

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

UTILITY REPLACEMENT WITH RESURFACING
2016 ASSESSMENT DISTRICT

(HOLLY AVENUE, ST CLAIR STREET)
(S. DICKINSON STREET, NORTHERN COURT)
(LANGDON STREET)

CITY PROJECT NO. 11097
CONTRACT NO. 7611

PUBLIC IMPROVEMENT PROJECT APPROVED

JANUARY 5, 2016

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

[Signature] 1/22/16
City Engineer Date

STREET DESIGNED BY:

WISCONSIN PROFESSIONAL ENGINEER
STEVEN M. SONNTAG
E-38891
MADISON WI
1-22-16

SANITARY SEWERS DESIGNED BY:

WISCONSIN PROFESSIONAL ENGINEER
MARK D. MODER
E-33979
MADISON WI
1/22/16

STORM SEWERS DESIGNED BY:

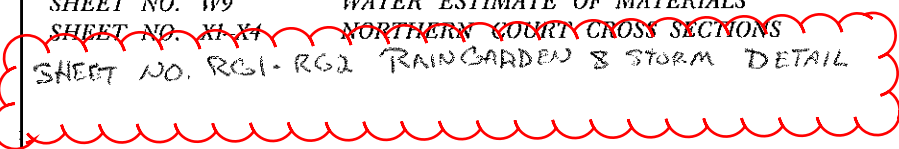
WISCONSIN PROFESSIONAL ENGINEER
LEAH M. DUNDEE
E-40126
SUN PRAIRIE WI
01-22-2016

WATER DESIGNED BY:

WISCONSIN PROFESSIONAL ENGINEER
ADAM R. WIEDERHOEFT
E-41559
MADISON WI
1/22/2016

INDEX OF SHEETS

| SHEET NO. | TITLE |
|-----------|---|
| 1 | DETAILS - NORTHERN COURT TYPICAL SECTION |
| D-1 | PLAN & PROFILE - HOLLY & ST CLAIR |
| P1-P4 | PLAN & PROFILE - S DICKINSON & NORTHERN |
| P5-P6 | SEWER PLAN & PROFILE - HOLLY & ST CLAIR |
| U1-U4 | SEWER SCHEDULES - HOLLY & ST CLAIR |
| U5 | SEWER PLAN & PROFILE - S DICKINSON & NORTHERN |
| U6-U8 | SEWER SCHEDULES - S DICKINSON & NORTHERN |
| U9-U10 | SEWER PLAN & PROFILE - LANGDON |
| U11-U12 | SEWER SCHEDULES - LANGDON |
| U13 | WATER PLAN & PROFILE - HOLLY & ST CLAIR |
| W1-W4 | WATER PLAN & PROFILE - NORTHERN |
| W5-W6 | WATER SYSTEM IMPACT PLAN |
| W7-W8 | WATER ESTIMATE OF MATERIALS |
| W9 | NORTHERN COURT CROSS SECTIONS |
| W10 | RAIN GARDEN & STORM DETAIL |

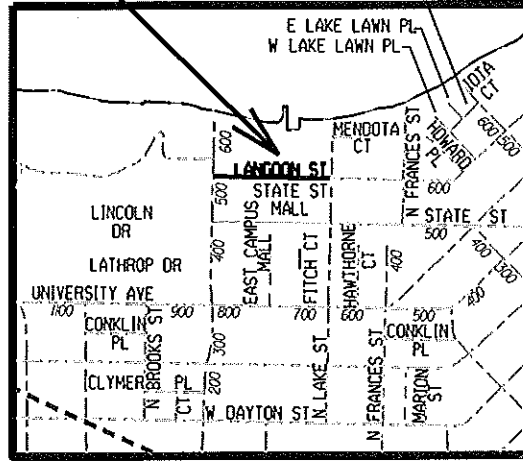
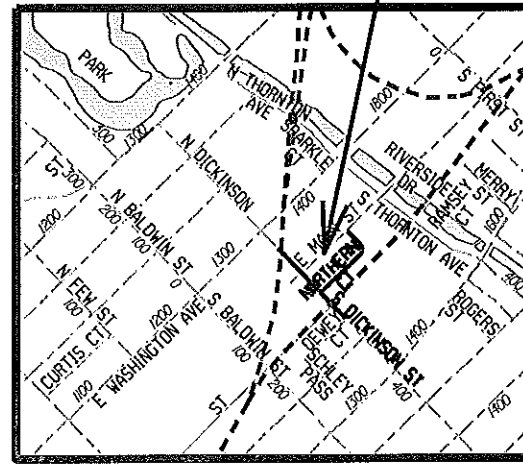
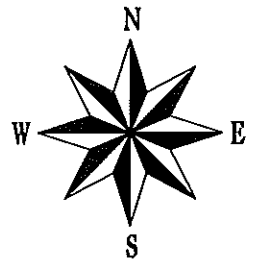
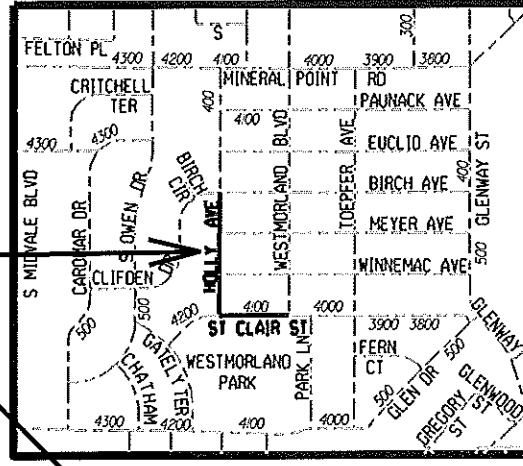


CONVENTIONAL SIGNS

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 | ⚠ |

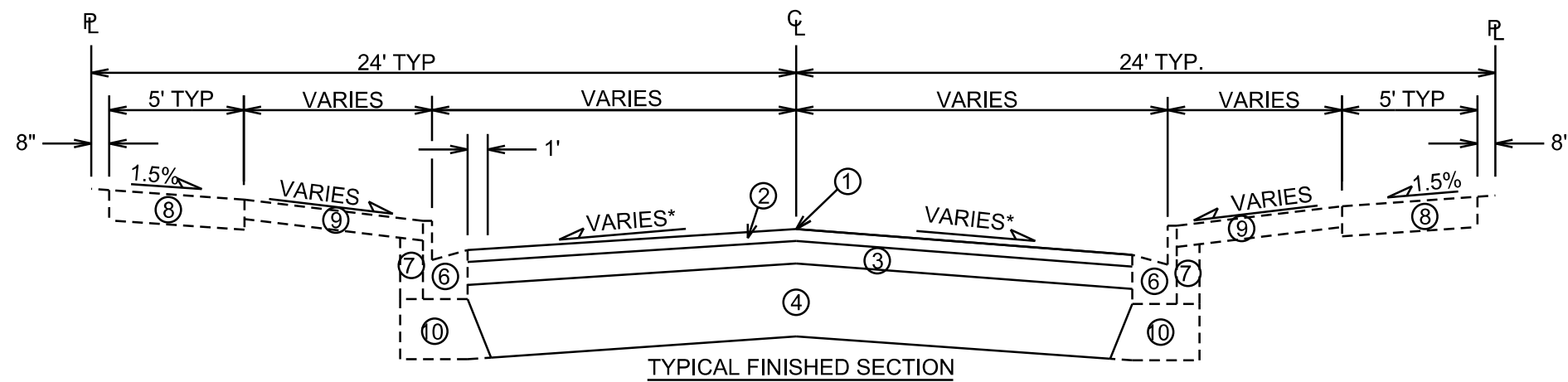
CONSTRUCTION PROJECT LOCATIONS



NOTES:
ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS. SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

EARTH WORK SUMMARY:
EXCAVATION CUT (MEASURED PLAN QUANTITY)... 575 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT..... 430 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT..... 1005 C.Y.

PLOT SCALE: _____ REV. DATE: _____ ORIGINATOR: C:\D\OE\MADISON\STREETS DIVISION



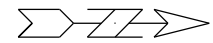
TYPICAL FINISHED SECTION

NORTHERN COURT

- ① POINT REFERRED TO ON PROFILE
- ② 2" BITUMINOUS UPPER LAYER, TYPE E-1
- ③ 2½" BITUMINOUS LOWER LAYER, TYPE E-1
- ④ 10" GRADATION 2 CRUSHED AGGREGATE
- ⑤ REMOVE & REPLACE CONCRETE CURB & GUTTER AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER
- ⑥ REMOVE & REPLACE CONCRETE CURB & GUTTER AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER
- ⑦ FILL, INCIDENTAL WHERE CURB IS REPLACED
- ⑧ 5" CONCRETE SIDEWALK, REMOVE & REPLACE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER
- ⑨ RESTORE DISTURBED AREAS W/ 4" TOPSOIL, SEED & MAT
- ⑩ 4" MIN GRADATION 2 CRUSHED AGGREGATE AS NECESSARY FOR CURB REPLACEMENT

* SEE CROSS SECTION SHEETS FOR CROSS SLOPES AND TOP OF CURB ELEVATIONS.

TYPICAL SECTION NOT TO SCALE

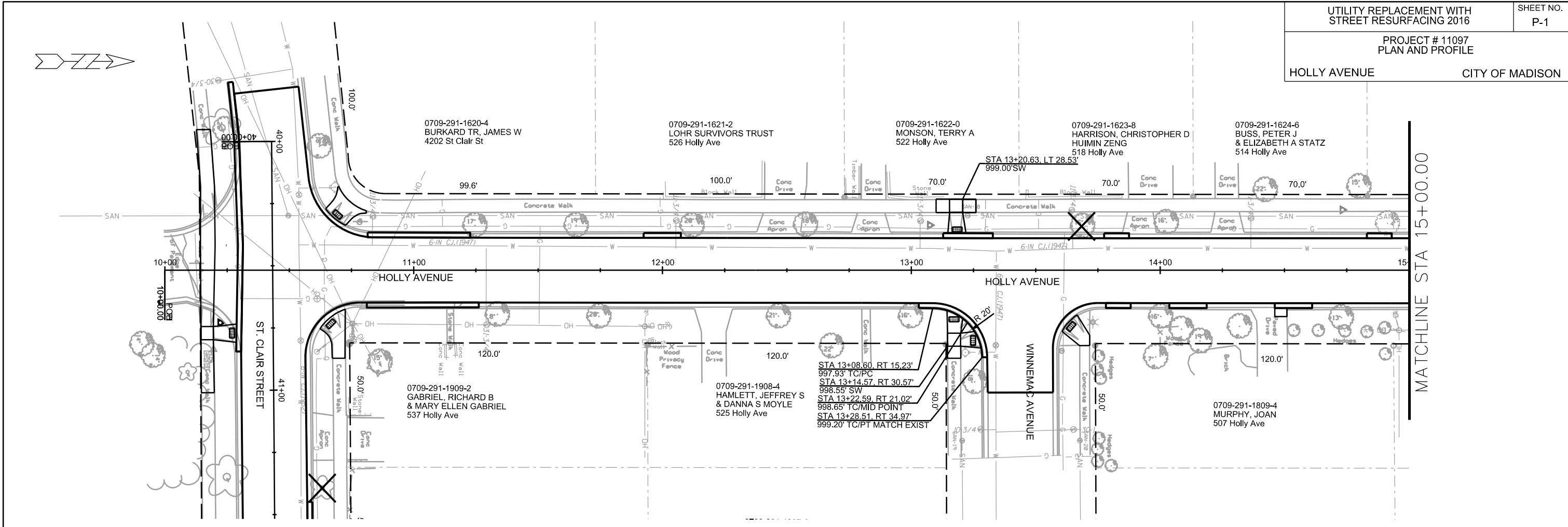


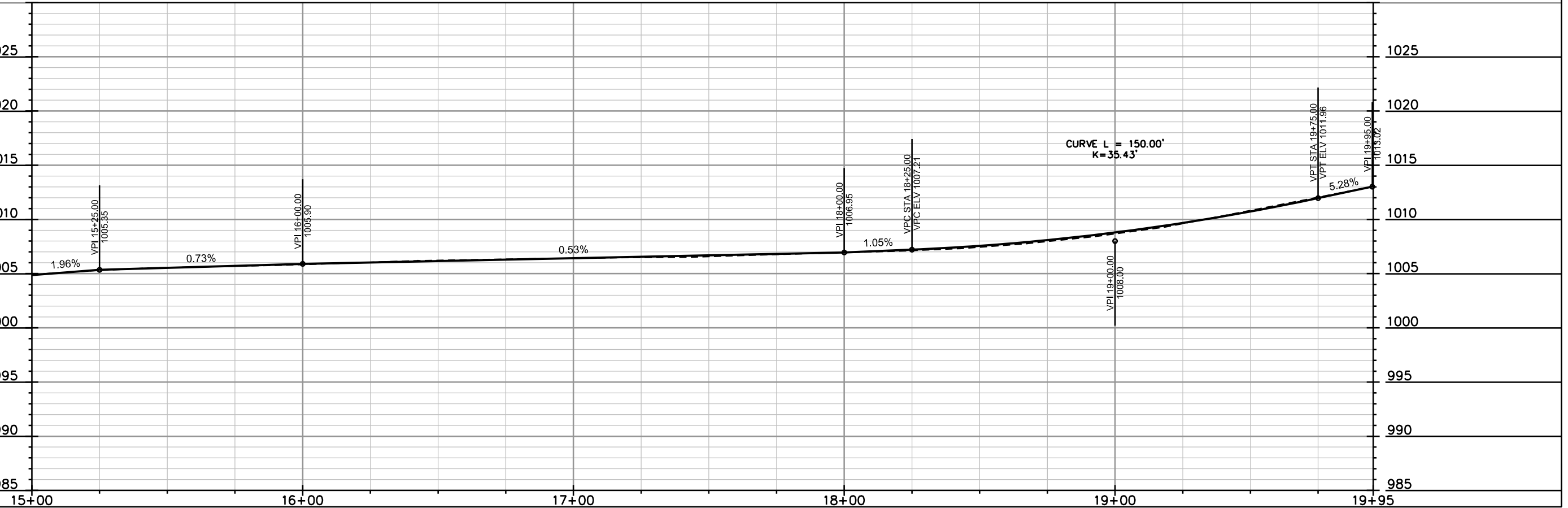
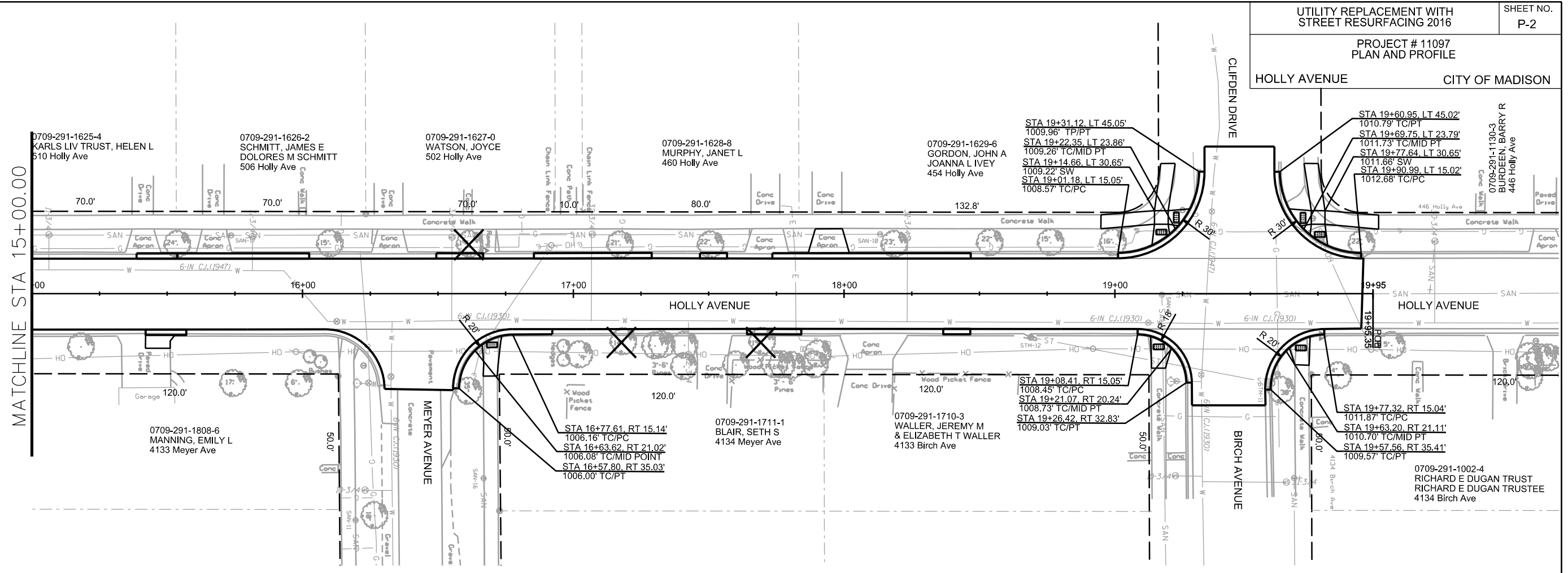
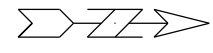
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PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



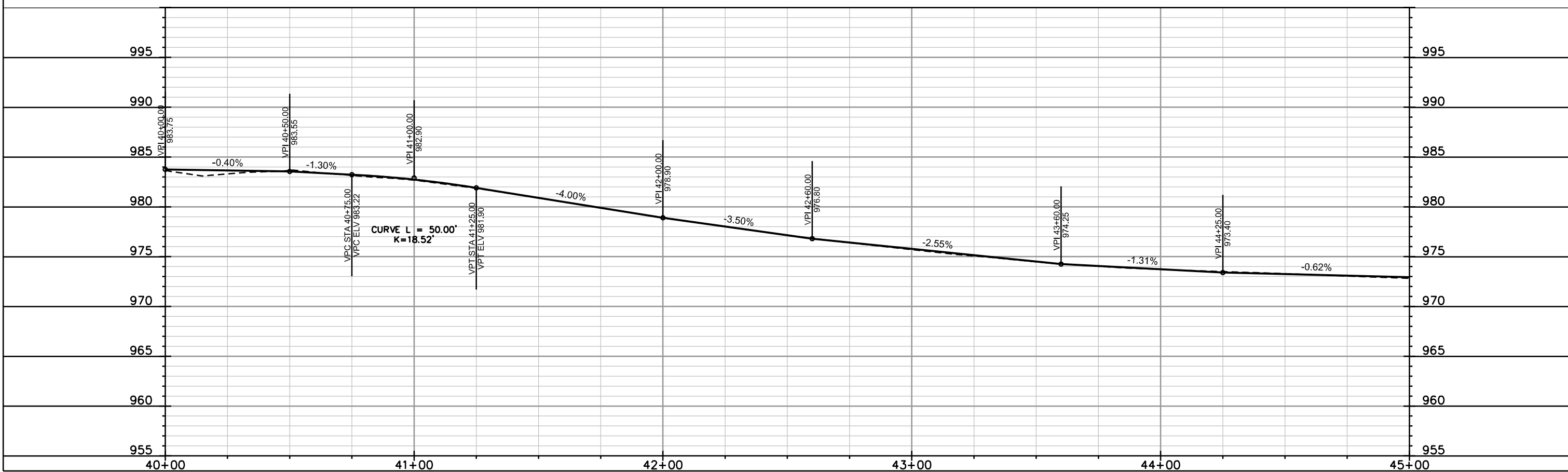
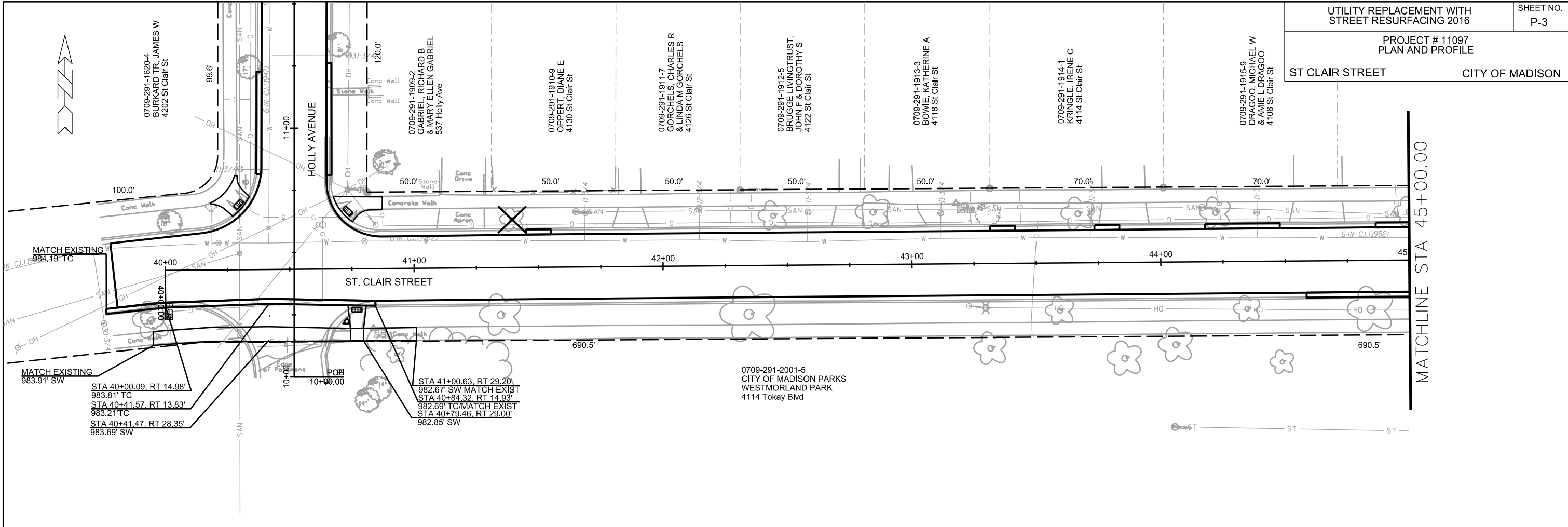


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REV. DATE: _____

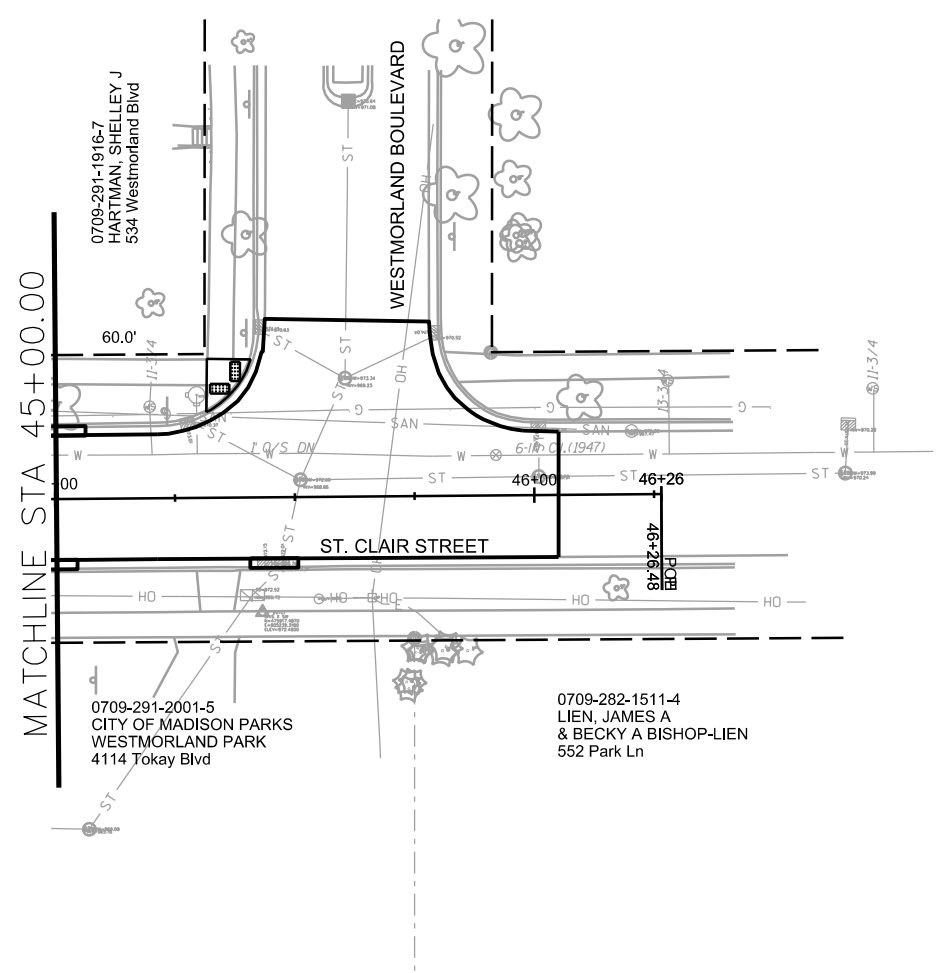
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

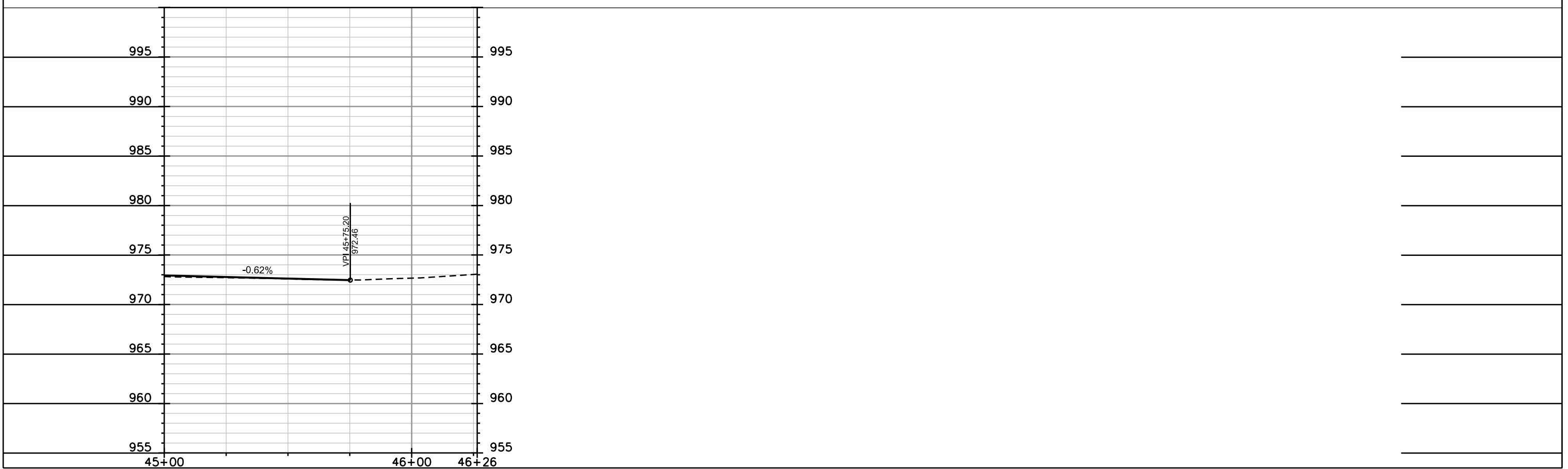


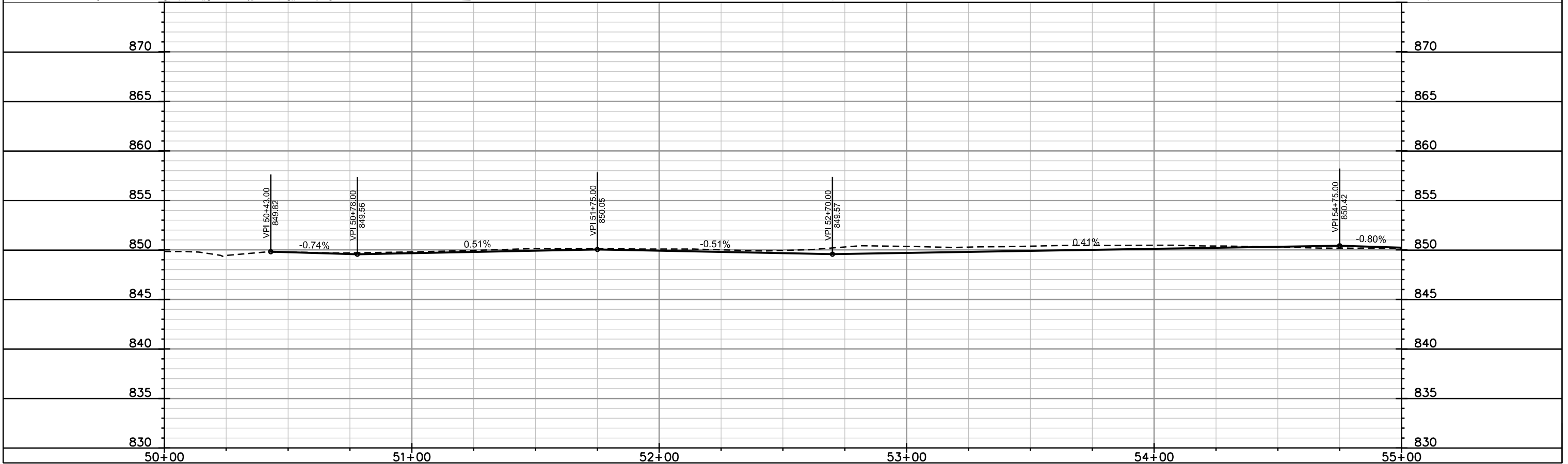
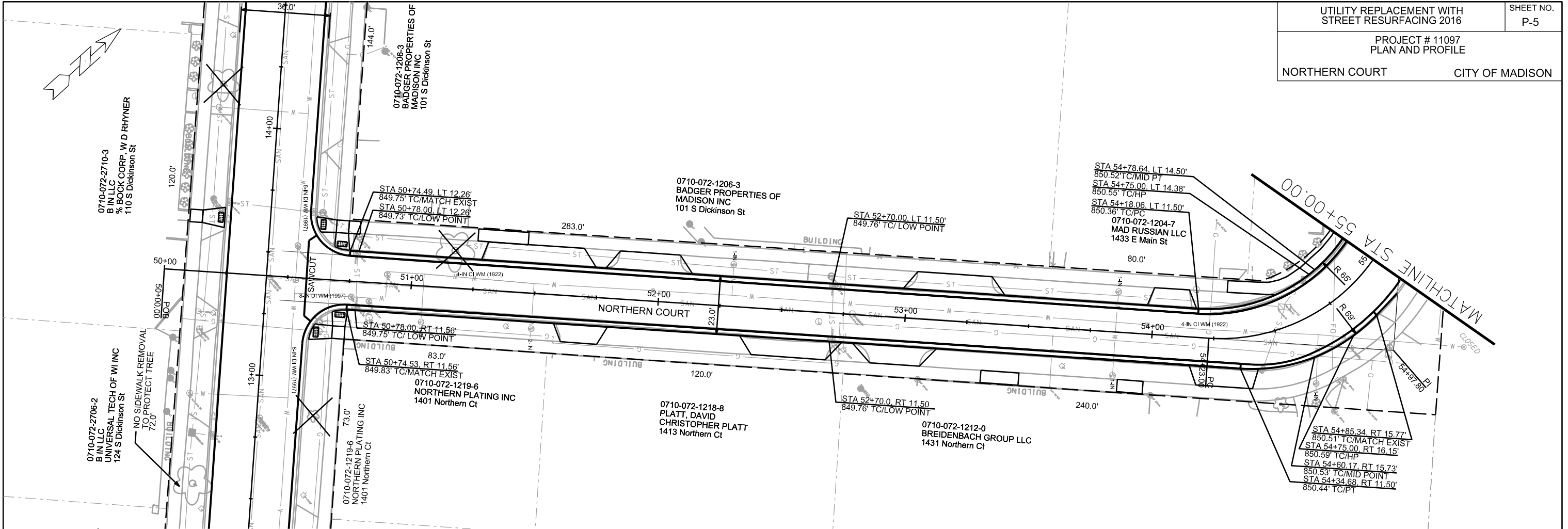
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PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





PLOT SCALE: _____

PLOT NAME: _____

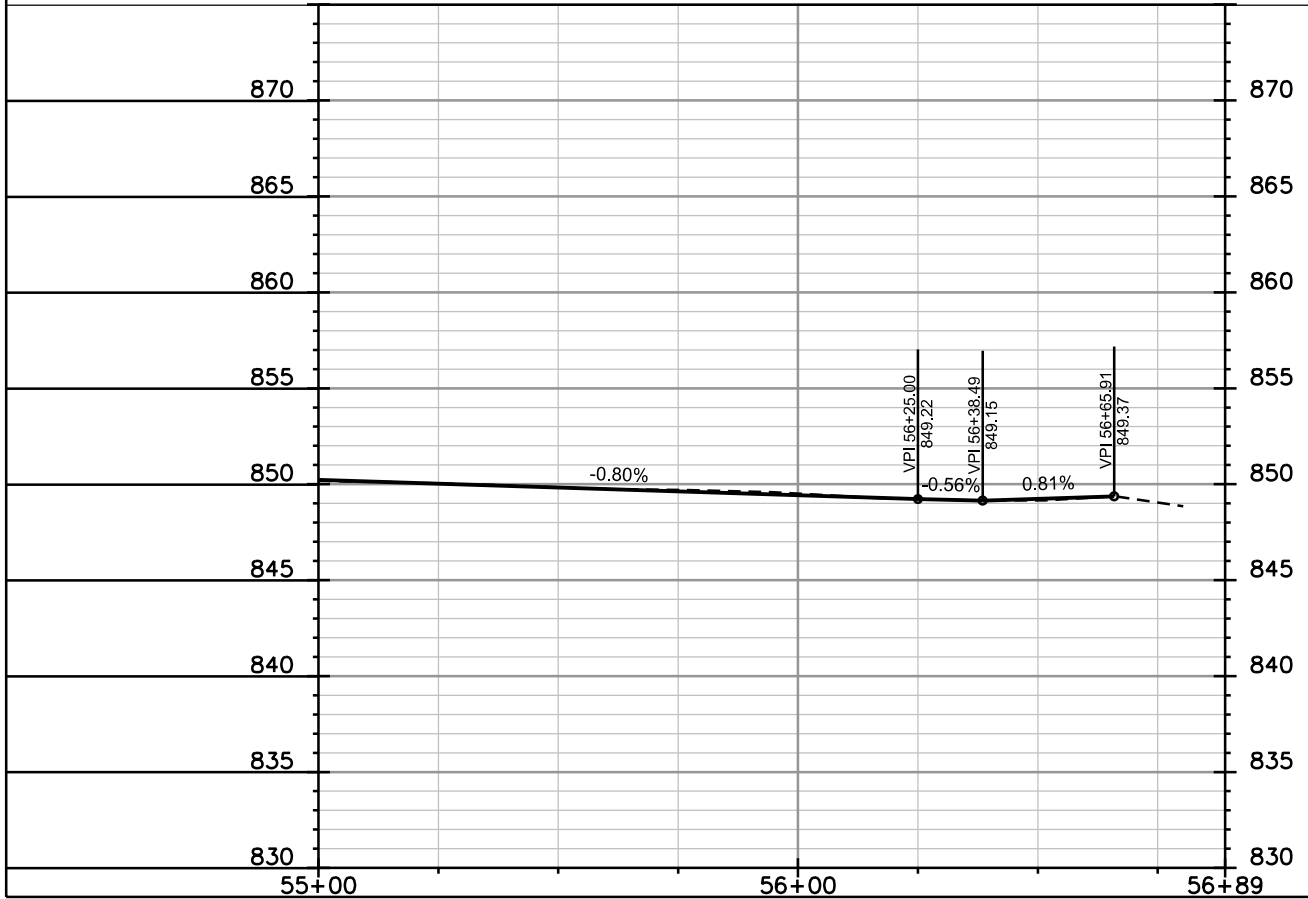
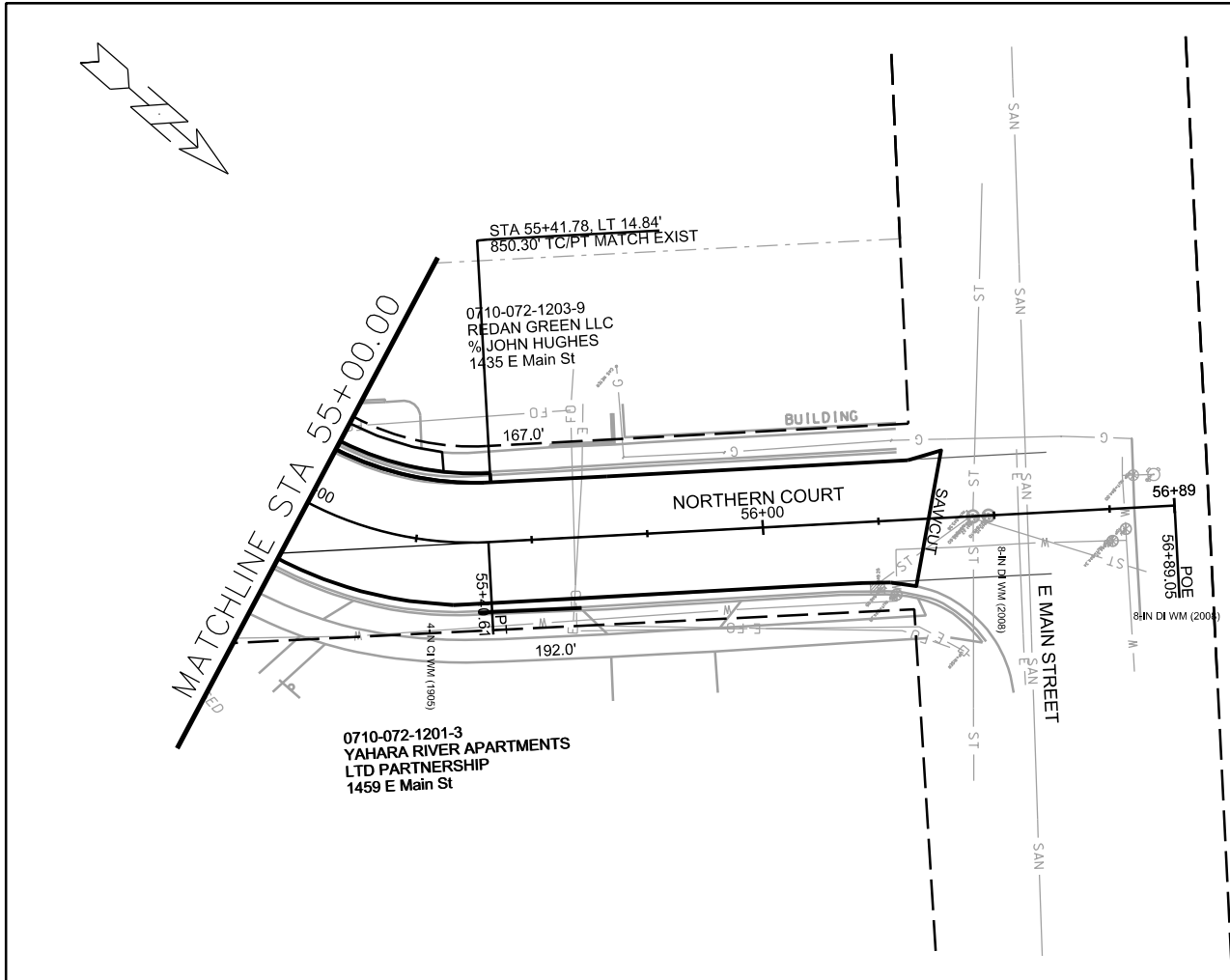
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0710-072-1103-1
YAHARA SQUARE ASSOCIATES
% JEROME J. MULLINS
1435 E Washington Ave

0710-072-1203-9
REDAN GREEN LLC
% JOHN HUGHES
1435 E Main St

0710-072-1201-3
YAHARA RIVER APARTMENTS
LTD PARTNERSHIP
1459 E Main St



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

ADD 03/31/2016 ELD

Concrete Walk

SAN

SAN

SAN

6-IN C.I. (1947)

11+00

12+00

HOLLY AVENUE

12"W

12"W

12"W

12"W

PROVIDE 2' CURB CUT AND 3" CLEAR STONE (TYP) (GRADE AS NECESSARY)

STA 11+44.44, RT 16.46'
988.69'

STA 11+59.44, RT 16.47'
989.53'

STA 11+53.86, RT 22.03'
987.65'

STA 11+47.59, RT 19.59'
987.65'

STA 11+51.02, RT 23.68'
987.65'

STA 11+44.44, RT 29.27'
989.38'

STA 11+59.44, RT 29.27'
990.07'

0709-291-1909-2
GABRIEL, RICHARD B
& MARY ELLEN GABRIEL
537 Holly Ave

MATCH EXISTING EDGE OF PRIVATE RAIN GARDEN

ALL GARDEN LIMITS TO BE 1FT OFF SIDEWALK AND BACK OF CURB. SLOPES TO BE 3:1. WORK PER S.D.D. 2.09

PLOT SCALE: _____

PLOT NAME: _____

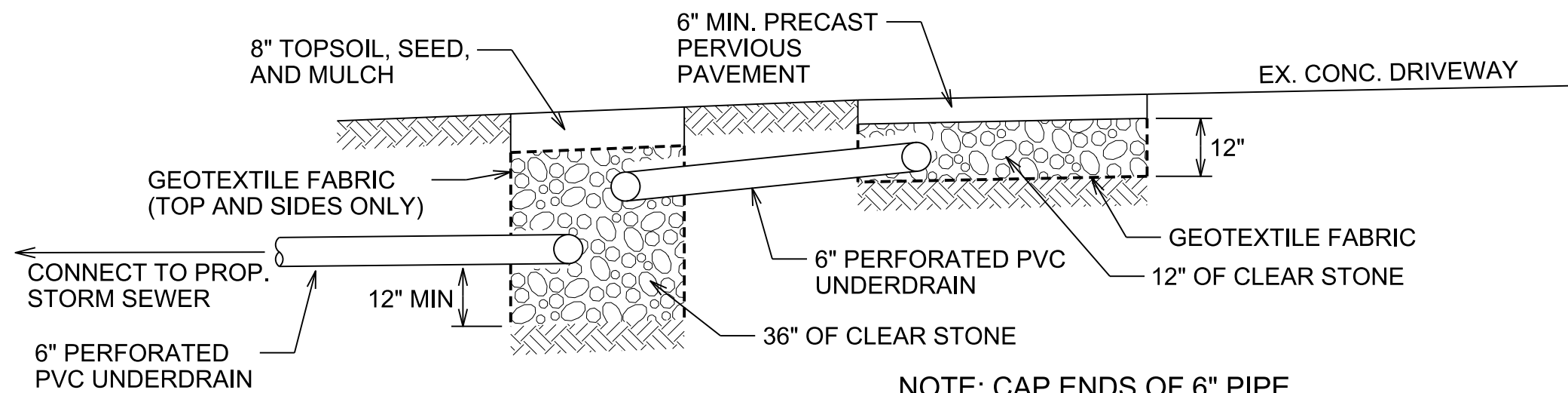
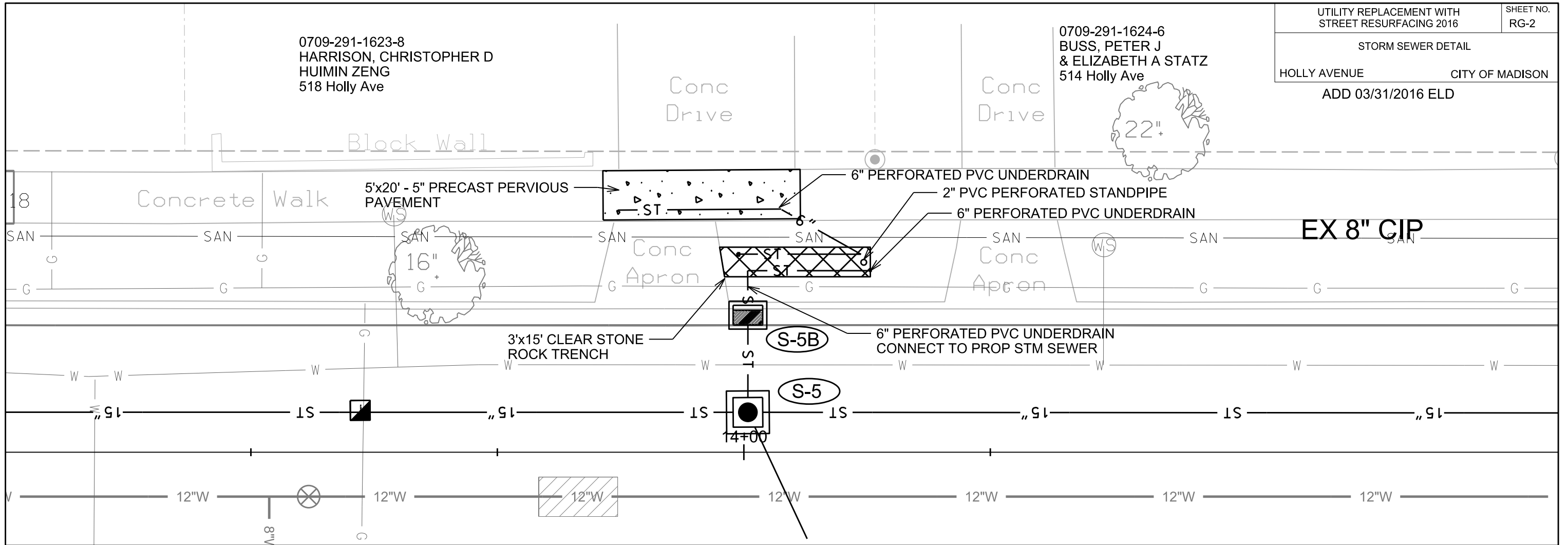
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0709-291-1623-8
 HARRISON, CHRISTOPHER D
 HUIMIN ZENG
 518 Holly Ave

0709-291-1624-6
 BUSS, PETER J
 & ELIZABETH A STATZ
 514 Holly Ave

| | |
|---|-------------------|
| UTILITY REPLACEMENT WITH STREET RESURFACING 2016 | SHEET NO. RG-2 |
| STORM SEWER DETAIL | |
| HOLLY AVENUE | CITY OF MADISON |
| ADD 03/31/2016 ELD | |



NOTE: CAP ENDS OF 6" PIPE

PROFILE VIEW

PLOT SCALE: _____

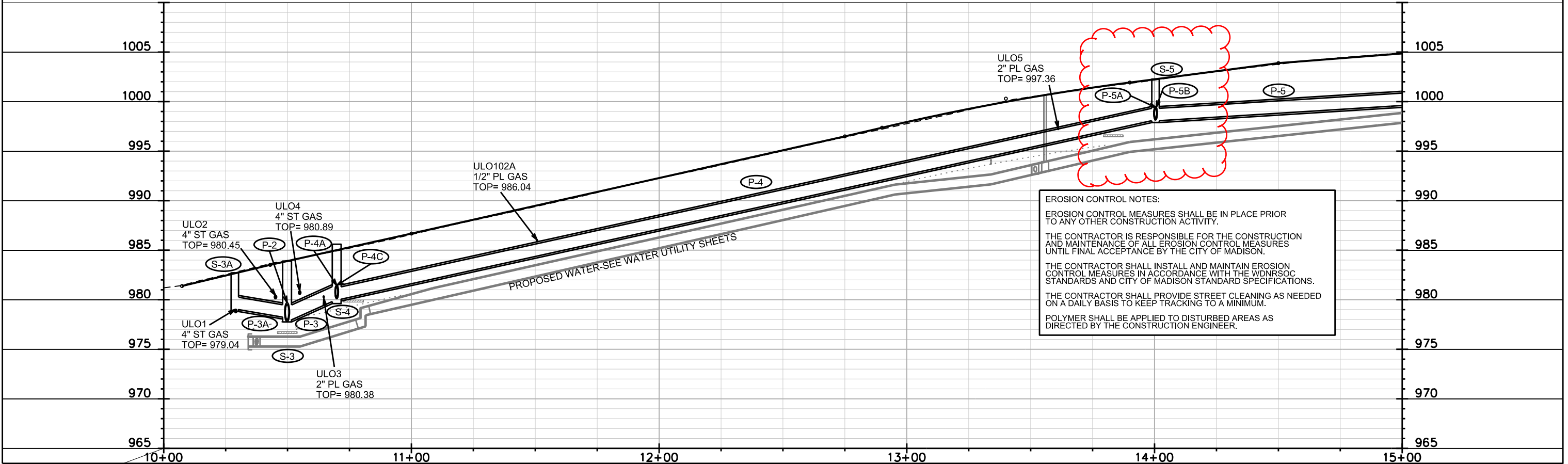
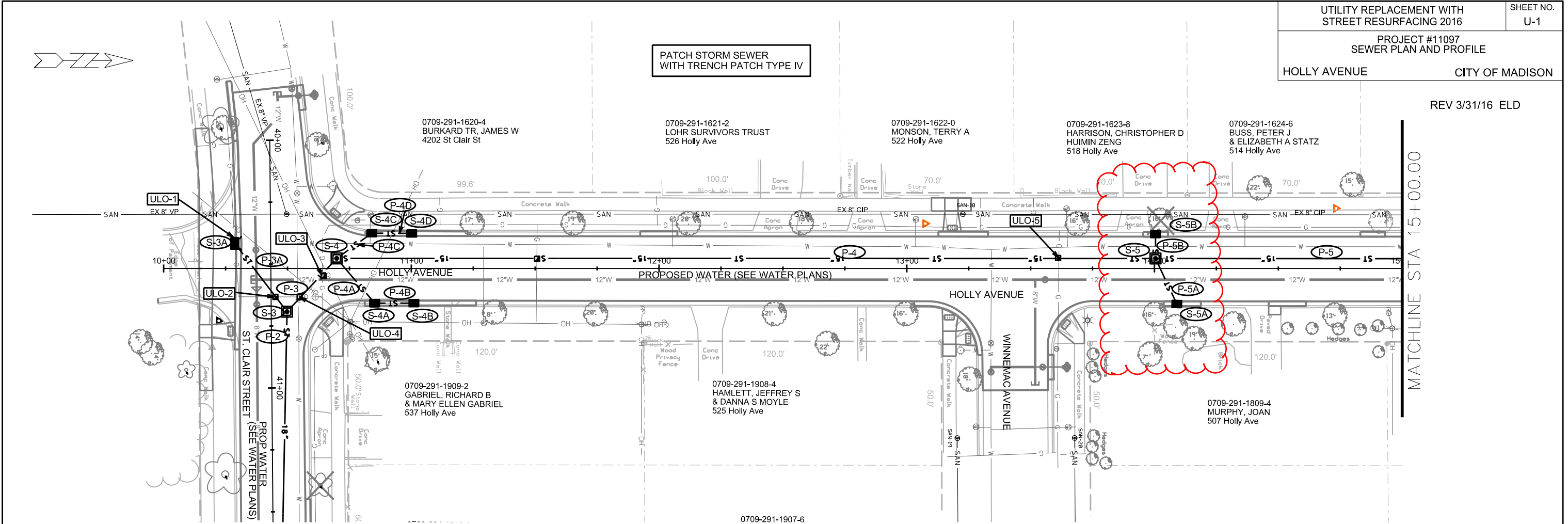
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REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV 3/31/16 ELD

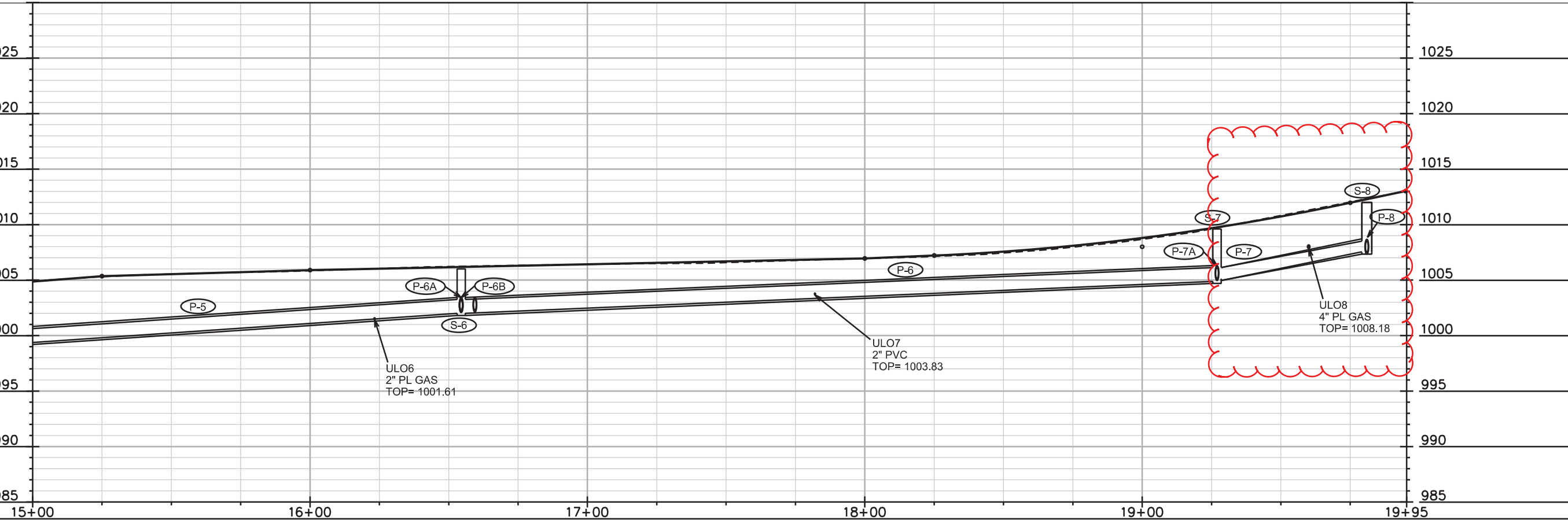
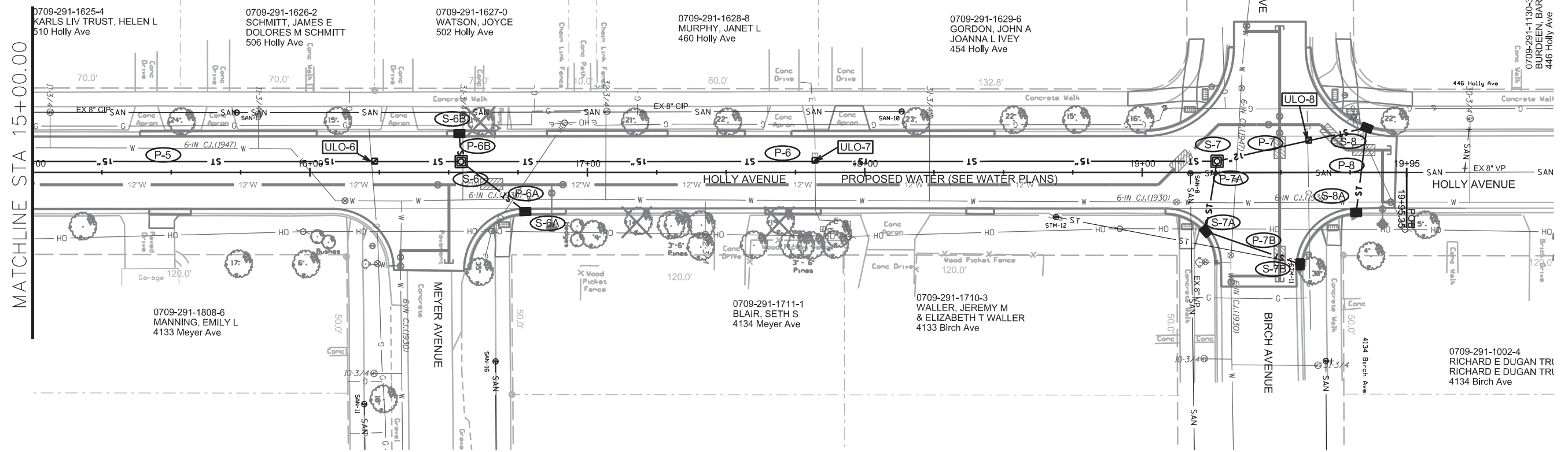
PATCH STORM SEWER WITH TRENCH PATCH TYPE IV



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



PATCH STORM SEWER WITH TRENCH PATCH TYPE IV

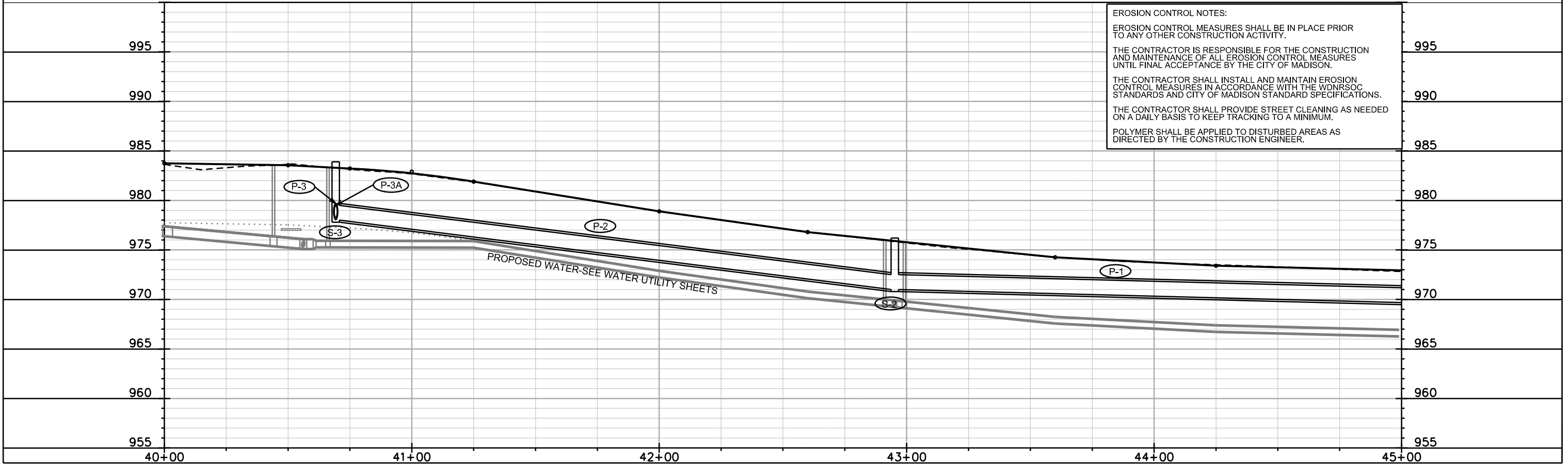
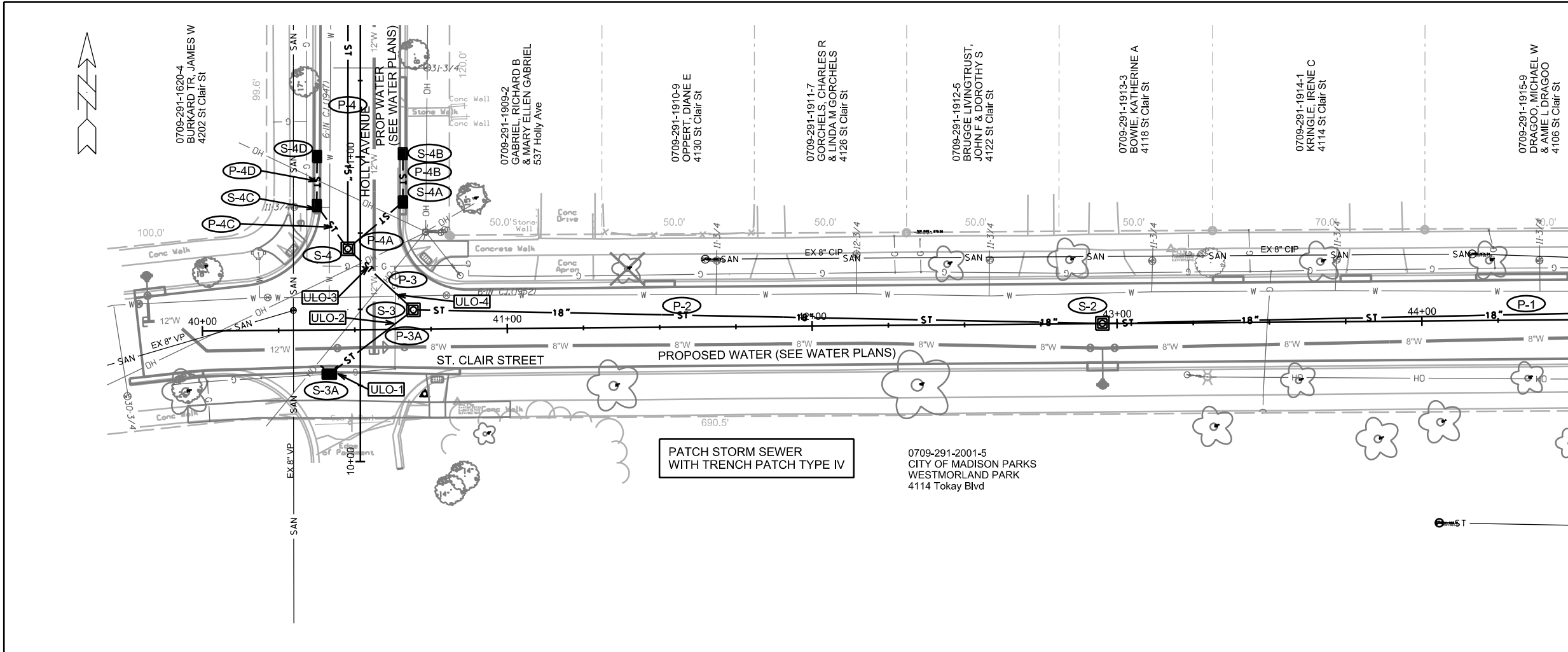


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

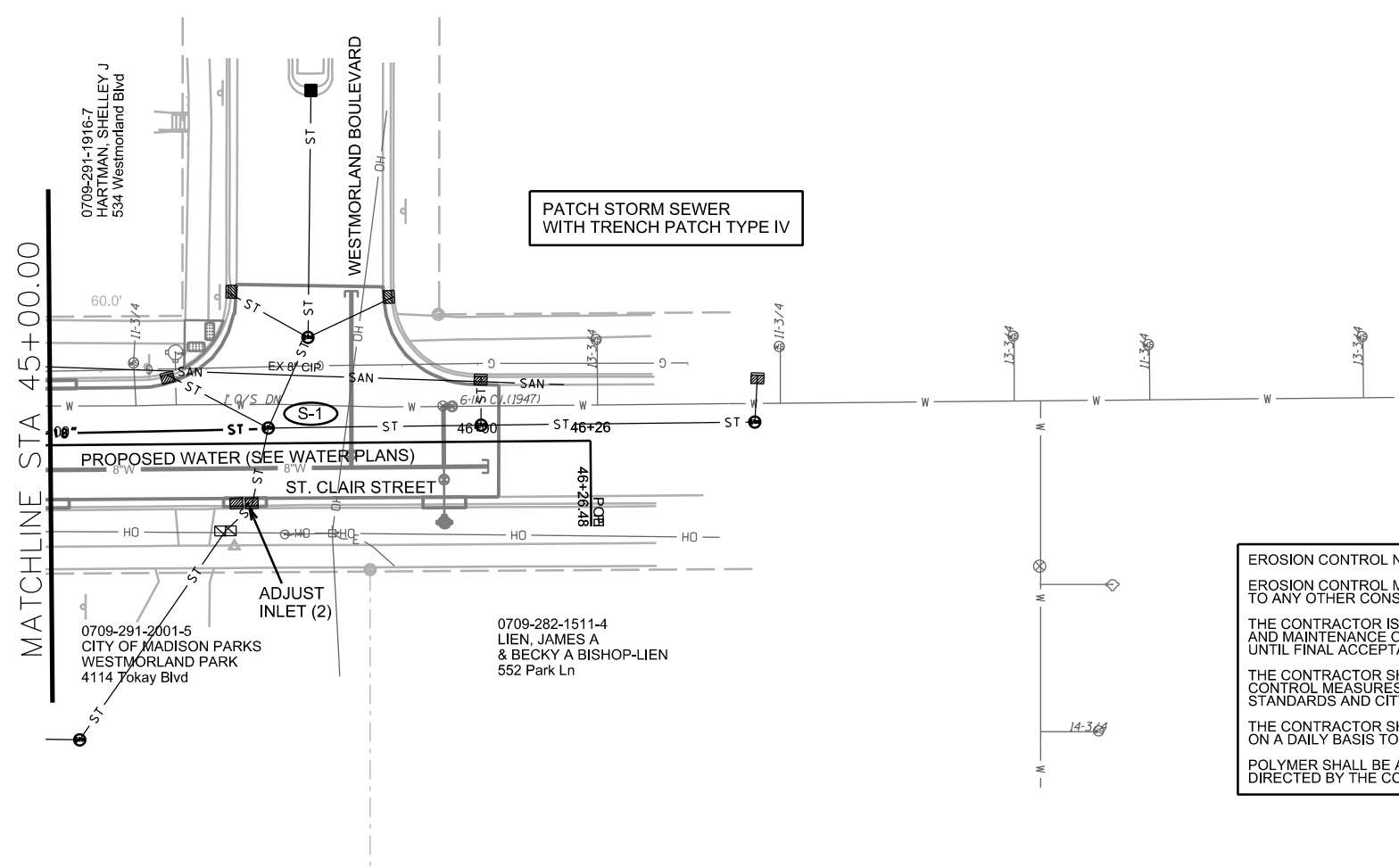


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



EROSION CONTROL NOTES:

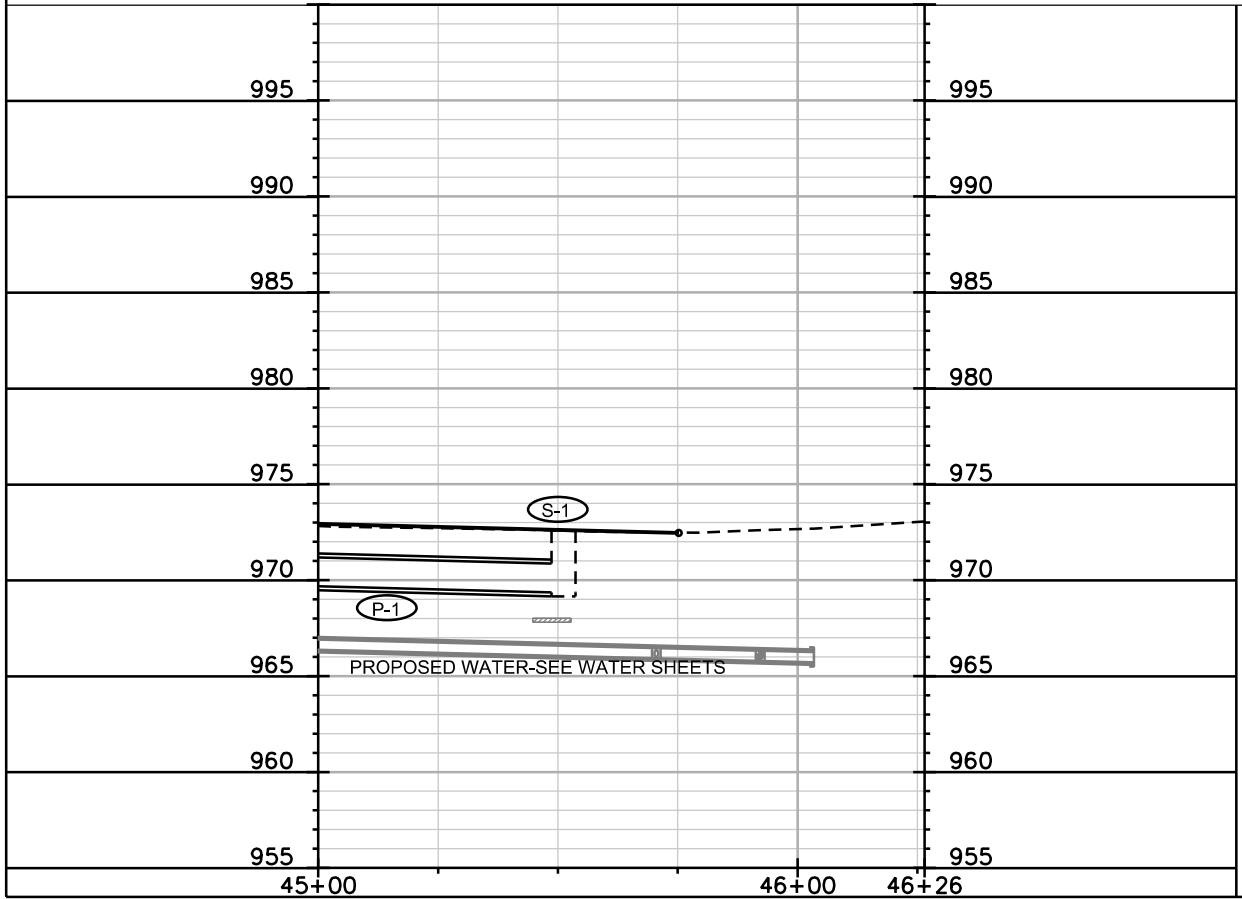
EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

* REVISED 03/16/2016 ELD
 ++ REVISED 03/31/2016 ELD

| | |
|---|------------------|
| UTILITY REPLACEMENT WITH STREET RESURFACING 2016 | SHEET NO. U-5 |
| PROJECT NO. 11097 | |
| HOLLY AVE STORM SEWER SCHEDULE | CITY OF MADISON |

STRUCTURES

| STRUC. NO. | STATION | LOCATION (OFFSET) | TYPE | TOP OF CASTING | E.I. | DEPTH | NOTES |
|-------------------------|-----------------|-------------------|----------------------|----------------|----------------|-------|----------------------|
| St. Clair Street | | | | | | | |
| S-1 | 45+51.17 | LT-3.40 | STM TAP | - | 969.36 | - | TAP EX AS 3858-003 |
| S-2 | 42+95.18 | CL | 3X3 SAS | 976.19 | 971.00 | 5.19 | W/ R-1550 |
| S-3 | 40+69.27 | LT-6.35 | 3X3 SAS | 983.50 | 978.00 | 5.50 | W/ R-1550 |
| S-3A | 40+41.53 | RT-14.47 | TERRACE INLET TYPE 3 | 982.71 | 979.00 | 3.71 | (1) |
| Holly Avenue | | | | | | | |
| S-4 | 10+69.84 | LT-4.00 | 3X3 SAS | 984.80 | 979.79 | 5.01 | W/ R-1550 |
| S-4A | 10+85.36 | RT-14.50 | H INLET | 985.29 | 981.11 | 4.18 | W/ R-3067-7004-V |
| S-4B | 11+01.08 | RT-14.50 | H INLET | 986.21 | 981.82 | 4.39 | W/ R-3067-7004-V |
| S-4C | 10+84.03 | LT-14.50 | H INLET | 985.52 | 981.52 | 4.00 | W/ R-3067-7004-V |
| S-4D | 11+00.00 | LT-14.50 | H INLET | 986.25 | 982.25 | 4.00 | W/ R-3067-7004-V |
| ++ S-5 | 14+00.00 | LT-4.00 | 3X3 SAS | 1002.27 | 998.07 | 4.20 | W/ R-1550 |
| ++ S-5A | 14+09.00 | RT-14.50 | H INLET | 1001.90 | 998.74 | 3.16 | W/ R-3067-7004-V |
| ++ S-5B | 14+00.00 | LT-14.50 | H INLET | 1002.18 | 998.58 | 3.60 | W/ R-3067-7004-V |
| S-6 | 16+54.65 | LT-4.00 | 3X3 SAS | 1006.00 | 1002.00 | 4.00 | W/ R-1550 |
| S-6A | 16+77.63 | RT-14.50 | H INLET | 1006.16 | 1002.44 | 3.72 | W/ R-3067-7004-V |
| S-6B | 16+53.90 | LT-12.50 | H INLET | 1005.80 | 1002.40 | 3.40 | W/ R-3067-7004-V |
| S-7 | 19+27.17 | LT-4.00 | 3X3 SAS | 1009.60 | 1004.88 | 4.72 | W/ R-1550 |
| S-7A | 19+22.90 | RT-21.31 | H INLET | 1008.73 | 1005.43 | 3.30 | W/ R-3067-7004-V |
| S-7B | 19+57.56 | RT-35.41 | H INLET | 1009.57 | 1006.10 | 3.47 | LP; W/ R-3067-7004-V |
| * S-8 | 19+80.98 | LT-16.05 | H INLET | 1012.00 | 1007.50 | 4.50 | W/ R-3067-7004-V |
| S-8A | 19.77.32 | RT-14.50 | H INLET | 1011.87 | 1008.30 | 3.57 | W/ R-3067-7004-V |

PIPES

| PIPE NO. | FROM (DNSTM) | TO (UPSTM) | PLAN LGTH (FT) | PIPE LGTH (FT) | DISCH. E.I. | INLET E.I. | SLOPE (%) | PIPE SIZE | TYPE | NOTES |
|----------|--------------|------------|----------------|----------------|----------------|----------------|--------------|-----------|------|-------|
| P-1 | S-1 | S-2 | 256 | 252 | 969.36 | 971.00 | 0.65% | 18" | RCP | - |
| P-2 | S-2 | S-3 | 226 | 223 | 971.00 | 978.00 | 3.14% | 18" | RCP | - |
| P-3 | S-3 | S-4 | 29 | 25 | 978.00 | 979.79 | 7.08% | 18" | RCP | - |
| P-3A | S-3 | S-3A | 35 | 31 | 978.25 | 979.00 | 2.40% | 15" | RCP | - |
| ++ P-4 | S-4 | S-5 | 331 | 328 | 980.04 | 998.07 | 5.50% | 15" | RCP | - |
| P-4A | S-4 | S-4A | 24 | 20 | 980.29 | 981.11 | 4.01% | 12" | RCP | - |
| P-4B | S-4A | S-4B | 16 | 13 | 981.11 | 981.82 | 5.56% | 12" | RCP | - |
| P-4C | S-4 | S-4C | 17 | 14 | 980.29 | 981.52 | 8.84% | 12" | RCP | - |
| P-4D | S-4C | S-4D | 16 | 13 | 981.52 | 982.25 | 5.58% | 12" | RCP | - |
| ++ P-5 | S-5 | S-6 | 251 | 254 | 998.07 | 1002.00 | 1.57% | 15" | RCP | - |
| ++ P-5A | S-5 | S-5A | 20 | 18 | 998.32 | 998.74 | 2.40% | 12" | RCP | - |
| ++ P-5B | S-5 | S-5B | 10 | 7 | 998.32 | 998.58 | 3.54% | 12" | RCP | - |
| P-6 | S-6 | S-7 | 272 | 269 | 1002.00 | 1004.88 | 1.07% | 15" | RCP | - |
| P-6A | S-6 | S-6A | 29 | 26 | 1002.25 | 1002.44 | 0.74% | 12" | RCP | - |
| P-6B | S-6 | S-6B | 10 | 8 | 1002.25 | 1002.40 | 1.97% | 12" | RCP | - |
| * P-7 | S-7 | S-8 | 55 | 52 | 1005.13 | 1007.50 | 4.56% | 12" | RCP | - |
| P-7A | S-7 | S-7A | 26 | 23 | 1005.13 | 1005.43 | 1.32% | 12" | RCP | - |
| P-7B | S-7A | S-7B | 36 | 33 | 1005.43 | 1006.10 | 2.00% | 12" | RCP | - |
| * P-8 | S-8 | S-8A | 31 | 29 | 1007.50 | 1008.30 | 2.79% | 12" | RCP | - |

ULO SCHEDULE

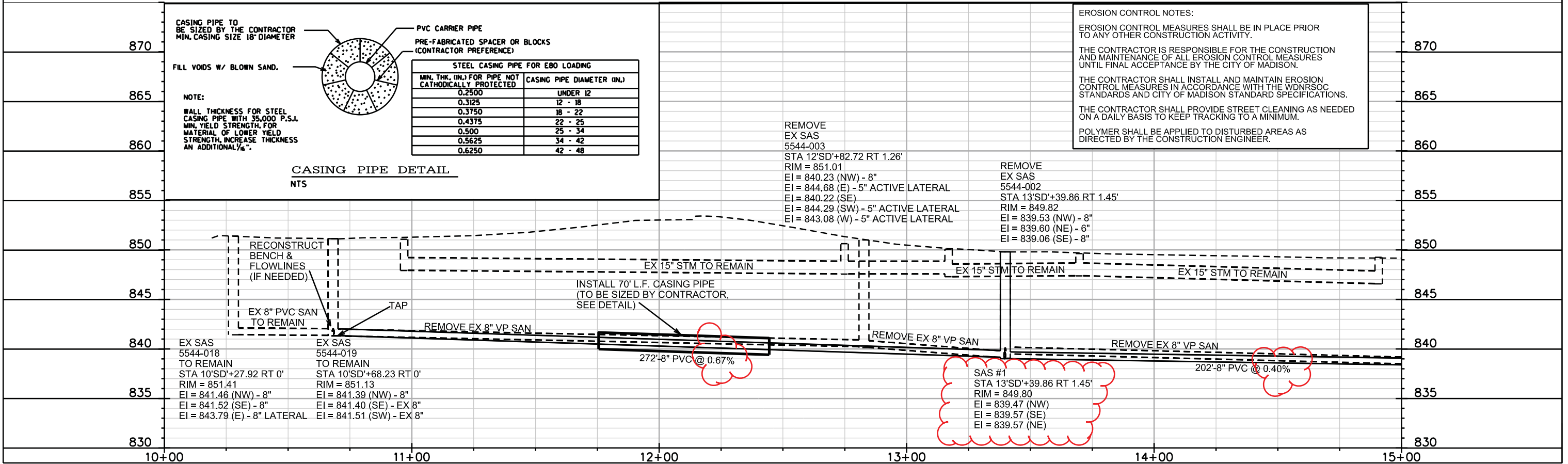
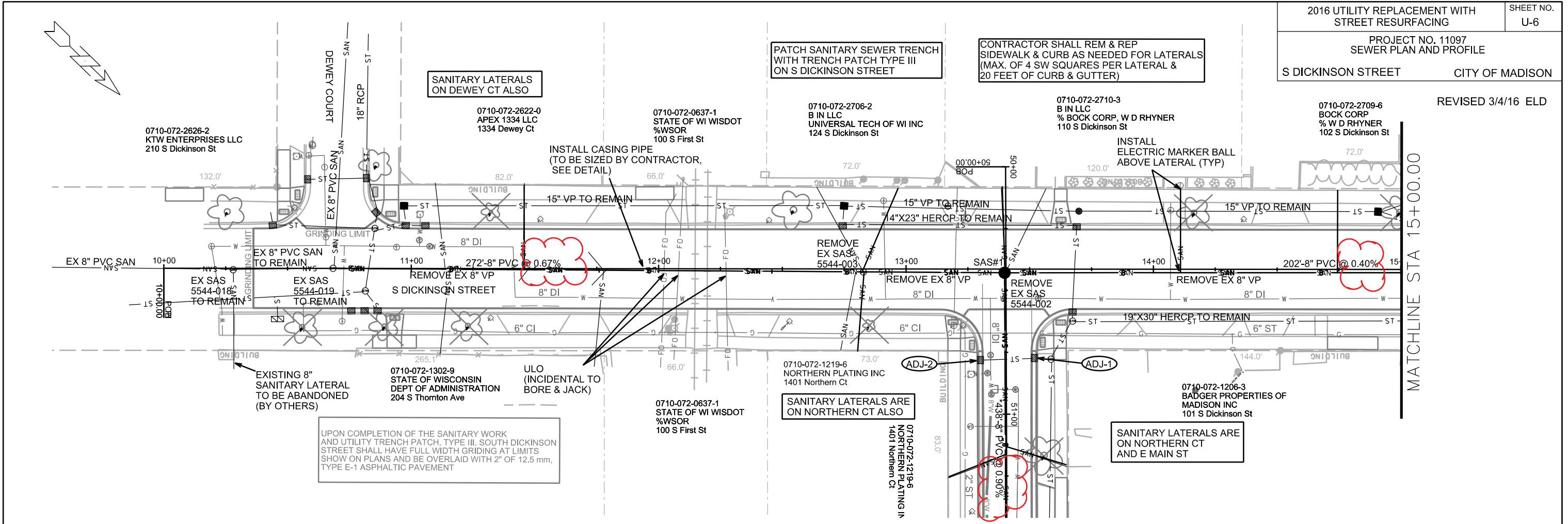
| ID NO. | STATION | LOCATION (OFFSET) | TYPE | ELEVATION TOP | NOTES |
|-----------------|-----------------|-------------------|---------------------------------|----------------|-----------------------------|
| ULO-1 | 40+41.53 | RT-14.47 | GAS (4" ST) | 979.04 | GAS TO BE RELOCATED |
| ULO-2 | 40+63.12 | LT-1.80 | GAS (4" ST) | 980.45 | NO CONFLICT |
| ULO-3 | 10+63.98 | RT-3.03 | GAS (2" PL) | 980.38 | GAS TO BE RELOCATED |
| ULO-4 | 40+63.45 | LT-11.57 | GAS (4" ST) | 980.89 | NO CONFLICT |
| ULO-5 | 13+61.32 | LT-4.00 | GAS (2" PL) | 997.36 | GAS TO BE RELOCATED |
| ULO-6 | 16+22.30 | LT-4.00 | GAS (2" PL) | 1001.61 | GAS TO BE RELOCATED |
| ULO-7 | 17+82.00 | LT-4.00 | ELEC & TELE (2" PVC) | 1003.83 | ELEC TO BE RELOCATED |
| ULO-8 | 19+59.80 | LT-11.55 | GAS (4" PL) | 1008.18 | STORM SEWER ADJUSTED |
| ULO-101A | 43+52.00 | LT-1.00 | GAS (2" PL) | 970.92 | GAS TO BE RELOCATED |
| ULO-102A | 11+51+00 | LT-4.00 | GAS (1/2" PL) | 986.04 | GAS TO BE RELOCATED |

STANDARD NOTES:

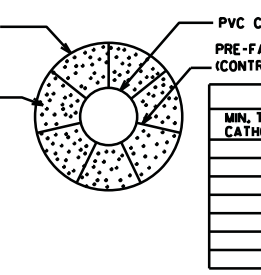
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- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III 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.

SPECIFIC NOTES

(1) S-3A STA/OFFSET TO CENTER OF STRUCTURE. TOP OF GRATE 0.2' BELOW TOC



CASING PIPE TO BE SIZED BY THE CONTRACTOR MIN. CASING SIZE 18\"/>



STEEL CASING PIPE FOR E80 LOADING

| MIN. THK. (IN.) FOR PIPE NOT CATHODICALLY PROTECTED | CASING PIPE DIAMETER (IN.) |
|---|----------------------------|
| 0.2500 | UNDER 12 |
| 0.3125 | 12 - 18 |
| 0.3750 | 18 - 22 |
| 0.4375 | 22 - 25 |
| 0.500 | 25 - 34 |
| 0.5625 | 34 - 42 |
| 0.6250 | 42 - 48 |

CASING PIPE DETAIL NTS

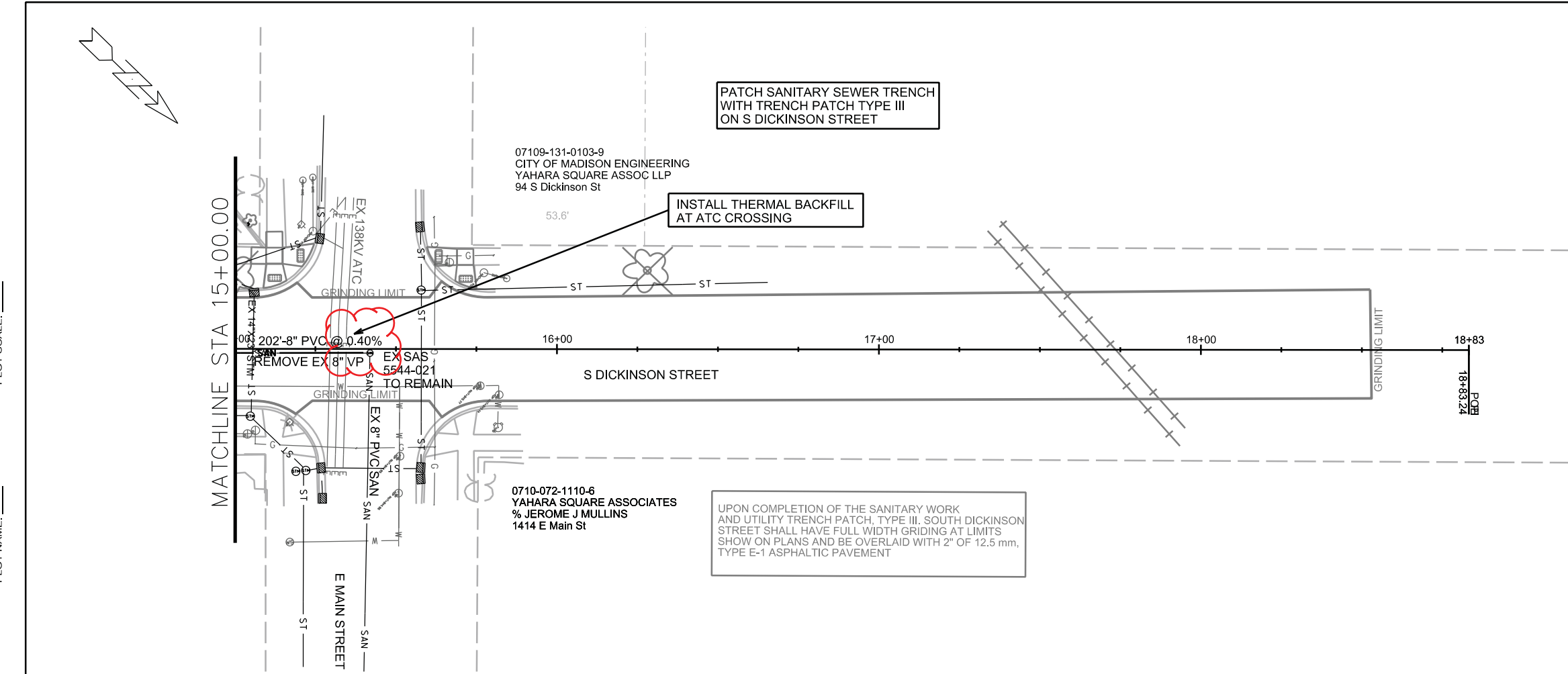
EROSION CONTROL NOTES:
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PLOT SCALE:

REV. DATE:

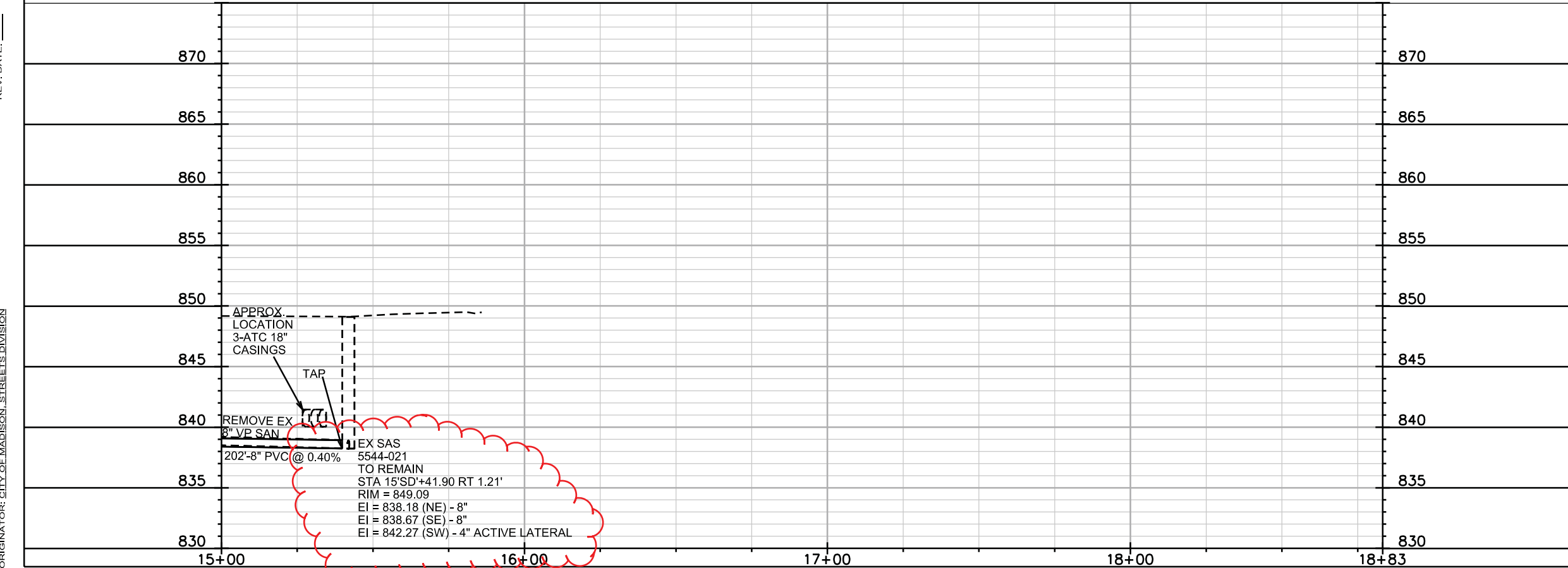
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 3/4/16 ELD



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UPON COMPLETION OF THE SANITARY WORK AND UTILITY TRENCH PATCH, TYPE III, SOUTH DICKINSON STREET SHALL HAVE FULL WIDTH GRIDING AT LIMITS SHOW ON PLANS AND BE OVERLAID WITH 2" OF 12.5 mm, TYPE E-1 ASPHALTIC PAVEMENT



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

REV. 2/25/16 EEA

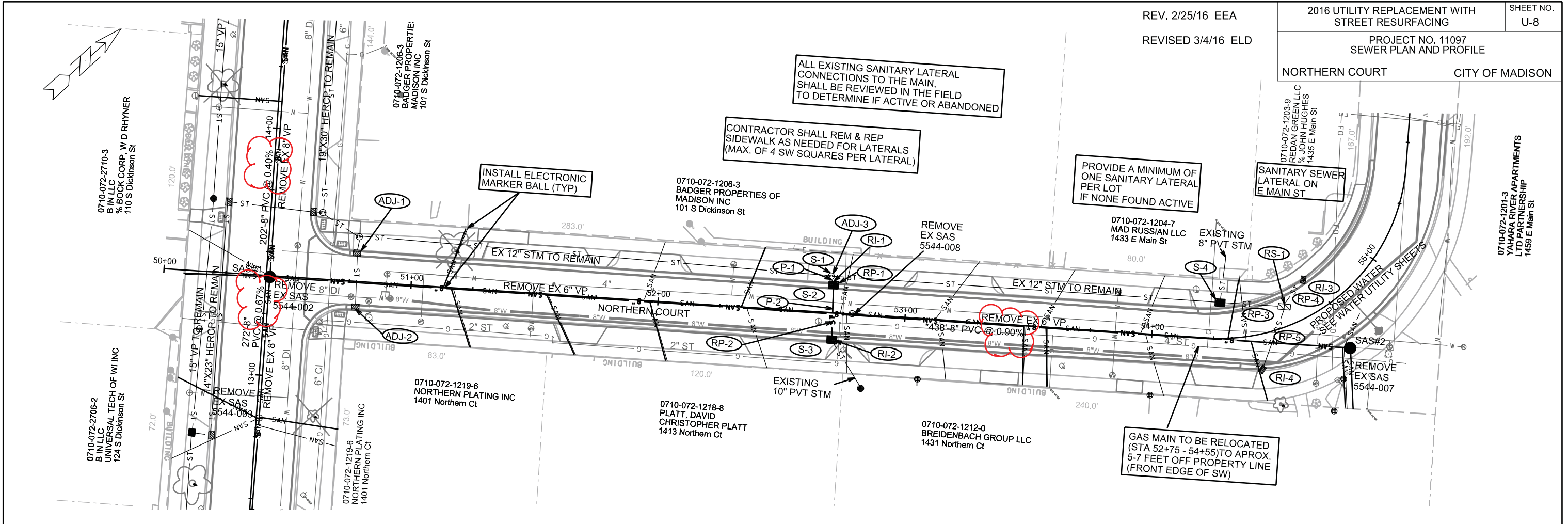
REVISED 3/4/16 ELD

2016 UTILITY REPLACEMENT WITH STREET RESURFACING

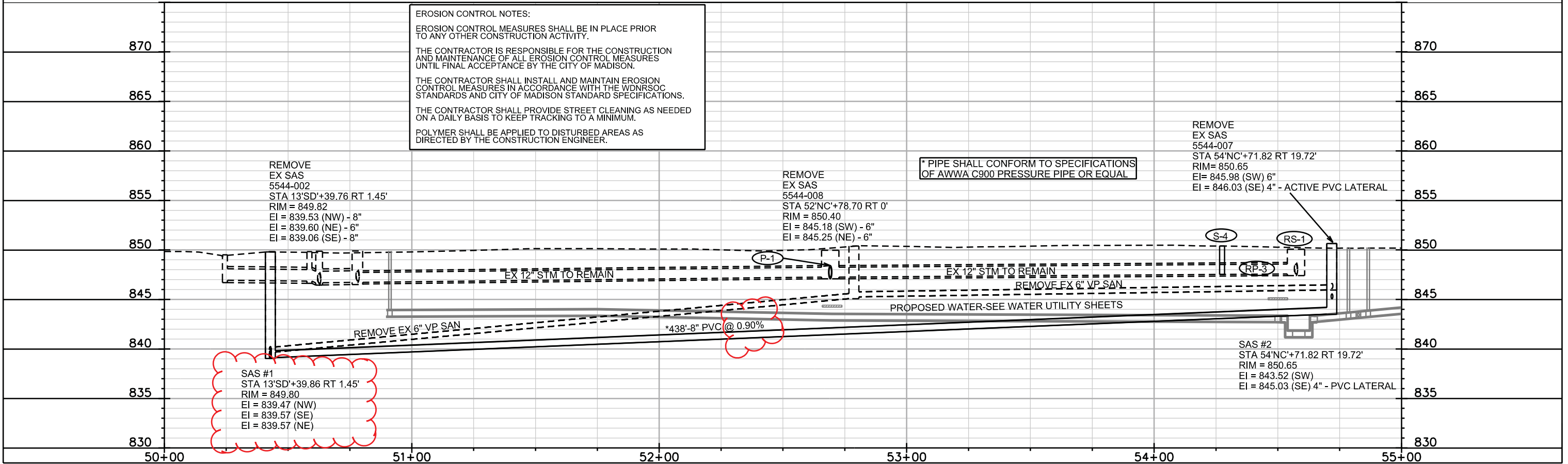
SHEET NO. U-8

PROJECT NO. 11097 SEWER PLAN AND PROFILE

NORTHERN COURT CITY OF MADISON



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PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SCHEDULE

ALIGNMENT CODES:

'NC' = NORTHERN COURT
'SD' = S DICKINSON ST

UTILITY REPLACEMENT WITH STREET
RESURFACING - 2016

SHEET NO.
U-9

PROJECT NO. 10838

S DICKINSON ST
SANITARY SEWER SCHEDULE

CITY OF MADISON

* REVISED 3/4/16 - ELD

PROPOSED SANITARY STRUCTURES

| SAS NO. | STATION | LOCATION (OFFSET) | TOP OF CASTING | E.I. | DEPTH | NOTES |
|---------|--------------|-------------------|----------------|---------------|--------------|-------|
| * SAS#1 | 13'SD'+39.86 | RT-1.45 | 849.80 | 839.47 | 10.33 | - |
| SAS#2 | 54'NC'+71.82 | RT-19.72 | 850.65 | 843.52 | 7.13 | - |

PROPOSED SANITARY PIPES

| FROM SAS (DWNSTRM) | TO SAS (UPSTREAM) | EI # (DWNSTRM) | EI # (UPSTRM) | PLAN LGTH (FT) | SLOPE (%) | SIZE (DIA) | PVC TYPE | NOTES |
|--------------------|-------------------|----------------|---------------|----------------|--------------|------------|-----------|-------|
| * SAS#1 | SAS#2 | 839.57 | 843.52 | 438 | 0.90% | 8" | AWWA C900 | - |
| * EX SAS 5544-021 | SAS#1 | 838.67 | 839.47 | 202 | 0.40% | 8" | SDR-35 | - |
| * SAS#1 | EX SAS 5544-019 | 839.57 | 841.39 | 272 | 0.67% | 8" | SDR-35 | - |

SANITARY SEWER STRUCTURE REMOVALS

| STRUCTURE ID NO. | STATION | LOCATION (OFFSET) | NOTES |
|------------------|--------------|-------------------|-------|
| 5544-003 | 12'SD'+82.72 | RT-1.26 | - |
| 5544-002 | 13'SD'+39.86 | RT-1.45 | - |
| 5544-008 | 52'NC'+78.70 | CL | - |
| 5544-007 | 54'NC'+71.82 | RT-19.72 | - |

REMOVE SANITARY SEWER PIPE

| REMOVE FROM | REMOVE TO | LENGTH | SIZE | TYPE | NOTES |
|-----------------|-----------------|--------|------|------|-------|
| EX SAS 5544-019 | EX SAS 5544-003 | 215 | 8" | VP | - |
| EX SAS 5544-003 | EX SAS 5544-002 | 55 | 8" | VP | - |
| EX SAS 5544-002 | EX SAS 5544-021 | 199 | 8" | VP | - |
| EX SAS 5544-002 | EX SAS 5544-008 | 233 | 6" | VP | - |
| EX SAS 5544-008 | EX SAS 5544-007 | 201 | 6" | VP | - |

STORM SEWER SCHEDULE

| | | |
|--|-----------------|----------------|
| 2016 UTILITY REPLACEMENT WITH STREET RESURFACING | | SHEET NO. U-10 |
| PROJECT NO. 11097 | | |
| STORM SEWER SCHEDULE | | |
| NORTHERN COURT | CITY OF MADISON | |

STRUCTURES

| STRUC. NO. | STATION | LOCATION (OFFSET) | TYPE | TOP OF CASTING | E.I. | DEPTH | NOTES |
|------------|----------|-------------------|---------|----------------|--------|-------|--------------------------------------|
| S-1 | 52+69.30 | LT-14.93 | STM TAP | - | 847.25 | - | TAP EX AS 5544-053 |
| S-2 | 52+70.00 | LT-11.50 | H INLET | 849.76 | 847.27 | 2.49 | LP; FP; W/ R-3067-7004-VB |
| S-3 | 52+70.00 | RT-11.50 | H INLET | 849.76 | 847.38 | 2.38 | LP; FP; W/ R-3067-7004-VB; (1) |
| S-4 | 54+27.49 | LT-14.42 | H INLET | 850.40 | 847.52 | 2.88 | FP; W/ R-1878-B7L W/ 4" CASTING; (1) |

PIPES

| PIPE NO. | FROM (DNSTM) | TO (UPSTM) | PLAN LGTH (FT) | PIPE LGTH (FT) | DISCH. E.I. | INLET E.I. | SLOPE (%) | PIPE SIZE | TYPE | NOTES |
|----------|--------------|------------|----------------|----------------|-------------|------------|-----------|-----------|------|-------|
| P-1 | S-1 | S-2 | 4 | 1 | 847.25 | 847.27 | 0.50% | 12" | RCP | - |
| P-2 | S-2 | S-3 | 22 | 20 | 847.27 | 847.38 | 0.50% | 12" | RCP | - |

STORM STRUCTURE REMOVALS

| STRUC. NO. | ID NO. | STATION | LOCATION (OFFSET) | TYPE | NOTES |
|------------|-------------|----------|-------------------|---------------|-------|
| RI-1 | IN 5544-052 | 52+70.11 | LT-11.10 | H INLET | - |
| RI-2 | IN 5544-051 | 52+71.08 | RT-10.83 | H INLET | - |
| RI-3 | IN 5544-055 | 54+71.00 | LT-13.64 | H INLET | - |
| RI-4 | IN 5544-050 | 54+42.30 | RT-13.89 | H INLET | - |
| RS-1 | AS 5544-054 | 54+57.20 | LT-7.75 | 5X7 STRUCTURE | - |

STORM PIPE REMOVALS

| PIPE REMOVAL NO. | REMOVE FROM | REMOVE TO | LENGTH (FT) | PAID (Y/N) | SIZE | TYPE | NOTES |
|------------------|-------------|-----------|-------------|------------|------|------|-------|
| RP-1 | S-1 | RI-1 | 5 | N | 12" | VP | - |
| RP-2 | RI-1 | RI-2 | 22 | N | 12" | VP | - |
| RP-3 | S-4 | RS-1 | 23 | Y | 12" | RCP | - |
| RP-4 | RI-3 | RS-1 | 13 | Y | 12" | RCP | - |
| RP-5 | RI-4 | RS-1 | 26 | Y | 12" | RCP | - |

STORM STRUCTURE ADJUSTS

| STRUC. NO. | ID NO. | STATION | LOCATION (OFFSET) | EXISTING TOP OF CASTING | PROPOSED TOP OF CASTING | NOTES |
|------------|-------------|----------|-------------------|-------------------------|-------------------------|-------|
| ADJ-1 | IN 5544-021 | 50+78.00 | LT-12.26 | 849.67 | 849.73 | - |
| ADJ-2 | IN 5544-022 | 50+78.00 | RT-11.56 | 849.83 | 849.75 | - |
| ADJ-3 | AS 5544-053 | 52+69.30 | LT-14.93 | 849.96 | 850.15 | - |

SPECIFIC NOTES

(1) RECONNECT EXISTING PRIVATE PIPE

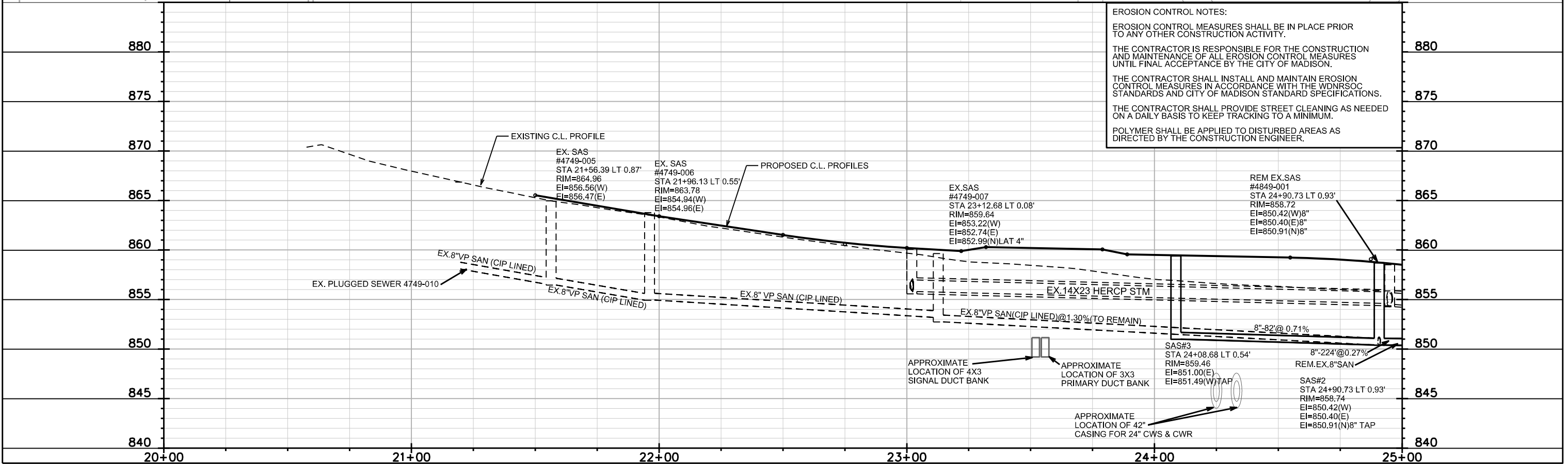
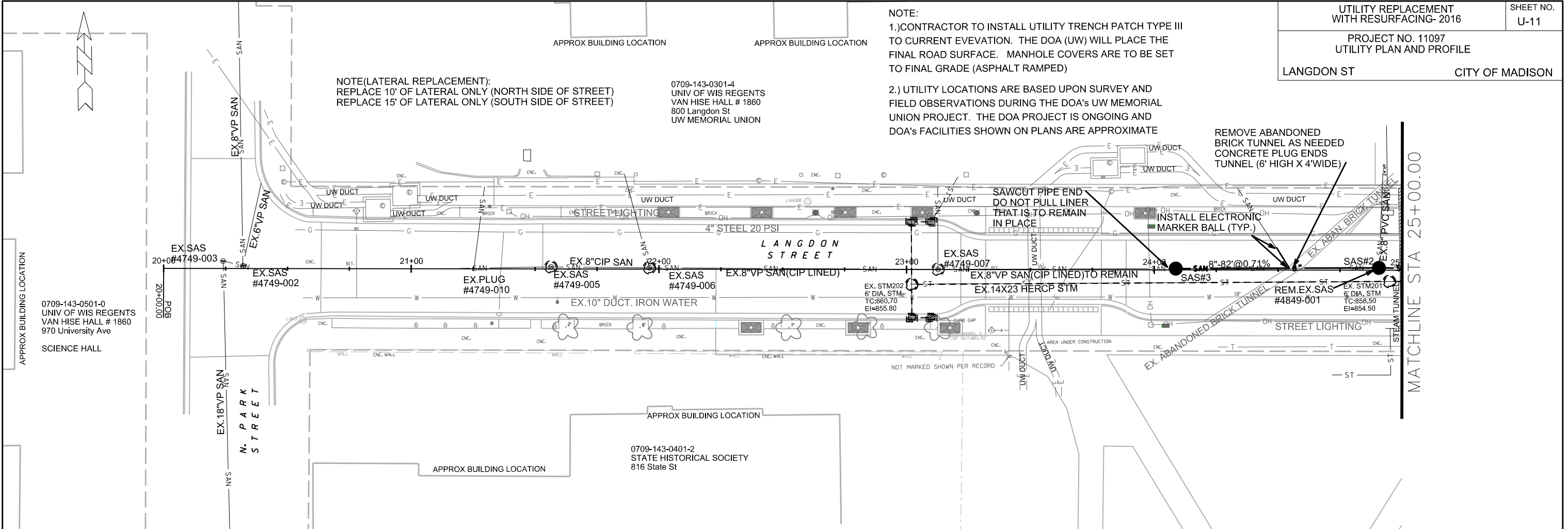
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NOTE:
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 2.) UTILITY LOCATIONS ARE BASED UPON SURVEY AND FIELD OBSERVATIONS DURING THE DOA'S UW MEMORIAL UNION PROJECT. THE DOA PROJECT IS ONGOING AND DOA'S FACILITIES SHOWN ON PLANS ARE APPROXIMATE

NOTE (LATERAL REPLACEMENT):
 REPLACE 10' OF LATERAL ONLY (NORTH SIDE OF STREET)
 REPLACE 15' OF LATERAL ONLY (SOUTH SIDE OF STREET)

0709-143-0301-4
 UNIV OF WIS REGENTS
 VAN HISE HALL # 1860
 800 Langdon St
 UW MEMORIAL UNION

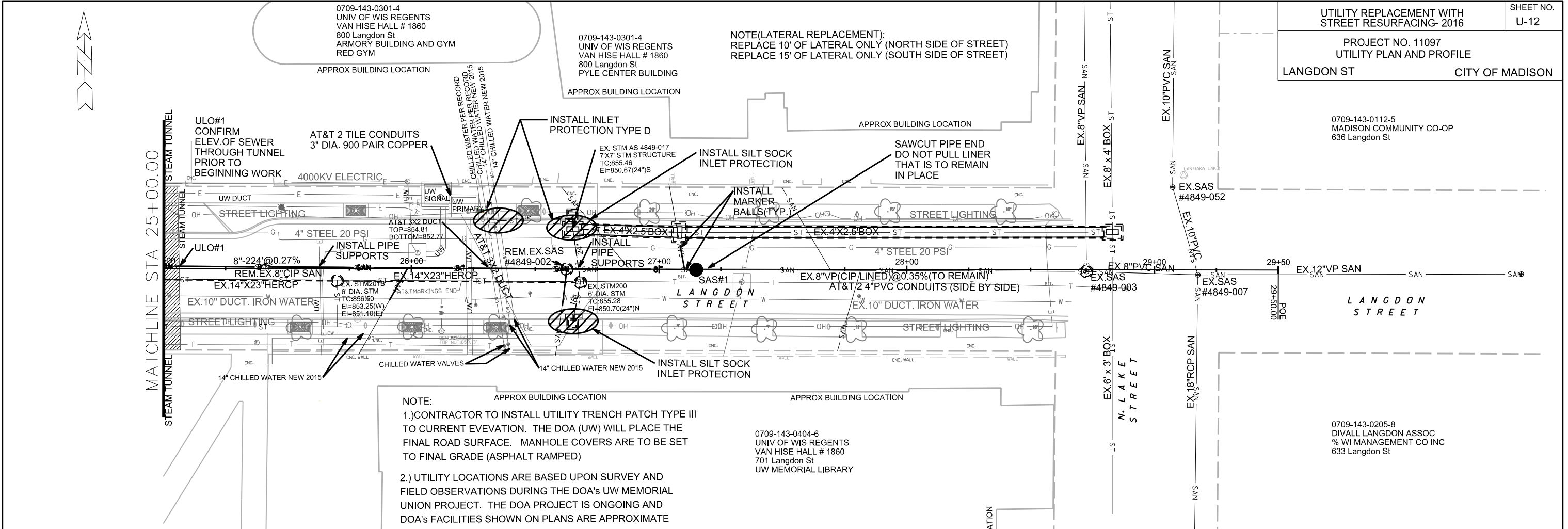


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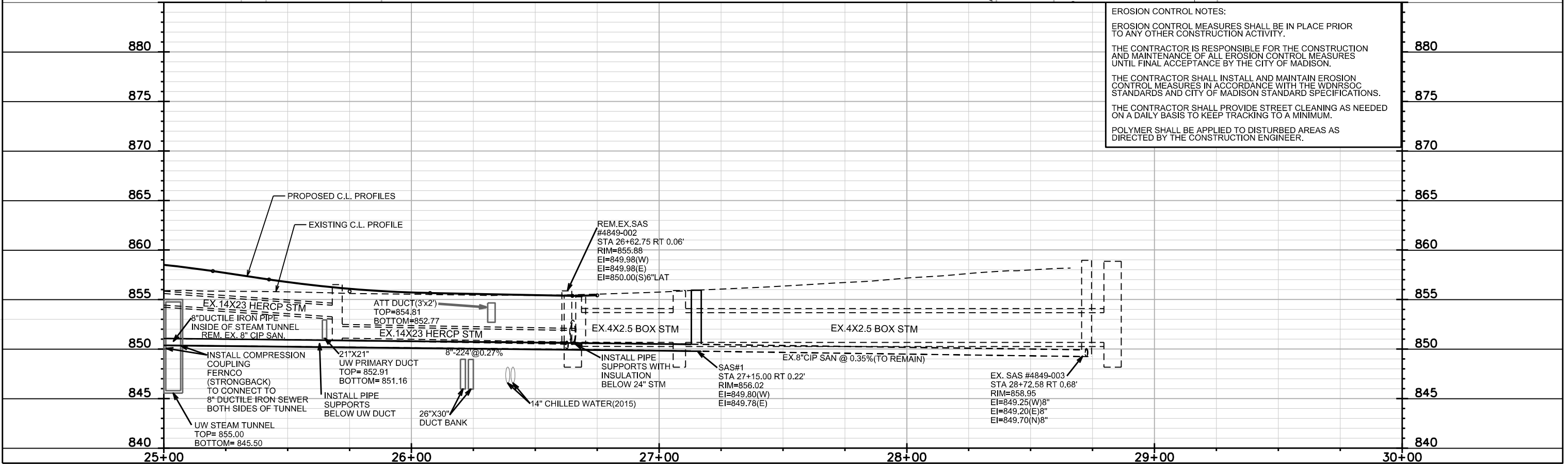
PLOT SCALE: _____
 PLOT NAME: _____
 REV. DATE: _____
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0709-143-0112-5
 MADISON COMMUNITY CO-OP
 636 Langdon St

0709-143-0205-8
 DIVALL LANGDON ASSOC
 % WI MANAGEMENT CO INC
 633 Langdon St



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SANITARY SEWER SCHEDULE

| | |
|---|-----------|
| UTILITY REPLACEMENT WITH STREET RESURFACING- 2016 | SHEET NO. |
| PROJECT NO. 11097 | U-13 |
| SANITARY SEWER SCHEDULE | |
| CITY OF MADISON | |

PROPOSED SANITARY STRUCTURES

| SAS NO. | STATION | LOCATION (OFFSET) | TOP OF CASTING | E.I. | DEPTH | NOTES |
|-----------------------|----------|-------------------|----------------|--------|-------|-------|
| LANGDON STREET | | | | | | |
| SAS #1 | 27+15.00 | RT-0.22 | 856.02 | 849.78 | 6.24 | |
| SAS #2 | 24+90.73 | LT-0.93 | 858.74 | 850.40 | 8.34 | |
| SAS #3 | 24+08.68 | LT-0.54 | 859.46 | 851.00 | 8.46 | |

PROPOSED SANITARY PIPES

| FROM (DNSTM) | TO (UPSTM) | DWNSTRM E.I. | UPSTRM E.I. | PLAN (PAY) LGTH (FT) | SLOPE (%) | PIPE SIZE | PVC TYPE | NOTES |
|-----------------------|------------|--------------|-------------|----------------------|-----------|-----------|----------|-------|
| LANGDON STREET | | | | | | | | |
| SAS#1 | SAS #2 | 849.80 | 850.40 | 224 | 0.27% | 8" | | |
| SAS#2 | SAS#3 | 850.42 | 851.00 | 82 | 0.71% | 8" | | |

REMOVE STRUCTURES

| SAS NO. | STATION | LOCATION (OFFSET) | TOP OF CASTING | E.I. | DEPTH | NOTES |
|-----------------------|----------|-------------------|----------------|--------|-------|-------|
| LANGDON STREET | | | | | | |
| EX.4849-002 | 26+62.75 | RT-0.06 | 855.88 | 849.98 | 5.90 | |
| EX.4849-001 | 24+90.73 | LT-0.73 | 858.72 | 850.40 | 8.32 | |

SANITARY SEWER REMOVALS AND ABANDONMENTS

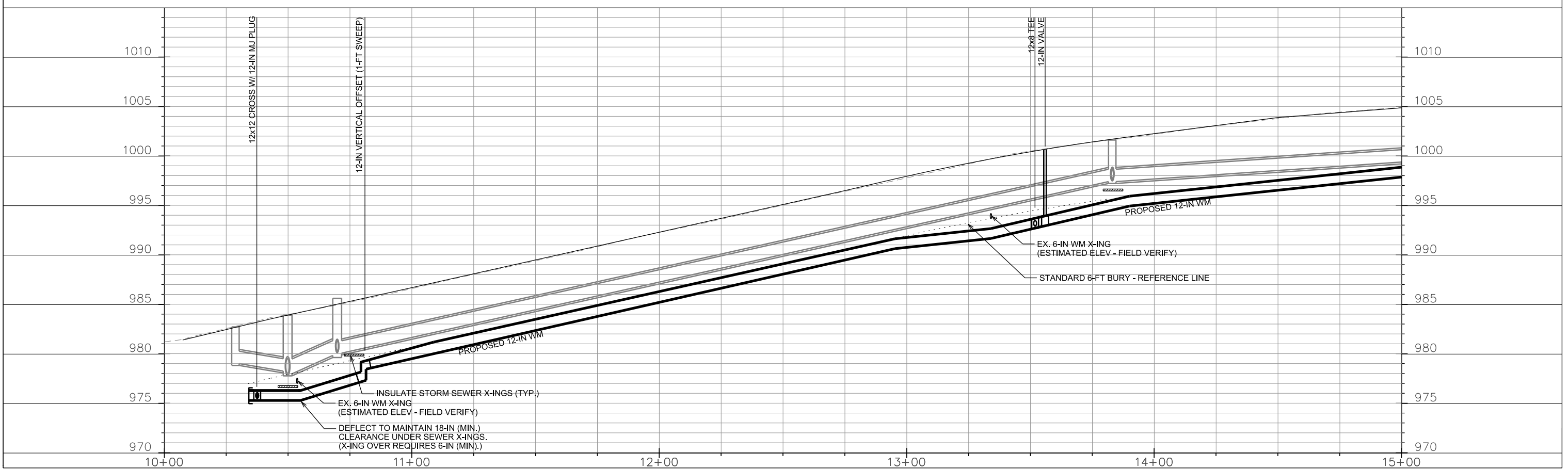
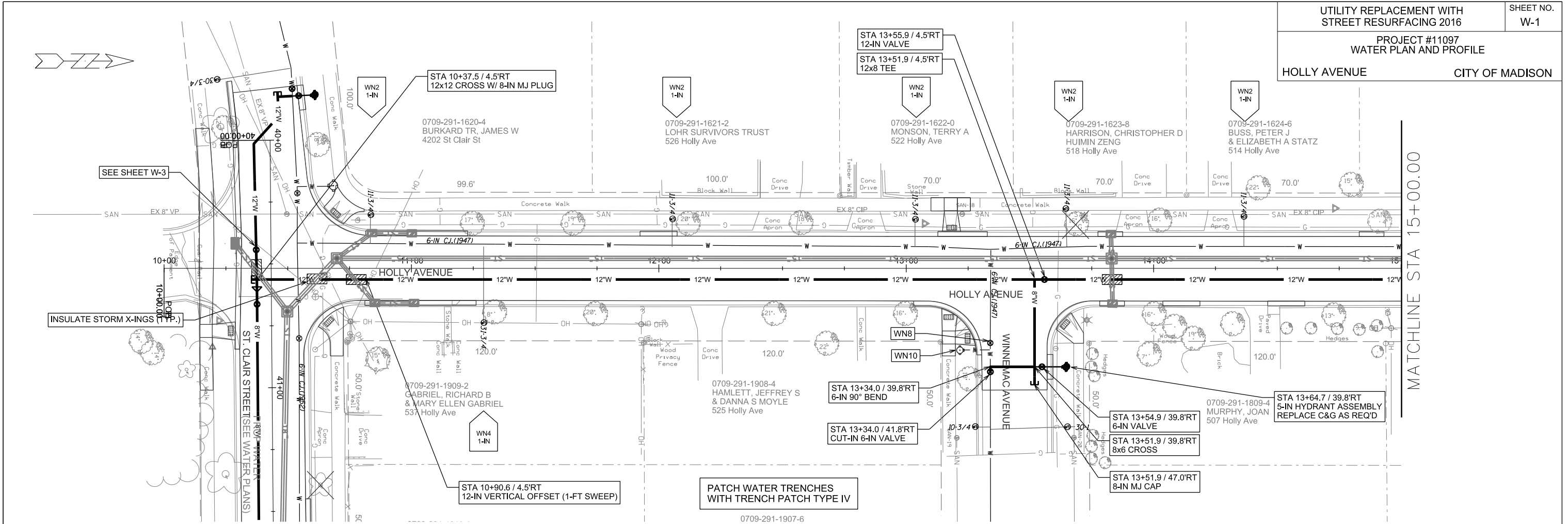
| FROM SAS (DWNSTRM) | TO SAS (UPSTREAM) | LENGTH Feet | PAID (Y/N) | SIZE (DIA in) | PIPE TYPE | NOTES |
|-----------------------|-------------------|-------------|------------|---------------|---------------|-------------|
| LANGDON STREET | | | | | | |
| SAS#1 | EX.4849-002 | | N | 8" | VP(CIP LINED) | REMOVE PIPE |
| EX.4849-002 | EX.4849-001 | | N | 8" | VP(CIP LINED) | REMOVE PIPE |
| EX.4849-001 | SAS#3 | | N | 8" | VP(CIP LINED) | REMOVE PIPE |

PIPE SUPPORTS

| STATION | LOCATION (OFFSET) | UTILITY | NOTES |
|----------|-------------------|-----------|-------|
| 25+63.23 | LT-1.28 | 3x2 ATT | |
| 26+67.39 | LT-0.20 | 24" STORM | |

UTILITY LINE OPENINGS

| ULO# NO. | STATION | LOCATION (OFFSET) | UTILITY | NOTES |
|----------|----------|-------------------|----------|--|
| ULO #1 | 25+06.56 | LT-0.88 | UW STEAM | CONFIRM SANITARY SEWER ELEVATION AT UW STEAM TUNNEL PRIOR TO INSTALLING CITY SEWER |

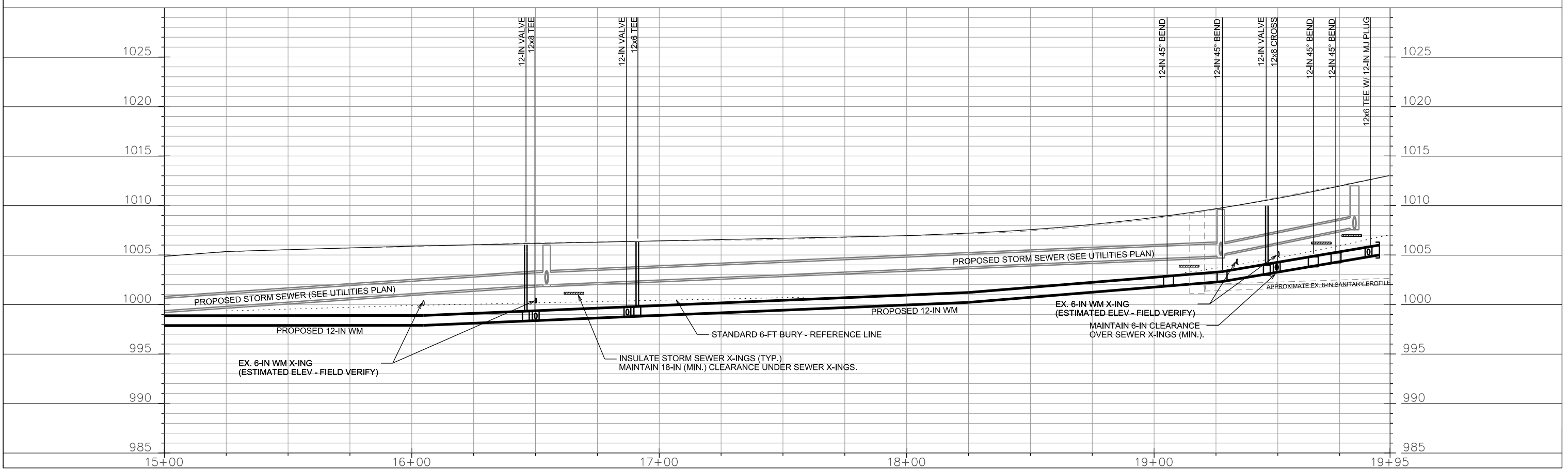
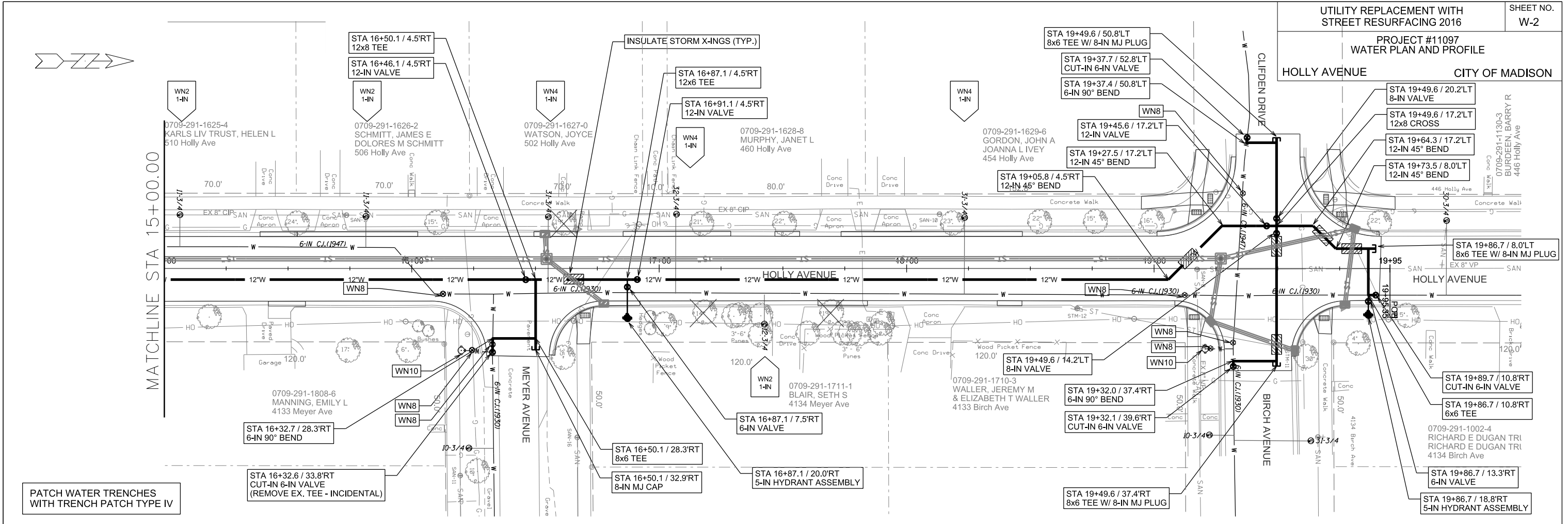


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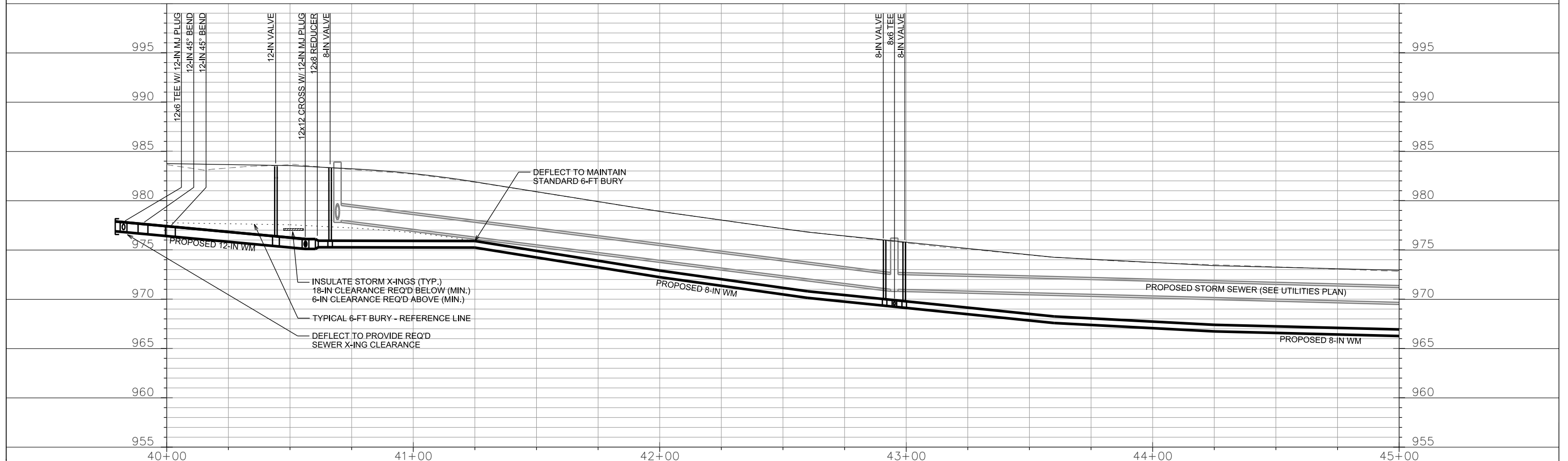
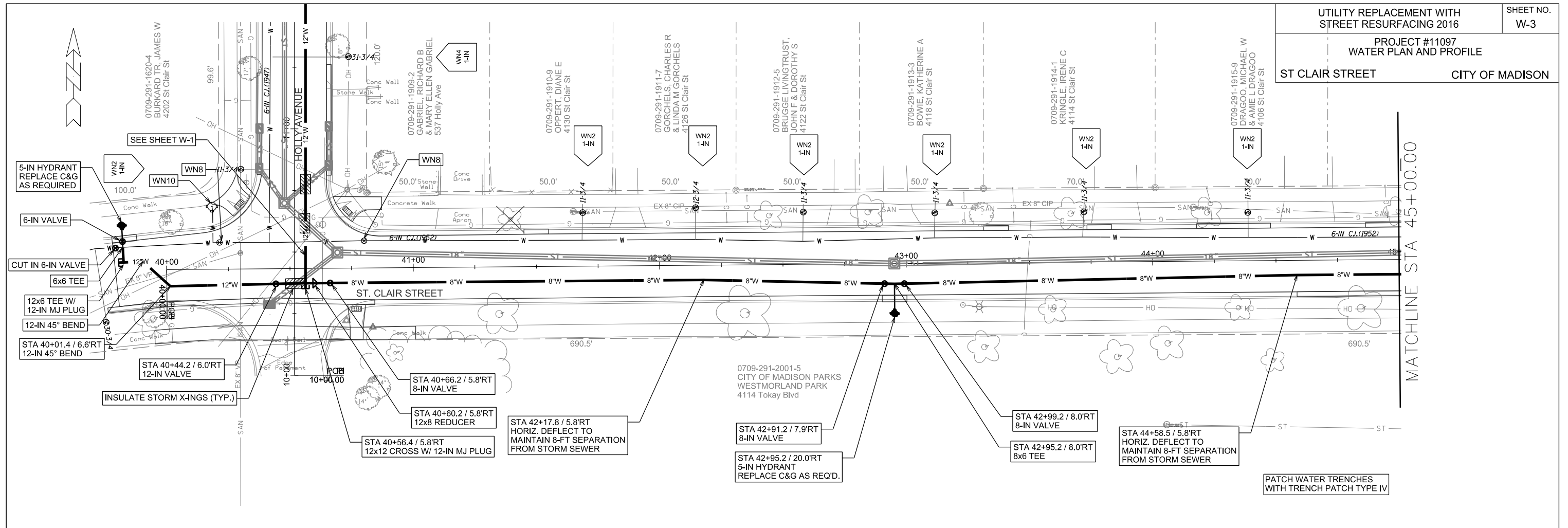
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REV. DATE: _____

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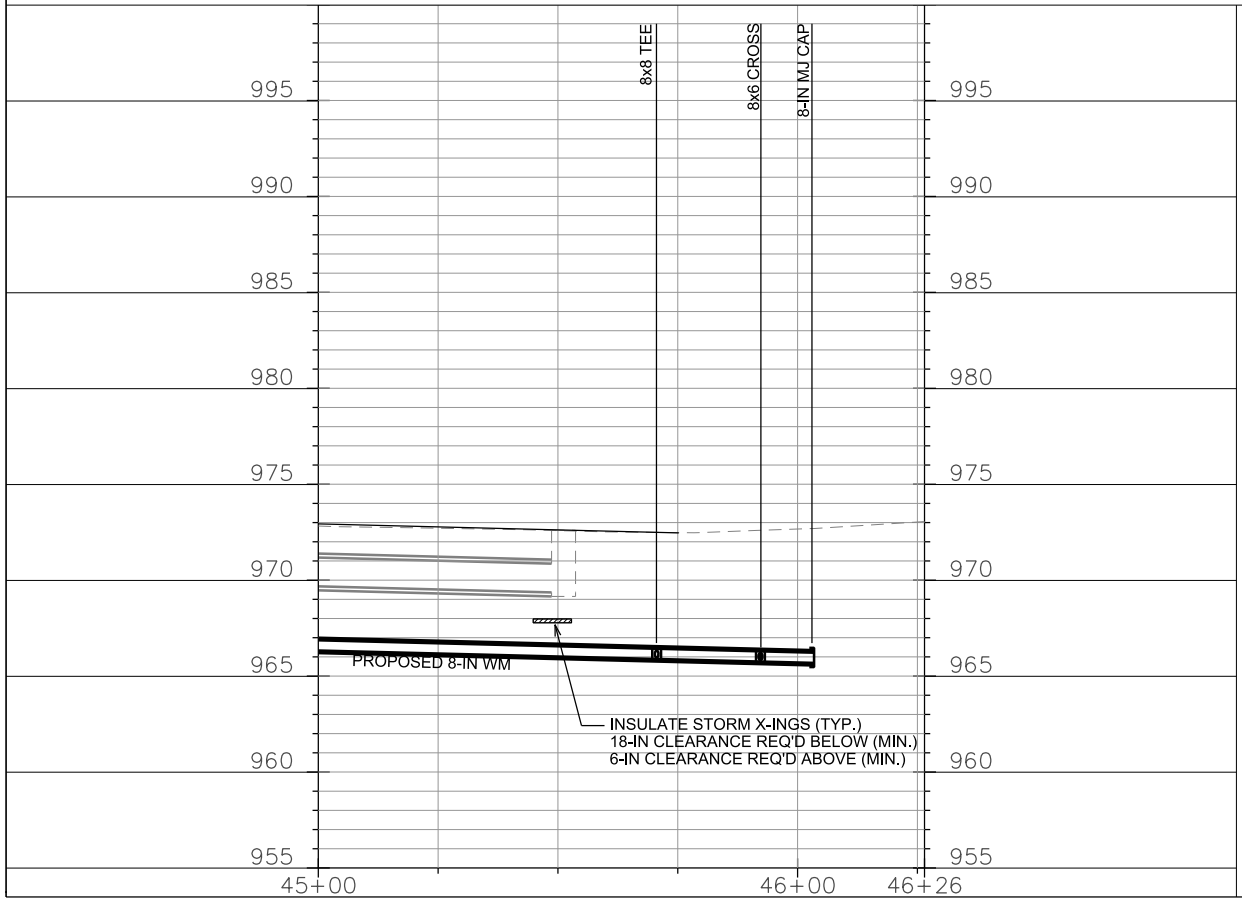
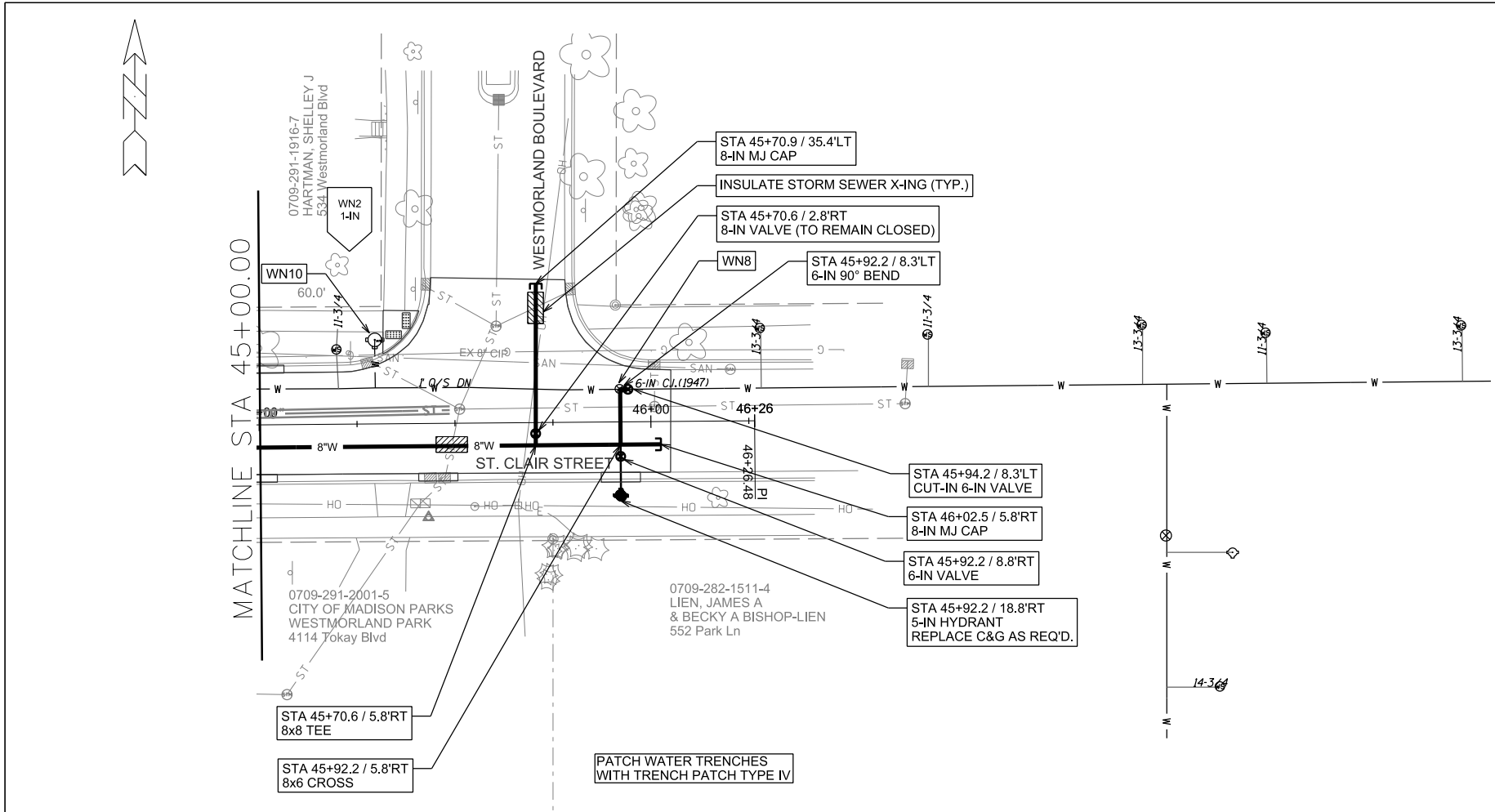


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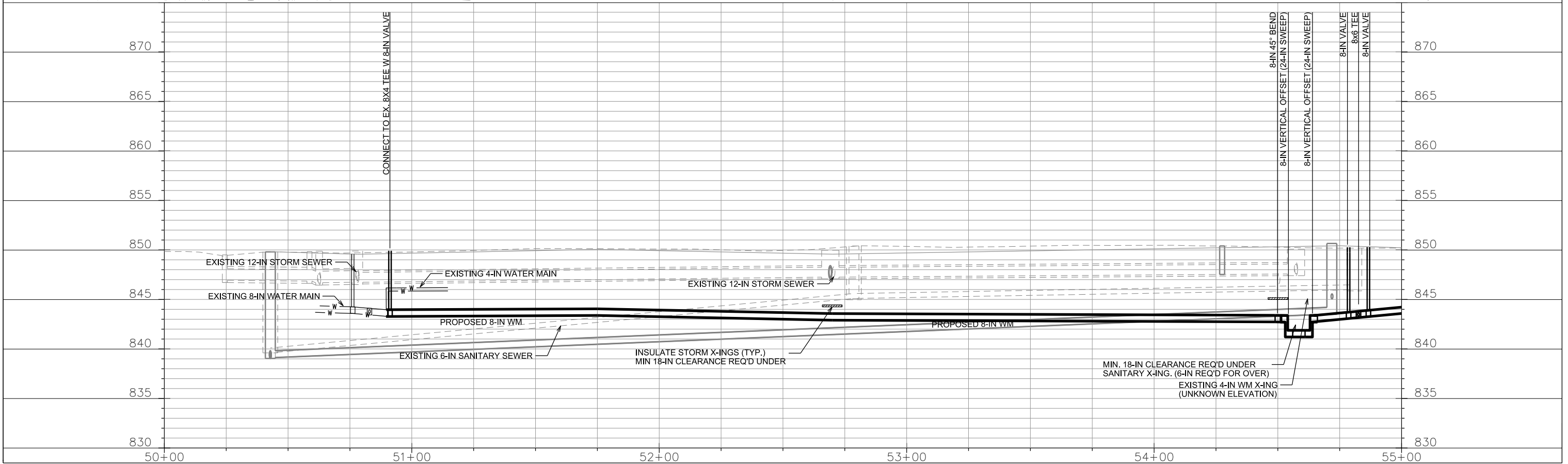
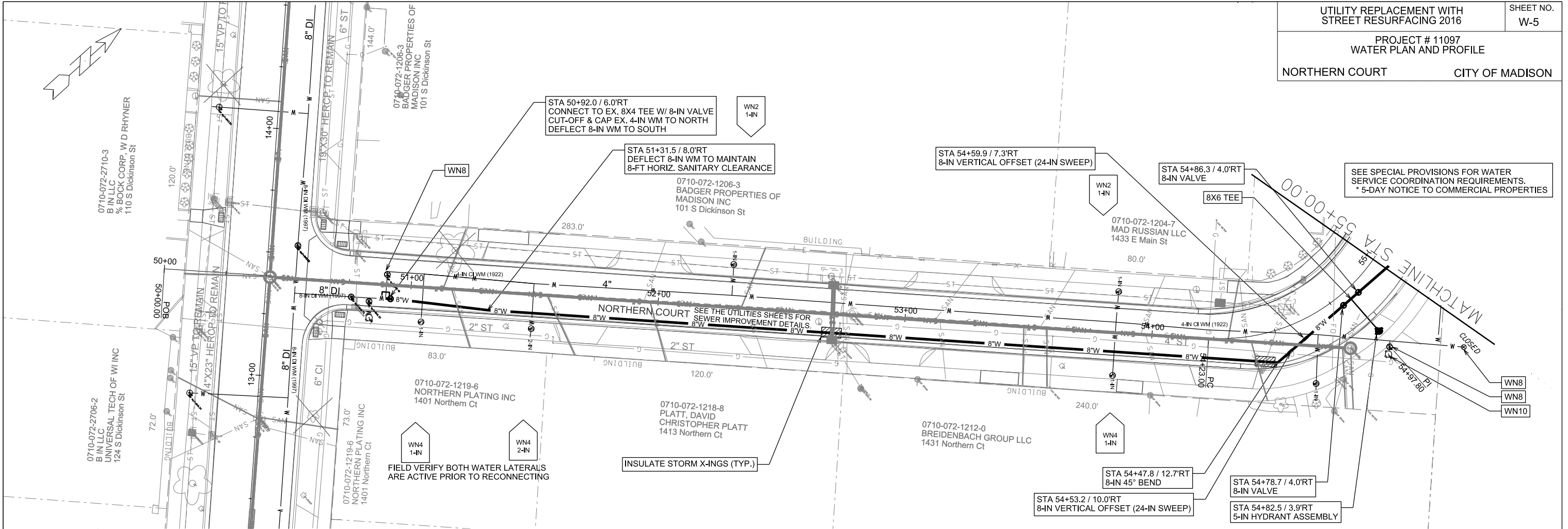


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PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0710-072-1103-1
YAHARA SQUARE ASSOCIATES
% JEROME J MULLINS
1435 E Washington Ave

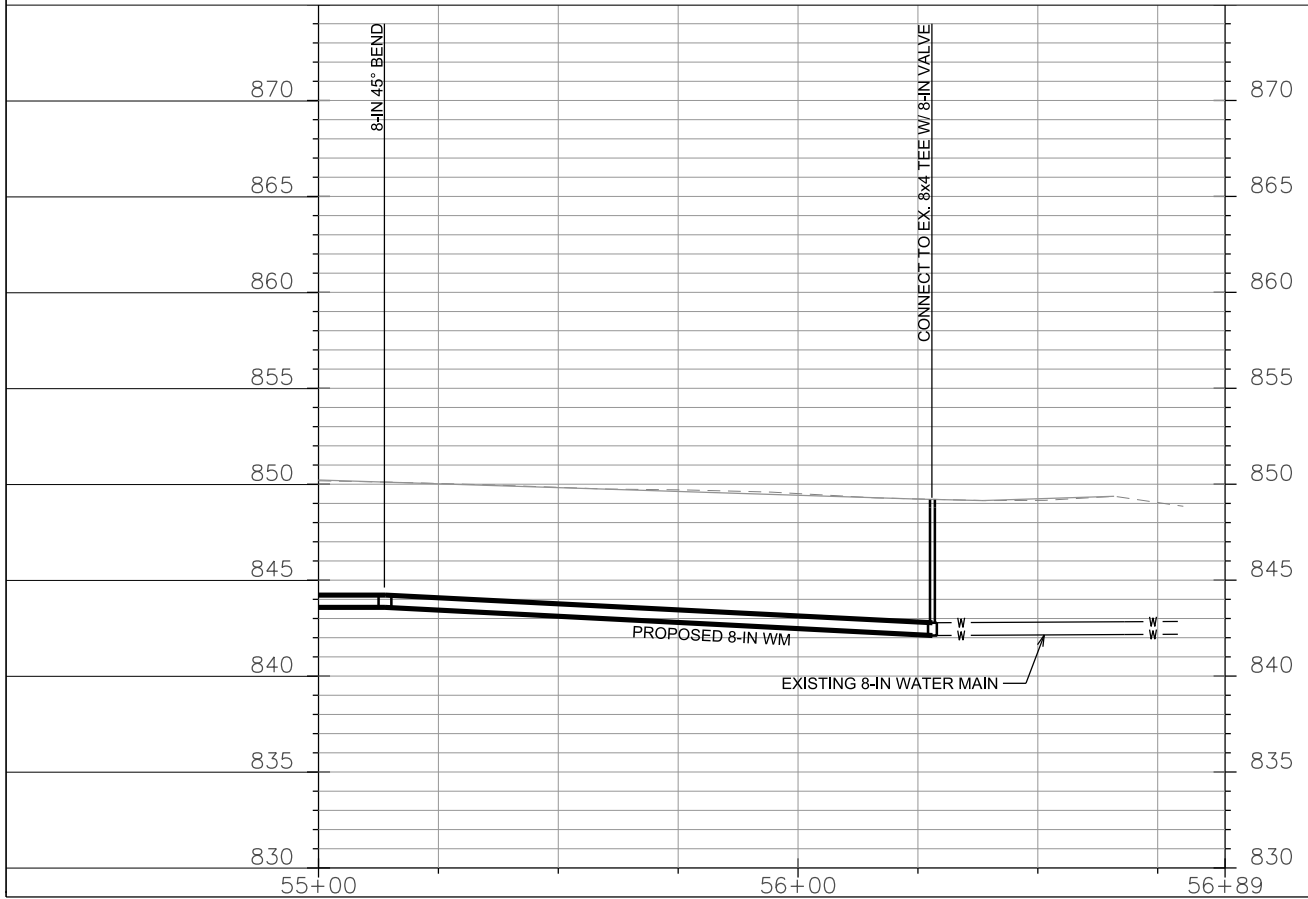
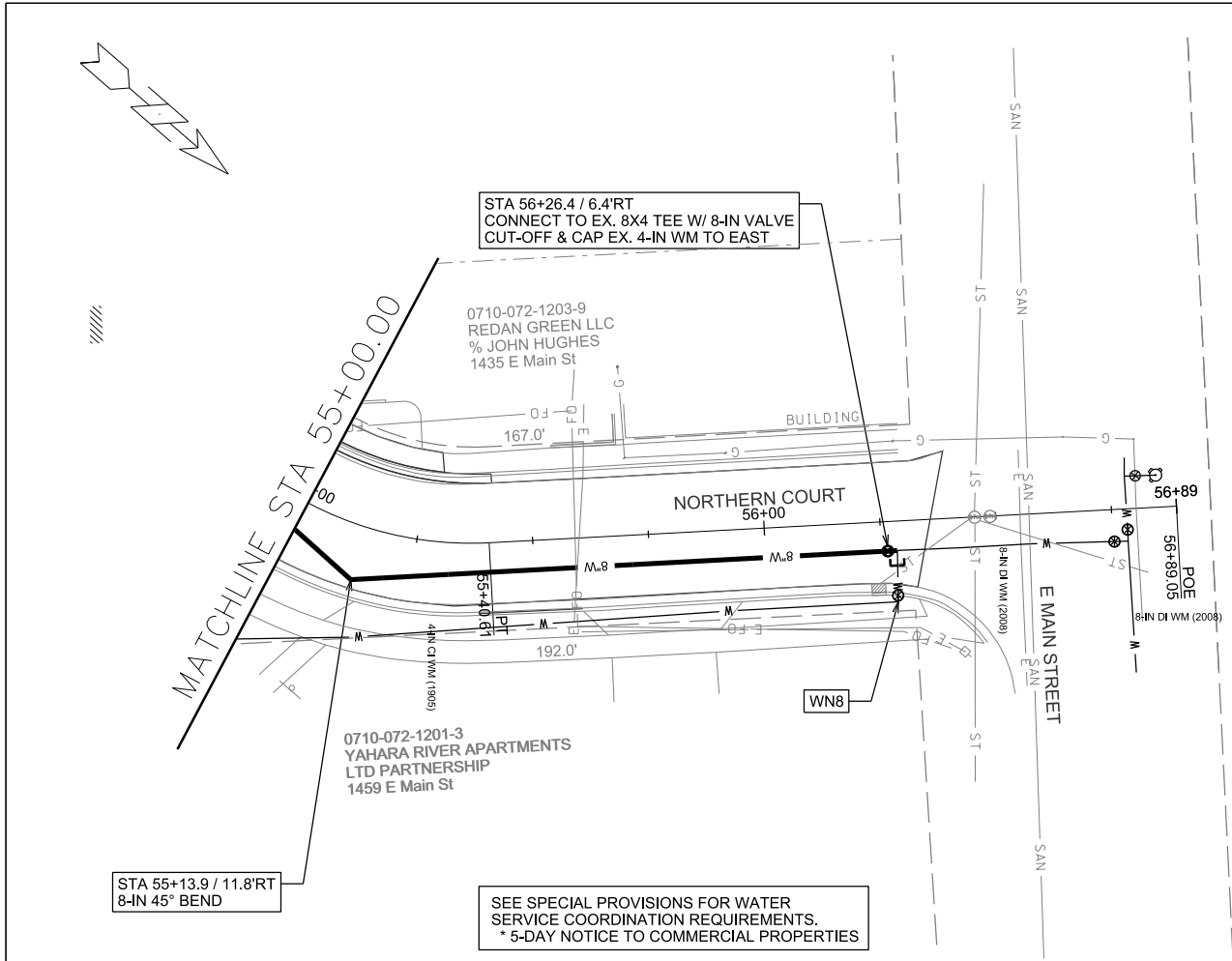
STA 56+26.4 / 6.4'RT
CONNECT TO EX. 8x4 TEE W/ 8-IN VALVE
CUT-OFF & CAP EX. 4-IN WM TO EAST

0710-072-1203-9
REDAN GREEN LLC
% JOHN HUGHES
1435 E Main St

0710-072-1201-3
YAHARA RIVER APARTMENTS
LTD PARTNERSHIP
1459 E Main St

STA 55+13.9 / 11.8'RT
8-IN 45° BEND

SEE SPECIAL PROVISIONS FOR WATER
SERVICE COORDINATION REQUIREMENTS.
* 5-DAY NOTICE TO COMMERCIAL PROPERTIES

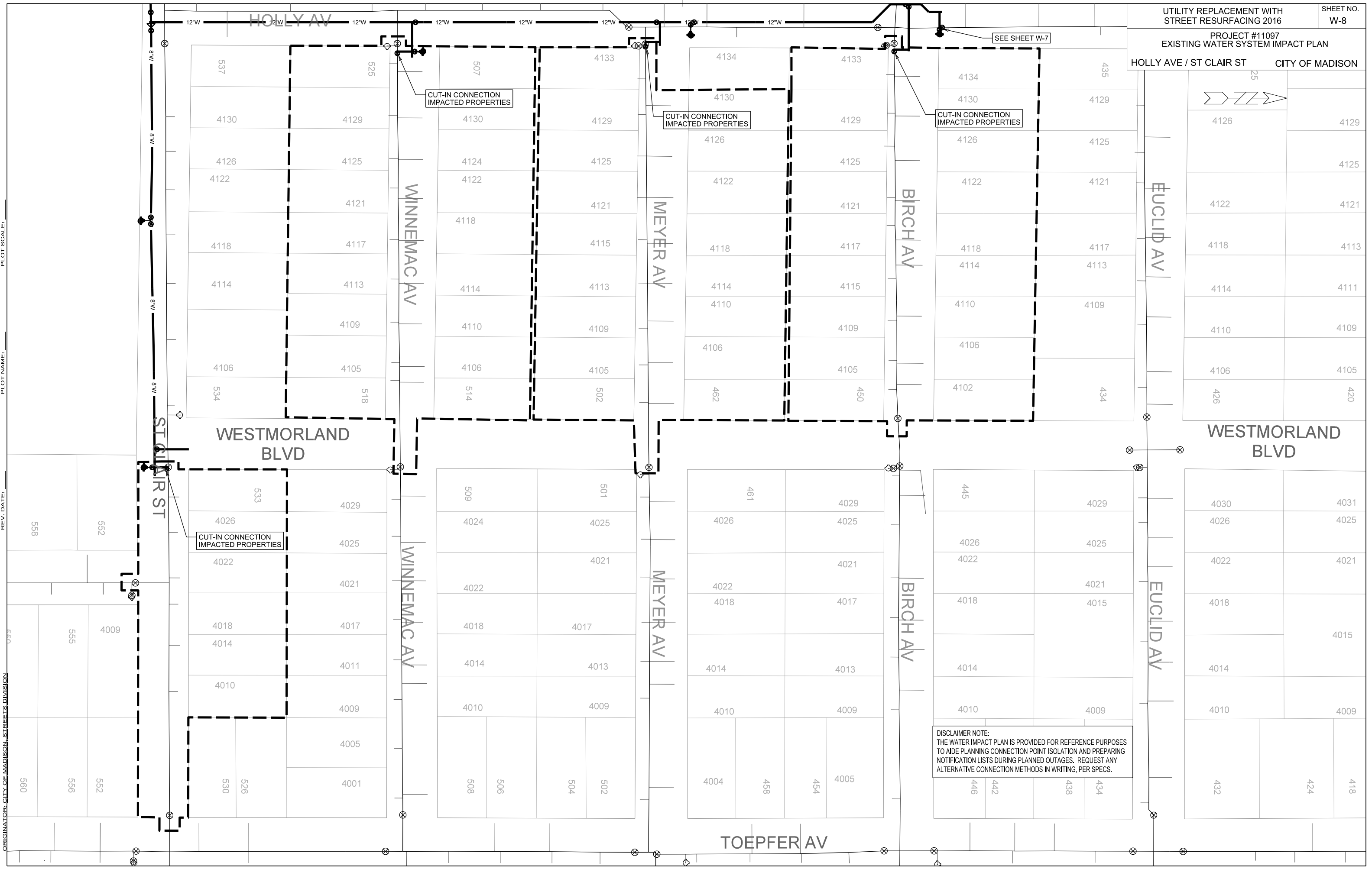


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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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.

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 DISRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. 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.

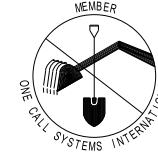
DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

- 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

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.



EROSION CONTROL NOTES:
EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.
THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.
THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.
POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

PATCH WATER TRENCHES WITH TRENCH PATCH TYPE IV ON HOLLY AVE & ST CLAIR ST

SEE SPECIAL PROVISIONS FOR WATER SERVICE COORDINATION REQUIREMENTS.
* 5-DAY NOTICE TO COMMERCIAL PROPERTIES ON NORTHERN CT

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

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

- 215-FT - 6-IN PIPE
- 1,320-FT - 8-IN PIPE
- 1,065-FT - 12-IN PIPE
- 2,860-FT - POLYWRAP

- 12 - 6-IN VALVE & BOX
- 8 - 8-IN VALVE & BOX
- 5 - 12-IN VALVE & BOX

- 5 - 6-IN 90° BEND
- 2 - 8-IN 45° BEND
- 6 - 12-IN 45° BEND
- 2 - 4-IN MJ PLUG
- 3 - 8-IN MJ PLUG
- 3 - 12-IN MJ PLUG
- 4 - 8-IN MJ CAP
- 2 - 6-INx6-IN TEE
- 5 - 8-INx6-IN TEE
- 1 - 8-INx8-IN TEE
- 3 - 12-INx6-IN TEE
- 2 - 12-INx8-IN TEE
- 2 - 8-INx6-IN CROSS
- 1 - 12-INx8-IN CROSS
- 1 - 12-INx12-IN CROSS
- 1 - 12-INx8-IN REDUCER
- 2 - 8-IN OFFSET (24-IN SWEEP)
- 1 - 12-IN OFFSET (12-IN SWEEP)

- 7 - 5-IN HYDRANT

- 2-IN STYROFOAM INSULATION (AS REQUIRED)
- COPPER SERVICE TUBING/COUPLINGS (AS REQUIRED)
- HYDRANT OR VALVE BOX RISERS/EXTENSIONS (AS REQUIRED)

ESTIMATE OF MATERIALS SUPPLIED BY CITY:

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

NONE

ESTIMATE OF MATERIALS SALVAGED:

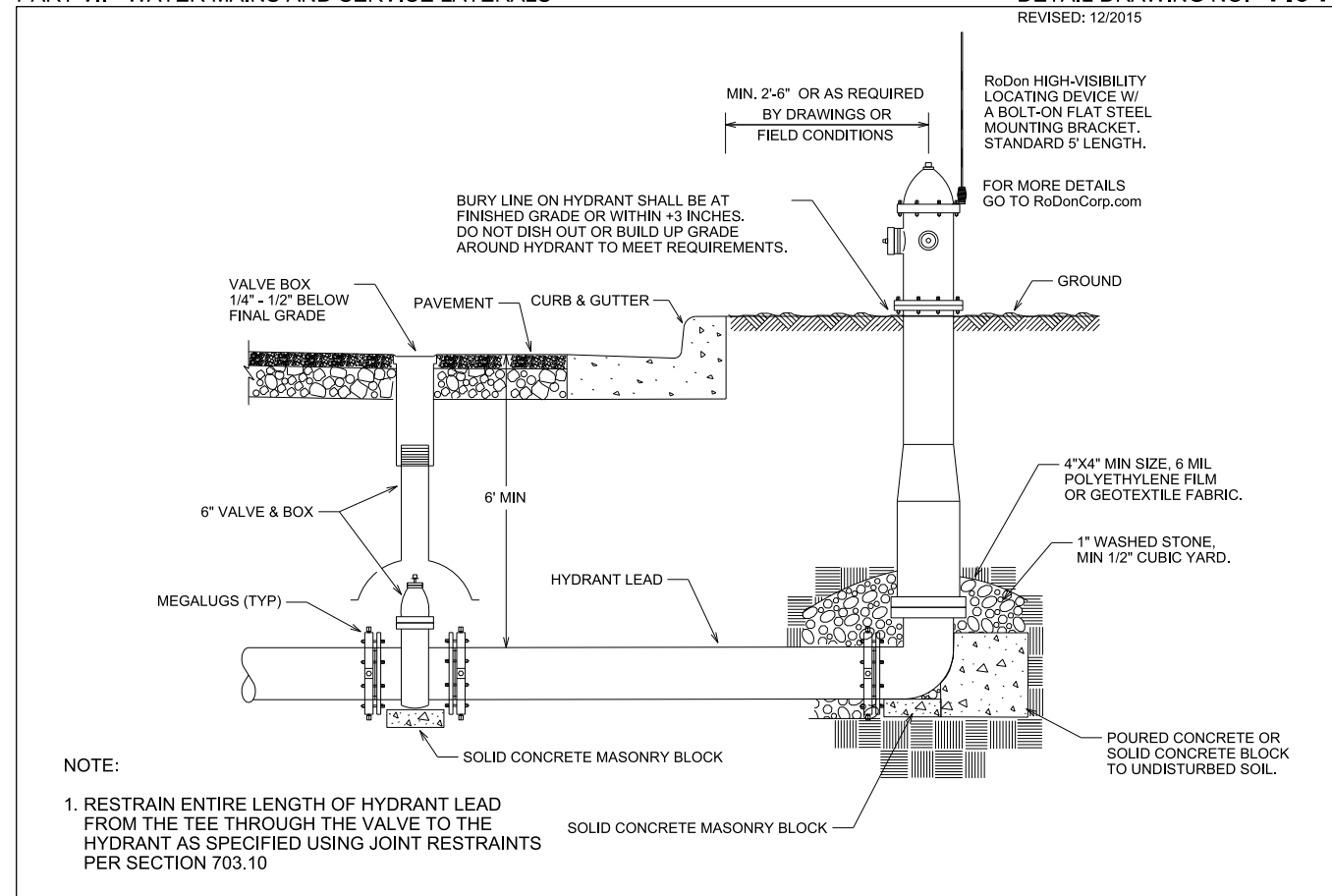
* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

NONE

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. 7.04

REVISED: 12/2015



NOTE:
1. 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

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

NORTHERN COURT

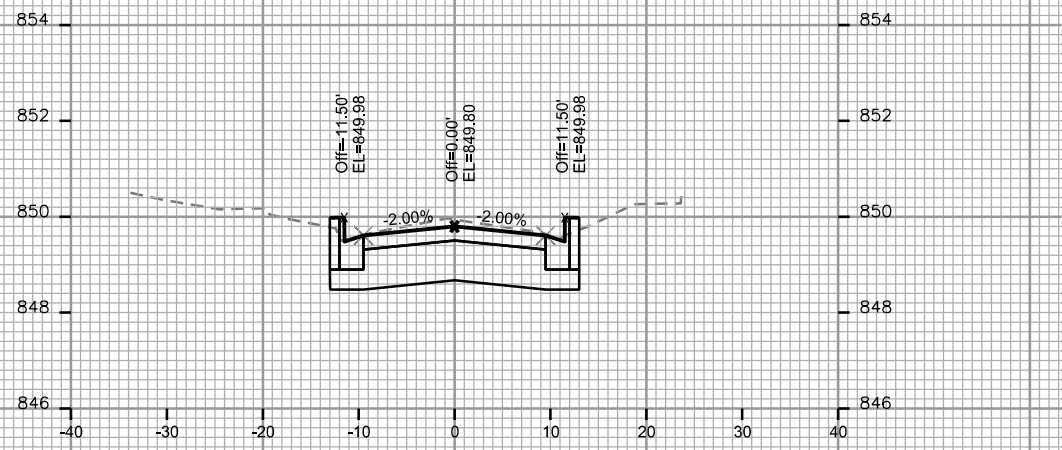
CITY OF MADISON

PLOT SCALE: _____

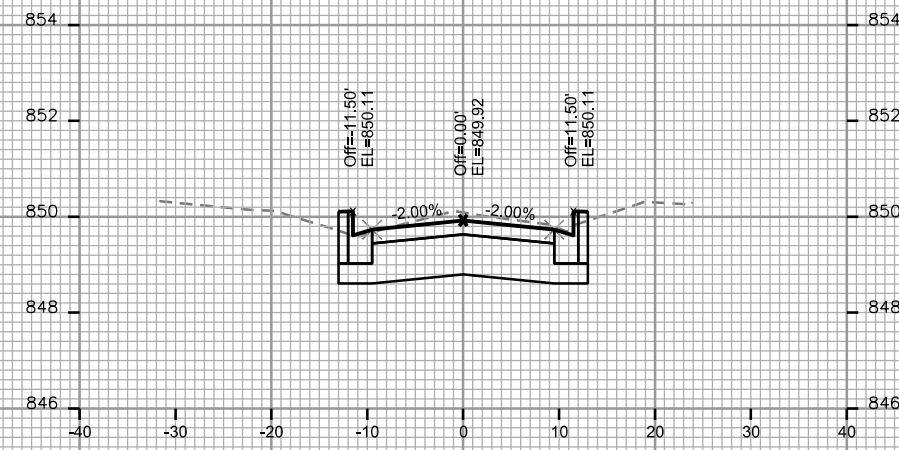
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REV. DATE: _____

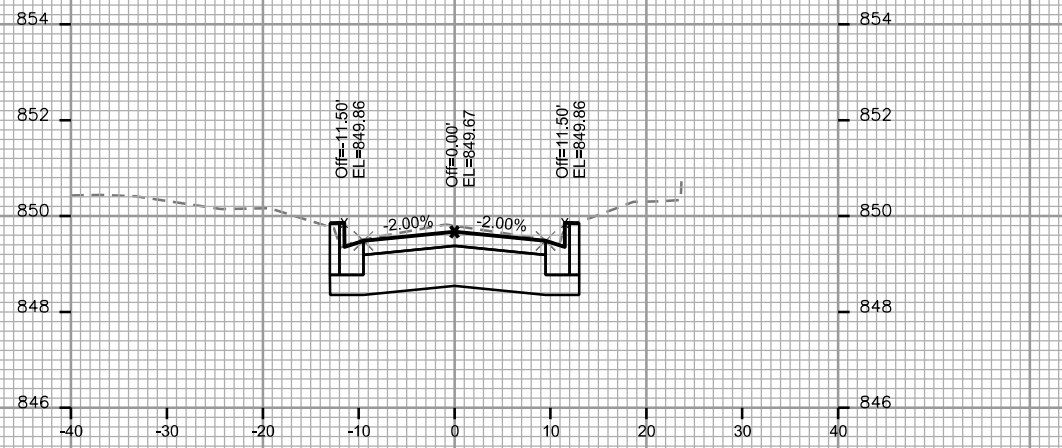
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



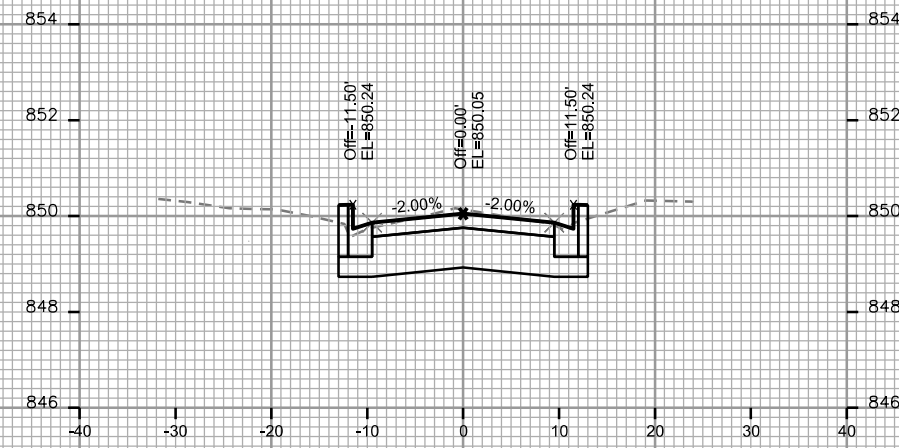
STA. 51+25



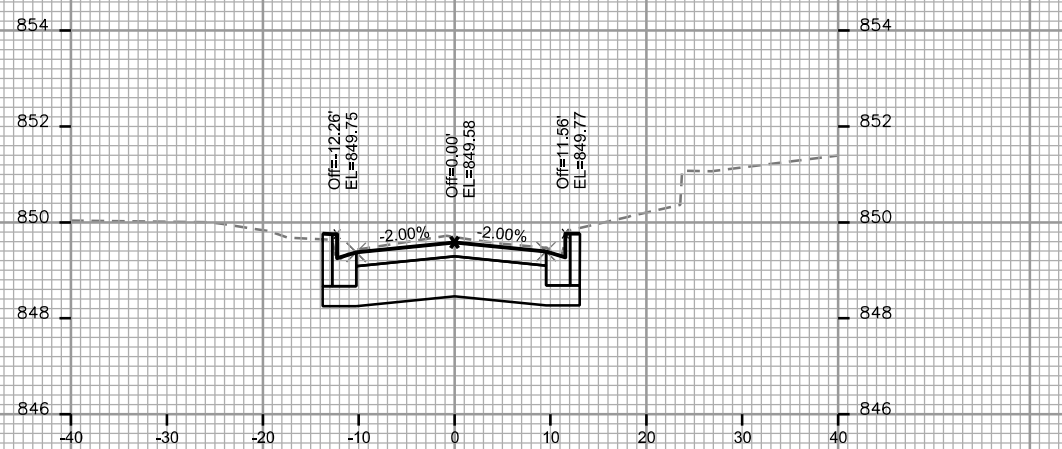
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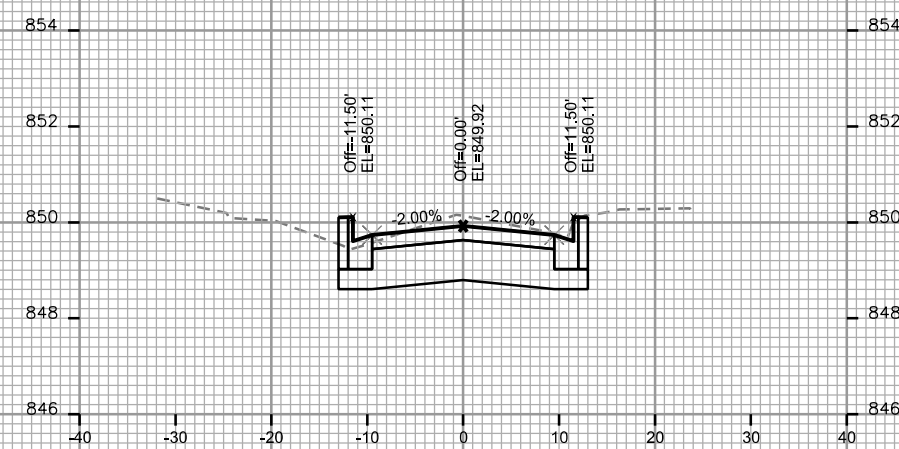
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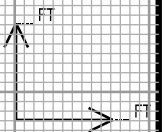
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STA. 50+75



STA. 51+50



CROSS SECTIONS

NORTHERN COURT

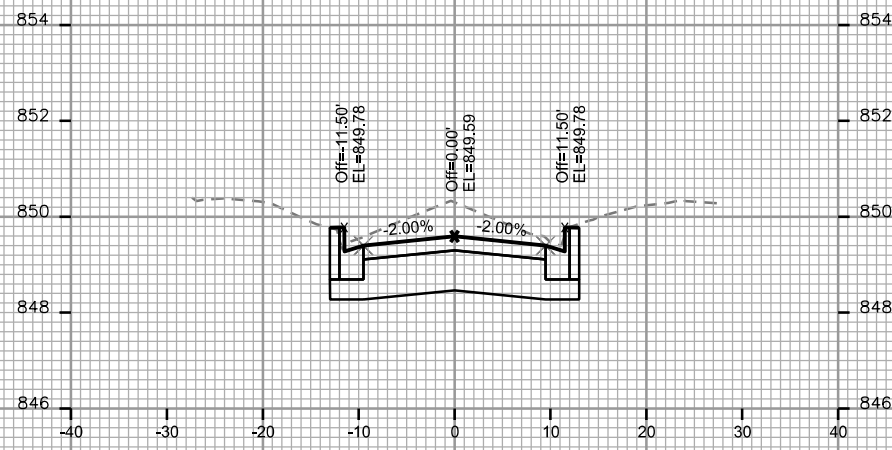
CITY OF MADISON

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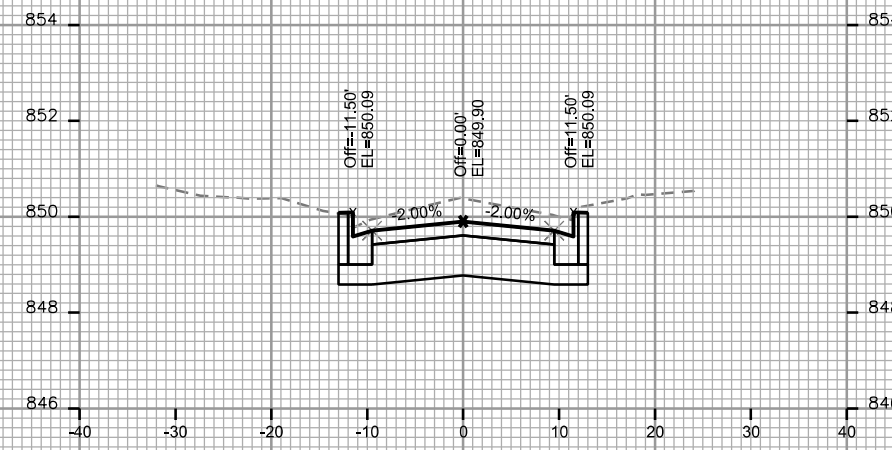
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REV. DATE: _____

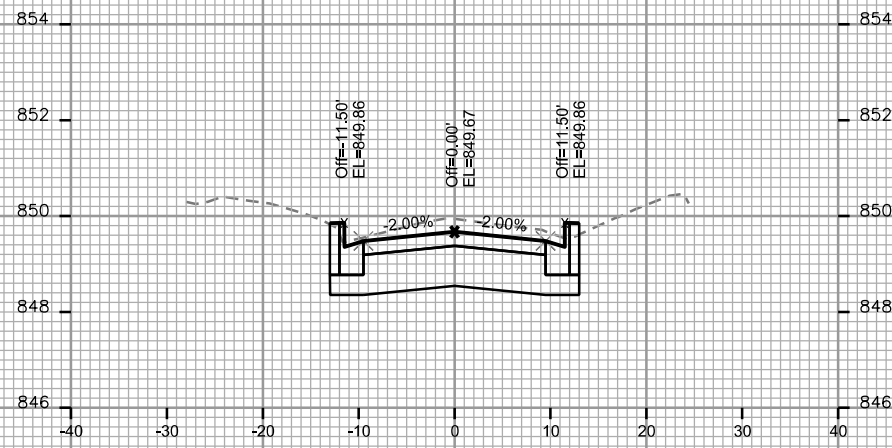
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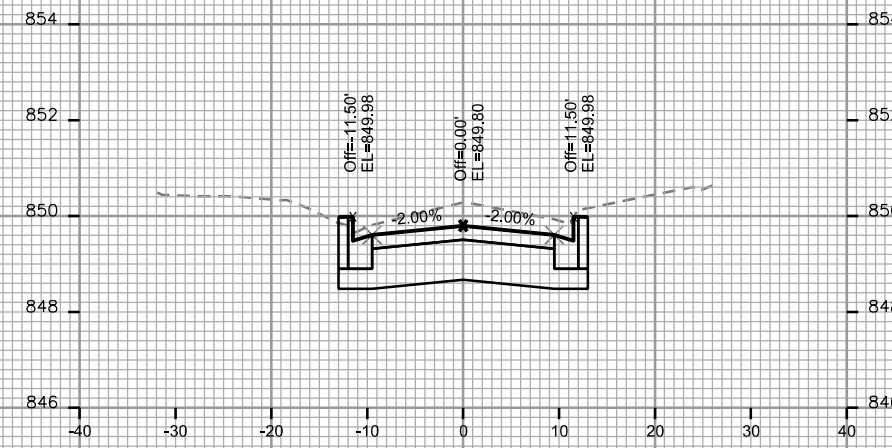
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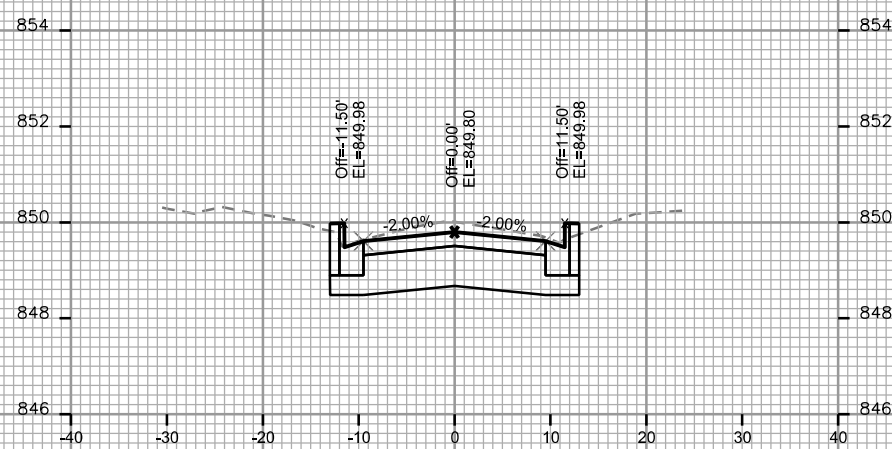
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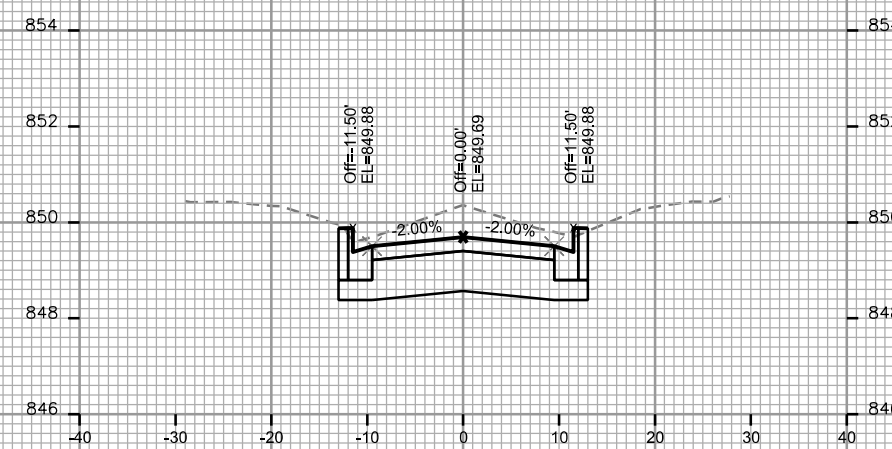
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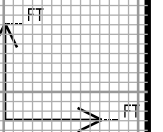
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STA. 53+00



CROSS SECTIONS

NORTHERN COURT

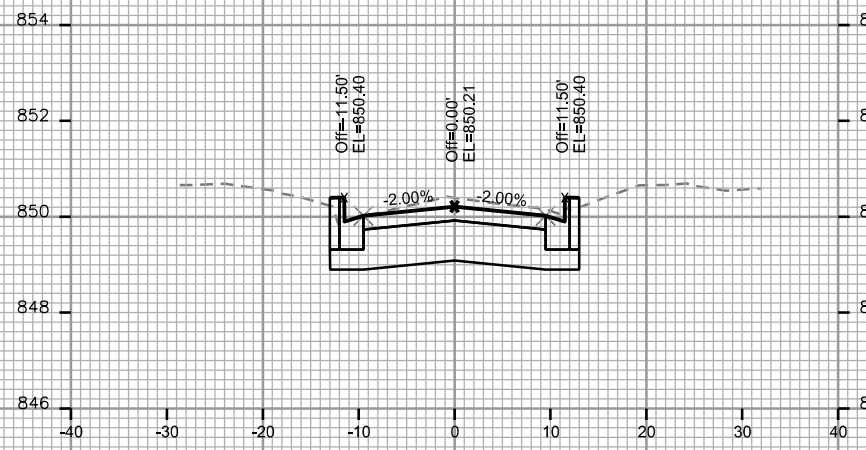
CITY OF MADISON

PLOT SCALE: _____

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REV. DATE: _____

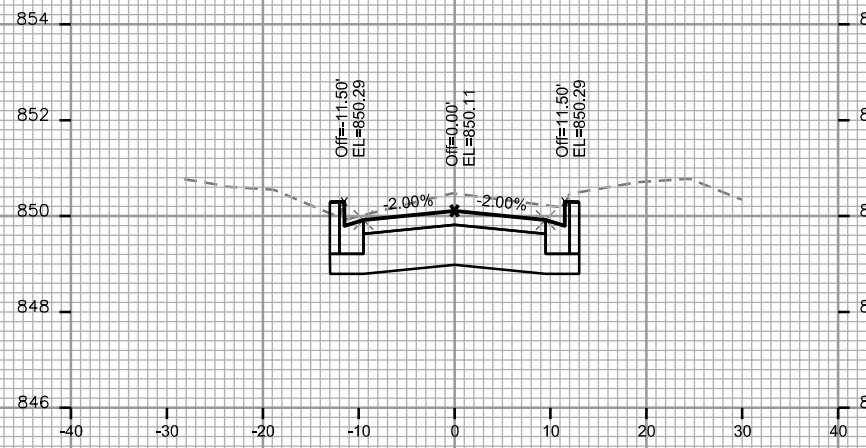
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



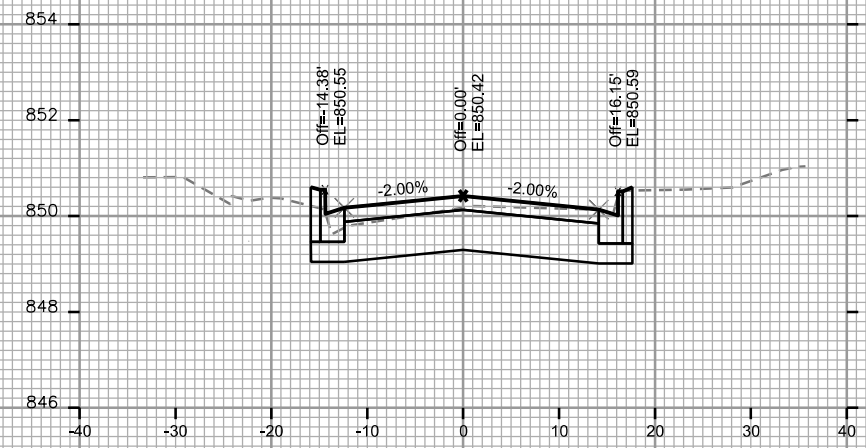
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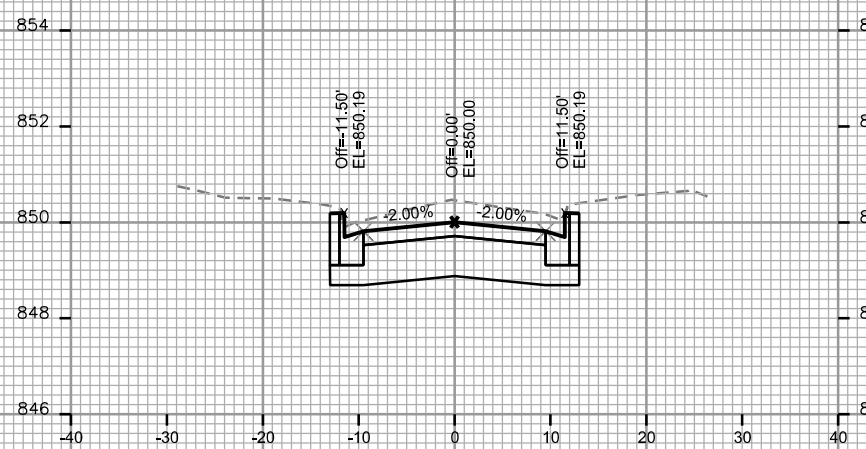
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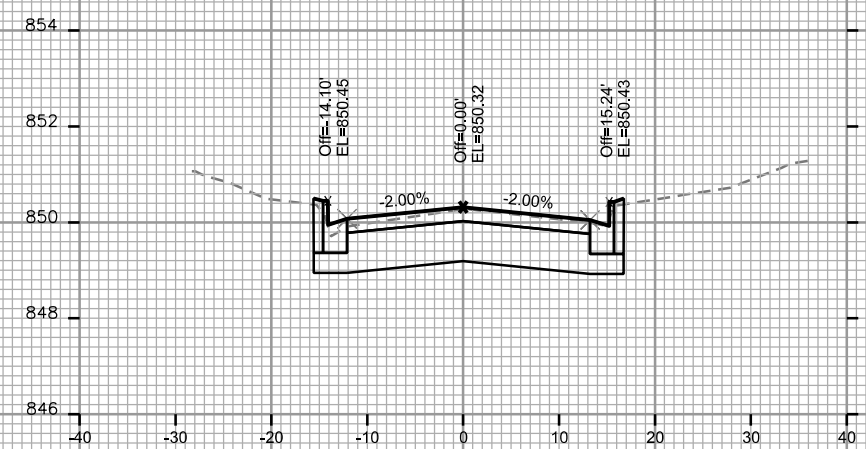
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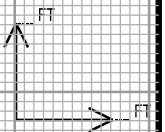
STA. 54+75



STA. 53+75



STA. 54+50



CROSS SECTIONS

NORTHERN COURT

CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

