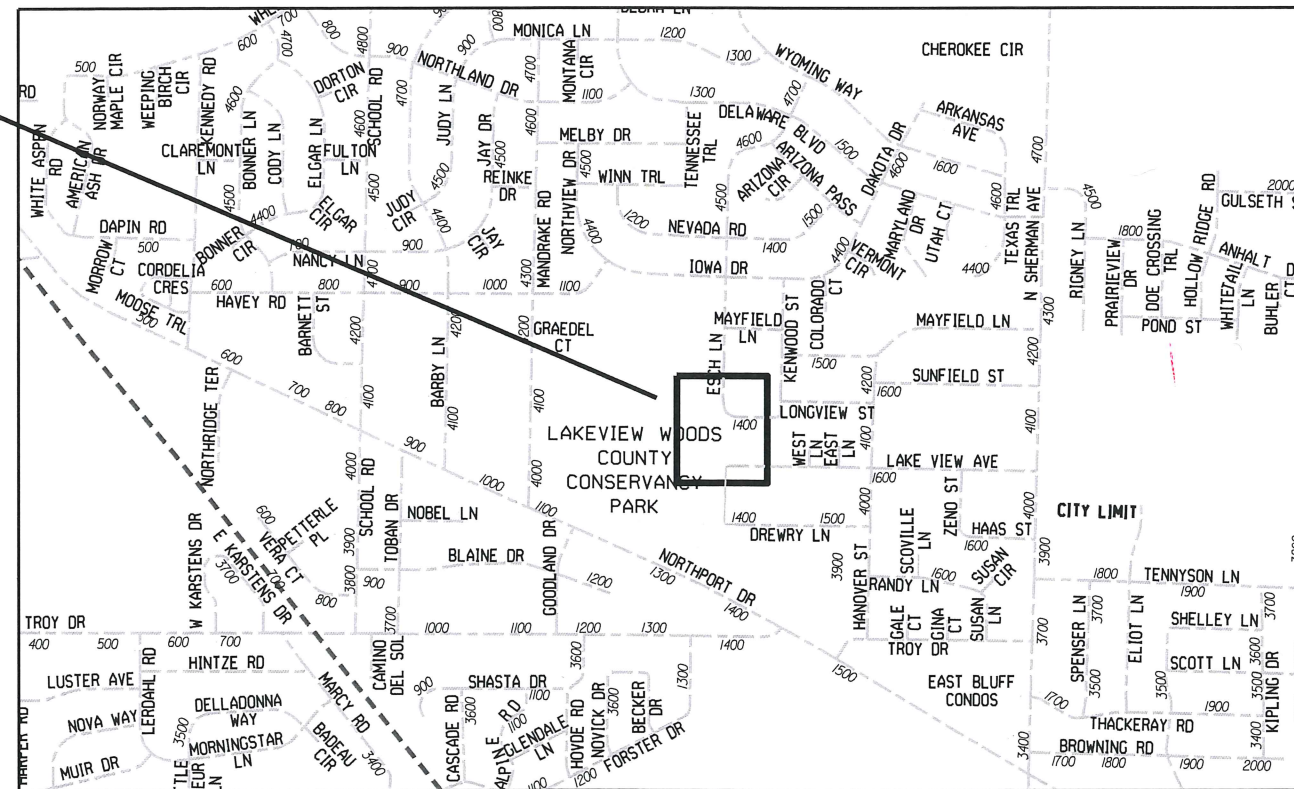
INDEX OF SHEETS

SHEET NO.	TITLE
1	EXISTING CONDITIONS & EASEMENTS
EX1	ALIGNMENT & CONTROL
A1	EROSION CONTROL PLAN
EC1	WATER SHEETS
WI-W3	RESTORATION PLAN
RI	CONTRACTOR USE PLAN
CUI	TRAFFIC CONTROL PLAN
TC1	

NON-CONTRACT SHEETS FOR WORK BY OTHERS

C2	SITE PLAN
C3	TREE REMOVAL PLAN
C4	GRADING PLAN
C5	EROSION CONTROL PLAN

PROJECT
LOCATION



CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

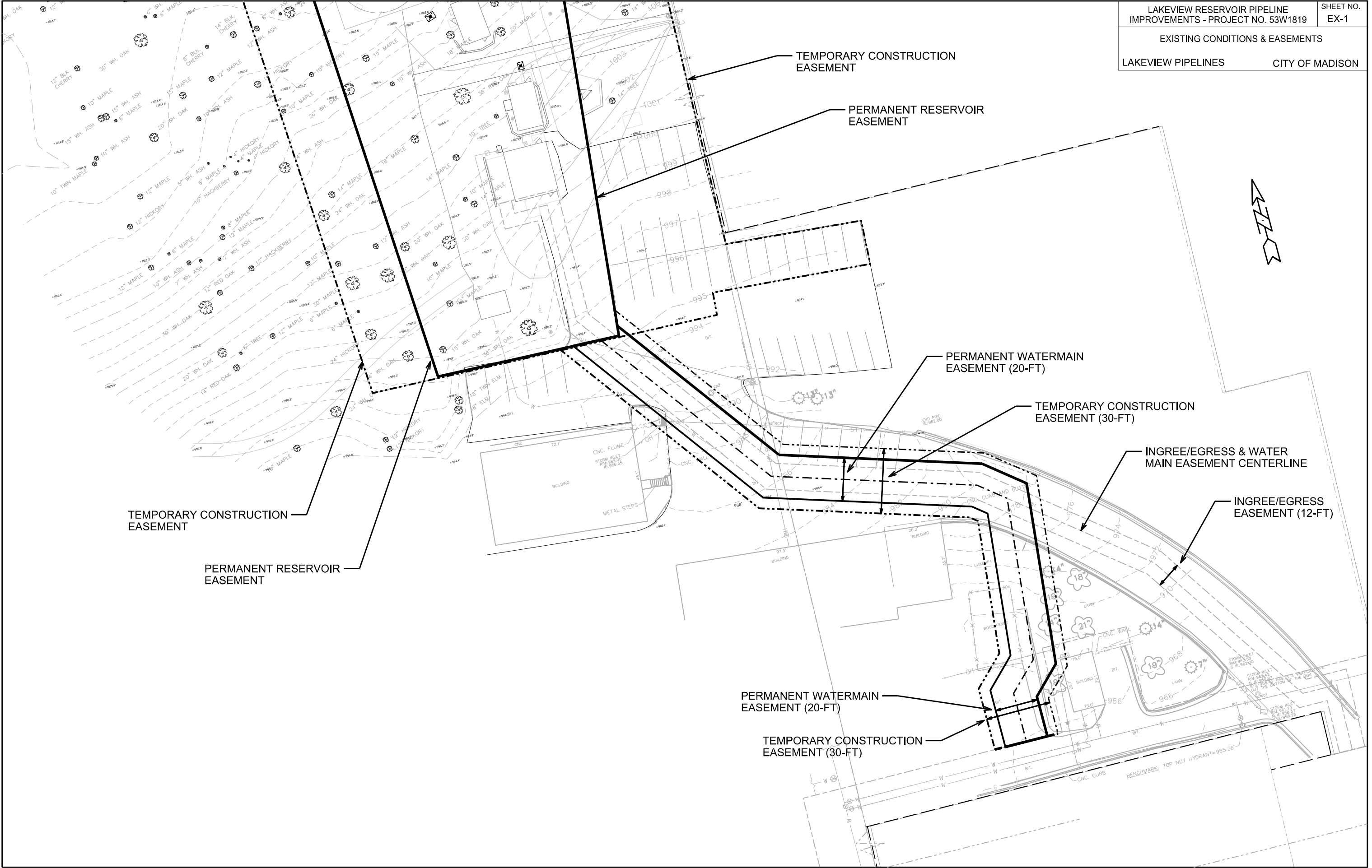
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	★
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	■
COMBUSTIBLE FLUIDS	☀

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

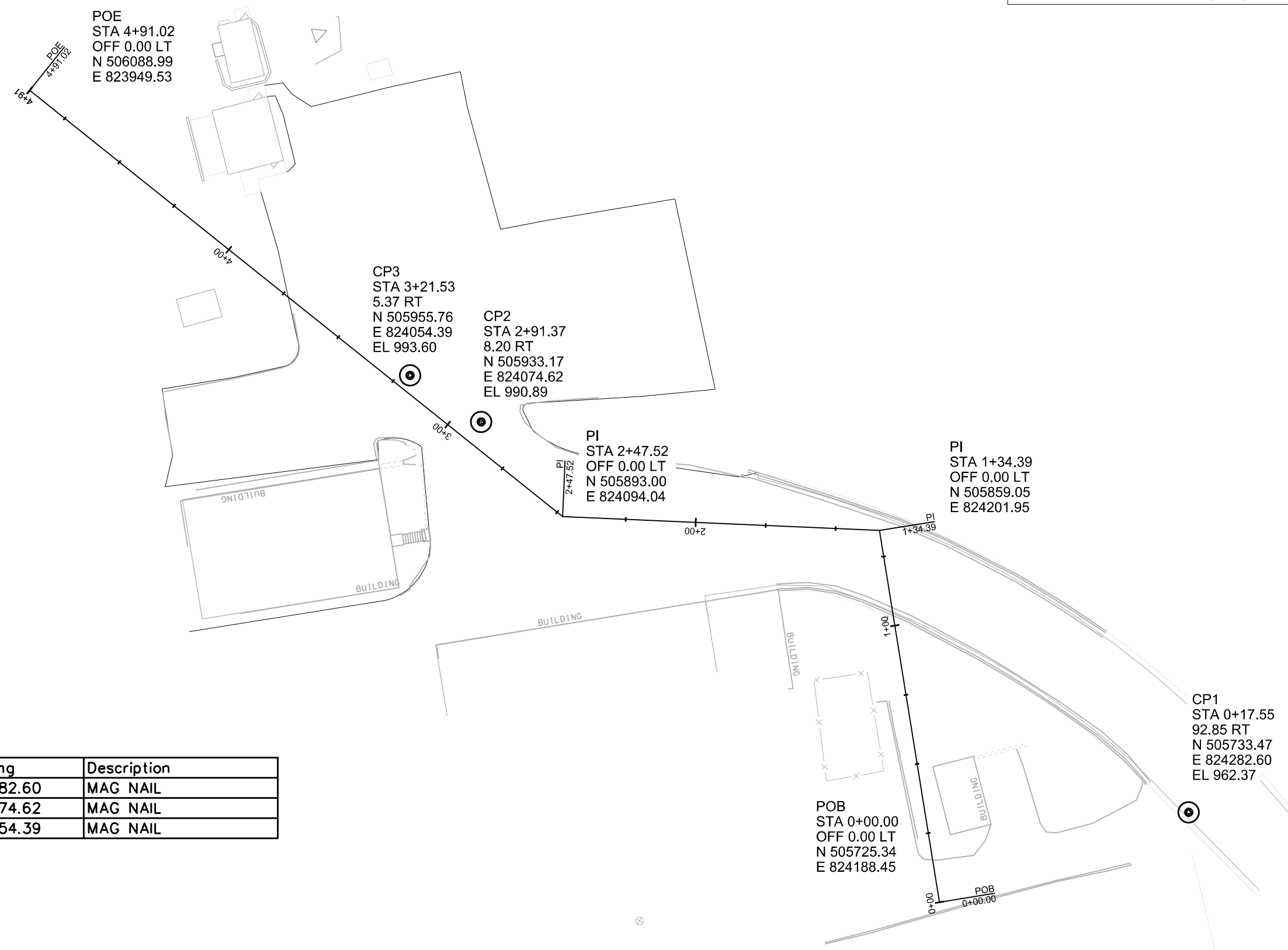


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

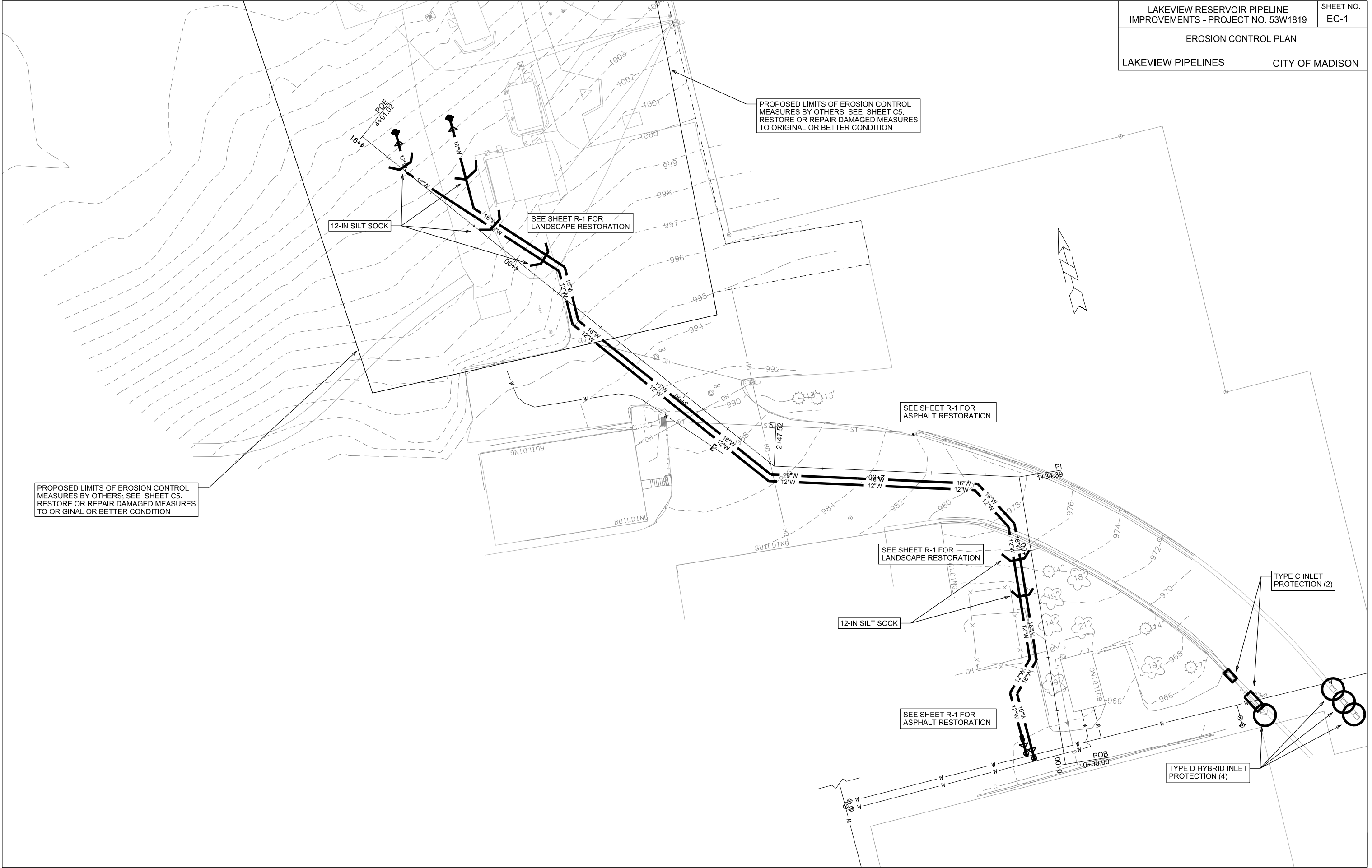
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



Node ID	Northing	Easting	Description
cp1	505733.47	824282.60	MAG NAIL
cp2	505933.17	824074.62	MAG NAIL
cp3	505955.76	824054.39	MAG NAIL



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

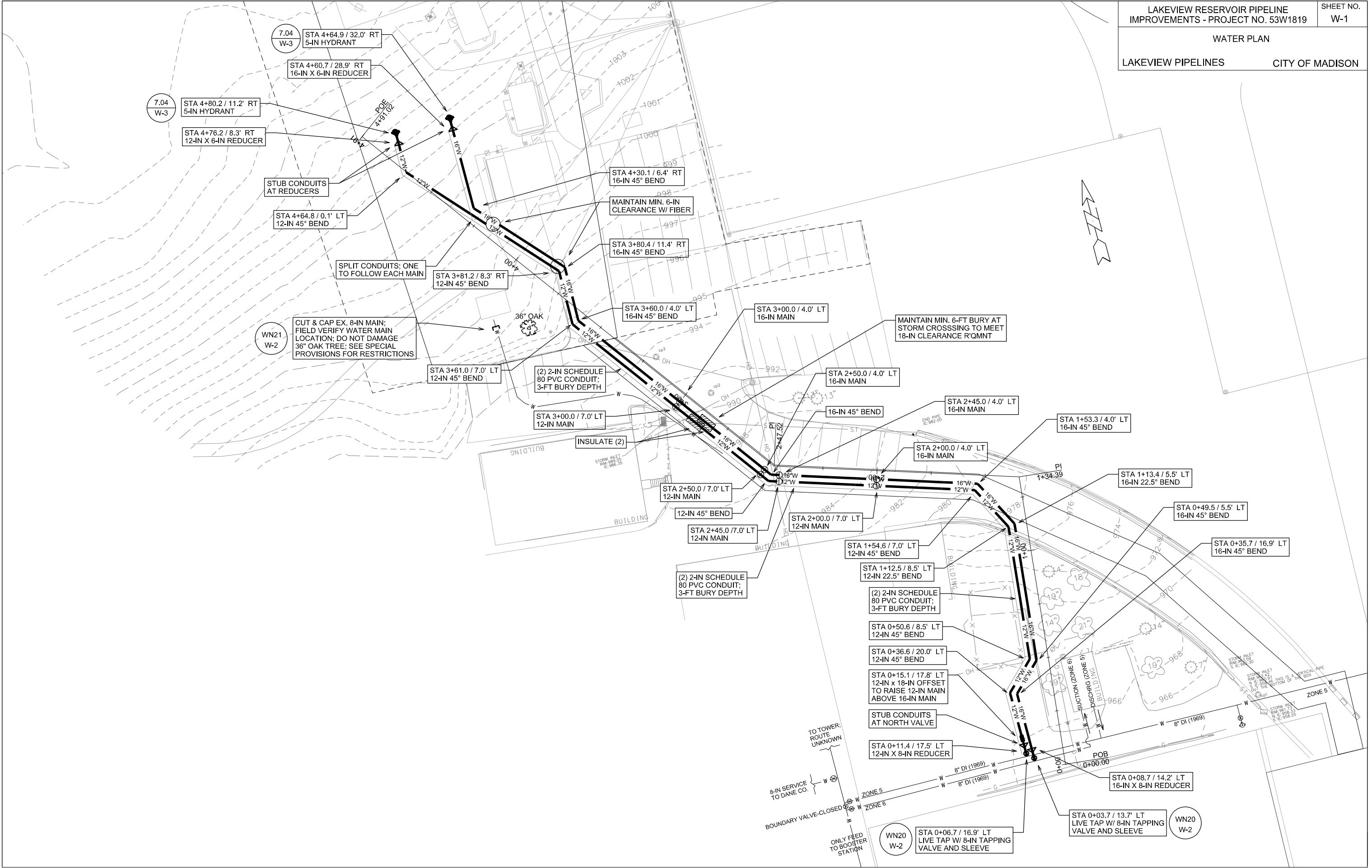


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

NOTE:
 BOTH OPERATIONS (WN20 & WN21)
 MAY ONLY OCCUR ON A SATURDAY;
 SEE SPECIAL PROVISIONS FOR DETAILS

WN21
W-1

CUT & CAP EX. MAIN
SOUTH OF "WHITE BLDG"

FIELD VERIFY LOCATION
OF WATER MAIN;
SHOWN LOCATION
BASED ON RECORDS

ISOLATION VALVES:
 - SV-2 (8" COUNTY SERVICE)
 - V-4 (8" ZONE 5 VALVE)

NOTIFICATION
 - MADISON WATER UTILITY

WN20
W-1

(2) LIVE TAP CONNECTIONS
LAKE VIEW AVE EXT. AT
BOOSTER PUMP STATION

ISOLATION VALVES:
 - NONE R'QD

NOTIFICATION
 - MADISON WATER UTILITY

SV-2

V-4
(ZONE 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

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. 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 NOTFICATION INFORMATION.

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

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

- | | |
|--------------------------|------------------------------------|
| 10-FT - 8-IN PIPE | 7 - 12-IN 45° BEND |
| 500-FT - 12-IN PIPE | 7 - 16-IN 45° BEND |
| 500-FT - 16-IN PIPE | 1 - 12-IN 22-1/2° BEND |
| | 1 - 16-IN 22-1/2° BEND |
| 1150-FT - POLYWRAP | |
| 1 - 12-IN X 6-IN REDUCER | 2 - 5-IN HYDRANT |
| 1 - 12-IN X 8-IN REDUCER | 16-FT - 2-IN STYROFOAM INSULATION |
| 1 - 16-IN X 6-IN REDUCER | 1000-FT - 2-IN SCH. 80 PVC CONDUIT |
| 1 - 16-IN X 8-IN REDUCER | |
| 1 - 12-IN X 18-IN OFFSET | |

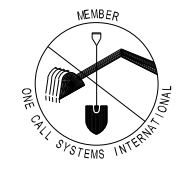
MATERIALS SUPPLIED BY CITY:

- 2 - 8-IN X 8-IN TAPPING SLEEVE & VALVE

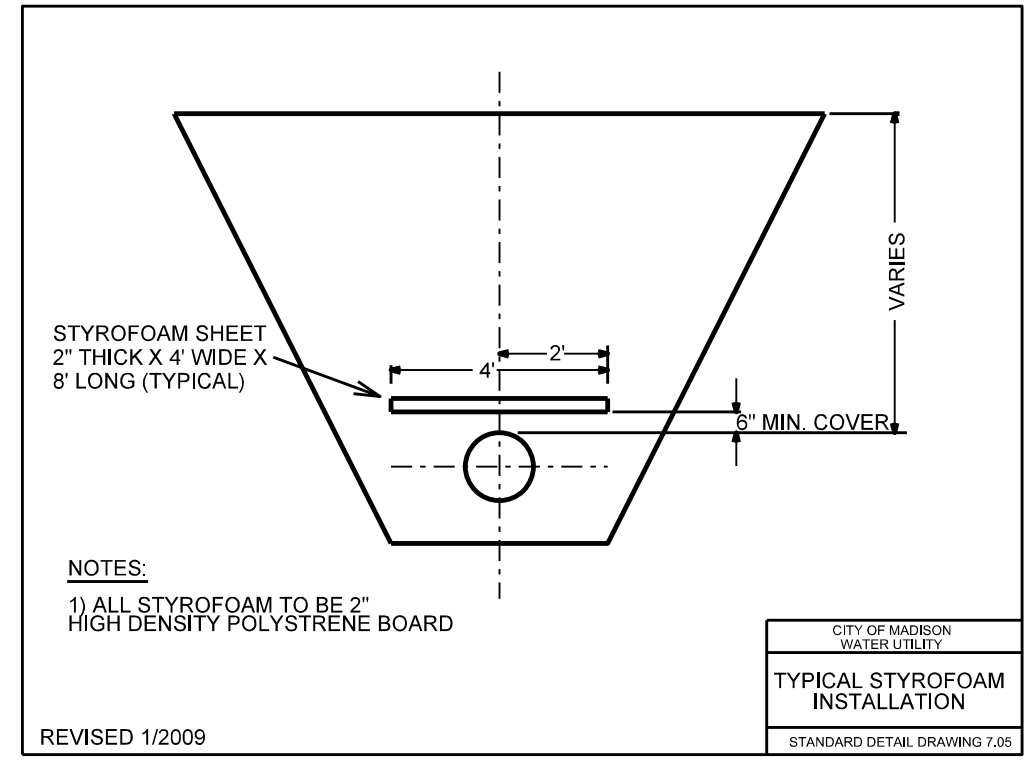
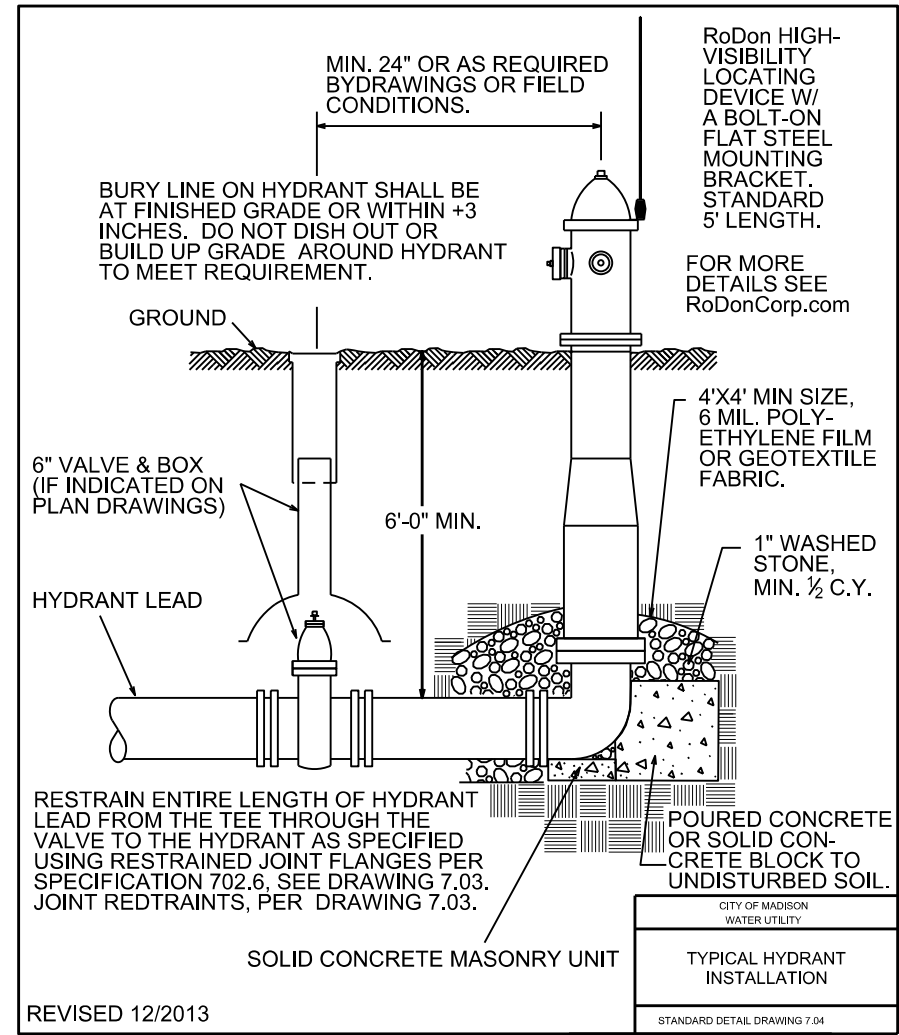
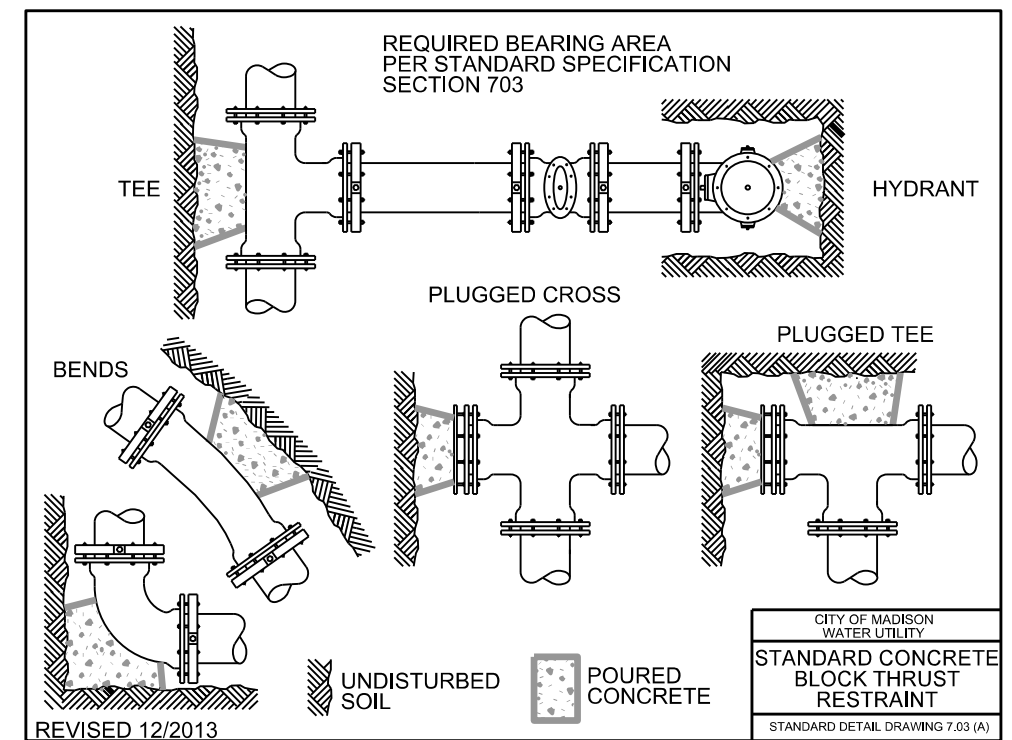
REUSED MATERIALS

NONE

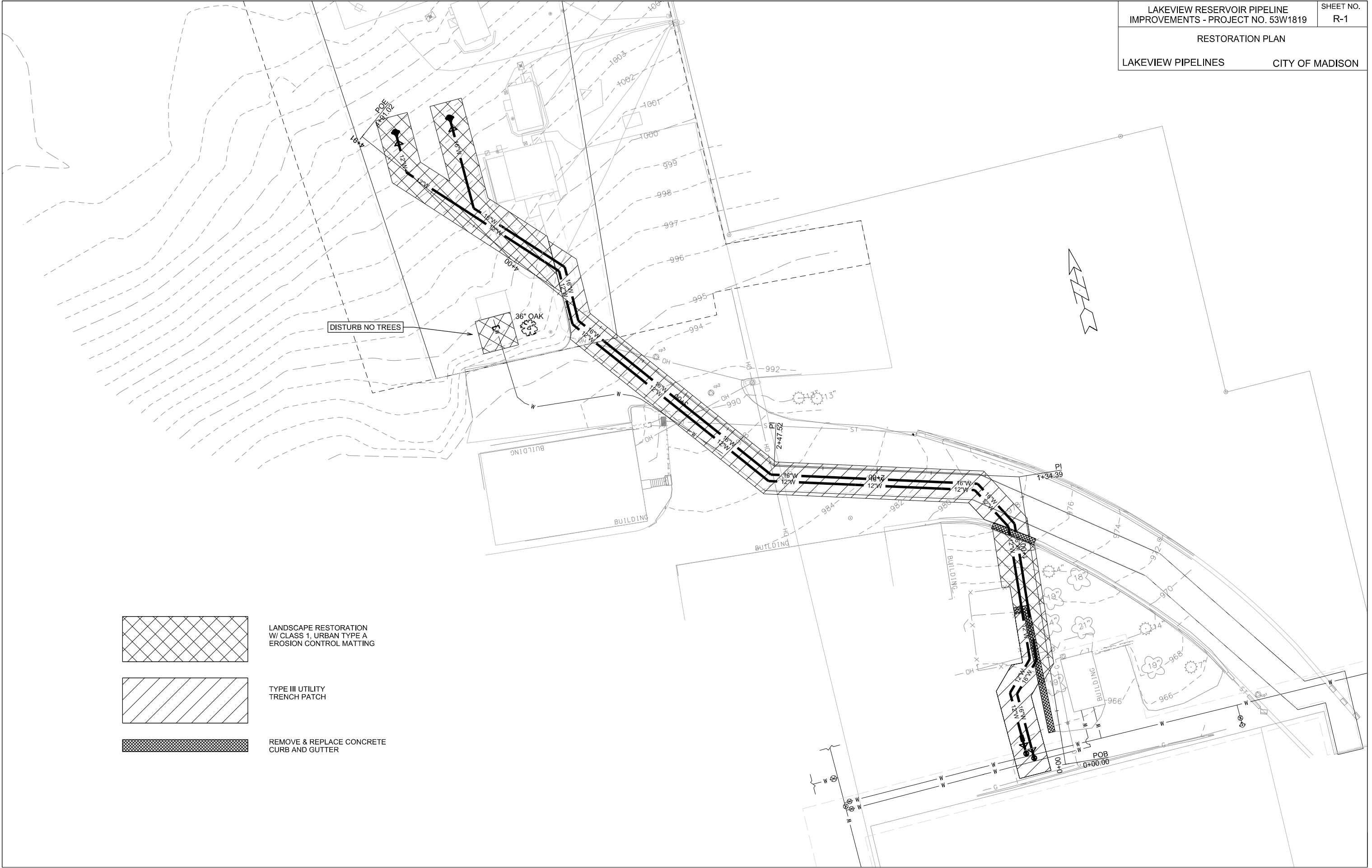
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
 CALL DIGGERS HOTLINE TOLL FREE
 811 OR 1-800-242-8511
 FAX-A-LOCATE 1-800-338-3860
 TDD (FOR HEARING IMPAIRED) 1-800-542-2289
 WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

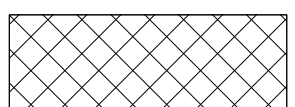
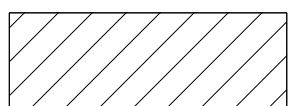



DISCLAIMER NOTE:
 UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.



PLOT SCALE: _____
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 ORIGINATOR: CITY OF MADISON, STREETS DIVISION



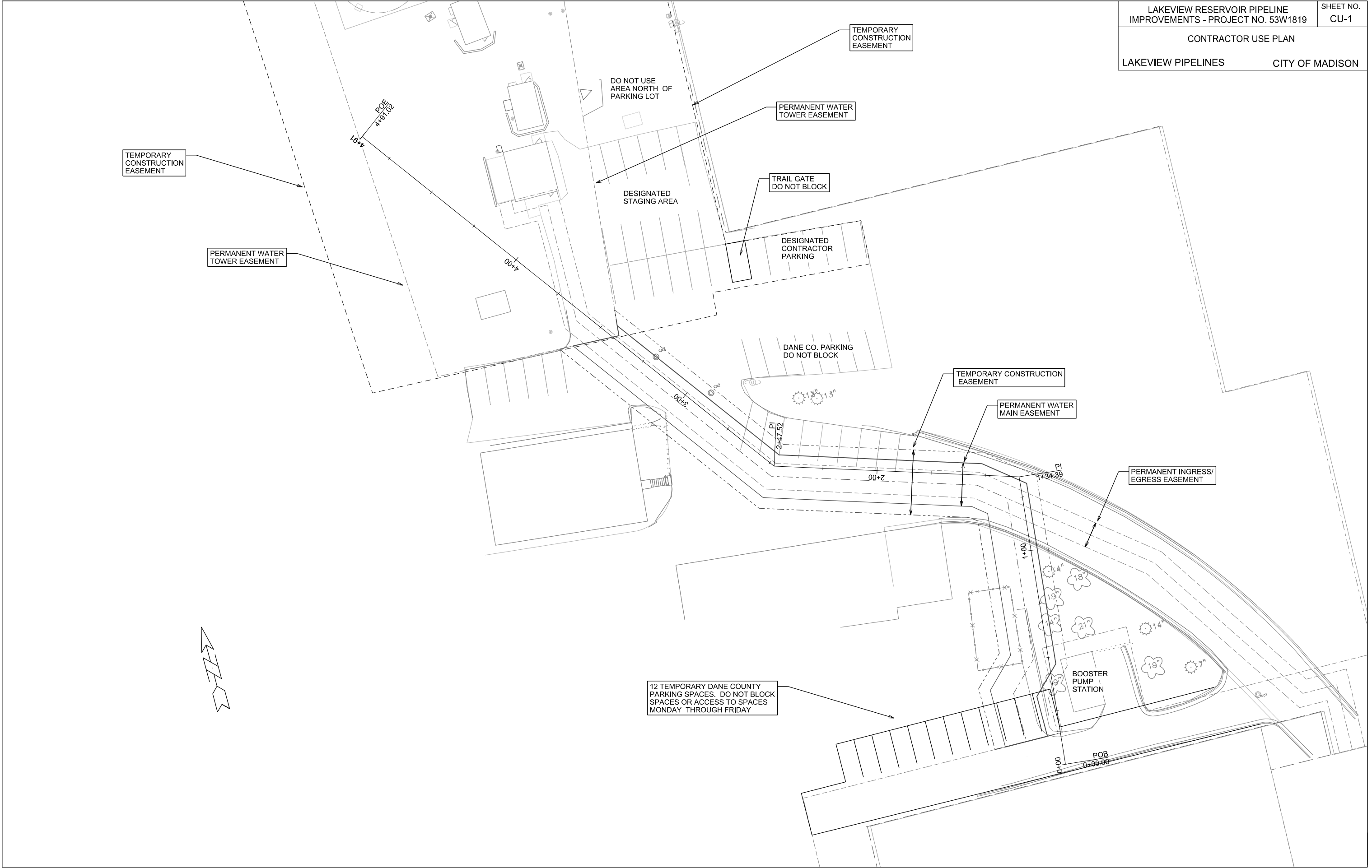
-  LANDSCAPE RESTORATION
W/ CLASS 1, URBAN TYPE A
EROSION CONTROL MATTING
-  TYPE III UTILITY
TRENCH PATCH
-  REMOVE & REPLACE CONCRETE
CURB AND GUTTER

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TEMPORARY CONSTRUCTION EASEMENT

PERMANENT WATER TOWER EASEMENT

DO NOT USE AREA NORTH OF PARKING LOT

PERMANENT WATER TOWER EASEMENT

TRAIL GATE DO NOT BLOCK

DESIGNATED STAGING AREA

DESIGNATED CONTRACTOR PARKING

DANE CO. PARKING DO NOT BLOCK

TEMPORARY CONSTRUCTION EASEMENT

PERMANENT WATER MAIN EASEMENT

PERMANENT INGRESS/EGRESS EASEMENT

BOOSTER PUMP STATION

12 TEMPORARY DANE COUNTY PARKING SPACES. DO NOT BLOCK SPACES OR ACCESS TO SPACES MONDAY THROUGH FRIDAY

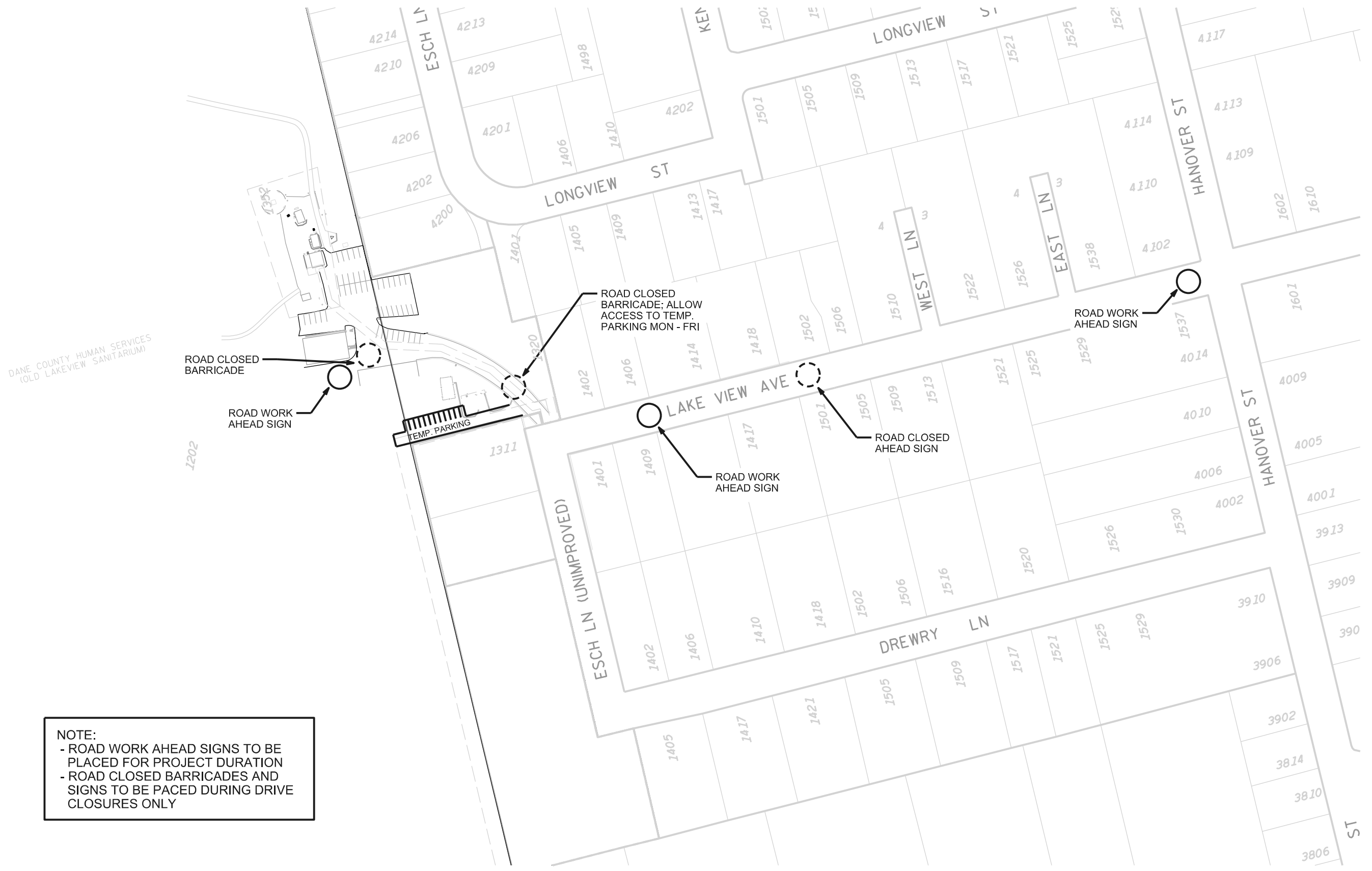


PLOT SCALE: _____

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NOTE:

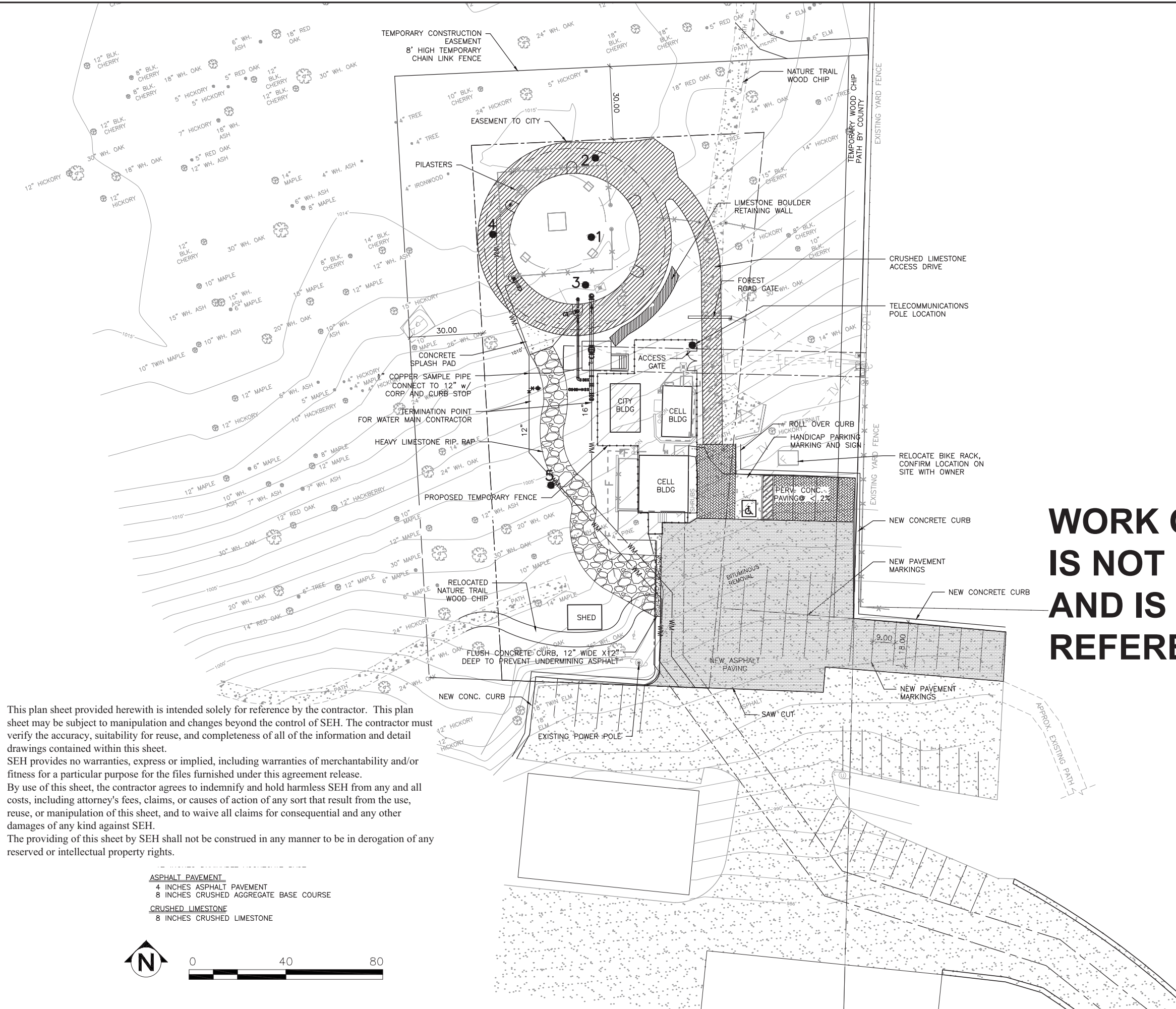
- ROAD WORK AHEAD SIGNS TO BE PLACED FOR PROJECT DURATION
- ROAD CLOSED BARRICADES AND SIGNS TO BE PACED DURING DRIVE CLOSURES ONLY

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV. DATE: _____

PLOT NAME: _____

PLOT SCALE: _____



— LEGEND —

- = COUNTY PLS CORNER
- = ELECTRIC POWER POLE
- = ELECTRIC METER
- = GROUNDING PORT
- = LIGHT POLE
- = METAL/WOOD POST
- = ELECTRIC TRANSFORMER
- = TELEPHONE PEDESTAL
- = DECIDUOUS TREE
- = PROPERTY LINE
- = BURIED ELECTRIC
- = BURIED TELEPHONE
- = BURIED FIBER OPTIC
- = EXISTING FENCELINE
- = EDGE OF WOODS
- = SPOT ELEVATION
- = POINT OF BEGINNING
- = SOIL BORINGS (5)
- = TREE & STUMP REMOVAL

**WORK ON THIS SHEET
IS NOT IN CONTRACT
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This plan sheet provided herewith is intended solely for reference by the contractor. This plan sheet may be subject to manipulation and changes beyond the control of SEH. The contractor must verify the accuracy, suitability for reuse, and completeness of all of the information and detail drawings contained within this sheet.

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The providing of this sheet by SEH shall not be construed in any manner to be in derogation of any reserved or intellectual property rights.

ASPHALT PAVEMENT
4 INCHES ASPHALT PAVEMENT
8 INCHES CRUSHED AGGREGATE BASE COURSE

CRUSHED LIMESTONE
8 INCHES CRUSHED LIMESTONE

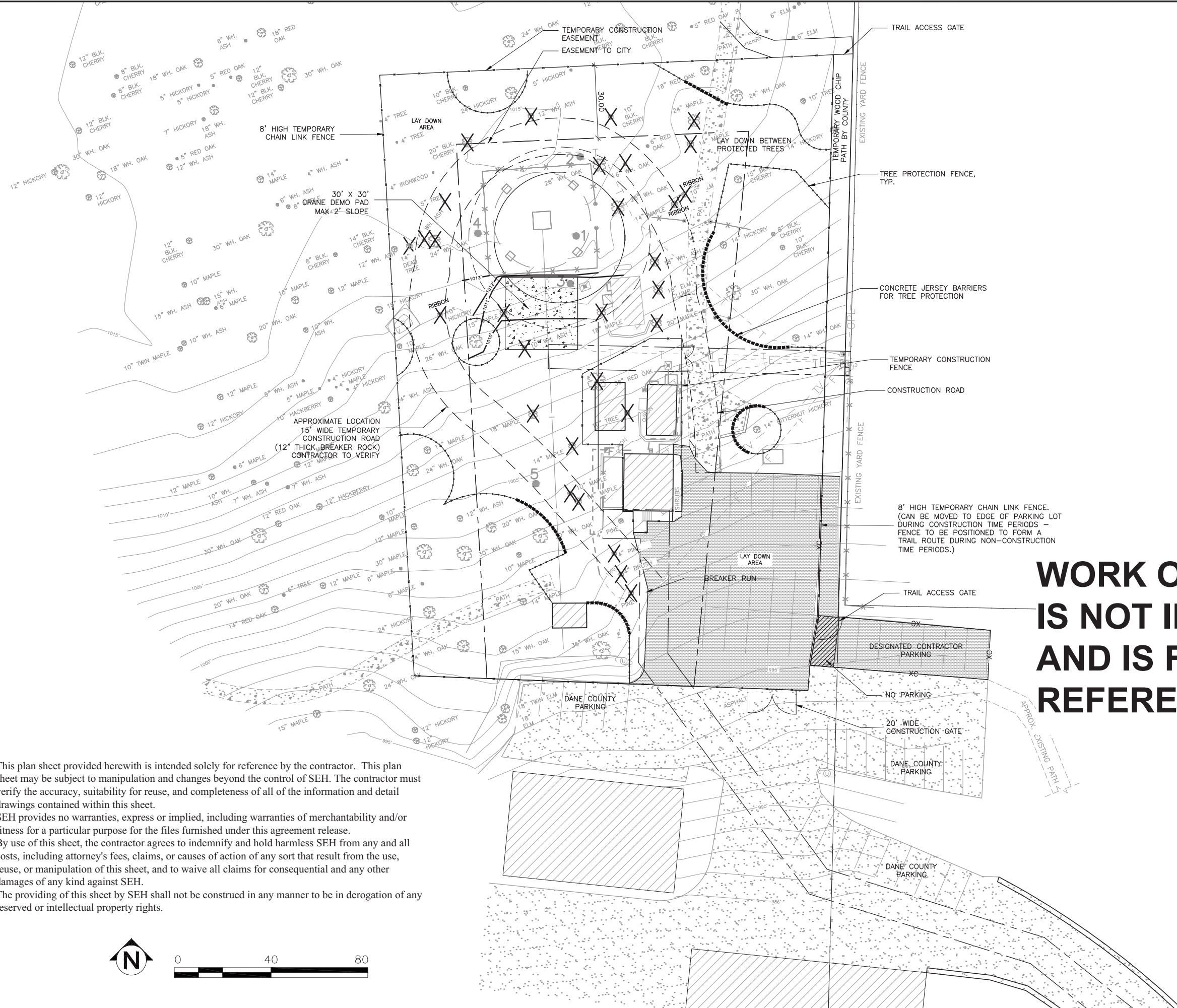


**LAKEVIEW RESERVOIR
REPLACEMENT PROJECT
MADISON, WISCONSIN**

MARK	DATE	REVISIONS	DESCRIPTION

MADWU 126154
 PROJECT NO. 07-25-14
 ISSUE DATE JON STRAND
 DESIGNED BY SID LARSON
 DRAWN BY
 Short Elliott Hendrickson, Inc. © (SEH)
 © 2004 Short Elliott Hendrickson, Inc.

SHEET TITLE: SITE PLAN
 SHEET: C2



— LEGEND —

- = COUNTY PLS CORNER
- = ELECTRIC POWER POLE
- = ELECTRIC METER
- = GROUNDING PORT
- = LIGHT POLE
- = METAL/WOOD POST
- = ELECTRIC TRANSFORMER
- = TELEPHONE PEDESTAL
- = DECIDUOUS TREE
- = PROPERTY LINE
- = BURIED ELECTRIC
- = BURIED TELEPHONE
- = BURIED FIBER OPTIC
- = EXISTING FENCELINE
- = EDGE OF WOODS
- = SPOT ELEVATION
- = POINT OF BEGINNING
- = SOIL BORINGS (5)
- = TREE & STUMP REMOVAL

NOTE:
TREE REMOVAL, CRANE PAD AND FENCING BY OTHERS

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LAKEVIEW RESERVOIR REPLACEMENT PROJECT
MADISON, WISCONSIN

MARK	DATE	REVISIONS	DESCRIPTION

SEH FILE NO. MADWU 126154

PROJECT NO. 07-25-14

ISSUE DATE JON STRAND

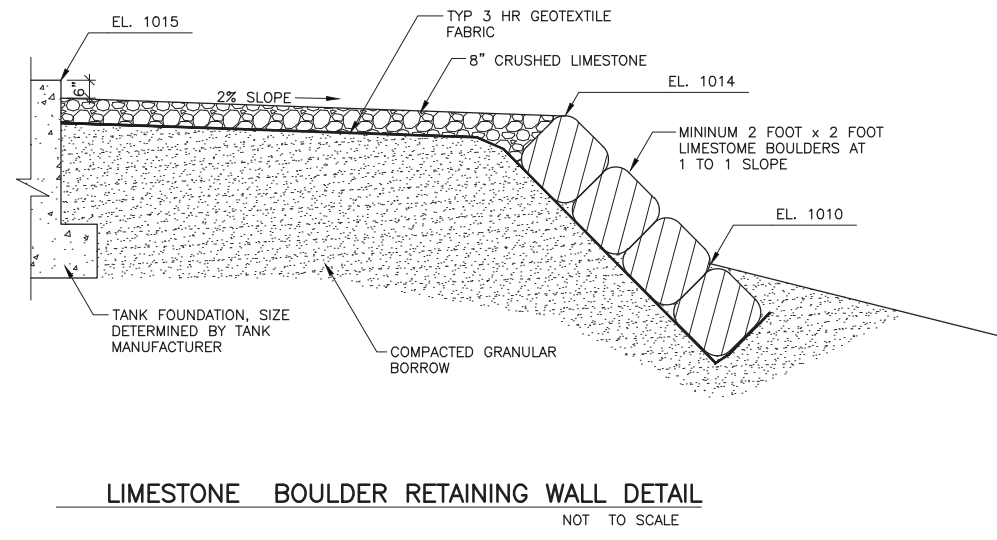
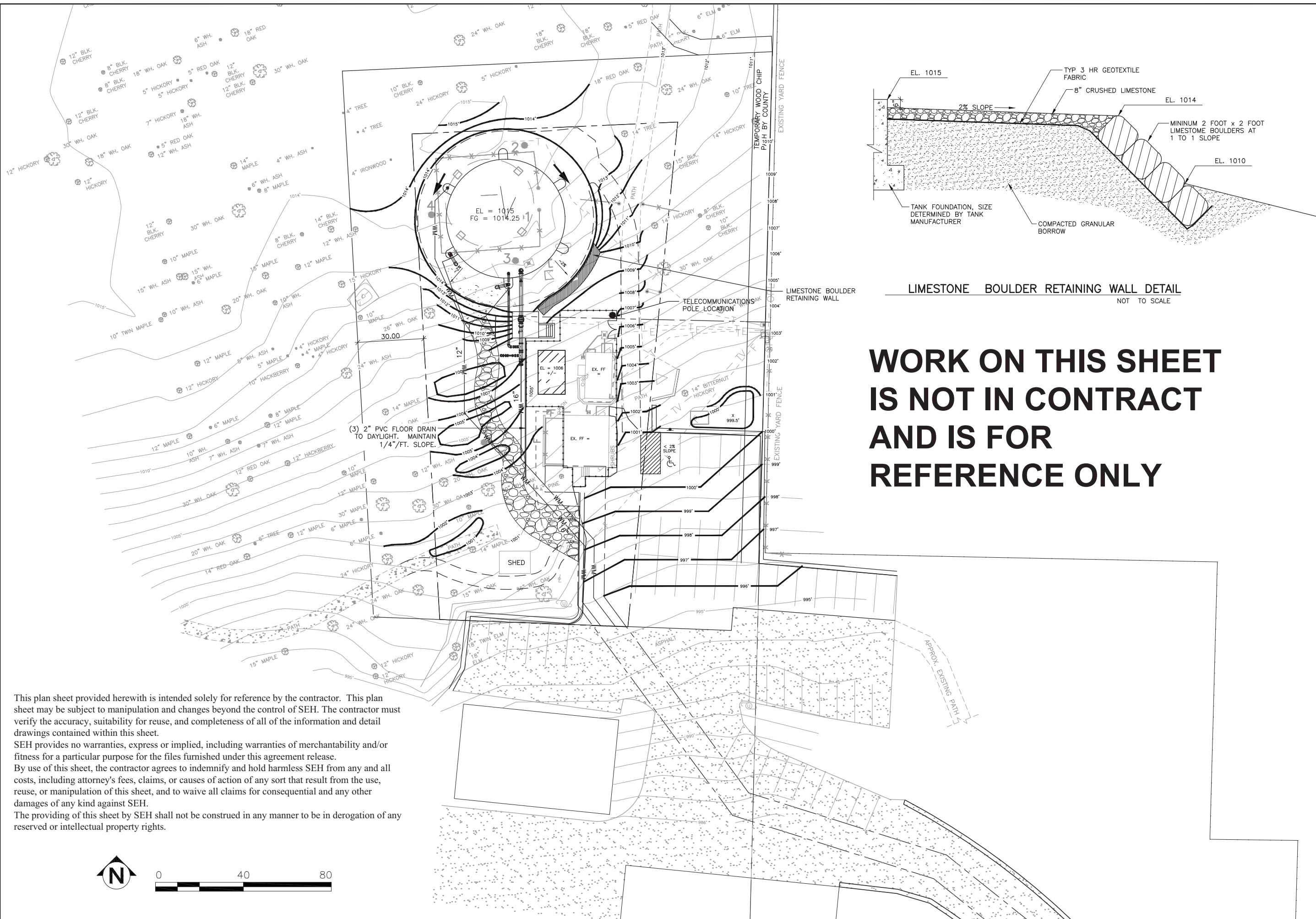
DESIGNED BY SID LARSON

DRAWN BY

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SHEET TITLE: TREE REMOVAL AND CRANE PAD PLAN

SHEET: C3



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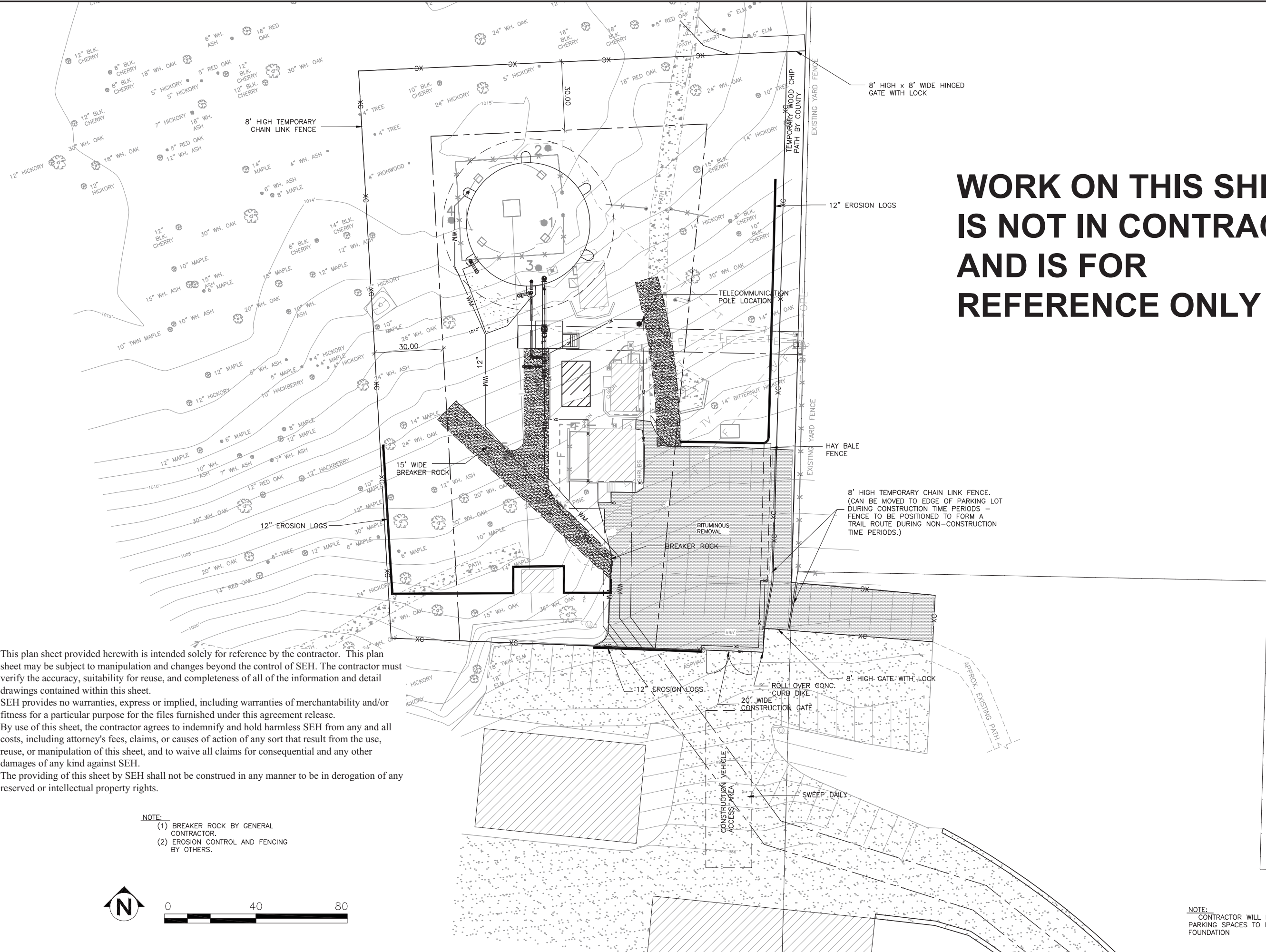
LAKEVIEW RESERVOIR
REPLACEMENT PROJECT
MADISON, WISCONSIN

MARK	DATE	REVISIONS	DESCRIPTION
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SEH FILE NO. MADWU 126154
PROJECT NO.
ISSUE DATE 07-25-14
DESIGNED BY JON STRAND
DRAWN BY SID LARSON
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SHEET TITLE
GRADING PLAN

SHEET
C4



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- NOTE:**
- (1) BREAKER ROCK BY GENERAL CONTRACTOR.
 - (2) EROSION CONTROL AND FENCING BY OTHERS.



NOTE:
 CONTRACTOR WILL NEED TO RELEASE PARKING SPACES TO PARKING AFTER FOUNDATION

**LAKEVIEW RESERVOIR
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SHEET TITLE
EROSION CONTROL PLAN

SHEET
C5