

Madison, Wisconsin

CITY OF MADISON

MADISON WATER UTILITY

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

JANUARY 21, 2014

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

WATER SYSTEM IMPROVEMENTS APPROVED BY:

[Signature] 1-21-14
Principal Engineer Date

WATER DESIGNED BY:

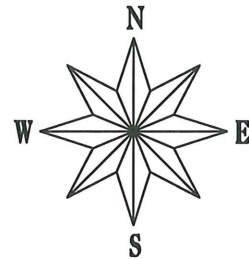
[Signature]
KELLY B. MIESS
E-41821
MADISON WI
1-21-2014
PROFESSIONAL ENGINEER
1-21-2014

INDEX OF SHEETS

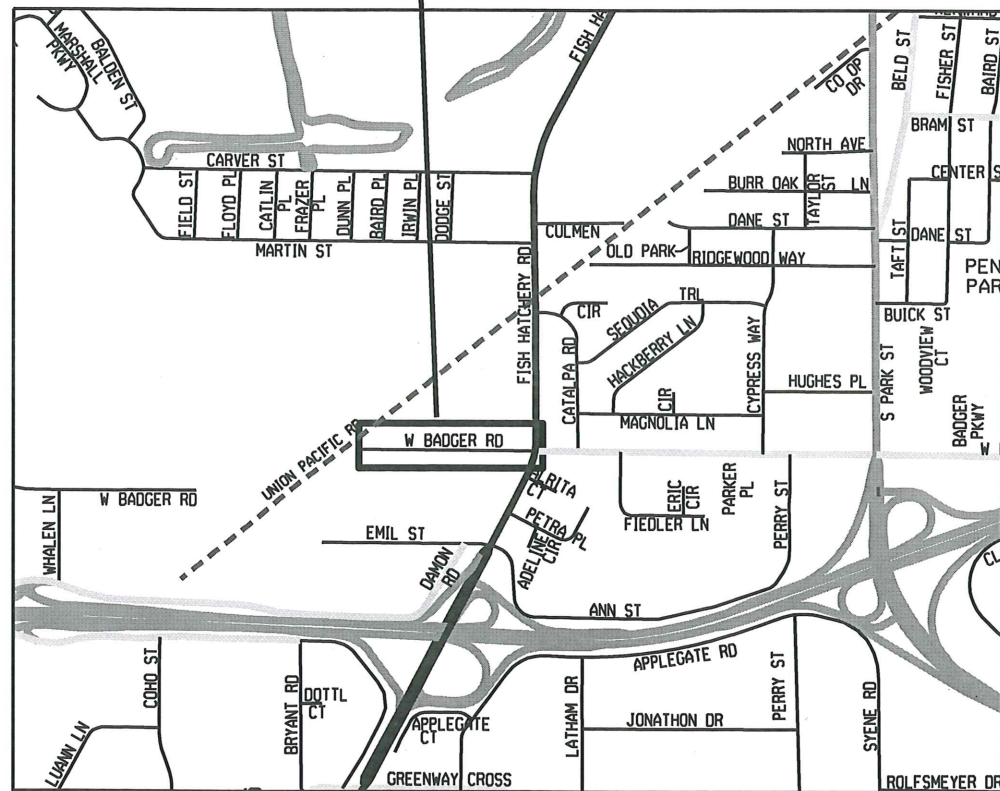
SHEET NO.	TITLE
1	ALIGNMENT & CONTROL
A1-A2	EROSION CONTROL PLAN
EC1-EC5	WATER PLAN & PROFILE
W1-W5	WATER IMPACT PLAN
W6-W7	WATER ESTIMATE OF MATERIALS
W8	RESTORATION PLAN
RI-R5	

WEST BADGER ROAD & LANCASTER DRIVE WATER MAIN REPLACEMENT

CITY PROJECT NO. 53W1709
CITY CONTRACT NO. 7211

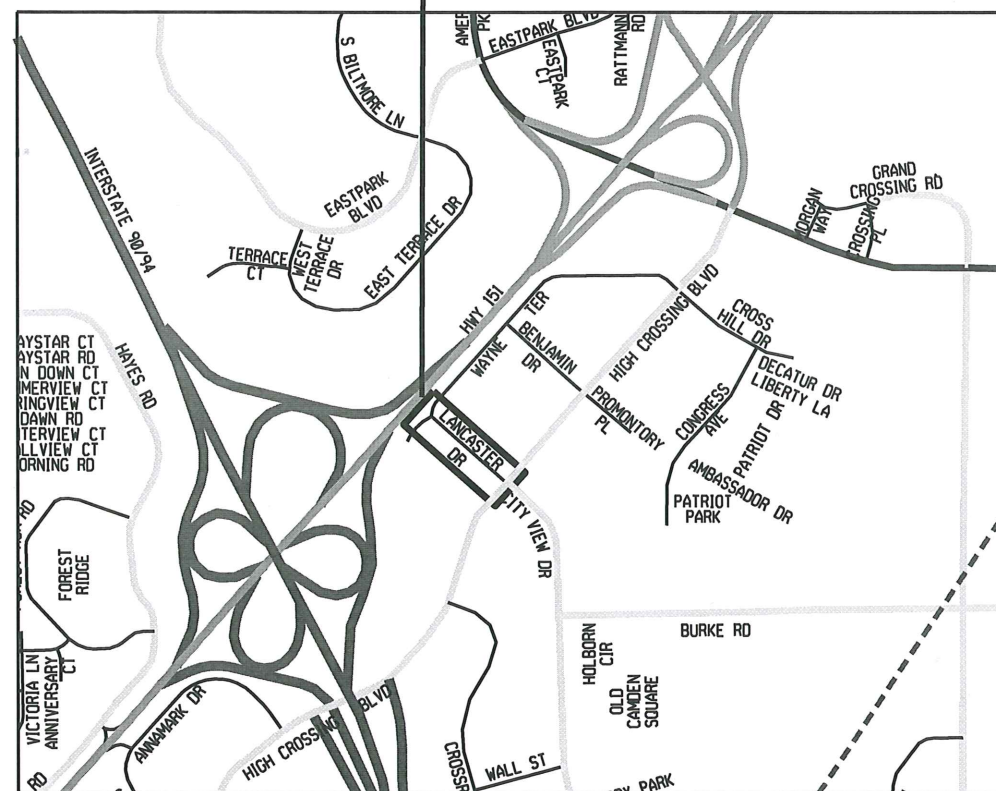


PROJECT LOCATION



W BADGER ROAD

PROJECT LOCATION



LANCASTER DRIVE

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	☀

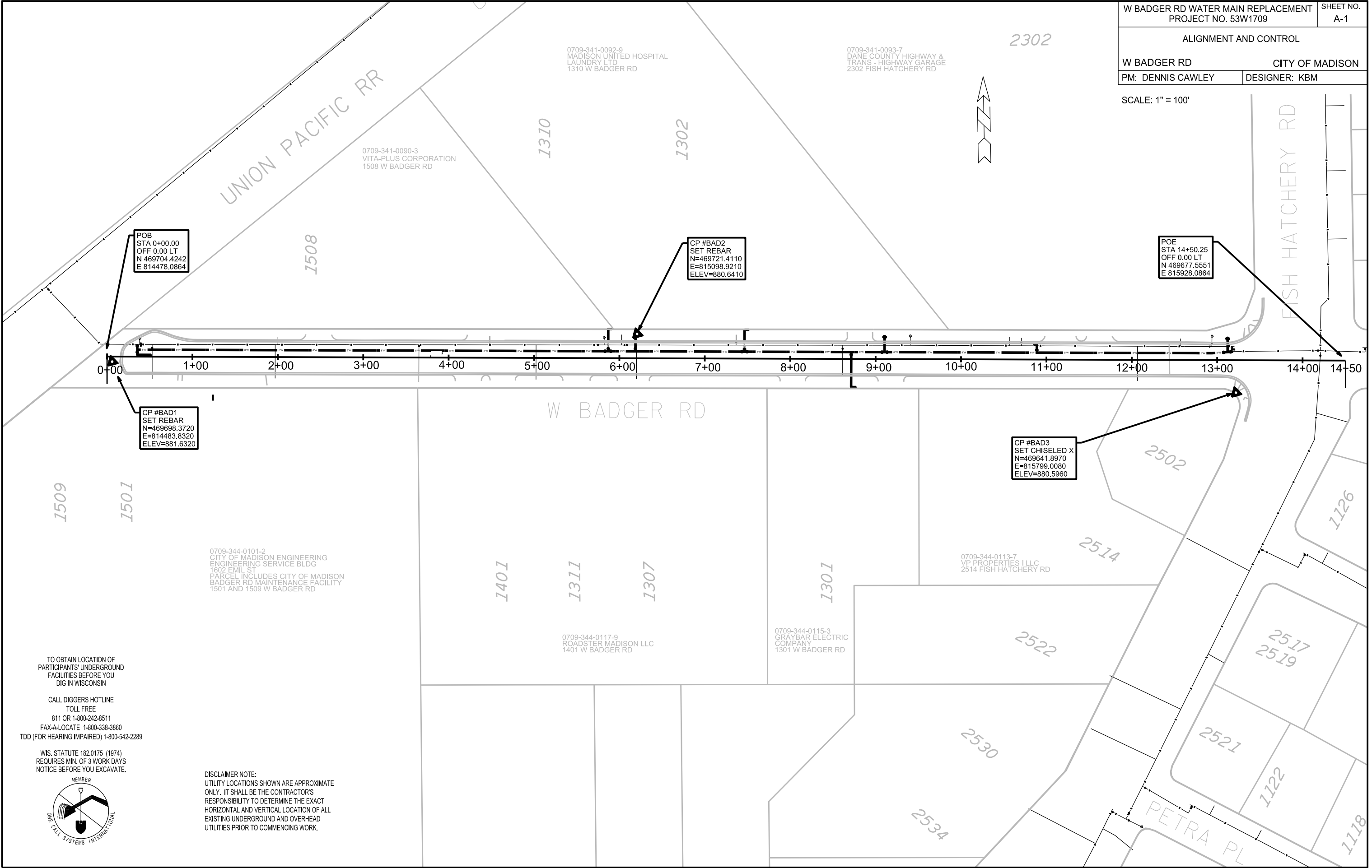
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SCALE: 1" = 100'



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STA 0+00.00
OFF 0.00 LT
N 469704.4242
E 814478.0864

CP #BAD2
SET REBAR
N=469721.4110
E=815098.9210
ELEV=880.6410

POE
STA 14+50.25
OFF 0.00 LT
N 469677.5551
E 815928.0864

CP #BAD1
SET REBAR
N=469698.3720
E=814483.8320
ELEV=881.6320

CP #BAD3
SET CHISELED X
N=469641.8970
E=815799.0080
ELEV=880.5960

0709-344-0101-2
CITY OF MADISON ENGINEERING
ENGINEERING SERVICE BLDG
1802 EMIL ST
PARCEL INCLUDES CITY OF MADISON
BADGER RD MAINTENANCE FACILITY
1501 AND 1509 W BADGER RD

0709-344-0117-9
ROADSTER MADISON LLC
1401 W BADGER RD

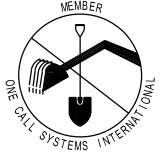
0709-344-0115-3
GRAYBAR ELECTRIC
COMPANY
1301 W BADGER RD

0709-344-0113-7
VP PROPERTIES LLC
2514 FISH HATCHERY RD

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.



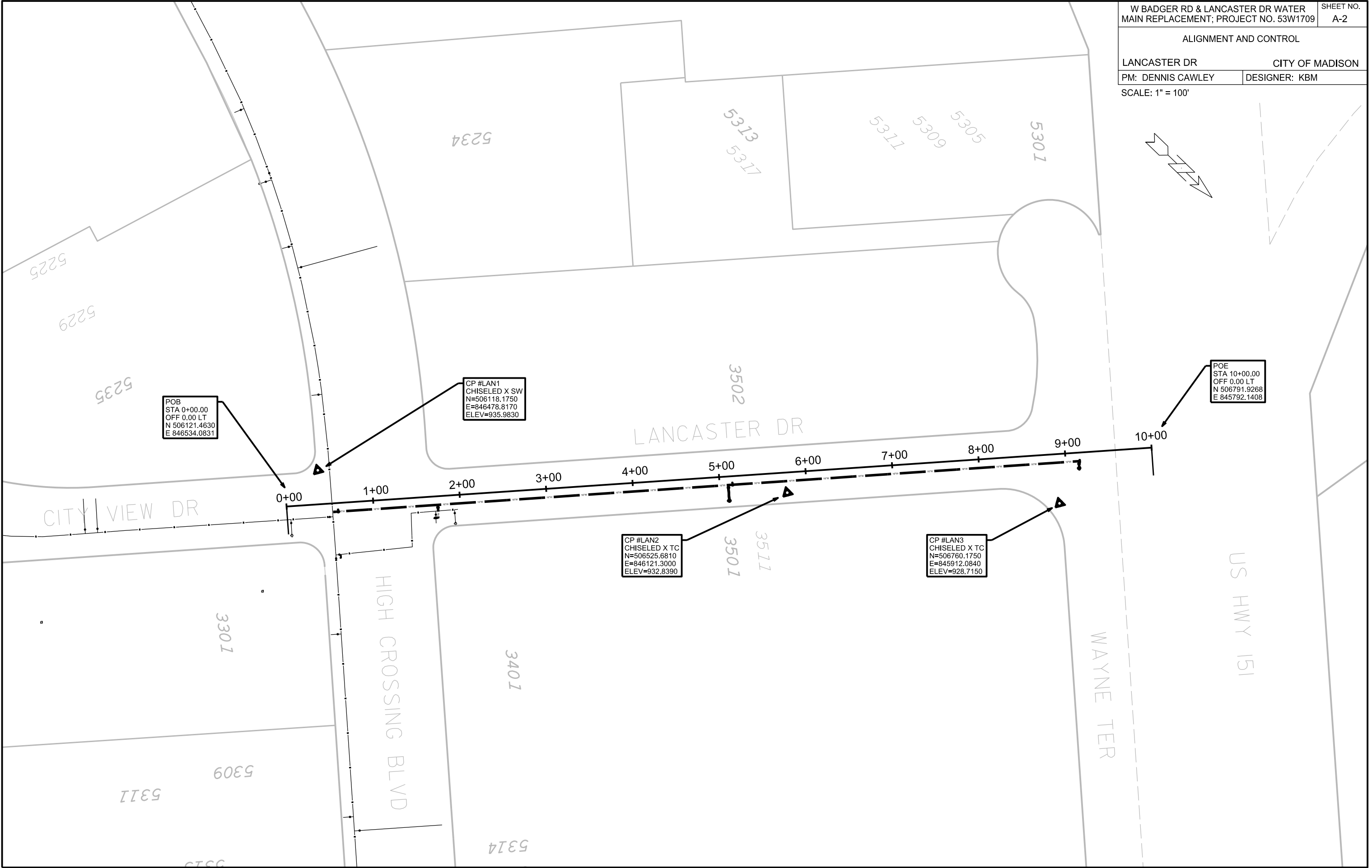
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POB
 STA 0+00.00
 OFF 0.00 LT
 N 506121.4630
 E 846534.0831

CP #LAN1
 CHISELED X SW
 N=506118.1750
 E=846478.8170
 ELEV=935.9830

POE
 STA 10+00.00
 OFF 0.00 LT
 N 506791.9268
 E 845792.1408

CP #LAN2
 CHISELED X TC
 N=506525.6810
 E=846121.3000
 ELEV=932.8390

CP #LAN3
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PLOT SCALE: _____

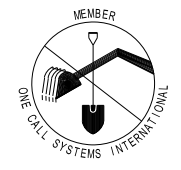
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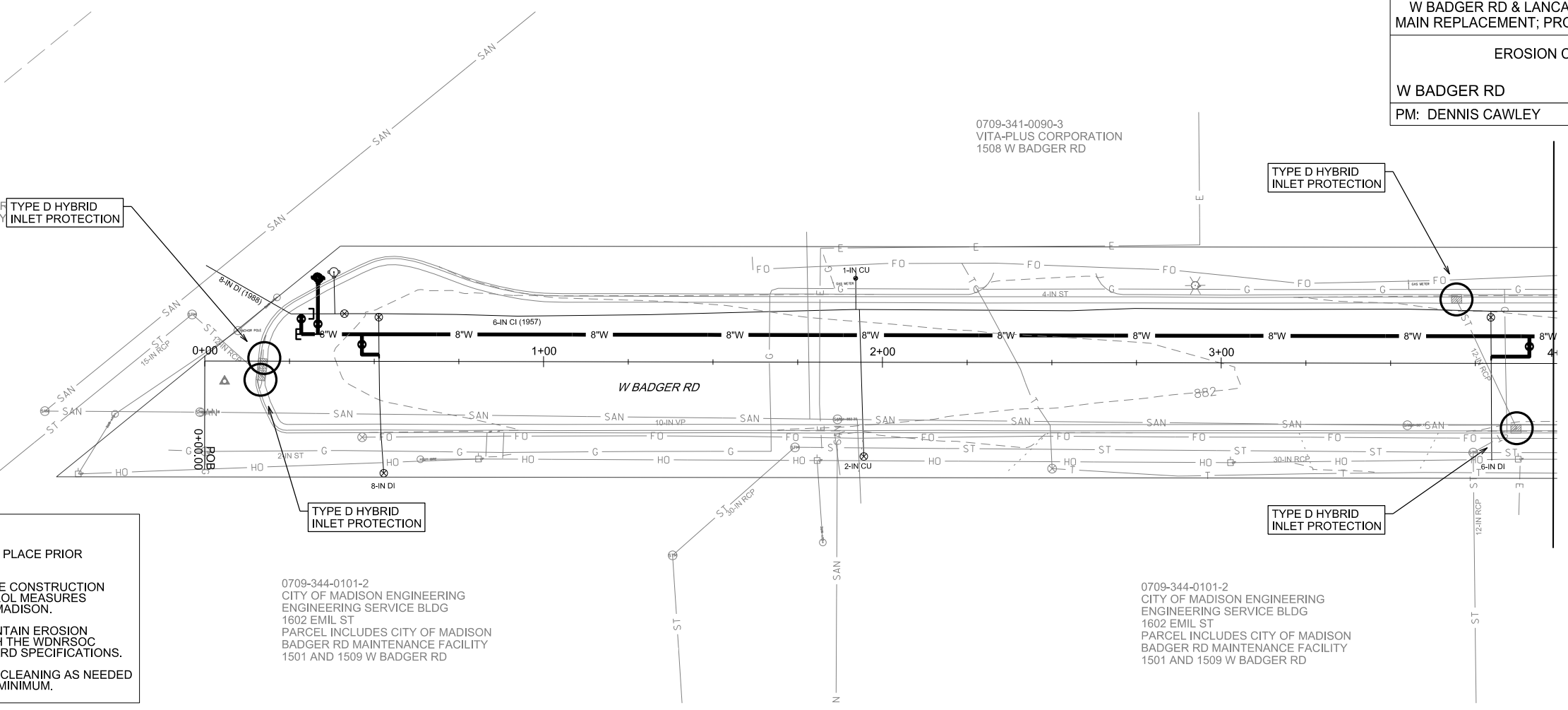
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0709-341-0090-3 VITA-PLUS CORPORATION 1508 W BADGER RD

0709-344-0101-2 CITY OF MADISON ENGINEERING ENGINEERING SERVICE BLDG 1602 EMIL ST
 PARCEL INCLUDES CITY OF MADISON BADGER RD MAINTENANCE FACILITY 1501 AND 1509 W BADGER RD

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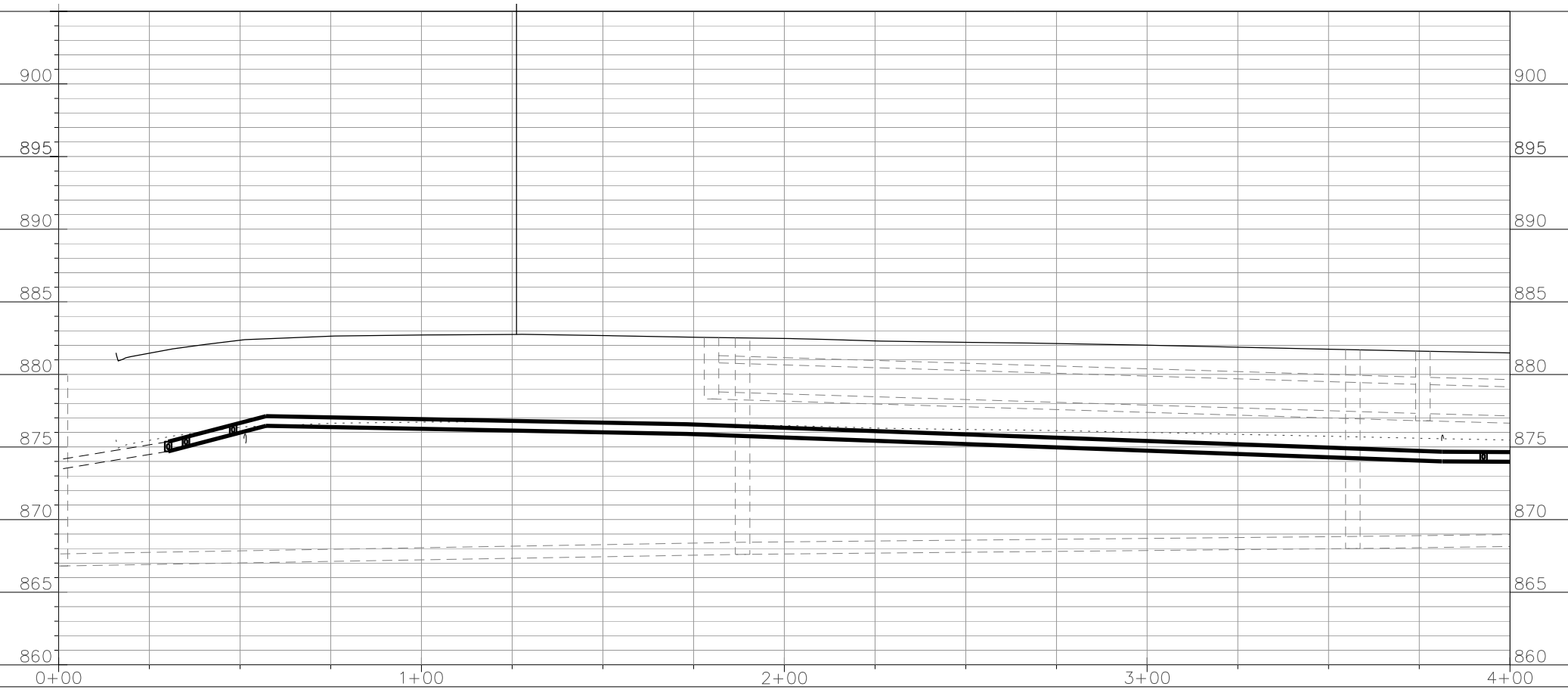


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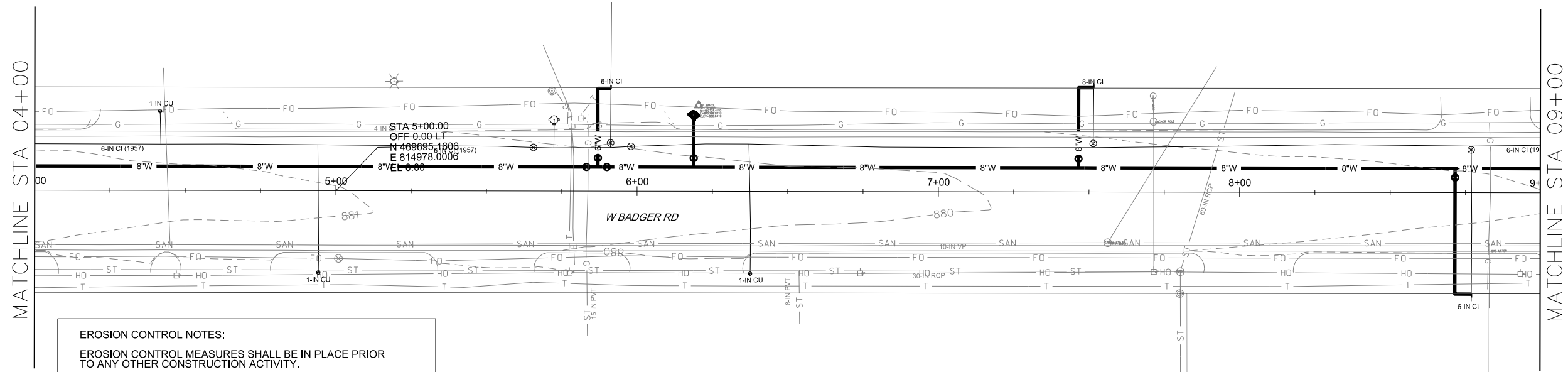


0709-341-0090-3
 VITA-PLUS CORPORATION
 1508 W BADGER RD

NO EROSION CONTROL
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 MADISON UNITED HOSPITAL
 LAUNDRY LTD
 1310 W BADGER RD

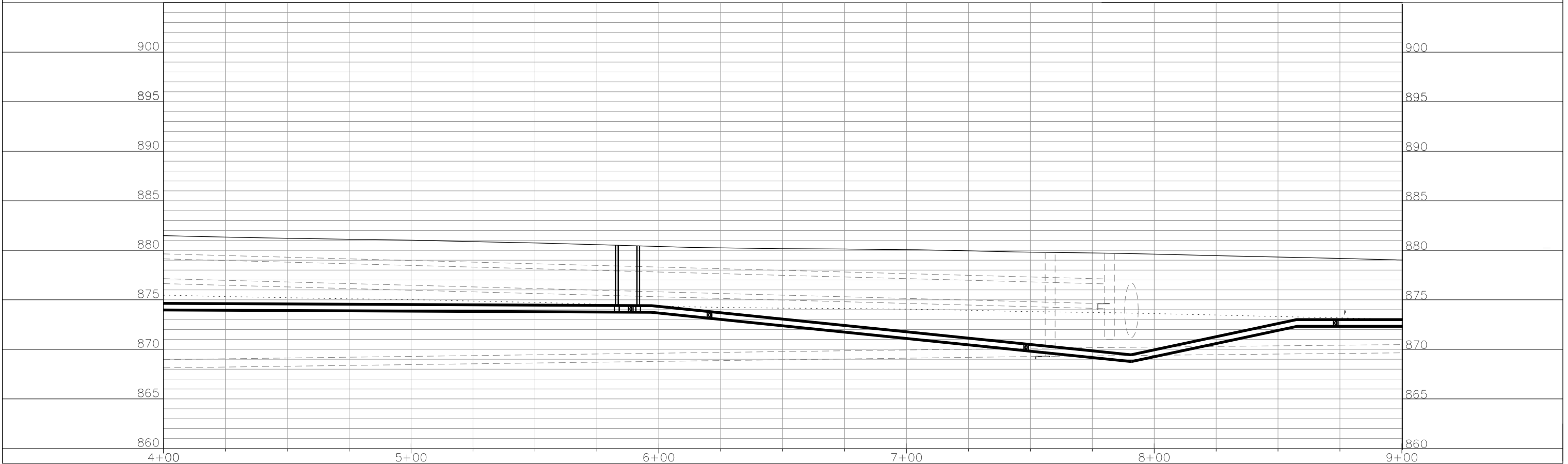
W BADGER RD & LANCASTER DR WATER MAIN REPLACEMENT; PROJECT NO. 53W1709		SHEET NO. EC-2
EROSION CONTROL PLAN		
W BADGER RD		CITY OF MADISON
PM: DENNIS CAWLEY	DESIGNER: KBM	



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0709-344-0117-9
 ROADSTER MADISON LLC
 1401 W BADGER RD

0709-344-0115-3
 GRAYBAR ELECTRIC COMPANY
 1301 W BADGER RD



PLOT SCALE: _____

PLOT NAME: _____

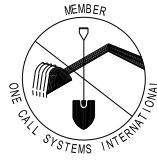
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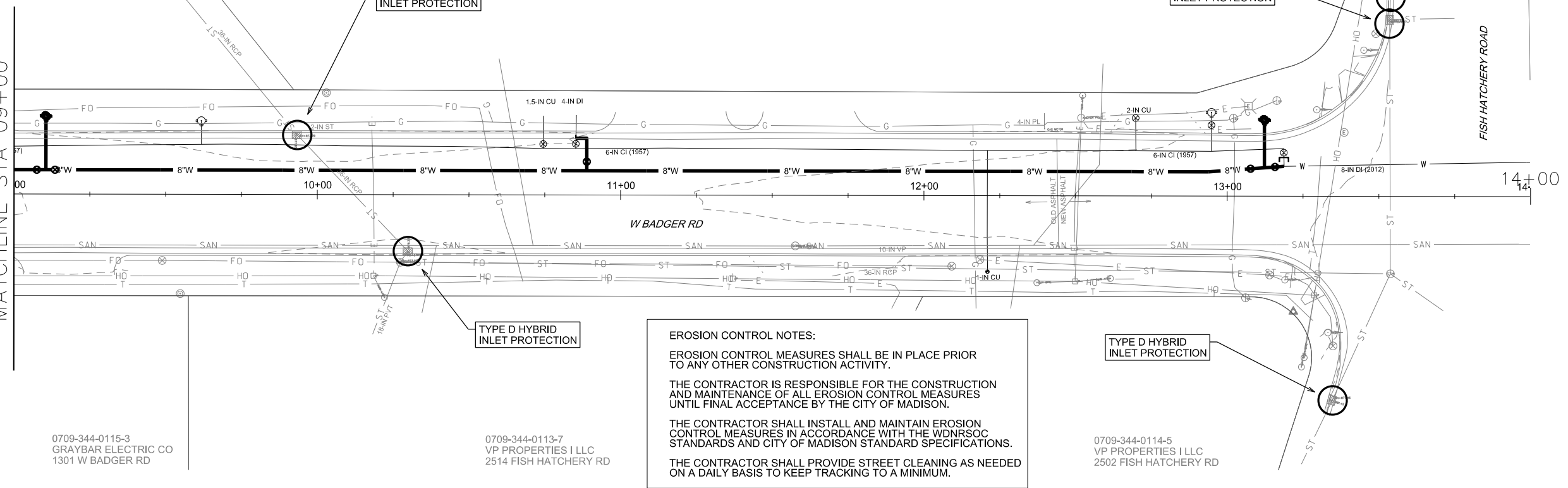
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MADISON UNITED HOSPITAL
LAUNDRY LTD
1310 W BADGER RD

0709-341-0093-7
DANE COUNTY HIGHWAY &
TRANS - HIGHWAY GARAGE
2302 FISH HATCHERY RD

MATCHLINE STA 09+00



W BADGER RD & LANCASTER DR WATER MAIN REPLACEMENT; PROJECT NO. 53W1709

EROSION CONTROL PLAN

W BADGER RD CITY OF MADISON

PM: DENNIS CAWLEY DESIGNER: KBM

SHEET NO. EC-3

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0709-344-0113-7
VP PROPERTIES I LLC
2514 FISH HATCHERY RD

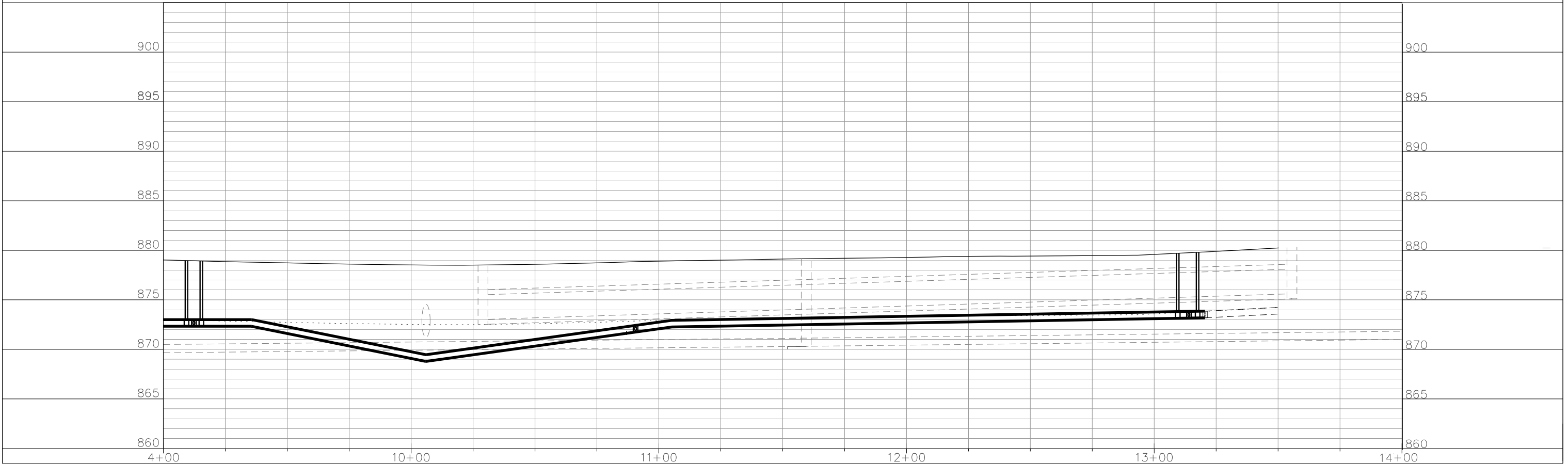
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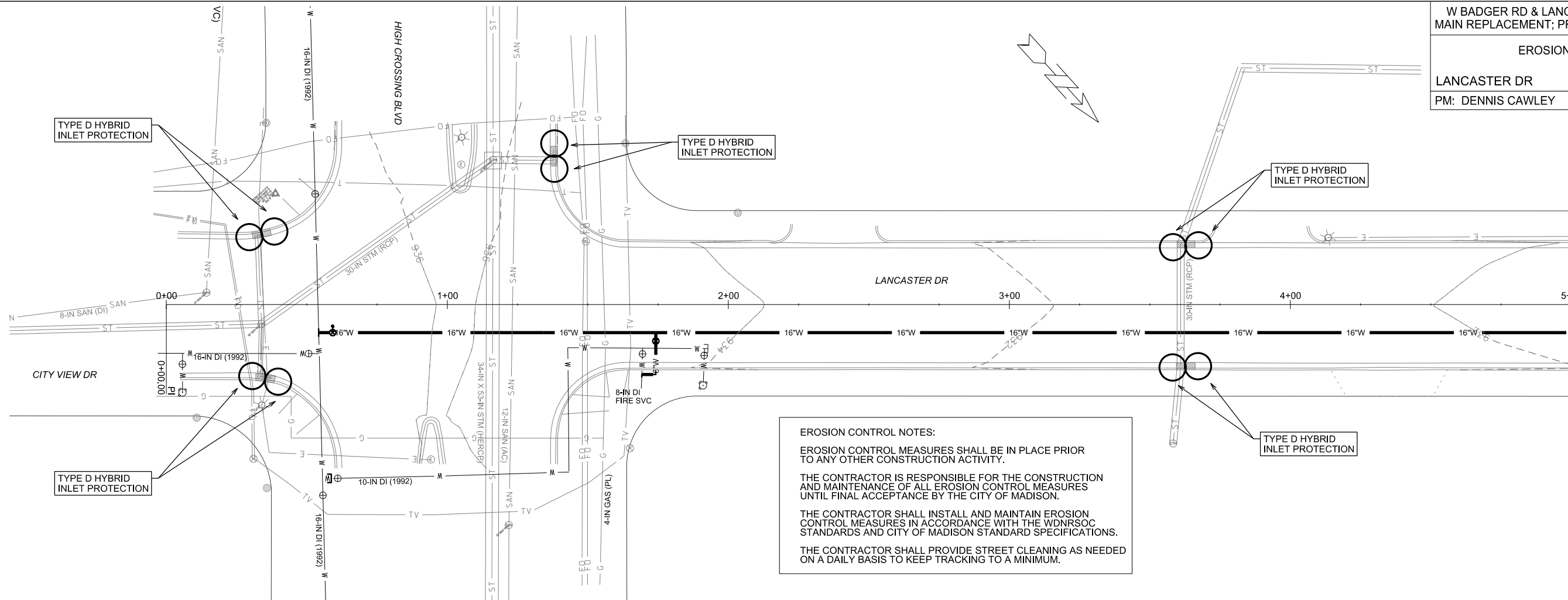
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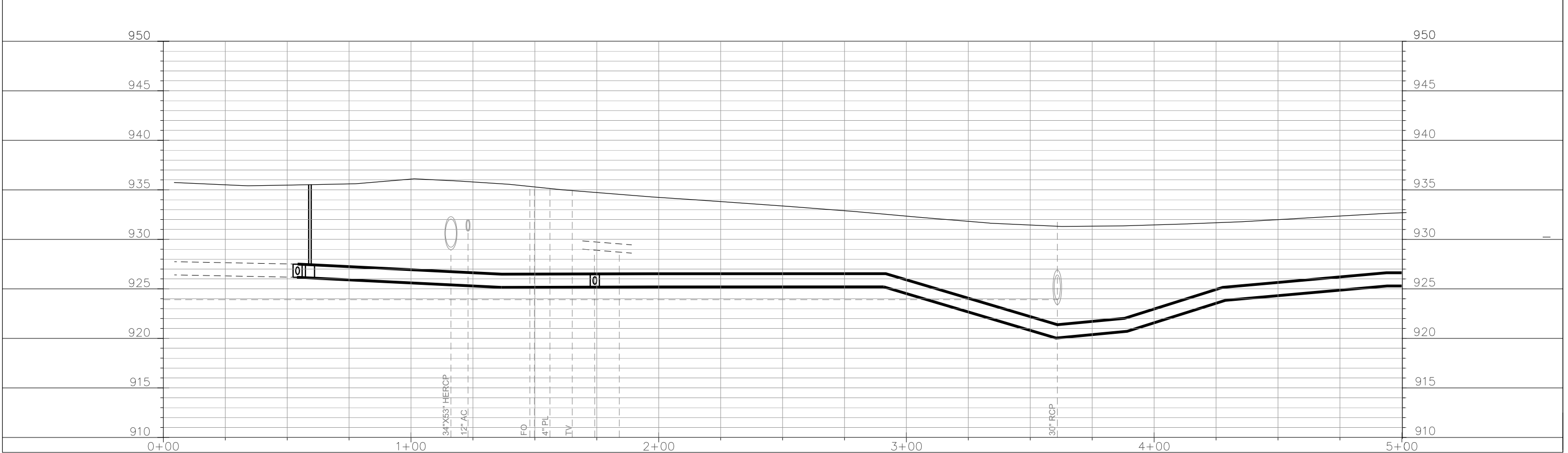
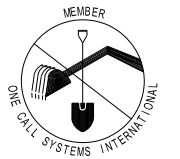




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MATCHLINE STA 5+00

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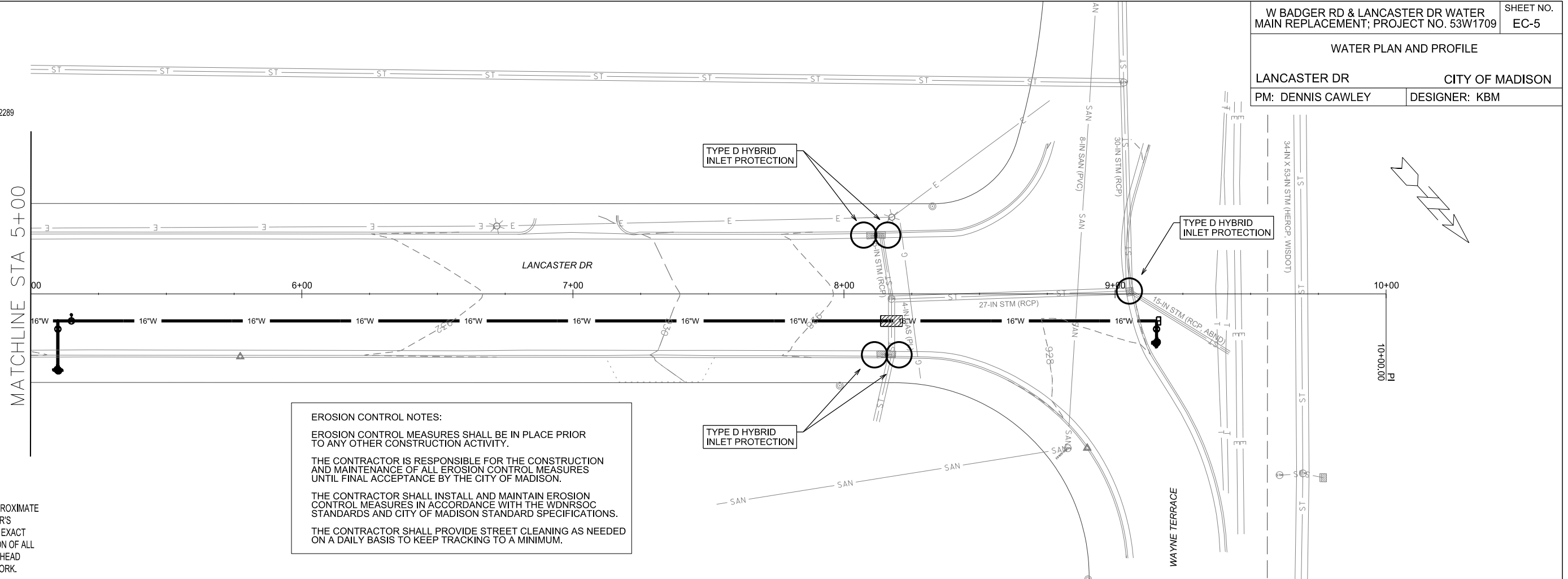


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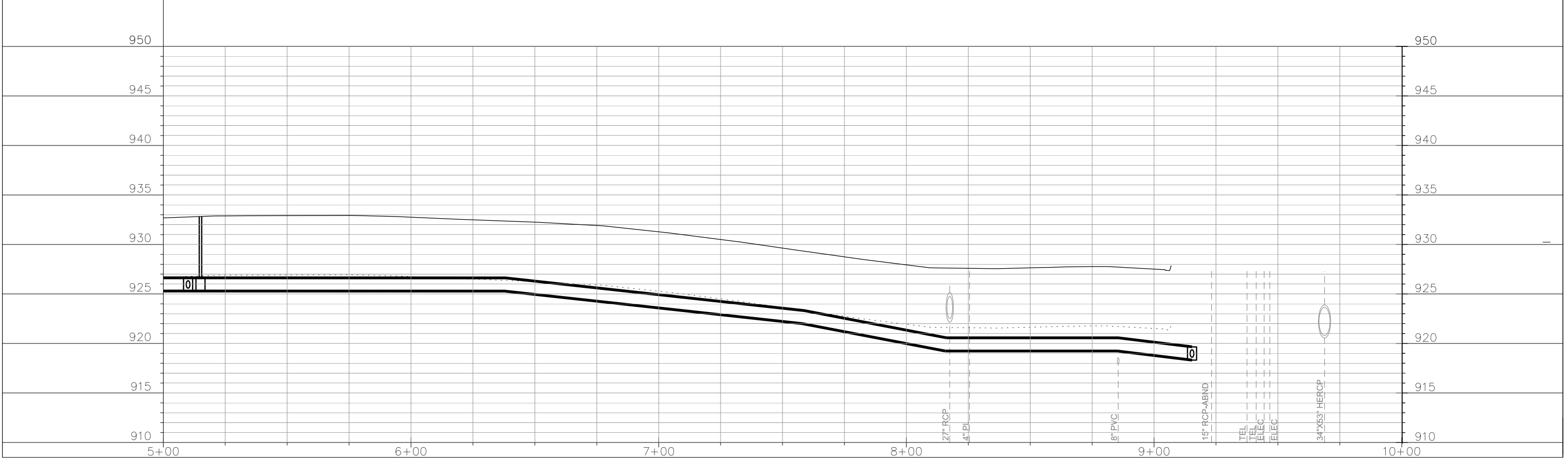
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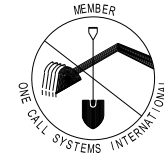
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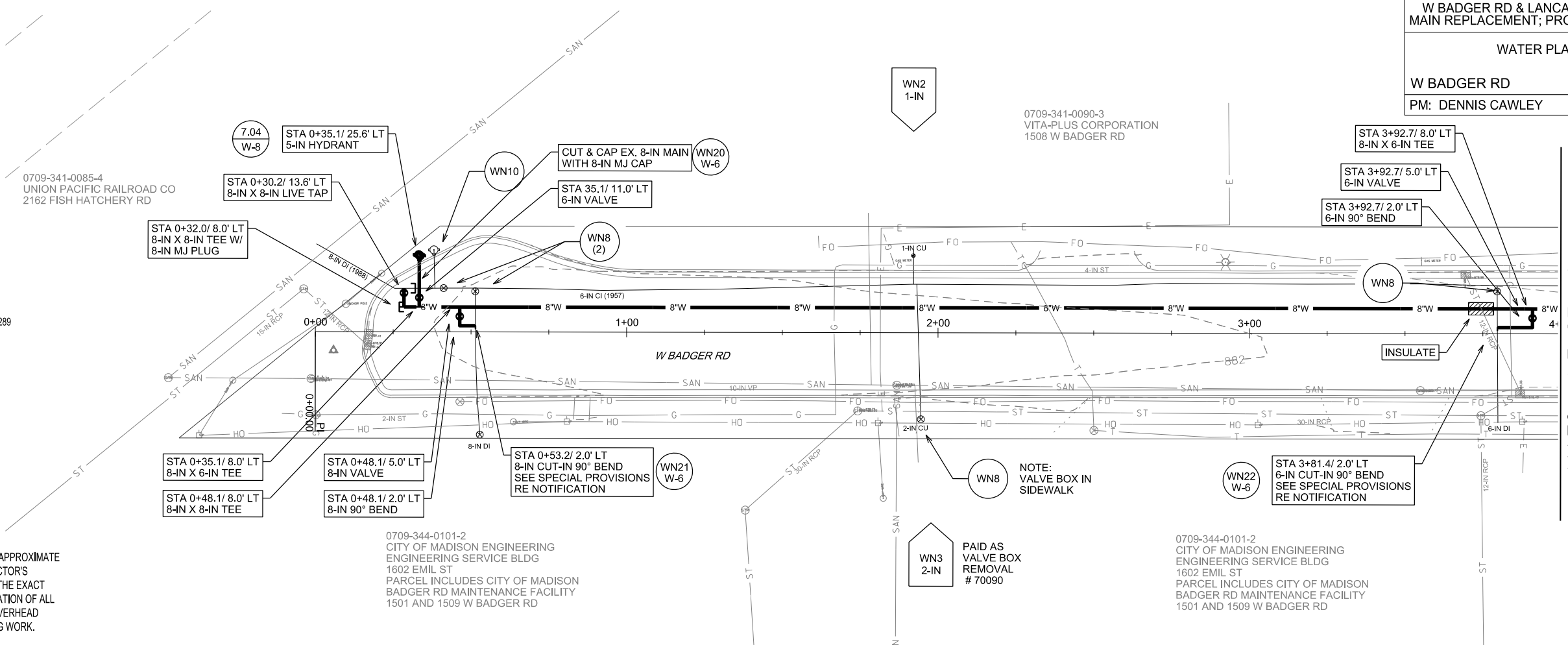
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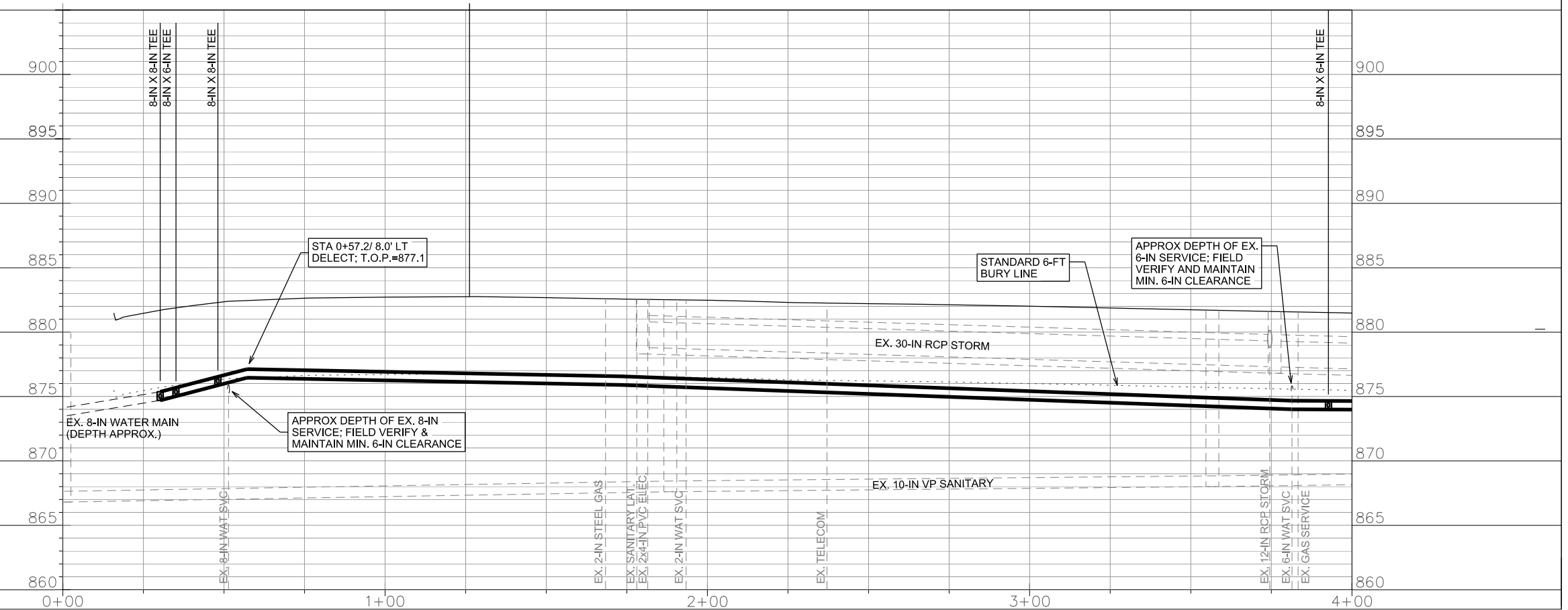


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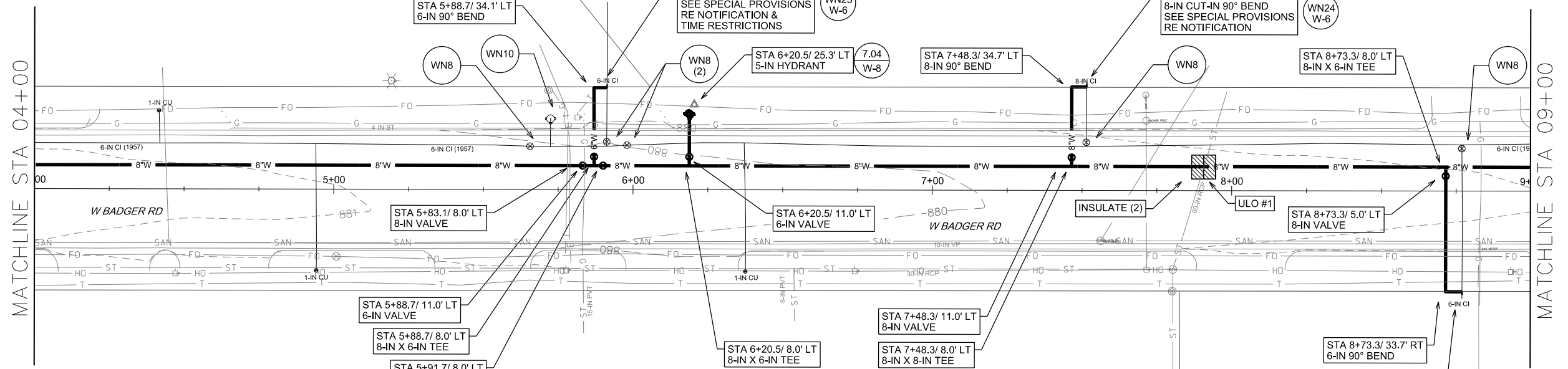


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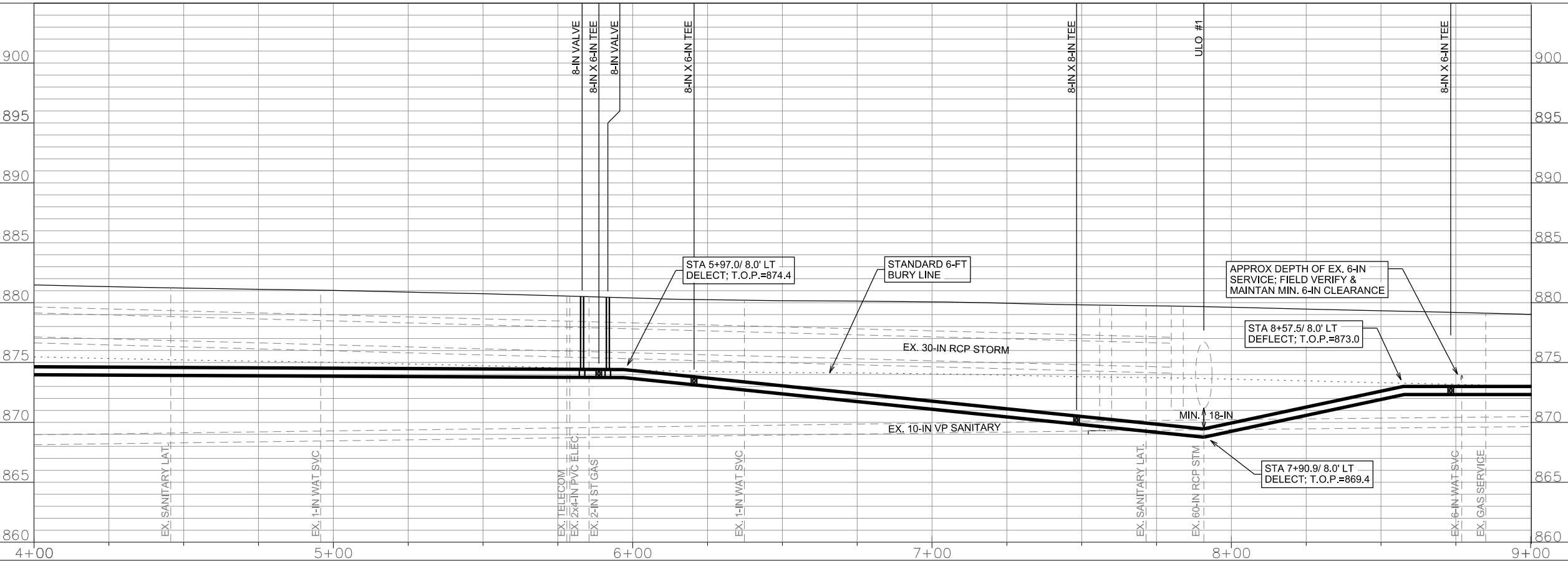
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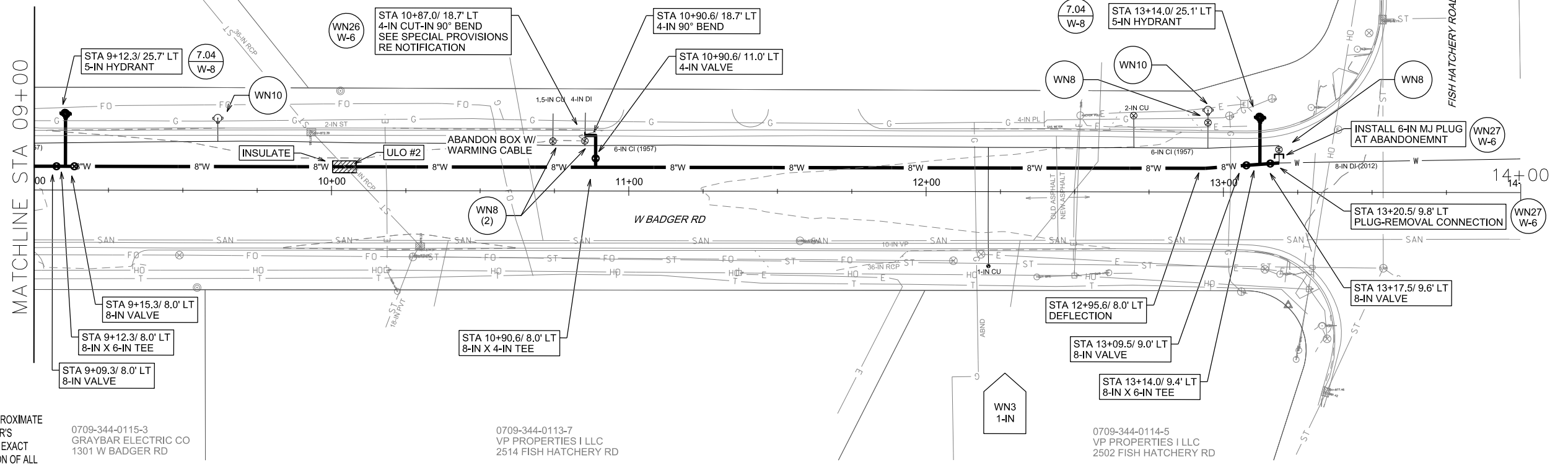
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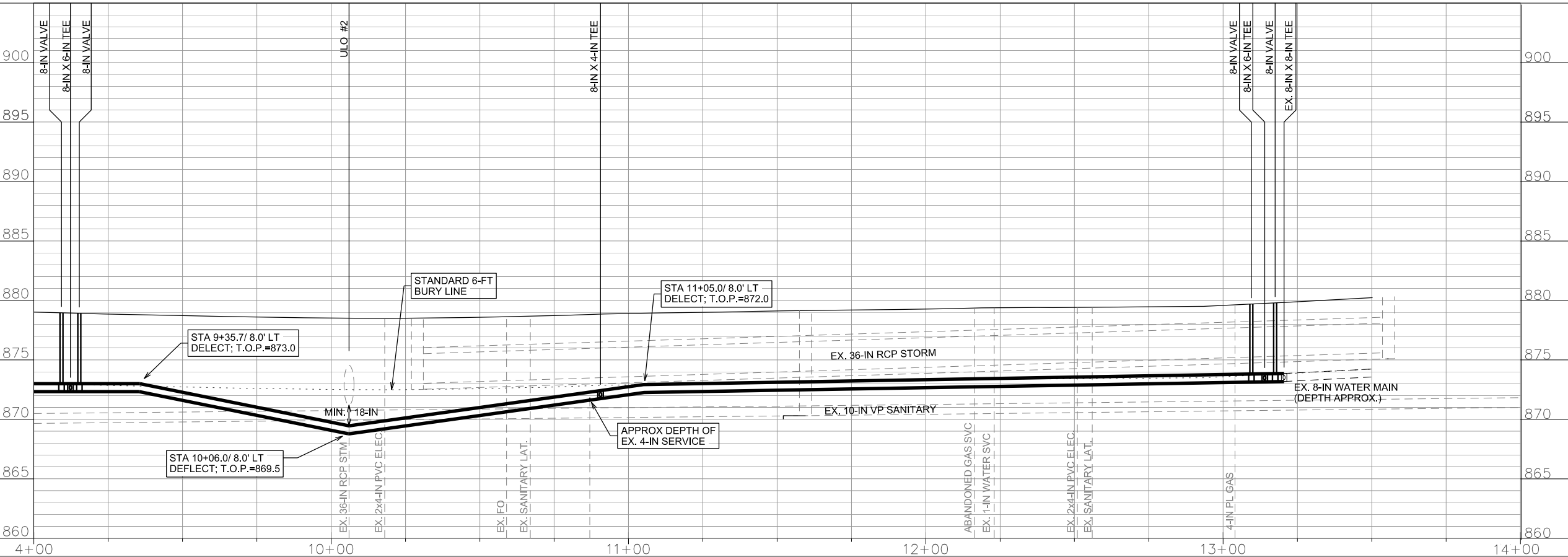
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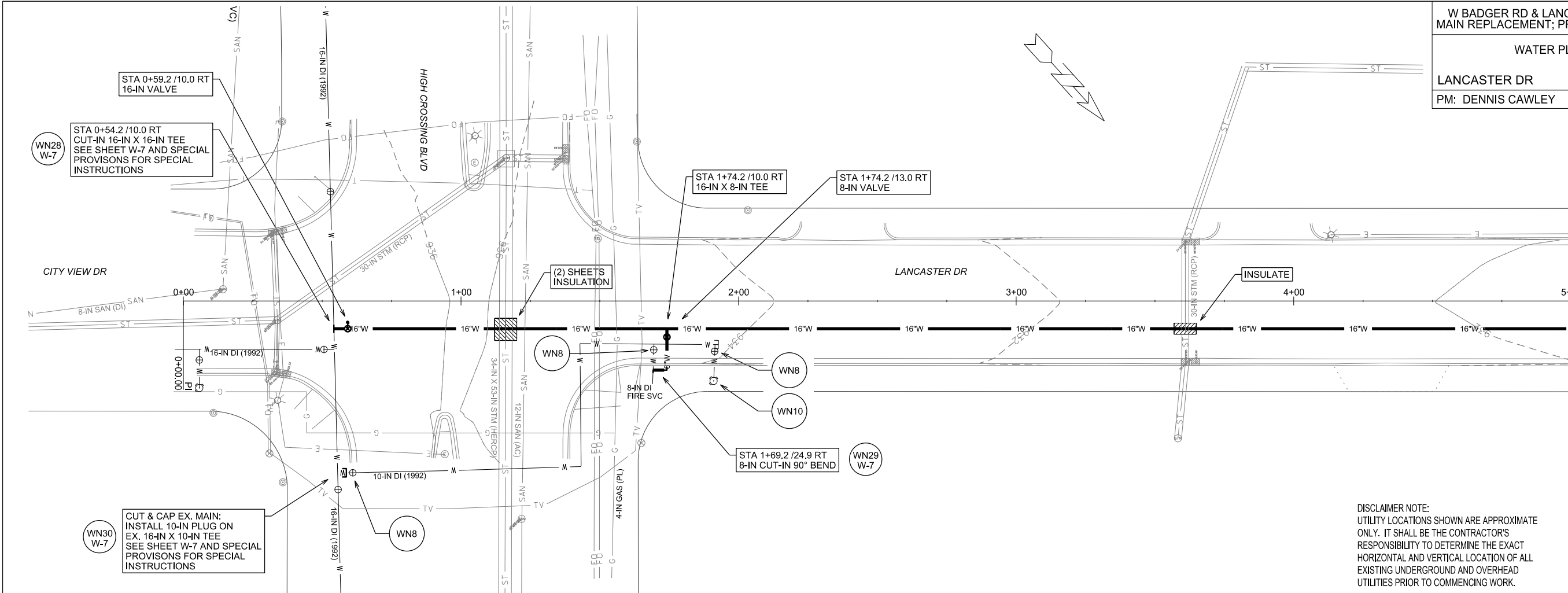
SHEET NO. W-3



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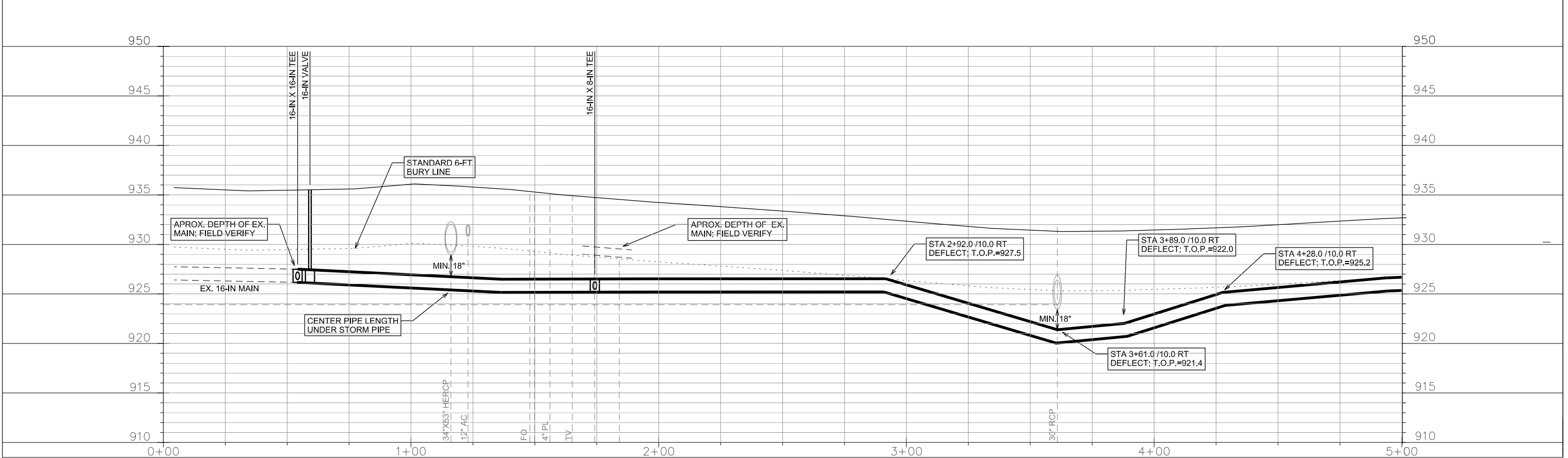
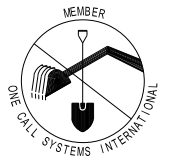
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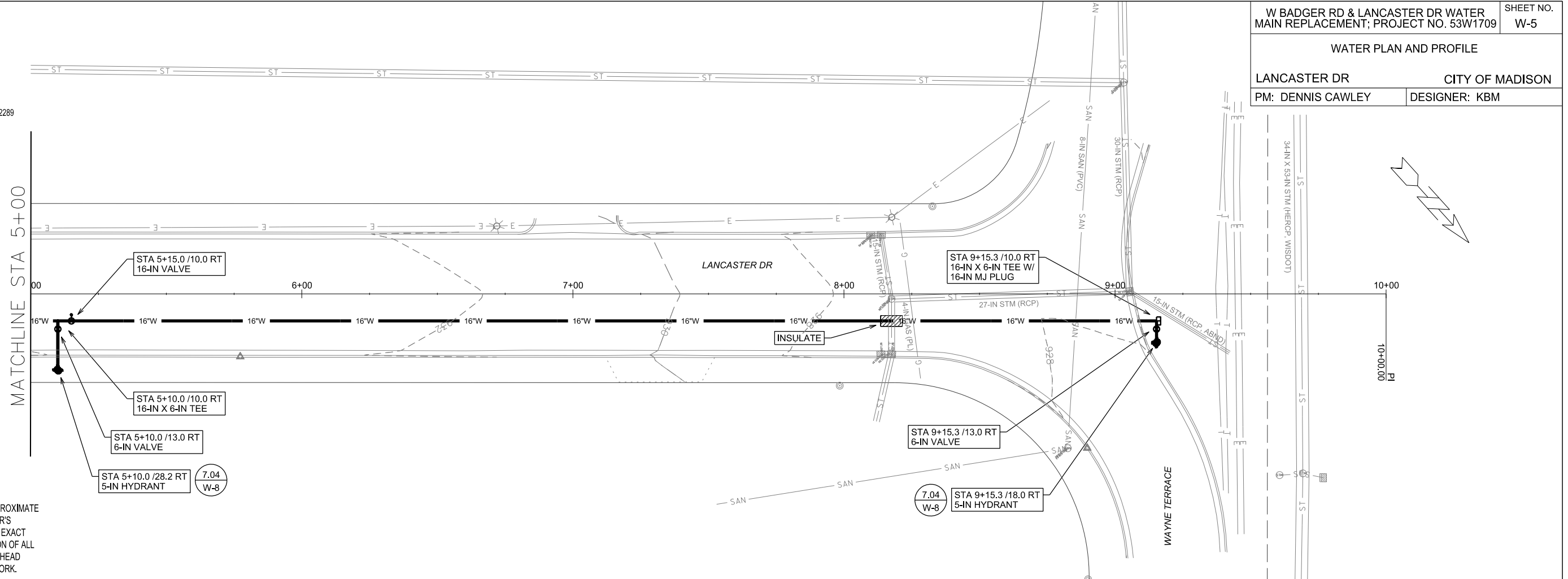
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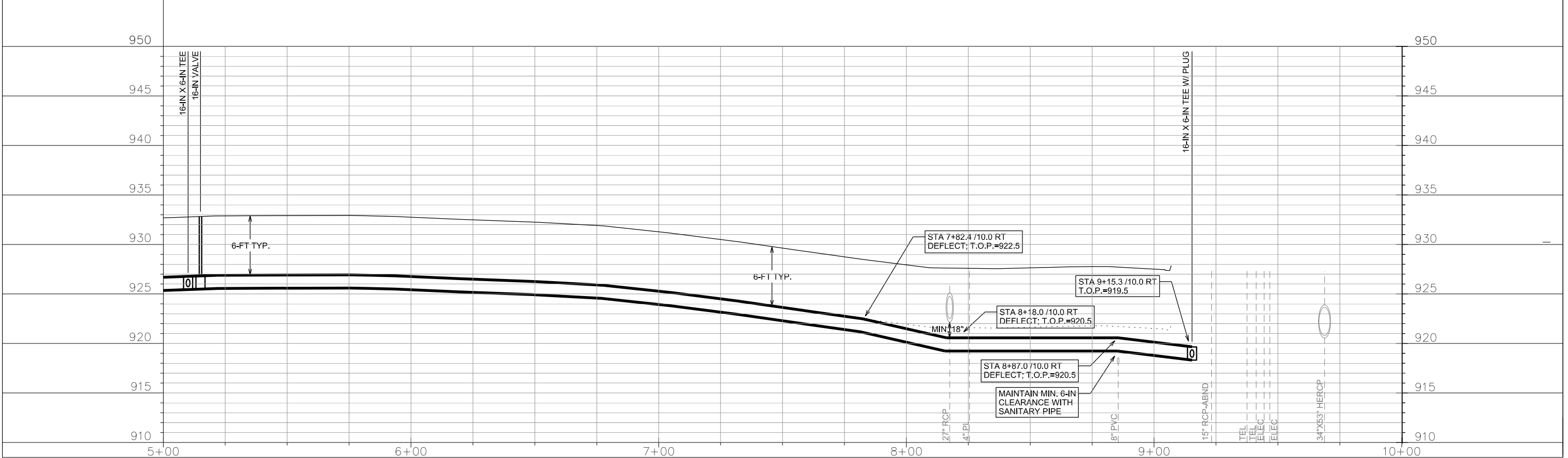
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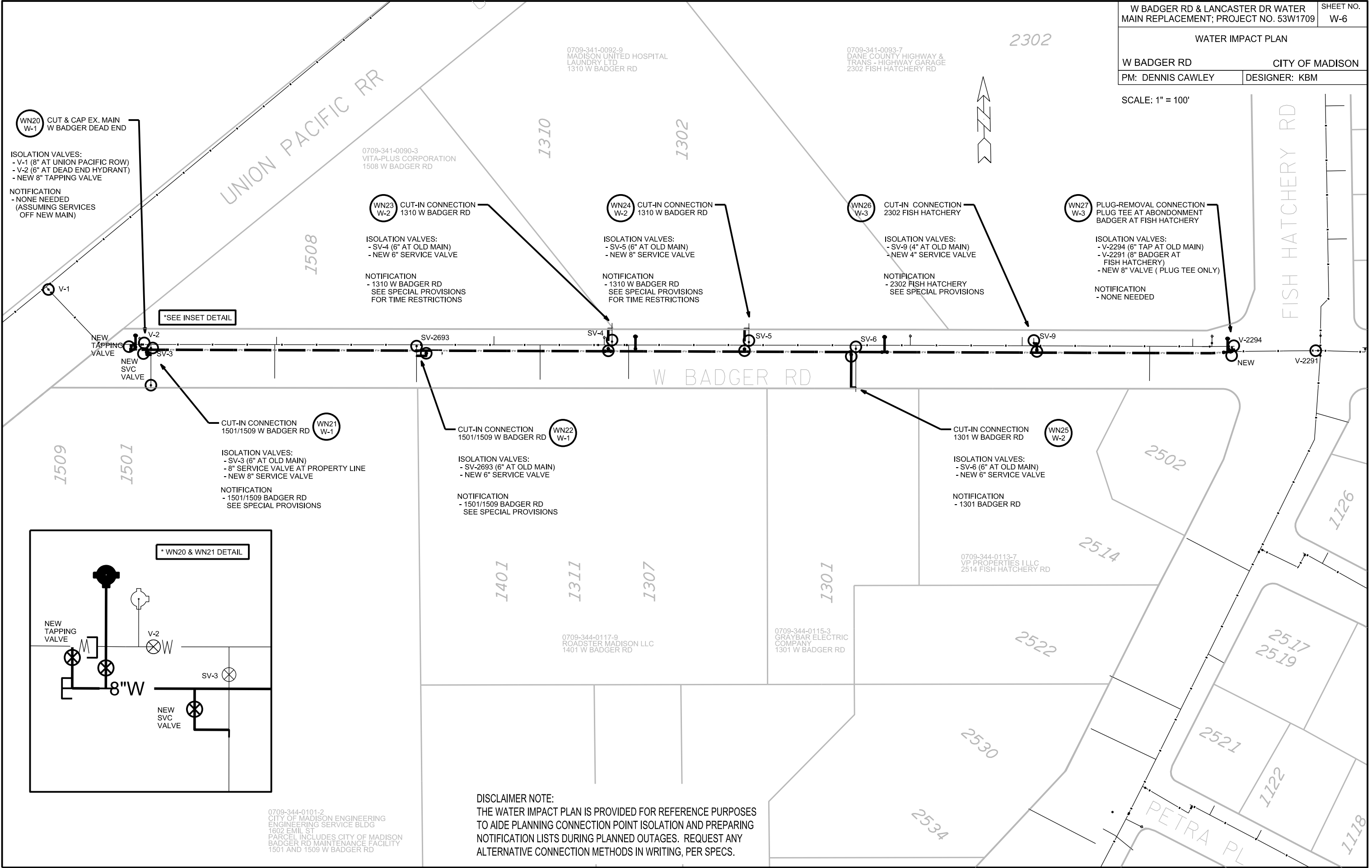


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PLOT SCALE: _____
 PLOT NAME: _____
 REV. DATE: _____
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SCALE: 1" = 100'



WN20 CUT & CAP EX. MAIN W BADGER DEAD END

ISOLATION VALVES:
 - V-1 (8" AT UNION PACIFIC ROW)
 - V-2 (6" AT DEAD END HYDRANT)
 - NEW 8" TAPPING VALVE

NOTIFICATION
 - NONE NEEDED (ASSUMING SERVICES OFF NEW MAIN)

WN23 CUT-IN CONNECTION 1310 W BADGER RD

ISOLATION VALVES:
 - SV-4 (6" AT OLD MAIN)
 - NEW 8" SERVICE VALVE

NOTIFICATION
 - 1310 W BADGER RD
 SEE SPECIAL PROVISIONS FOR TIME RESTRICTIONS

WN24 CUT-IN CONNECTION 1310 W BADGER RD

ISOLATION VALVES:
 - SV-5 (6" AT OLD MAIN)
 - NEW 8" SERVICE VALVE

NOTIFICATION
 - 1310 W BADGER RD
 SEE SPECIAL PROVISIONS FOR TIME RESTRICTIONS

WN26 CUT-IN CONNECTION 2302 FISH HATCHERY

ISOLATION VALVES:
 - SV-9 (4" AT OLD MAIN)
 - NEW 4" SERVICE VALVE

NOTIFICATION
 - 2302 FISH HATCHERY
 SEE SPECIAL PROVISIONS

WN27 PLUG-REMOVAL CONNECTION PLUG TEE AT ABANDONMENT BADGER AT FISH HATCHERY

ISOLATION VALVES:
 - V-2294 (6" TAP AT OLD MAIN)
 - V-2291 (8" BADGER AT FISH HATCHERY)
 - NEW 8" VALVE (PLUG TEE ONLY)

NOTIFICATION
 - NONE NEEDED

*SEE INSET DETAIL

CUT-IN CONNECTION 1501/1509 W BADGER RD WN21 W-1

ISOLATION VALVES:
 - SV-3 (6" AT OLD MAIN)
 - 8" SERVICE VALVE AT PROPERTY LINE
 - NEW 8" SERVICE VALVE

NOTIFICATION
 - 1501/1509 BADGER RD
 SEE SPECIAL PROVISIONS

CUT-IN CONNECTION 1501/1509 W BADGER RD WN22 W-1

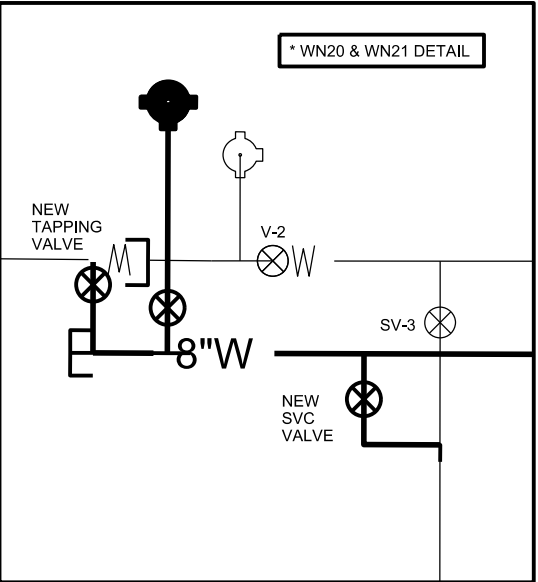
ISOLATION VALVES:
 - SV-2693 (6" AT OLD MAIN)
 - NEW 6" SERVICE VALVE

NOTIFICATION
 - 1501/1509 BADGER RD
 SEE SPECIAL PROVISIONS

CUT-IN CONNECTION 1301 W BADGER RD WN25 W-2

ISOLATION VALVES:
 - SV-6 (6" AT OLD MAIN)
 - NEW 6" SERVICE VALVE

NOTIFICATION
 - 1301 BADGER RD

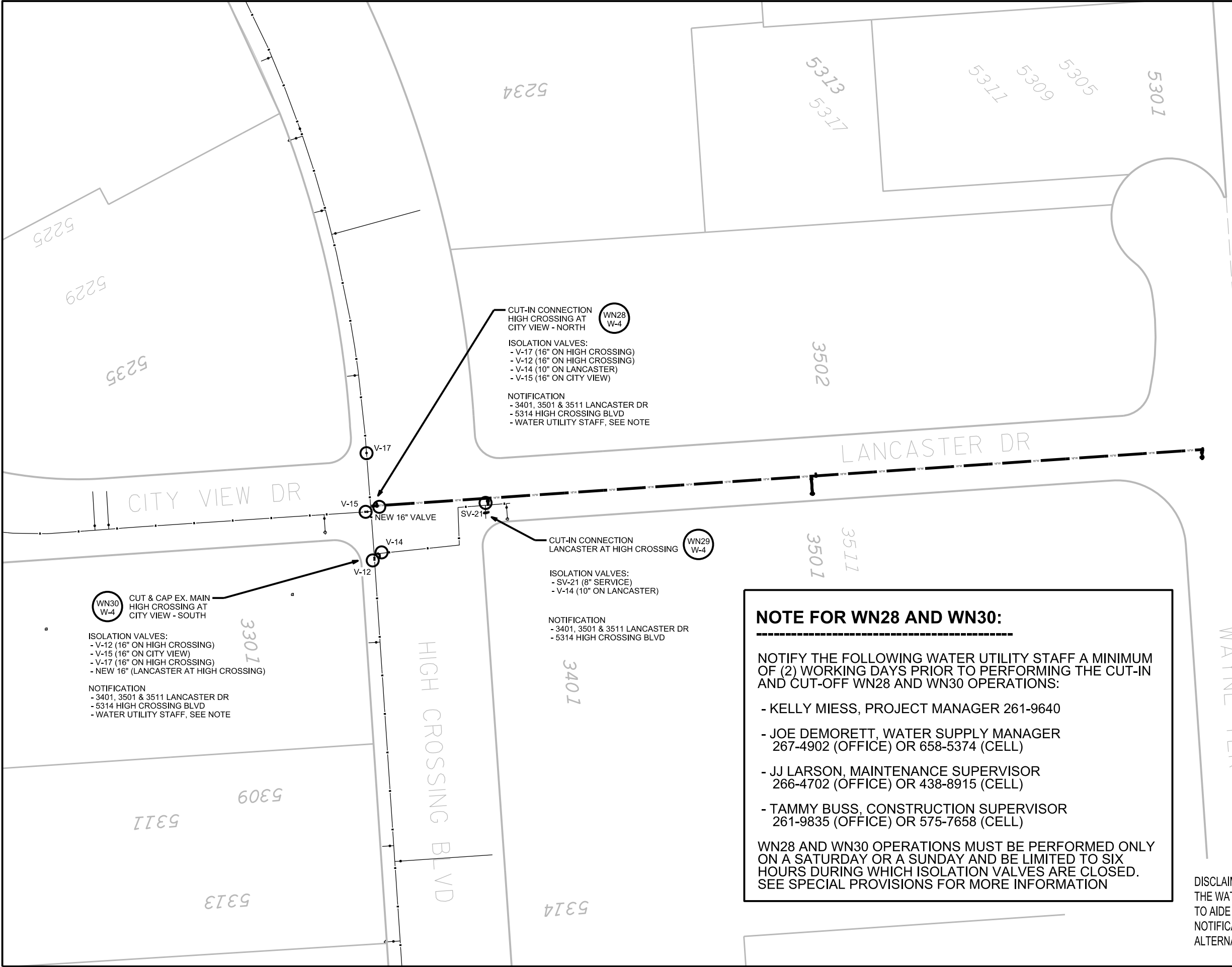


* WN20 & WN21 DETAIL

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0709-344-0101-2
 CITY OF MADISON ENGINEERING
 ENGINEERING SERVICE BLDG
 1602 EMIL ST
 PARCEL INCLUDES CITY OF MADISON
 BADGER RD MAINTENANCE FACILITY
 1501 AND 1509 W BADGER RD

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



CUT-IN CONNECTION HIGH CROSSING AT CITY VIEW - NORTH (WN28 W-4)

ISOLATION VALVES:
 - V-17 (16" ON HIGH CROSSING)
 - V-12 (16" ON HIGH CROSSING)
 - V-14 (10" ON LANCASTER)
 - V-15 (16" ON CITY VIEW)

NOTIFICATION
 - 3401, 3501 & 3511 LANCASTER DR
 - 5314 HIGH CROSSING BLVD
 - WATER UTILITY STAFF, SEE NOTE

CUT & CAP EX. MAIN HIGH CROSSING AT CITY VIEW - SOUTH (WN30 W-4)

ISOLATION VALVES:
 - V-12 (16" ON HIGH CROSSING)
 - V-15 (16" ON CITY VIEW)
 - V-17 (16" ON HIGH CROSSING)
 - NEW 16" (LANCASTER AT HIGH CROSSING)

NOTIFICATION
 - 3401, 3501 & 3511 LANCASTER DR
 - 5314 HIGH CROSSING BLVD
 - WATER UTILITY STAFF, SEE NOTE

CUT-IN CONNECTION LANCASTER AT HIGH CROSSING (WN29 W-4)

ISOLATION VALVES:
 - SV-21 (8" SERVICE)
 - V-14 (10" ON LANCASTER)

NOTIFICATION
 - 3401, 3501 & 3511 LANCASTER DR
 - 5314 HIGH CROSSING BLVD

NOTE FOR WN28 AND WN30:

NOTIFY THE FOLLOWING WATER UTILITY STAFF A MINIMUM OF (2) WORKING DAYS PRIOR TO PERFORMING THE CUT-IN AND CUT-OFF WN28 AND WN30 OPERATIONS:

- KELLY MIESS, PROJECT MANAGER 261-9640
- JOE DEMORETT, WATER SUPPLY MANAGER 267-4902 (OFFICE) OR 658-5374 (CELL)
- JJ LARSON, MAINTENANCE SUPERVISOR 266-4702 (OFFICE) OR 438-8915 (CELL)
- TAMMY BUSS, CONSTRUCTION SUPERVISOR 261-9835 (OFFICE) OR 575-7658 (CELL)

WN28 AND WN30 OPERATIONS MUST BE PERFORMED ONLY ON A SATURDAY OR A SUNDAY AND BE LIMITED TO SIX HOURS DURING WHICH ISOLATION VALVES ARE CLOSED. SEE SPECIAL PROVISIONS FOR MORE INFORMATION

DISCLAIMER NOTE:
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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 NOTIFICATION INFORMATION.

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

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

- | | |
|-----------------------|-----------------------------------|
| 14-FT - 4-IN PIPE | 4 - 4-IN 90° BEND |
| 170-FT - 6-IN PIPE | 4 - 6-IN 90° BEND |
| 1344-FT - 8-IN PIPE | 4 - 8-IN 90° BEND |
| 864-FT - 16-IN PIPE | |
| 2631-FT - POLYWRAP | 1 - 6-IN MJ PLUG |
| | 1 - 8-IN MJ PLUG |
| | 1 - 10-IN MJ PLUG |
| | 1 - 16-IN MJ PLUG |
| 1 - 4-IN VALVE & BOX | 1 - 8-IN MJ CAP |
| 5 - 6-IN VALVE & BOX | |
| 11 - 8-IN VALVE & BOX | 6 - 5-IN HYDRANT |
| 2 - 16-IN VALVE & BOX | |
| 1 - 8-IN X 4-IN TEE | 64-FT - 2-IN STYROFOAM INSULATION |
| 7 - 8-IN X 6-IN TEE | |
| 3 - 8-IN X 8-IN TEE | 1-IN COPPER (AS R'QD) |
| 2 - 16-IN X 6-IN TEE | 1.5-IN COPPER (AS R'QD) |
| 1 - 16-IN X 8-IN TEE | 2-IN COPPER (AS R'QD) |
| 1 - 16-IN X 16-IN TEE | |

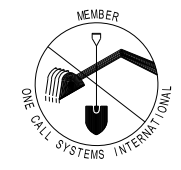
MATERIALS SUPPLIED BY CITY:

- 1 - 8-IN X 8-IN TAPPING SLEEVE & VALVE

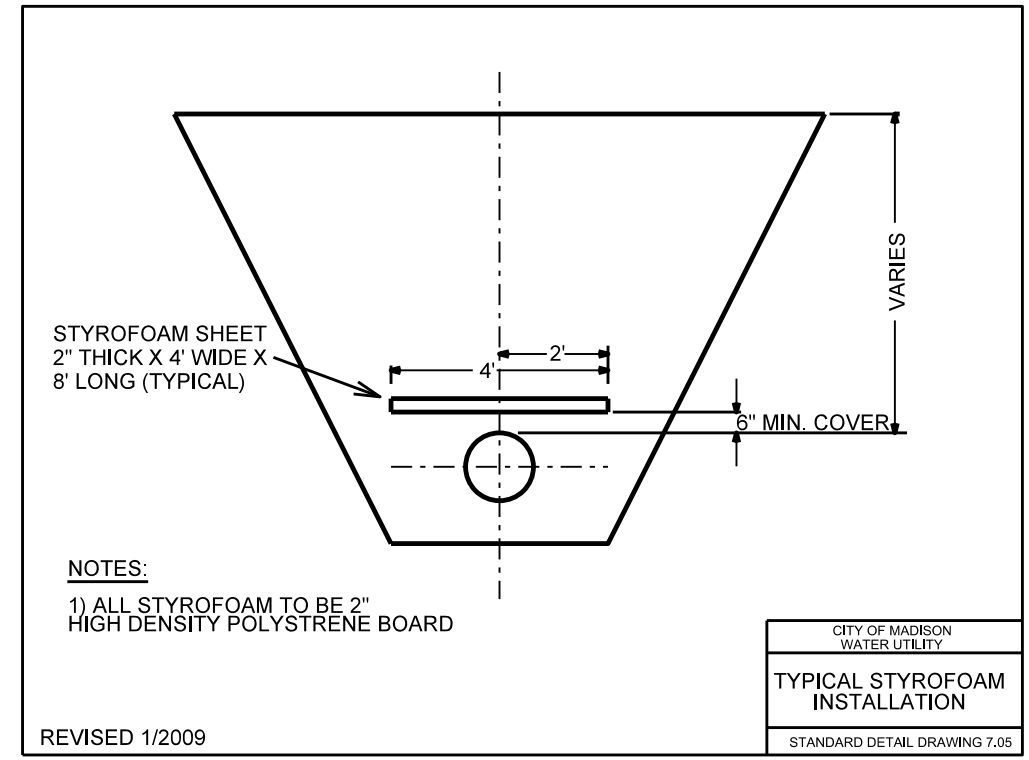
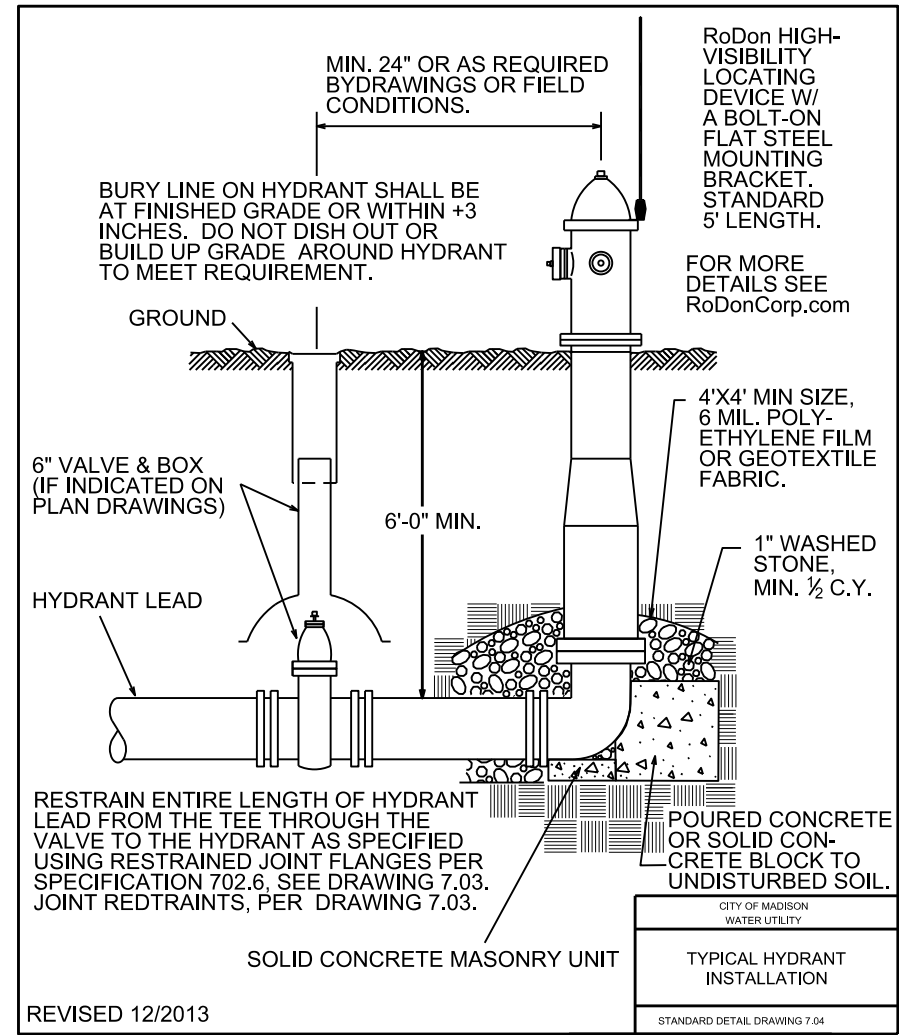
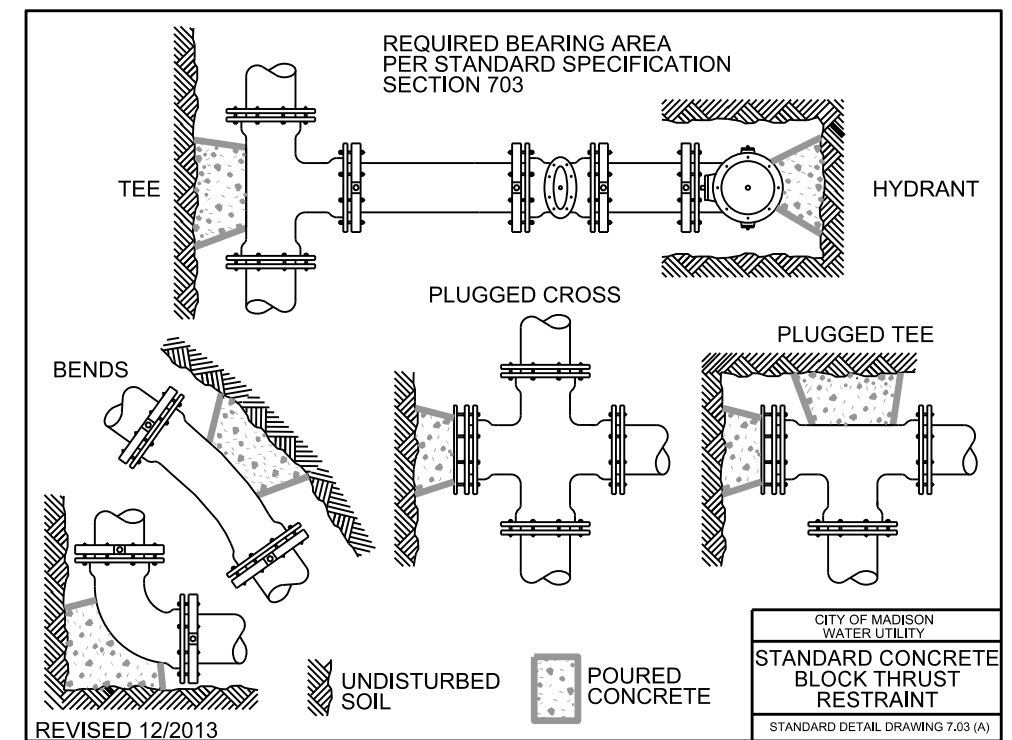
REUSED MATERIALS

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.



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

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

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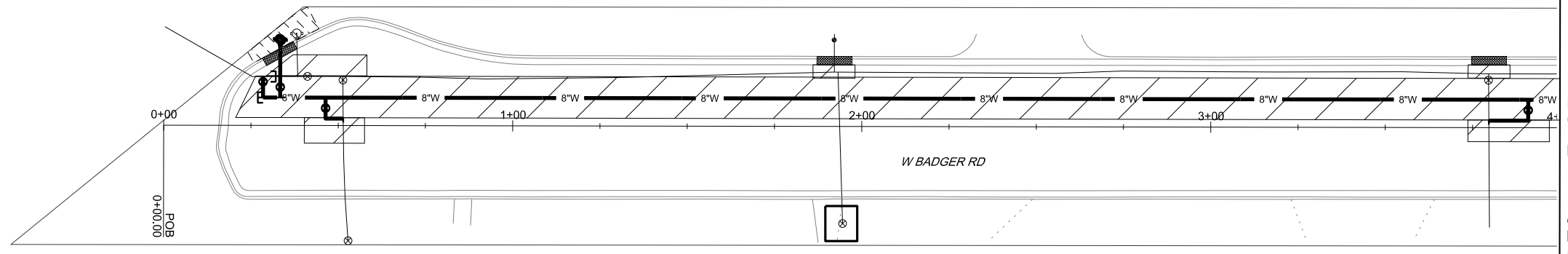
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0709-341-0085-4 UNION PACIFIC RAILROAD CO 2162 FISH HATCHERY RD

0709-341-0090-3 VITA-PLUS CORPORATION 1508 W BADGER RD

0709-344-0101-2 CITY OF MADISON ENGINEERING ENGINEERING SERVICE BLDG 1602 EMIL ST PARCEL INCLUDES CITY OF MADISON BADGER RD MAINTENANCE FACILITY 1501 AND 1509 W BADGER RD

0709-344-0101-2 CITY OF MADISON ENGINEERING ENGINEERING SERVICE BLDG 1602 EMIL ST PARCEL INCLUDES CITY OF MADISON BADGER RD MAINTENANCE FACILITY 1501 AND 1509 W BADGER RD



	UTILITY TRENCH PATCH TYPE III		DRIVEWAY REPAIR
	CURB & GUTTER REPAIR		LANDSCAPE RESTORATION*
	SIDEWALK REPAIR		

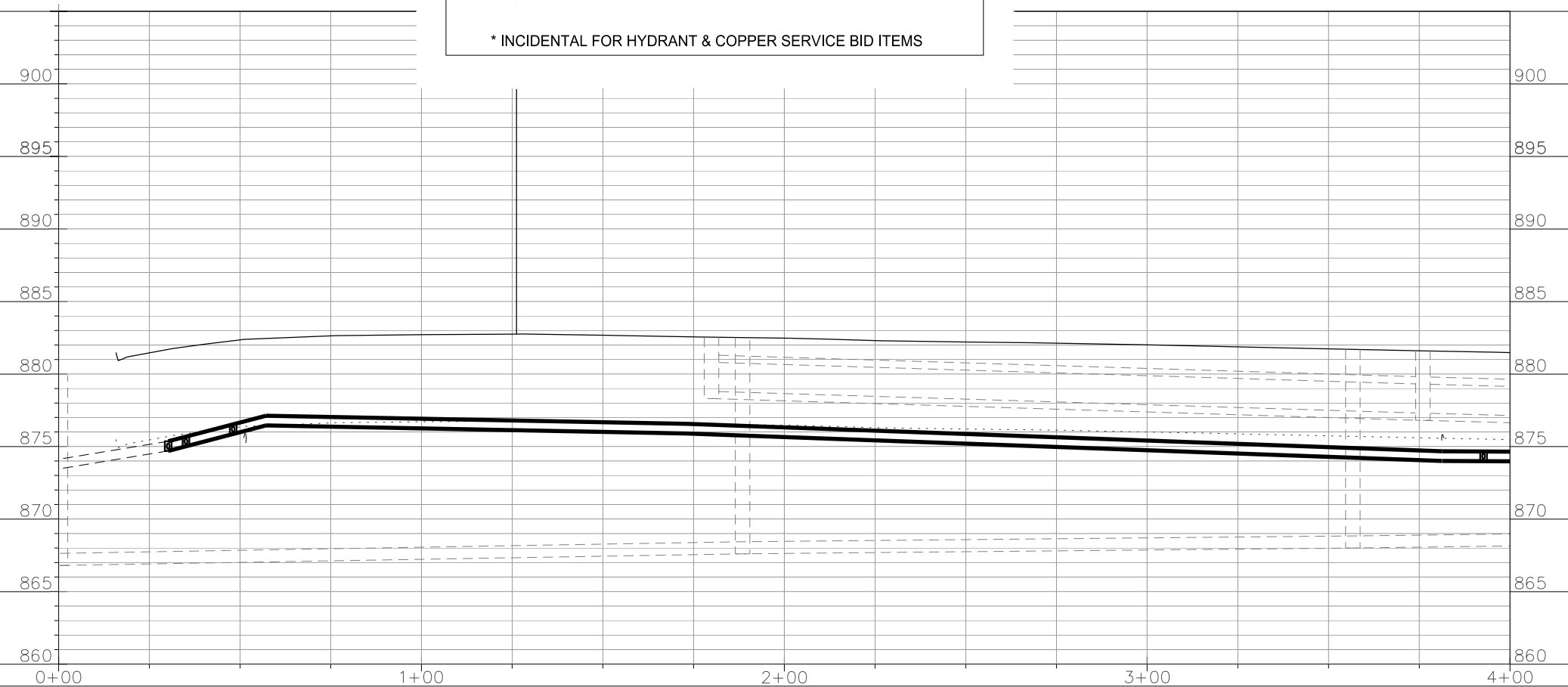
* INCIDENTAL FOR HYDRANT & COPPER SERVICE BID ITEMS

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

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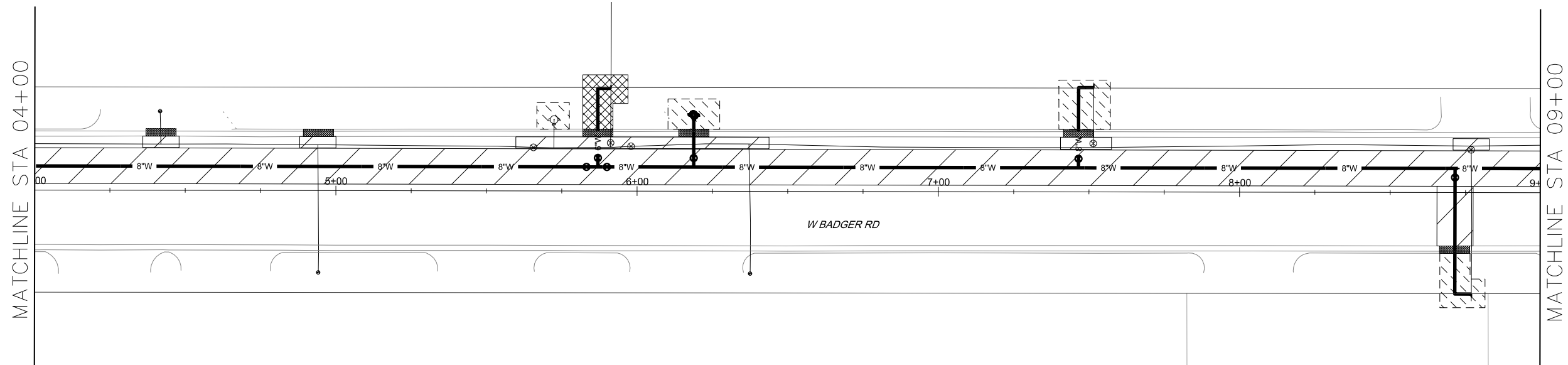
0709-341-0090-3
VITA-PLUS CORPORATION
1508 W BADGER RD

0709-341-0092-9
MADISON UNITED HOSPITAL
LAUNDRY LTD
1310 W BADGER RD

W BADGER RD & LANCASTER DR WATER MAIN REPLACEMENT; PROJECT NO. 53W1709 SHEET NO. R-2

RESTORATION PLAN

W BADGER RD CITY OF MADISON
PM: DENNIS CAWLEY DESIGNER: KBM



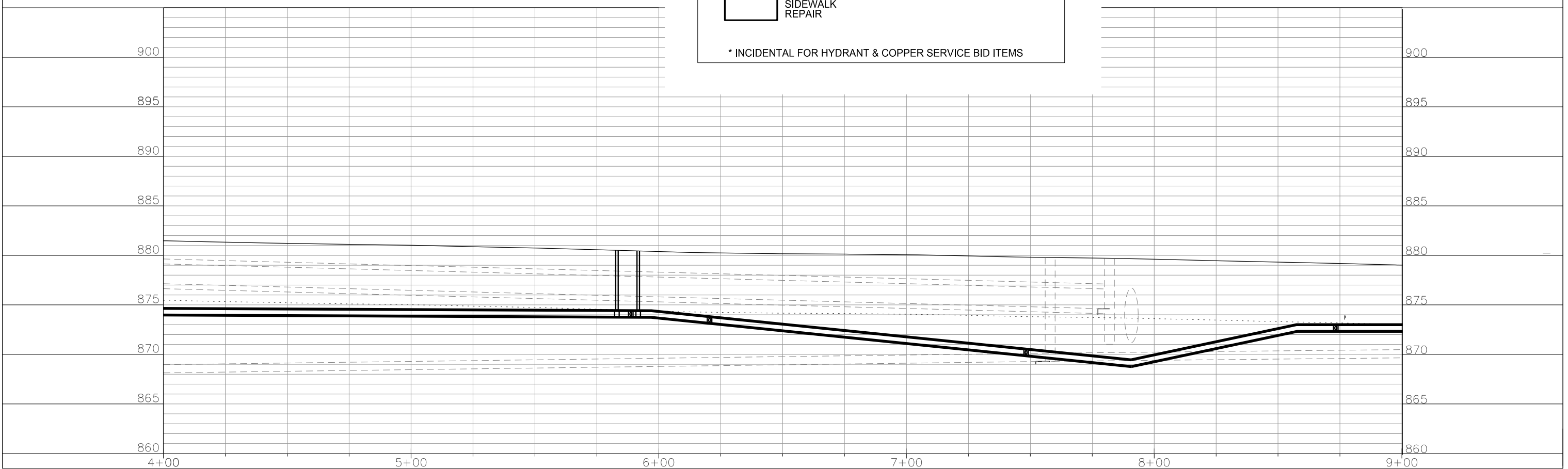
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0709-344-0117-9
ROADSTER MADISON LLC
1401 W BADGER RD

0709-344-0115-3
GRAYBAR ELECTRIC COMPANY
1301 W BADGER RD

	UTILITY TRENCH PATCH TYPE III		DRIVEWAY REPAIR
	CURB & GUTTER REPAIR		LANDSCAPE RESTORATION*
	SIDEWALK REPAIR		

* INCIDENTAL FOR HYDRANT & COPPER SERVICE BID ITEMS



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

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

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TOLL FREE
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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
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0709-341-0092-9
MADISON UNITED HOSPITAL
LAUNDRY LTD
1310 W BADGER RD

0709-341-0093-7
DANE COUNTY HIGHWAY &
TRANS - HIGHWAY GARAGE
2302 FISH HATCHERY RD

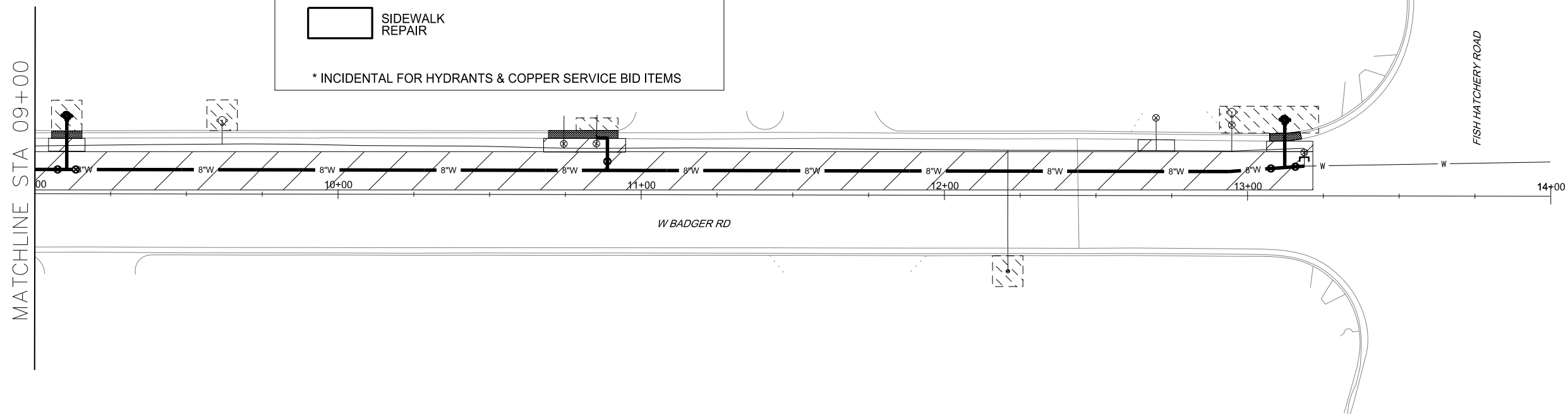
W BADGER RD & LANCASTER DR WATER MAIN REPLACEMENT; PROJECT NO. 53W1709 SHEET NO. R-3

RESTORATION PLAN

W BADGER RD CITY OF MADISON
PM: DENNIS CAWLEY DESIGNER: KBM

	UTILITY TRENCH PATCH TYPE III		DRIVEWAY REPAIR
	CURB & GUTTER REPAIR		LANDSCAPE RESTORATION*
	SIDEWALK REPAIR		

* INCIDENTAL FOR HYDRANTS & COPPER SERVICE BID ITEMS

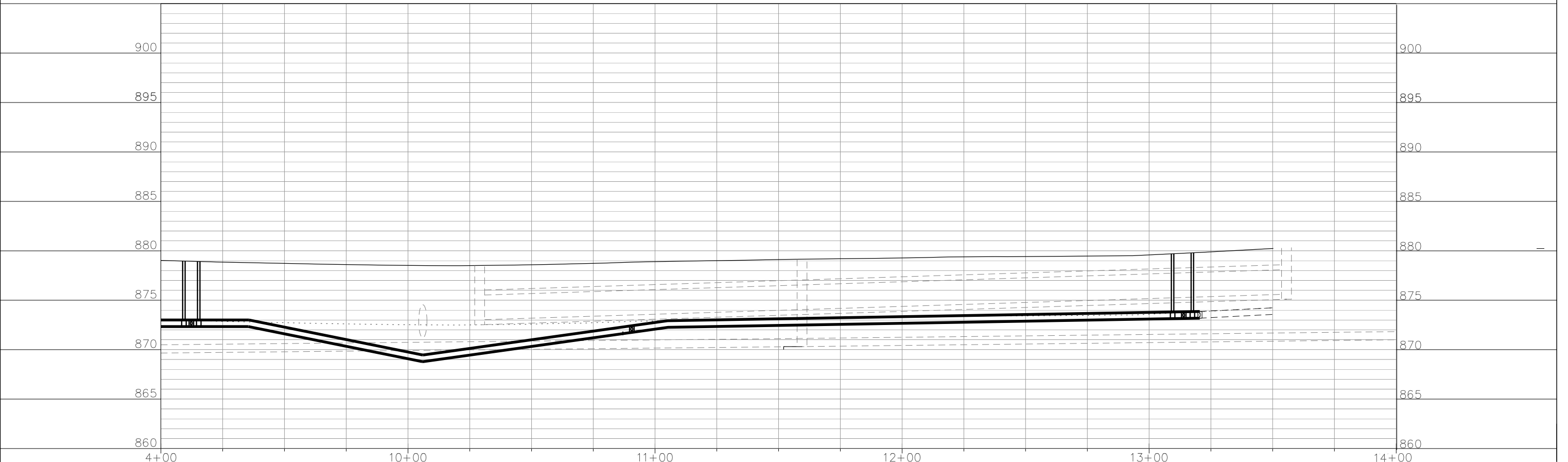


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0709-344-0115-3
GRAYBAR ELECTRIC CO
1301 W BADGER RD

0709-344-0113-7
VP PROPERTIES I LLC
2514 FISH HATCHERY RD

0709-344-0114-5
VP PROPERTIES I LLC
2502 FISH HATCHERY RD



PLOT SCALE: _____

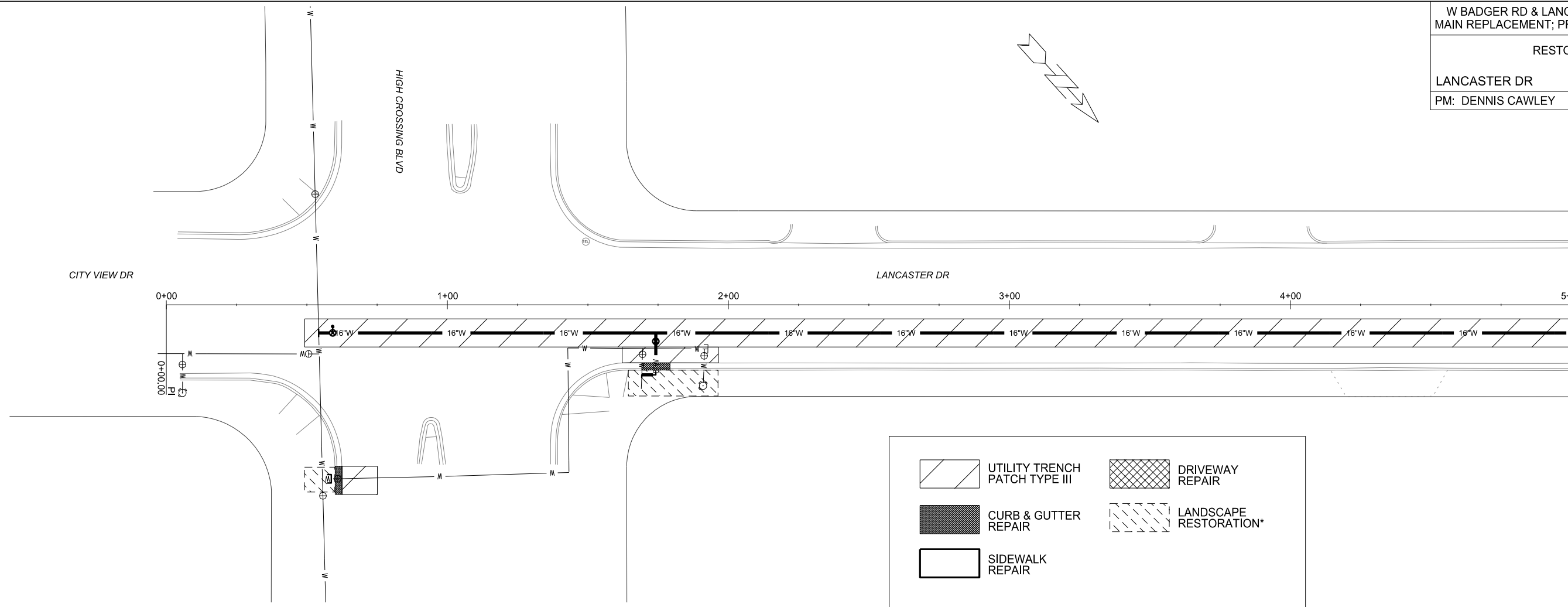
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

RESTORATION PLAN

LANCASTER DR CITY OF MADISON
 PM: DENNIS CAWLEY DESIGNER: KBM



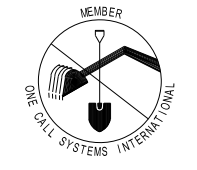
	UTILITY TRENCH PATCH TYPE III		DRIVEWAY REPAIR
	CURB & GUTTER REPAIR		LANDSCAPE RESTORATION*
	SIDEWALK REPAIR		

* INCIDENTAL FOR HYDRANT & COPPER SERVICE BID ITEMS

MATCHLINE STA 5+00

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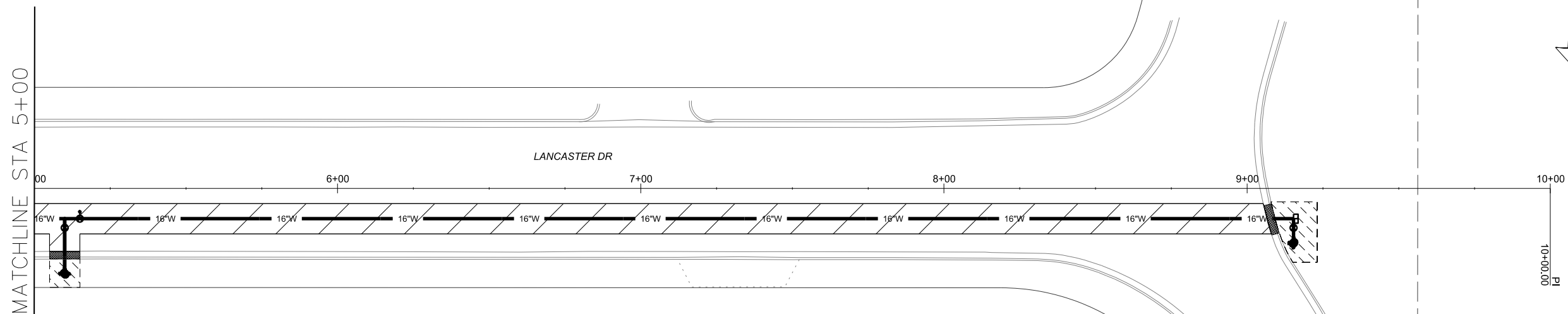
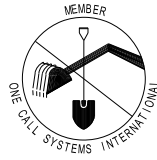
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PLOT SCALE: _____
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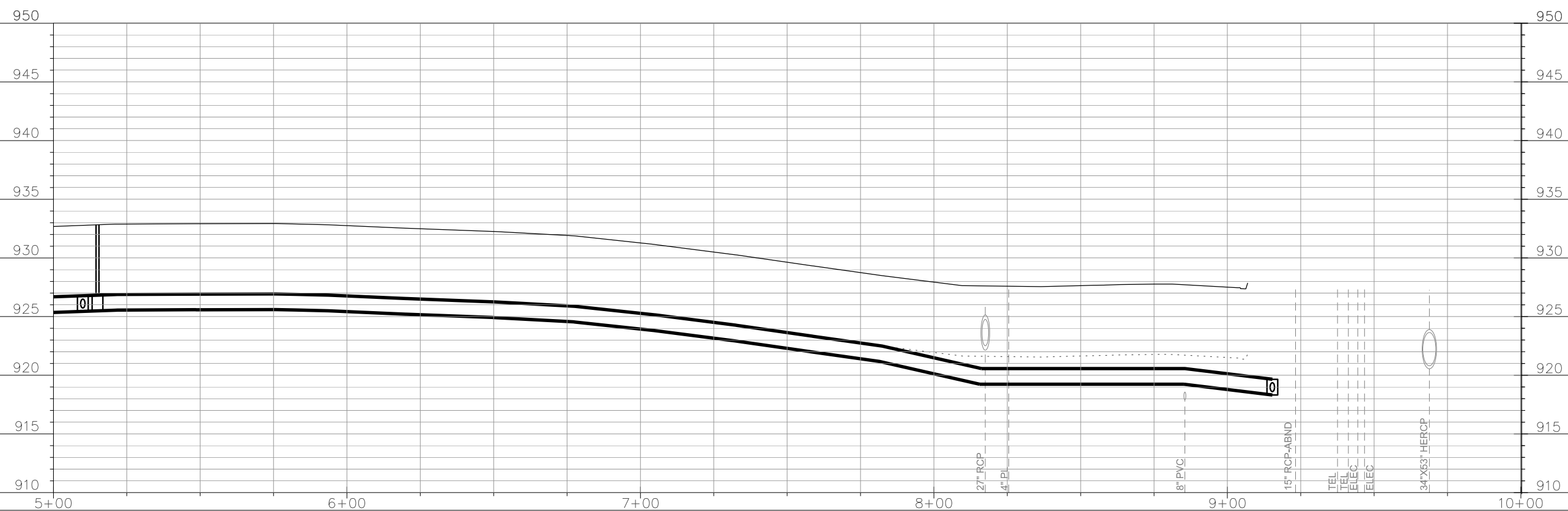
WIS. STATUTE 182.0175 (1974)
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	UTILITY TRENCH PATCH TYPE III		DRIVEWAY REPAIR
	CURB & GUTTER REPAIR		LANDSCAPE RESTORATION*
	SIDEWALK REPAIR		

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