

Madison, Wisconsin

CITY OF MADISON

MADISON WATER UTILITY DEPARTMENT OF PUBLIC WORKS PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

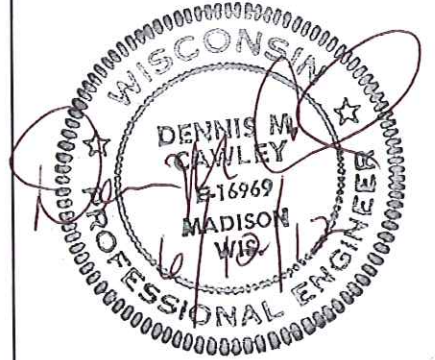
JUNE 12, 2012

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT WATER DESIGN
APPROVED BY:

[Signature]
Principal Engineer Date

WATER DESIGNED BY:

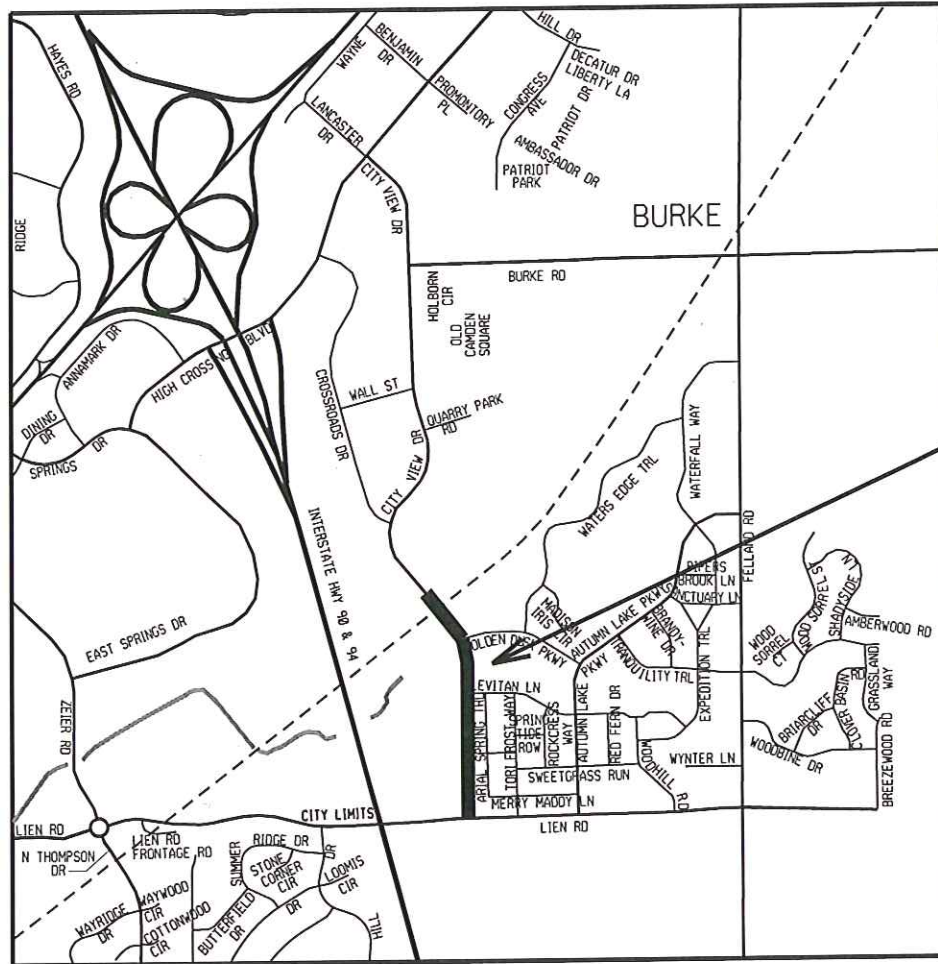


INDEX OF SHEETS

SHEET NO. 0	TITLE SHEET
SHEET NO. A1	CITY VIEW DRIVE ALIGNMENT SHEET
SHEET NO. W-1 TO W-5	PLAN AND PROFILE SHEETS
SHEET NO. W-6	WATER IMPACT SHEET
SHEET NO. D-1 TO D-2	MATERIALS, DETAILS, AND ACCESSWAY SHEETS
SHEET NO. EC-1 TO EC-5	EROSION CONTROL SHEETS
SHEET NO. X-1 TO X-8	CROSS SECTION SHEETS

CITY VIEW DRIVE WATER MAIN INSTALLATION 2012

CITY PROJECT NO. 53W1453
CONTRACT NO. 6899



**CONSTRUCTION
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 — [Symbol] —
- COMBUSTIBLE FLUIDS — [Symbol] —



POE:
N = 502261.7876
E = 846768.2485

CURVE NO. 1:
PC - N = 501354.1292 PT - N = 501783.5754
PC - E = 847354.3248 PT - E = 847192.8958
RADIUS = 640.00
ARC LENGTH = 469.22

POB:
N = 499848.5120
E = 847344.9870

LIEN ROAD

CITY VIEW DRIVE

14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00

POB
13+40.12

PC
28+45.77

PT
33+14.98

POE
39+54.52

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

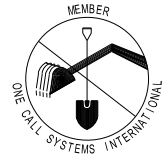


TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

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.



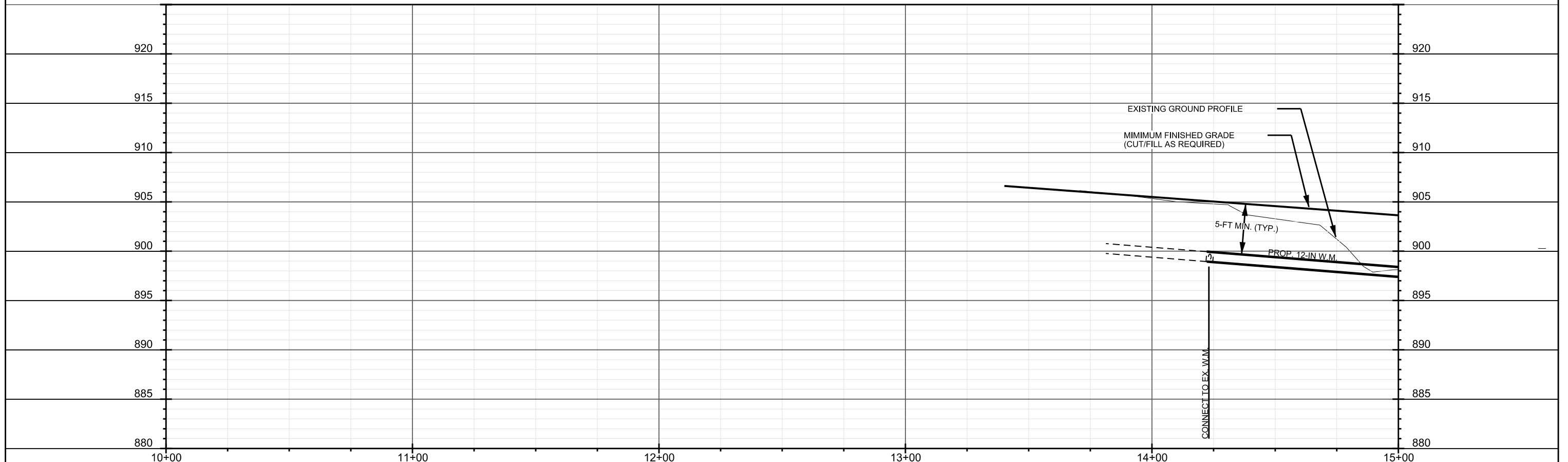
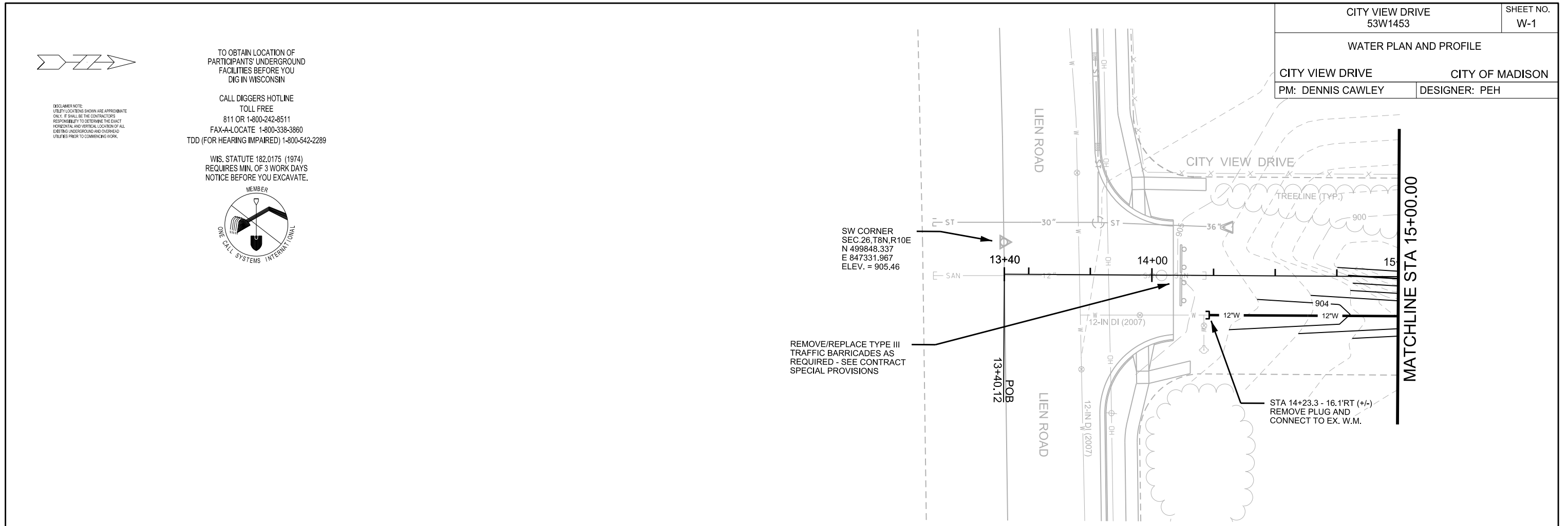
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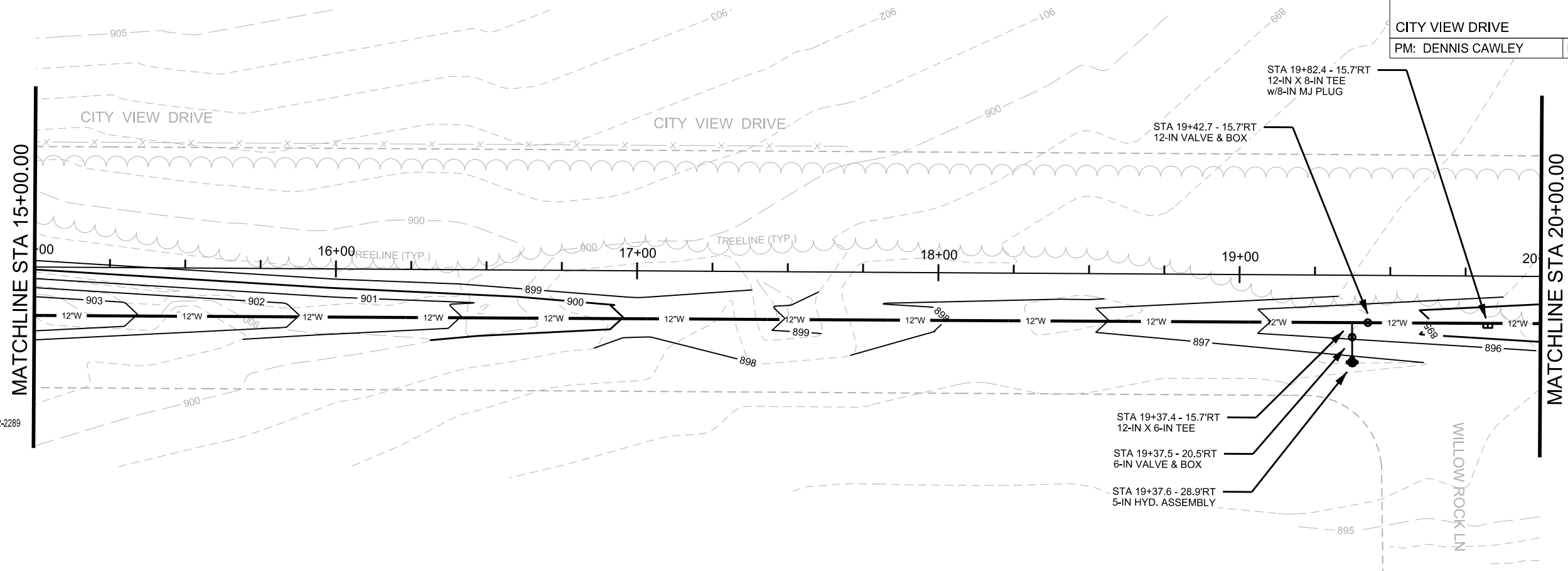
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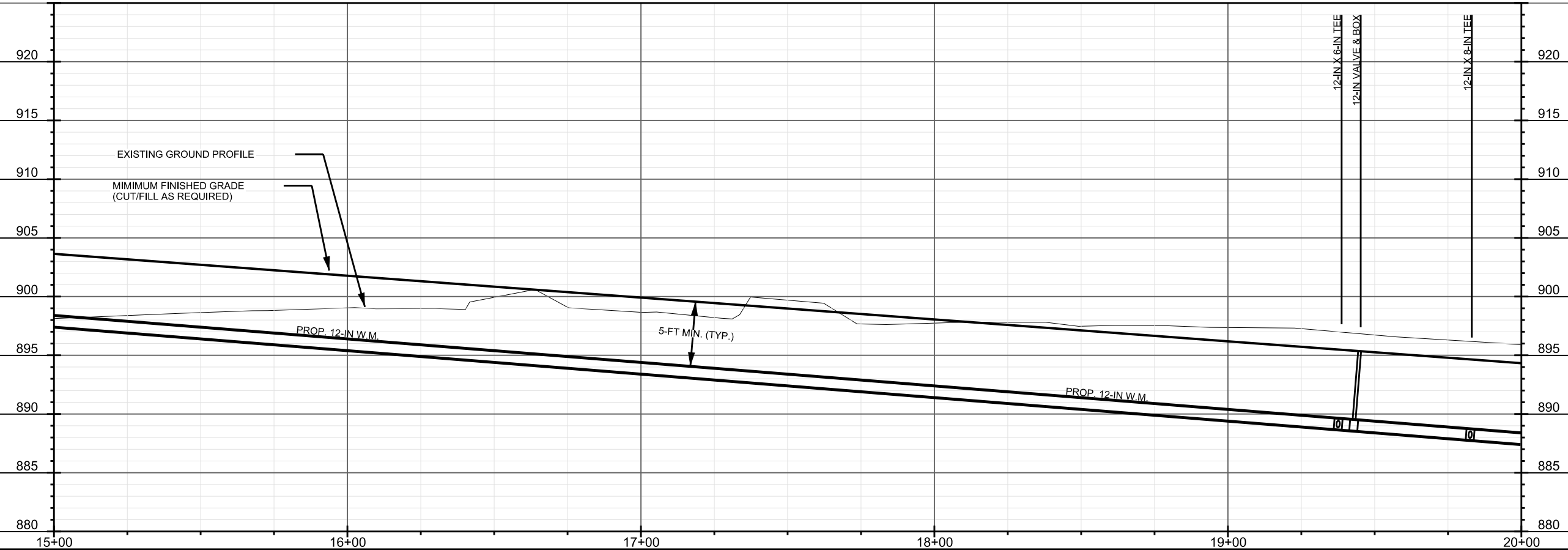


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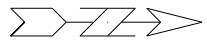
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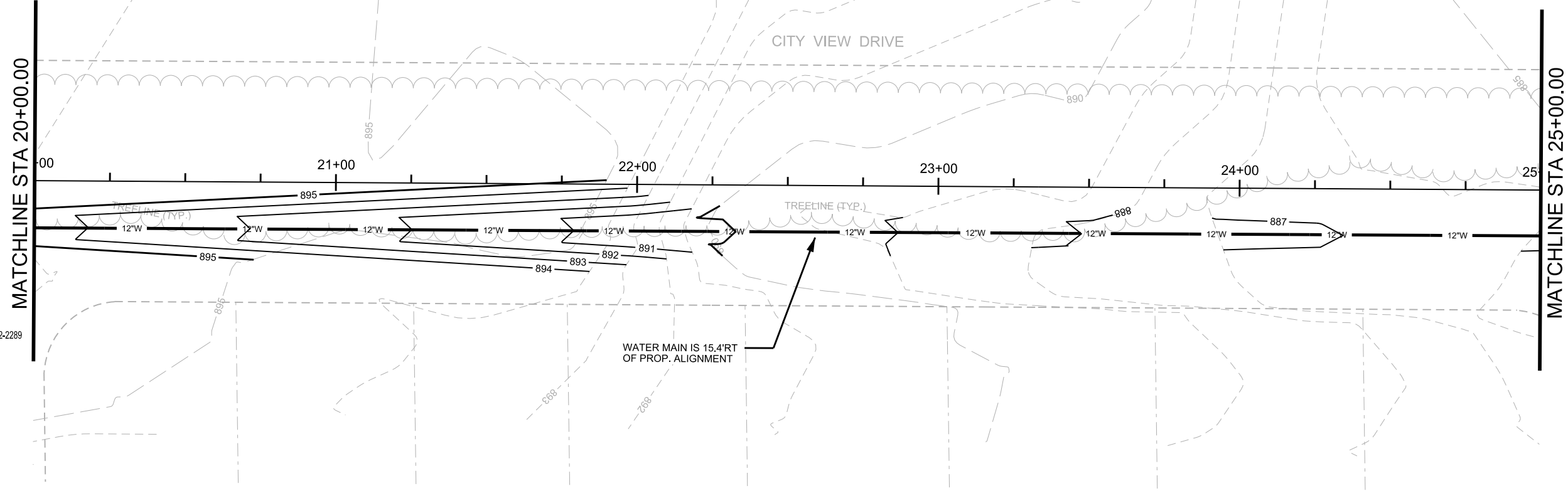


WATER PLAN AND PROFILE

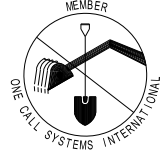
CITY VIEW DRIVE CITY OF MADISON
PM: DENNIS CAWLEY DESIGNER: PEH



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MATCHLINE STA 20+00.00

MATCHLINE STA 25+00.00

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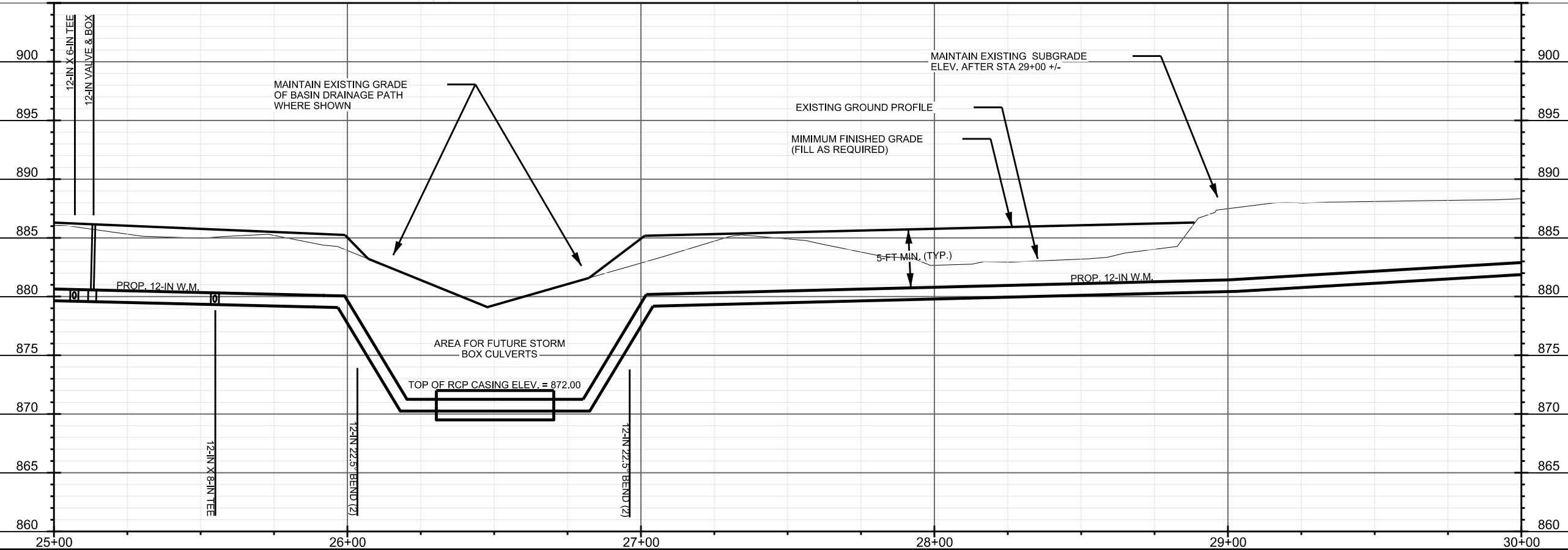
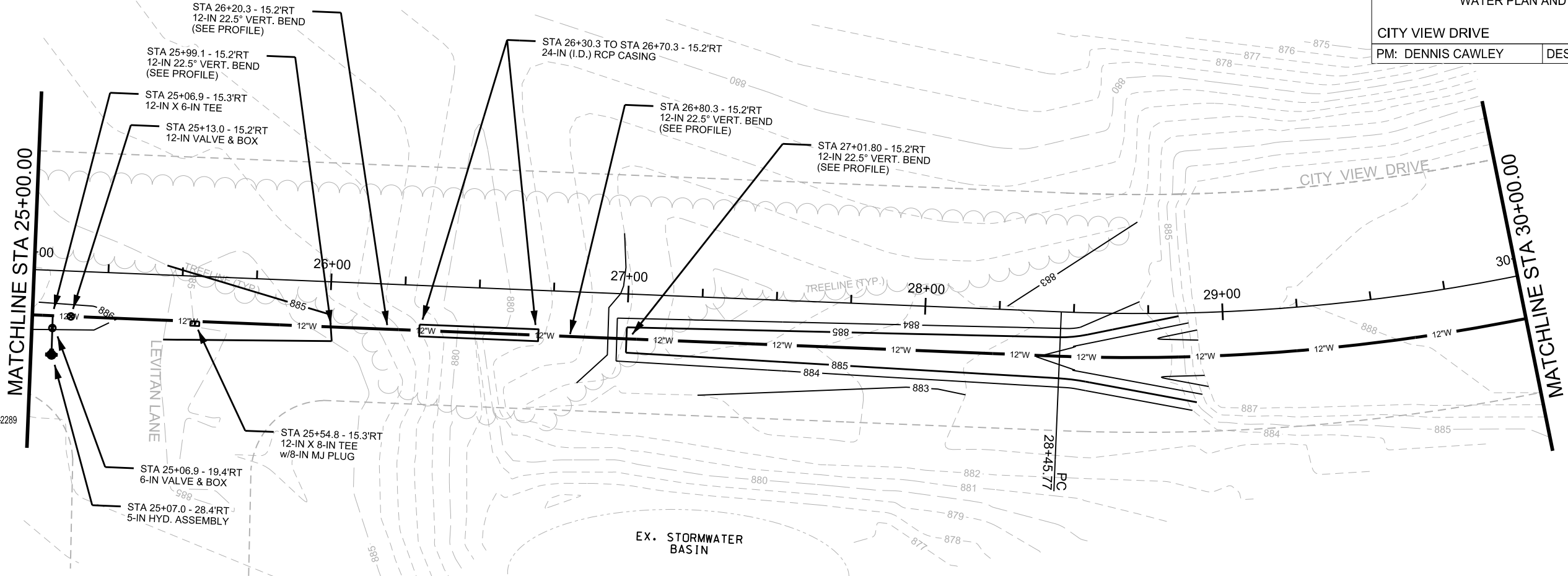
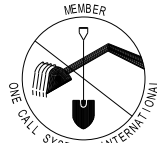
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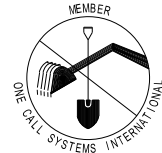
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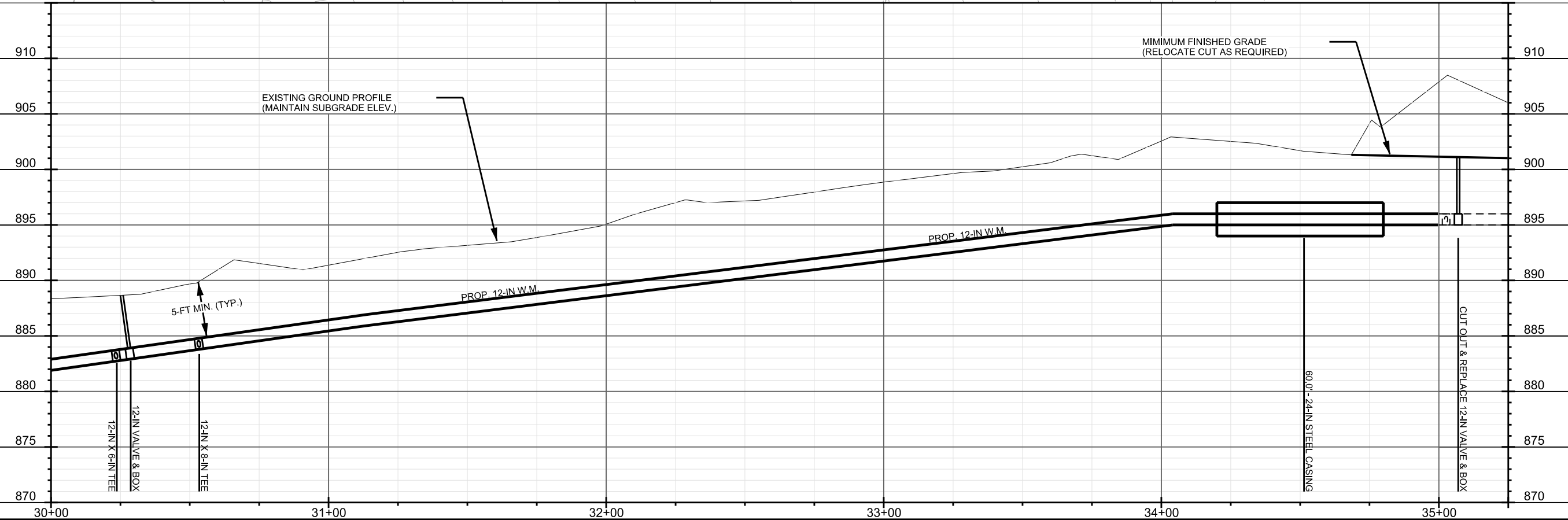
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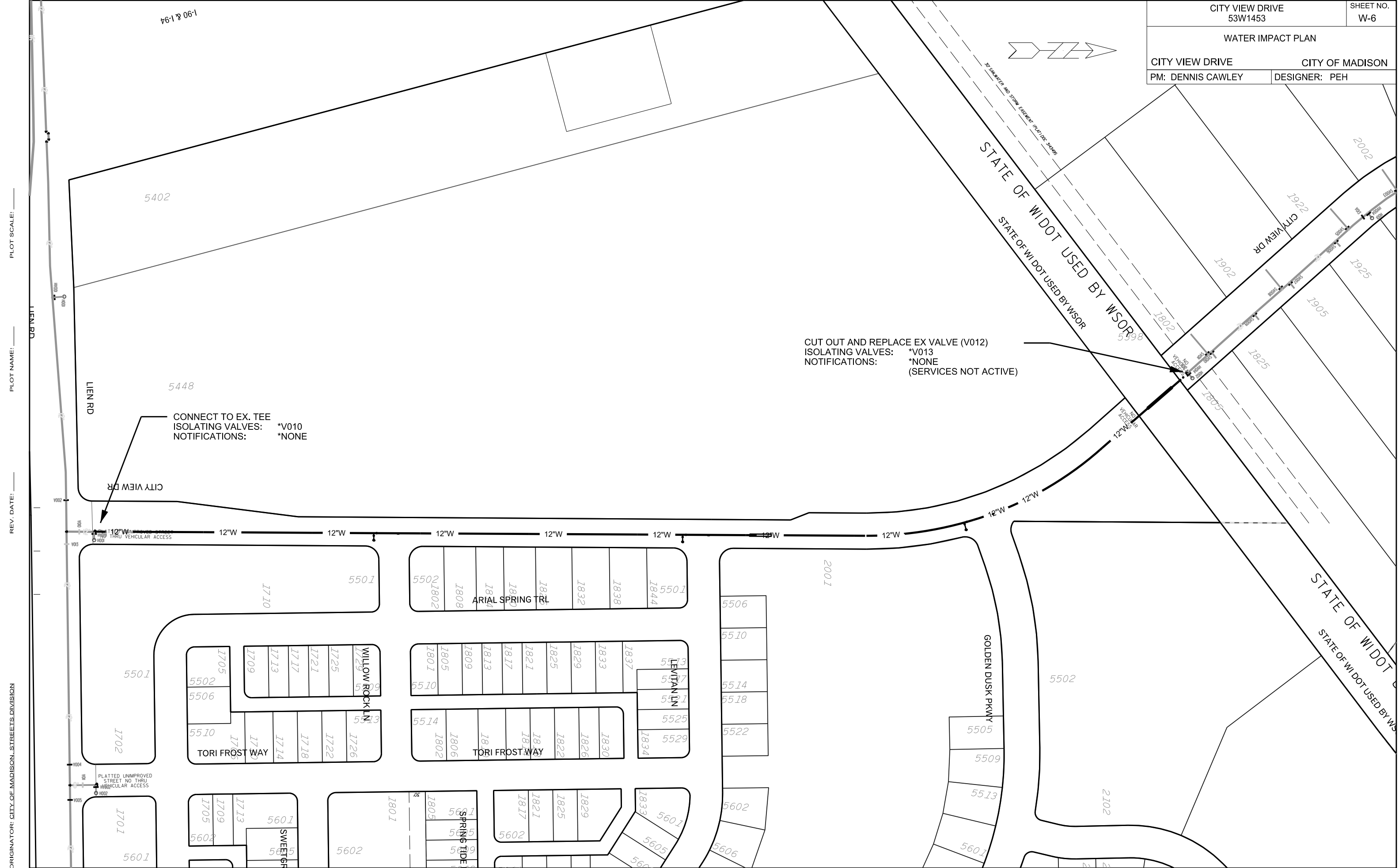
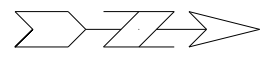


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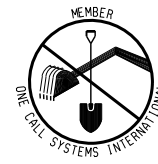
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CONSTRUCTION NOTES:

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.



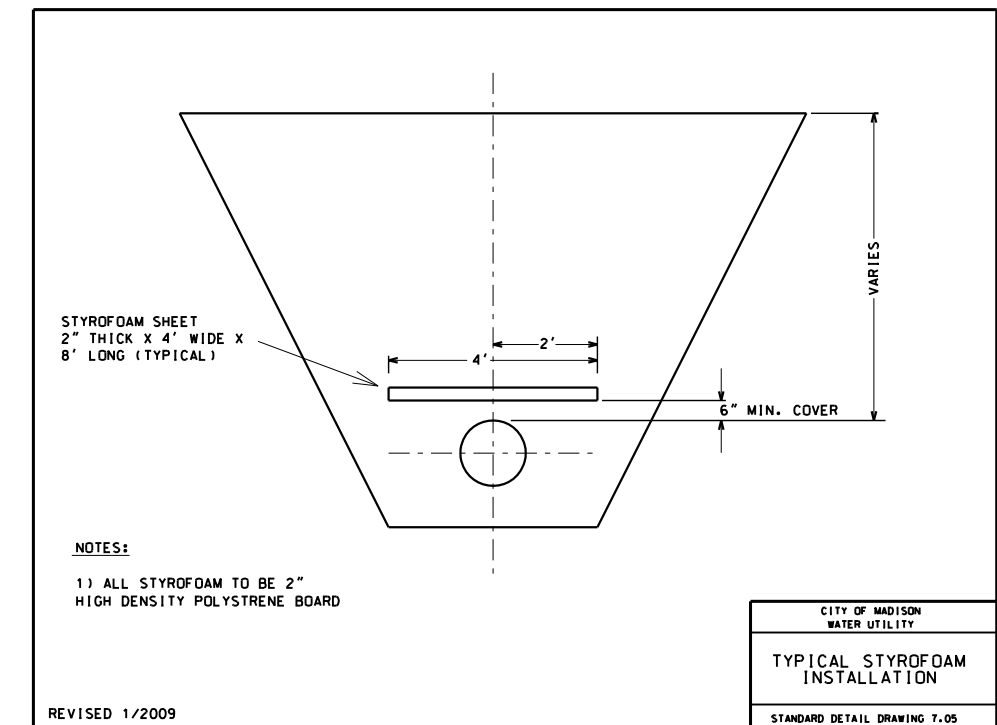
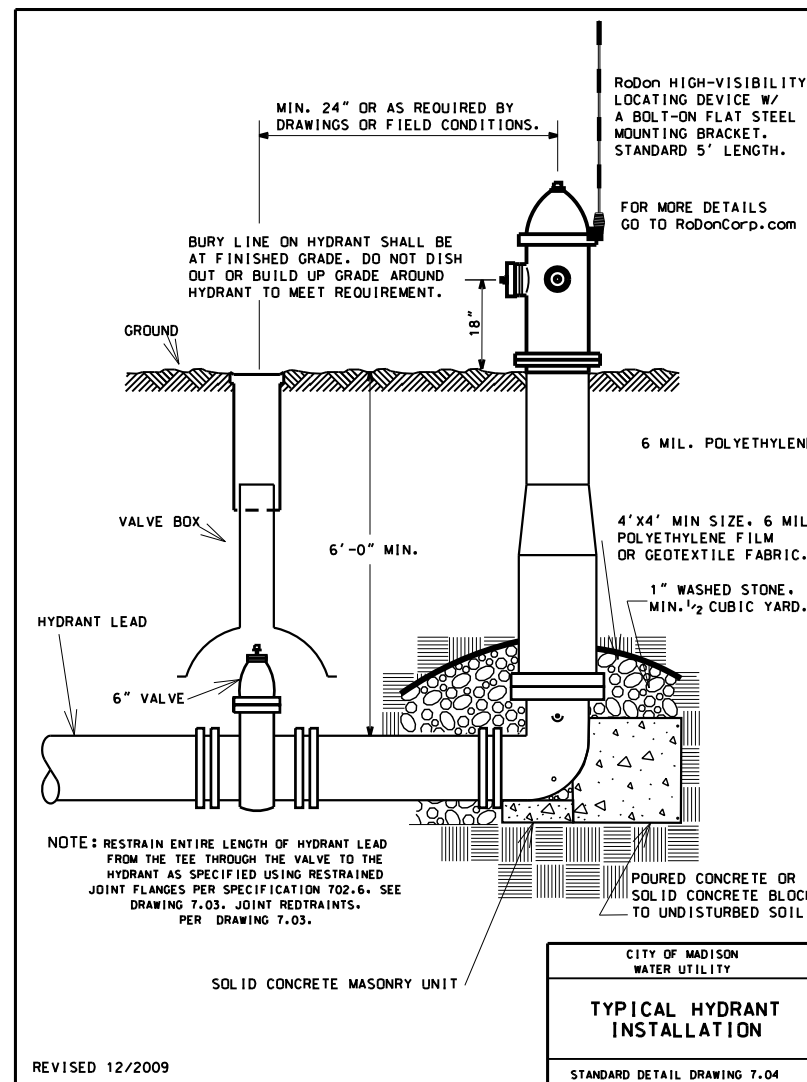
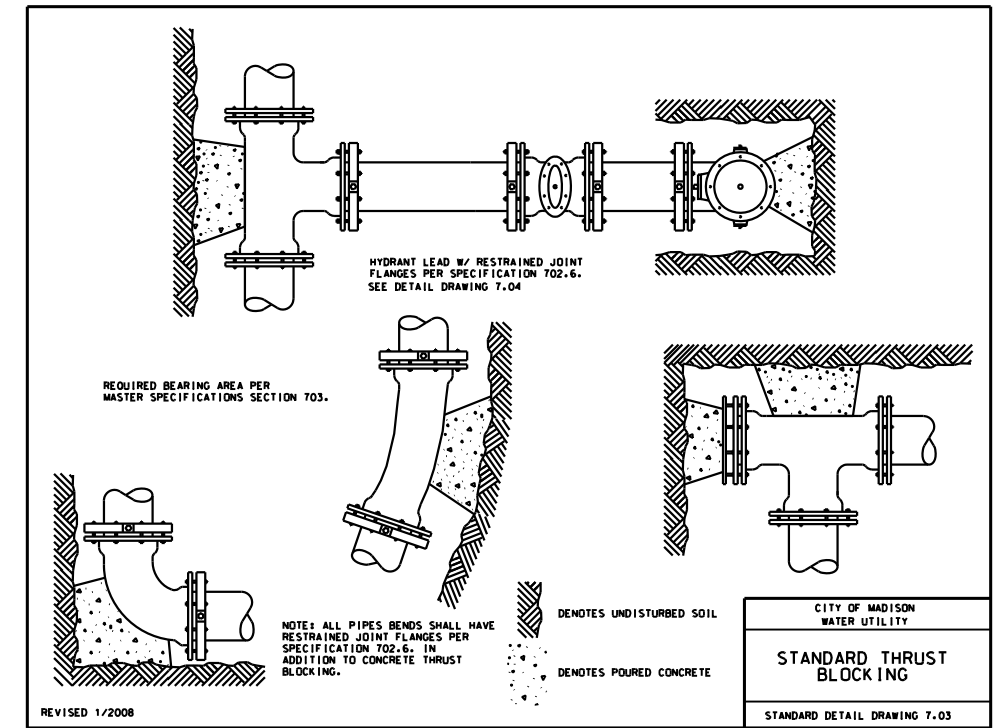
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ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

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

- 54-FT - 6-IN PIPE
- 2106-FT - 12-IN PIPE
- 2400-FT - POLYWRAP
- 3 - 5-IN HYDRANT
- 3 - 6-IN VALVE AND BOX
- 4 - 12-IN VALVE AND BOX
- 3 - 12-IN X 6-IN TEE
- 3 - 12-IN X 8-IN TEE
- 3 - 8-IN MJ PLUG
- 4- 12-IN 22.5° BEND
- 60-FT - 24-IN STEEL PIPE CASING
- 40-FT - 24-IN RCP PIPE CASING



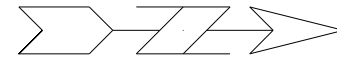
SITE ACCESSWAYS

CITY VIEW DRIVE

CITY OF MADISON

PM: DENNIS CAWLEY

DESIGNER: PEH



LOCATION OF ROCK TRACKING
PAD AS SHOWN ON EC-1

LIEN ROAD

CITY VIEW DRIVE ACCESSWAY

GOLDEN DUSK TRAIL ACCESSWAY

LIEN ROAD

AUTUMN LAKE PARKWAY ACCESSWAY

STATE OF WI

PLATTED UNIMPROVED STREET NO THRU VEHICULAR ACCESS

PLATTED UNIMPROVED STREET NO THRU VEHICULAR ACCESS

PLATTED UNIMPROVED STREET NO THRU VEHICULAR ACCESS

40' STORM DRAINAGE EASEMENT

ALTERNATE ALLOWED
ACCESS / TRACKING
PAD LOCATION

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL PLAN

CITY VIEW DRIVE CITY OF MADISON
PM: DENNIS CAWLEY DESIGNER: PEH



TO OBTAIN LOCATION OF
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DIG IN WISCONSIN

CALL DIGGERS HOTLINE

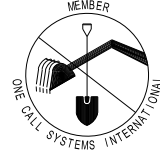
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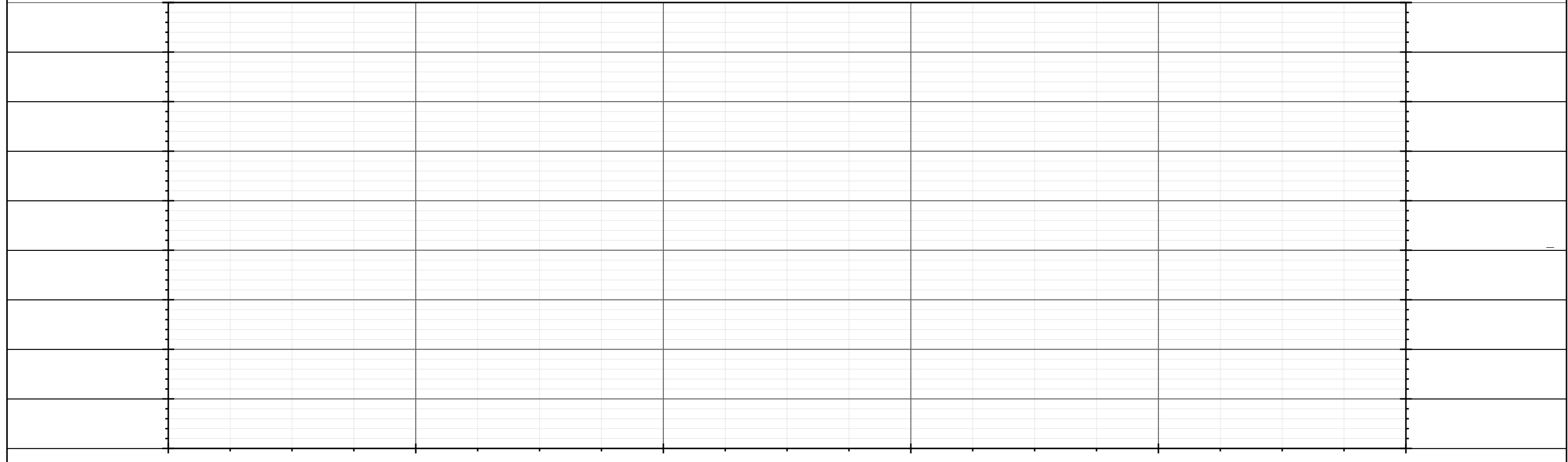
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INLET PROTECTION
TYPE C

LIEN ROAD

STRAW BALES PROTECTING STORM
STRUCTURE AE703-004

CITY VIEW DRIVE

TREELINE (TYP.)

MATCHLINE STA 15+00.00

ROCK TRACKING PAD FOR
CONSTRUCTION ENTRANCE

SW CORNER
SEC.26,T8N,R10E
N 499848.337
E 847331.967
ELEV. = 905.46

13+40

14+00

900

15

904

12"W

12"W

LIEN ROAD

12" IN DI (2007)

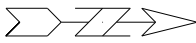
ALTERNATE ACCESS AND TRACKING
PAD ALLOWED AT AUTUMN LAKE
PARKWAY - SEE SHEET D-2

13+40.12
POB

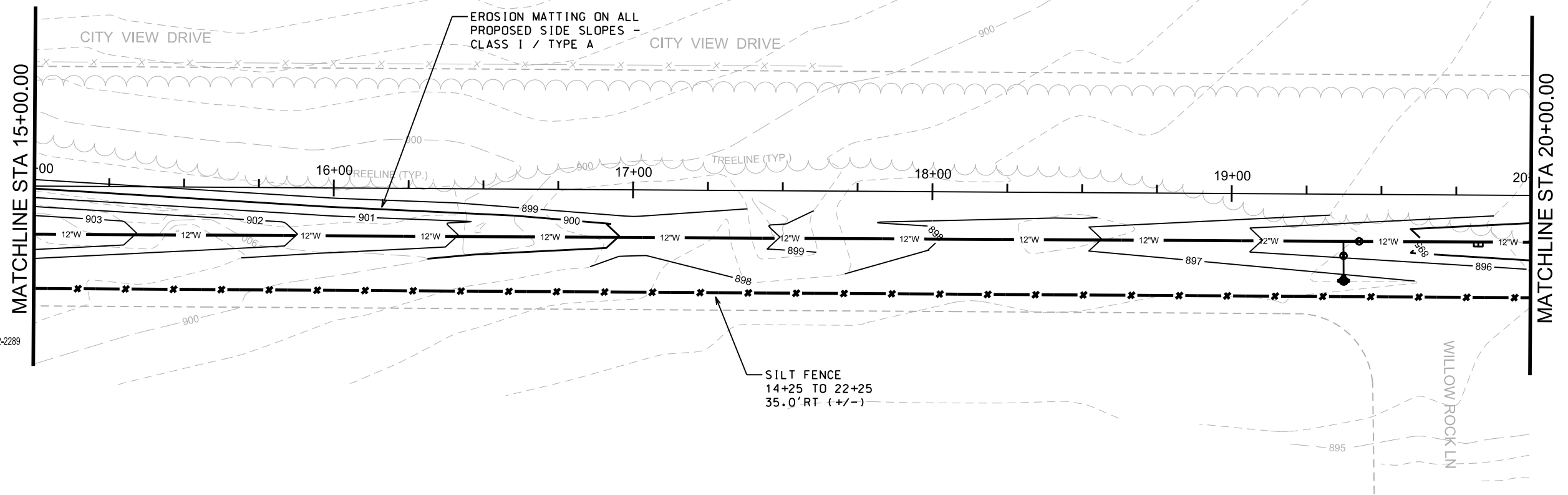
SILT FENCE
14+25 TO 22+25
35.0' RT (+/-)

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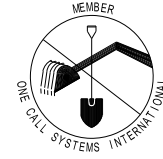
EROSION MATTING ON ALL
PROPOSED SIDE SLOPES -
CLASS I / TYPE A

SILT FENCE
14+25 TO 22+25
35.0' RT (+/-)

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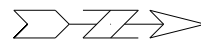
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920																				920	
915																					915
910																					910
905																					905
900																					900
895																					895
890																					890
885																					885
880																					880
15+00																					20+00

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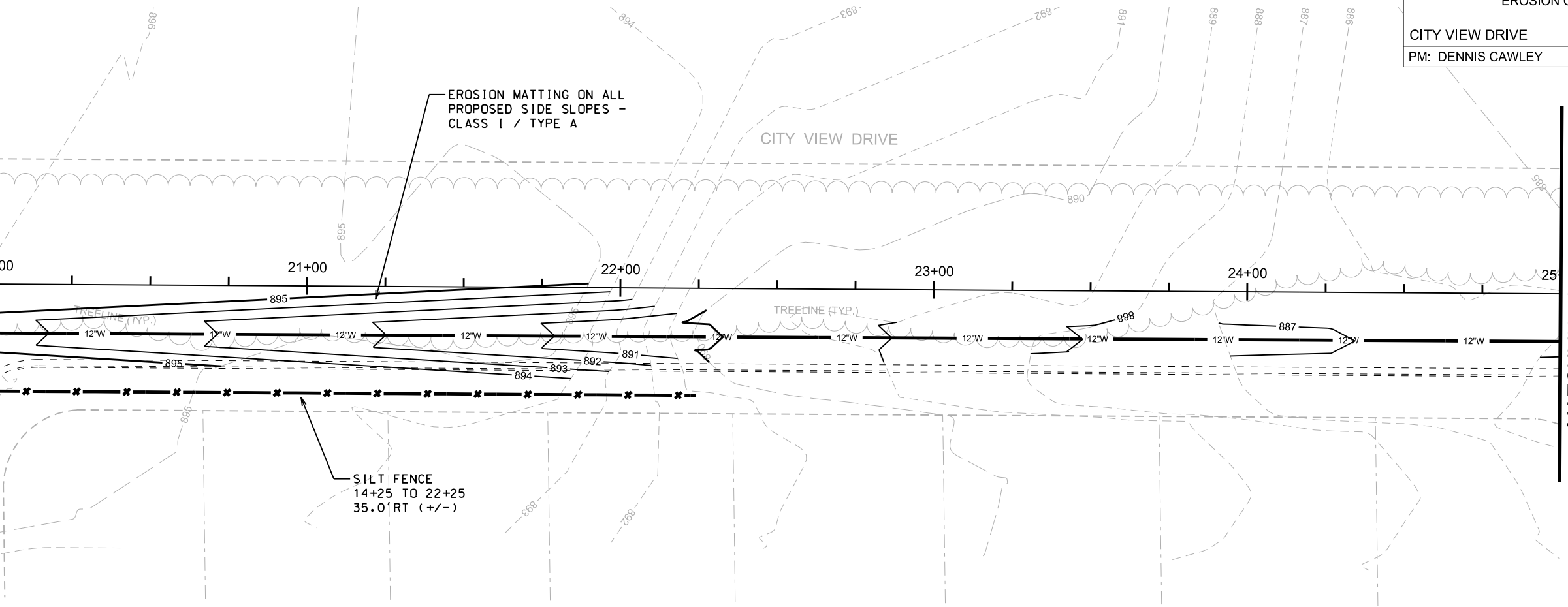


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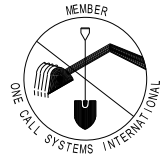


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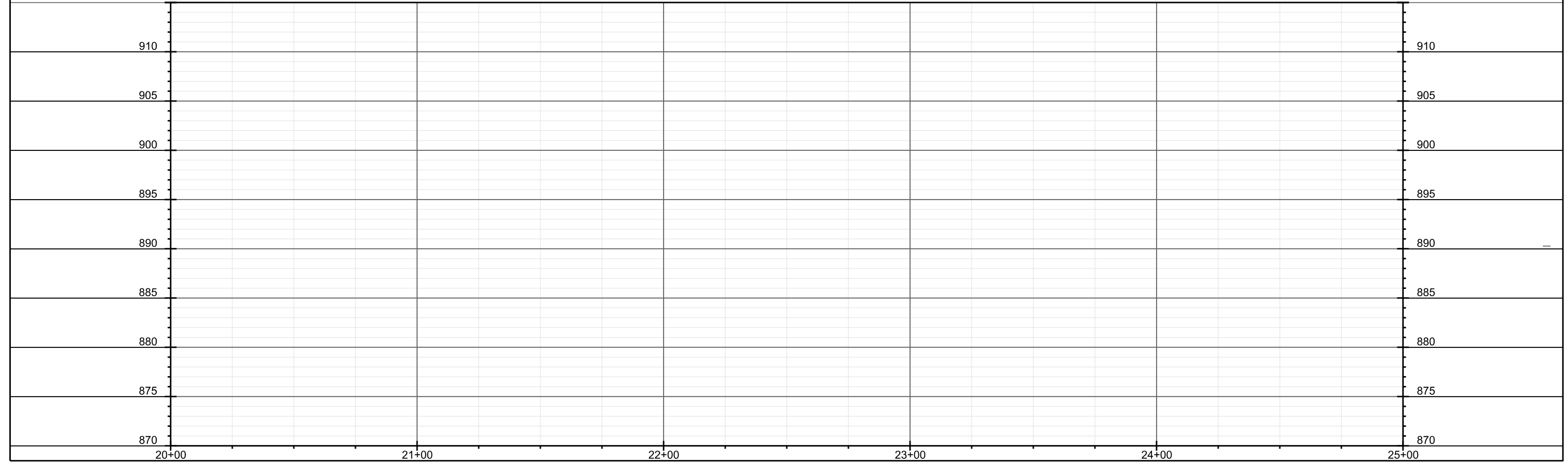
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14+25 TO 22+25
35.0' RT (+/-)

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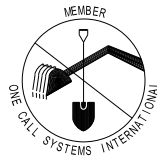


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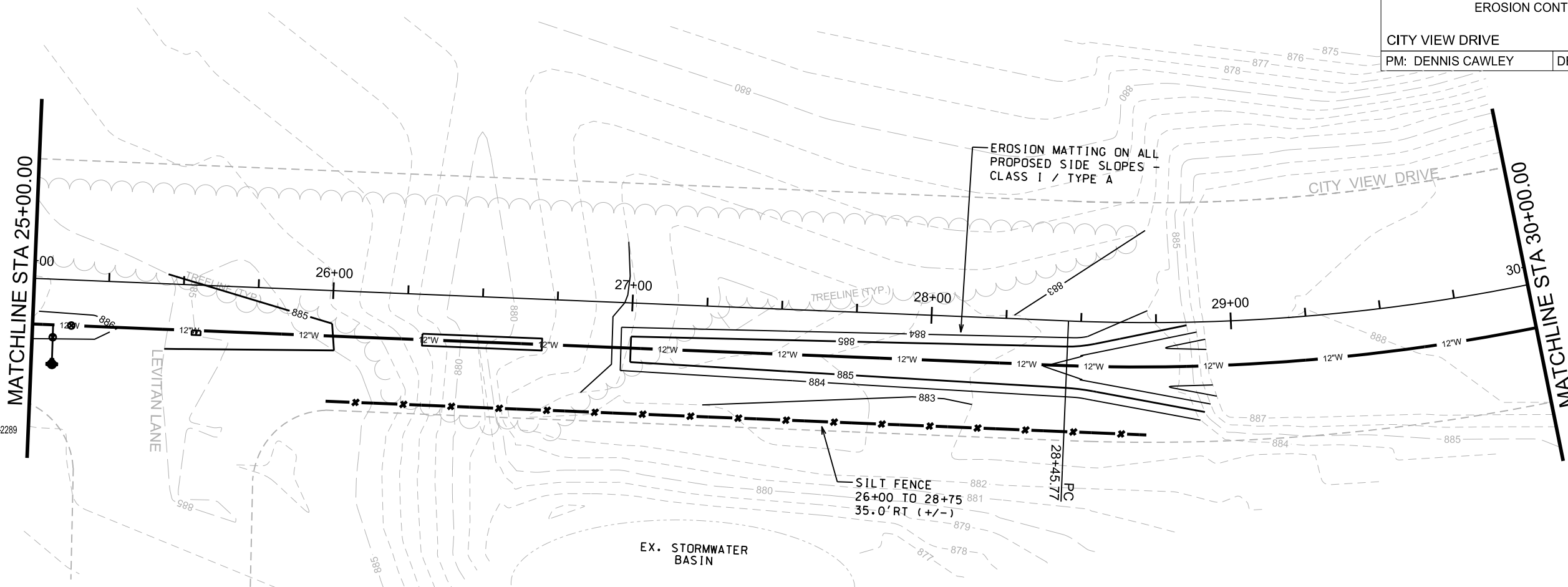
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MATCHLINE STA 30+00.00



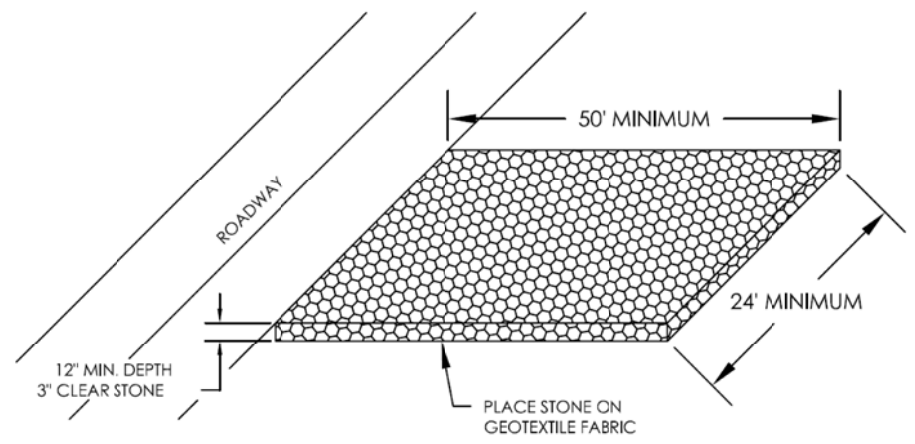
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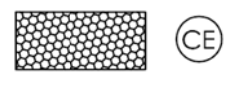
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

900										900	
895										895	
890										890	
885										885	
880										880	
875										875	
870										870	
865										865	
860										860	
	25+00		26+00		27+00		28+00		29+00		30+00



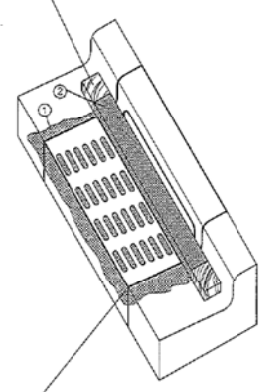
STONE CONSTRUCTION ENTRANCE



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.

WOOD 2X4 EXTENDS 8" BEYOND GRATE WIDTH ON BOTH SIDES. LENGTH = 52" FOR H--S INLETS, 94" FOR HH INLETS.



GENERAL NOTES:

CLEANING IS REQUIRED WHEN FABRIC HOLDS 1/2" OR MORE OF SEDIMENT OR WATER, OR AS DIRECTED BY THE CONSTRUCTION ENGINEER.

FABRIC SHALL BE REPLACED WHEN AN AREA UNDER THE GRATE HAS A TEAR 1" OR GREATER IN LENGTH, OR AT THE ENGINEERS DISCRETION.

THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE WISDOT EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

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.

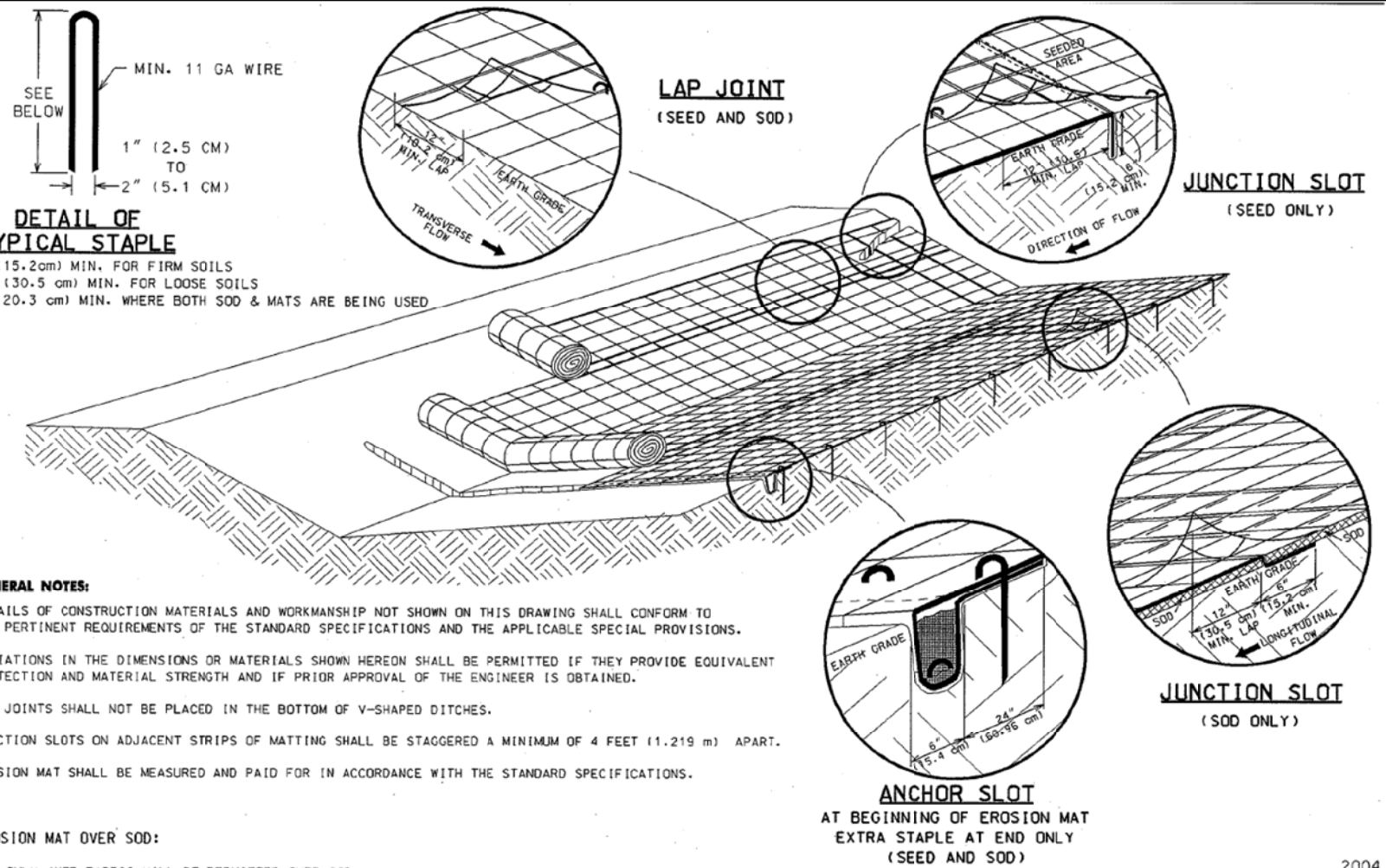
1. FABRIC SIZE SHALL BE 8" (MIN) GREATER ON ALL SIDES OF THE INLET COVER TO PROVIDE A HAND HOLD WHEN MAINTENANCE OR REMOVAL IS REQUIRED.
2. FOR INLET PROTECTION, TYPE C WITH A CURB BOX, AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES.

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



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.

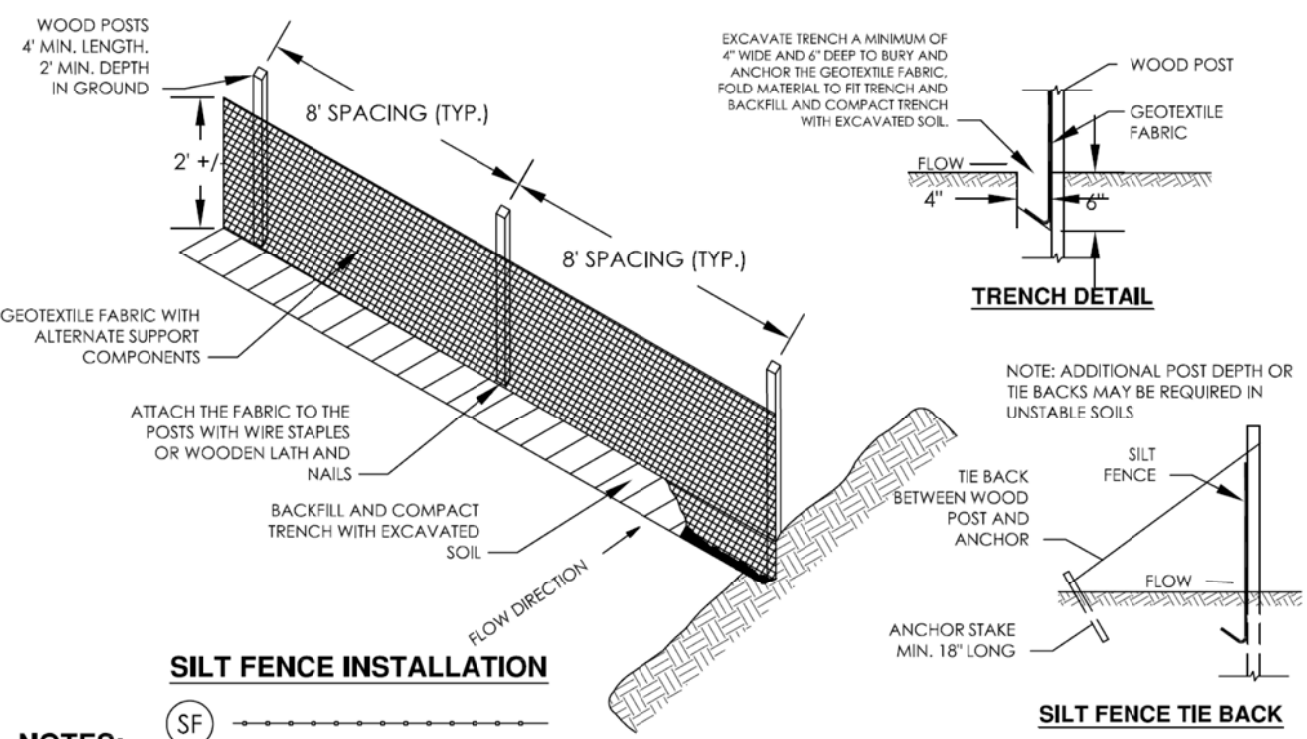
EROSION MAT SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

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:

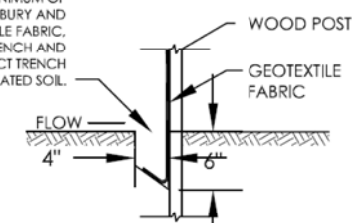
JUNCTION OR ANCHOR SLOTS SHALL BE AT MINIMUM INTERVALS OF 100 FEET (30.48 m) ON GRADES UP TO AND INCLUDING 3 PERCENT, AND 50 FEET (15.24 m) ON GRADES EXCEEDING 3 PERCENT.



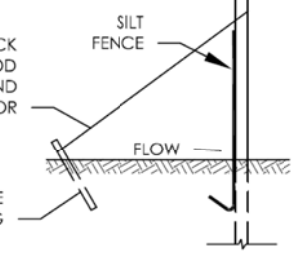
SILT FENCE INSTALLATION



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)

EROSION MAT

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

CITY VIEW DRIVE CITY OF MADISON

PLOT SCALE: _____

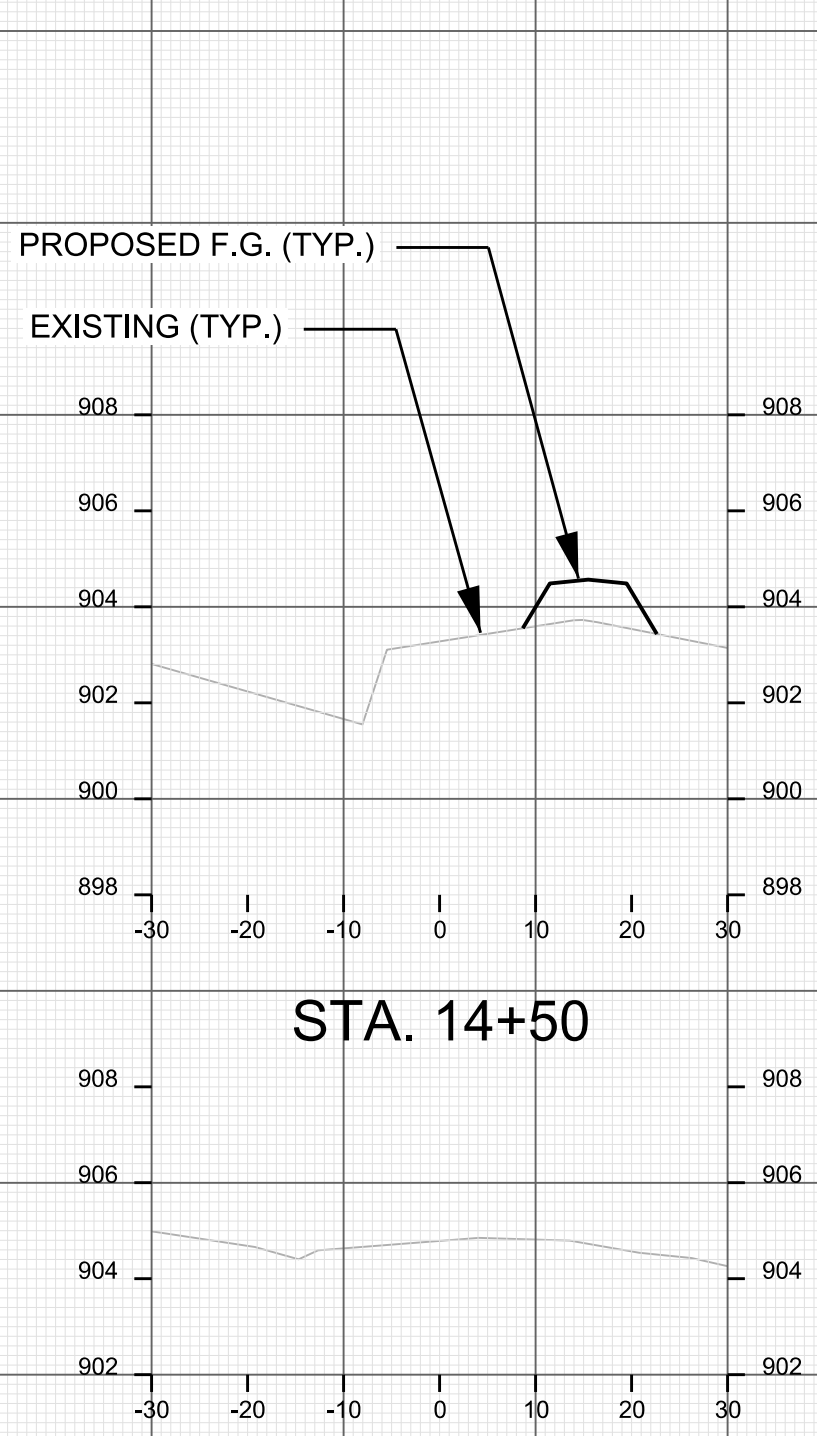
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REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PROPOSED F.G. (TYP.)

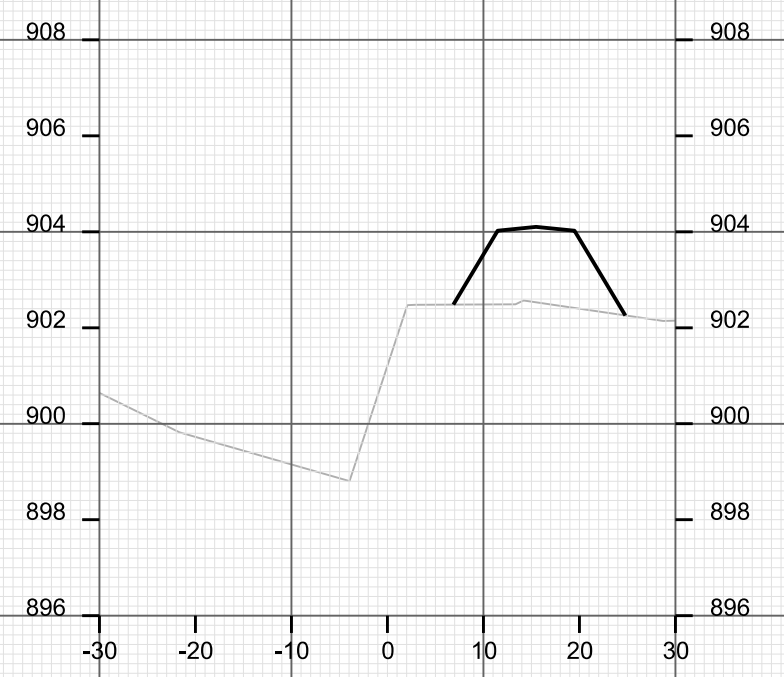
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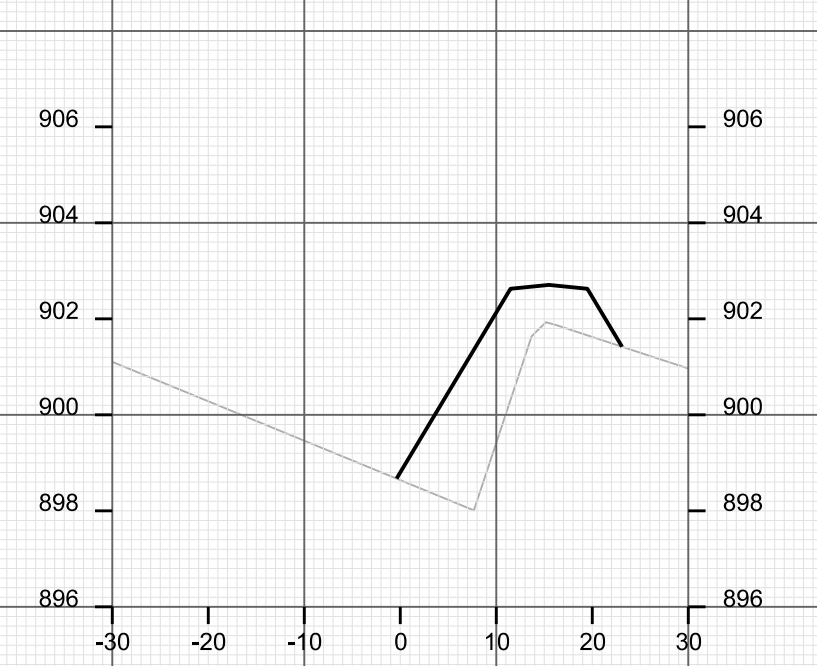
STA. 14+25



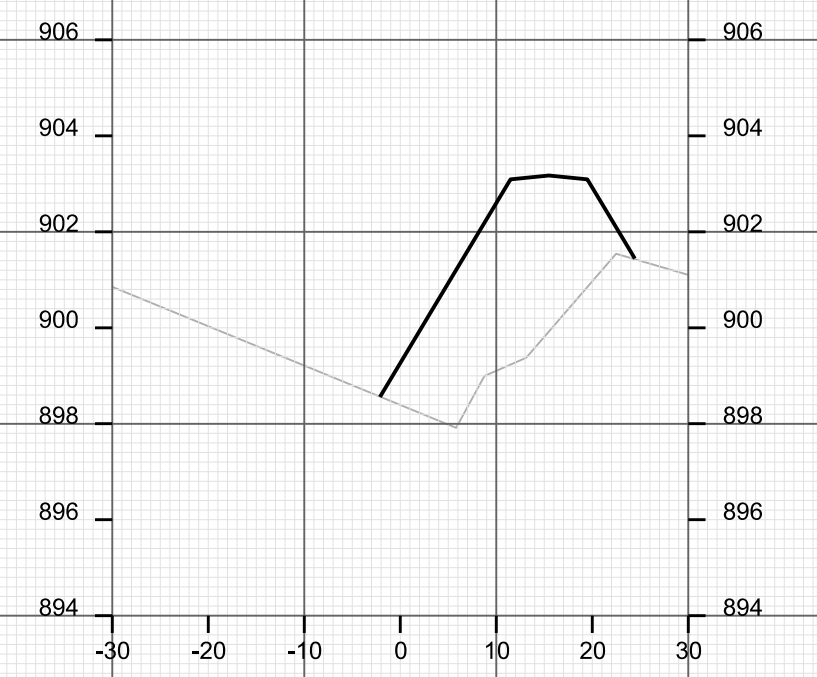
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STA. 14+25



STA. 15+25



STA. 15+25



CROSS SECTIONS

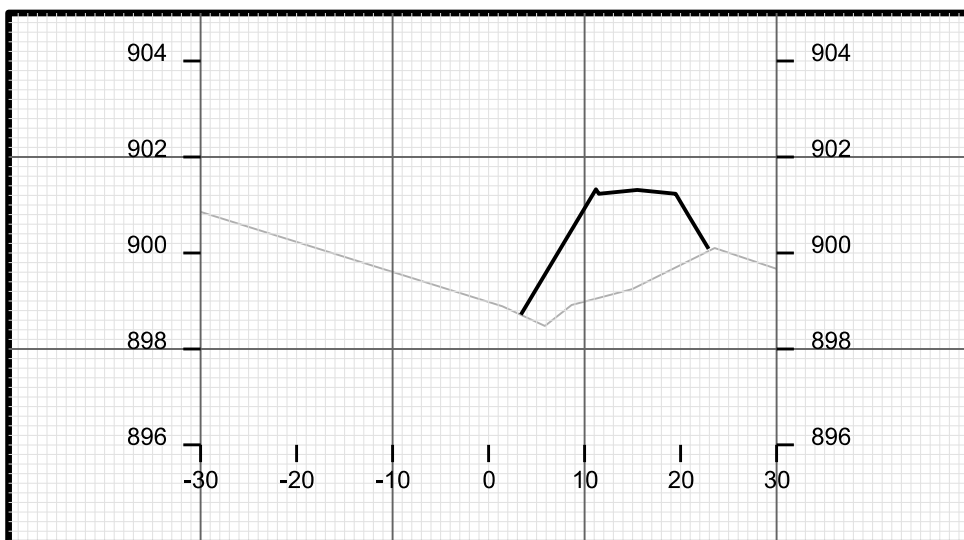
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PLOT SCALE: _____

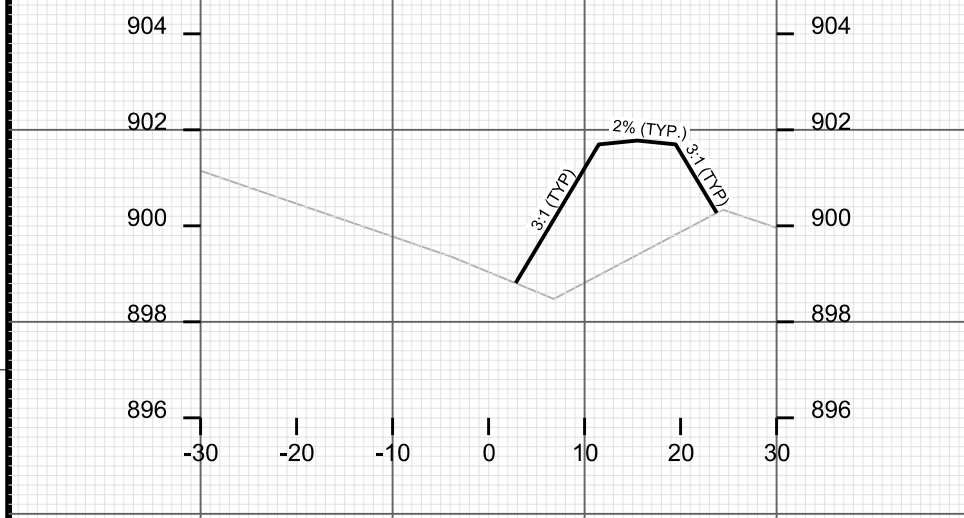
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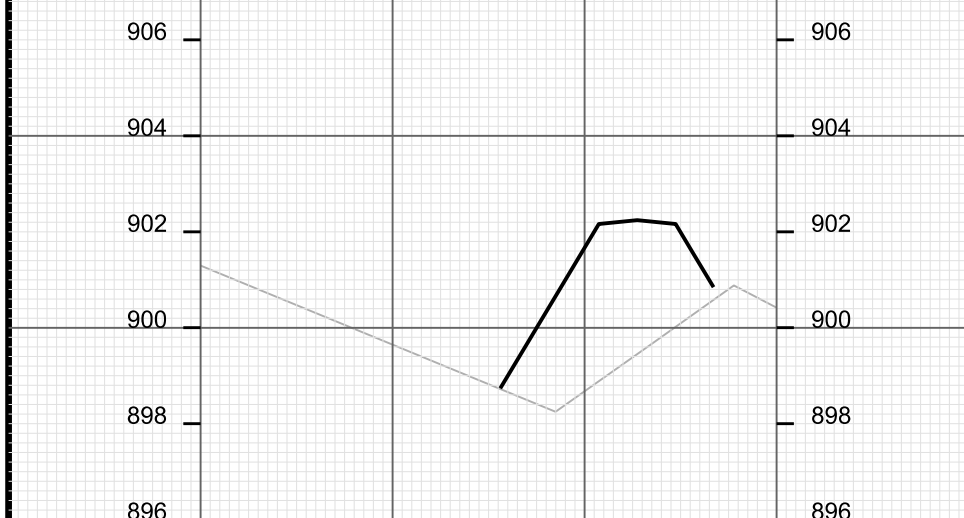
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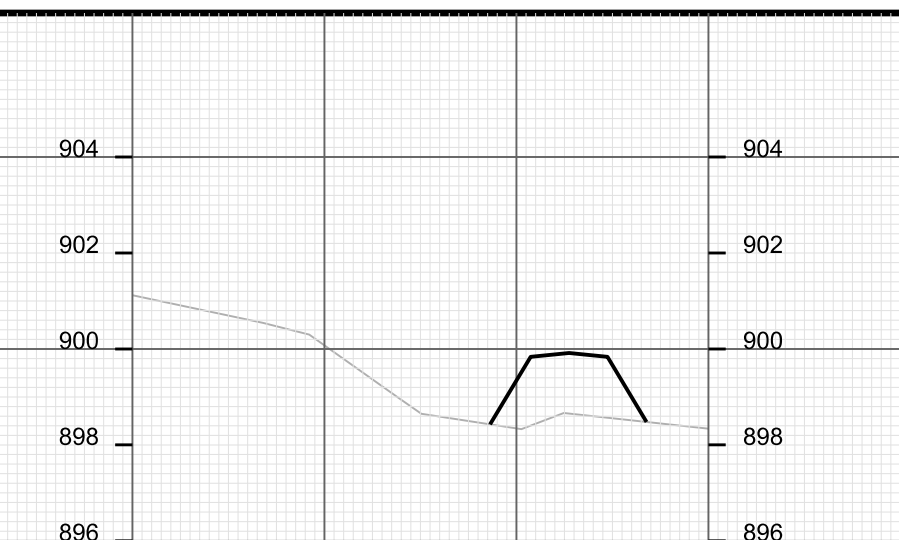
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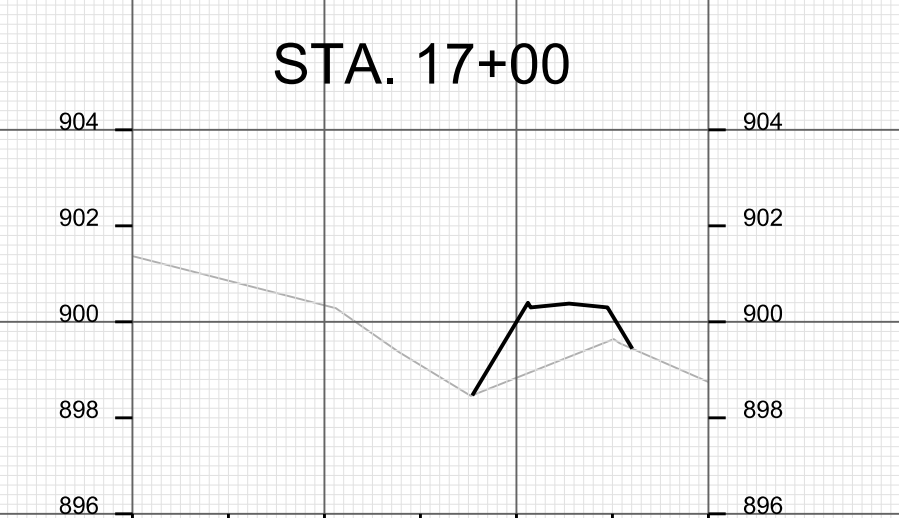
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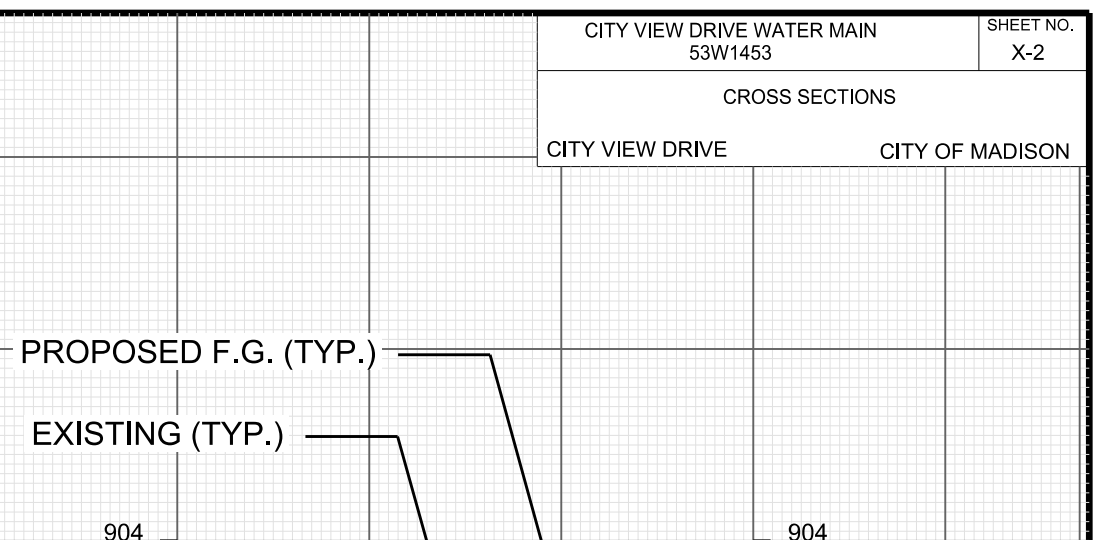
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STA. 16+75



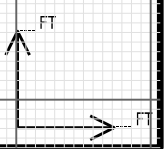
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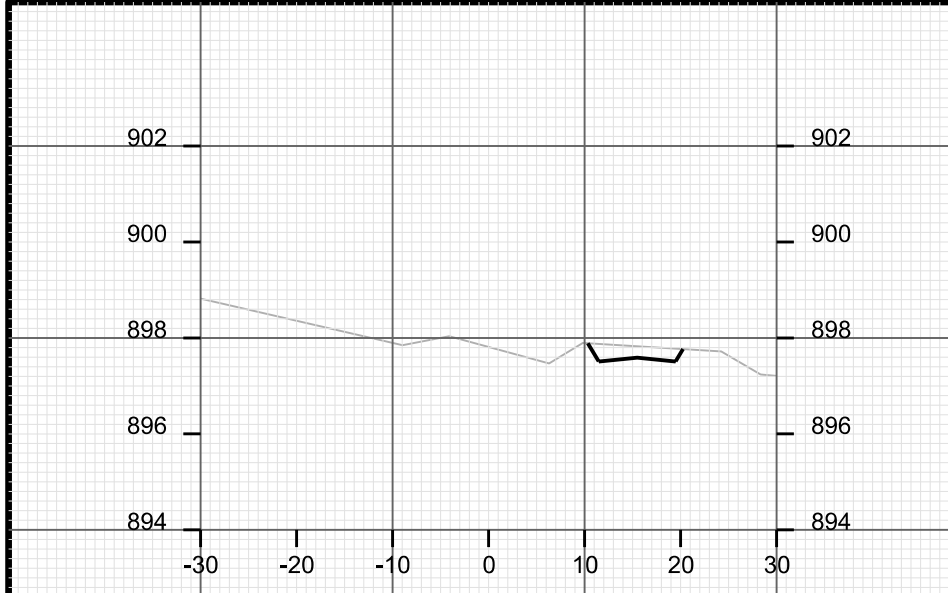
CITY VIEW DRIVE CITY OF MADISON

PLOT SCALE: _____

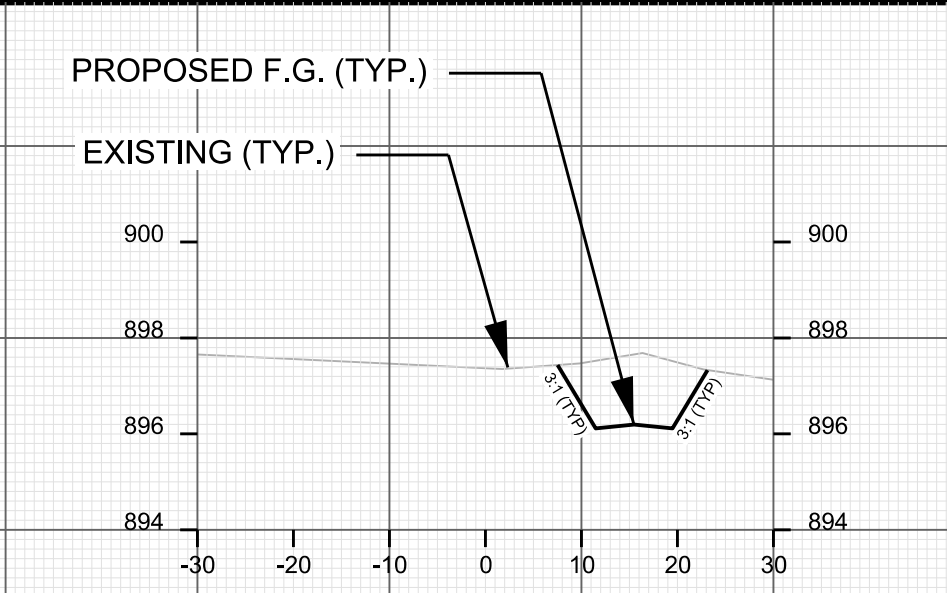
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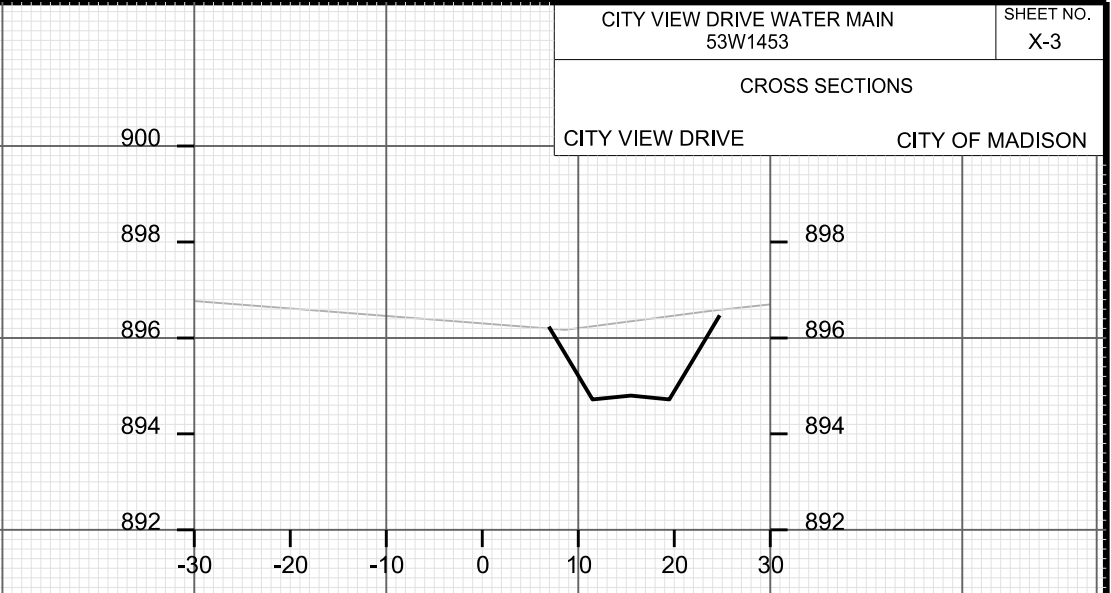
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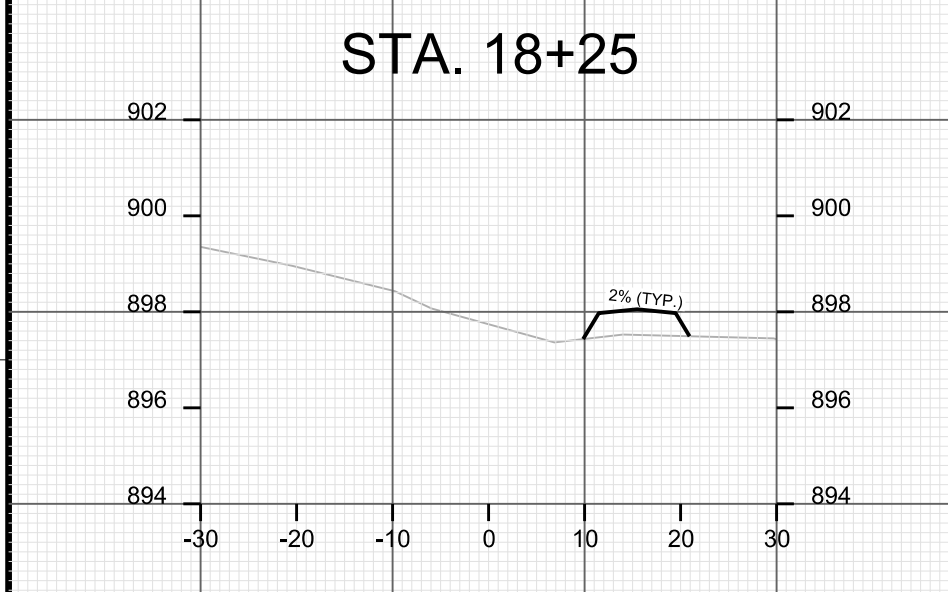
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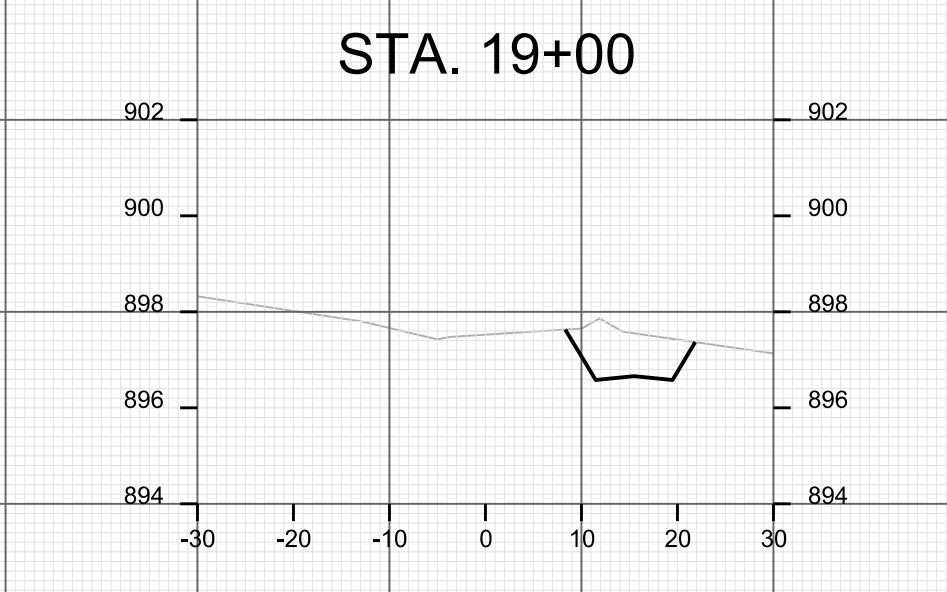
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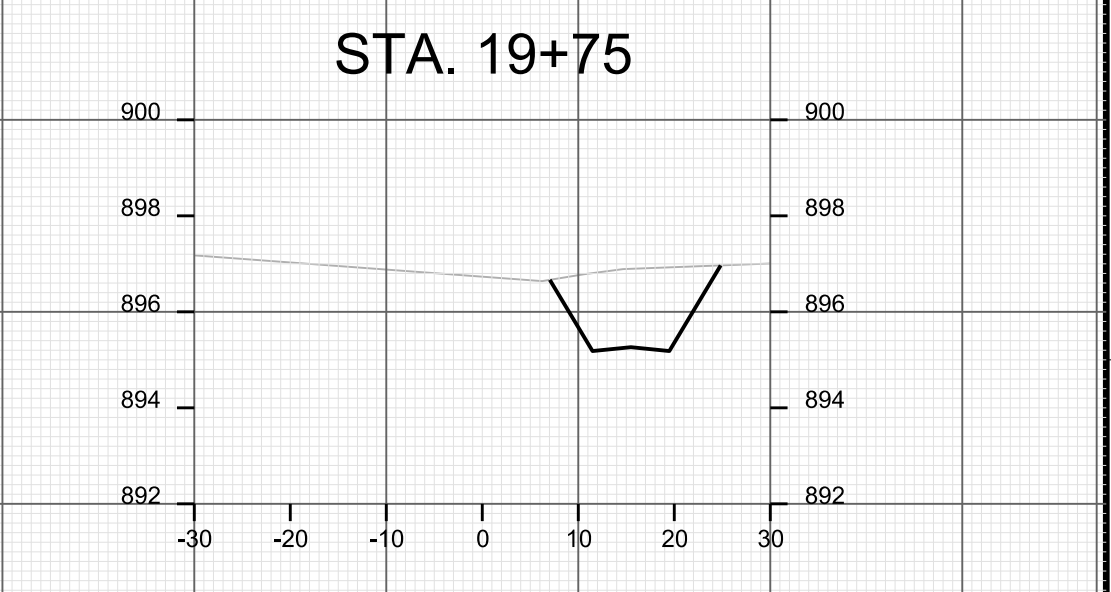
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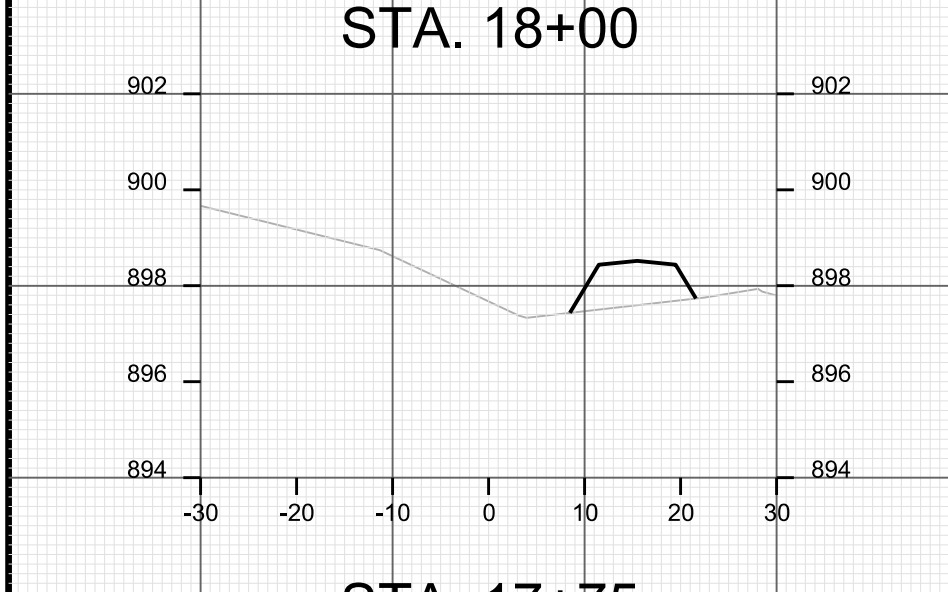
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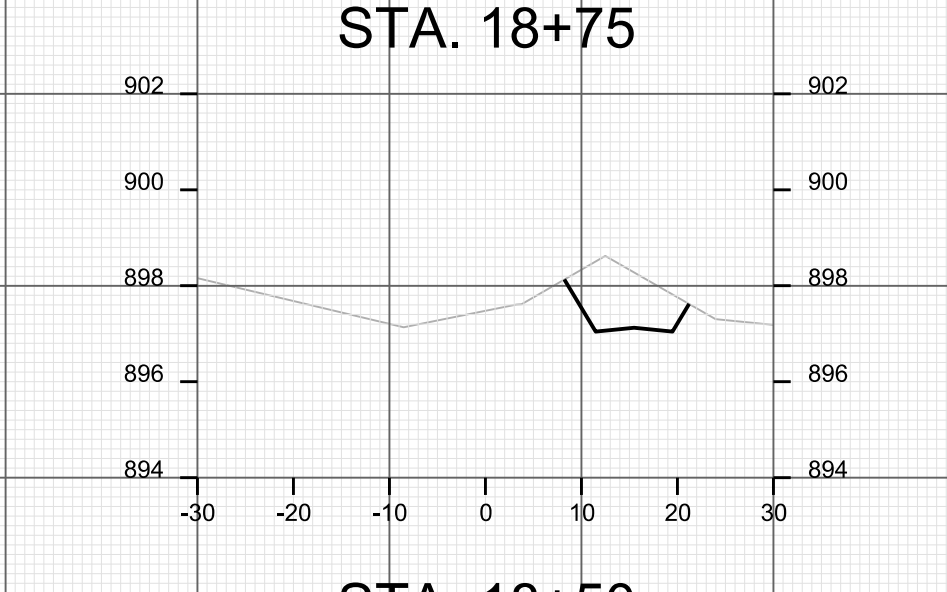
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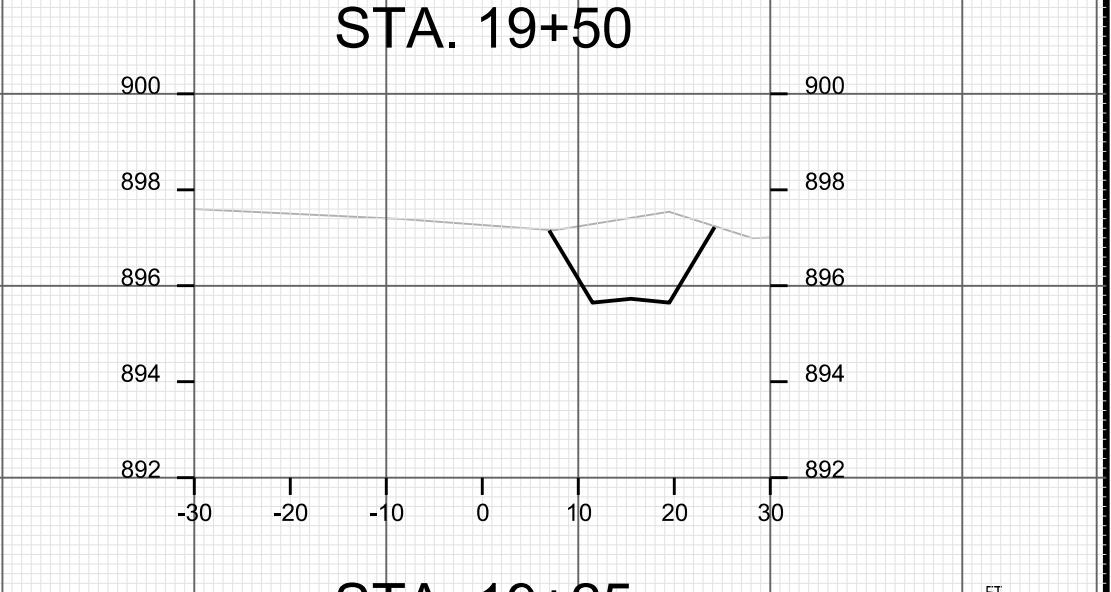
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STA. 17+75



STA. 18+50



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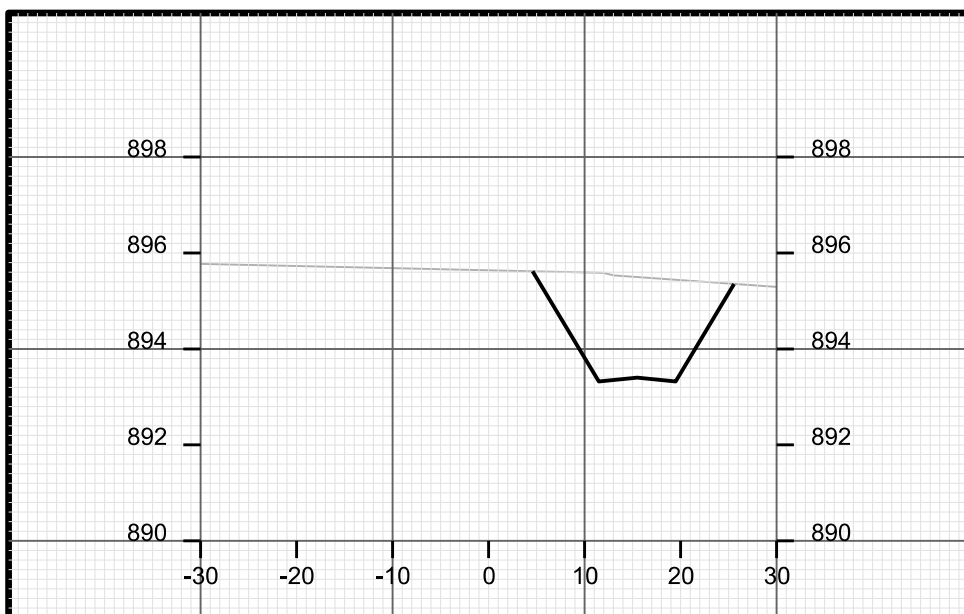


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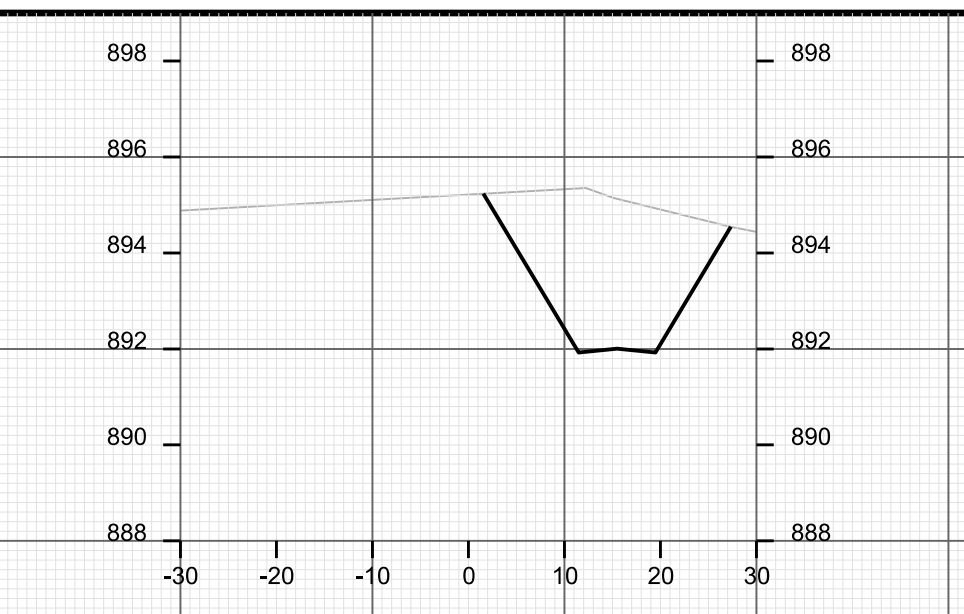
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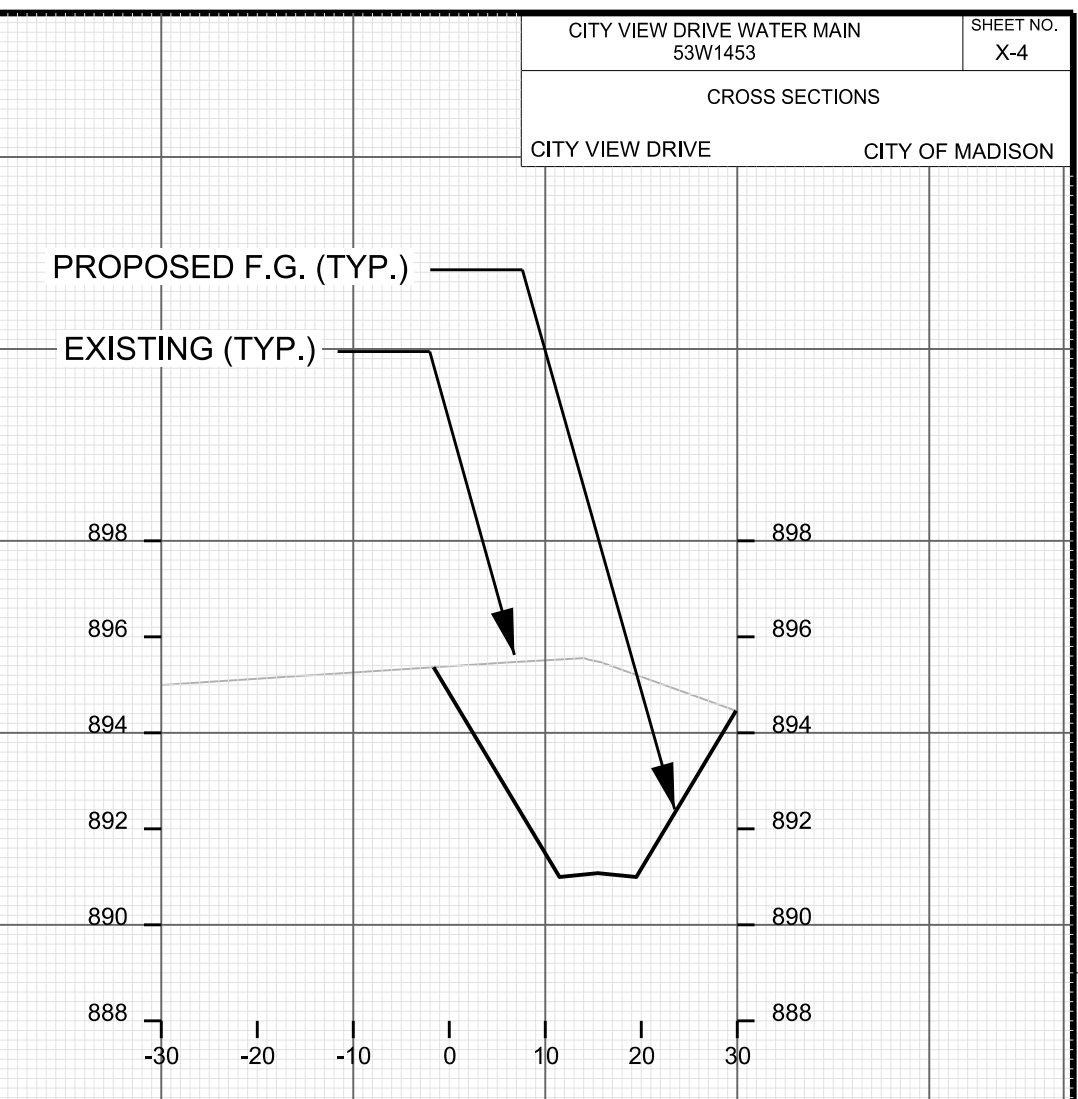
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STA. 20+50



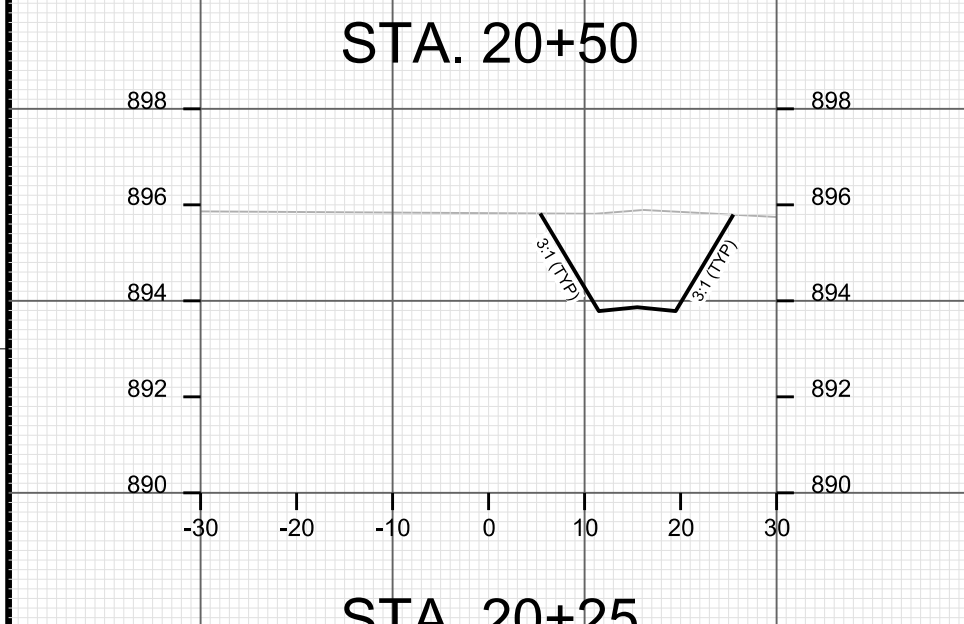
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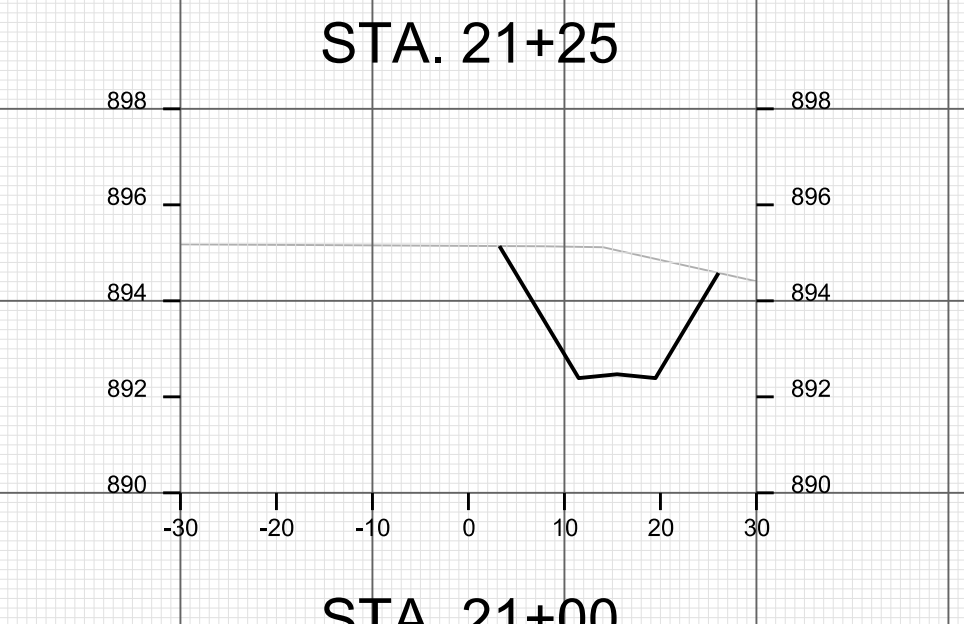
PROPOSED F.G. (TYP.)

EXISTING (TYP.)

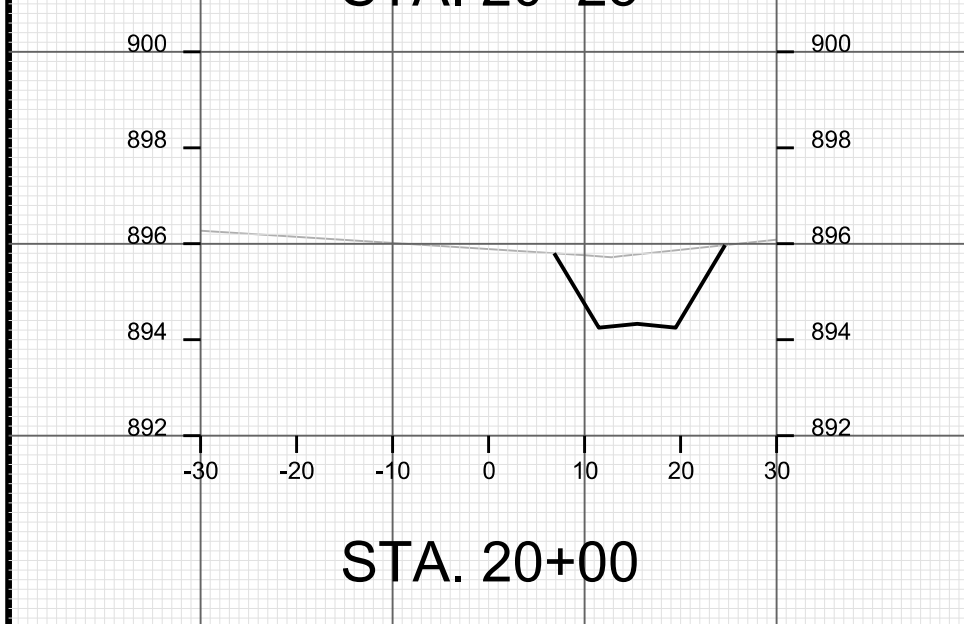
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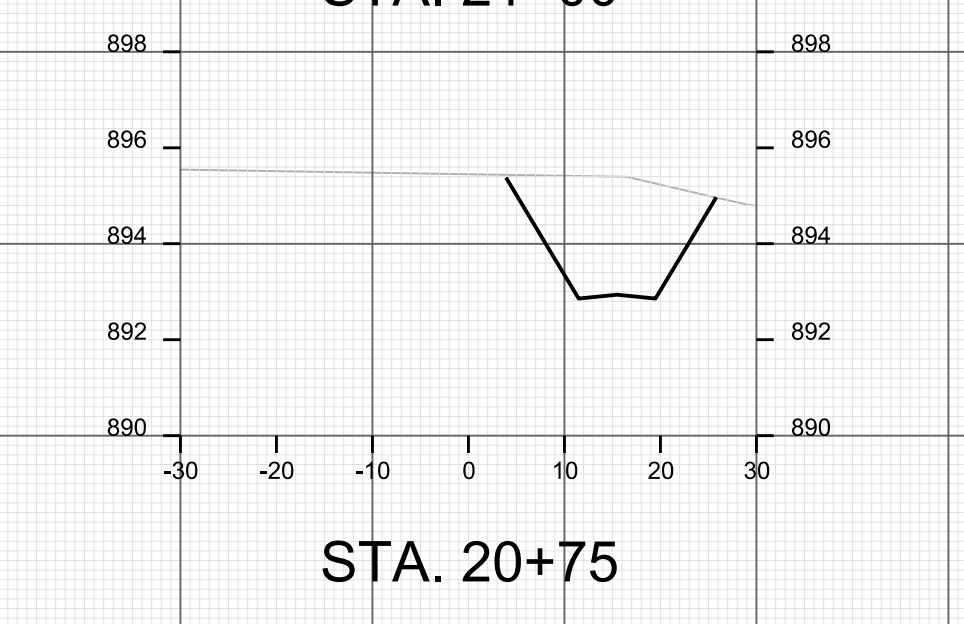
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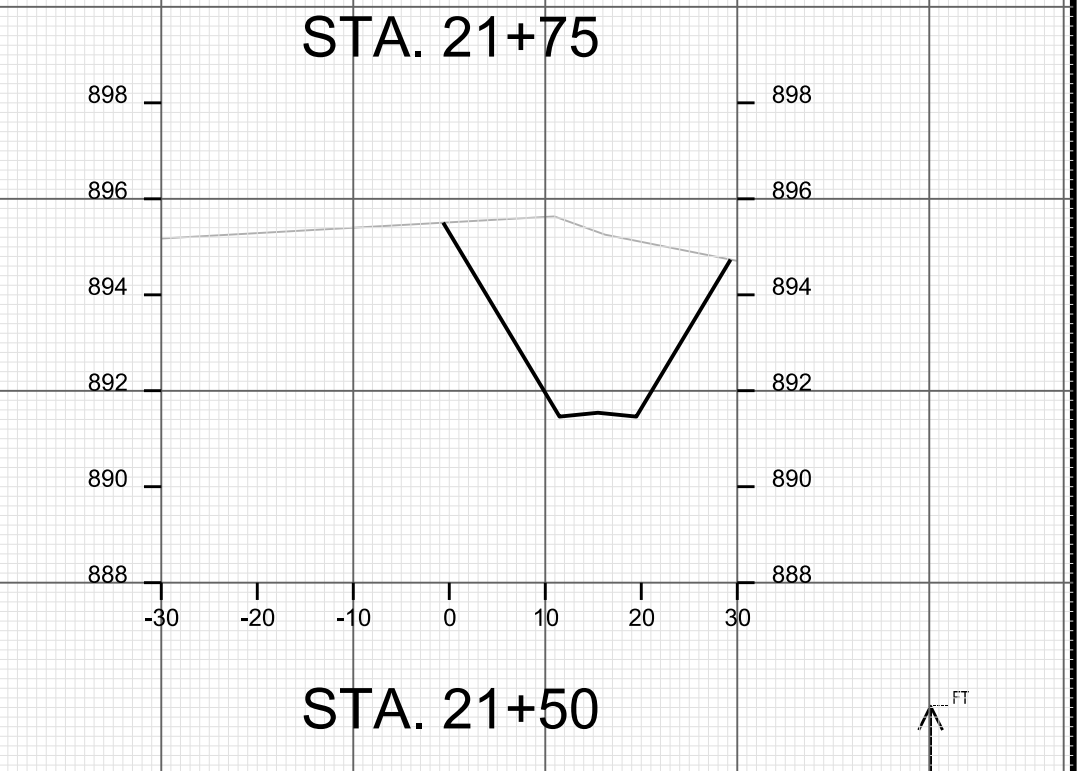
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STA. 20+00



STA. 20+75

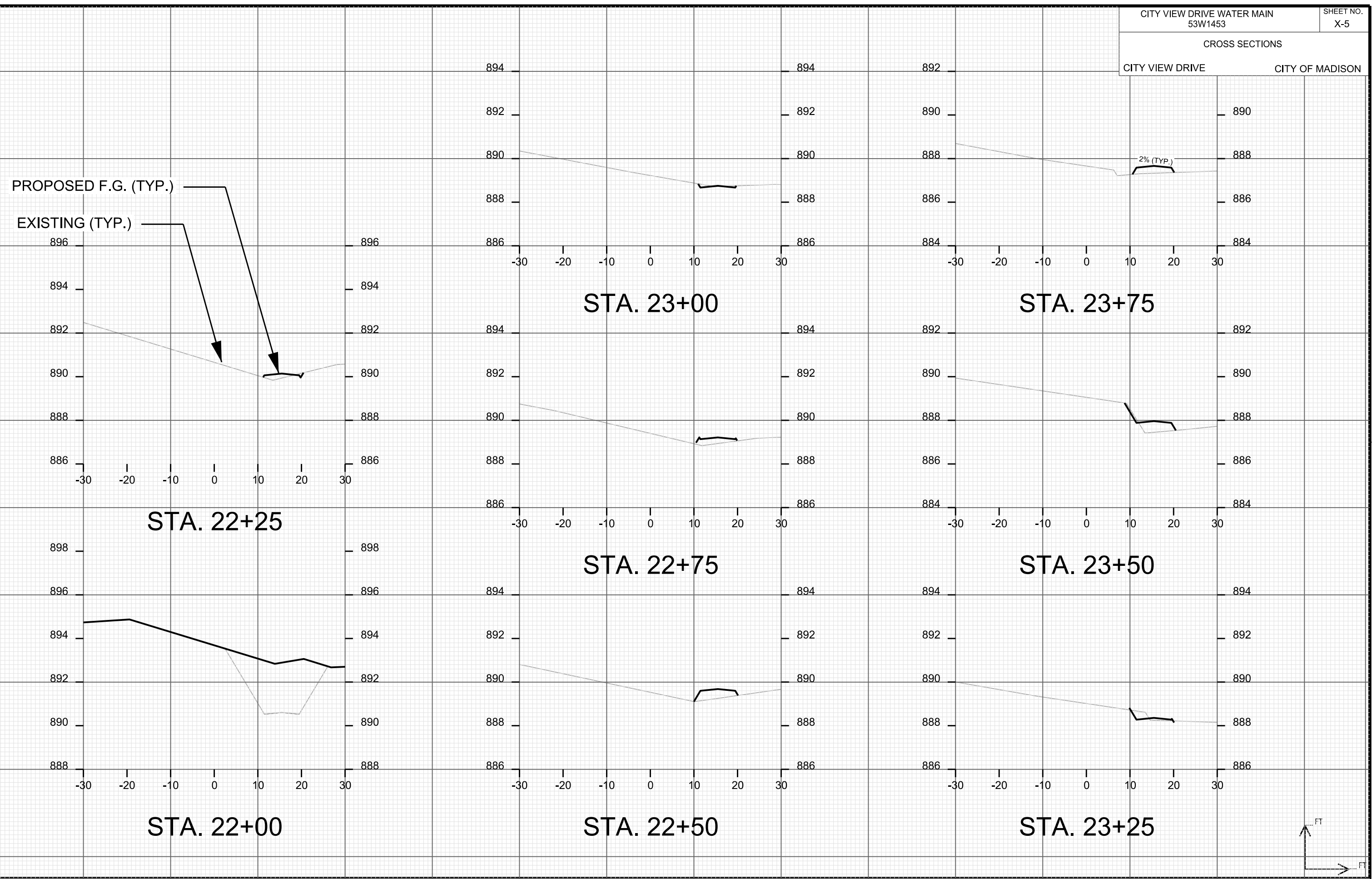


STA. 21+50



CROSS SECTIONS

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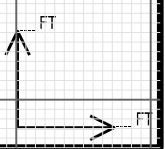


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PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

CITY VIEW DRIVE CITY OF MADISON

PROPOSED F.G. (TYP.)

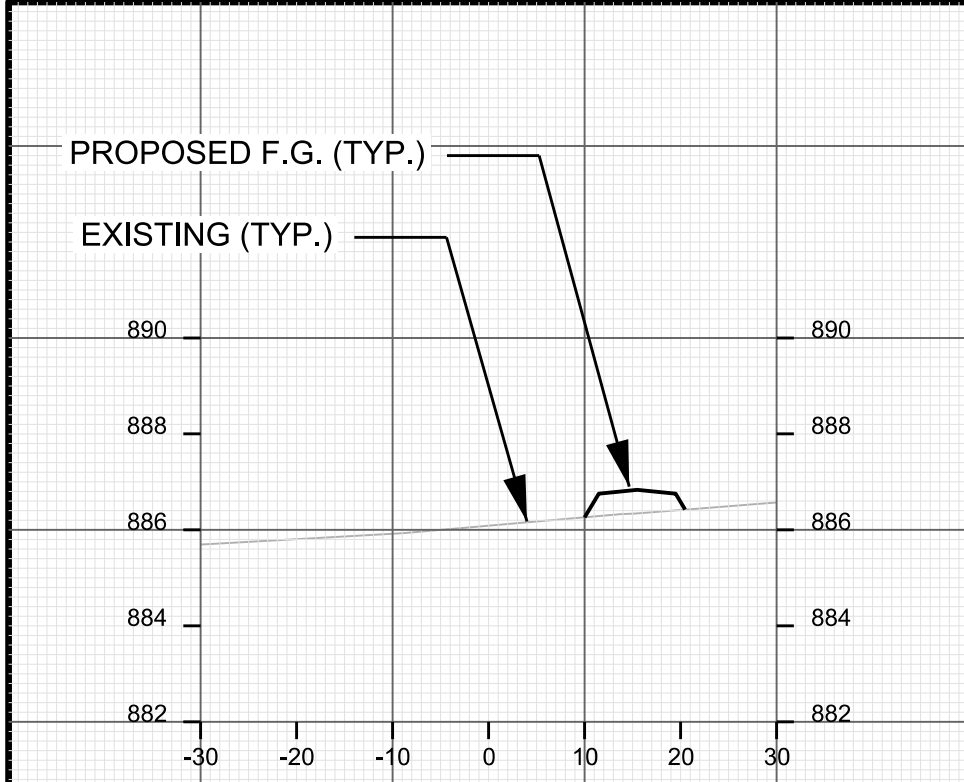
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PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

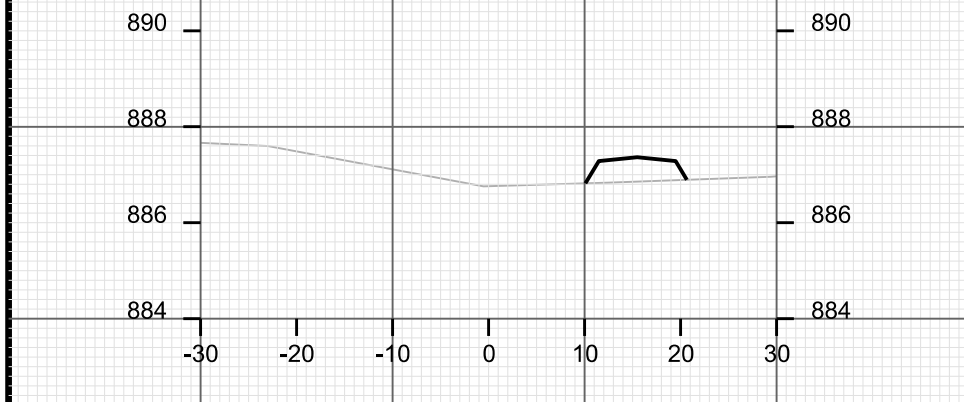
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



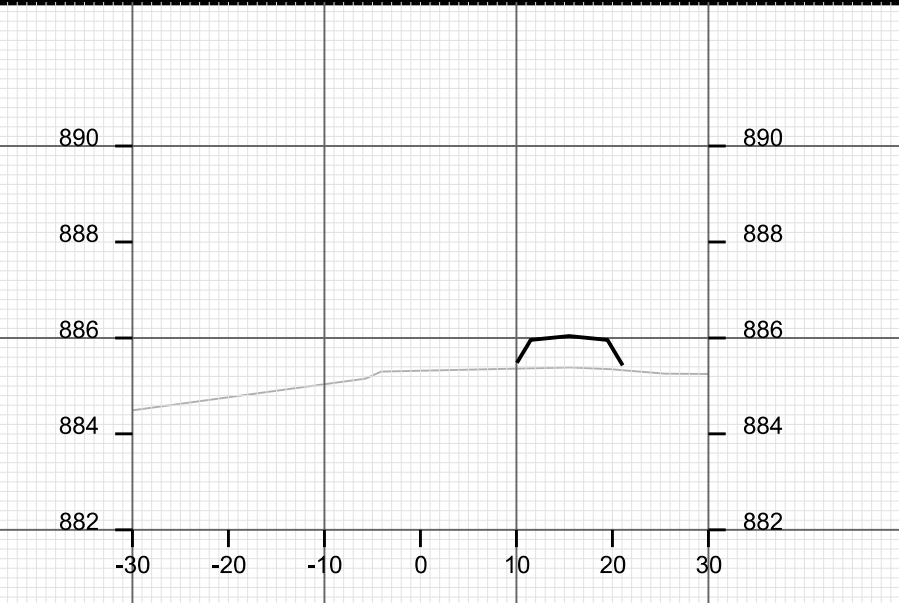
STA. 24+50



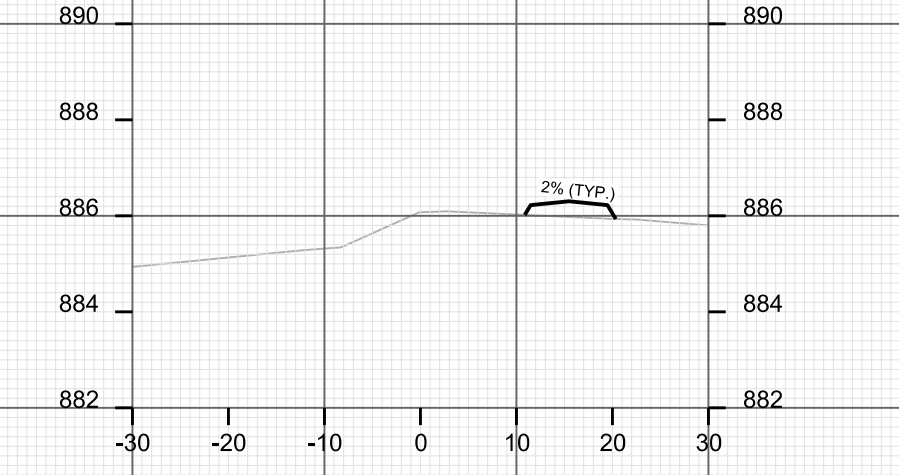
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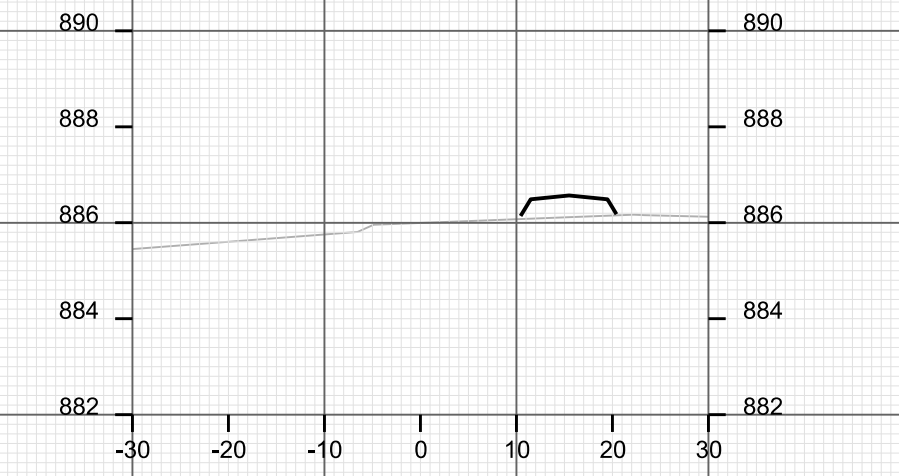
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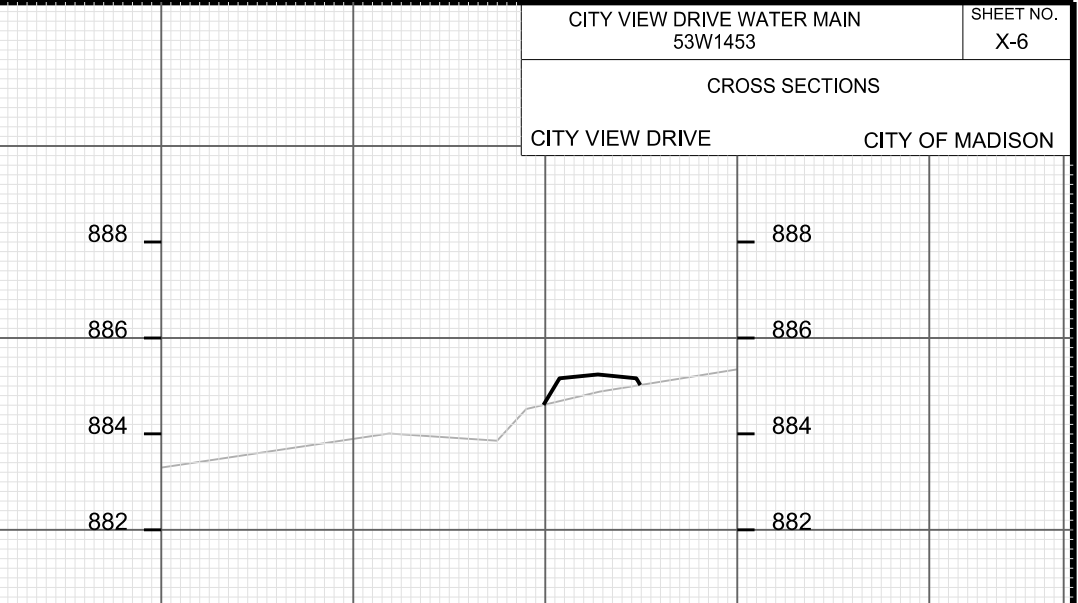
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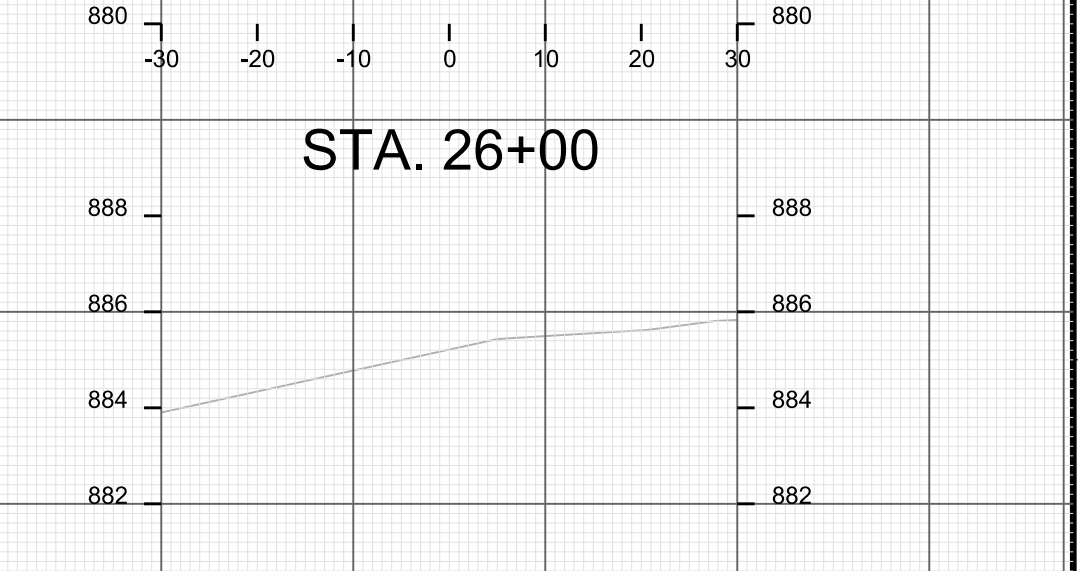
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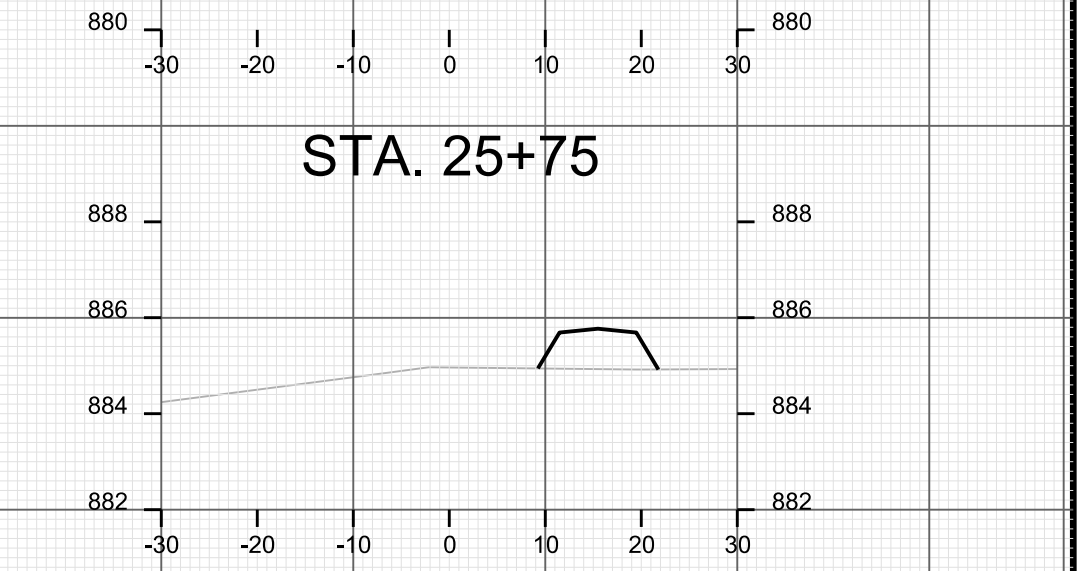
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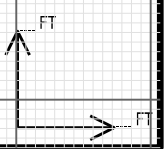
STA. 26+00



STA. 25+75



STA. 25+50



CROSS SECTIONS

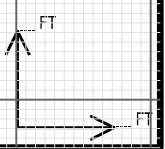
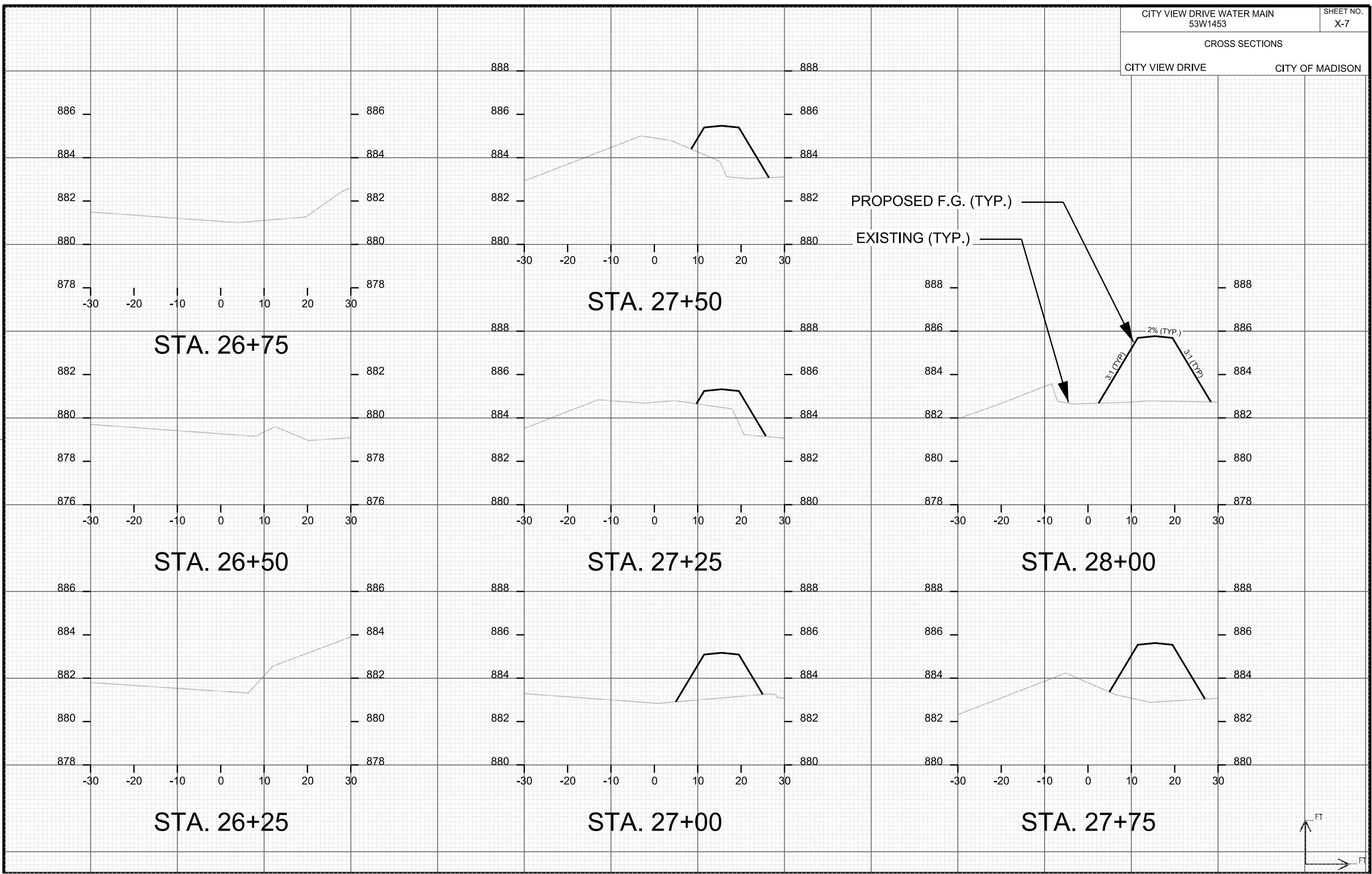
CITY VIEW DRIVE CITY OF MADISON

PLOT SCALE: _____

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CROSS SECTIONS

CITY VIEW DRIVE

CITY OF MADISON

PLOT SCALE: _____

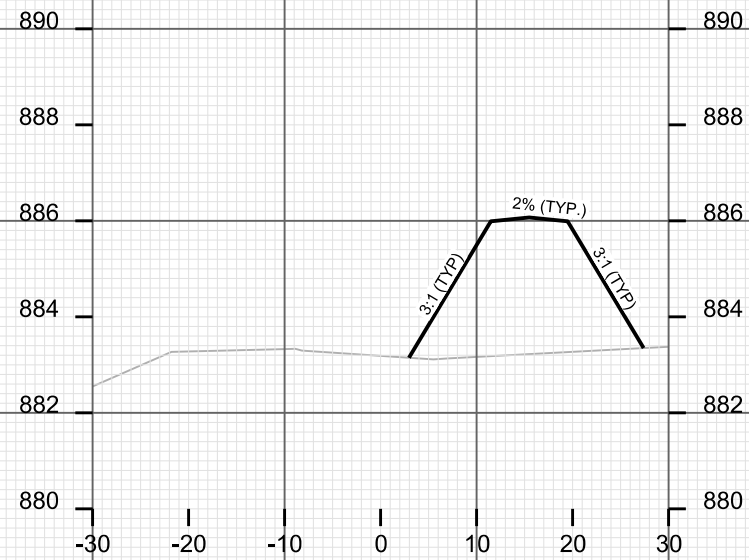
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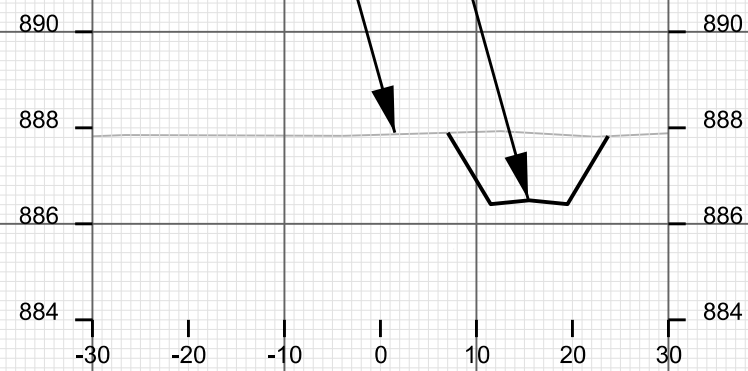
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PROPOSED F.G. (TYP.)

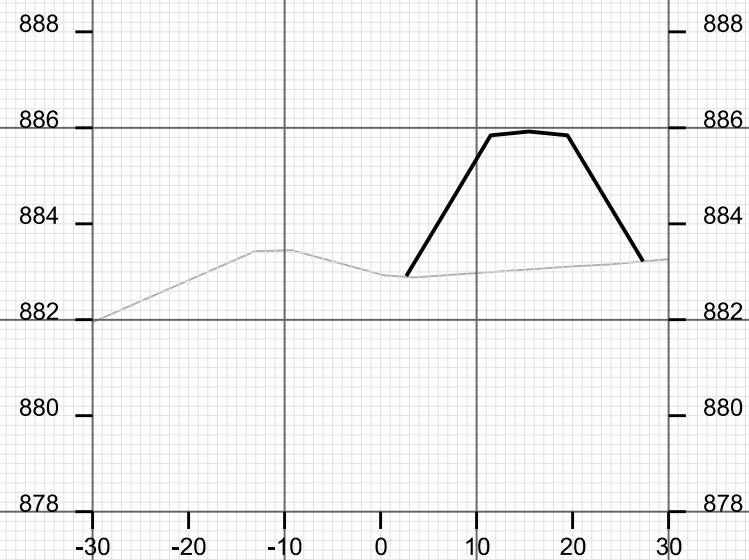
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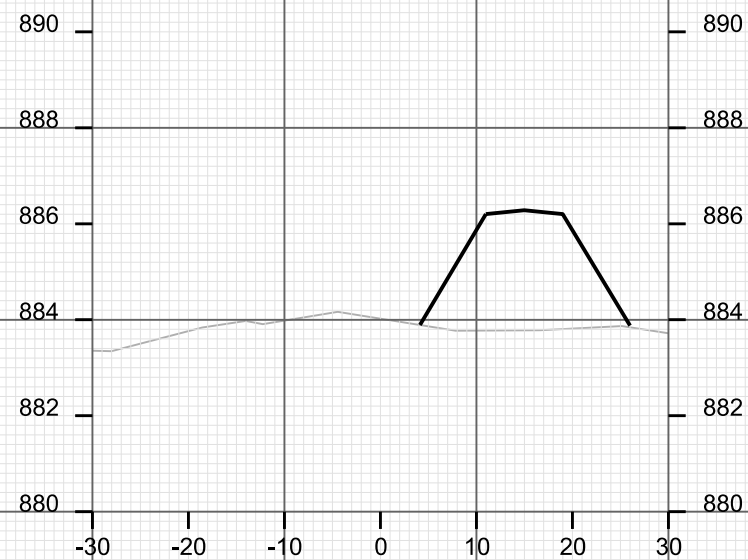
STA. 28+50



STA. 29+00



STA. 28+25



STA. 28+75

