

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

N BLACKHAWK AVE, BRUCE CT, AND HEATHER CREST RESURFACING WITH UTILITIES ASSESSMENT DISTRICT - 2018

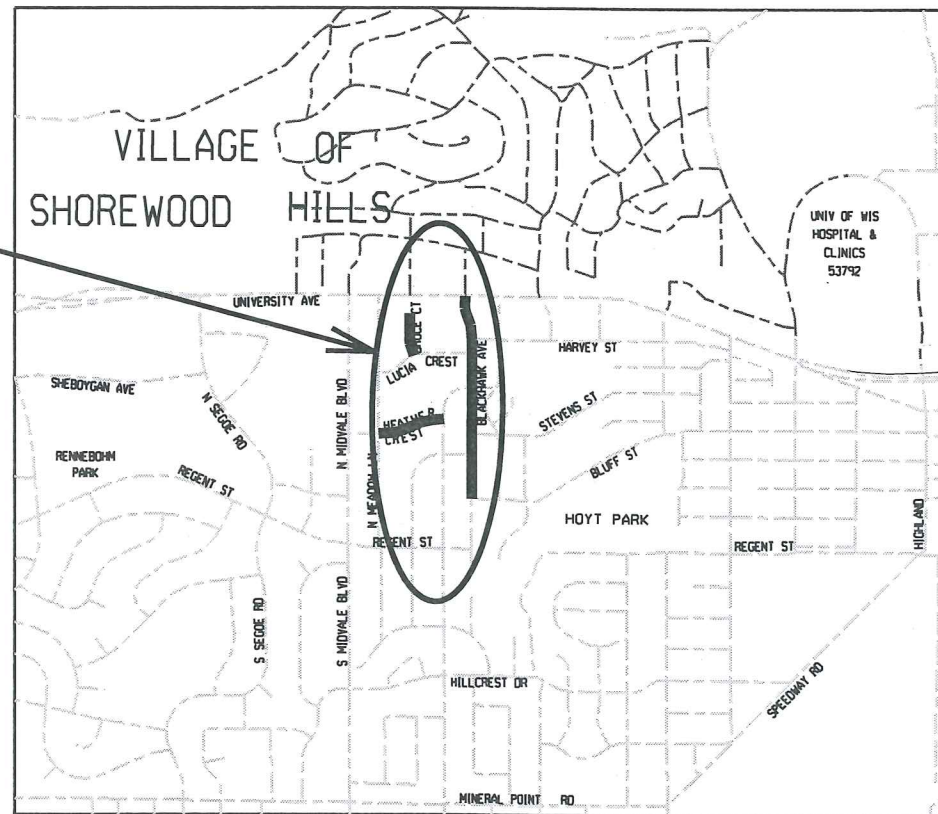
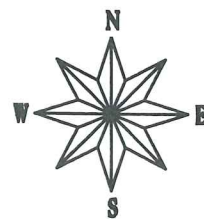
CITY PROJECT NO. 11743

CONTRACT NO. 8191

INDEX OF SHEETS

SHEET NO.	TITLE
1	TYPICAL SECTIONS
DI-D3	EROSION CONTROL PLAN
EC1-EC8	STREET PLAN & PROFILES
PI-P8	STORM SEWERS PLAN & PROFILES
ST1-ST6	STORM SEWER SCHEDULES
ST7-ST8	SANITARY SEWERS PLAN & PROFILES
SN1-SN8	SANITARY SEWER SCHEDULES
SN9-SN10	WATER PLAN & PROFILES
W1-W5	WATER IMPACT PLANS
W6-W7	WATER ESTIMATE OF MATERIALS & DETAILS
W8	N BLACKHAWK AVE CROSS SECTIONS
XI-X15	

PROJECT LOCATION



EARTH WORK SUMMARY:
 EXCAVATION CUT (MEASURED PLAN QUANTITY).....3190 C.Y.
 ESTIMATED UNDISTRIBUTED UNDERCUT.....1060 C.Y.
 TOTAL UNCLASSIFIED EXCAVATION CUT.....4250 C.Y.

CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	⊥

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 1.50%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00%

PUBLIC IMPROVEMENT PROJECT APPROVED

MARCH 6, 2018

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

[Signature] 5/10/18
 City Engineer Date

STREET DESIGNED BY:

[Professional Engineer Seal: Cheryl Bachmann, #32079, Madison, WI]
 5-9-18

STREET GEOMETRICS DESIGNED BY:

[Professional Engineer Seal: Thomas A. Mohr, E-42481, Madison, WI]
 5/10/18

SANITARY SEWER DESIGNED BY:

[Professional Engineer Seal: Mark D. Moder, E-33979, Madison, WI]
 5/9/18

WATER MAIN DESIGNED BY:

[Professional Engineer Seal: Adam R. Wiederhoeft, E-41559, Madison, WI]
 5-10-2018

STORM SEWER DESIGNED BY:

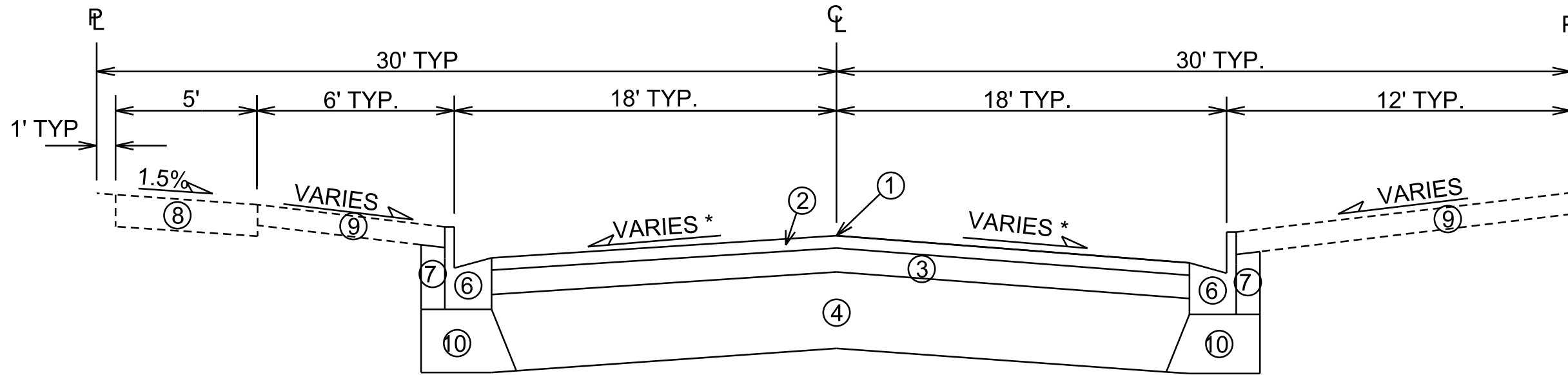
[Professional Engineer Seal: Gregory T. Fries, E-30668, Madison, WI]

PLOT SCALE: _____

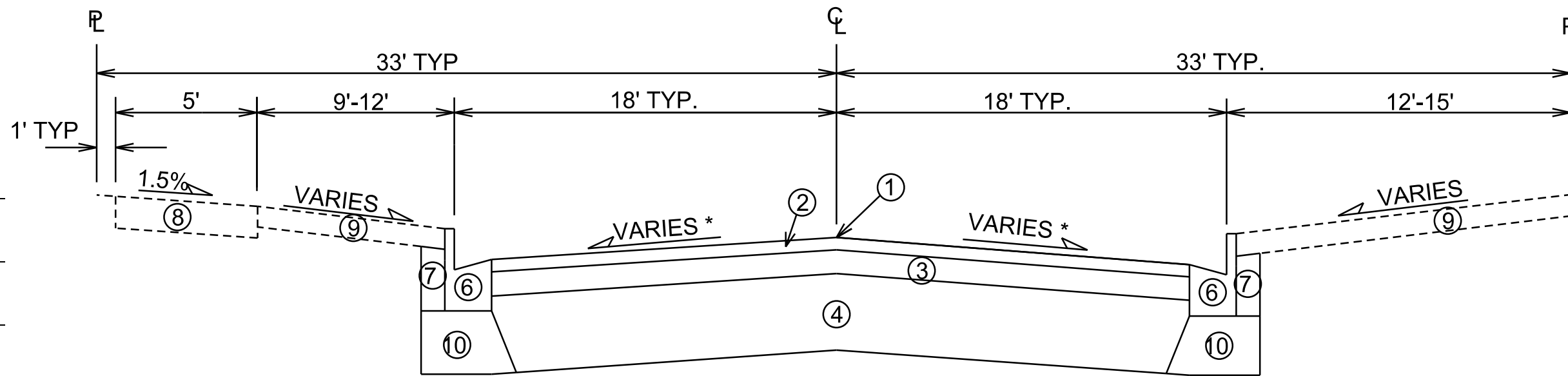
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL SECTION
N BLACKHAWK AVE
STA 10+30 TO STA 22+50



TYPICAL SECTION
N BLACKHAWK AVE
STA 22+50 TO STA 28+25

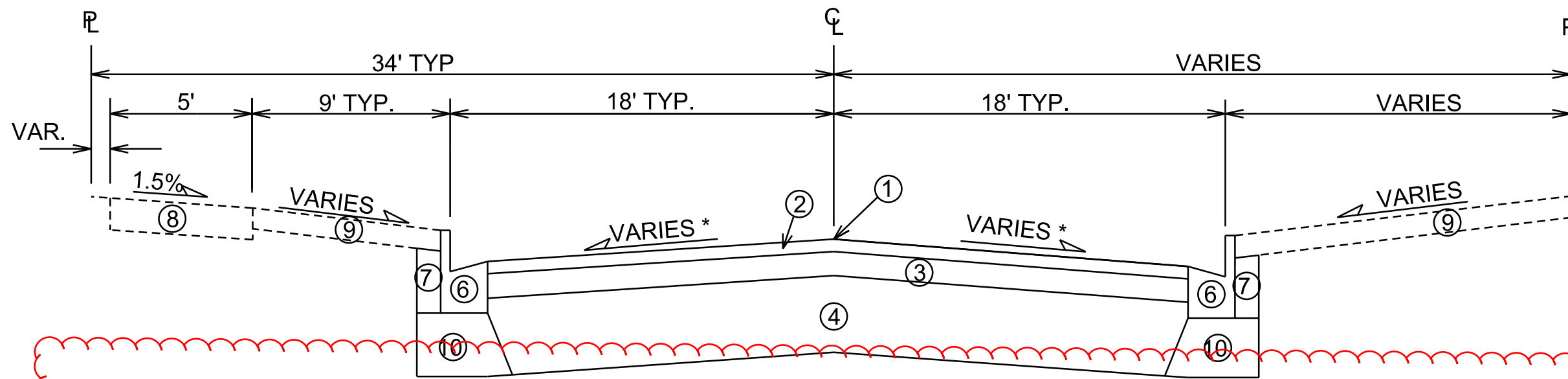
- ① POINT REFERRED TO ON PROFILE
- ② 2" BITUMINOUS UPPER LAYER, 4 LT 58-28 S
- ③ 2.5" BITUMINOUS LOWER LAYER, 3 LT 58-28 S
- ④ 12" GRADATION 2 CRUSHED AGGREGATE
- ⑥ REMOVE & REPLACE CONCRETE CURB & GUTTER AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER
- ⑦ FILL, INCIDENTAL WHERE CURB IS REPLACED
- ⑧ 5" CONCRETE SIDEWALK, REMOVE & REPLACE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER
- ⑨ RESTORE DISTURBED AREAS W/ 6" 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.

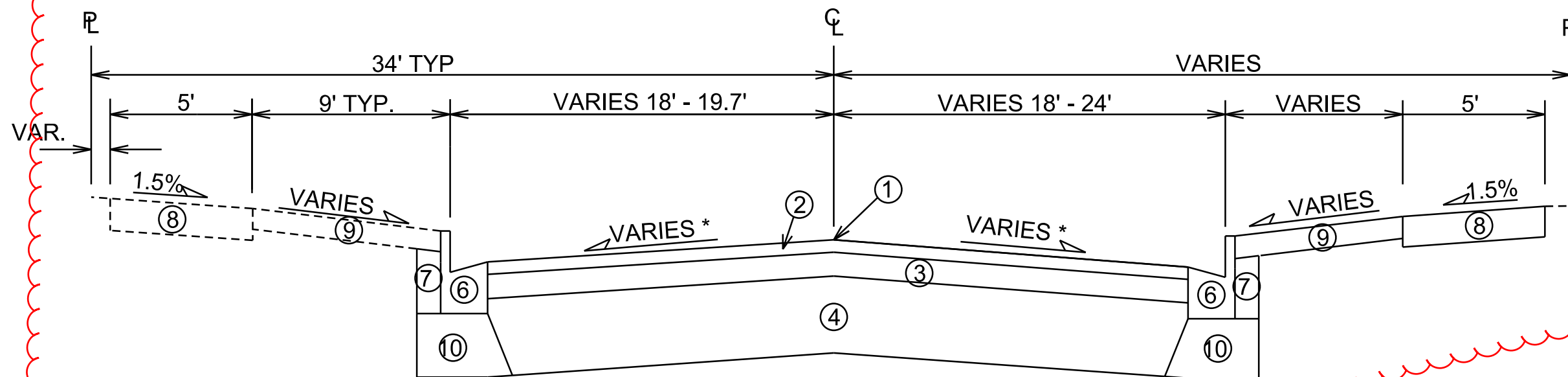
TYPICAL SECTION NOT TO SCALE

REV. 2-28-19 CWD

**REV CWD
2-28-19:
REVISED
TYPICAL
SECTIONS DUE
TO ADDITION
OF TURN LANE**



TYPICAL SECTION
N BLACKHAWK AVE
STA 28+25 TO STA 29+75

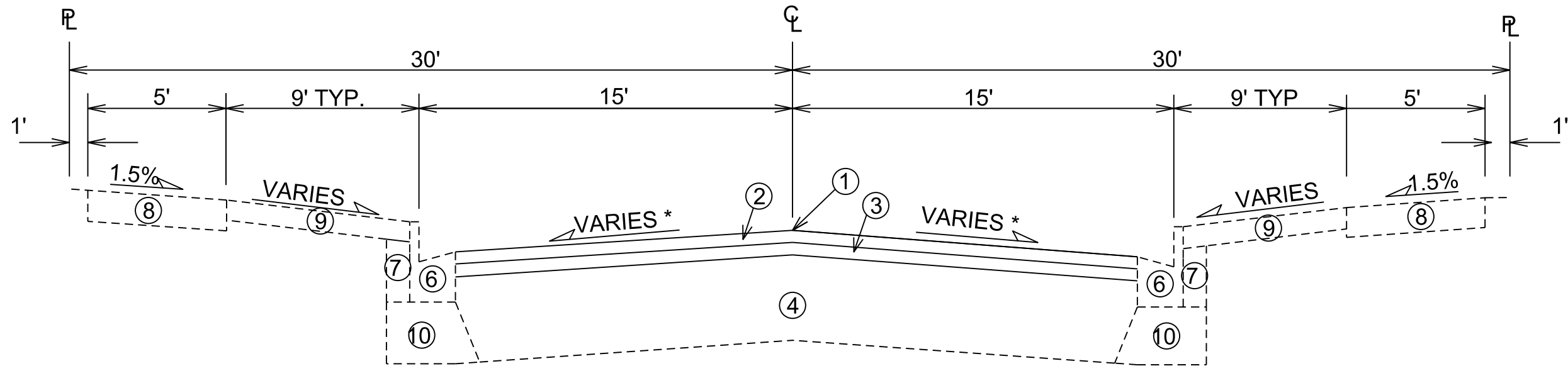


TYPICAL SECTION
N BLACKHAWK AVE
STA 29+75 TO STA 31+30

- ① POINT REFERRED TO ON PROFILE
- ② 2" BITUMINOUS UPPER LAYER, 4 LT 58-28 S
- ③ 2.5" BITUMINOUS LOWER LAYER, 3 LT 58-28 S
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- 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



TYPICAL SECTION
BRUCE COURT
HEATHER CREST

- ① POINT REFERRED TO ON PROFILE
- ② 1.75" BITUMINOUS UPPER LAYER, 4 LT 58-28 S
- ③ 1.75" BITUMINOUS LOWER LAYER, 4 LT 58-28 S
- ④ EXISTING BASE COURSE
- 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/ 6" 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

PLOT SCALE: _____

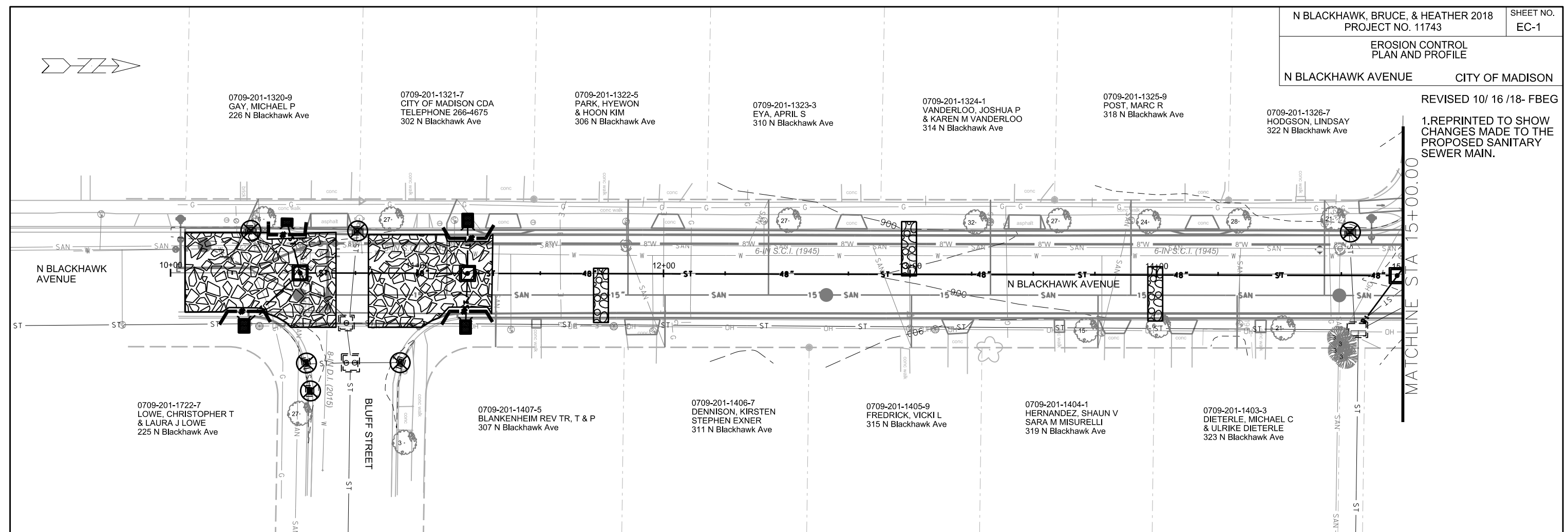
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION

REVISED 10/ 16 /18- FBEG

1. REPRINTED TO SHOW
CHANGES MADE TO THE
PROPOSED SANITARY
SEWER MAIN.



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.

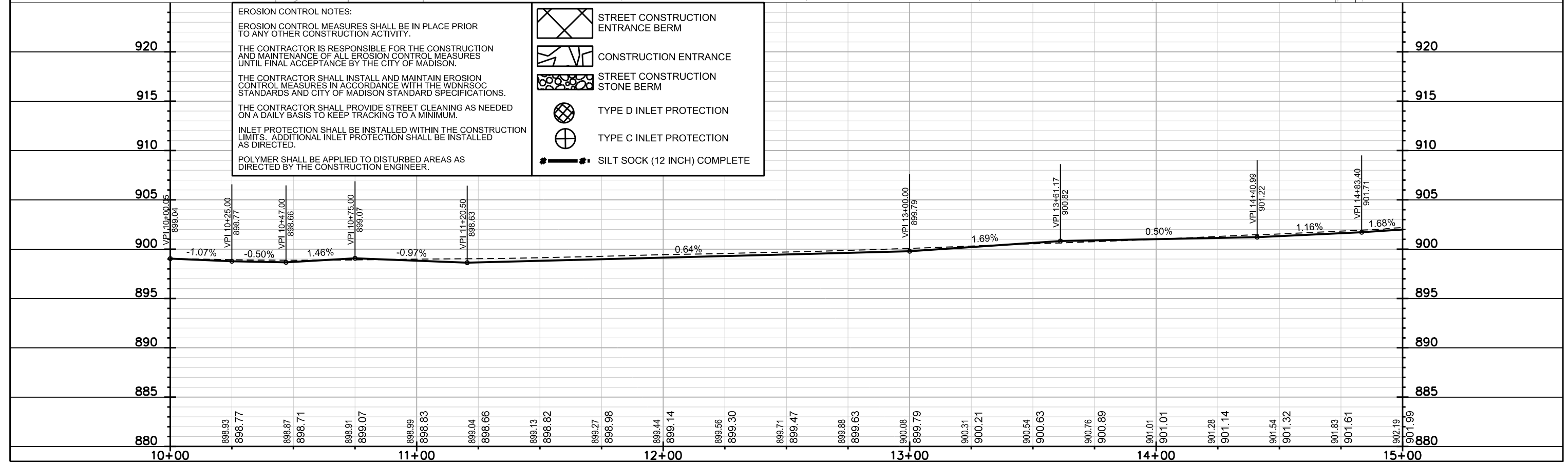
THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

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

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

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

	STREET CONSTRUCTION ENTRANCE BERM
	CONSTRUCTION ENTRANCE
	STREET CONSTRUCTION STONE BERM
	TYPE D INLET PROTECTION
	TYPE C INLET PROTECTION
	SILT SOCK (12 INCH) COMPLETE



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL
PLAN AND PROFILE

N BLACKHAWK AVENUE CITY OF MADISON

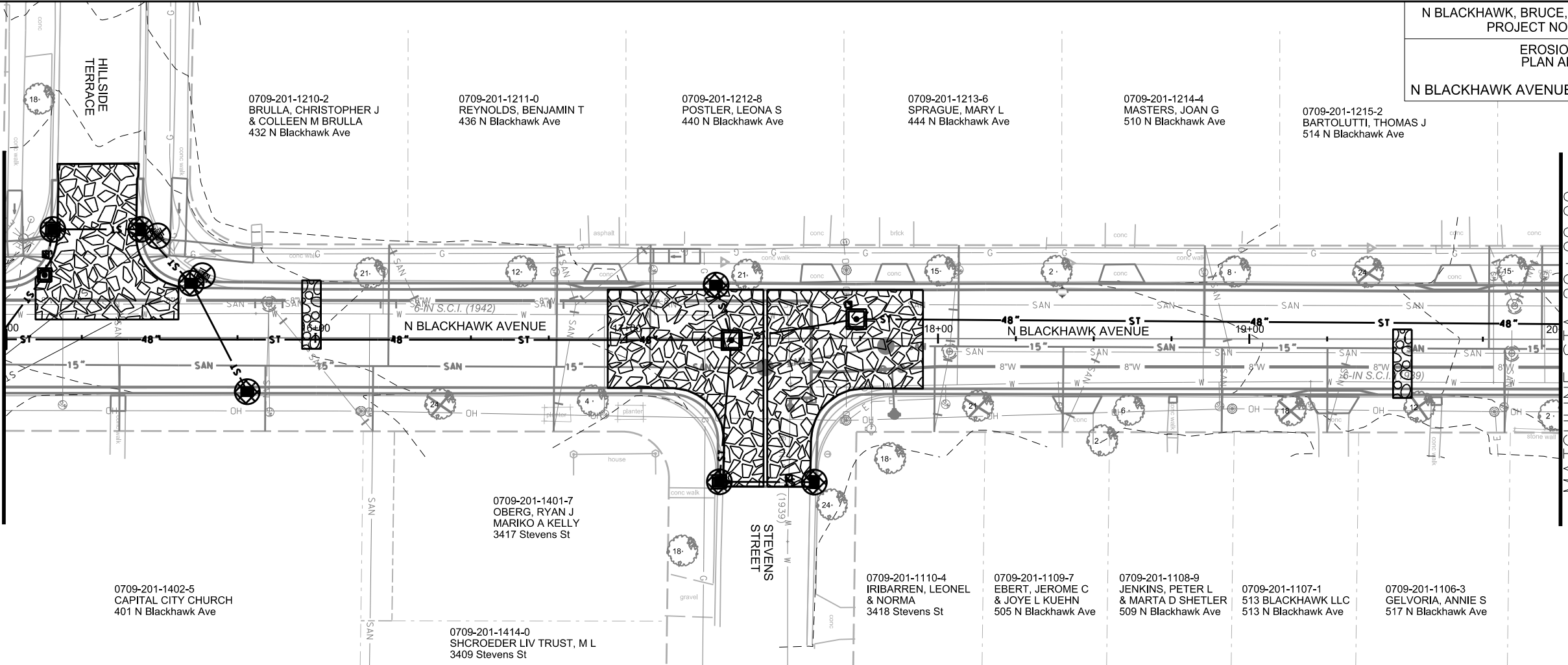
REVISED 10/16/18- FBEG

1. REPRINTED TO SHOW
CHANGES MADE TO THE
PROPOSED SANITARY
SEWER MAIN AND
STORM SEWER.

- 0709-201-1210-2 BRULLA, CHRISTOPHER J & COLLEEN M BRULLA 432 N Blackhawk Ave
- 0709-201-1211-0 REYNOLDS, BENJAMIN T 436 N Blackhawk Ave
- 0709-201-1212-8 POSTLER, LEONA S 440 N Blackhawk Ave
- 0709-201-1213-6 SPRAGUE, MARY L 444 N Blackhawk Ave
- 0709-201-1214-4 MASTERS, JOAN G 510 N Blackhawk Ave
- 0709-201-1215-2 BARTOLUCCI, THOMAS J 514 N Blackhawk Ave

MATCHLINE STA 15+00.00

MATCHLINE STA 20+00.00



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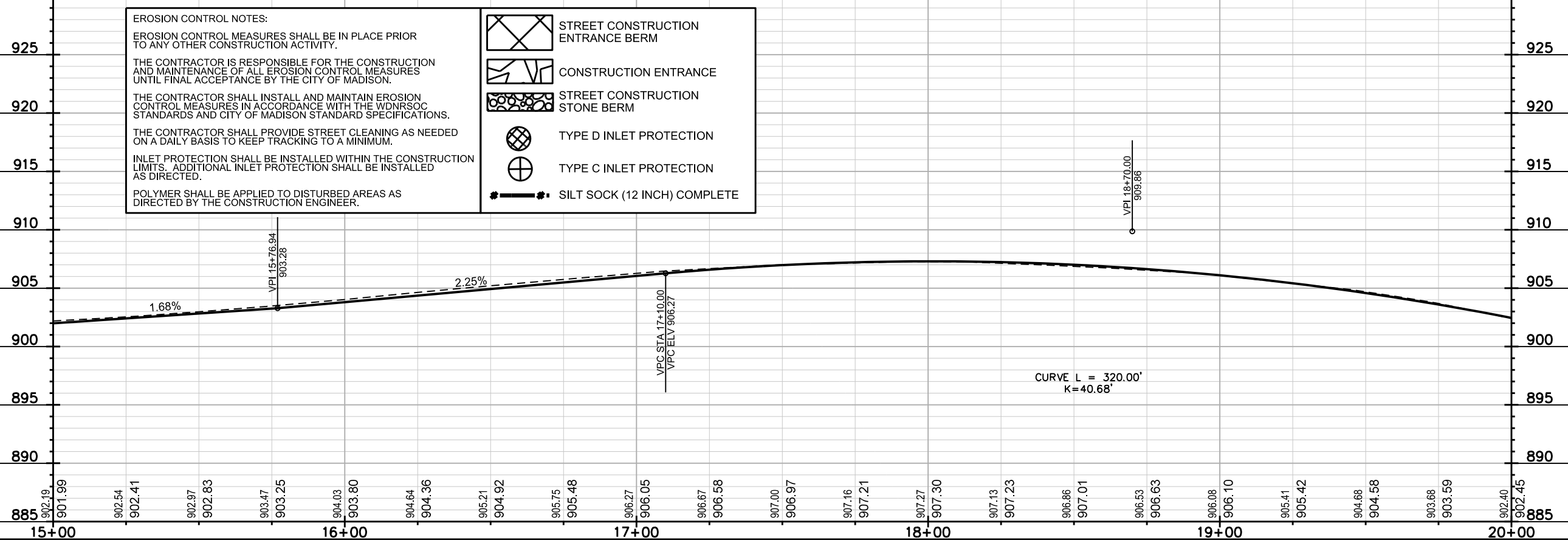
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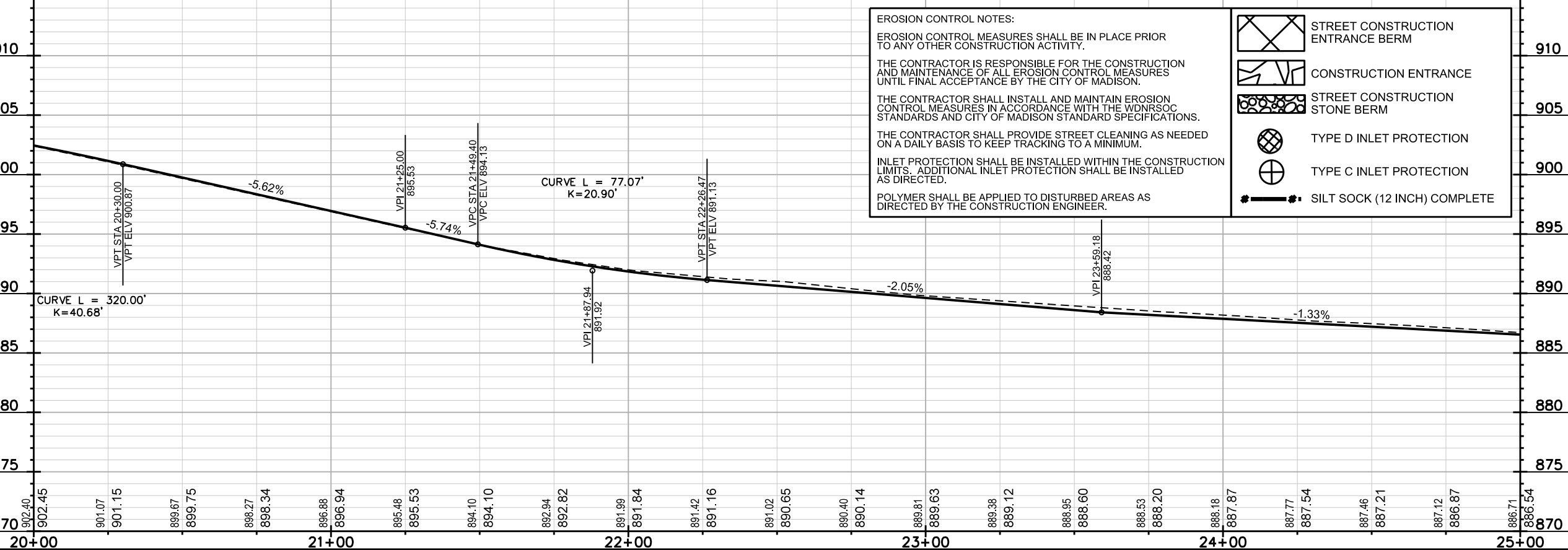
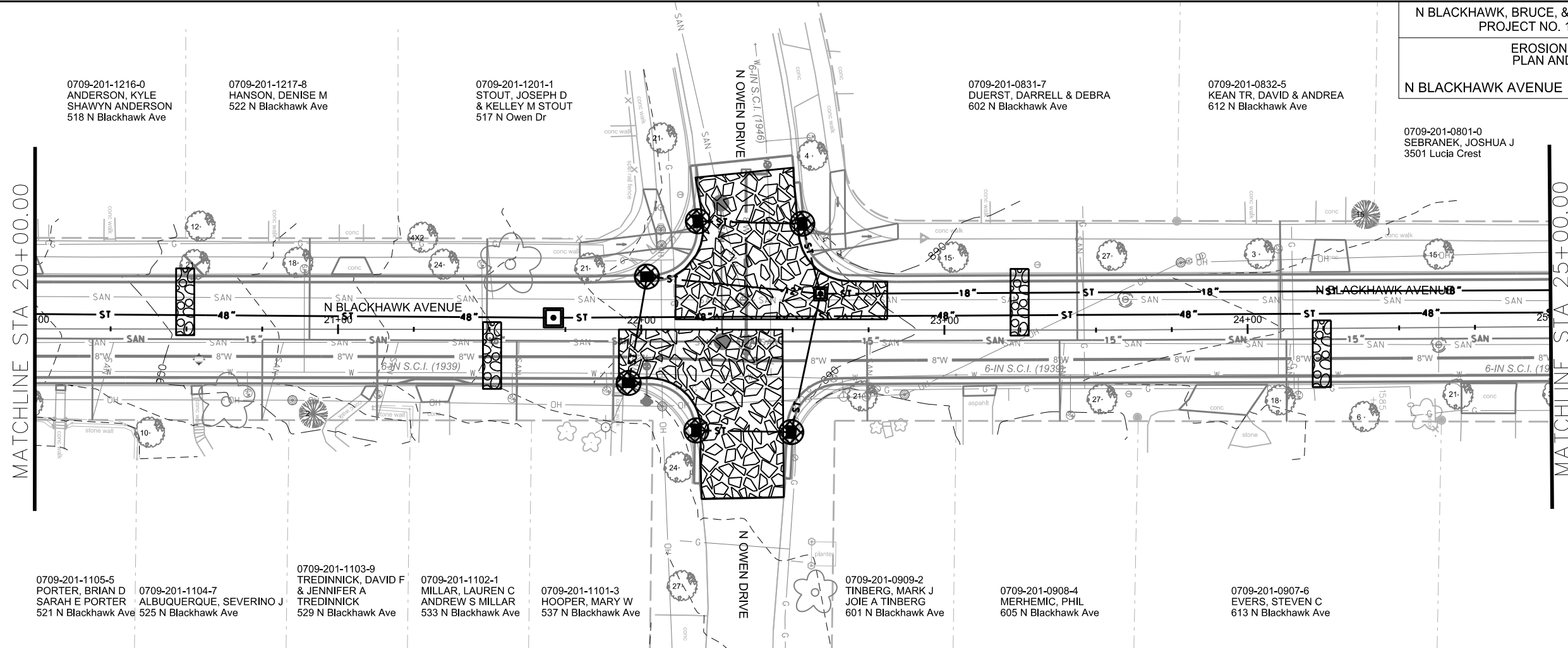
POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

	STREET CONSTRUCTION ENTRANCE BERM
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	STREET CONSTRUCTION STONE BERM
	TYPE D INLET PROTECTION
	TYPE C INLET PROTECTION
	SILT SOCK (12 INCH) COMPLETE



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

1. REPRINTED TO SHOW CHANGES MADE TO THE PROPOSED SANITARY SEWER MAIN AND STORM SEWER.



PLOT SCALE:

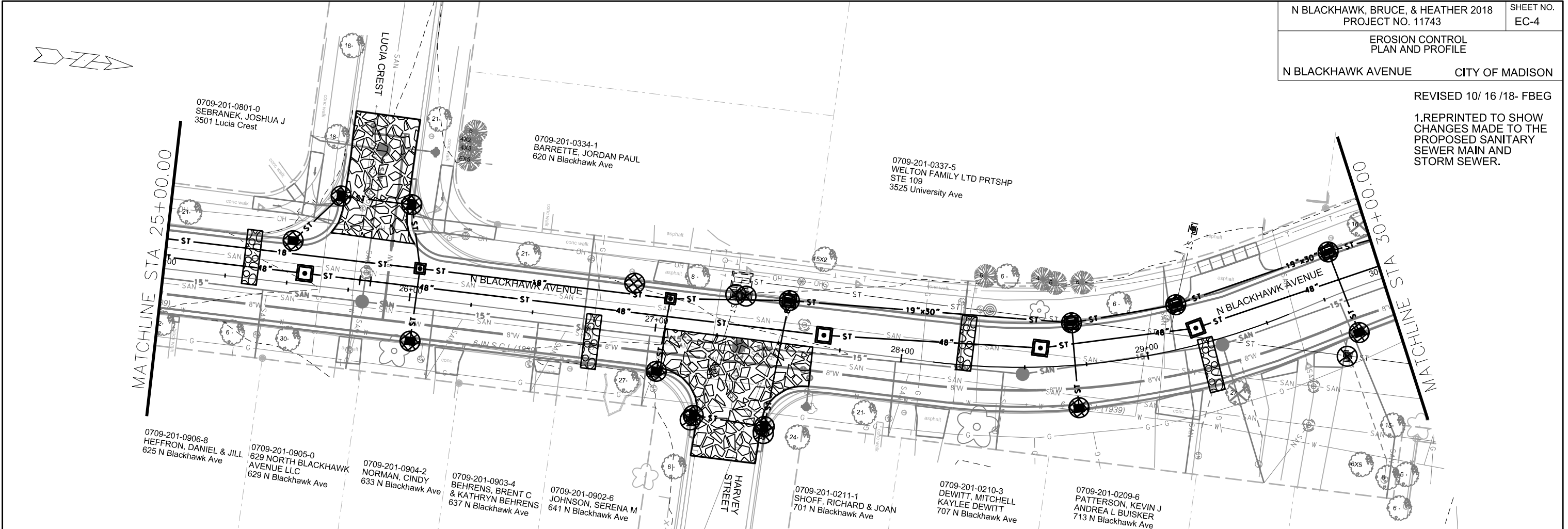
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 10/16/18- FBEG

1. REPRINTED TO SHOW CHANGES MADE TO THE PROPOSED SANITARY SEWER MAIN AND STORM SEWER.



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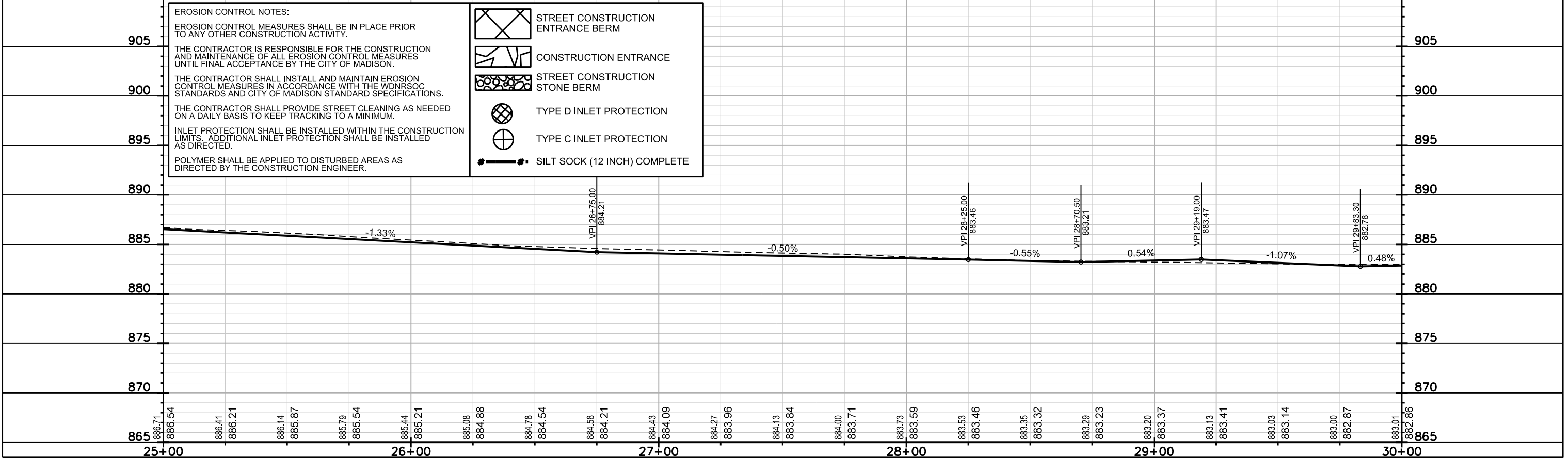
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REV. DATE:

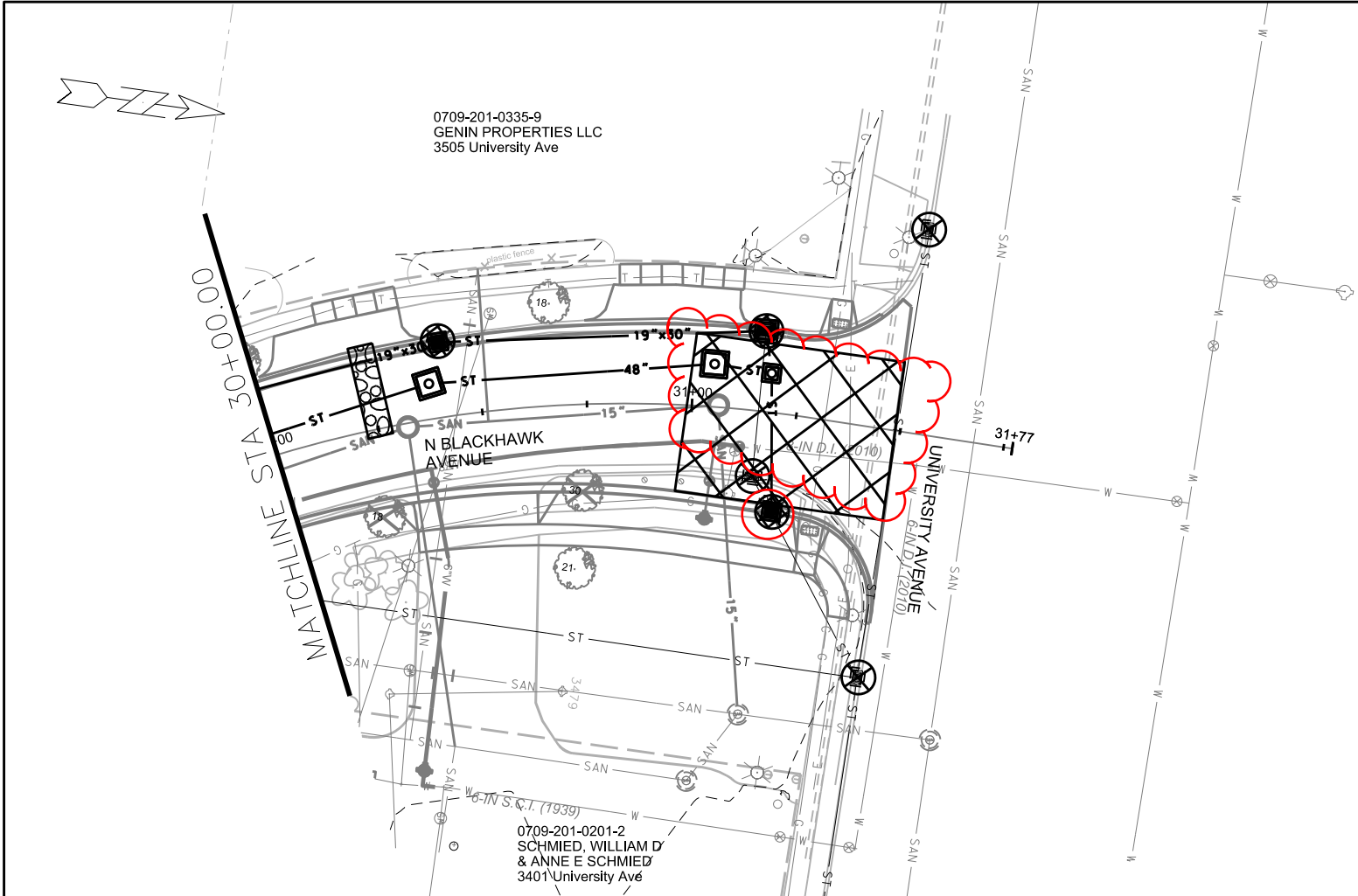
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL
PLAN AND PROFILE

N BLACKHAWK AVENUE CITY OF MADISON

REVISED 2/ 28/2019- FBEG

1. REPRINTED TO SHOW CHANGES MADE TO THE PROPOSED STORM SEWER.
2. ADDED ONE TYPE D INLET PROTECTION.
3. EXTENDED CONSTRUCTION ENTRANCE TO NEW PROJECT LIMITS.



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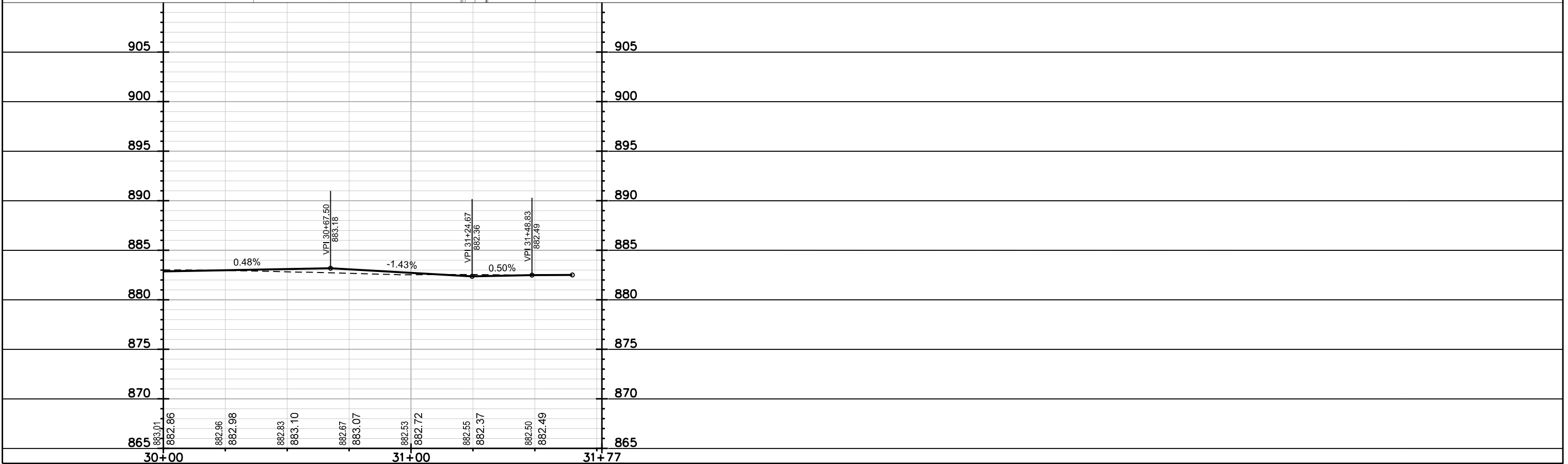
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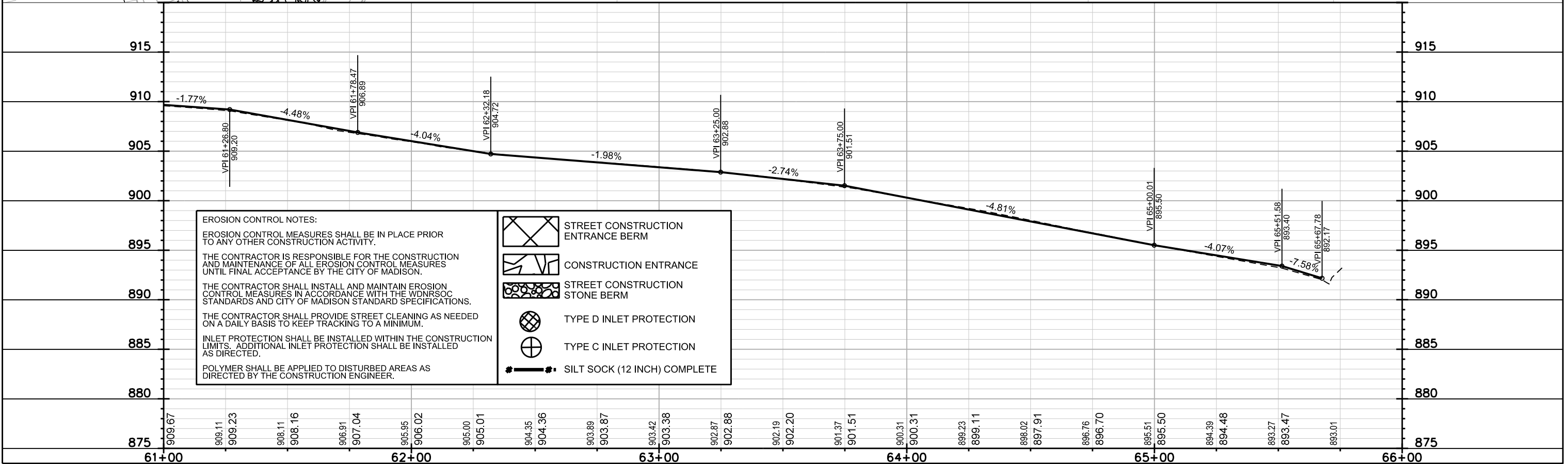
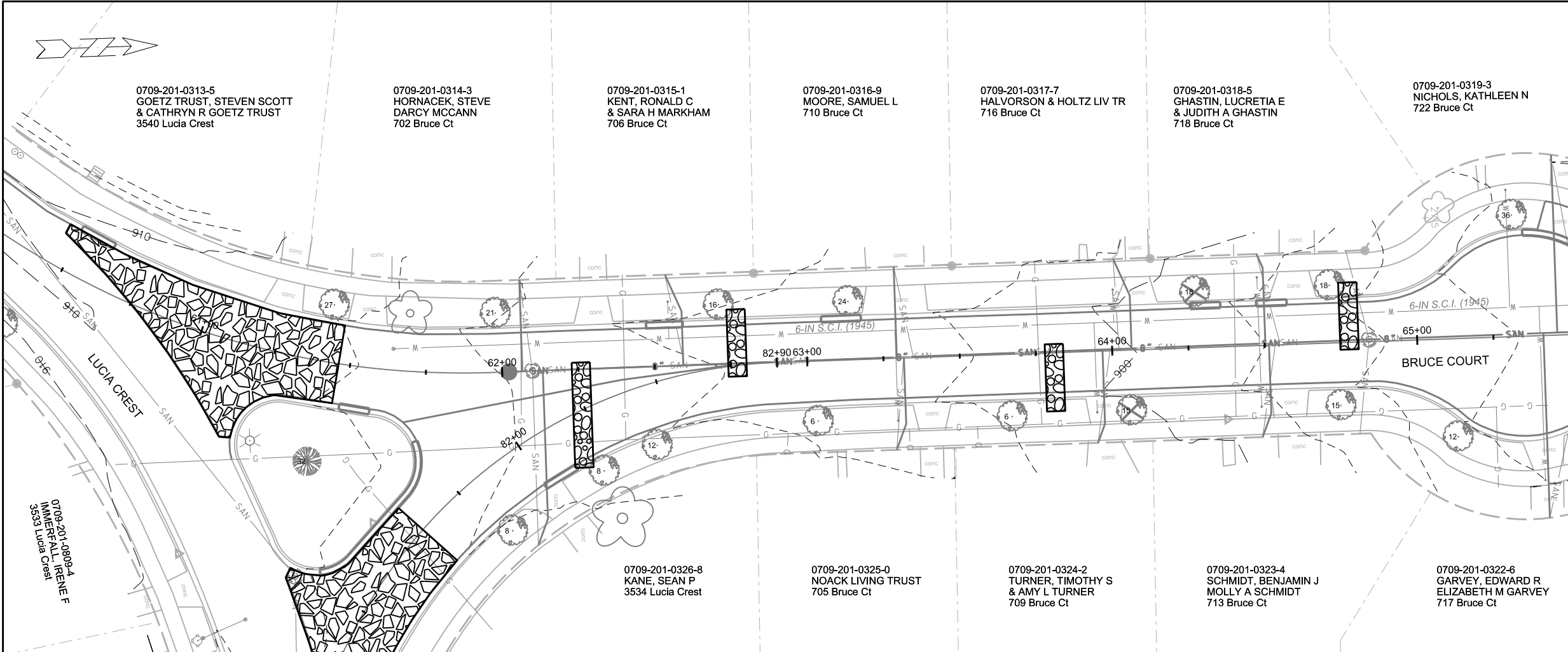
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	TYPE C INLET PROTECTION
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PLOT SCALE: _____ PLOT NAME: _____ REV. DATE: _____ ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL
PLAN AND PROFILE
BRUCE COURT CITY OF MADISON



EROSION CONTROL NOTES:

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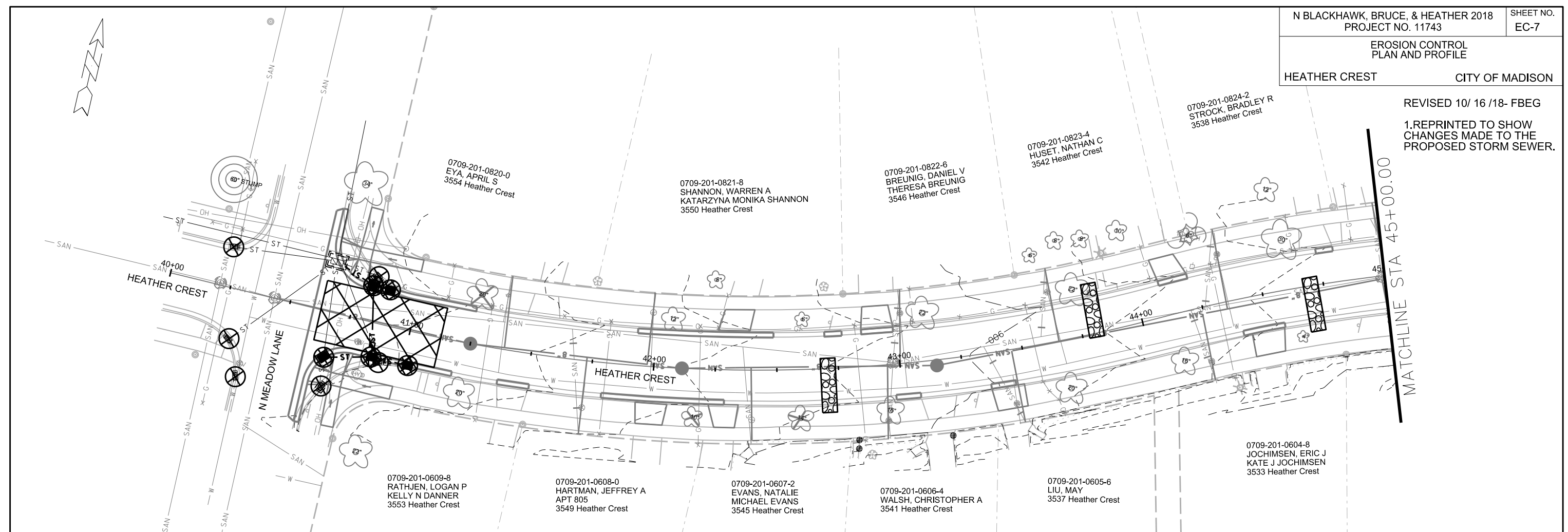
	STREET CONSTRUCTION ENTRANCE BERM
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	TYPE D INLET PROTECTION
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	SILT SOCK (12 INCH) COMPLETE

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

MATCHLINE STA 66+00.00

REVISED 10/ 16 /18- FBEG

1. REPRINTED TO SHOW
CHANGES MADE TO THE
PROPOSED STORM SEWER.



EROSION CONTROL NOTES:

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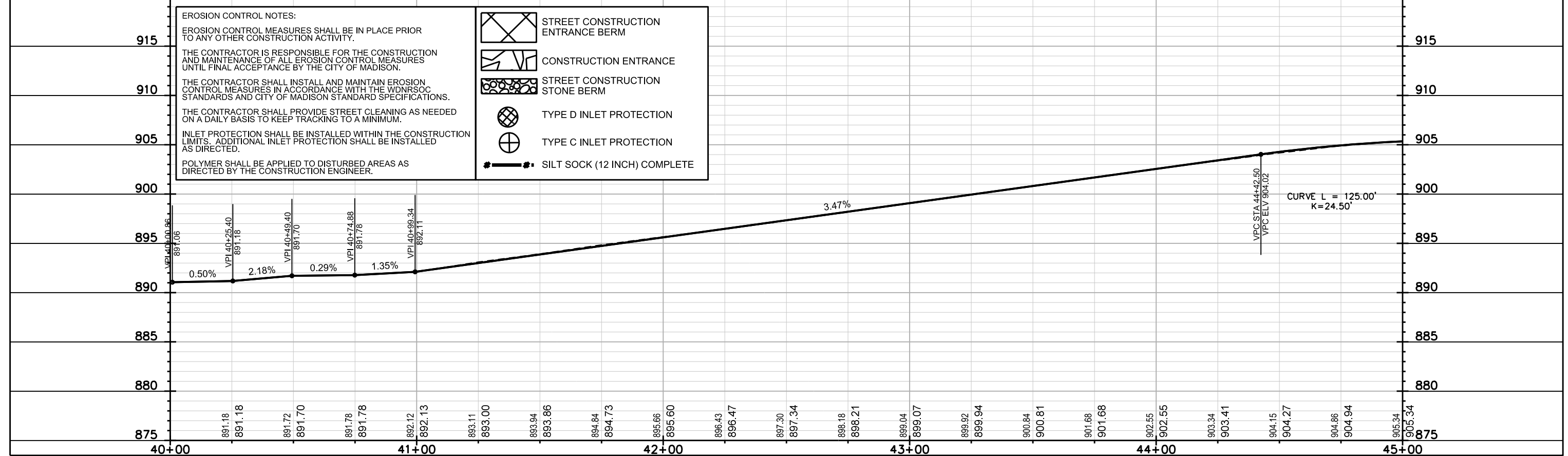
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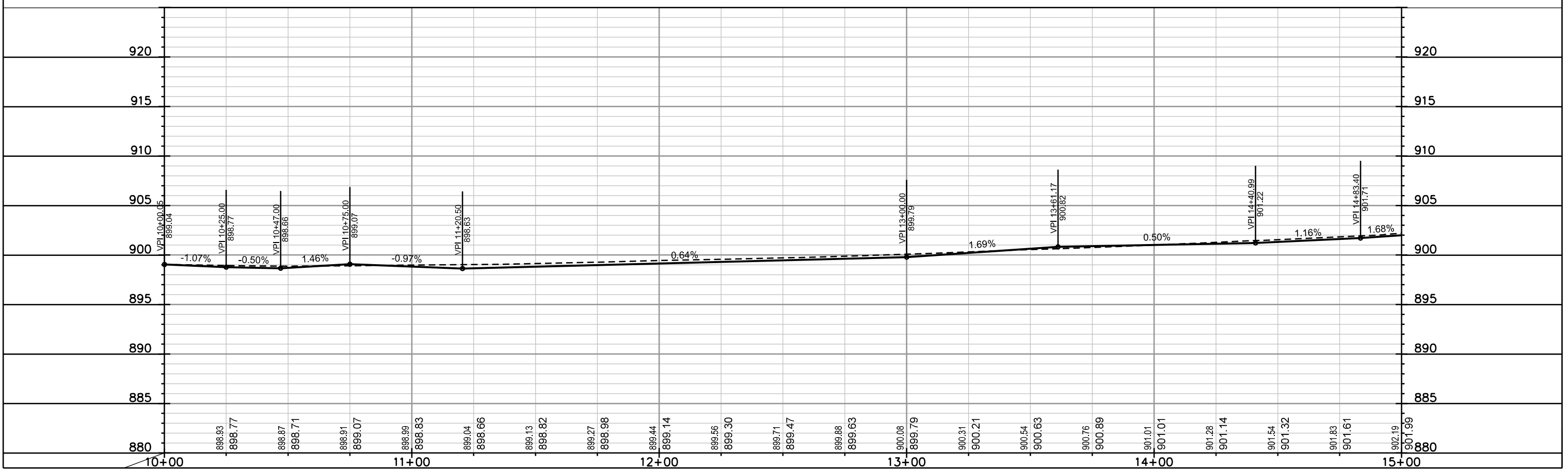
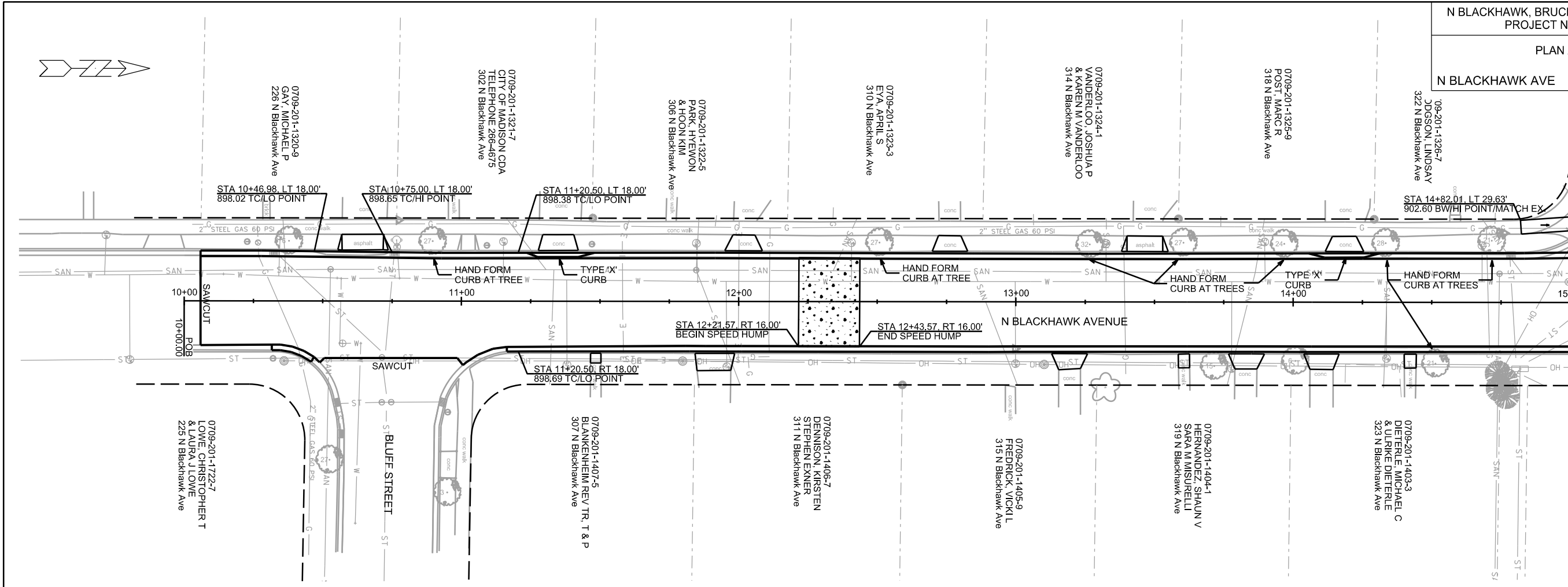
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PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE
N BLACKHAWK AVE CITY OF MADISON

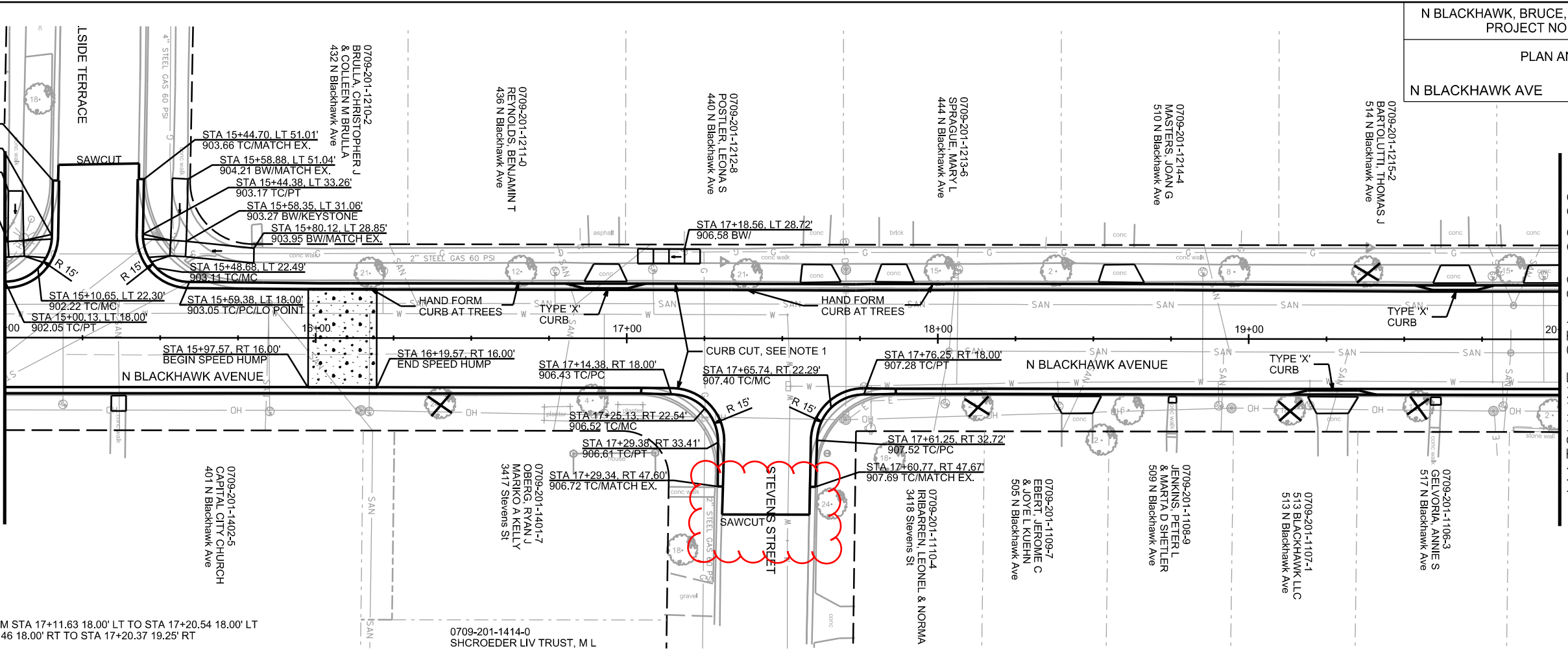
REV 8-29-18 CWD
REV 3-1-19 CWD

REV. 3-1-19 CWD:
Extended paving limits on Stevens Street for WU additions

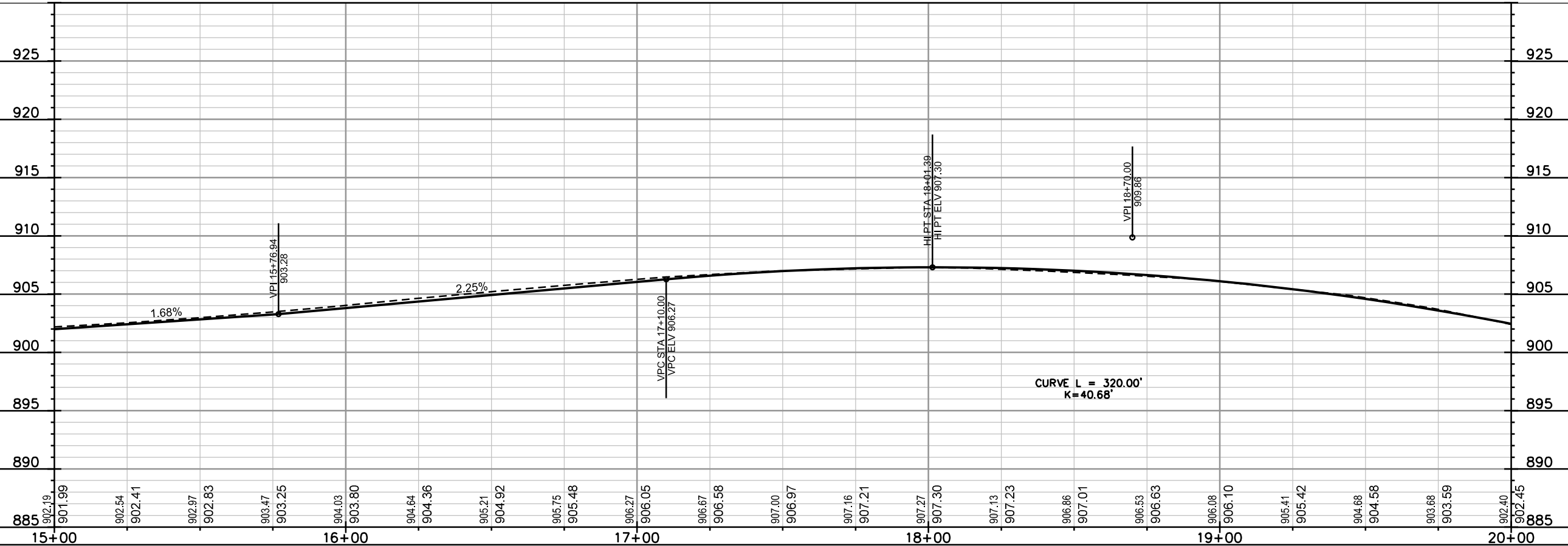


STA 15+15.45, LT 50.52'
903.00 TC/MATCH EX.
STA 15+15.13, LT 32.74'
902.39 TC/PC
STA 15+01.17, LT 47.19'
903.27 BW/MATCH EX.
STA 15+01.01, LT 30.91'
902.28 BW/KEYSTONE

MATCHLINE STA 15+00.00



NOTES
1. INSTALL CURB CUTS FROM STA 17+11.63 18.00' LT TO STA 17+20.54 18.00' LT AND FROM STA 17+11.46 18.00' RT TO STA 17+20.37 19.25' RT

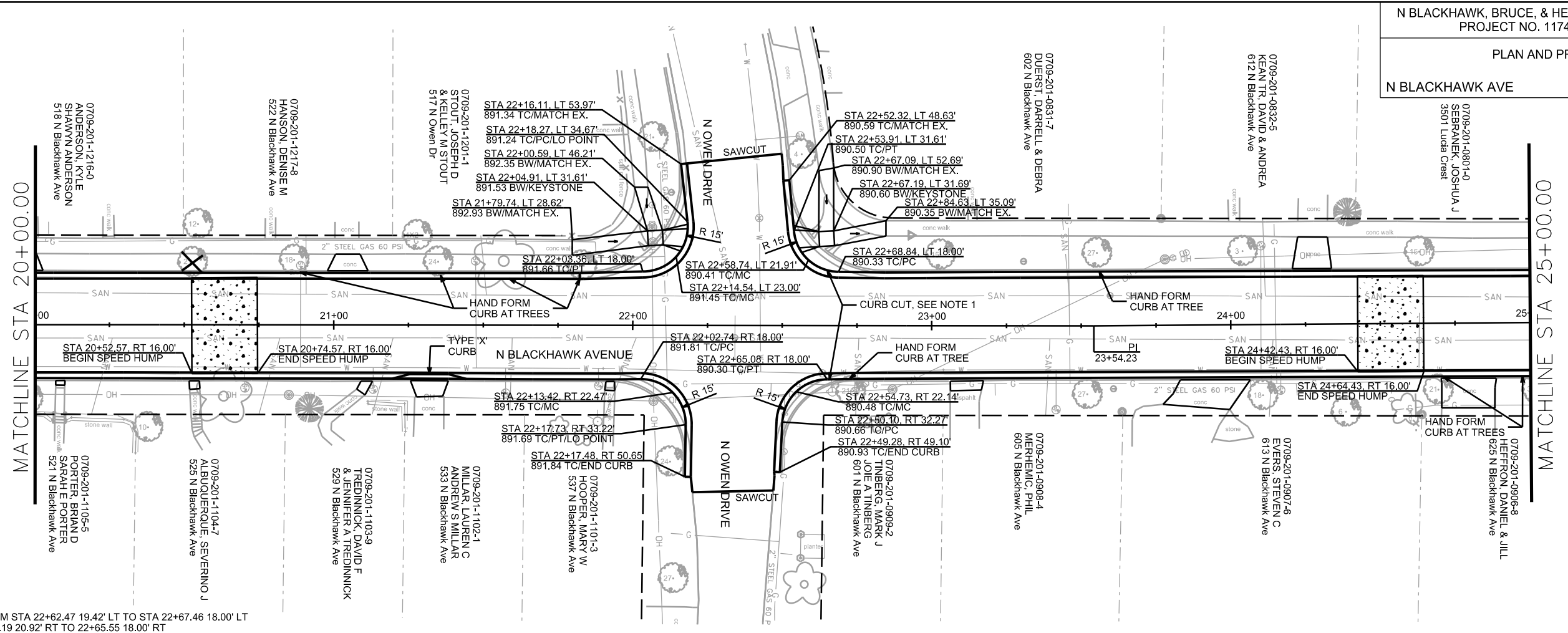


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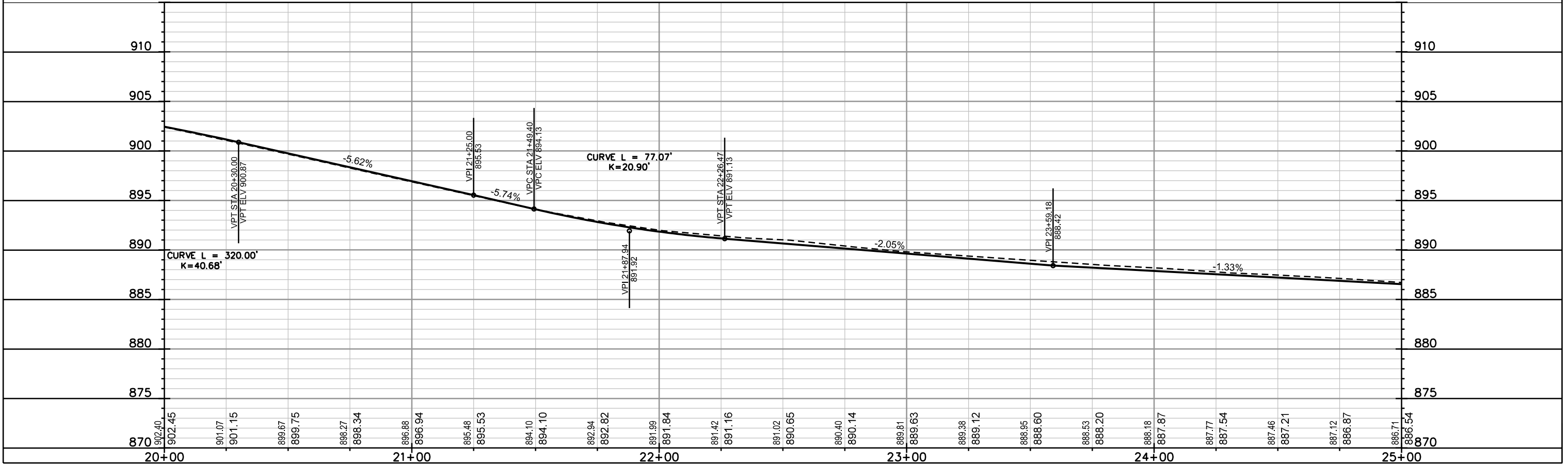
PLAN AND PROFILE

N BLACKHAWK AVE CITY OF MADISON

REV 8-29-18 CWD



NOTES:
1. INSTALL CURB CUTS FROM STA 22+62.47 19.42' LT TO STA 22+67.46 18.00' LT AND FROM STA 22+56.19 20.92' RT TO 22+65.55 18.00' RT



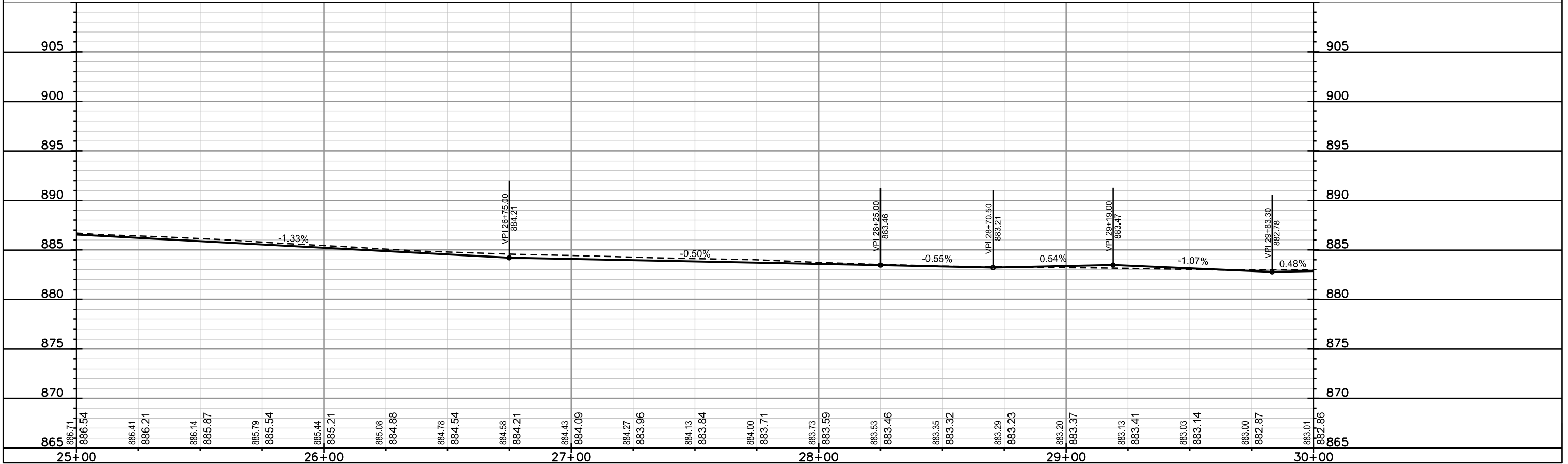
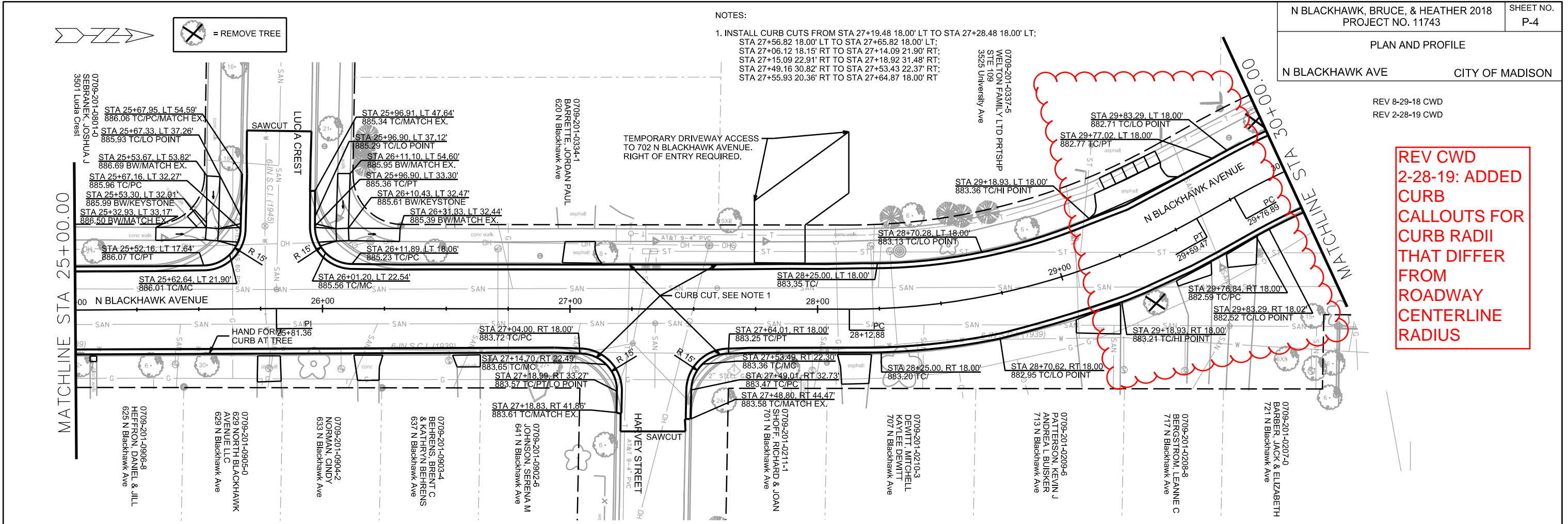
PLOT SCALE: _____ PLOT NAME: _____ REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV 8-29-18 CWD
REV 2-28-19 CWD

REV CWD
2-28-19: ADDED
CURB
CALLOUTS FOR
CURB RADII
THAT DIFFER
FROM
ROADWAY
CENTERLINE
RADIUS

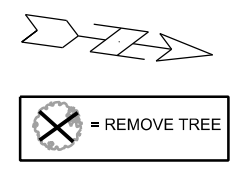
- NOTES:
- INSTALL CURB CUTS FROM STA 27+19.48 18.00' LT TO STA 27+28.48 18.00' LT;
STA 27+56.82 18.00' LT TO STA 27+65.82 18.00' LT;
STA 27+06.12 18.15' RT TO STA 27+14.09 21.90' RT;
STA 27+15.09 22.91' RT TO STA 27+18.92 31.48' RT;
STA 27+49.16 30.82' RT TO STA 27+53.43 22.37' RT;
STA 27+55.93 20.36' RT TO STA 27+64.87 18.00' RT



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

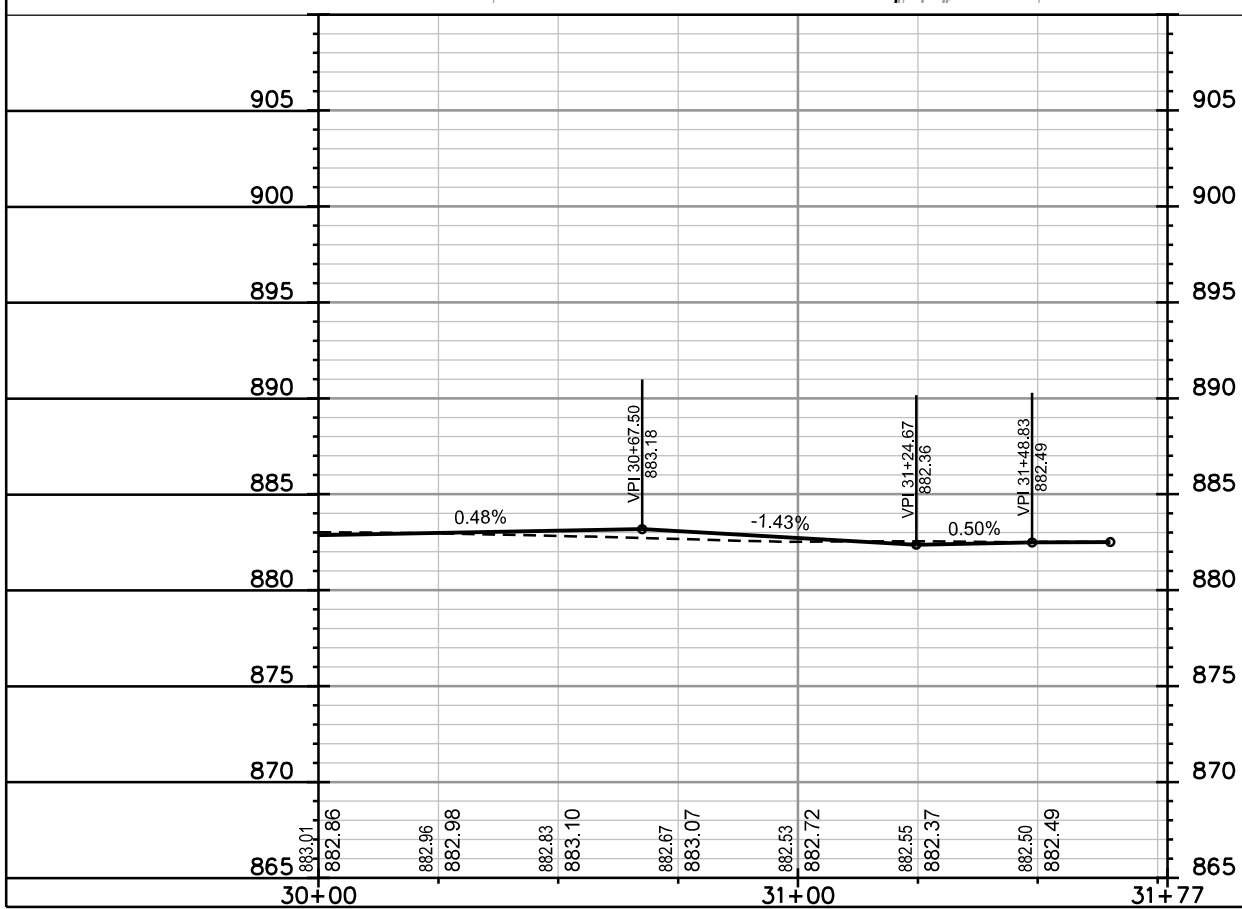
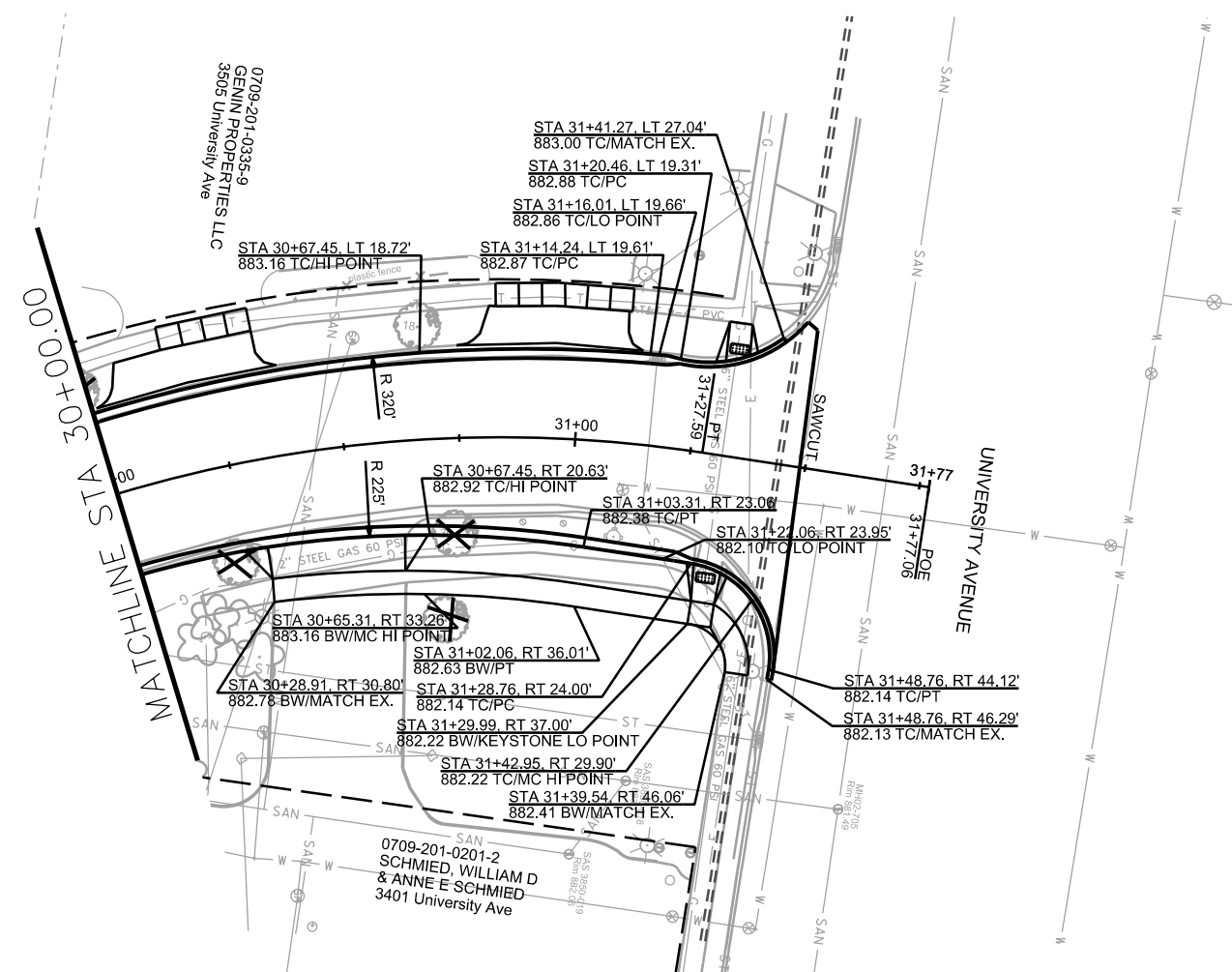
PLAN AND PROFILE
N BLACKHAWK AVE CITY OF MADISON

REV 2-28-19 CWD



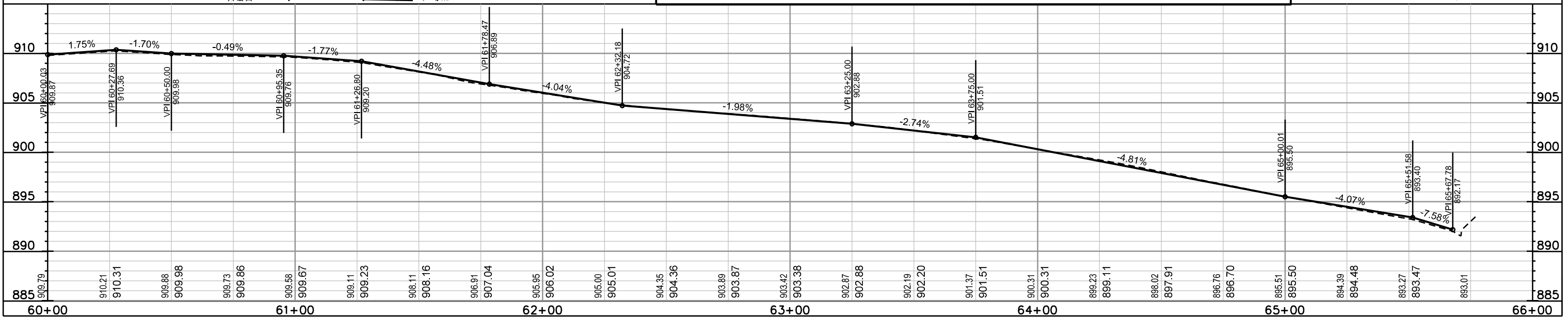
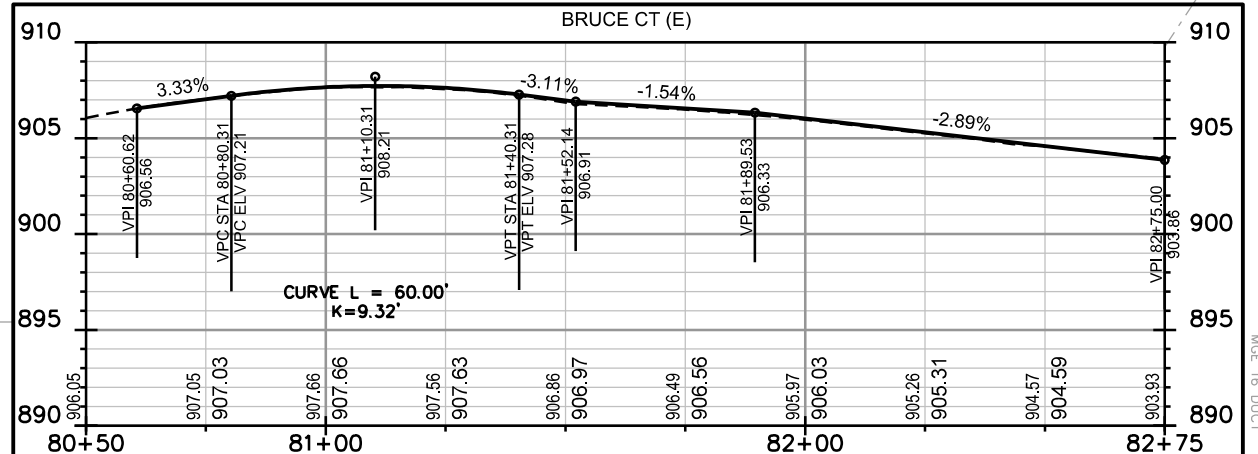
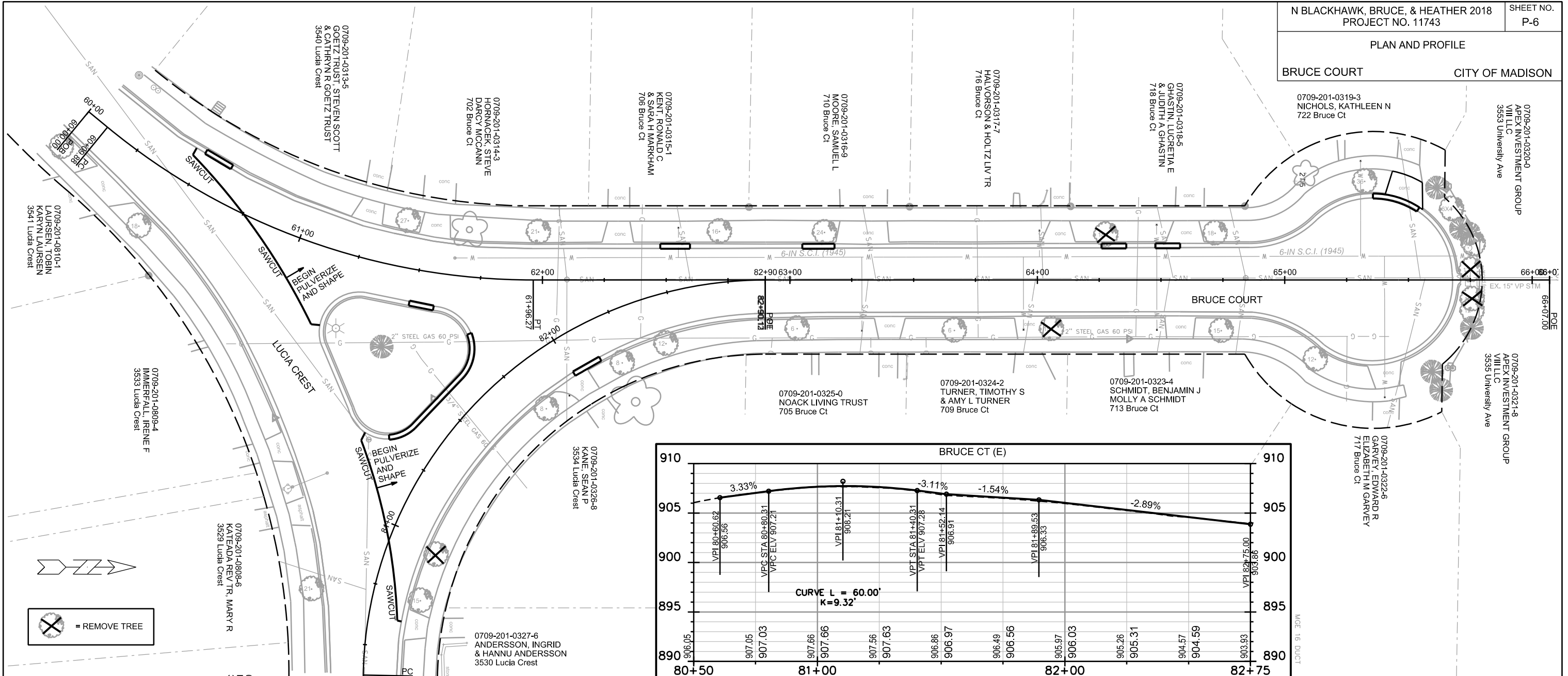
NOTES:
1. TRANSITION TO TYPE 'H' CURB FROM CURB LOW POINTS TO CURB PC/PT TOWARDS UNIVERSITY AVE.

**REV CWD
2-28-19:
EXTENDED
PAVING LIMITS
AND REVISED
CENTERLINE,
CURB,
SIDEWALK FOR
ADDITION OF
NB TURN LANE.
ADD. 21" TREE
REMOVAL
NEAR PR.
SIDEWALK
HIGH POINT**



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

PLAN AND PROFILE
BRUCE COURT CITY OF MADISON



PLOT SCALE: _____

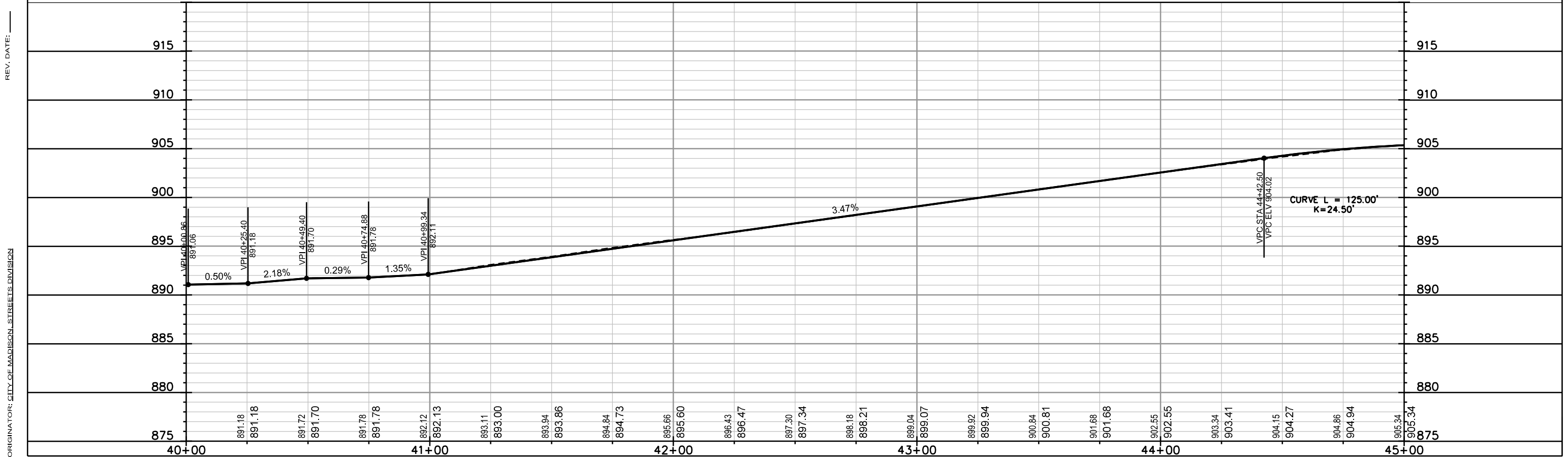
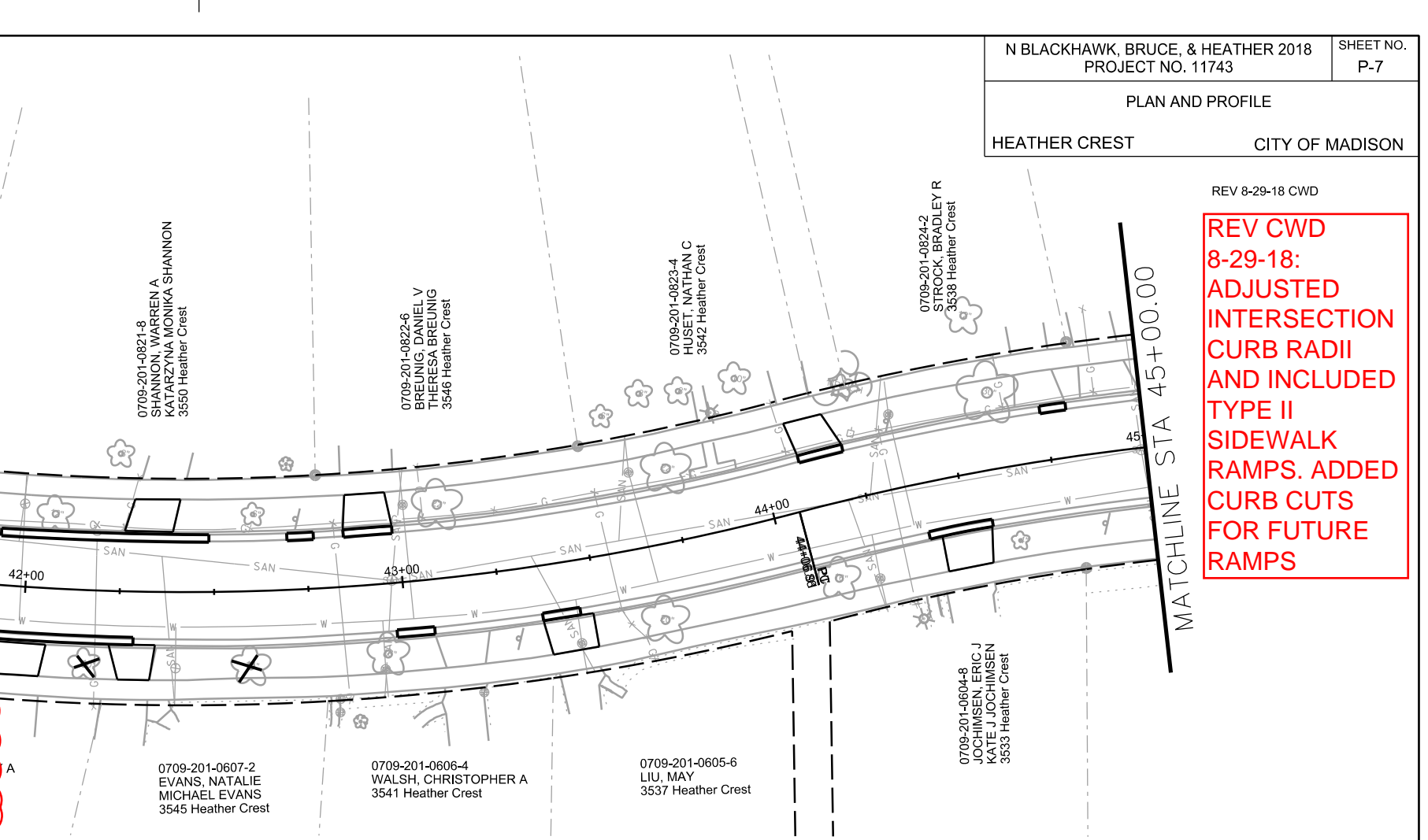
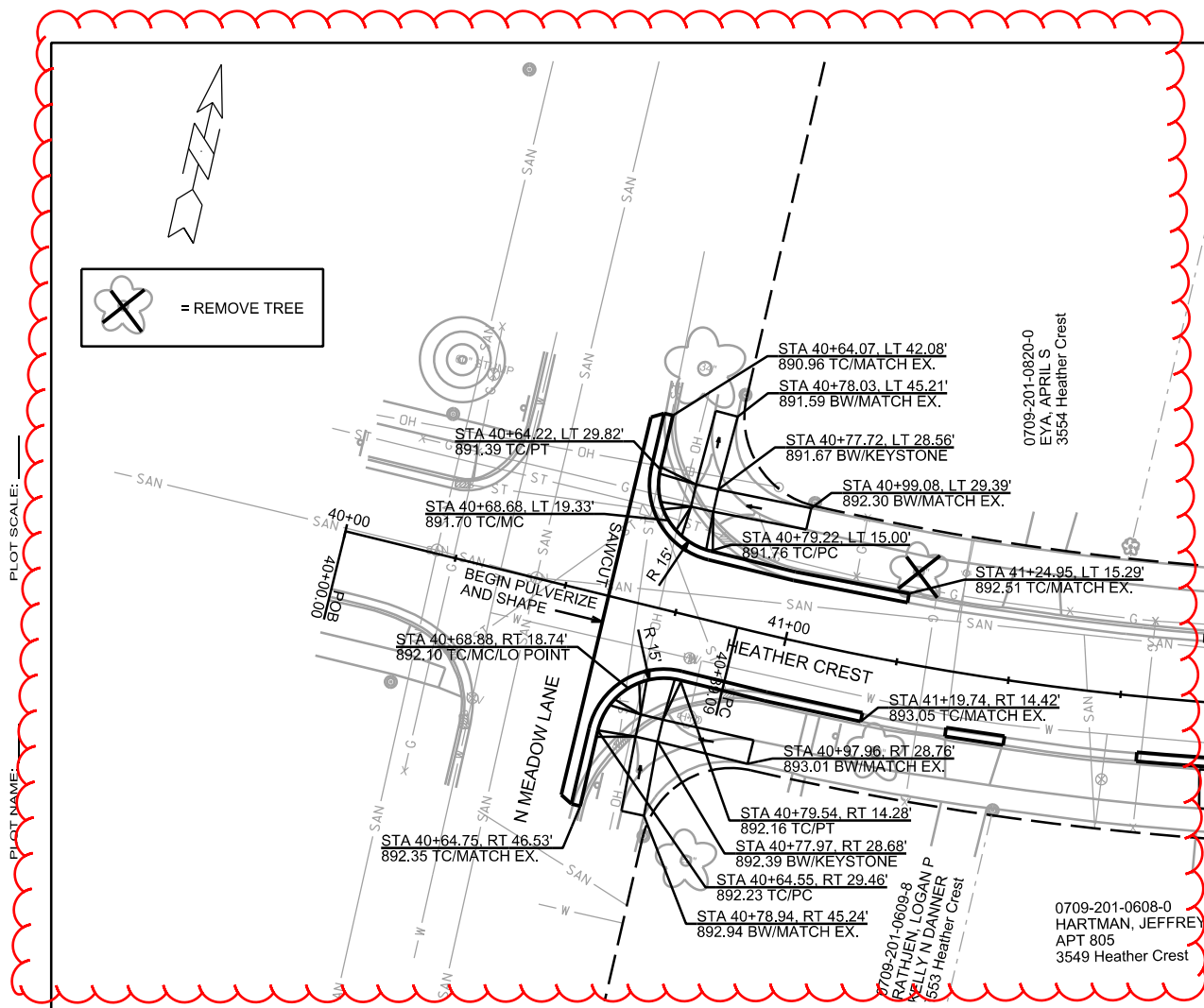
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV 8-29-18 CWD

**REV CWD
8-29-18:
ADJUSTED
INTERSECTION
CURB RADII
AND INCLUDED
TYPE II
SIDEWALK
RAMPS. ADDED
CURB CUTS
FOR FUTURE
RAMPS**

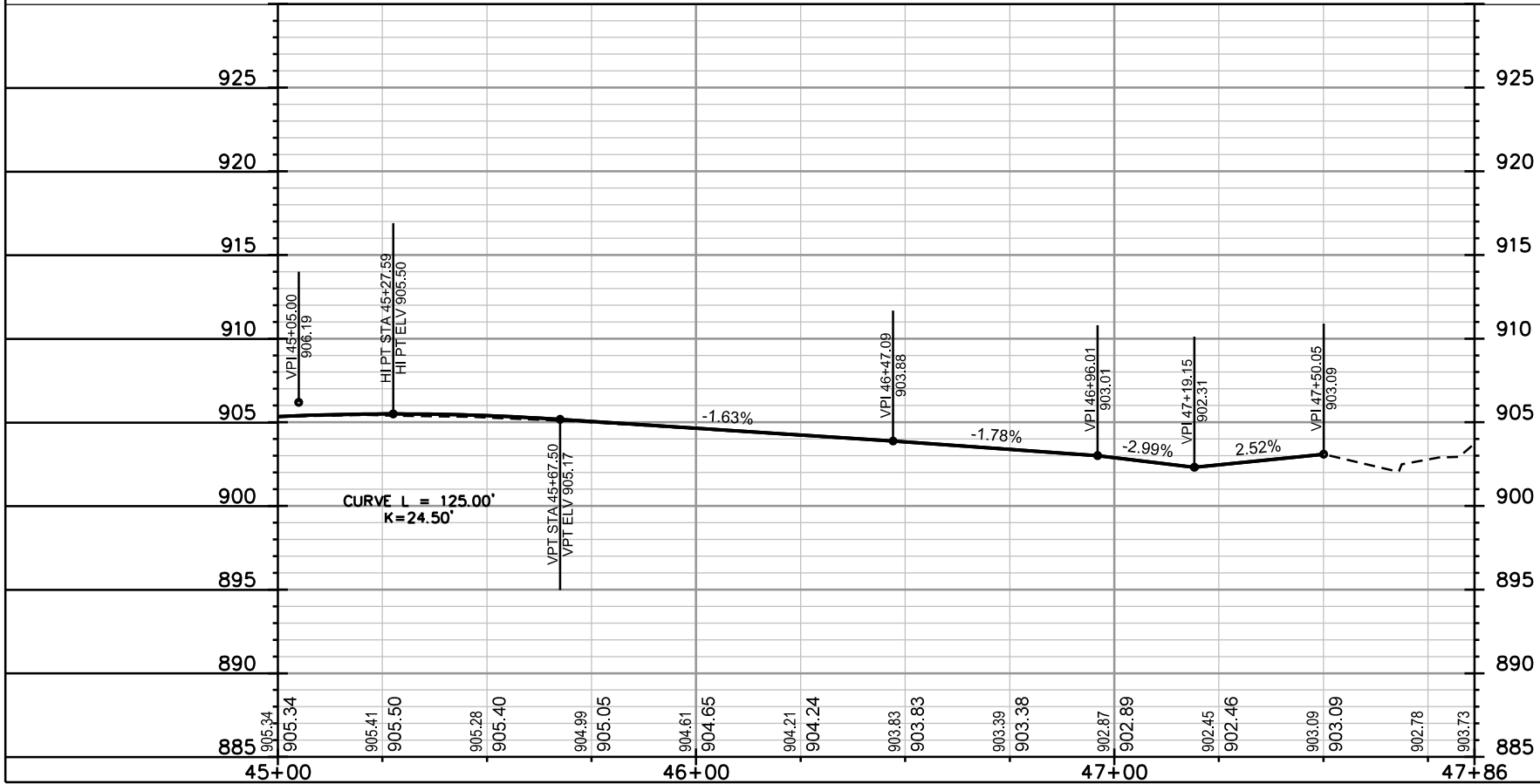
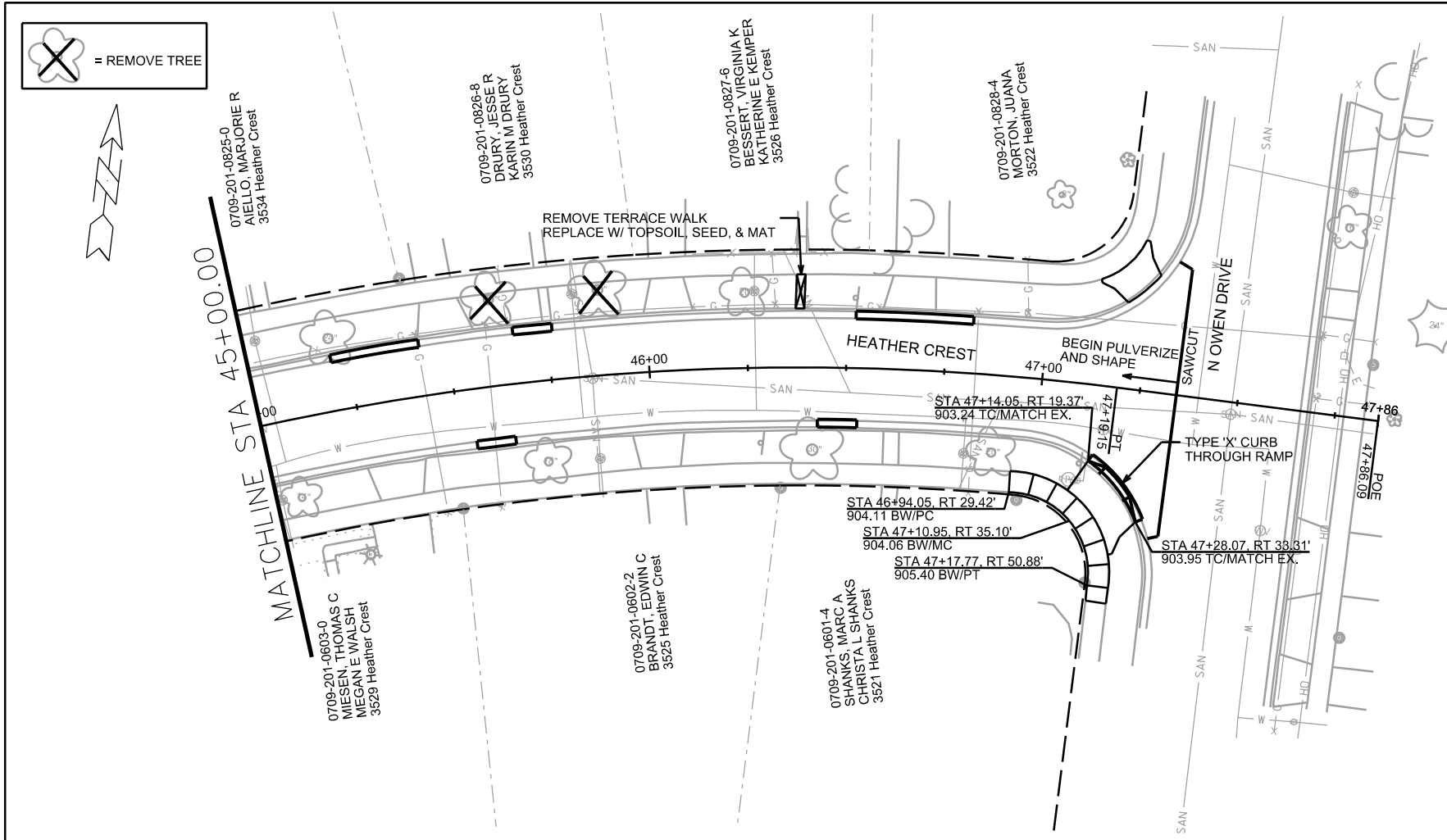


ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE:

REV. DATE:

PLAN AND PROFILE
HEATHER CREST CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0709-201-1320-9
GAY, MICHAEL P
226 N Blackhawk Ave

0709-201-1321-7
CITY OF MADISON CDA
TELEPHONE 266-4675
302 N Blackhawk Ave

0709-201-1322-5
PARK, HYEWON
& HOON KIM
306 N Blackhawk Ave

0709-201-1323-3
EYA, APRIL S
310 N Blackhawk Ave

0709-201-1324-1
VANDERLOO, JOSHUA P
& KAREN M VANDERLOO
314 N Blackhawk Ave

0709-201-1325-9
POST, MARC R
318 N Blackhawk Ave

N BLACKHAWK, BRUCE, & HEATHER 2018
PROJECT NO. 11743

SHEET NO.
ST-1

STORM SEWER
PLAN AND PROFILE

N BLACKHAWK AVENUE CITY OF MADISON

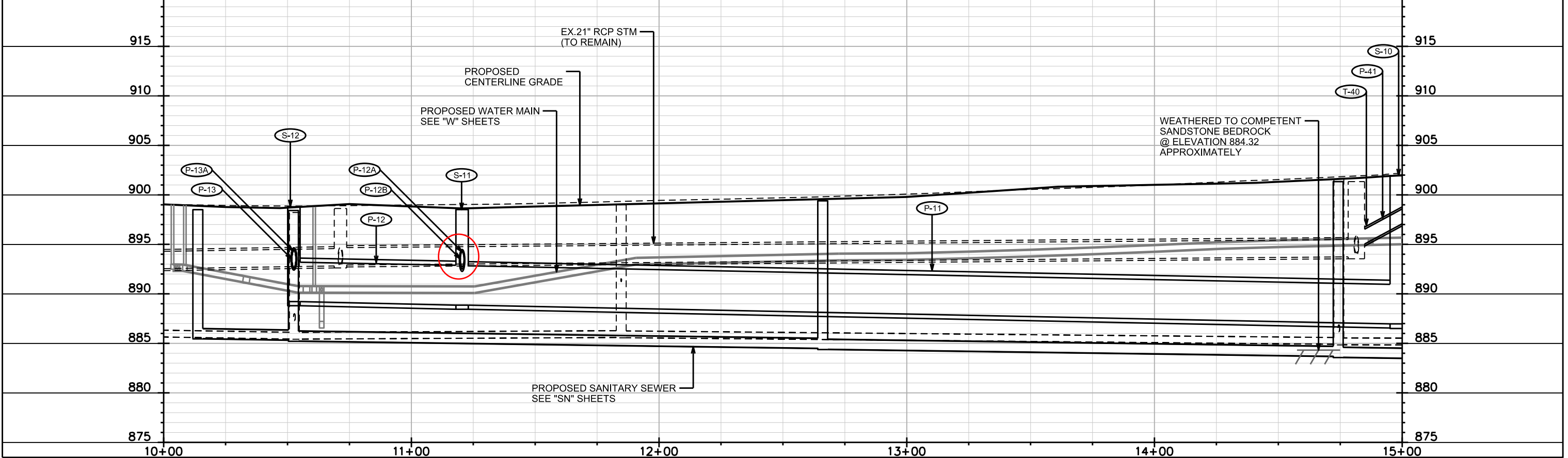
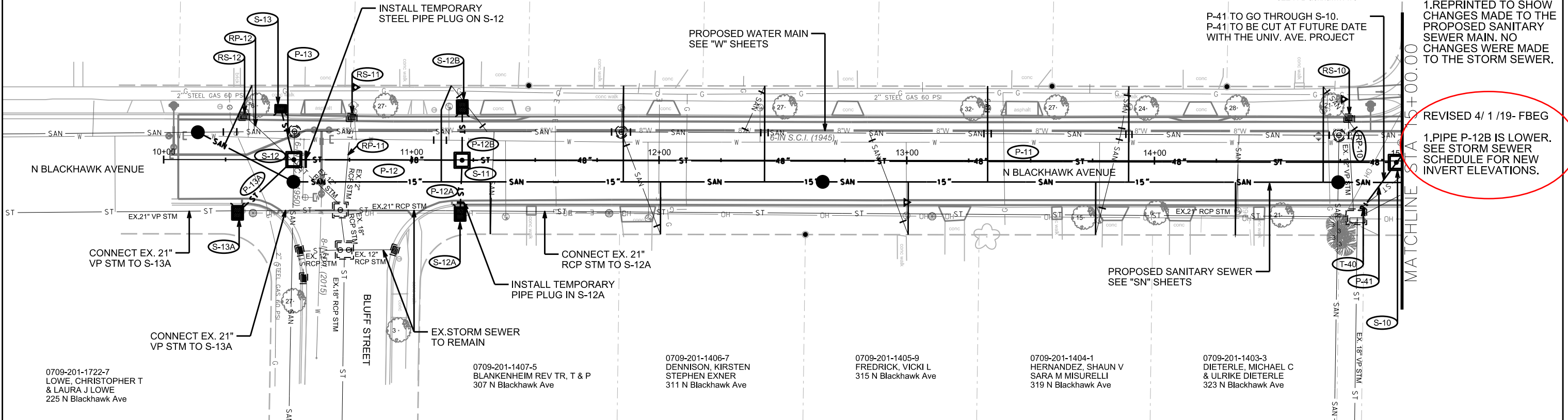
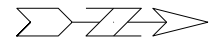
0709-201-1326-7
HODGSON, LINDSAY
322 N Blackhawk Ave

REVISED 10/ 16 /18- FBEG

1. REPRINTED TO SHOW CHANGES MADE TO THE PROPOSED SANITARY SEWER MAIN. NO CHANGES WERE MADE TO THE STORM SEWER.

REVISED 4/ 1 /19- FBEG

1. PIPE P-12B IS LOWER. SEE STORM SEWER SCHEDULE FOR NEW INVERT ELEVATIONS.

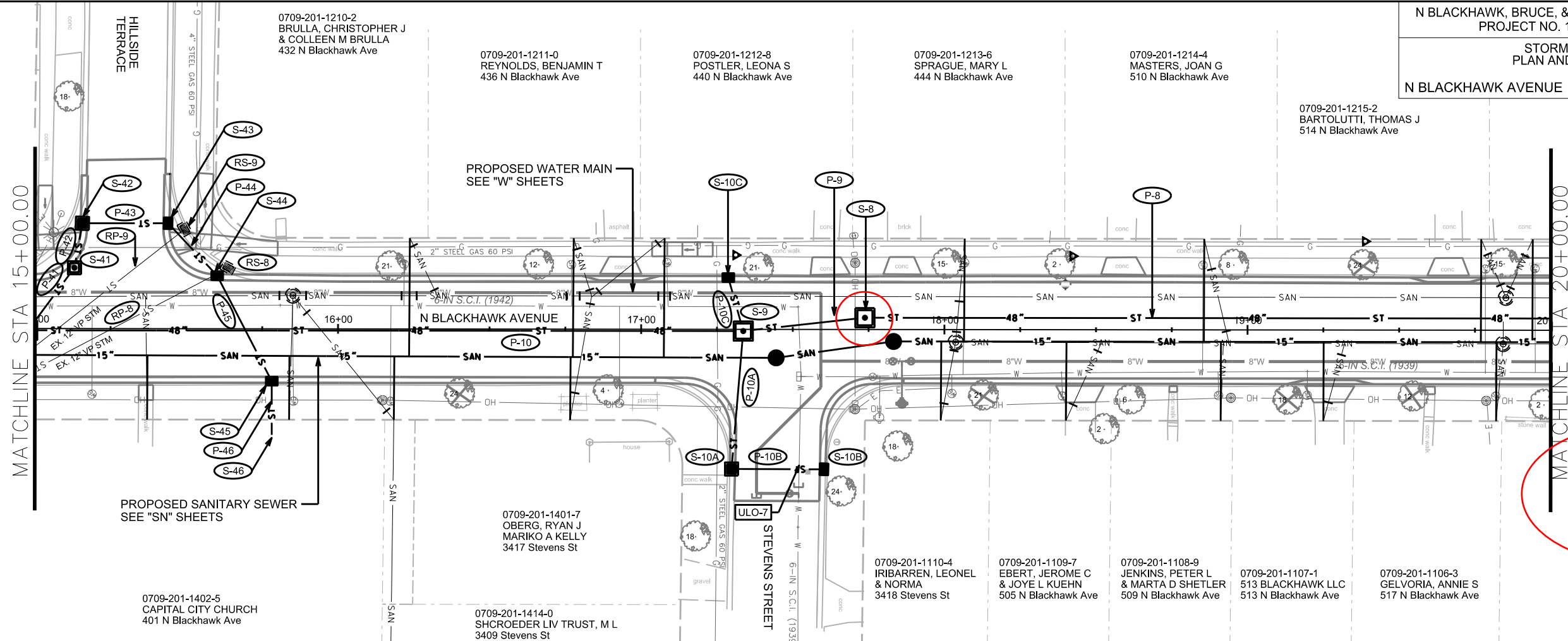


PLOT SCALE:

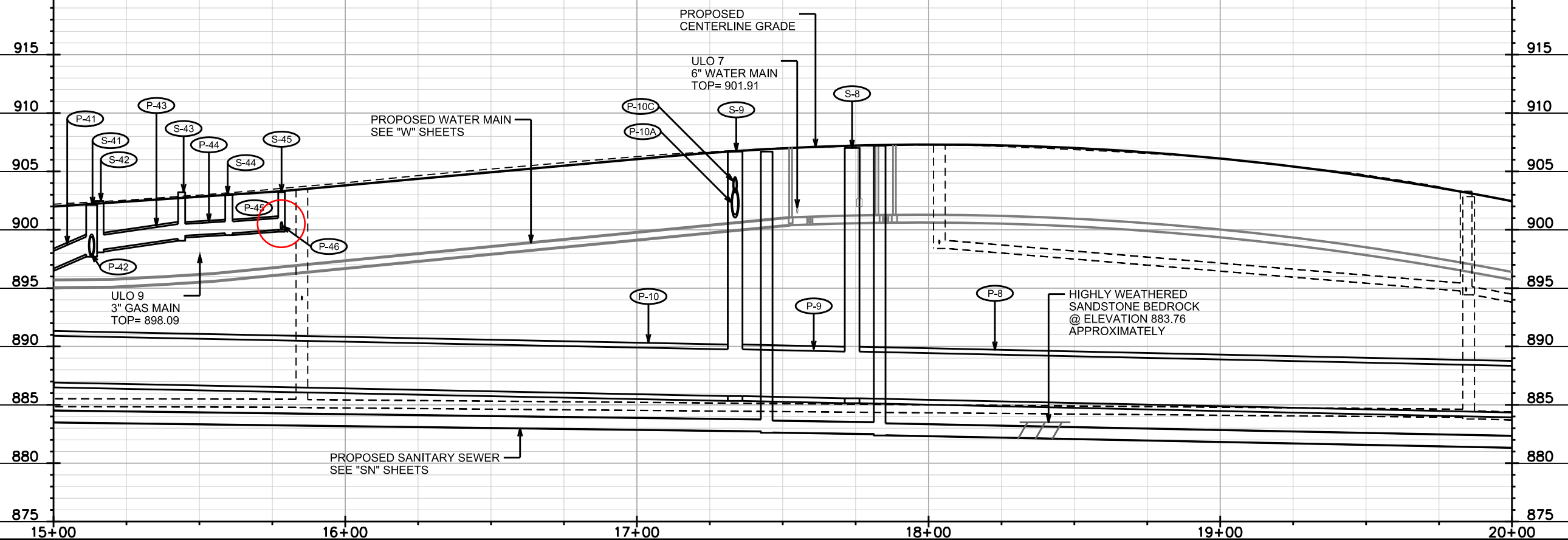
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



- REVISED 10/ 16 /18- FBEG
- 1.S-42 & S-43 HAVE NEW LOCATION.
 - 2.P-42, P-43, P-44, & P-45 HAVE NEW LENGTHS (SEE SHEET ST-7).
 - 3.REMOVED ULO-10 & ULO-8.
- REVISED 3/ 1/ 2019- FBEG
1. REPRINTED TO SHOW REVISED WATER MAIN AT STEVENS STREET. NO CHANGES WERE MADE TO THE STORM SEWER.
- REVISED 4/ 1/ 19- FBEG
1. ADDED PRIVATE STORM SEWER LATERAL TO 401 N. BLACKHAWK AVE.
 2. RELOCATED S-8



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

REVISED 10/ 16/ 18- FBEG

1. REPRINTED TO SHOW
CHANGES MADE TO THE
PROPOSED STORM
SEWER ON SHEET ST-3B.

0709-201-1216-0
ANDERSON, KYLE
SHAWYN ANDERSON
518 N Blackhawk Ave

0709-201-1217-8
HANSON, DENISE M
522 N Blackhawk Ave

0709-201-1201-1
STOUT, JOSEPH D
& KELLEY M STOUT
517 N Owen Dr

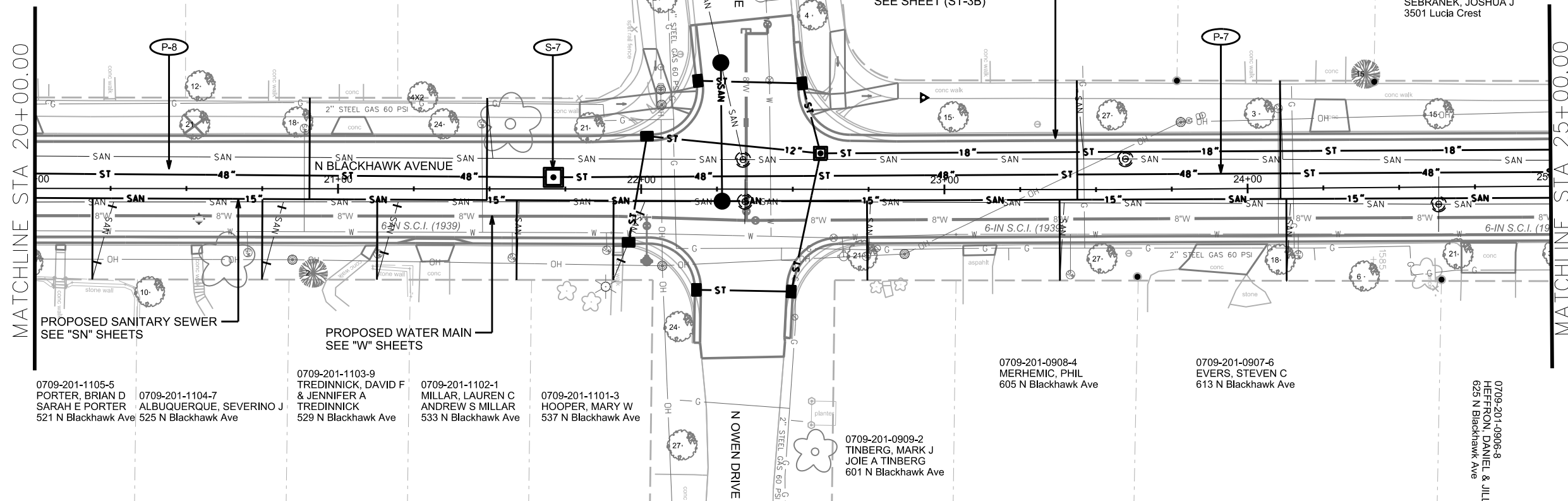
0709-201-0831-7
DUERST, DARRELL & DEBRA
602 N Blackhawk Ave

0709-201-0832-5
KEAN TR, DAVID & ANDREA
612 N Blackhawk Ave

0709-201-0801-0
SEBRANEK, JOSHUA J
3501 Lucia Crest

MATCHLINE STA 20+00.00

MATCHLINE STA 25+00.00



0709-201-1105-5
PORTER, BRIAN D
SARAH E PORTER
521 N Blackhawk Ave

0709-201-1104-7
ALBUQUERQUE, SEVERINO J
525 N Blackhawk Ave

0709-201-1103-9
TREDINNICK, DAVID F
& JENNIFER A
TREDINNICK
529 N Blackhawk Ave

0709-201-1102-1
MILLAR, LAUREN C
ANDREW S MILLAR
533 N Blackhawk Ave

0709-201-1101-3
HOOVER, MARY W
537 N Blackhawk Ave

0709-201-0908-4
MERHEMIC, PHIL
605 N Blackhawk Ave

0709-201-0907-6
EVERS, STEVEN C
613 N Blackhawk Ave

0709-201-0909-2
TINBERG, MARK J
JOIE A TINBERG
601 N Blackhawk Ave

0709-201-0906-8
HEFFRON, DANIEL & JILL
625 N Blackhawk Ave



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 10/ 16/ 18- FBEG

1.S-31 & S-30 HAVE NEW LOCATIONS.

2.S-31A & P-31A ARE REMOVED FROM PLANS.

3.P-29 IS UNDER THE STREET, NOT THE CURB.

0709-201-1216-0
ANDERSON, KYLE
SHAWYN ANDERSON
518 N Blackhawk Ave

0709-201-1217-8
HANSON, DENISE M
522 N Blackhawk Ave

0709-201-1201-1
STOUT, JOSEPH D
& KELLEY M STOUT
517 N Owen Dr

0709-201-0831-7
DUERST, DARRELL & DEBRA
602 N Blackhawk Ave

0709-201-0832-5
KEAN TR, DAVID & ANDREA
612 N Blackhawk Ave

0709-201-0801-0
SEBRANEK, JOSHUA J
3501 Lucia Crest

PROPOSED 48" STORM SEWER
SEE SHEETS "ST-3A"

PROPOSED SANITARY SEWER
SEE "SN" SHEETS

PROPOSED WATER MAIN
SEE "W" SHEETS

0709-201-1105-5
PORTER, BRIAN D
SARAH E PORTER
521 N Blackhawk Ave

0709-201-1104-7
ALBUQUERQUE, SEVERINO J
525 N Blackhawk Ave

0709-201-1103-9
TREDINNICK, DAVID F
& JENNIFER A
TREDINNICK
529 N Blackhawk Ave

0709-201-1102-1
MILLAR, LAUREN C
ANDREW S MILLAR
533 N Blackhawk Ave

0709-201-1101-3
HOOPER, MARY W
537 N Blackhawk Ave

0709-201-0909-2
TINBERG, MARK J
JOIE A TINBERG
601 N Blackhawk Ave

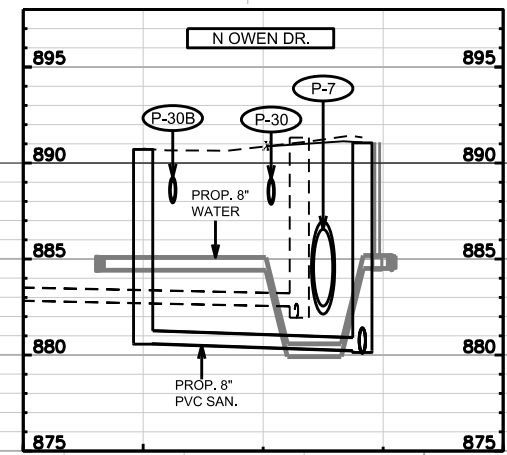
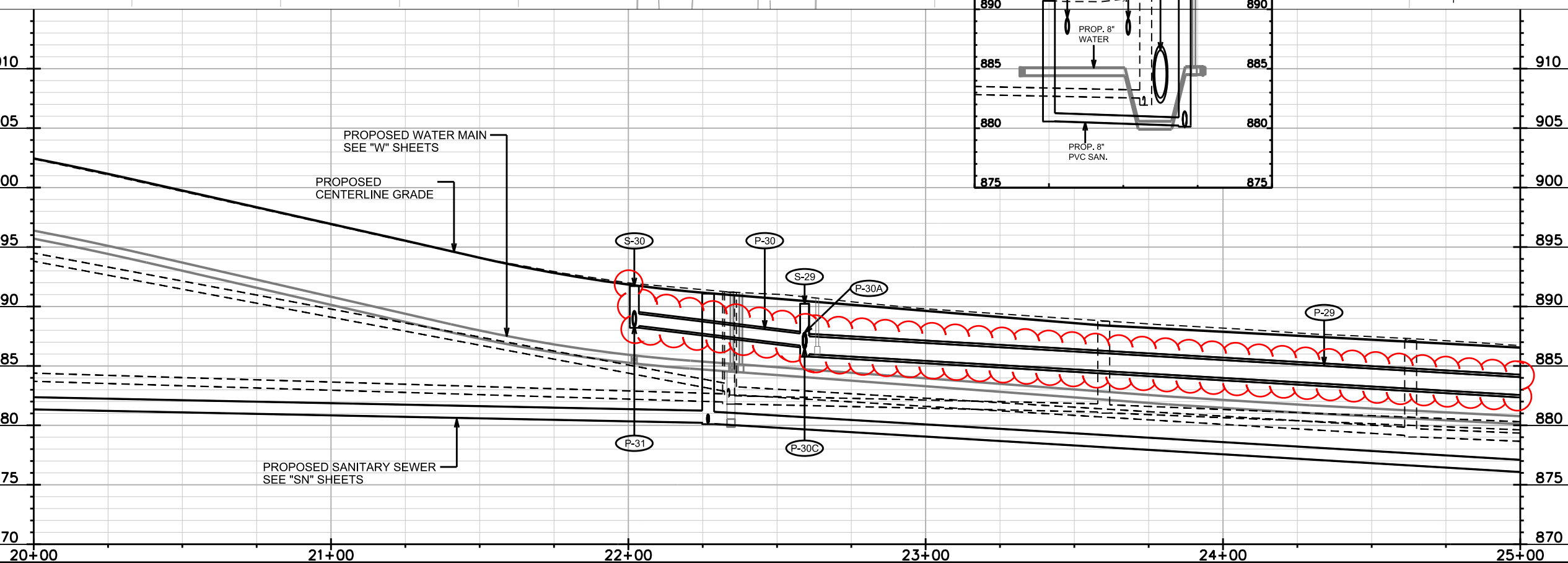
0709-201-0908-4
MERHEMIC, PHIL
605 N Blackhawk Ave

0709-201-0907-6
EVERS, STEVEN C
613 N Blackhawk Ave

0709-201-0906-8
HEFFRON, DANIEL & JILL
625 N Blackhawk Ave

MATCHLINE STA 20+00.00

MATCHLINE STA 25+00.00



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

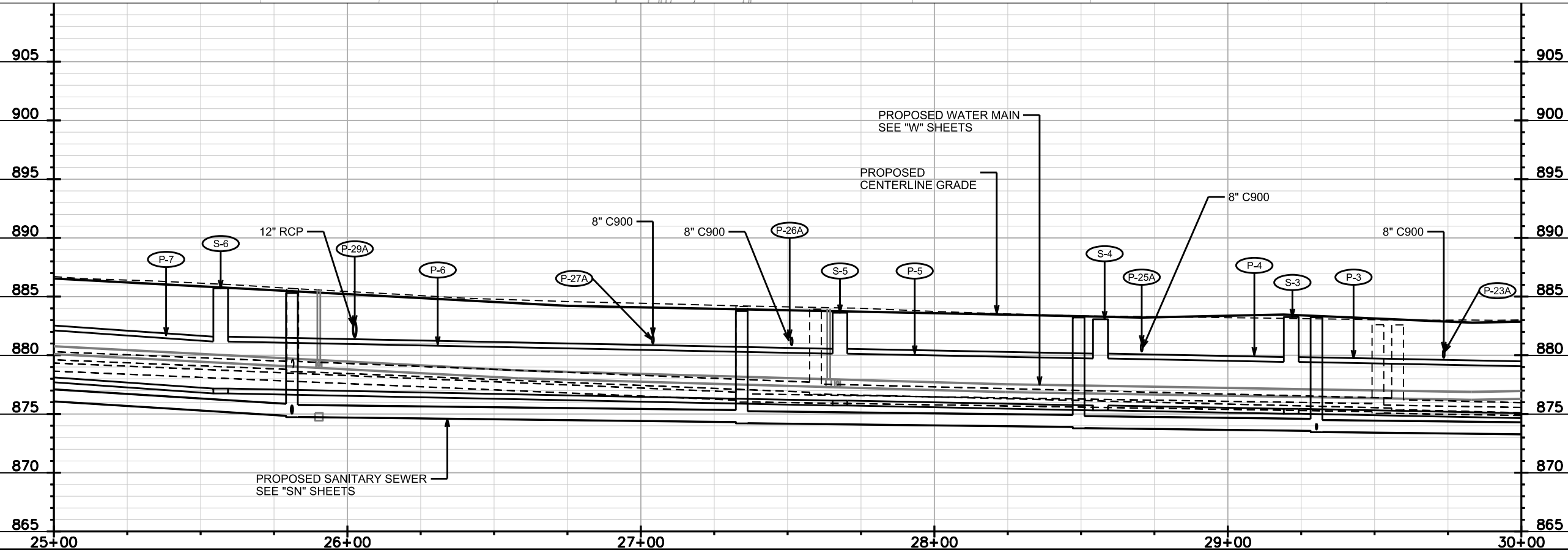
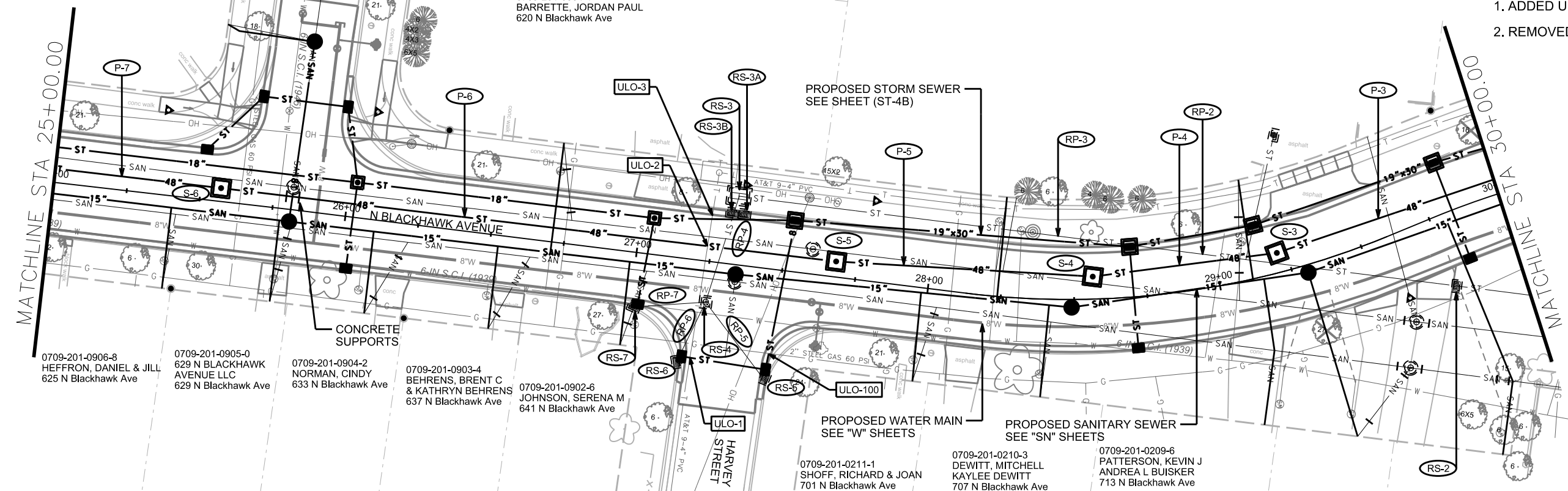
REVISED 10/ 16 /18- FBEG

- ADDED ULO-100.
- REMOVED ULO-4.

0709-201-0801-0
SEBRANEK, JOSHUA J
3501 Lucia Crest

0709-201-0334-1
BARRETTE, JORDAN PAUL
620 N Blackhawk Ave

0709-201-0337-5
WELTON FAMILY LTD PRTSHP
STE 109
3525 University Ave



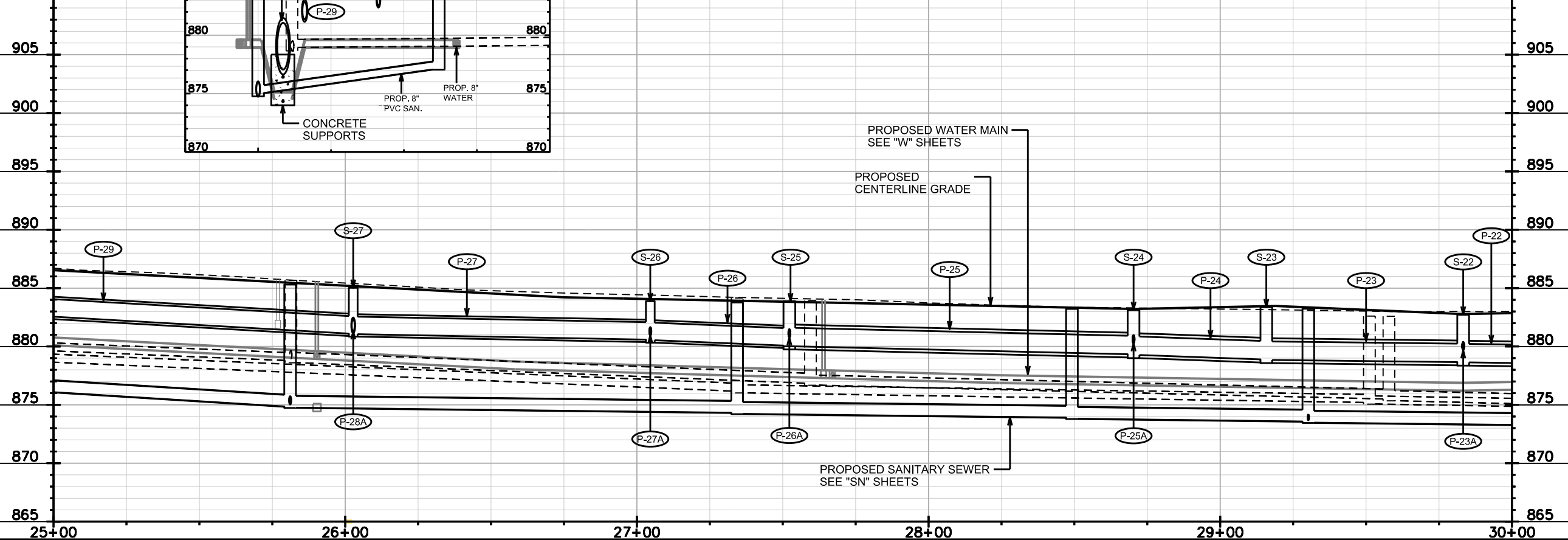
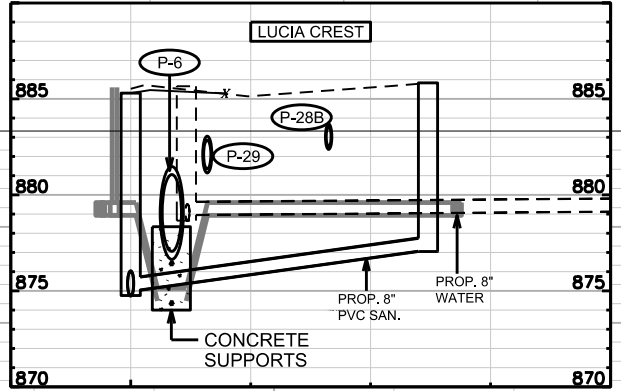
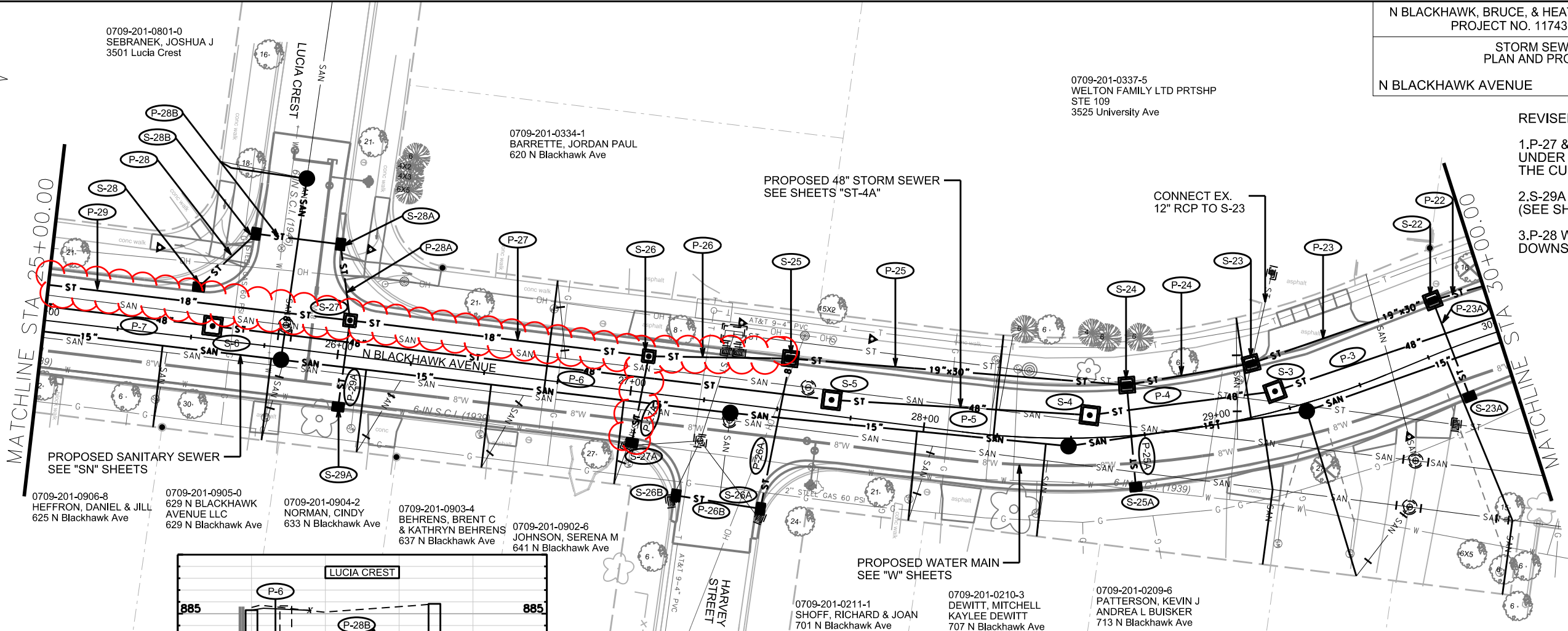
PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 10/ 16 /18- FBEG

1.P-27 & P-29 WILL NOW BE UNDER THE STREET, NOT THE CURB.

2.S-29A HAS NEW LOCATION (SEE SHEET ST-7).

3.P-28 WILL BE CONNECTED DOWNSTREAM TO S-28B

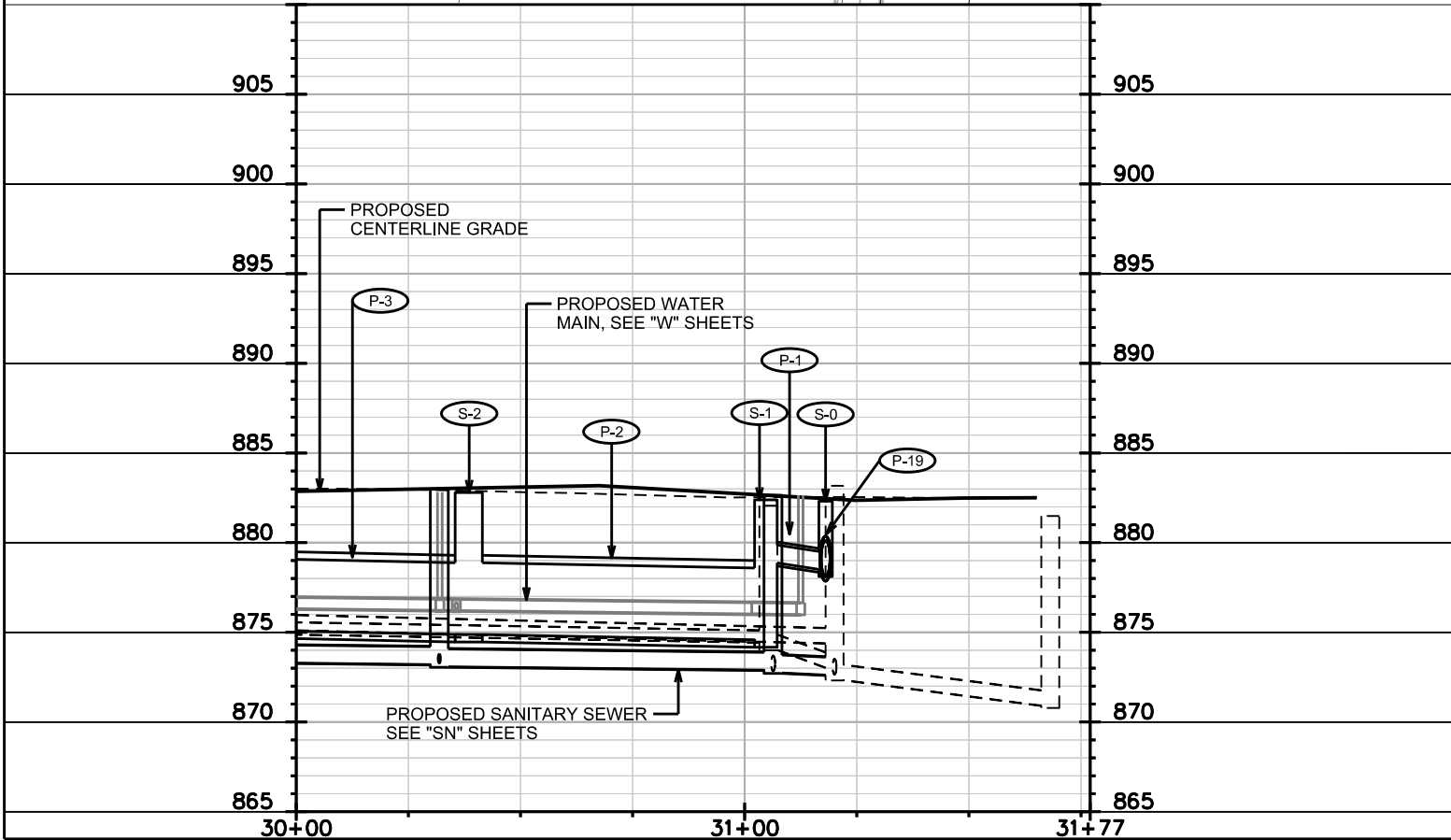
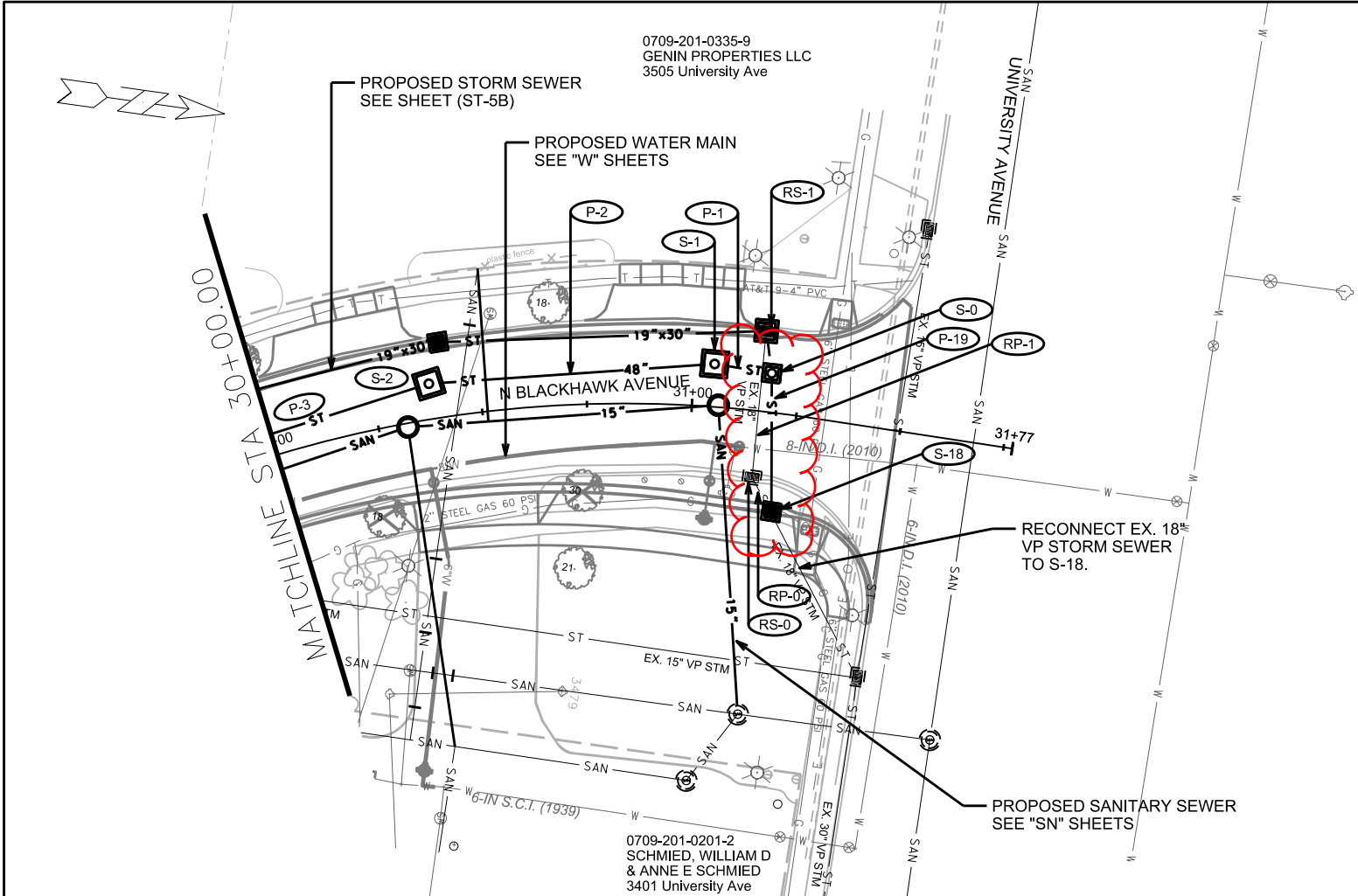


PLOT SCALE: PLOT NAME: REV. DATE: ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER
PLAN AND PROFILE

N BLACKHAWK AVENUE CITY OF MADISON

- REVISED 2/ 28 / 2019- FBEG
1. ADDED STORM STRUCTURE S-18.
 2. ADDED INLET REMOVAL RS-0.
 3. ADDED PIPE REMOVAL RP-0.
 4. ELIMINATED STORM TAP T-18.
 5. STORM SEWER P-19 WILL BE CONNECTED DOWNSTREAM TO STRUCTURE S-18.



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

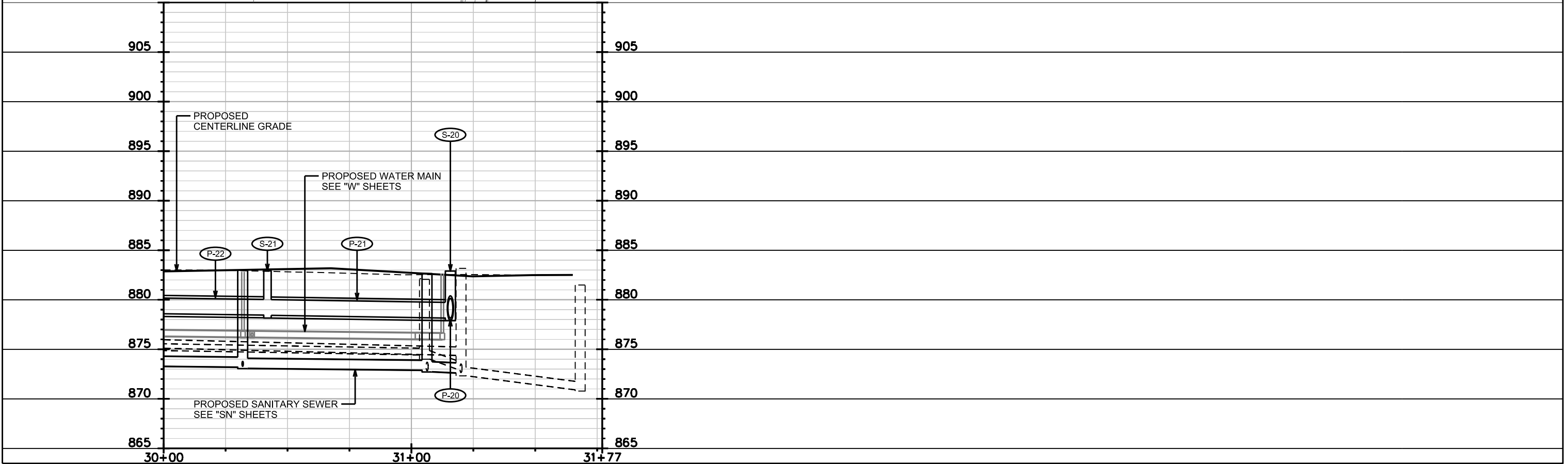
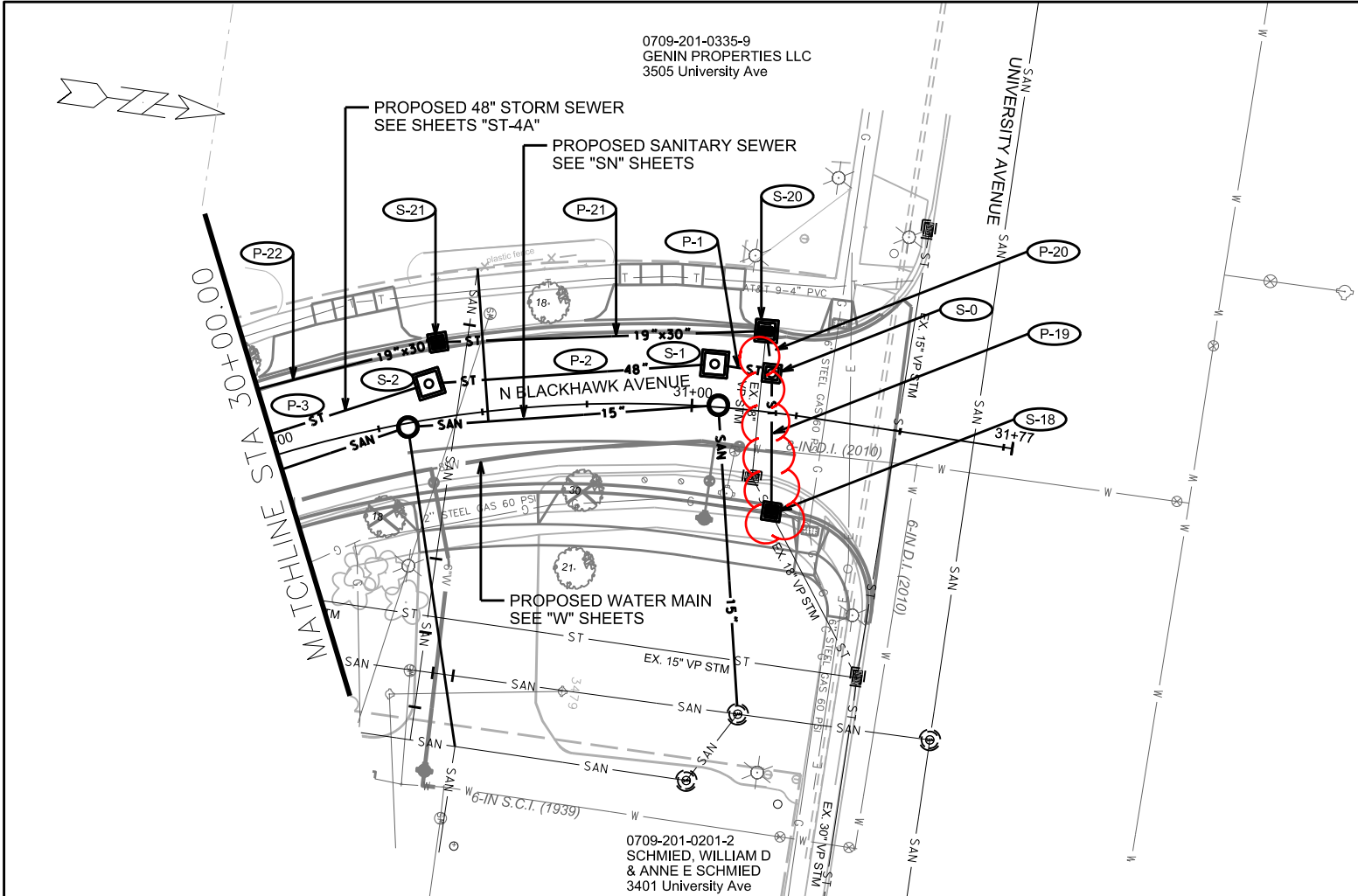
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 2/28/2019- FBEG

1. REPRINTED TO SHOW CHANGES
MADE IN SHEET ST-5A. ALL CHANGES
IN THIS SHEET ARE IDENTIFIED IN SHEET
ST-5A.

0709-201-0335-9
GENIN PROPERTIES LLC
3505 University Ave

0709-201-0201-2
SCHMIED, WILLIAM D
& ANNE E SCHMIED
3401 University Ave



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER
PLAN AND PROFILE
HEATHER CREST CITY OF MADISON

REVISED 10/16/18- FBEG
1. S-51, S-52A, S-52B, & S-52C
HAVE NEW LOCATIONS
(SEE SHEET ST-7).
2. P-51, P-52A, P-52B, P-52C &
P-53 HAVE NEW LENGTHS
(SEE SHEET ST-7).
3. P-53 SHALL BE CONNECTED
DOWNSTREAM TO S-52B.

0709-201-0820-0
EYA, APRIL S
3554 Heather Crest

0709-201-0821-8
SHANNON, WARREN A
KATARZYNA MONIKA SHANNON
3550 Heather Crest

0709-201-0822-6
BREUNIG, DANIEL V
THERESA BREUNIG
3546 Heather Crest

0709-201-0823-4
HUSET, NATHAN C
3542 Heather Crest

0709-201-0824-2
STROCK, BRADLEY R
3538 Heather Crest

0709-201-0609-8
RATHJEN, LOGAN P
KELLY N DANNER
3553 Heather Crest

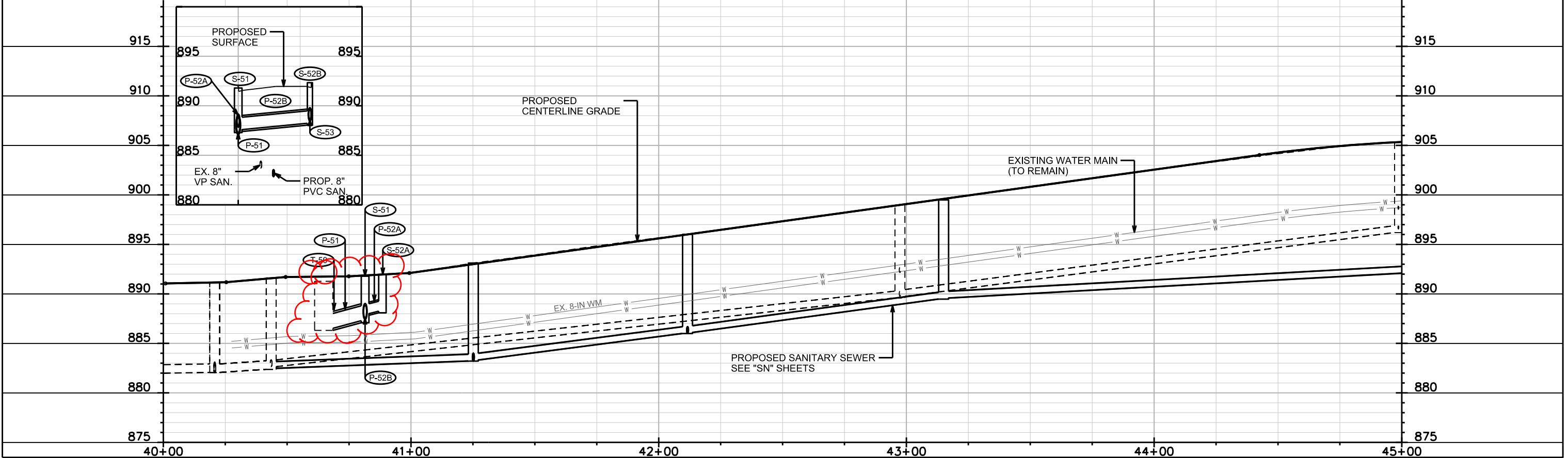
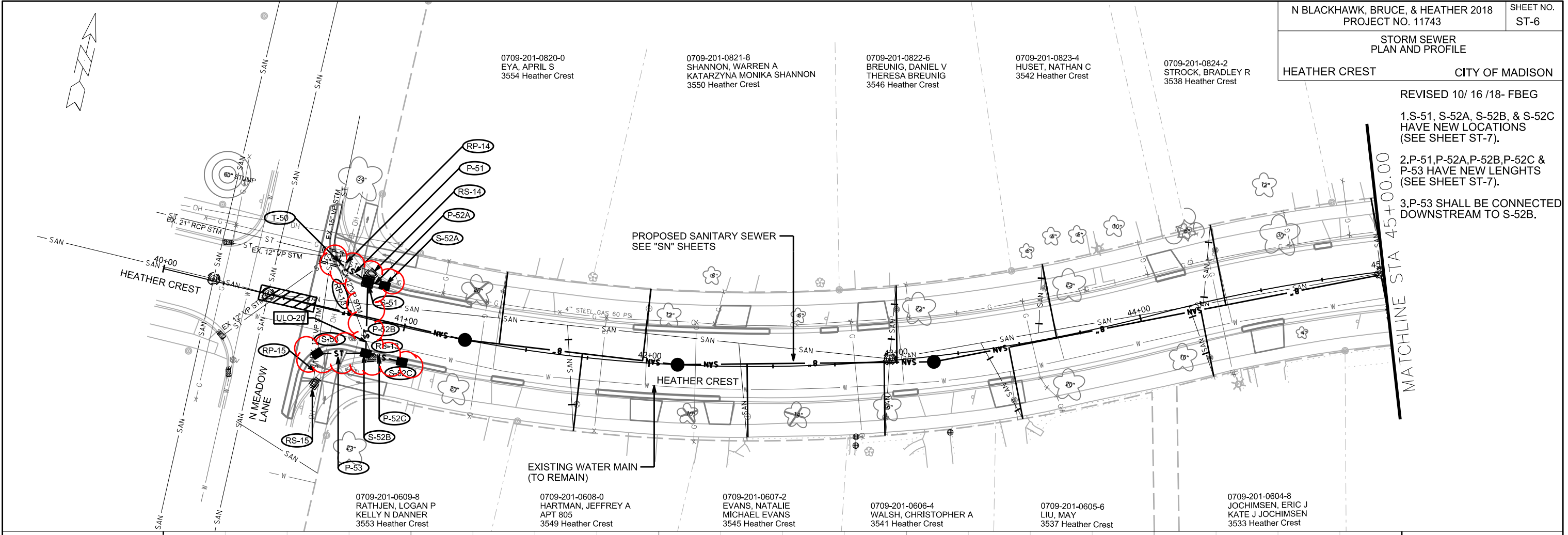
0709-201-0608-0
HARTMAN, JEFFREY A
APT 805
3549 Heather Crest

0709-201-0607-2
EVANS, NATALIE
MICHAEL EVANS
3545 Heather Crest

0709-201-0606-4
WALSH, CHRISTOPHER A
3541 Heather Crest

0709-201-0605-6
LIU, MAY
3537 Heather Crest

0709-201-0604-8
JOCHIMSEN, ERIC J
KATE J JOCHIMSEN
3533 Heather Crest



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

STORM SEWER SCHEDULE

PROPOSED STORM SEWER STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
N BLACKHAWK AVENUE							
*** T-18	31+16.14	RT-15.94	STM TAP	-	878.39	-	TAP EX. IN 3850-019
*** S-18	31+22.18	RT-23.45	3' X 3' SAS	882.10	877.93	4.17	w/ R-3067-7004-V
*** S-0	31+18.03	LT-9.28	3' X 3' SAS	882.27	878.10	4.17	w/ R-1550 HYDRO VENT
*** S-1	31+04.72	LT-10.20	5' X 5' SAS	882.59	874.57	8.02	w/ R-1550 HYDRO VENT
S-2	30+38.47	LT-8.43	5' X 5' SAS	882.80	874.88	7.92	w/ R-1550 HYDRO VENT
S-3	29+21.60	LT-6.69	5' X 5' SAS	883.25	875.44	7.81	w/ R-1550-0054
S-4	28+56.60	LT-7.68	5' X 5' SAS	883.07	875.73	7.34	w/ R-1550-0054
S-5	27+67.85	LT-5.30	5' X 5' SAS	883.64	876.14	7.50	w/ R-1550-0054
S-6	25+56.84	LT-4.55	5' X 5' SAS	885.74	877.17	8.57	w/ R-1550-0054
S-7	21+71.06	LT-3.86	5' X 5' SAS	892.91	883.42	9.49	w/ R-1550-0054
^ S-8	17+73.78	LT-3.86	5' X 5' SAS	907.08	885.56	21.52	w/ R-1550-0054
S-9	17+33.67	RT-0.57	5' X 5' SAS	906.70	885.75	20.95	w/ R-1550-0054
S-10	14+97.62	RT-0.59	5' X 5' SAS	901.93	886.94	14.99	w/ R-1550-0054
** S-10A	17+29.83	RT-46.10	3' X 3' SAS w/ H	906.71	901.69	5.02	w/ R-3067-7004-V
** S-10B	17+60.32	RT-46.16	H INLET	907.67	904.47	3.20	w/ R-3067-7004-V
** S-10C	17+28.70	LT-17.08	H INLET	906.68	903.55	3.13	w/ R-3067-7004-V
S-11	11+20.48	RT-0.13	5' X 5' SAS	898.63	888.86	9.77	w/ R-1550-0054
S-12A	11+19.69	RT-21.88	TERRACE INLET TYPE 1	898.69	892.96	5.73	FP; [1]; [3]
^ S-12B	11+20.54	LT-21.36	TERRACE INLET TYPE 1	898.38	893.47	4.91	LP; FP; [1]
S-12	10+52.58	CL	5' X 5' SAS	898.74	889.22	9.52	w/ R-1550-0054; [2]
S-13	10+47.26	LT-20.55	TERRACE INLET TYPE 3	898.02	893.29	4.73	LP; FP; [4]
S-13A	10+29.85	RT-21.52	TERRACE INLET TYPE 1	898.45	892.64	5.81	FP; [1]
*** S-20	31+15.75	LT-19.15	4' X 4' SAS w/H	882.86	878.14	4.72	w/ R-3067-7004-V
*** S-21	30+41.90	LT-17.88	4' X 4' SAS w/H	883.02	878.44	4.58	w/ R-3067-7004-V
*** S-22	29+83.29	LT-17.50	4' X 4' SAS w/H	882.72	878.65	4.07	LP; w/ R-3067-7004-VB
S-23A	29+83.29	RT-17.56	H INLET	882.52	880.02	2.50	LP; w/ R-3067-7004-VB
** S-23	29+15.80	LT-17.78	4' X 4' SAS w/H	883.37	878.86	4.51	w/ R-3067-7004-V
** S-24	28+70.28	LT-17.17	4' X 4' SAS w/H	883.13	879.31	3.82	LP; w/ R-3067-7004-VB
S-25A	28+70.61	RT-17.48	H INLET	882.95	880.45	2.50	LP; w/ R-3067-7004-VB
** S-25	27+52.29	LT-17.46	4' X 4' SAS w/H	883.88	880.04	3.84	w/ R-3067-7004-V
** S-26A	27+48.48	RT-34.22	H INLET	883.48	881.04	2.44	w/ R-3067-7004-V
** S-26B	27+19.49	RT-33.27	H INLET	883.57	881.18	2.39	LP; w/ R-3067-7004-VB
** S-26	27+04.61	LT-12.35	3' X 3' SAS	883.88	880.57	3.31	w/ R-1550-0054
** S-27A	27+02.52	RT-17.45	H INLET	883.72	881.11	2.61	w/ R-3067-7004-V
** S-27	26+02.74	LT-11.96	3' X 3' SAS	885.03	881.06	3.97	w/ R-1550-0054
** S-28A	25+96.40	LT-37.12	H INLET	885.29	882.21	3.08	LP; w/ R-3067-7004-VB
** S-28B	25+67.83	LT-37.26	H INLET	885.93	882.85	3.08	LP; w/ R-3067-7004-VB
** S-28	25+50.67	LT-17.14	H INLET	886.09	883.01	3.08	w/ R-3067-7004-V
** S-29A	26+02.33	RT-17.60	H INLET	884.91	881.81	3.10	w/ R-3067-7004-V
* S-29	22+59.13	LT-11.84	3' X 3' SAS	890.23	886.03	4.20	w/ R-1550-0054
** S-30A	22+53.09	LT-34.93	H INLET	890.52	887.52	3.00	w/ R-3067-7004-V
** S-30B	22+18.65	LT-35.72	H INLET	891.24	888.24	3.00	LP; w/ R-3067-7004-VB
** S-30C	22+49.53	RT-33.75	H INLET	890.66	887.66	3.00	w/ R-3067-7004-V
** S-30D	22+18.23	RT-33.22	H INLET	891.69	888.69	3.00	LP; w/ R-3067-7004-VB
** S-30	22+01.87	LT-17.46	H INLET	891.71	888.46	3.25	w/ R-3067-7004-V
** S-31A	22+01.87	LT-17.50	H INLET	891.74	888.96	2.75	w/ R-3067-7004-V
** S-31	21+95.88	RT-17.60	H INLET	892.06	888.96	3.10	w/ R-3067-7004-V
T-40	14+81.52	RT-22.57	STM TAP	-	895.00	-	TAP EX. AS 3851-001
** S-41	15+13.06	LT-20.08	3' X 3' SAS	902.26	897.90	4.36	w/ R-1550-0054; (5)
** S-42	15+15.67	LT-34.73	3' X 3' SAS w/ H	902.46	898.06	4.40	w/ R-3067-7004-V
** S-43	15+43.91	LT-34.77	H INLET	903.21	899.25	3.96	w/ R-3067-7004-VB
** S-44	15+60.13	LT-17.50	H INLET	903.06	899.70	3.36	LP; w/ R-3067-7004-VB
** S-45	15+78.17	RT-17.31	H INLET	903.22	900.00	3.22	w/ R-3067-7004-V
^ S-46	15+78.17	RT-35.00	8" PVC PLUG	-	900.13	-	-
HEATHER CREST							
* T-50	40+64.60	LT-20.58	REBUILD TOP	-	886.52	-	TAP EX. AS 3751-017
** S-51	40+81.30	LT-14.50	3' X 3' SAS w/H	891.79	887.29	4.50	w/ R-3067-7004-V
** S-52A	40+88.29	LT-14.50	H INLET	891.96	888.25	3.71	w/ R-3067-7004-V
** S-52B	40+87.38	RT-13.78	H INLET	892.33	888.23	4.10	w/ R-3067-7004-V
** S-52C	41+02.09	RT-13.82	H INLET	892.66	889.46	3.20	w/ R-3067-7004-V
** S-53	40+68.35	RT-18.53	H INLET	892.10	888.90	3.20	LP; w/ R-3067-7004-VB

* REV 8 / 24 / 2018

** REVISED 10/ 16 / 2018- FBEG

*** REVISED 2 / 28 / 2109- FBEG

^ REVISED 4 / 4 / 2109- FBEG

STORM SEWER SCHEDULE

CITY OF MADISON

PROPOSED STORM SEWER PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
N BLACKHAWK AVENUE										
*** P-19	S-18	S-0	877.93	878.10	33.0	30.0	0.57%	24"	RCP	-
*** P-20	S-0	S-20	878.10	878.14	10.0	6.5	0.62%	24"	RCP	-
** P-1	S-0	S-1	878.51	878.89	14.0	10.0	3.80%	12"	RCP	-
** P-2	S-1	S-2	874.57	874.88	68.5	62.5	0.50%	48"	RCP	-
P-3	S-2	S-3	874.88	875.44	117.5	112.0	0.50%	48"	RCP	-
P-4	S-3	S-4	875.44	875.73	63.0	58.0	0.50%	48"	RCP	-
P-5	S-4	S-5	875.73	876.14	87.5	82.5	0.50%	48"	RCP	-
P-6	S-5	S-6	876.14	877.17	211.0	206.0	0.50%	48"	RCP	-
P-7	S-6	S-7	877.17	883.42	385.5	380.5	1.64%	48"	RCP	-
P-8	S-7	S-8	883.42	885.56	397.5	392.5	0.55%	48"	RCP	-
P-9	S-8	S-9	885.56	885.75	40.5	35.5	0.54%	48"	RCP	-
P-10	S-9	S-10	885.75	886.94	236.0	231.0	0.52%	48"	RCP	-
** P-10A	S-9	S-10A	901.29	901.69	45.5	41.5	0.96%	24"	RCP	-
** P-10B	S-10A	S-10B	902.91	904.47	30.5	28.0	5.57%	12"	RCP	-
** P-10C	S-9	S-10C	903.20	903.55	18.5	14.5	2.41%	12"	RCP	-
P-11	S-10	S-11	886.94	888.86	377.0	372.0	0.52%	48"	RCP	-
P-12A	S-11	S-12A	892.50	892.96	22.0	17.0	2.71%	21"	RCP	-
^ P-12B	S-11	S-12B	892.75	893.47	21.5	17.0	4.24%	18"	RCP	-
P-12	S-11	S-12	888.86	889.22	68.0	63.0	0.57%	48"	RCP	-
P-13	S-12	S-13	892.64	893.29	21.0	17.7	3.67%	21"	RCP	-
P-13A	S-12	S-13A	892.64	892.64	31.5	25.5	0.00%	21"	RCP	-
** P-21	S-20	S-21	878.14	878.44	78.5	75.0	0.40%	19" X 30"	HERCP	-
** P-22	S-21	S-22	878.44	878.65	62.0	58.5	0.36%	19" X 30"	HERCP	-
** P-23A	S-22	S-23A	879.71	880.02	35.0	32.0	0.97%	8"	C900	-
** P-23	S-22	S-23	878.65	878.86	65.0	61.0	0.34%	19" X 30"	HERCP	-
** P-24	S-23	S-24	878.86	879.31	42.5	38.5	1.17%	19" X 30"	HERCP	-
** P-25A	S-24	S-25A	880.29	880.45	34.5	31.5	0.51%	8"	C900	-
** P-25	S-24	S-25	879.31	880.04	114.5	110.5	0.66%	19" X 30"	HERCP	-
** P-26A	S-25	S-26A	880.80	881.04	52.0	48.0	0.50%	8"	C900	-
* P-26B	S-26A	S-26B	881.04	881.18	29.0	27.0	0.52%	8"	C900	-
** P-26	S-25	S-26	880.04	880.57	48.0	44.5	1.19%	18"	RCP	-
** P-27A	S-26	S-27A	880.97	881.11	30.0	27.5	0.51%	8"	C900	-
** P-27	S-26	S-27	880.57	881.06	102.0	99.0	0.49%	18"	RCP	-
** P-28A	S-27	S-28A	881.31	882.21	26.0	23.0	3.91%	12"	RCP	-
** P-28B	S-28A	S-28B	882.21	882.85	29.0	27.0	2.37%	15"	RCP	-
** P-28	S-28B	S-28	882.85	883.01	26.5	23.5	0.68%	12"	RCP	-
** P-29A	S-27	S-29A	881.67	881.81	29.5	27.0	0.52%	12"	RCP	-
** P-29	S-27	S-29	881.06	886.03	343.5	340.6	1.46%	18"	RCP	-
** P-30A	S-29	S-30A	886.63	887.52	24.0	21.0	4.24%	12"	RCP	-
* P-30B	S-30A	S-30B	887.52	888.24	34.0	32.0	2.25%	12"	RCP	-
** P-30C	S-29	S-30C	886.63	887.66	46.5	43.5	2.37%	12"	RCP	-
* P-30D	S-30C	S-30D	887.66	888.69	31.0	29.0	3.55%	12"	RCP	-
** P-30	S-29	S-30	886.63	888.46	57.5	54.5	3.36%	12"	RCP	-
** P-31	S-30	S-31	888.46	888.96	35.5	33.5	1.49%	12"	RCP	-
** P-31A	S-30	S-31A	888.79	888.96	6.5	3.5	4.86%	12"	RCP	-
** P-41	T-40	S-41	895.00	897.90	53.0	48.0	6.04%			

STORM SEWER SCHEDULE

* REV 8/ 24 /18

** REVISED 10/ 16 /2018- FBEG

*** REVISED 2/ 28 /2019- FBEG

N BLACKHAWK, BRUCE, & HEATHER 2018	SHEET NO.
PROJECT NO. 11743	ST-8
STORM SEWER SCHEDULE	
CITY OF MADISON	

REMOVE STORM SEWER STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET) FT	TYPE	NOTES
N BLACKHAWK AVENUE					
*** RS-0	IN 3850-019	31+16.14	RT-15.91	H INLET	-
RS-1	IN 3850-018	31+15.75	LT-19.00	H INLET	-
RS-2	IN 3850-020	29+74.95	RT-24.67	H INLET	-
RS-3	AS 3850-022	27+32.27	LT-23.29	CATCHBASIN	-
RS-3A	IN 3850-026	27+34.84	LT-17.50	H INLET	-
RS-3B	IN 3850-027	27+30.70	LT-17.42	H INLET	-
RS-4	AS 3850-023	27+25.41	RT-13.93	SAS	-
RS-5	IN 3850-025	27+48.66	RT-37.17	H INLET	-
RS-6	IN 3850-024	27+18.07	RT-35.37	H INLET	-
RS-7	IN 3850-028	27+01.33	RT-18.58	H INLET	-
RS-8	IN 3851-005	15+63.72	LT-19.00	H INLET	-
RS-9	IN 3851-004	15+49.39	LT-32.94	H INLET	-
RS-10	IN 3851-003	14+78.57	LT-17.23	H INLET	-
RS-11	IN 3852-013	10+75.84	LT-17.09	H INLET	-
RS-12	IN 3852-014	10+32.51	LT-17.49	H INLET	-
HEATHER CREST					
RS-13	IN 3751-025	40+90.31	RT-14.72	H INLET	-
RS-14	IN 3751-026	40+82.12	LT-17.99	H INLET	-
* RS-15	IN 3751-024	40+70.19	RT-30.34	H INLET	-

ULOs

NO.	STATION	LOCATION	TYPE	NOTES
N BLACKHAWK AVENUE				
* ULO-1	27+22.44	RT-33.37	TEL.	-
ULO-2	27+23.74	LT-5.10	TEL.	-
ULO-3	27+24.11	LT-15.77	TEL.	-
** ULO-4	25+63.82	LT-15.54	GAS	GAS TO BE ABAN.
** ULO-5	22+52.80	RT-19.50	GAS	GAS TO BE ABAN.
** ULO-6	22+10.73	RT-13.47	GAS	GAS TO BE ABAN.
ULO-7	17+52.16	RT-44.91	WATER	-
** ULO-8	15+54.77	LT-27.45	GAS	GAS TO BE ABAN.
* ULO-9	15+53.93	LT-42.79	GAS	-
** ULO-10	15+13.39	LT-26.75	GAS	GAS TO BE ABAN.
** ULO-11	10+39.84	RT-13.69	GAS	GAS TO BE ABAN.
** ULO-100	27+48.89	RT-28.64	GAS	-
HEATHER CREST				
** ULO-20	40+86.34	RT-8.95	WATER	-

10 UNDISTRIBUTED

ADJUST STORM SEWER STRUCTURES/ INLETS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	EX. RIM	ADJUST RIM	DIFF. (FT)	NOTES
* ADJ-1	IN 3751-024	40+70.19	RT-30.34	892.17	892.17	0.00	-

REMOVE STORM SEWER PIPE

REMOVE NO.	REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	PAID LENGTH (FT)	PIPE SIZE (IN)	TYPE	NOTES
N BLACKHAWK AVENUE								
*** RP-0	S-18	RS-0	9	Y	10	18	VP	-
*** RP-1	RS-0	RS-1	34	N	0	18	VP	-
RP-2	RS-2	S-24	109	Y	74	15	VP	-
RP-3	S-24	RS-3	130	Y	130	15	VP	-
RP-4	RS-3	RS-4	34	Y	26	12	RCP	-
RP-5	RS-4	RS-5	30	Y	30	12	RCP	-
RP-6	RS-4	RS-6	20	Y	20	12	RCP	-
RP-7	RS-4	RS-7	22	Y	22	12	RCP	-
RP-8	AS 3851-001	RS-8	90	Y	90	12	VP	-
RP-9	AS 3851-001	RS-9	85	Y	85	12	VP	-
RP-10	AS 3851-001	RS-10	35	Y	35	12	VP	-
RP-11	AS 3852-018	RS-11	35	Y	35	12	RCP	-
RP-12	AS 3852-018	RS-12	50	Y	25	12	RCP	-
HEATHER CREST								
RP-13	T-50	RS-13	39	Y	39	12	VP	-
RP-14	T-50	RS-14	13	N	0	12	VP	-
* RP-15	T-50	RS-15	50	N	0	12	VP	-

SPECIFIC NOTES:

- [1] STATIONED TO CENTER OF GRATE; SEE SDD 5.7.12; TOP OF CURB PROVIDED IS TOP OF GRATE, CONTRACTOR IS REMINDED THE CURB FLOWLINE IS TO BE HAND POURED TO CREATE A DEPRESSION IN THE FLOWLINE AND FLUME INTO THE STRUCTURE. THE FLOWLINE IS NOT TO BE POURED STRAIGHT THROUGH AND THE DIFFERENCE BETWEEN THE FLOWLINE ELEVATION AND ENTRANCE LIP ELEVATION TAKEN UP IN THE 1-2 FT TRANSITION.
- [2] TEMPORARY STEEL PIPE PLUG @ S-12 AND P-12 CONNECTION. PAID PER SPECIAL BID ITEM 90031
- [3] TEMPORARY CONCRETE PLUG @ S-12A AND P-12A CONNECTION.
- [4] STATIONED TO CENTER OF GRATE; SEE SDD 5.7.12B; TOP OF CURB PROVIDED IS TOP OF GRATE, CONTRACTOR IS REMINDED THE CURB FLOWLINE IS TO BE HAND POURED TO CREATE A DEPRESSION IN THE FLOWLINE AND FLUME INTO THE STRUCTURE. THE FLOWLINE IS NOT TO BE POURED STRAIGHT THROUGH AND THE DIFFERENCE BETWEEN THE FLOWLINE ELEVATION AND ENTRANCE LIP ELEVATION TAKEN UP IN THE 1-2 FT TRANSITION.
- * [5] OFFSET CASTING AT NORTH EAST CORNER OF STRUCTURE

STANDARD NOTES:

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT FADI EL MUSA OF CITY ENGINEERING AT (608) 243-5214 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608) 264-9275, OR EMAIL SHOP DRAWINGS TO FELMUSAGONZALEZ@CITYOFMADISON.COM

REVISED 4/1/2019- FBEG

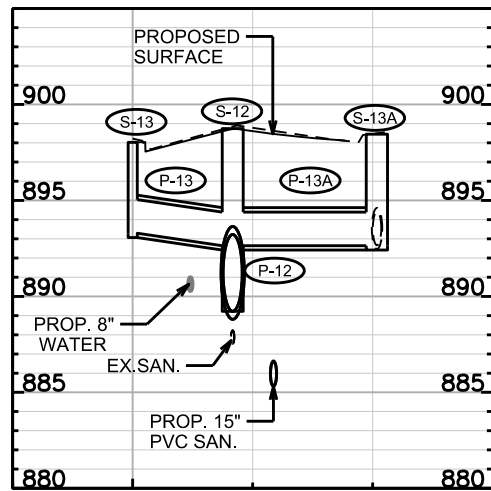
1. REPRINTED TO SHOW NEW PROFILE ELEVATIONS OF P-12B. SEE STORM SEWER SCHEDULE FOR INVERT ELEVATIONS.

N BLACKHAWK, BRUCE, & HEATHER 2018 PROJECT NO. 11743 SHEET NO. ST-9

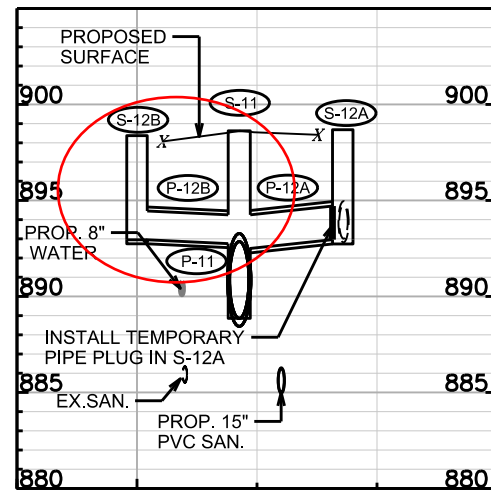
STORM SEWER PROFILES

N BLACKHAWK AVE. CITY OF MADISON

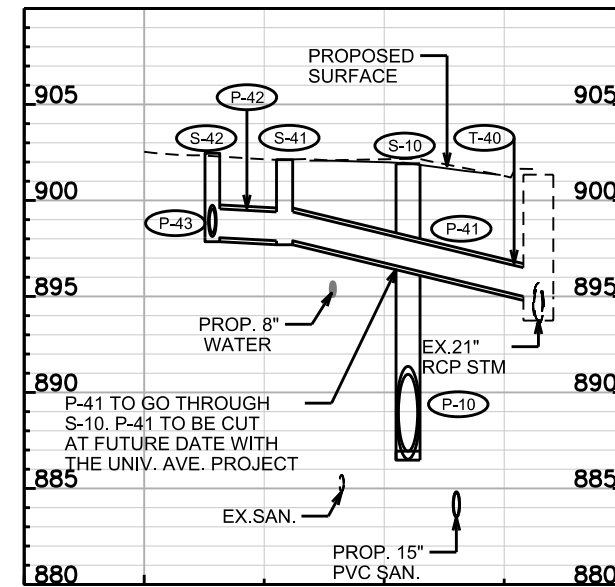
SEE SHEET ST-1



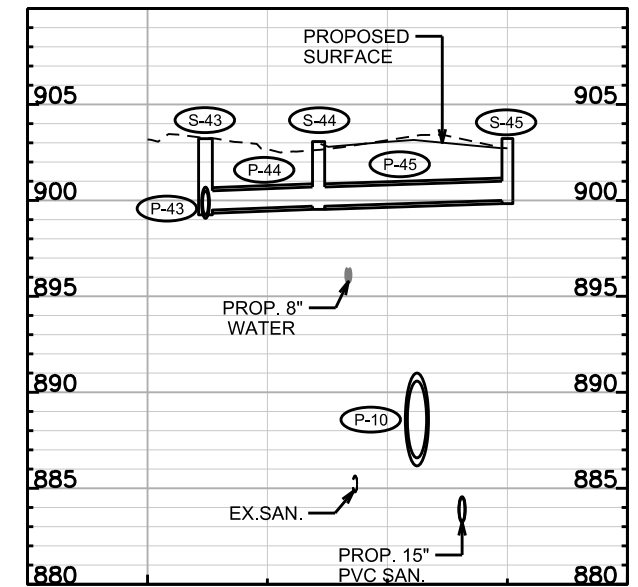
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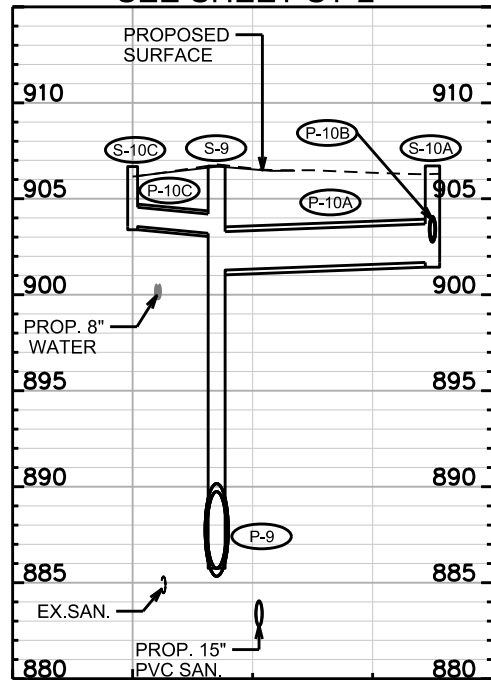
SEE SHEET ST-1



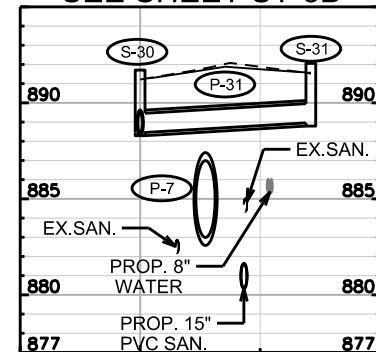
SEE SHEET ST-2



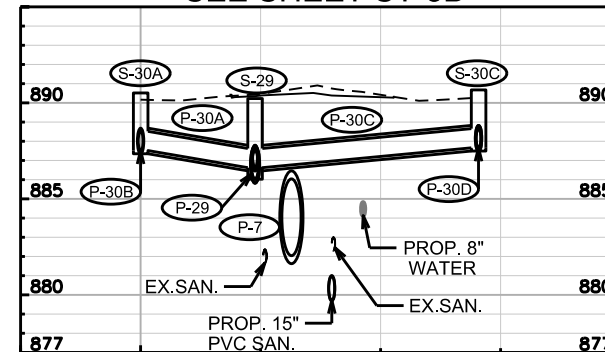
SEE SHEET ST-2



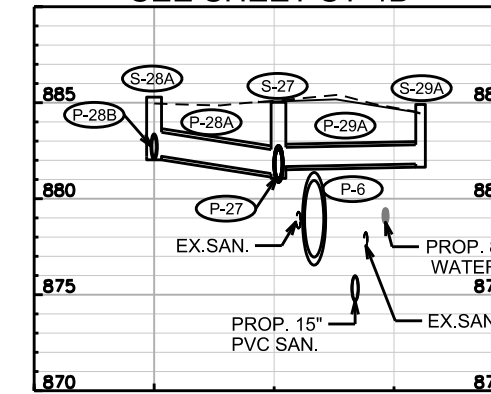
SEE SHEET ST-3B



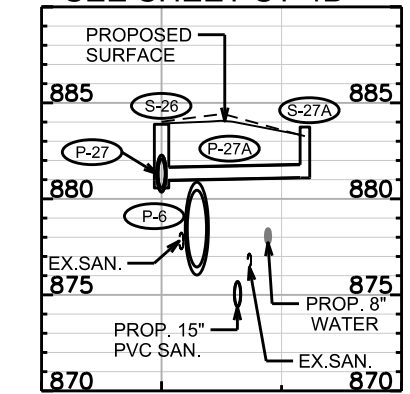
SEE SHEET ST-3B



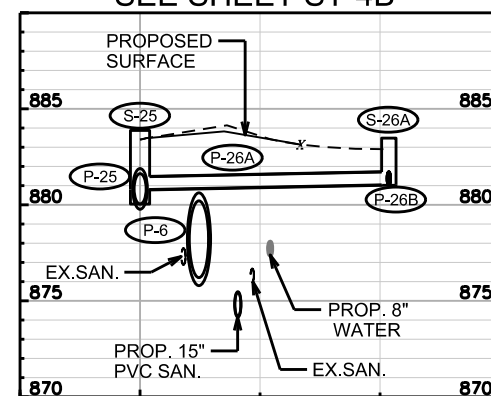
SEE SHEET ST-4B



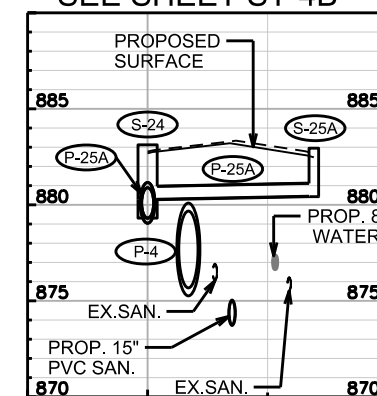
SEE SHEET ST-4B



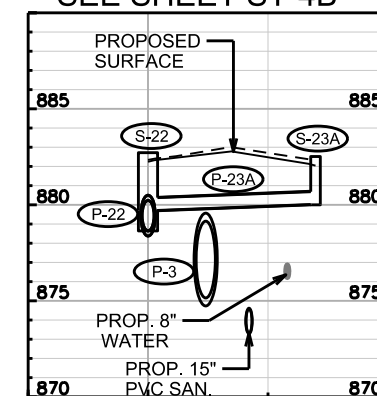
SEE SHEET ST-4B



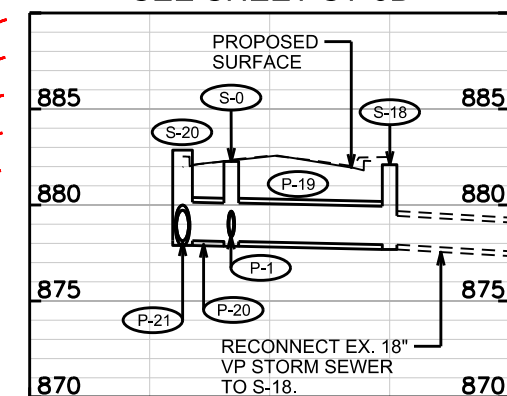
SEE SHEET ST-4B



SEE SHEET ST-4B



SEE SHEET ST-5B



PLOT SCALE: _____

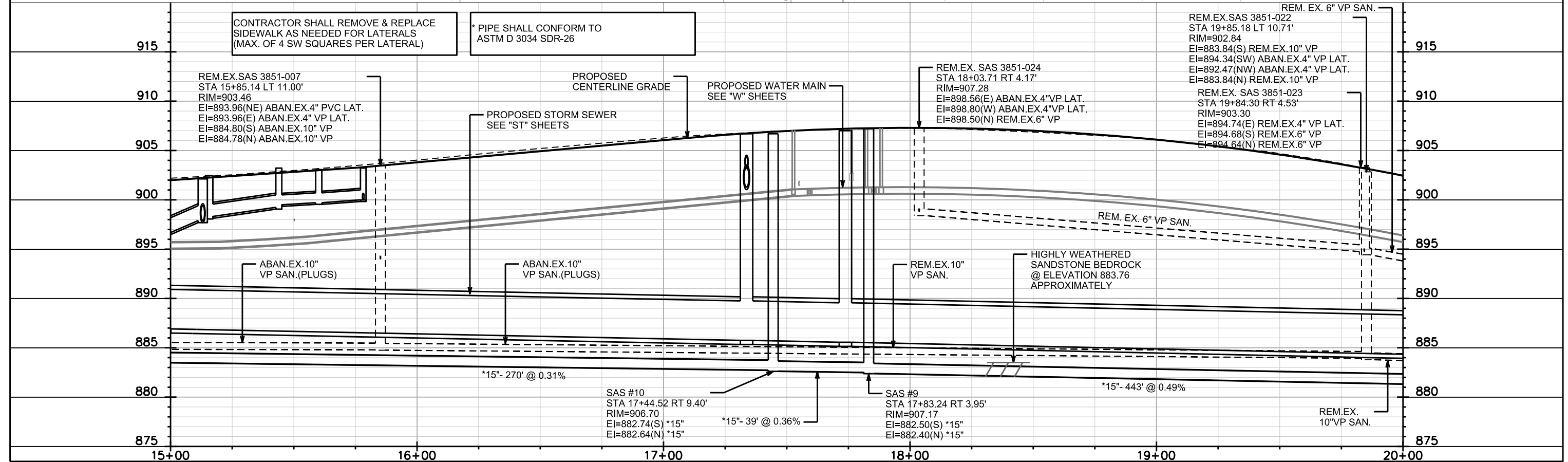
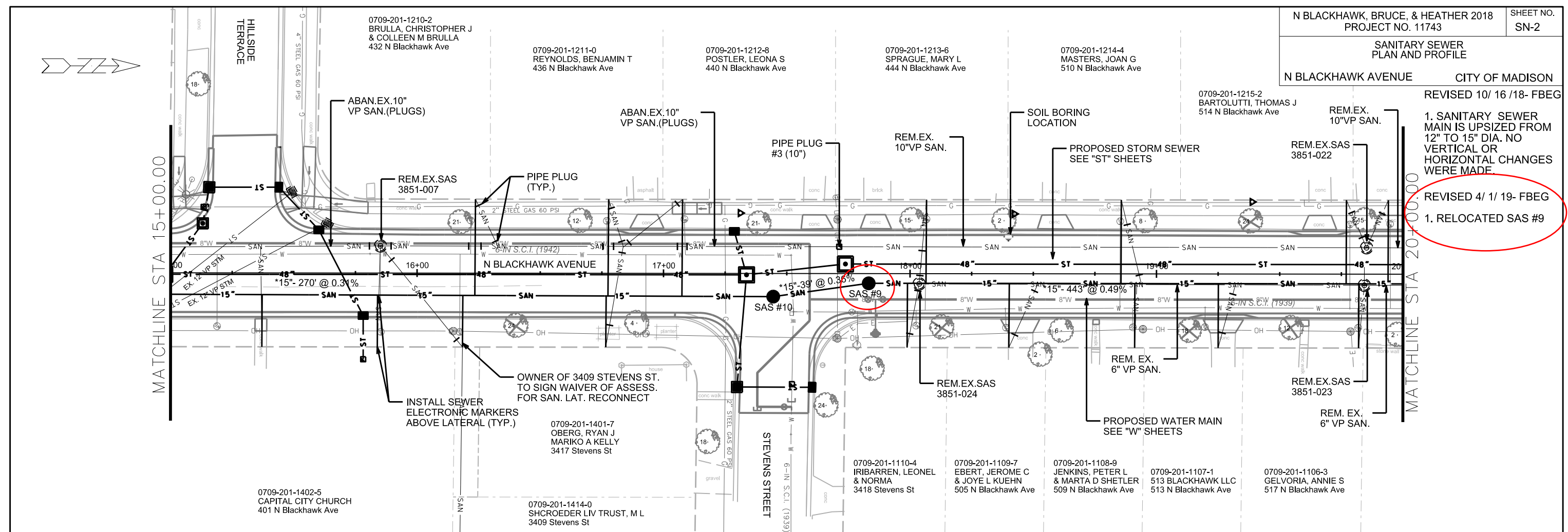
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 10/ 16 /18- FBEG

1. SANITARY SEWER
MAIN IS UPSIZED FROM
12" TO 15" DIA. NO
VERTICAL OR
HORIZONTAL CHANGES
WERE MADE.

REVISED 4/ 1/ 19- FBEG
1. RELOCATED SAS #9

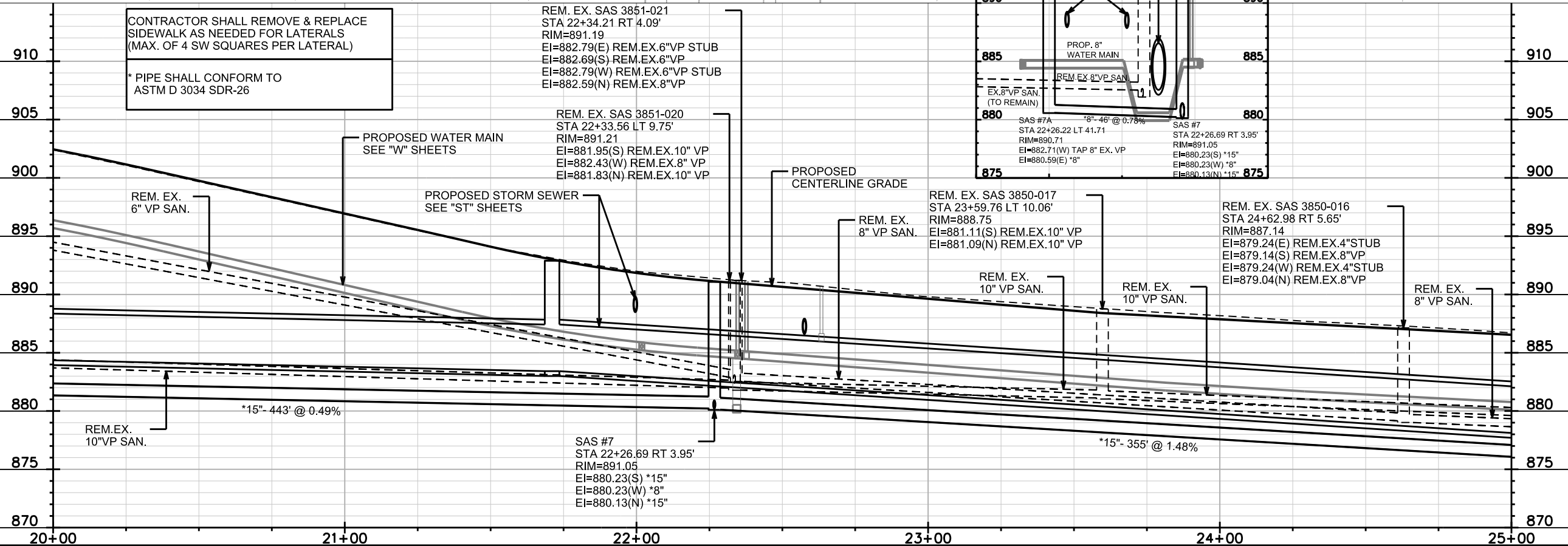
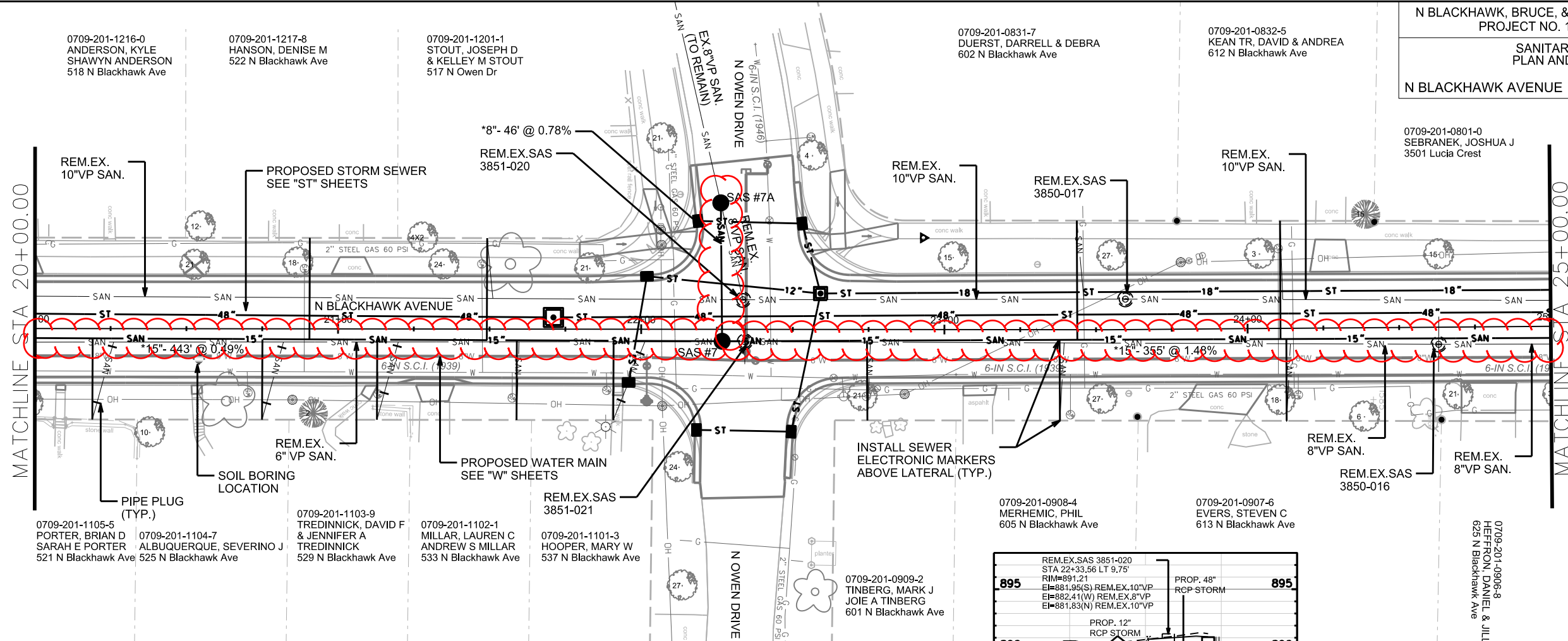


0709-201-0801-0
SEBRANEK, JOSHUA J
3501 Lucia Crest

REVISED 10/ 16/ 18- FBEG

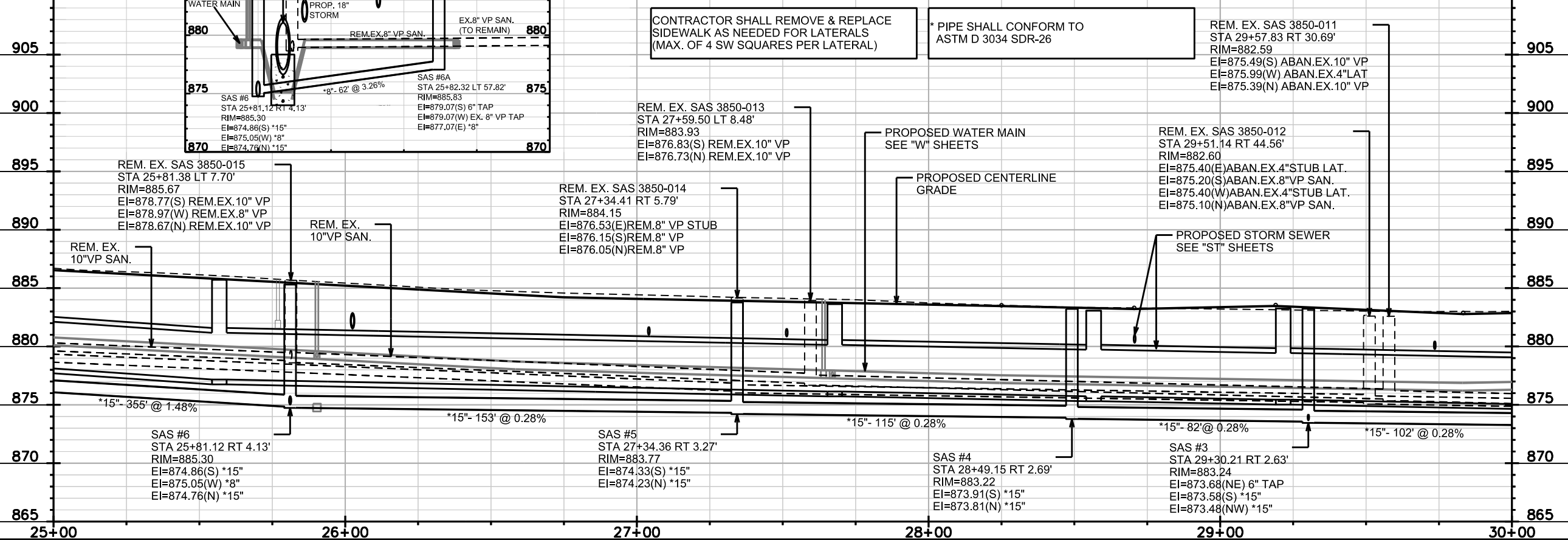
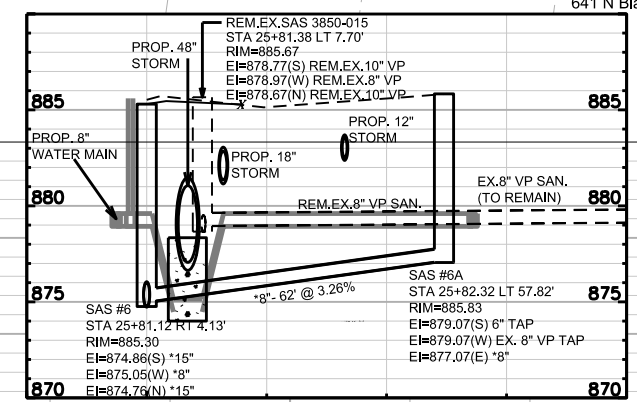
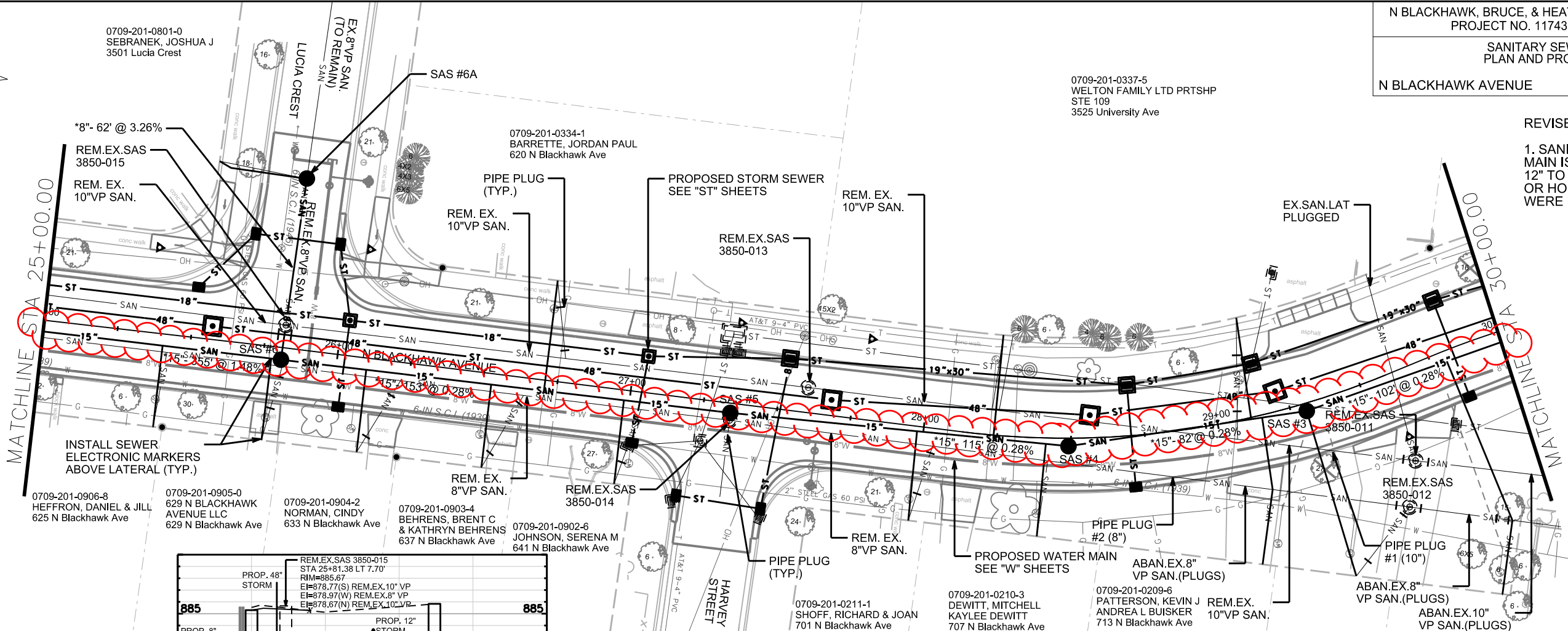
1. SANITARY SEWER
MAIN IS UPSIZED FROM
12" TO 15" DIA.

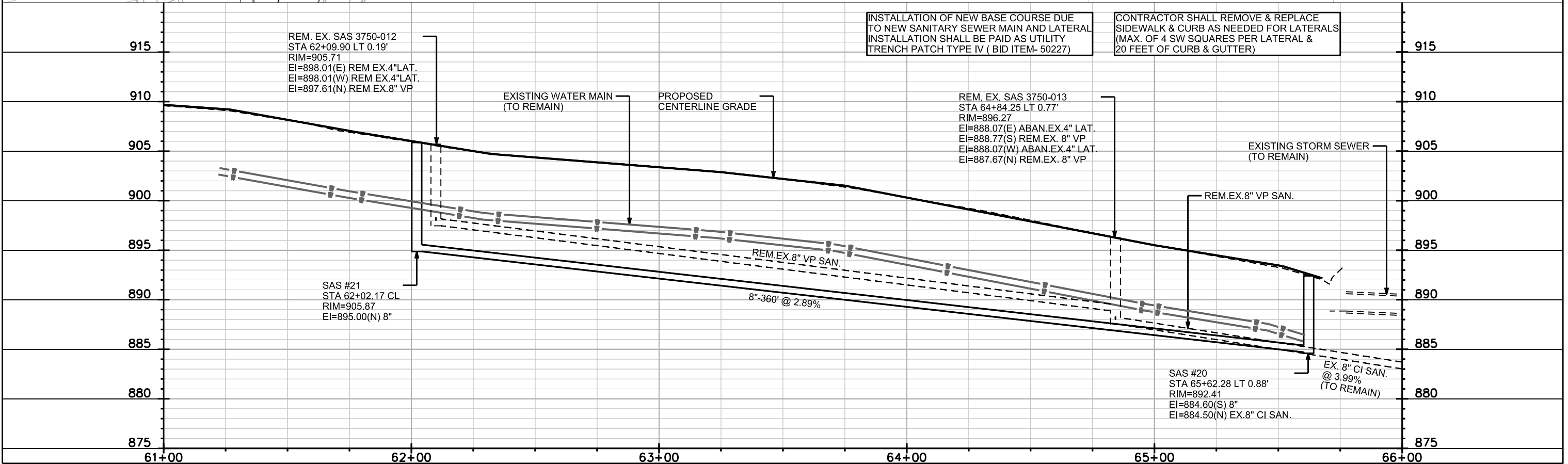
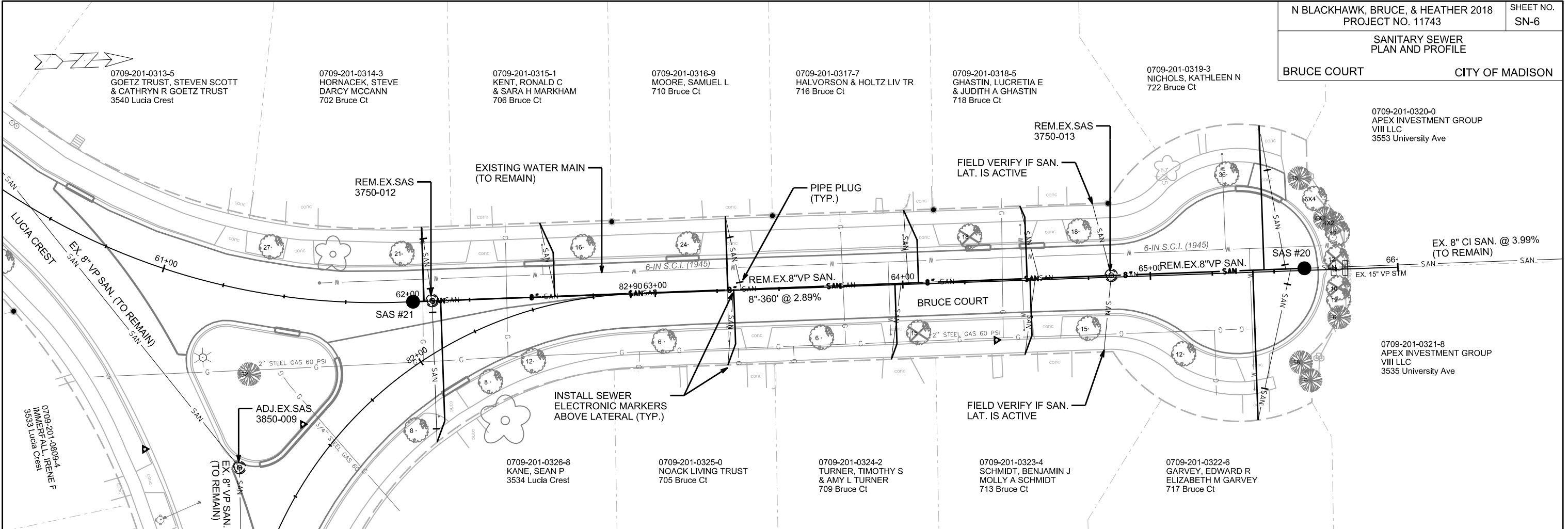
2. SAS #7A HAS NEW
LOCATION
(SEE SHEET SN-9)



REVISED 10/ 16/18- FBEG

1. SANITARY SEWER
MAIN IS UPSIZED FROM
12" TO 15" DIA. NO VERTICAL
OR HORIZONTAL CHANGES
WERE MADE.





INSTALLATION OF NEW BASE COURSE DUE TO NEW SANITARY SEWER MAIN AND LATERAL INSTALLATION SHALL BE PAID AS UTILITY TRENCH PATCH TYPE IV (BID ITEM- 50227)

CONTRACTOR SHALL REMOVE & REPLACE SIDEWALK & CURB AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL & 20 FEET OF CURB & GUTTER)

PLOT SCALE:

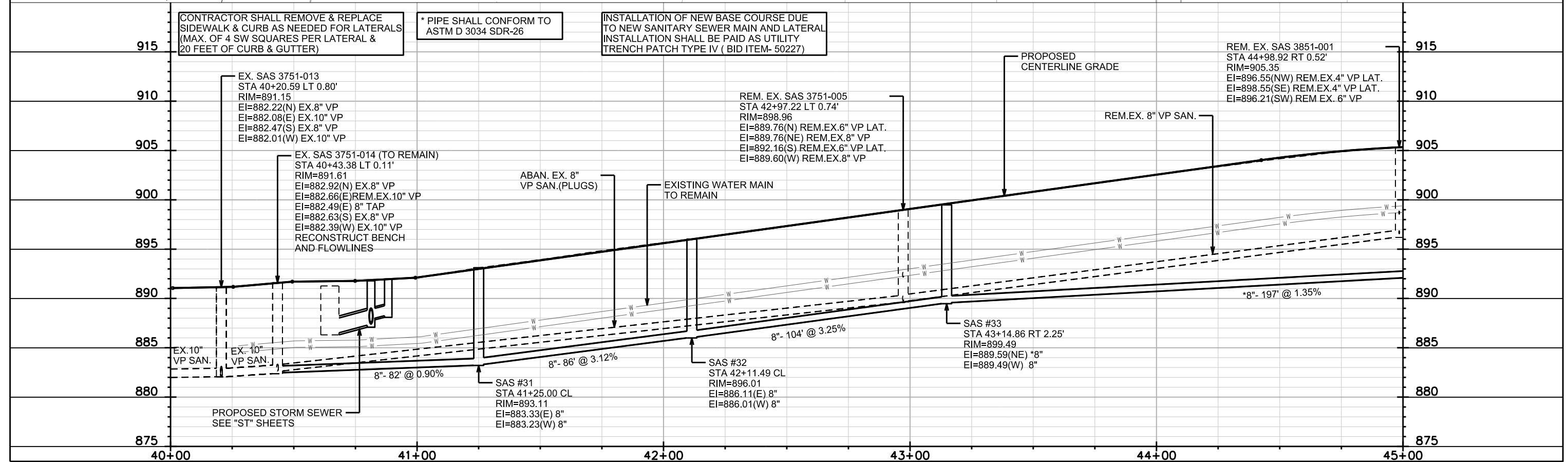
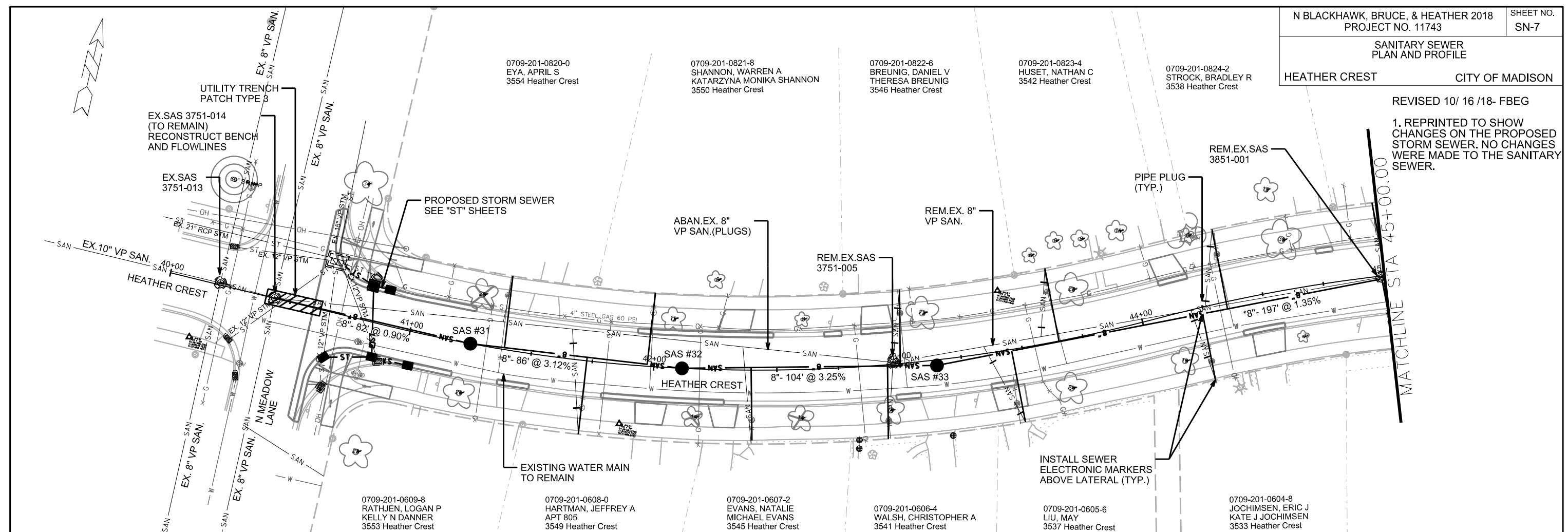
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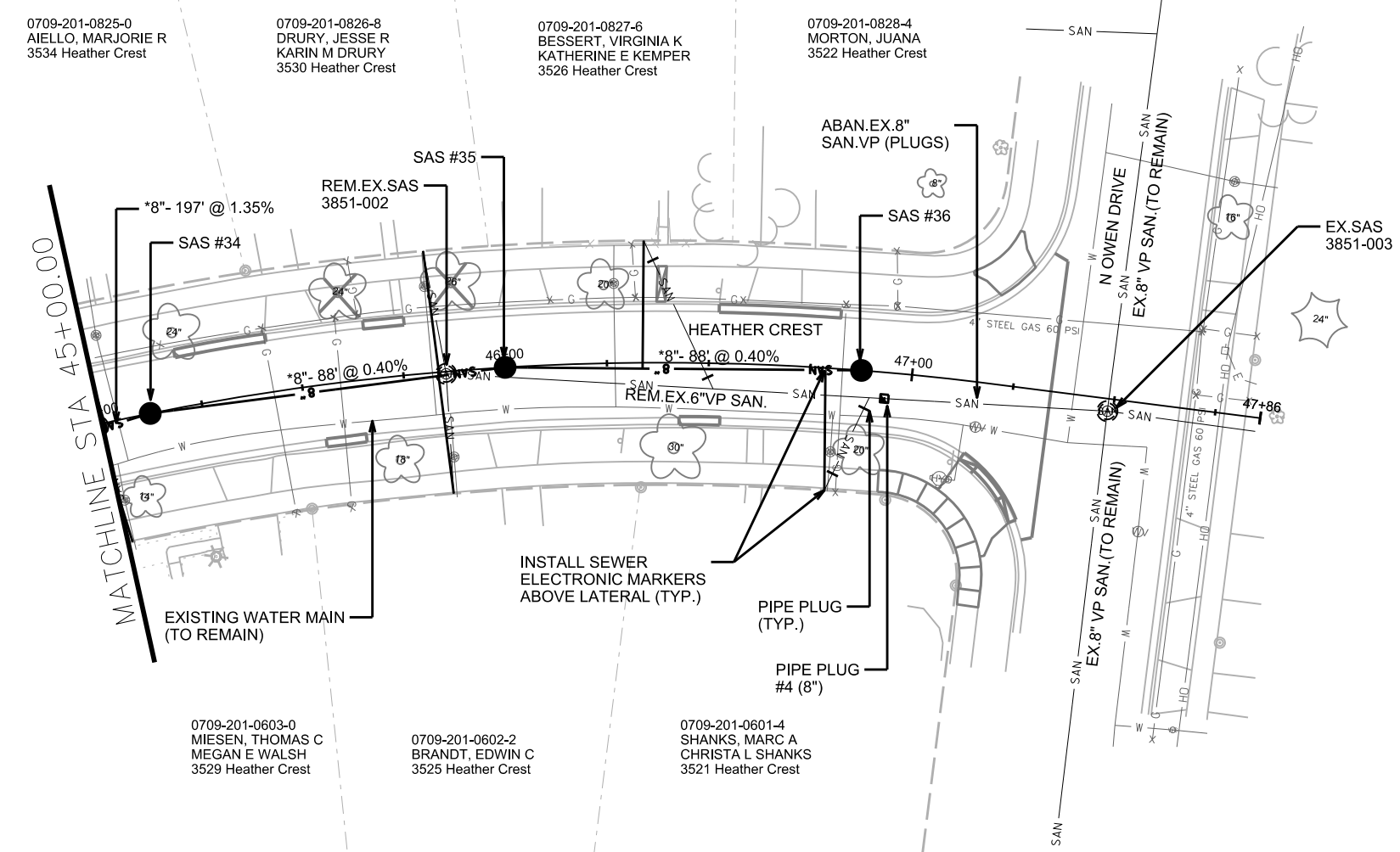
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 10/16/18- FBEG

1. REPRINTED TO SHOW CHANGES ON THE PROPOSED STORM SEWER. NO CHANGES WERE MADE TO THE SANITARY SEWER.





0709-201-0825-0
AIELLO, MARJORIE R
3534 Heather Crest

0709-201-0826-8
DRURY, JESSE R
KARIN M DRURY
3530 Heather Crest

0709-201-0827-6
BESSERT, VIRGINIA K
KATHERINE E KEMPER
3526 Heather Crest

0709-201-0828-4
MORTON, JUANA
3522 Heather Crest

0709-201-0603-0
MIESEN, THOMAS C
MEGAN E WALSH
3529 Heather Crest

0709-201-0602-2
BRANDT, EDWIN C
3525 Heather Crest

0709-201-0601-4
SHANKS, MARC A
CHRISTA L SHANKS
3521 Heather Crest

MATCHLINE STA 45+00.00

EXISTING WATER MAIN
(TO REMAIN)

INSTALL SEWER
ELECTRONIC MARKERS
ABOVE LATERAL (TYP.)

PIPE PLUG
(TYP.)

PIPE PLUG
#4 (8")

ABAN.EX.8"
SAN.VP (PLUGS)

N OWEN DRIVE
EX.8" VP SAN.(TO REMAIN)

EX.8" VP SAN.(TO REMAIN)

EX.SAS
3851-003

CONTRACTOR SHALL REMOVE & REPLACE
SIDEWALK & CURB AS NEEDED FOR LATERALS
(MAX. OF 4 SW SQUARES PER LATERAL &
20 FEET OF CURB & GUTTER)

* PIPE SHALL CONFORM TO
ASTM D 3034 SDR-26

INSTALLATION OF NEW BASE COURSE DUE
TO NEW SANITARY SEWER MAIN AND LATERAL
INSTALLATION SHALL BE PAID AS UTILITY
TRENCH PATCH TYPE IV (BID ITEM- 50227)

925
920
915
910
905
900
895
890
885

925
920
915
910
905
900
895
890
885

REM.EX.SAS
3851-002
STA 45+85.45 RT 0.55'
RIM=904.92
EI=898.22(SE)REM.EX.4"LAT.
EI=894.92(NW)REM.EX.4"LAT.
EI=894.42(E)REM.EX.6" VP

PROPOSED
CENTERLINE GRADE

EX.SAS
3851-003
STA 47+48.67 RT 3.07'
RIM=903.24
EI=894.84(E) EX.4" VP LAT.
EI=893.24(S) EX.8" VP
EI=893.34(W) ABAN.EX.6" VP
EI=893.14(W) EX.8" VP

ABAN.EX.8"
SAN. VP (PLUGS)

*8"- 197' @ 1.35%

SAS #34
STA 45+12.11 CL
RIM=905.39
EI=892.34(E) *8"
EI=892.24(SW) *8"

SAS #35
STA 46+00.00 CL
RIM=904.61
EI=892.79(E) *8"
EI=892.69(W) *8"

SAS #36
STA 46+87.52 CL
RIM=903.14
EI=893.14(W) *8"

45+00

46+00

47+00

47+86

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SEWER SCHEDULE

**REVISION 10 / 16 / 2018- FBEG
 ***REVISION 4 / 1 / 2018- FBEG

PROPOSED SANITARY SEWER ACCESS STRUCTURES

PROPOSED SANITARY SEWER PIPES

STRUC. NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	DIA. (FT)	NOTES
N BLACKHAWK AVENUE							
SAS #1	31+06.30	LT-0.45	882.65	872.78	9.87	4	[1]
SAS #2	30+31.90	RT-0.92	882.98	873.09	9.89	4	-
SAS #3	29+30.21	RT-2.63	883.24	873.48	9.76	4	-
SAS #4	28+49.15	RT-2.69	883.22	873.81	9.41	4	-
SAS #5	27+34.36	RT-3.27	883.77	874.23	9.54	4	-
SAS #6	25+81.12	RT-4.13	885.30	874.76	10.54	4	-
SAS #6A	25+82.32	LT-57.82	885.83	877.07	8.76	4	-
SAS #7	22+26.69	RT-3.95	891.05	880.13	10.92	4	-
** SAS #7A	22+26.22	LT-41.71	890.71	880.59	10.12	4	-
*** SAS #9	17+83.24	RT-3.95	907.17	882.40	24.77	4	-
SAS #10	17+44.52	RT-9.40	906.70	882.64	24.06	4	-
SAS #11	14+74.17	RT-8.65	901.34	883.59	17.75	4	[2]
SAS #12	12+66.06	RT-8.71	899.39	884.40	14.99	4	-
SAS #13	10+52.41	RT-8.96	898.42	885.23	13.19	4	[1]
SAS #14	10+13.79	LT-11.05	898.50	885.48	13.02	4	[1]
BRUCE COURT							
SAS #20	65+62.28	LT-0.88	892.41	884.50	7.91	4	-
SAS #21	62+02.17	CL	905.87	895.00	10.87	4	-
HEATHER CREST							
SAS #31	41+25.00	CL	893.11	883.23	9.88	4	-
SAS #32	42+11.49	CL	896.01	886.01	10.00	4	-
SAS #33	43+14.86	RT-2.25	899.49	889.49	10.00	4	-
SAS #34	45+12.11	CL	905.39	892.24	13.15	4	-
SAS #35	46+00.00	CL	904.61	892.69	11.92	4	-
SAS #36	46+87.52	CL	903.14	893.14	10.00	4	-

FROM SAS (DOWNSTREAM)	TO SAS (UPSTREAM)	E.I. (DOWNSTREAM)	E.I. (UPSTREAM)	LENGTH (FT)	SLOPE (%)	SIZE	PVC TYPE	NOTES
N BLACKHAWK AVENUE								
** SAS 3850-018	SAS #1	872.57	872.78	74	0.28%	15"	SDR-26	-
** SAS #1	SAS #2	872.88	873.09	74	0.28%	15"	SDR-26	-
** SAS #2	SAS #3	873.19	873.48	102	0.28%	15"	SDR-26	-
** SAS #3	SAS #4	873.58	873.81	82	0.28%	15"	SDR-26	-
** SAS #4	SAS #5	873.91	874.23	115	0.28%	15"	SDR-26	-
** SAS #5	SAS #6	874.33	874.76	153	0.28%	15"	SDR-26	-
** SAS #6	SAS #7	874.86	880.13	355	1.48%	15"	SDR-26	-
SAS #6	SAS #6A	875.05	877.07	62	3.26%	8"	SDR-26	-
** SAS #7	SAS #9	880.23	882.40	443	0.49%	15"	SDR-26	-
SAS #7	SAS #7A	880.23	880.59	46	0.78%	8"	SDR-26	-
** SAS #9	SAS #10	882.50	882.64	39	0.36%	15"	SDR-26	-
** SAS #10	SAS #11	882.74	883.59	270	0.31%	15"	SDR-26	-
** SAS #11	SAS #12	883.69	884.40	208	0.34%	15"	SDR-26	-
** SAS #12	SAS #13	884.50	885.23	214	0.34%	15"	SDR-26	-
** SAS #13	SAS #14	885.33	885.48	44	0.34%	15"	SDR-26	-
BRUCE COURT								
SAS #20	SAS #21	884.60	895.00	360	2.89%	8"	SDR-35	-
HEATHER CREST								
SAS #3751-014	SAS #31	882.49	883.23	82	0.90%	8"	SDR-35	-
SAS #31	SAS #32	883.33	886.01	86	3.12%	8"	SDR-35	-
SAS #32	SAS #33	886.11	889.49	104	3.25%	8"	SDR-35	-
SAS #33	SAS #34	889.59	892.24	197	1.35%	8"	SDR-26	-
SAS #34	SAS #35	892.34	892.69	88	0.40%	8"	SDR-26	-
SAS #35	SAS #36	892.79	893.14	88	0.40%	8"	SDR-26	-

SPECIFIC NOTES:

- [1] INSTALL INTERNAL CHIMNEY SEAL
- [2] INSTALL 8" OUTSIDE DROP- 2.2 V.F.

PLOT SCALE: ---
PLOT NAME: ---
REV. DATE: ---

ORIGINATOR: CITY OF MADISON STREETS DIVISION

SANITARY SEWER SCHEDULE

N BLACKHAWK, BRUCE, & HEATHER 2018 PROJECT NO. 11743	SHEET NO. SN-10
SANITARY SEWER SCHEDULE	
CITY OF MADISON	

REMOVE OR ABANDON SANITARY SEWER ACCESS STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES
<u>N BLACKHAWK AVENUE</u>						
SAS 3850-019	31+05.26	RT-89.34	882.06	874.40	7.66	REMOVE
SAS 3850-011	29+57.83	RT-30.69	882.59	875.39	7.20	REMOVE
SAS 3850-012	29+51.14	RT-44.56	882.60	875.10	7.50	REMOVE
SAS 3850-013	27+59.50	LT-8.48	883.93	876.73	7.20	REMOVE
SAS 3850-014	27+34.41	RT-5.79	884.15	876.05	8.10	REMOVE
SAS 3850-015	25+81.38	LT-7.70	885.67	878.67	7.00	REMOVE
SAS 3850-016	24+62.98	RT-5.65	887.14	879.04	8.10	REMOVE
SAS 3850-017	23+59.76	LT-10.06	888.75	881.09	7.66	REMOVE
SAS 3851-020	22+33.56	LT-9.75	891.21	881.83	9.38	REMOVE
SAS 3851-021	22+34.21	RT-4.09	891.19	882.59	8.60	REMOVE
SAS 3851-022	19+85.18	LT-10.71	902.84	883.84	19.00	REMOVE
SAS 3851-023	19+84.30	RT-4.53	903.30	894.64	8.66	REMOVE
SAS 3851-024	18+03.71	RT-4.17	907.28	898.50	8.78	REMOVE
SAS 3851-007	15+85.14	LT-11.00	903.46	884.78	18.68	REMOVE
SAS 3851-016	14+74.44	LT-10.33	901.63	884.87	16.76	REMOVE
SAS 3852-012	11+84.73	LT-11.32	898.99	885.55	13.44	REMOVE
SAS 3852-011	10+52.78	LT-11.45	898.21	885.43	12.78	REMOVE
<u>BRUCE COURT</u>						
SAS 3750-013	64+84.25	LT-0.77	896.27	887.67	8.60	REMOVE
SAS 3750-012	62+09.90	LT-0.19	905.71	897.61	8.10	REMOVE
<u>HEATHER CREST</u>						
SAS 3751-005	42+97.22	LT-0.74	898.96	889.60	9.36	REMOVE
SAS 3851-001	44+98.92	RT-0.52	905.35	896.21	9.14	REMOVE
SAS 3851-002	45+85.45	RT-0.55	904.92	894.42	10.50	REMOVE

RECONSTRUCT BENCH AND FLOWLINES

SAS NO.	STATION	LOCATION (OFFSET)
<u>N BLACKHAWK AVENUE</u>		
SAS 3850-018	31+20.04	RT-72.36
<u>HEATHER CREST</u>		
SAS 3751-014	40+43.38	LT-0.11

ADJUST SANITARY SEWER ACCESS STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	EX. RIM	ADJUST RIM	DIFF. (FT)	NOTES
<u>BRUCE COURT</u>						
SAS 3850-009	61+43.30	RT-71.02	908.32	908.32	0.00	-

PIPE PLUGS

PIPE PLUG NO.	STATION	LOCATION (OFFSET)	SIZE (IN)	PAID (Y/N)
<u>N BLACKHAWK AVENUE</u>				
PIPE PLUG - 1	29+34.58	RT-18.07	10	Y
PIPE PLUG - 2	28+82.57	RT-15.23	8	Y
PIPE PLUG - 3	17+71.25	LT-10.86	10	Y
<u>HEATHER CREST</u>				
PIPE PLUG - 4	46+93.71	RT-6.43	8	Y

REMOVE OR SANITARY SEWER PIPE

FROM SAS (DOWNSTREAM)	TO SAS (UPSTREAM)	LENGTH (FT)	PAID (Y/N)	PLAN (PAY) LGTH (FT)	SIZE (DIA) (IN)	PIPE TYPE	NOTES
<u>N BLACKHAWK AVENUE</u>							
PIPE PLUG #1	SAS 3850-013	177	Y	81	10"	VP	-
PIPE PLUG #2	SAS 3850-014	150	Y	150	8"	VP	-
SAS 3850-013	SAS 3850-015	174	N	0	10"	VP	-
SAS 3850-014	SAS 3850-016	271	N	0	8"	VP	-
SAS 3850-015	SAS 3850-017	221	Y	221	10"	VP	-
SAS 3850-015	SAS #6A	48	N	0	10"	VP	-
SAS 3850-016	SAS 3851-021	228	N	0	8"	VP	-
SAS 3850-017	SAS 3851-020	120	Y	120	10"	VP	-
SAS 3851-020	SAS #7A	31	Y	31	10"	VP	-
SAS 3851-021	SAS 3851-023	250	N	0	6"	VP	-
SAS 3851-020	SAS 3851-022	245	Y	245	10"	VP	-
SAS 3851-023	SAS 3851-024	177	N	0	6"	VP	-
SAS 3851-022	PIPE PLUG #3	212	Y	212	10"	VP	-
SAS 3851-016	SAS #11	16	Y	16	8"	VP	-
SAS 3852-011	SAS #13	20	Y	20	8"	CIP	SAW CUT LINED PIPE
<u>BRUCE COURT</u>							
SAS #20	SAS 3750-013	78	N	0	8"	VP	-
SAS 3750-013	SAS 3750-012	274	N	0	8"	VP	-
<u>HEATHER CREST</u>							
SAS 3751-005	SAS 3851-001	201	N	0	8"	VP	-
PIPE PLUG #4	SAS 3851-002	107	Y	60	6"	VP	-

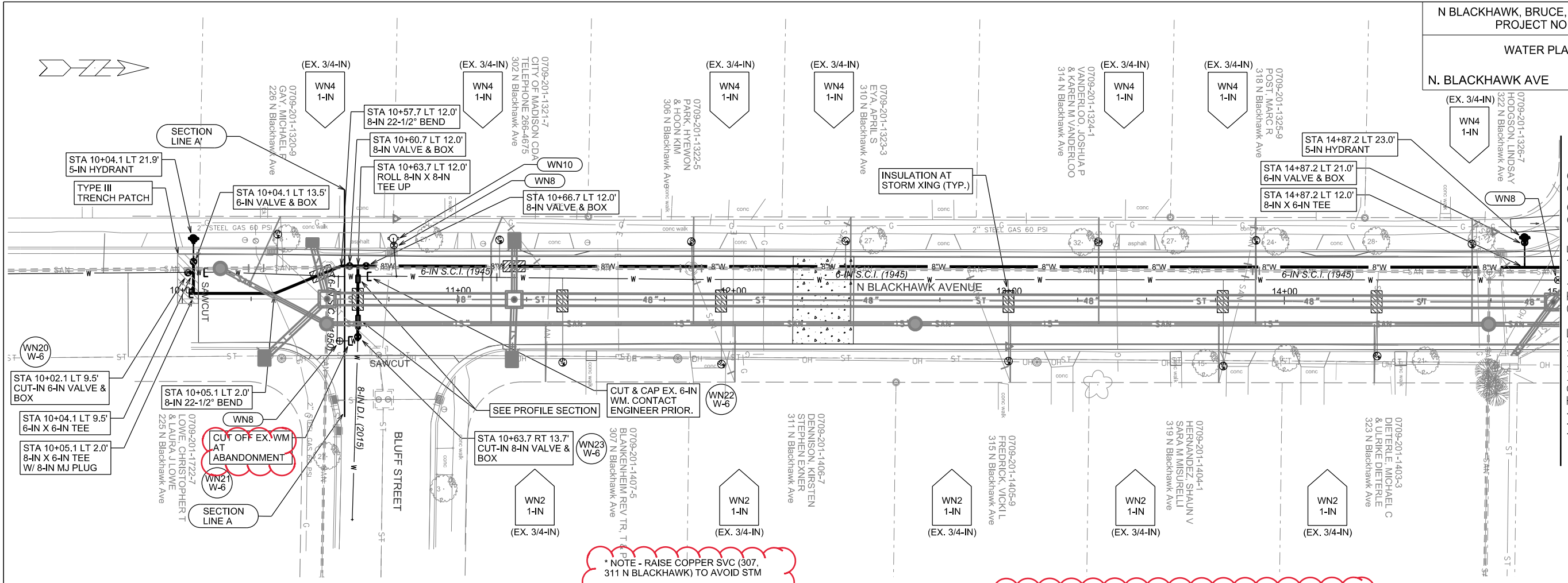
ABANDON SANITARY SEWER PIPE (PLUGS/ SLURRY)

FROM (DOWNSTREAM)	TO (UPSTREAM)	LENGTH (FT.)	PAID (Y/N)	PIPE SIZE (IN.)	VOLUME (C.Y.)	TYPE MATERIAL	NOTES
<u>N BLACKHAWK AVENUE</u>							
SAS 3850-018	SAS 3850-011	136	N	10	-	VP	PLUGS
SAS 3850-018	SAS 3850-019	16	N	8	-	PVC	PLUGS
SAS 3850-019	SAS 3850-012	125	N	8	-	VP	PLUGS
SAS 3850-011	PIPE PLUG #1	26	N	10	-	VP	PLUGS
SAS 3850-012	PIPE PLUG #2	79	N	8	-	VP	PLUGS
PIPE PLUG #3	SAS 3851-007	186	N	10	-	VP	PLUGS
SAS 3851-007	SAS 3851-016	107	N	10	-	VP	PLUGS
SAS 3851-016	SAS 3852-012	286	N	10	-	VP	PLUGS
SAS 3852-012	SAS 3852-011	127	N	10	-	VP	PLUGS
SAS 3852-011	SAS #14	44	N	10	-	VP	PLUGS
<u>HEATHER CREST</u>							
SAS 3751-014	SAS 3751-005	253	N	8	-	VP	PLUGS
SAS 3851-003	PIPE PLUG #4	52	N	8	-	VP	PLUGS

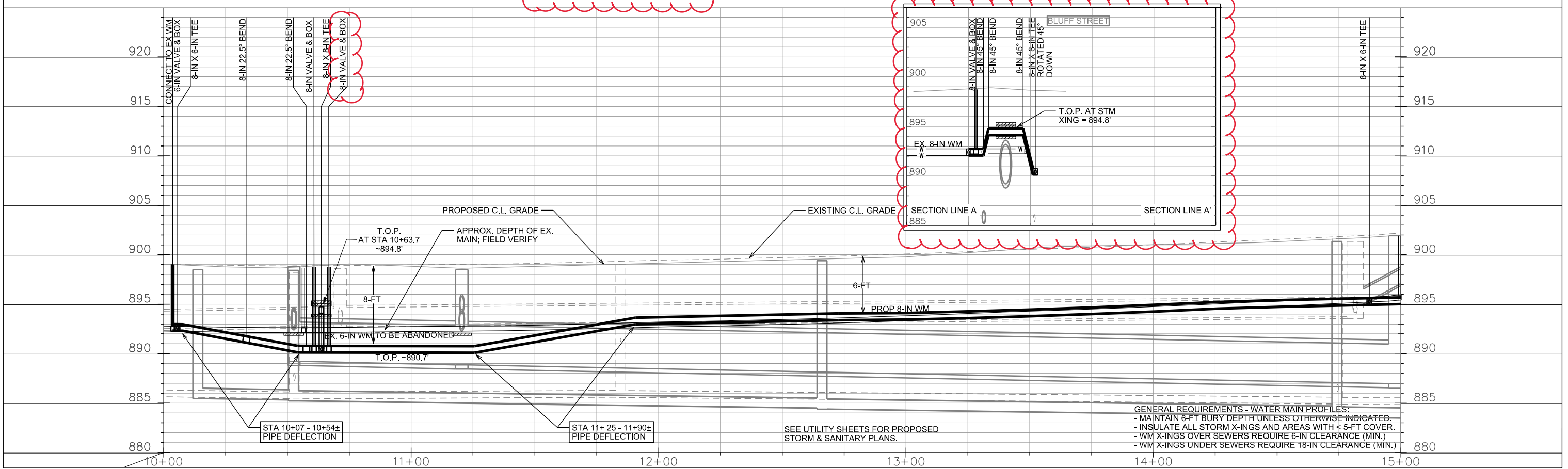
PLOT SCALE: --- REV. DATE: --- PLOT NAME: ---

ORIGINATOR: CITY OF MADISON STREETS DIVISION

2/27/19 AJ5 -
See x-section "A"
for Bluff St
connection, edited
WN21, added note
to address ex.
svcs in conflict with
prop. storm



* NOTE - RAISE COPPER SVC (307,
311 N BLACKHAWK) TO AVOID STM



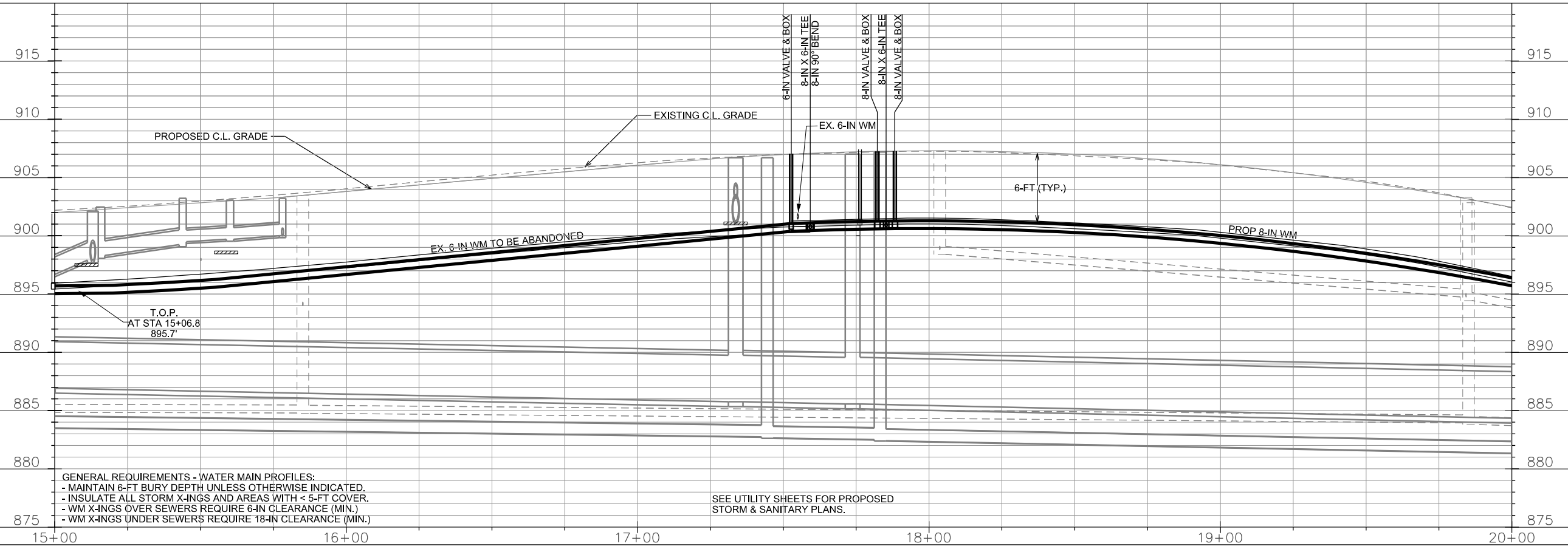
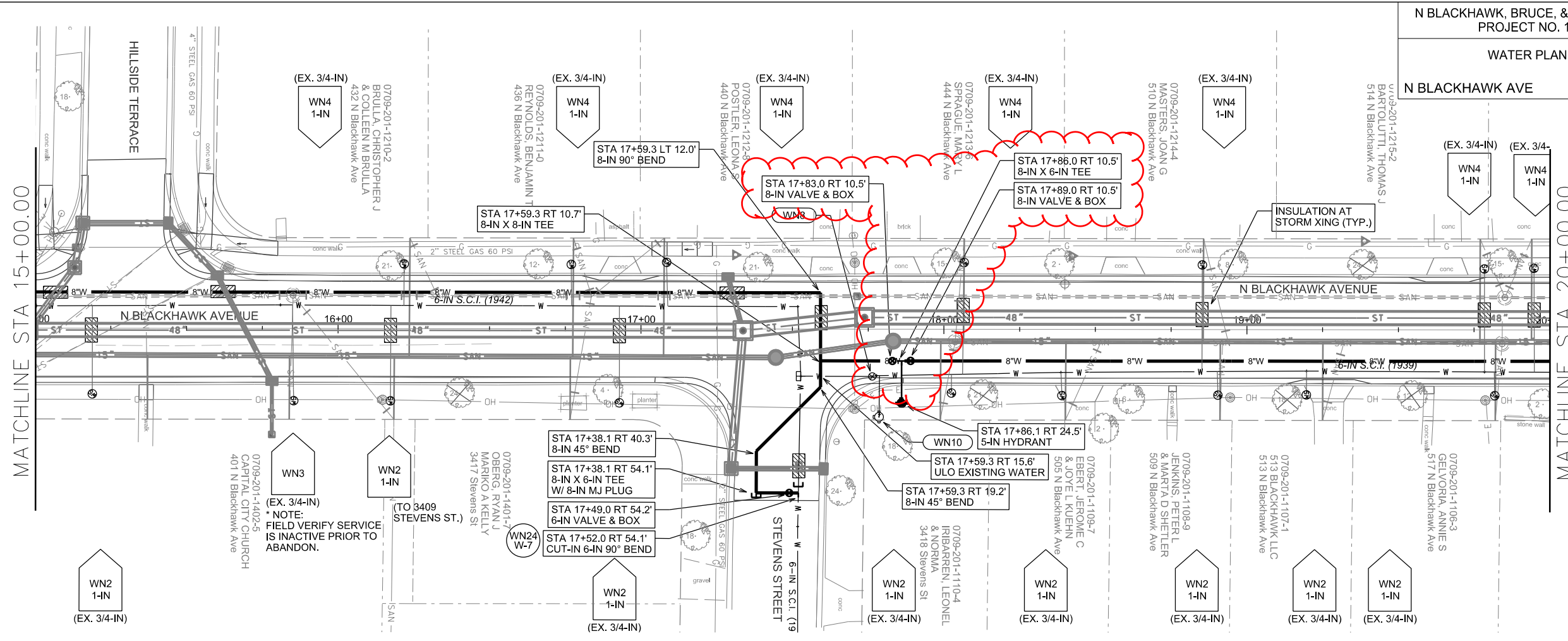
GENERAL REQUIREMENTS - WATER MAIN PROFILES:
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
- INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
- WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
- WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

WATER PLAN AND PROFILE

N BLACKHAWK AVE CITY OF MADISON

REVISED 4-1-19 - AJS

- Adjusted offset of water main from CL due to shifting of proposed sanitary eastward.
- Removed horizontal deflection points at STA 17+67.5 and STA 18+0.5.



GENERAL REQUIREMENTS - WATER MAIN PROFILES:
 - MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

SEE UTILITY SHEETS FOR PROPOSED STORM & SANITARY PLANS.

PLOT SCALE:

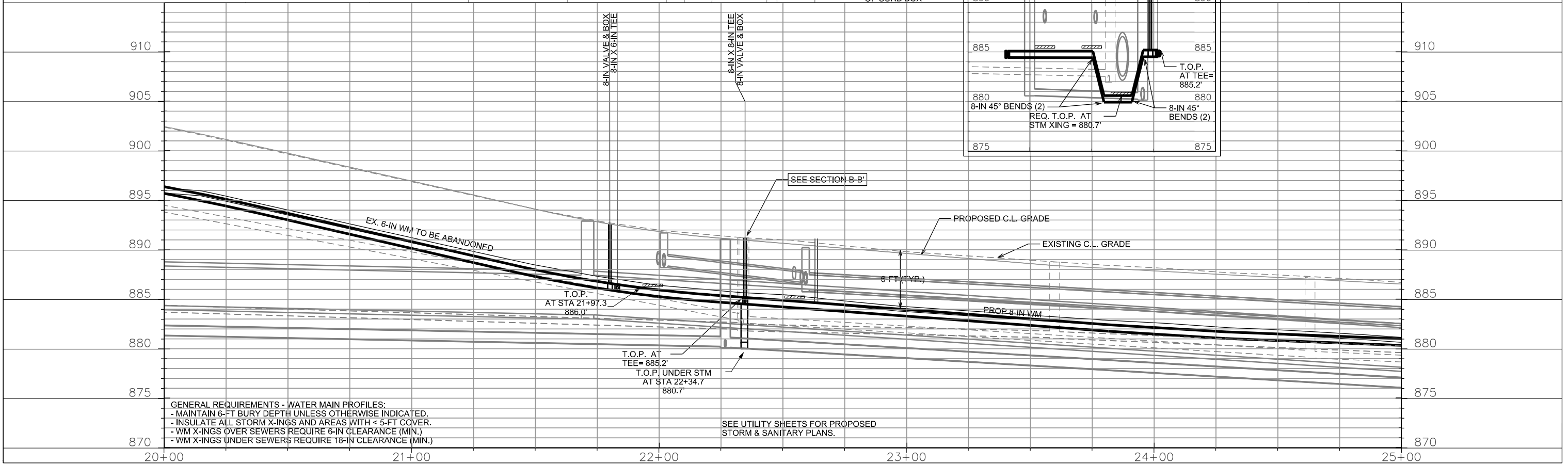
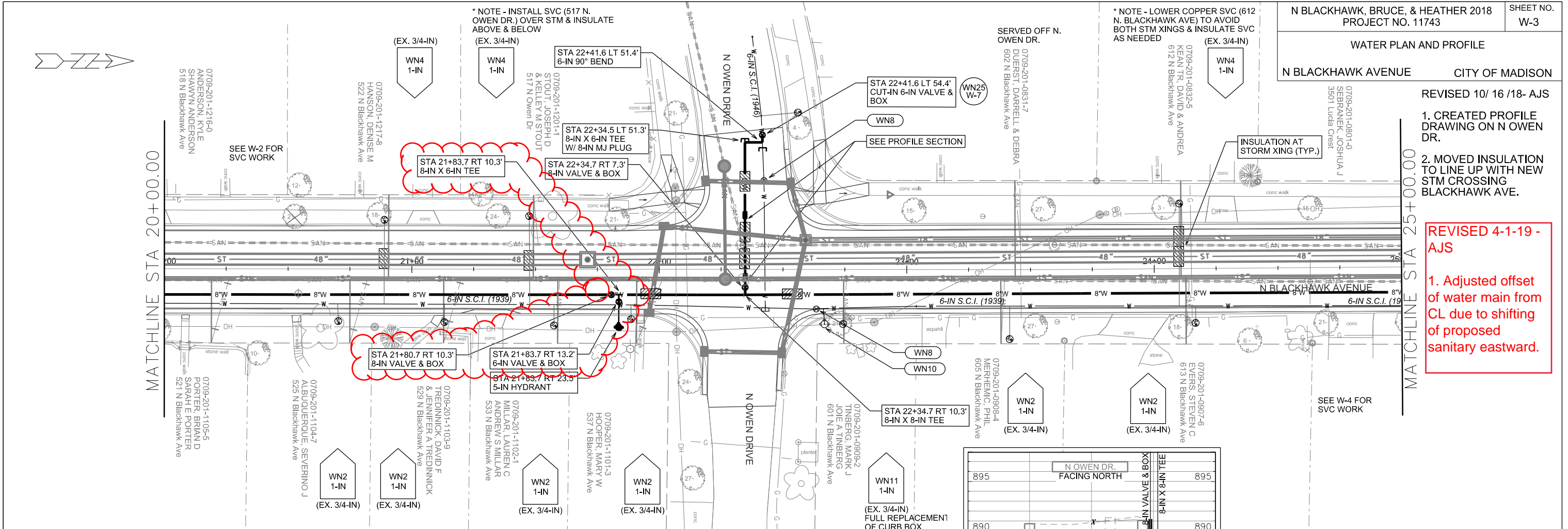
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 10/ 16/ 18- AJS
 1. CREATED PROFILE DRAWING ON N OWEN DR.
 2. MOVED INSULATION TO LINE UP WITH NEW STM CROSSING BLACKHAWK AVE.

REVISED 4-1-19 - AJS
 1. Adjusted offset of water main from CL due to shifting of proposed sanitary eastward.



GENERAL REQUIREMENTS - WATER MAIN PROFILES:
 - MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

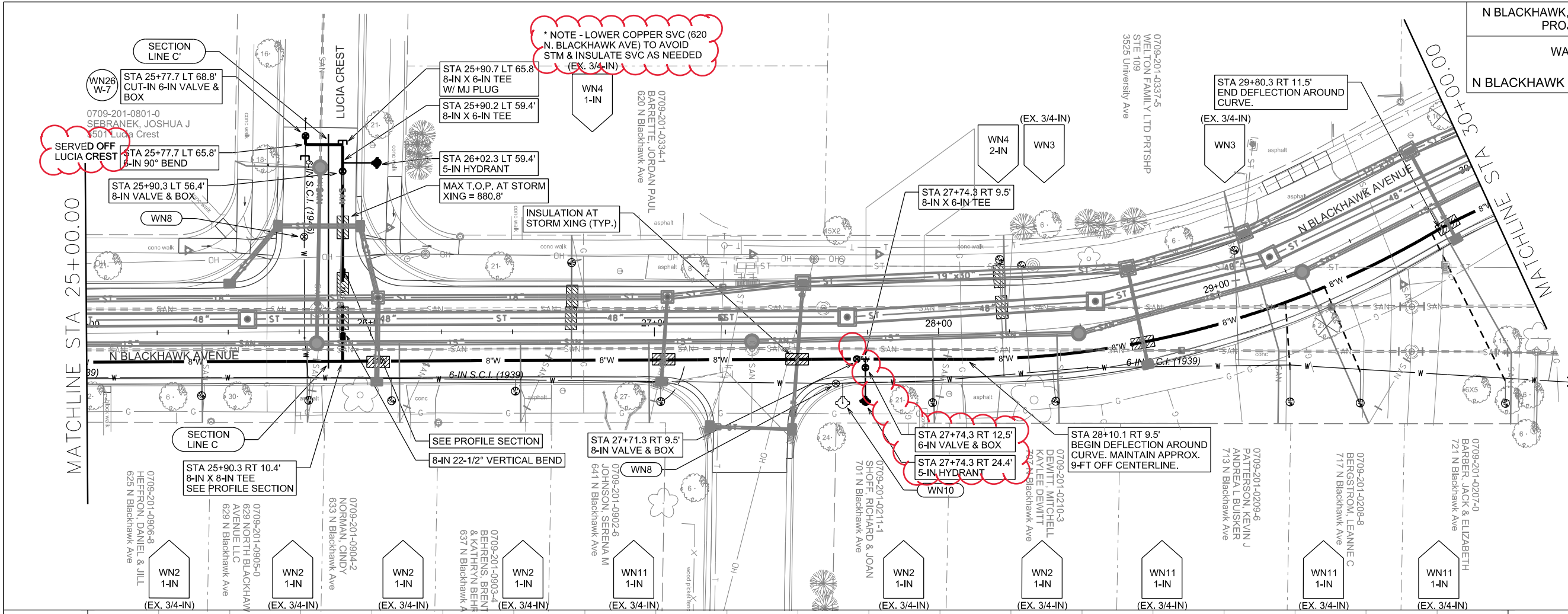
SEE UTILITY SHEETS FOR PROPOSED STORM & SANITARY PLANS.

PLOT SCALE:

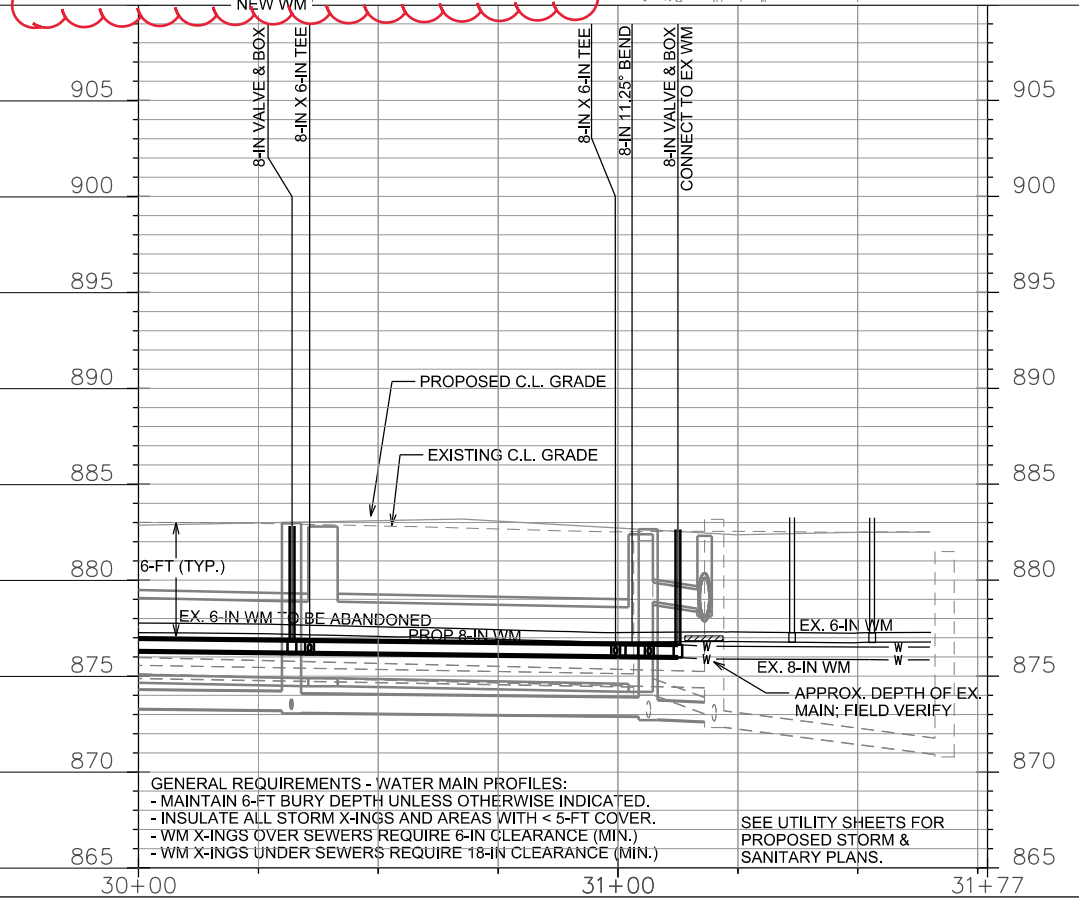
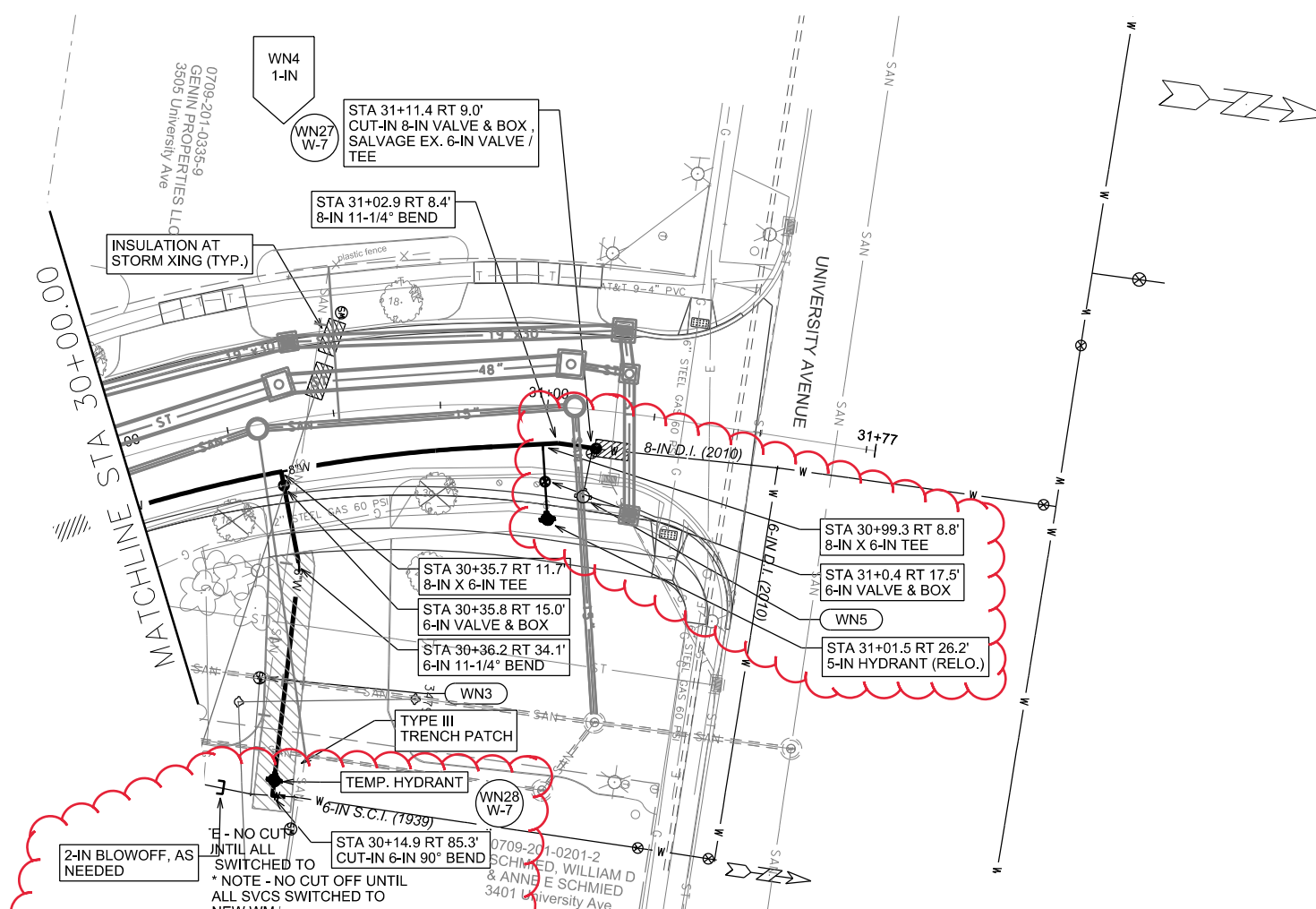
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



2/27/19 AJS -
moved prop. hyd.
east to avoid
conflict with ex.
hyd., call out temp
hyd. and blowoff



SEE UTILITY SHEETS FOR
PROPOSED STORM &
SANITARY PLANS.

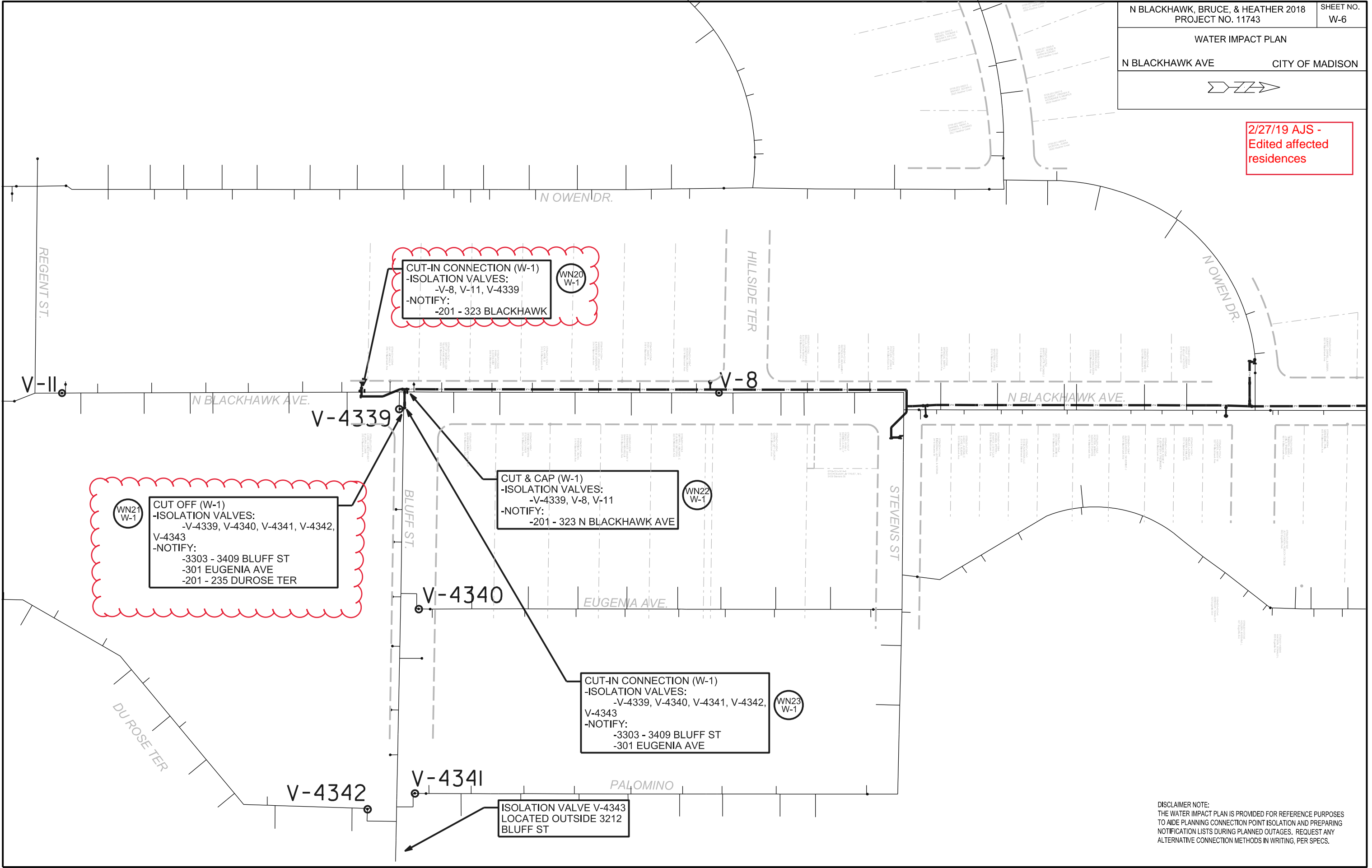
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

2/27/19 AJS -
Edited affected
residences



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

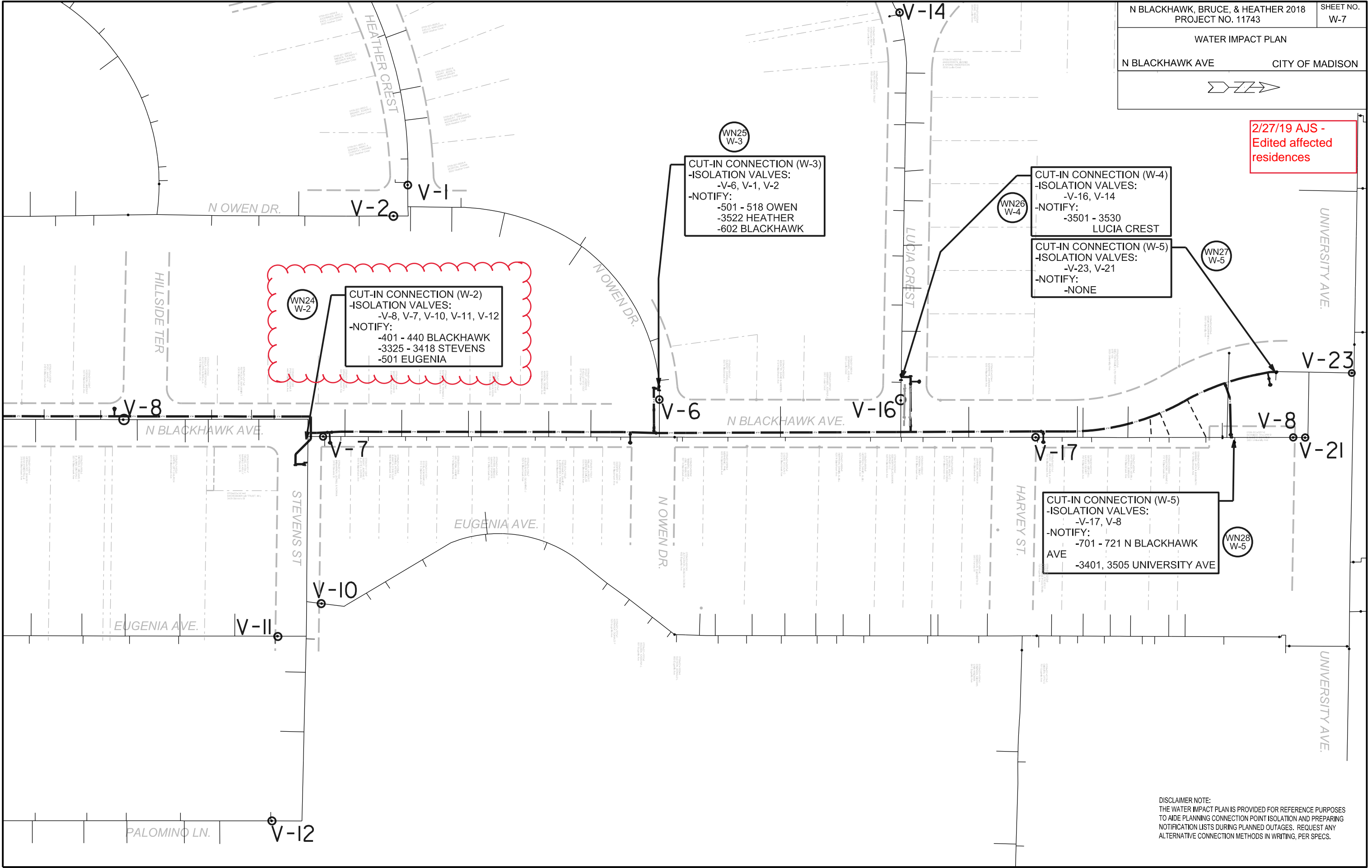
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

2/27/19 AJ5 -
Edited affected
residences



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

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

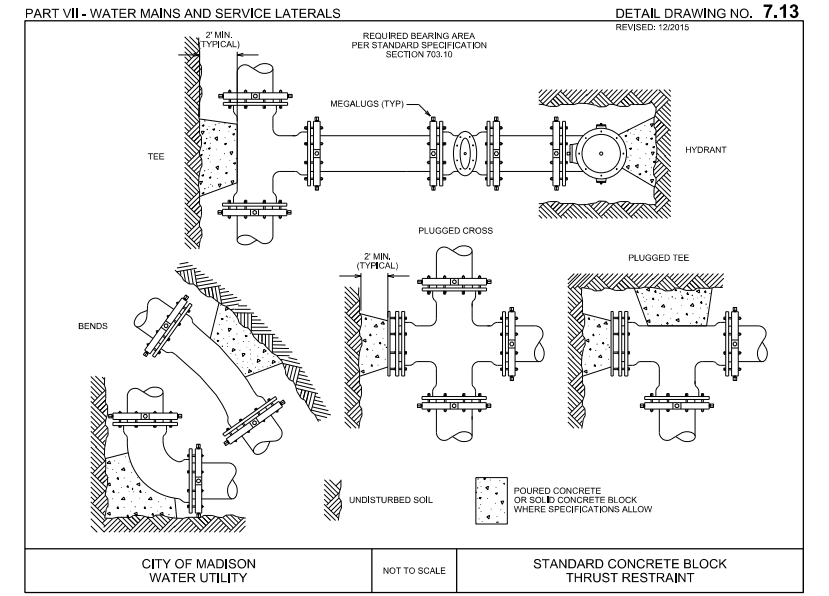
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

2/27/19 AJS -
Updated materials
count

CONSTRUCTION NOTES:

1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT STORM 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.

- 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.

- | | |
|-----------------------|------------------------------------|
| 340-FT - 6-IN PIPE | 2 - 6-IN MJ PLUG |
| 2500-FT - 8-IN PIPE | 4 - 8-IN MJ PLUG |
| | 2 - 6-IN MJ CAP |
| 10 - 6-IN VALVE & BOX | 7 - 5-IN HYDRANT |
| 10 - 8-IN VALVE & BOX | |
| 1 - 6-IN X 6-IN TEE | 5-IN TEMP. HYDRANT (AS REQ.) |
| 12 - 8-IN X 6-IN TEE | 336-FT - 2-IN STYROFOAM INSULATION |
| 3 - 8-IN X 8-IN TEE | 3100-FT - POLY WRAP |
| 4 - 6-IN 90° BEND | 1-IN TO 2-IN COPPER (AS REQ'D) |
| 1 - 8-IN 90° BEND | |
| 11 - 8-IN 45° BEND | |
| 4 - 8-IN 22-1/2° BEND | |
| 1 - 8-IN 11-1/4° BEND | |

ESTIMATE OF MATERIALS SALVAGED:

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

- 1 - 6-IN VALVE & BOX
- 1 - 8-IN X 6-IN TEE
- 2 - 5-IN HYDRANT

ESTIMATE OF MATERIALS REUSED:

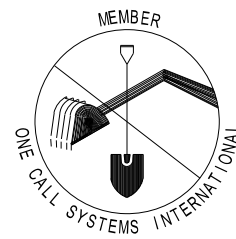
* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

- 1 - 5-IN HYDRANT

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

CALL DIGGERS HOTLINE
TOLL FREE
811 OR 1-800-242-8511
FAX-A-LOCATE 1-800-338-3860
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.

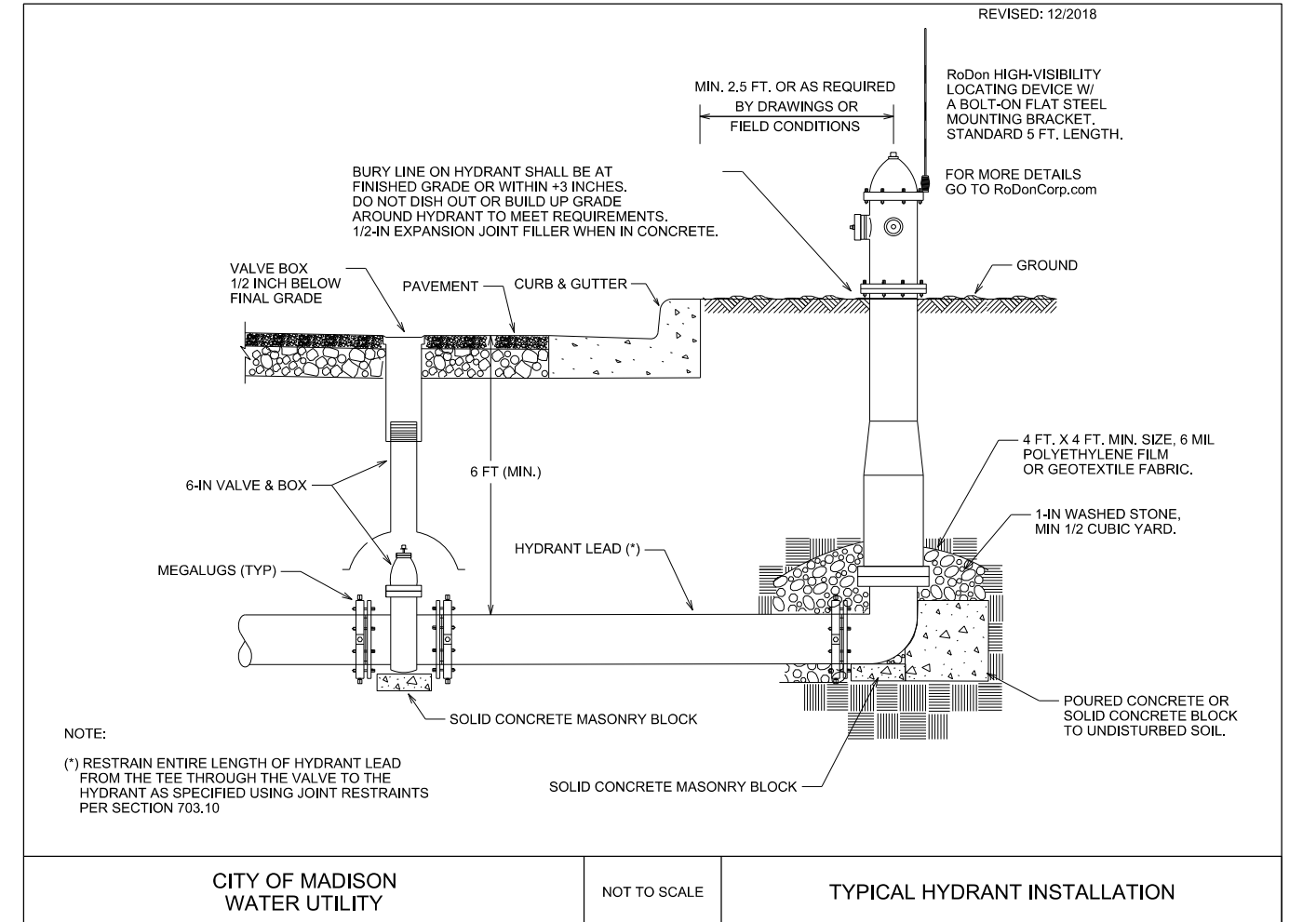


DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. 7.04

REVISED: 12/2018



PLOT SCALE:

PLOT NAME:

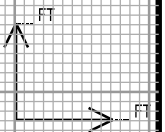
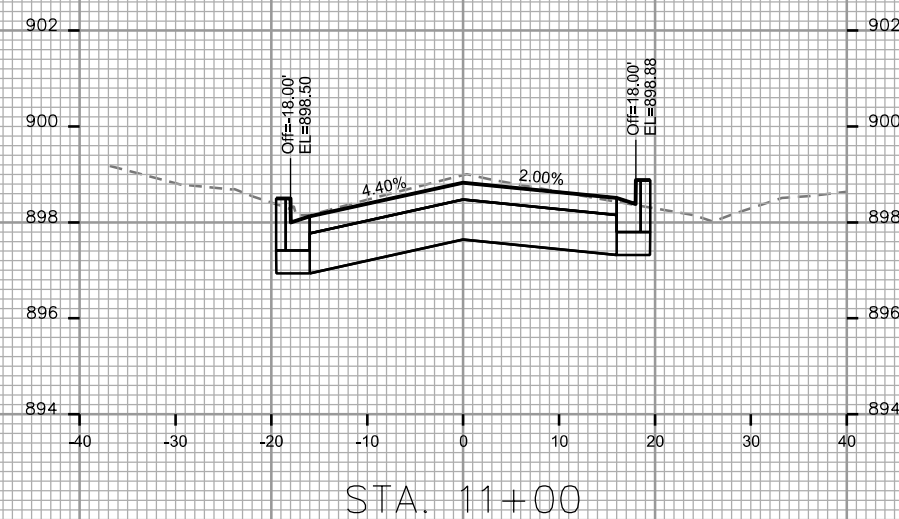
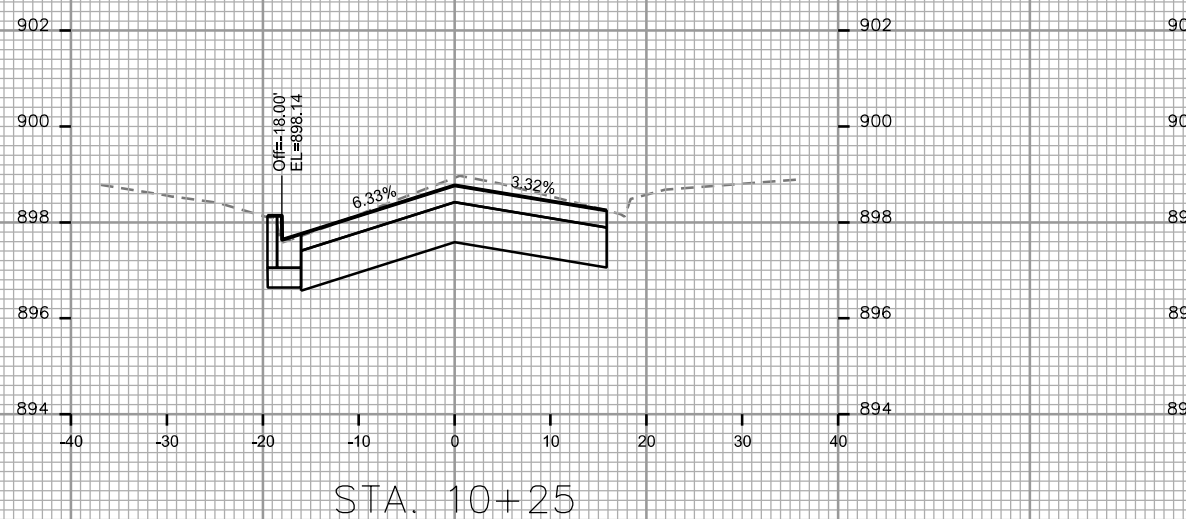
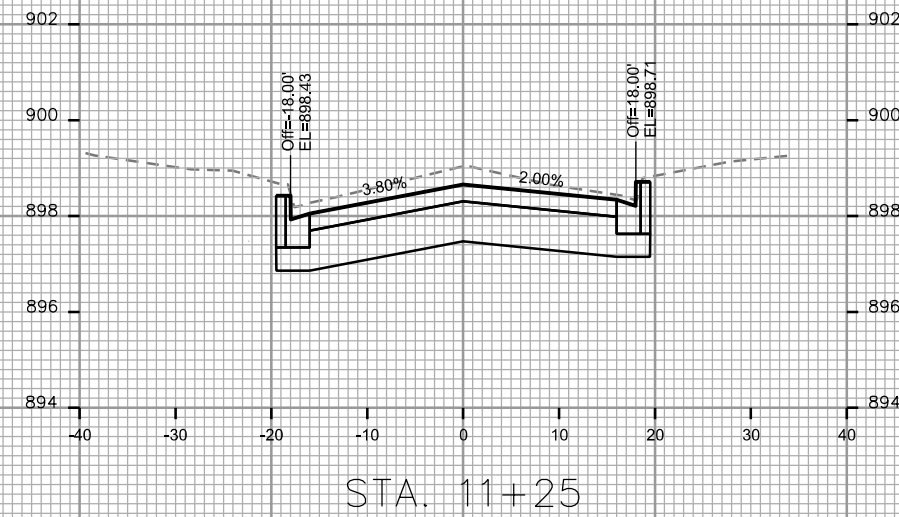
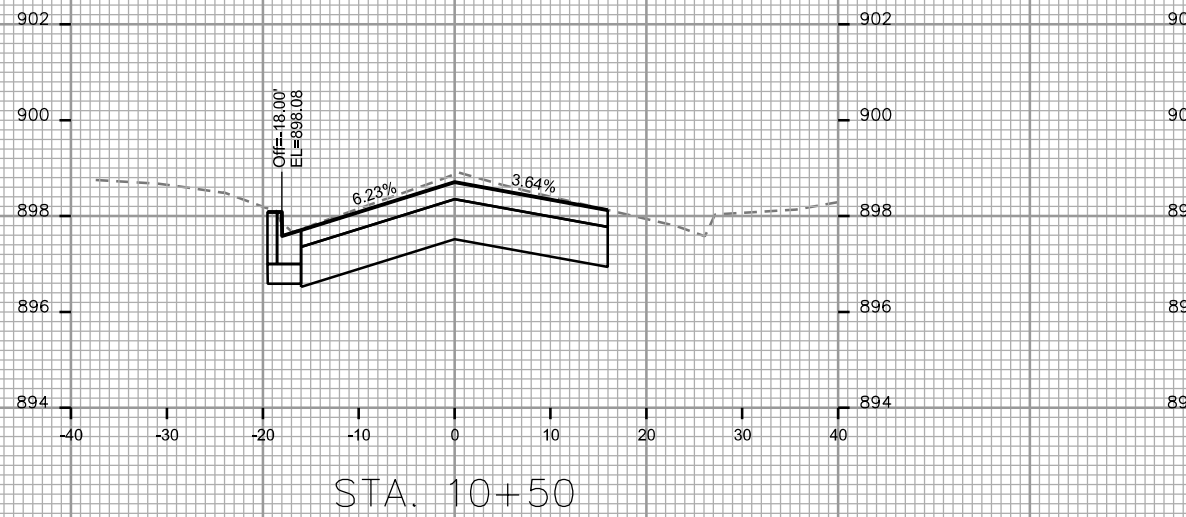
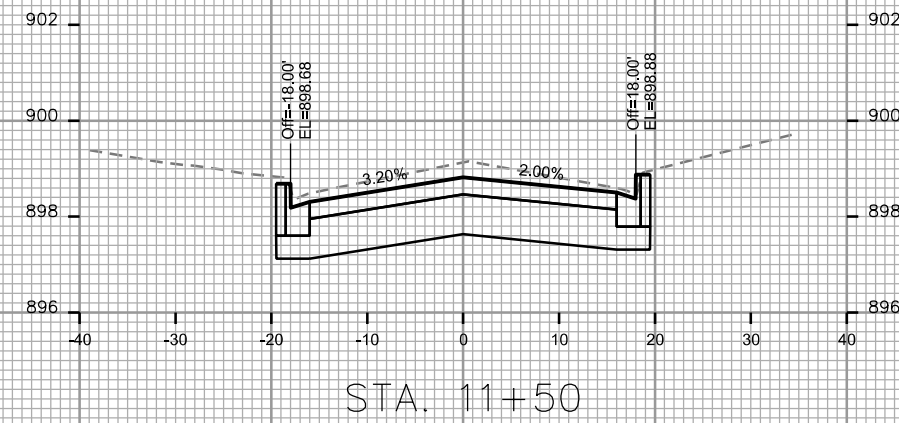
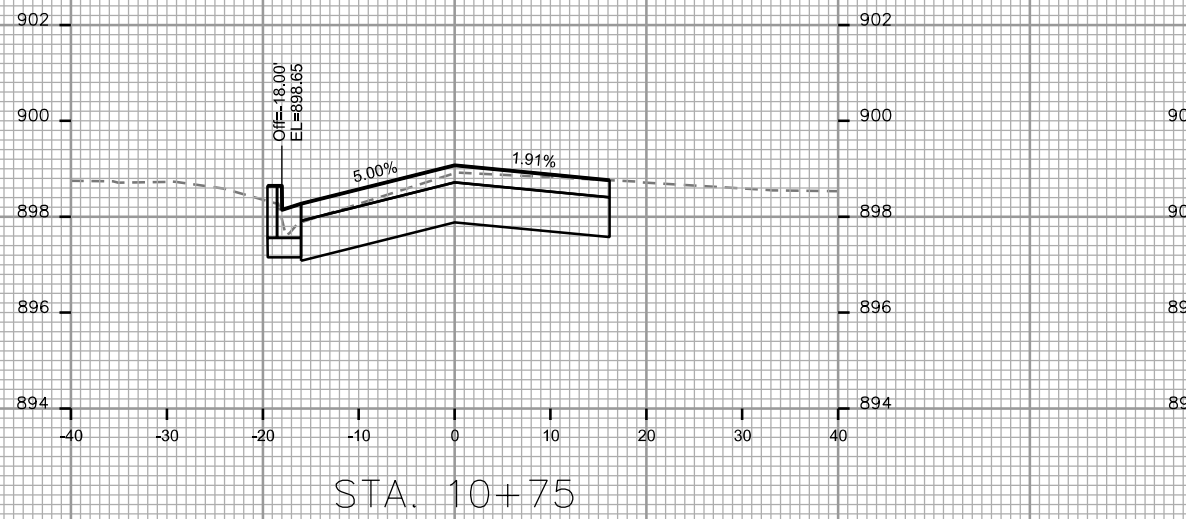
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

N BLACKHAWK AVE

CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

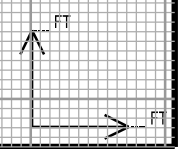
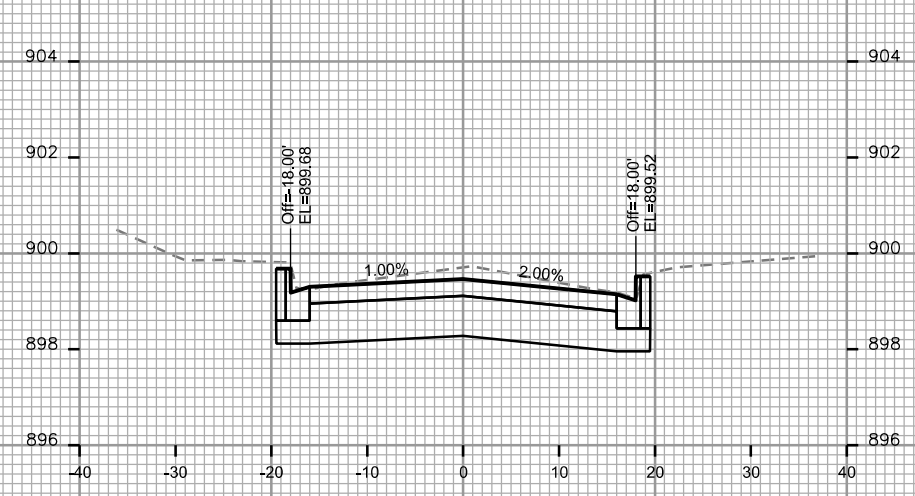
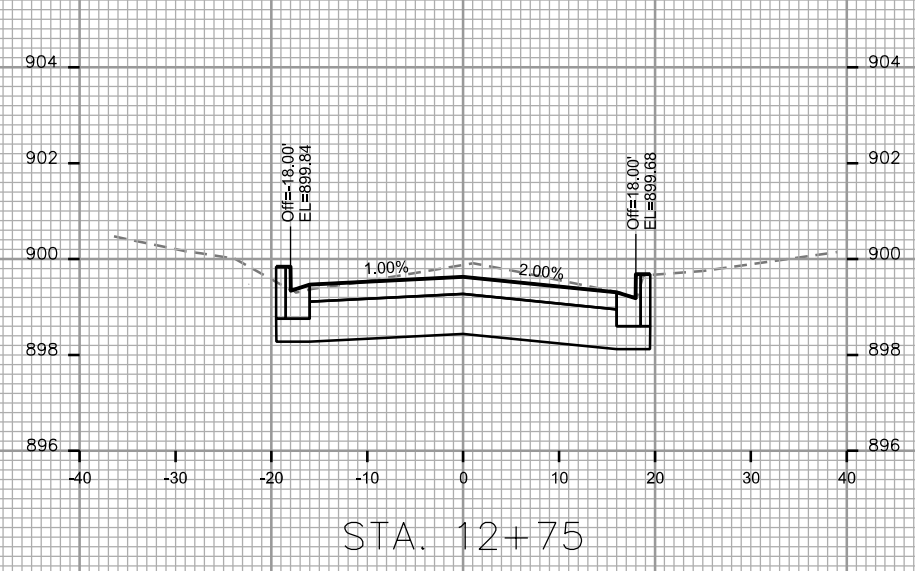
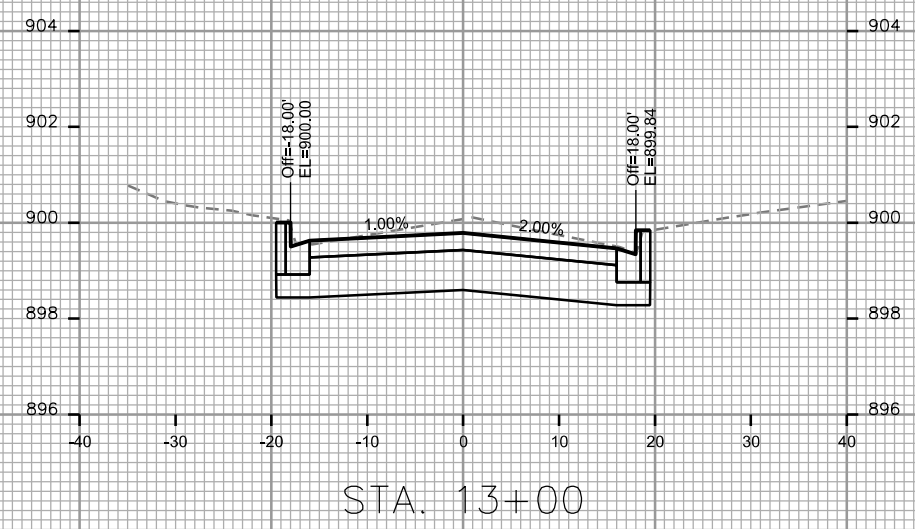
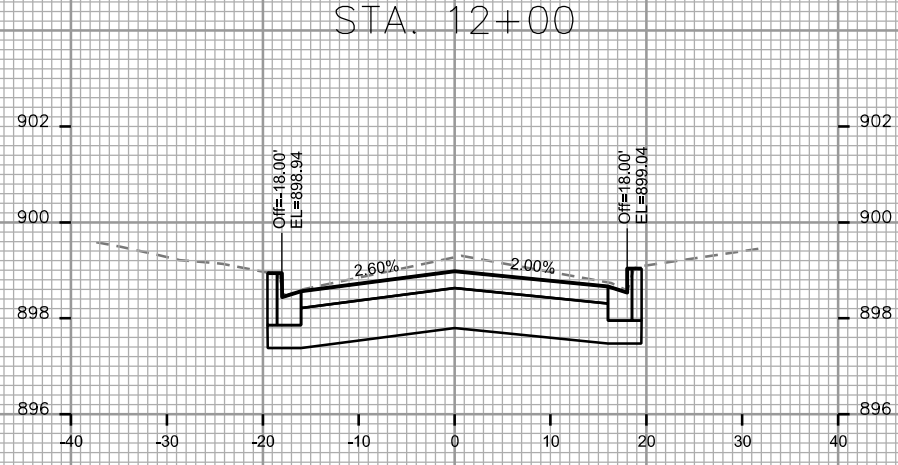
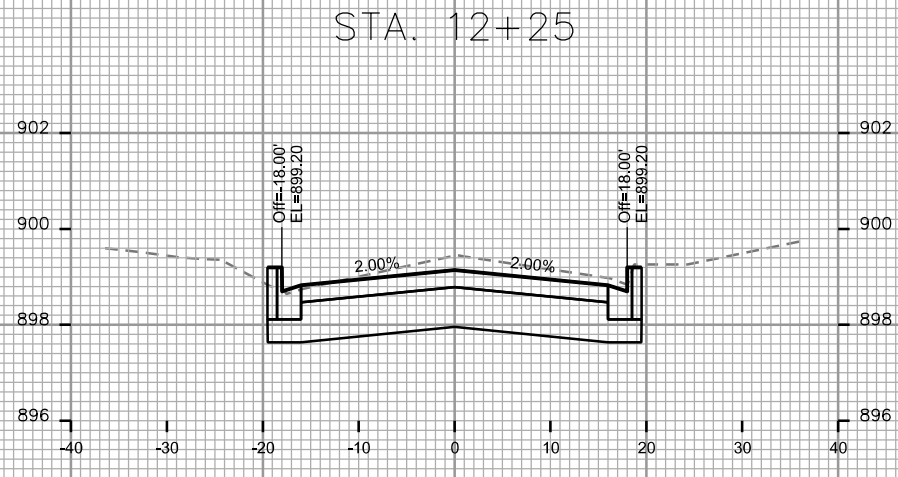
ORIGINATOR: CITY OF MADISON - STREETS DIVISION

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION

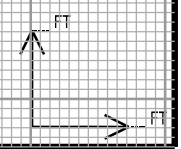
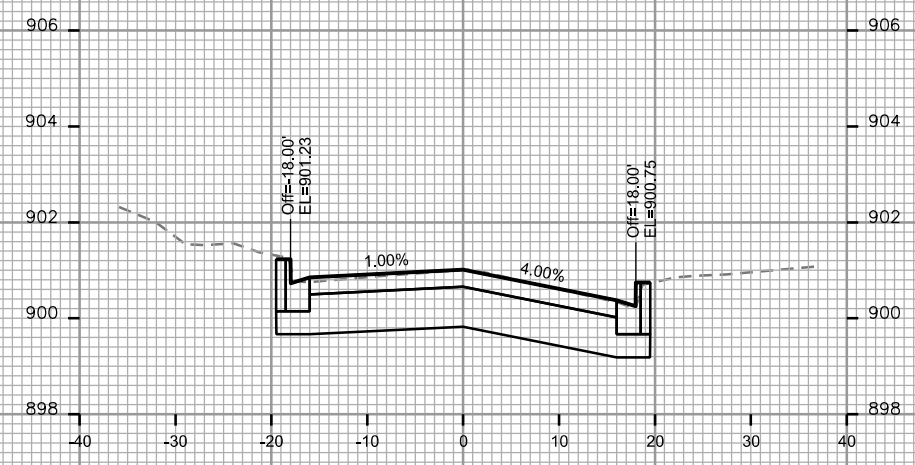
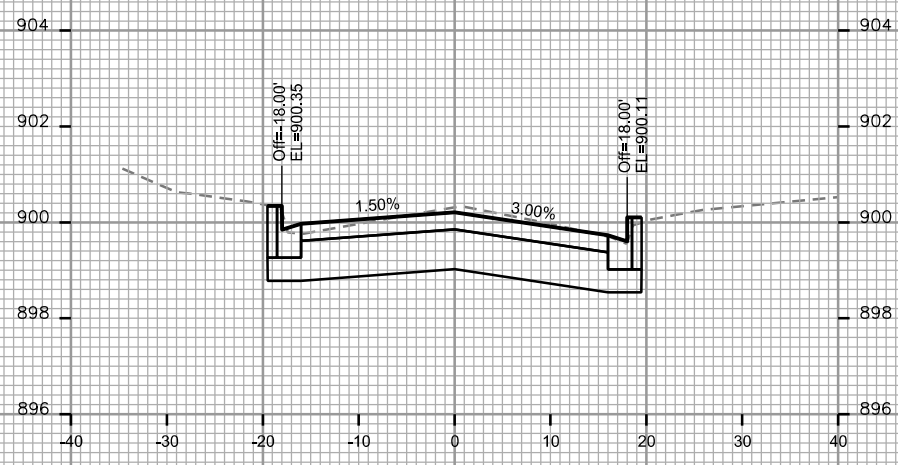
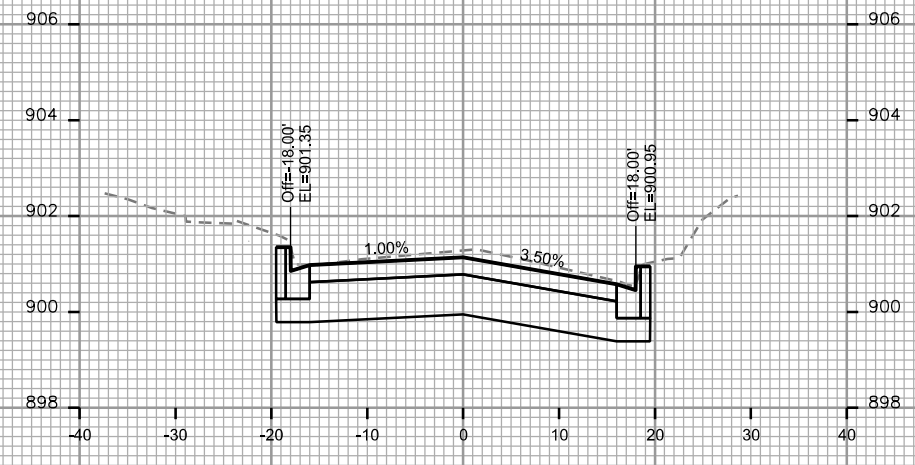
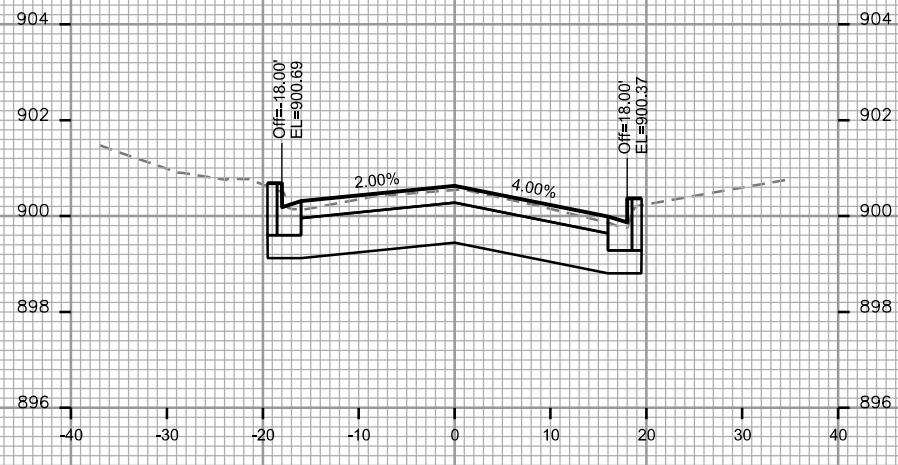
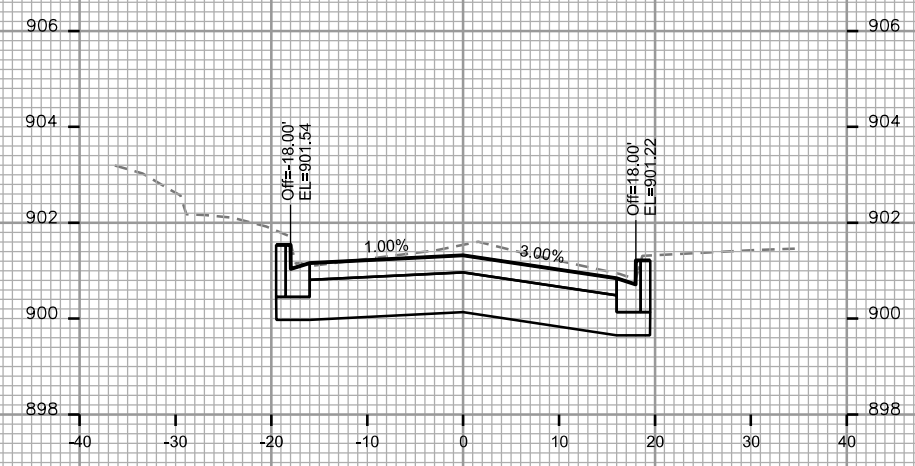
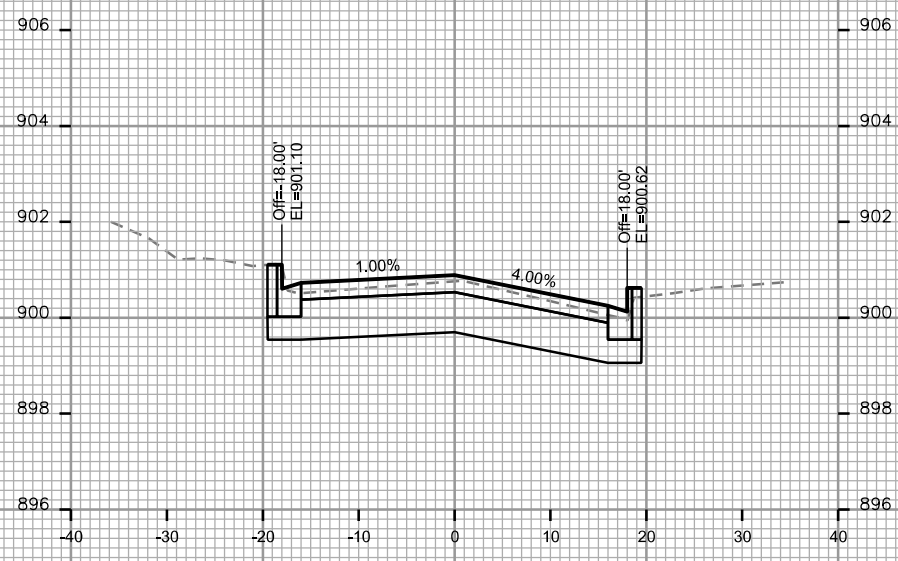


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

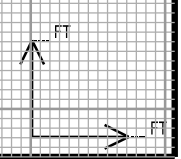
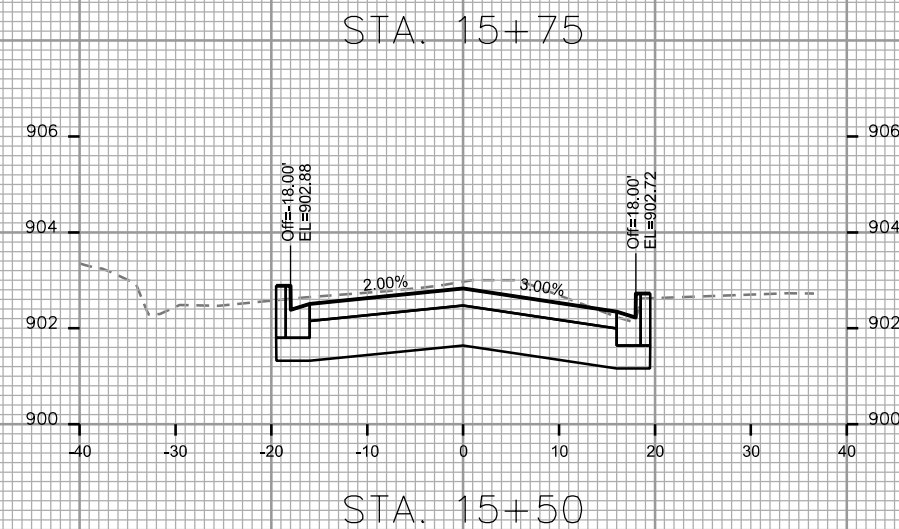
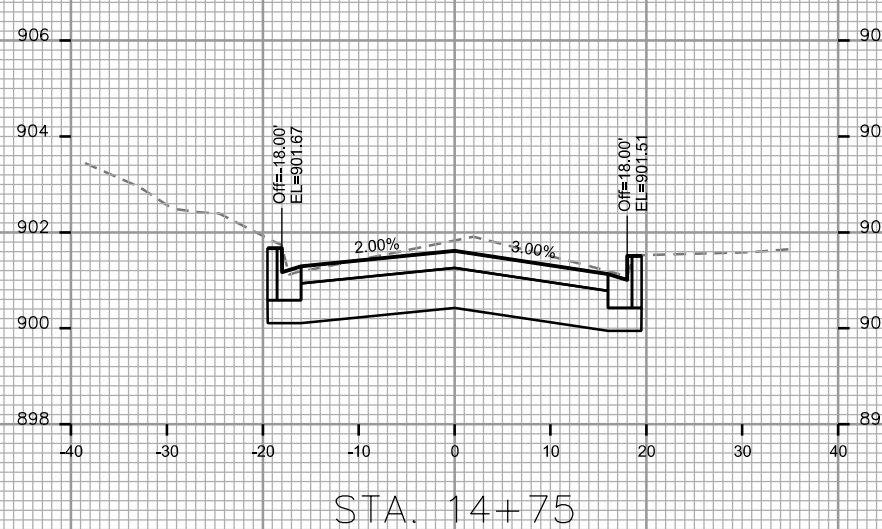
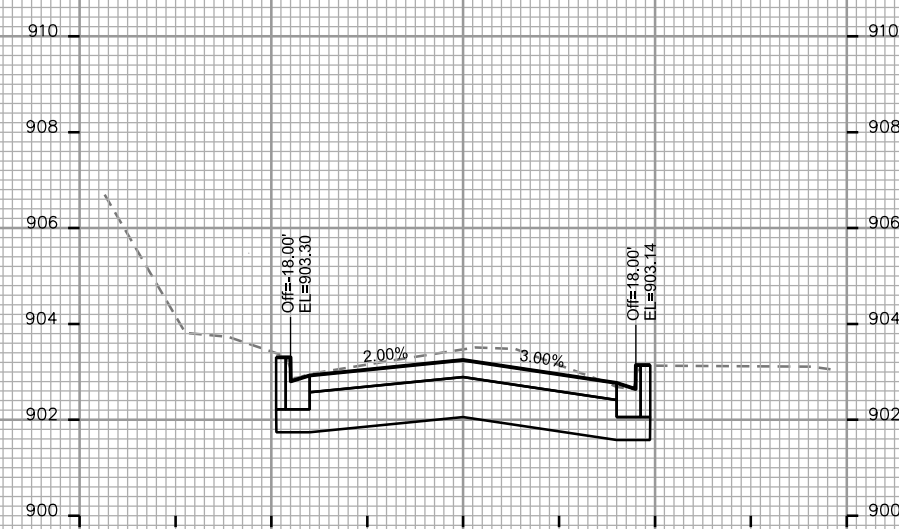
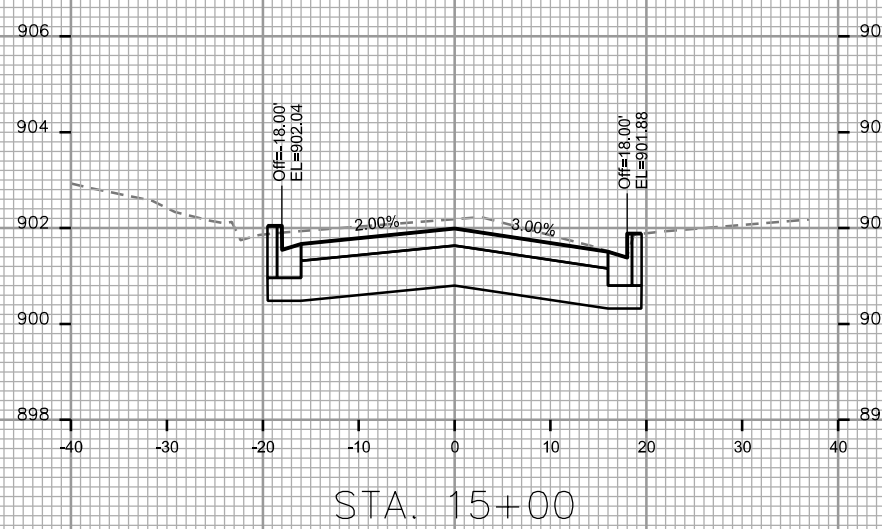
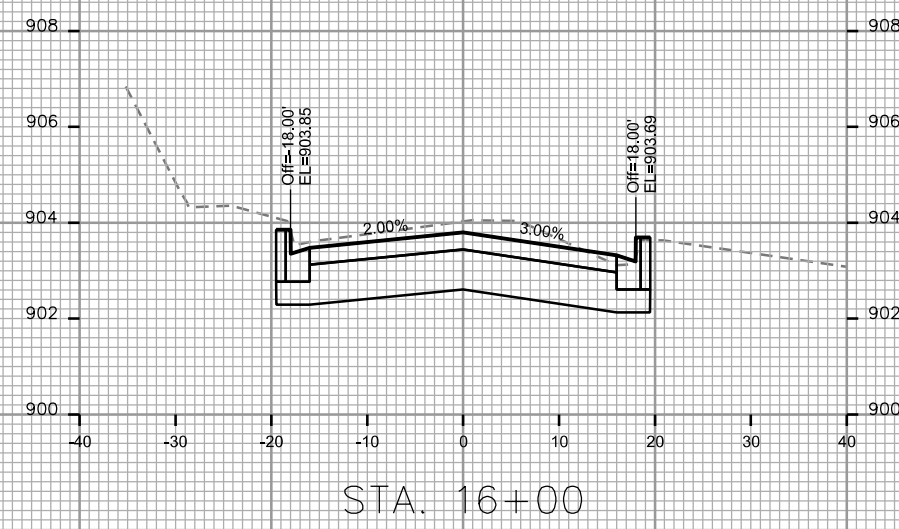
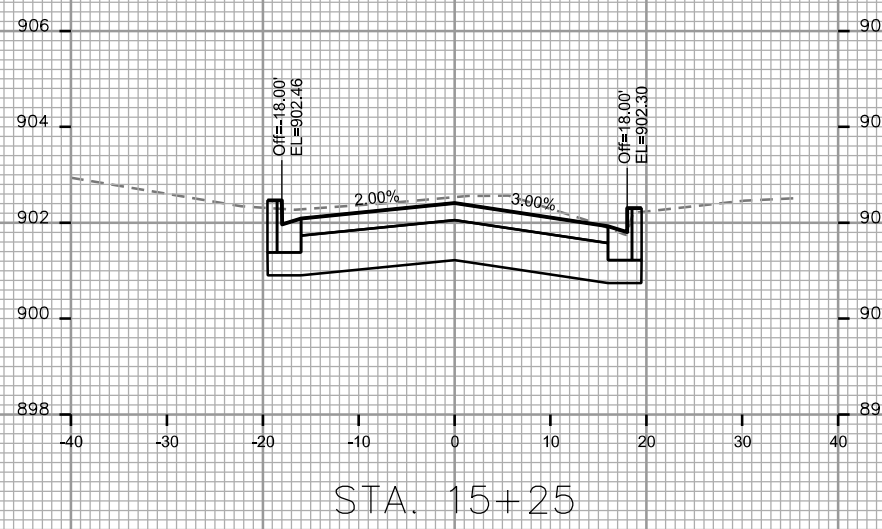


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

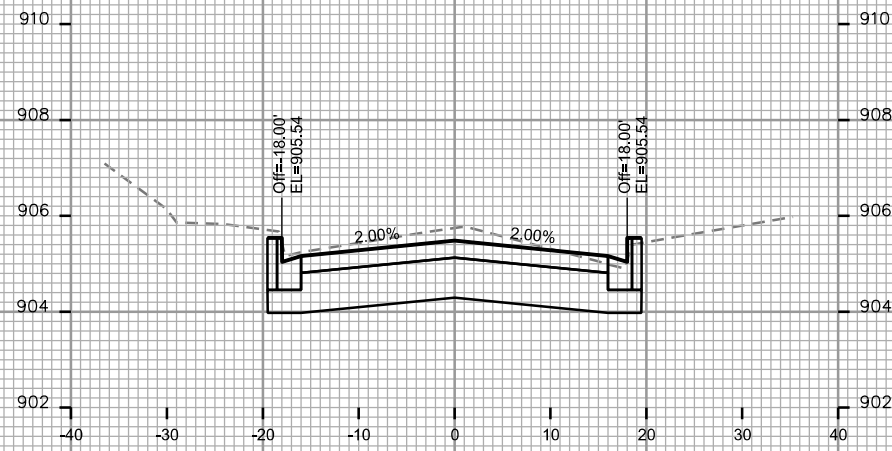
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



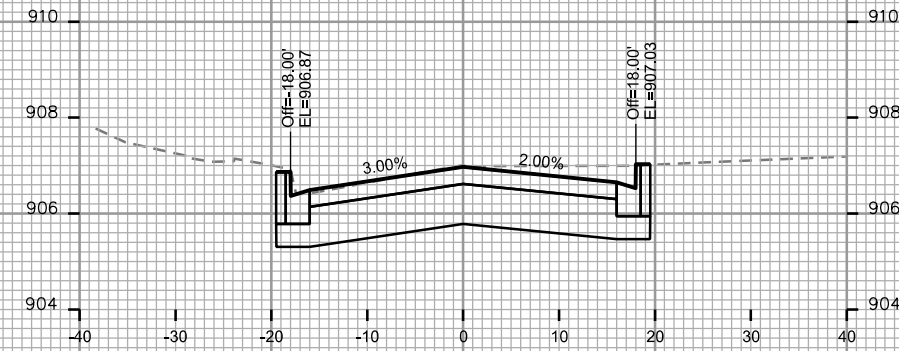
CROSS SECTIONS

N BLACKHAWK AVE

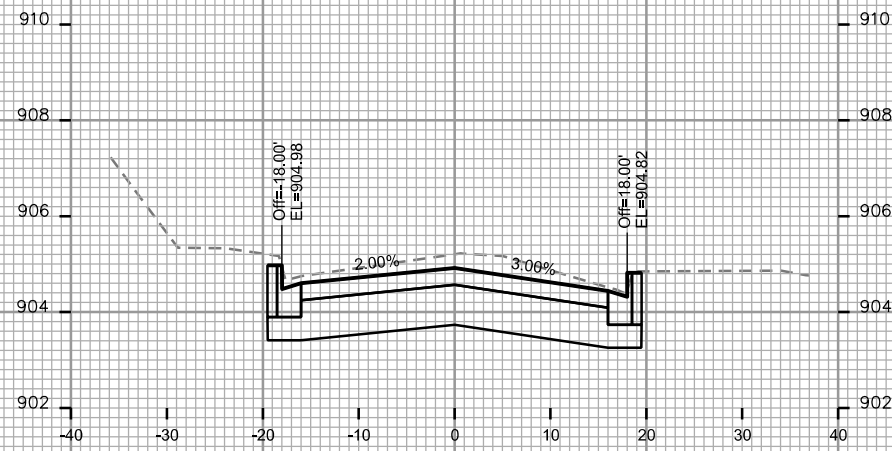
CITY OF MADISON



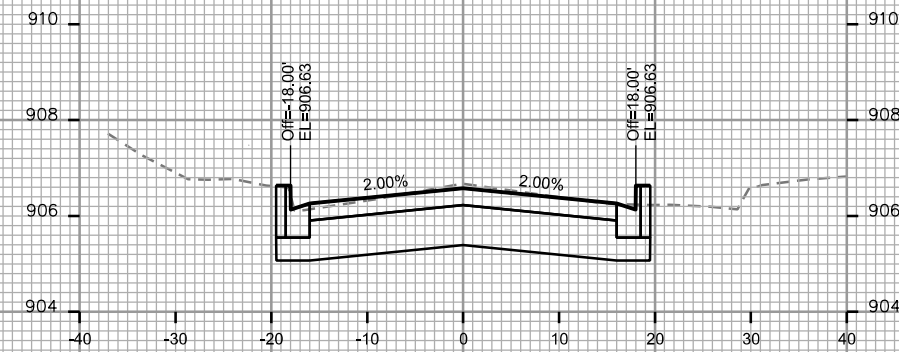
STA. 16+75



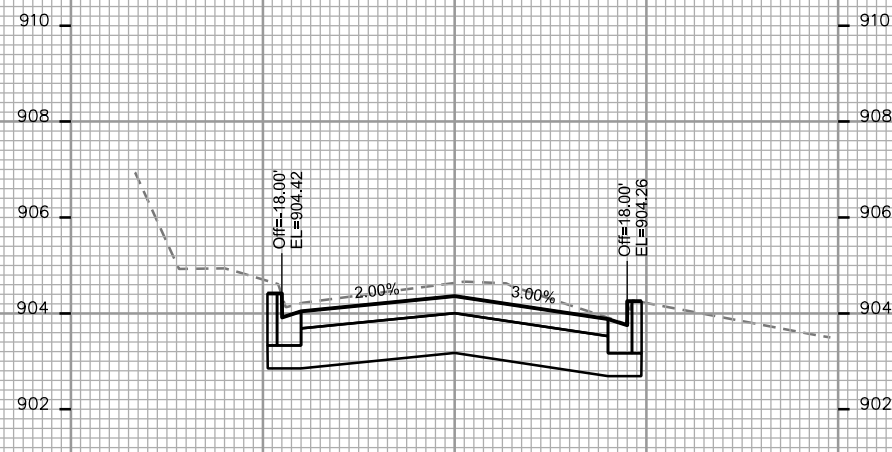
STA. 17+50



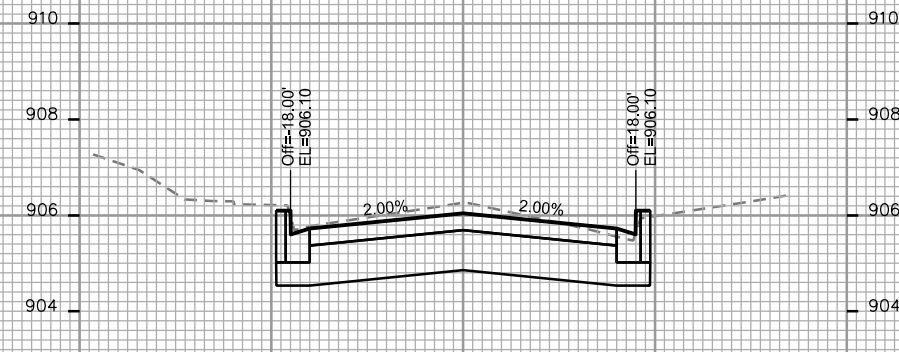
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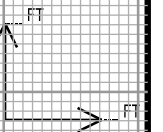
STA. 17+25



STA. 16+25



STA. 17+00



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

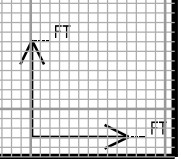
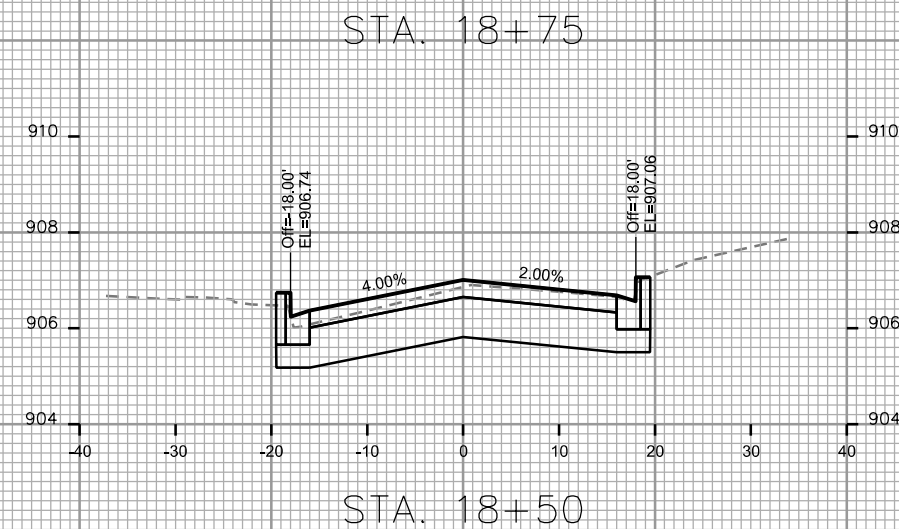
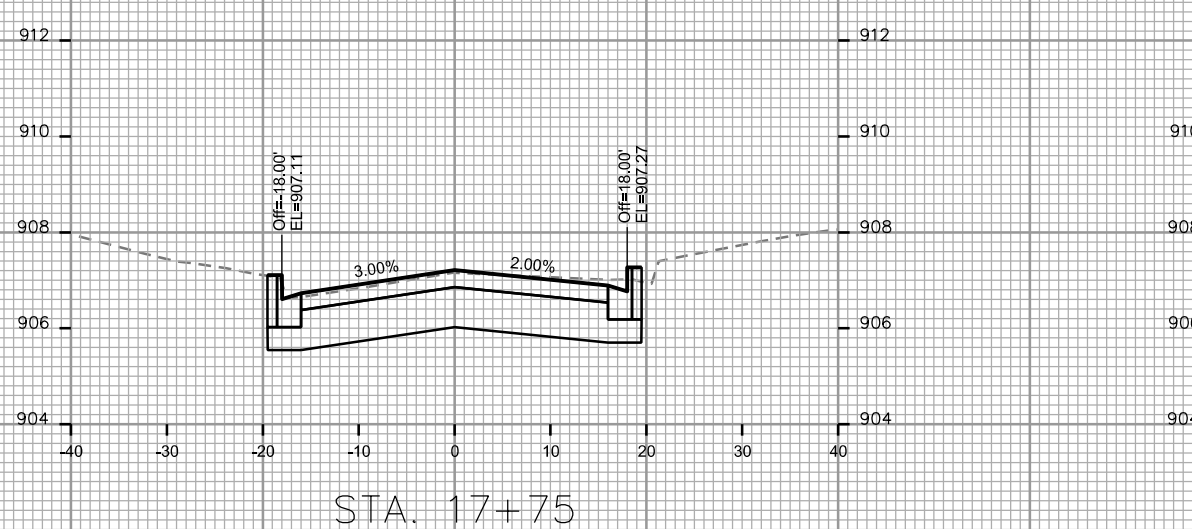
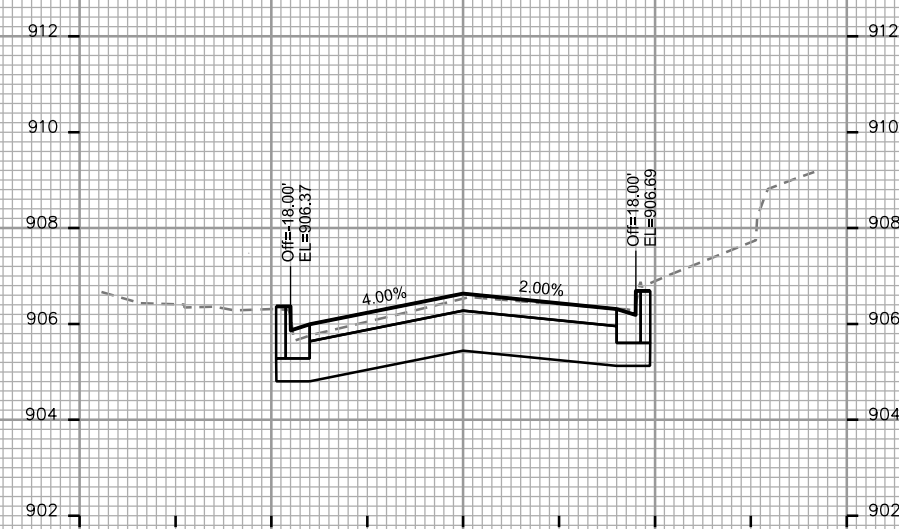
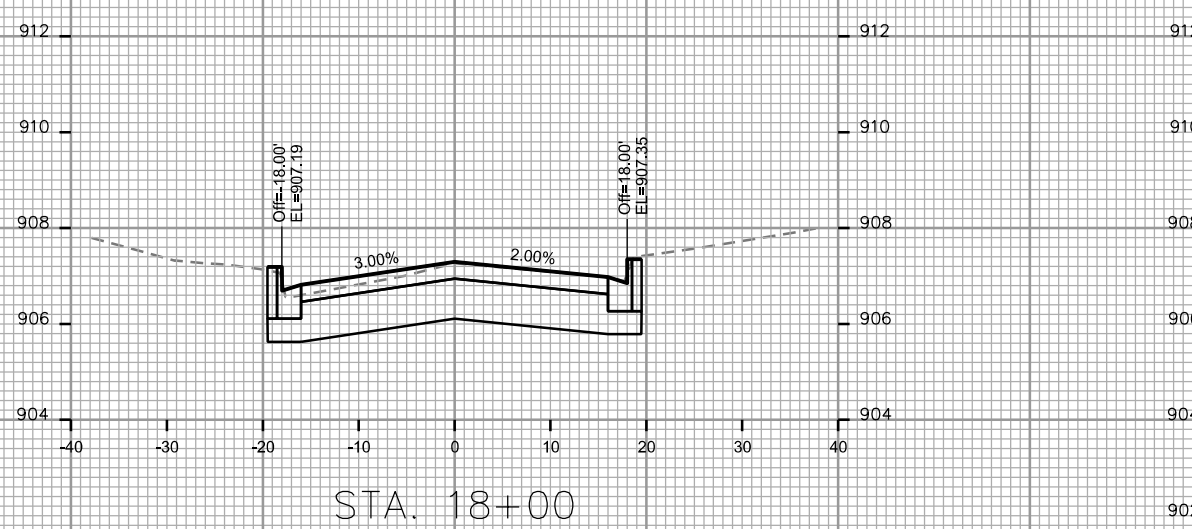
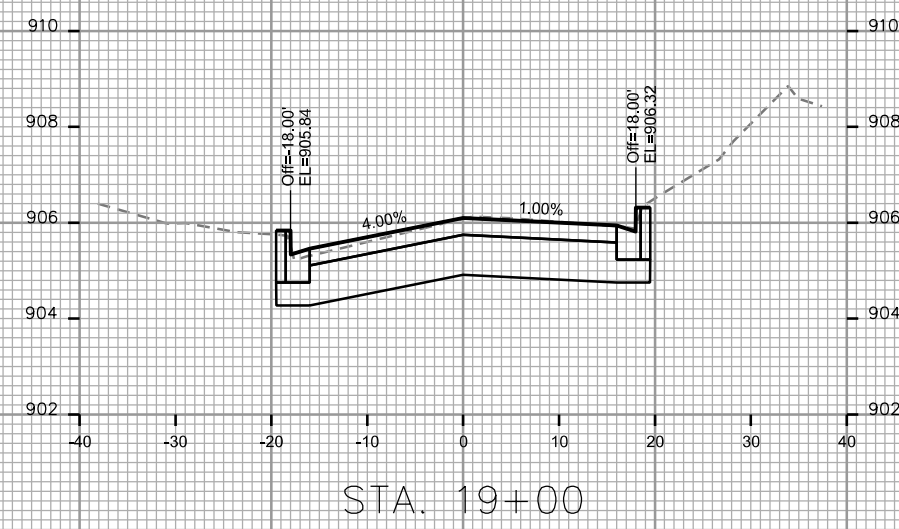
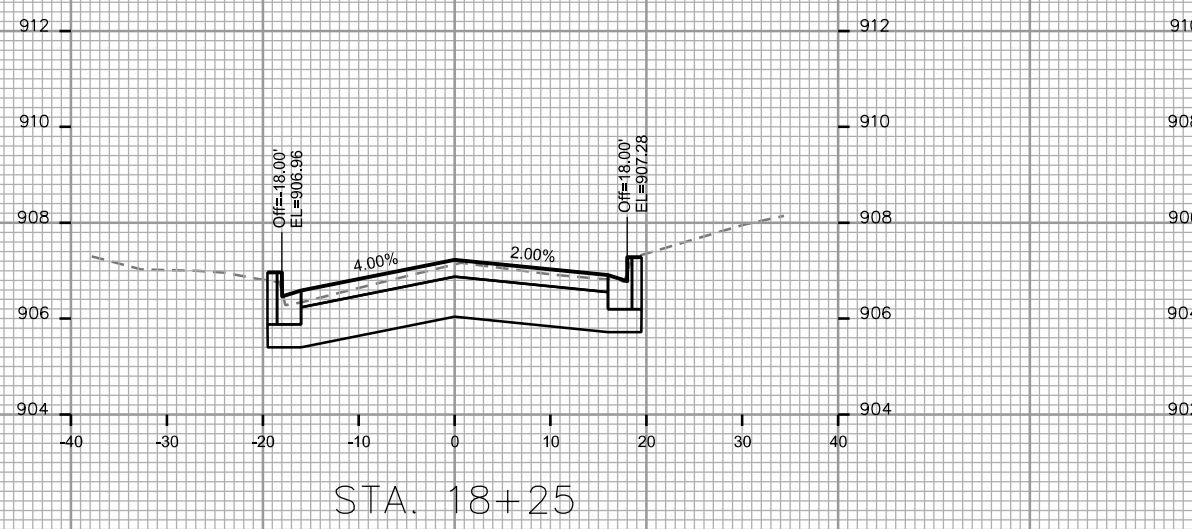
ORIGINATOR: CITY OF MADISON - STREETS DIVISION

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



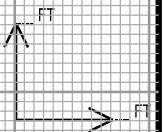
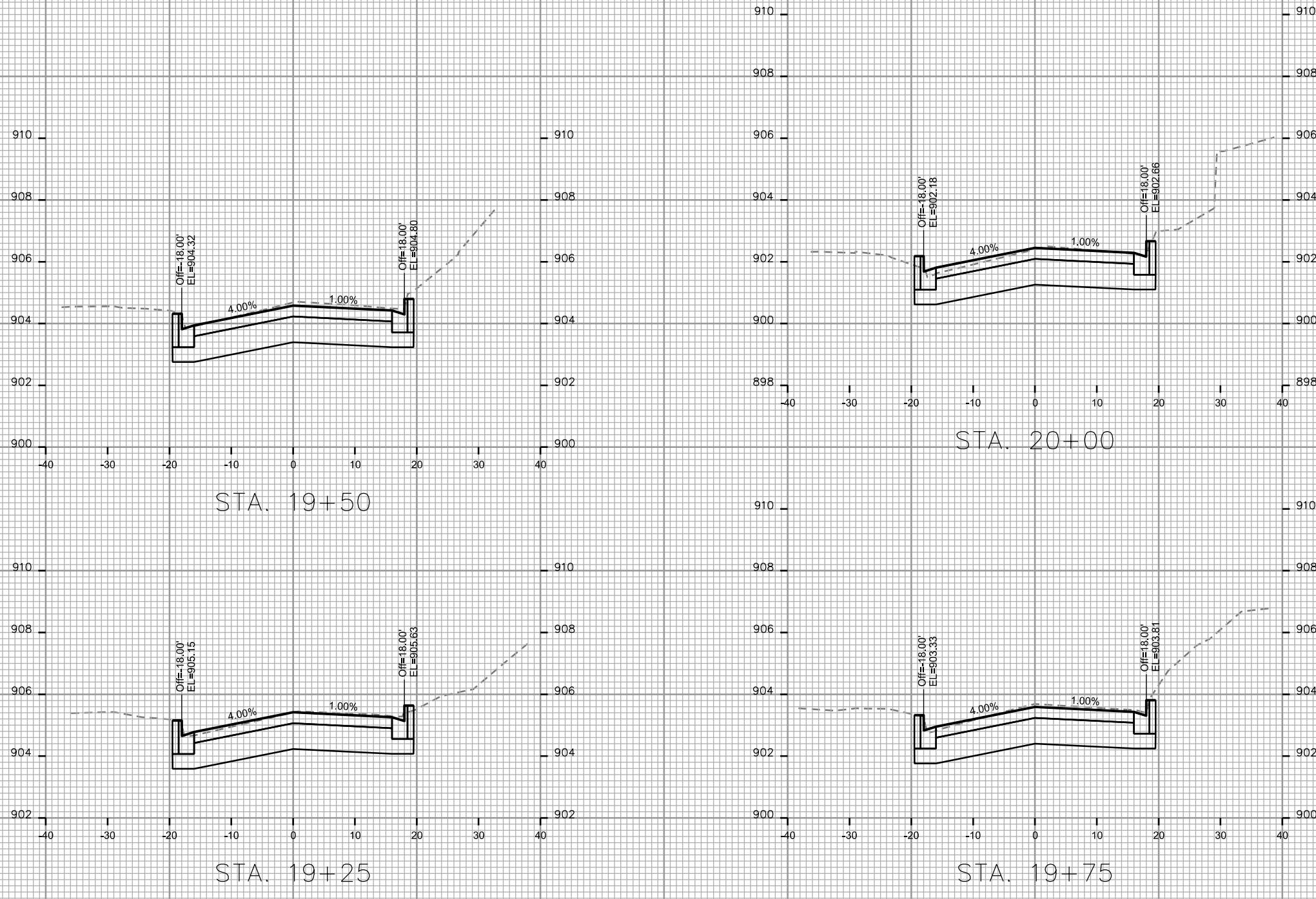
CROSS SECTIONS
N BLACKHAWK AVE CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

N BLACKHAWK AVE

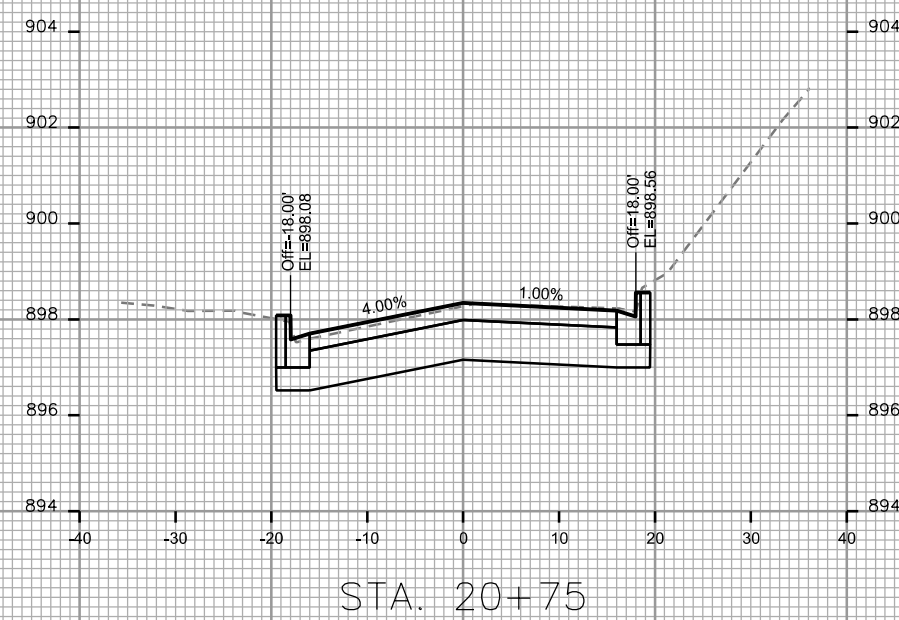
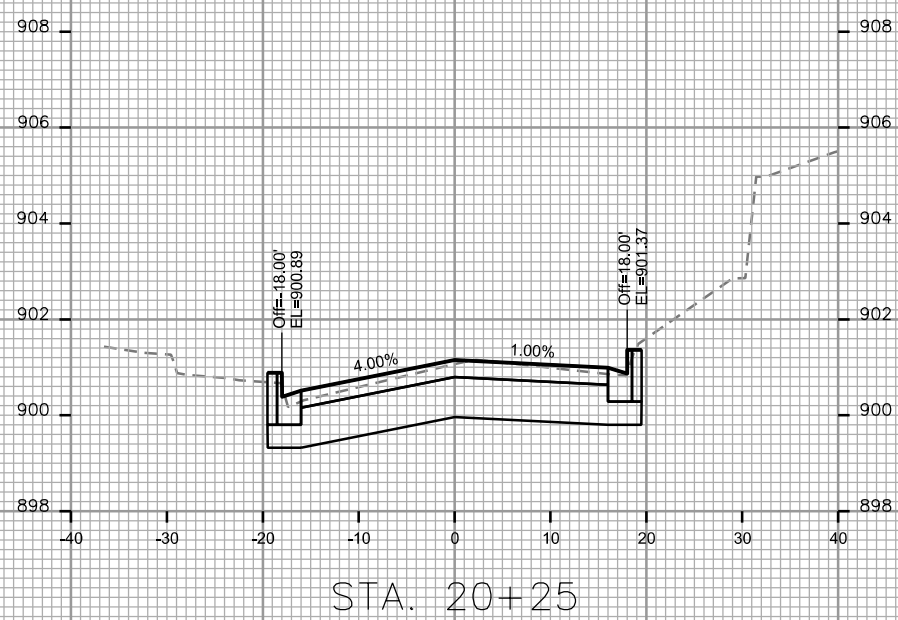
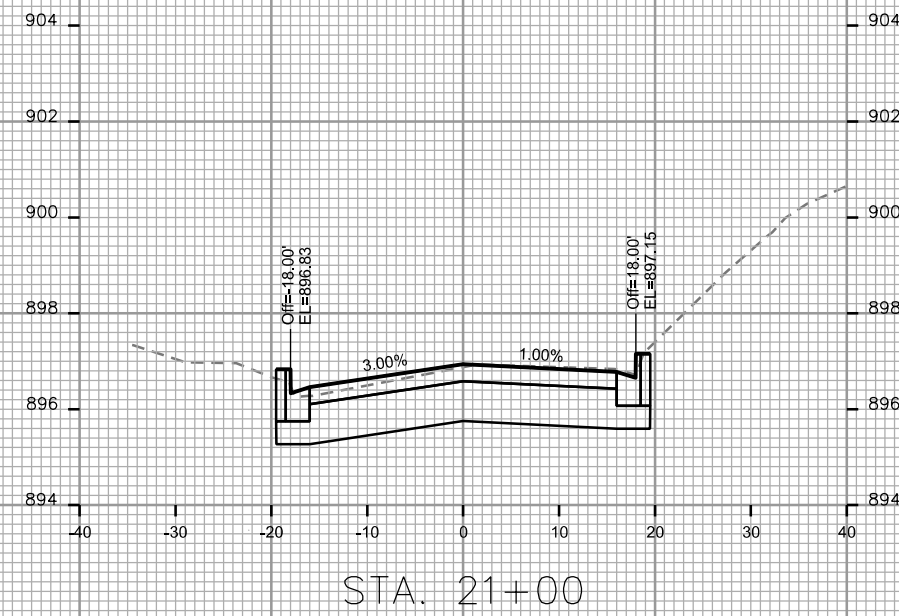
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



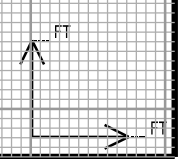
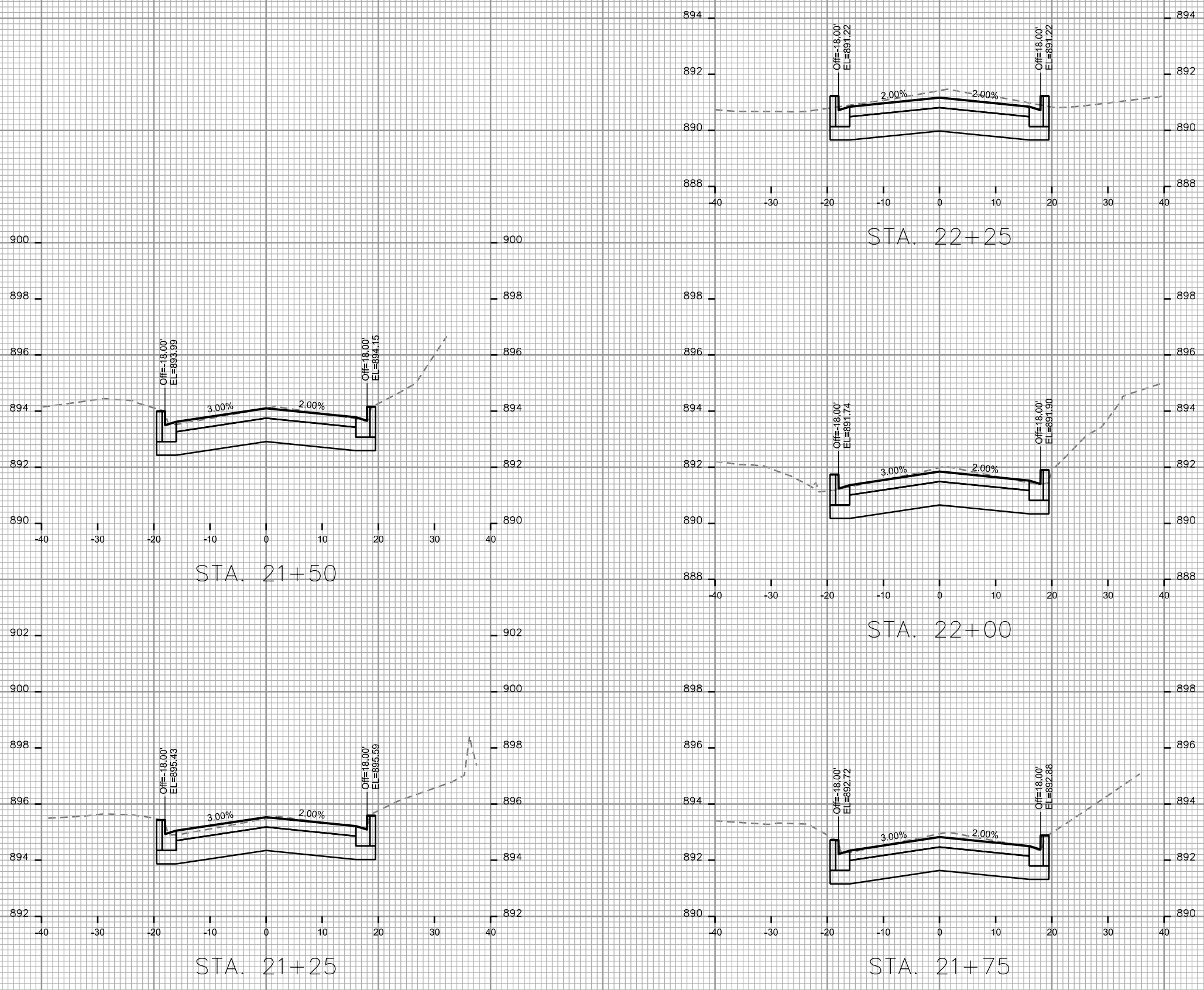
CROSS SECTIONS
N BLACKHAWK AVE CITY OF MADISON

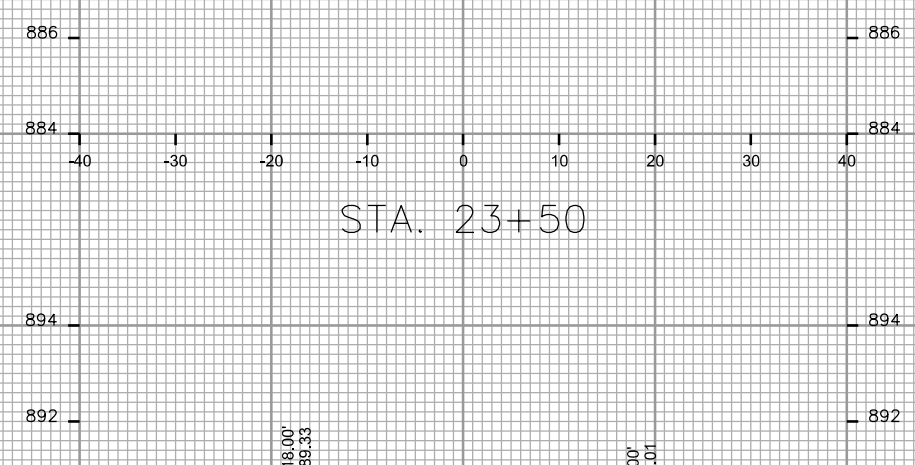
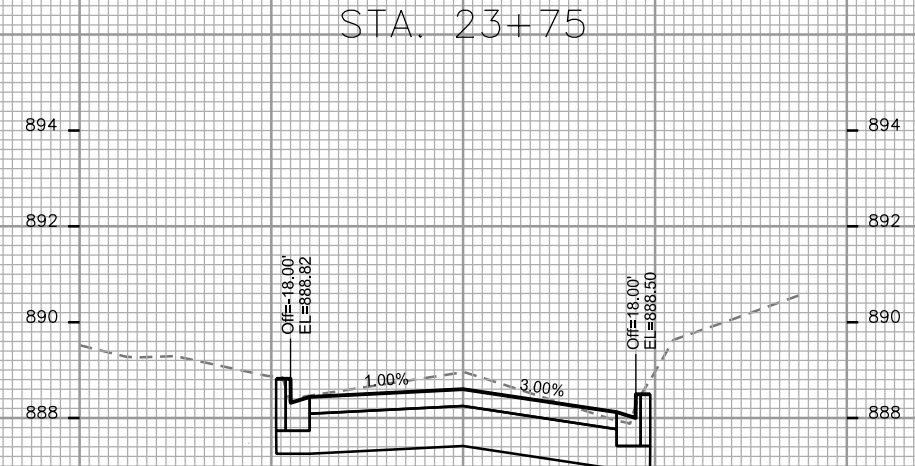
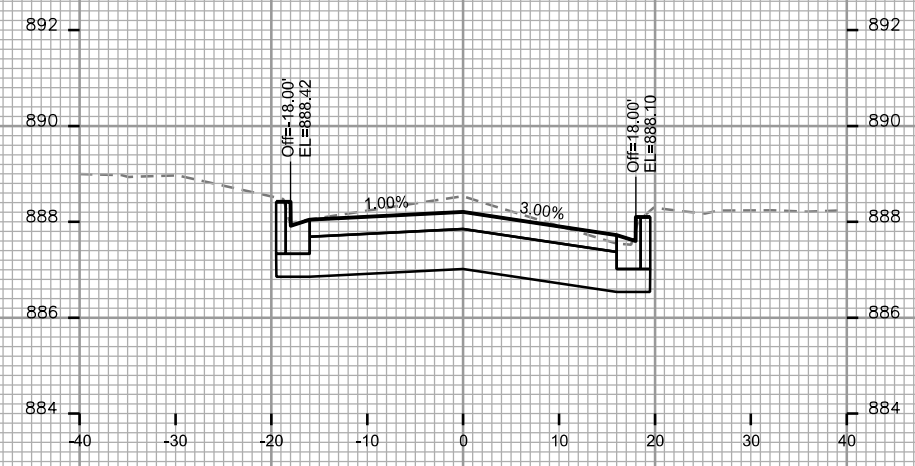
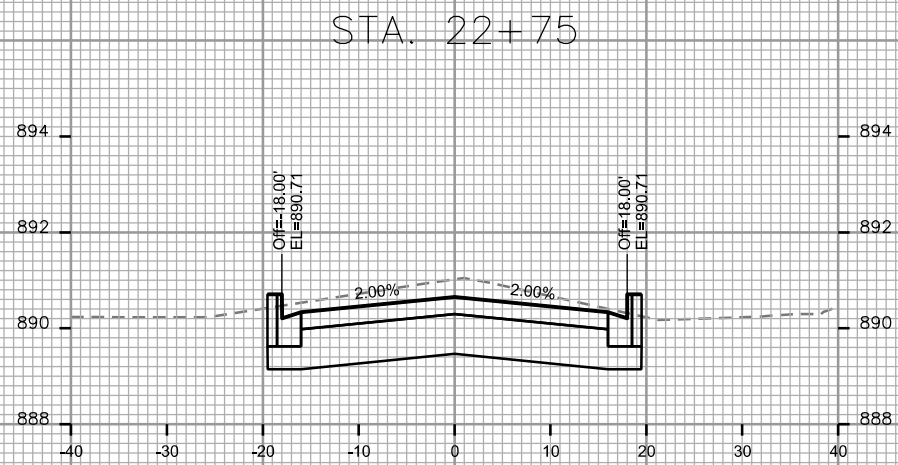
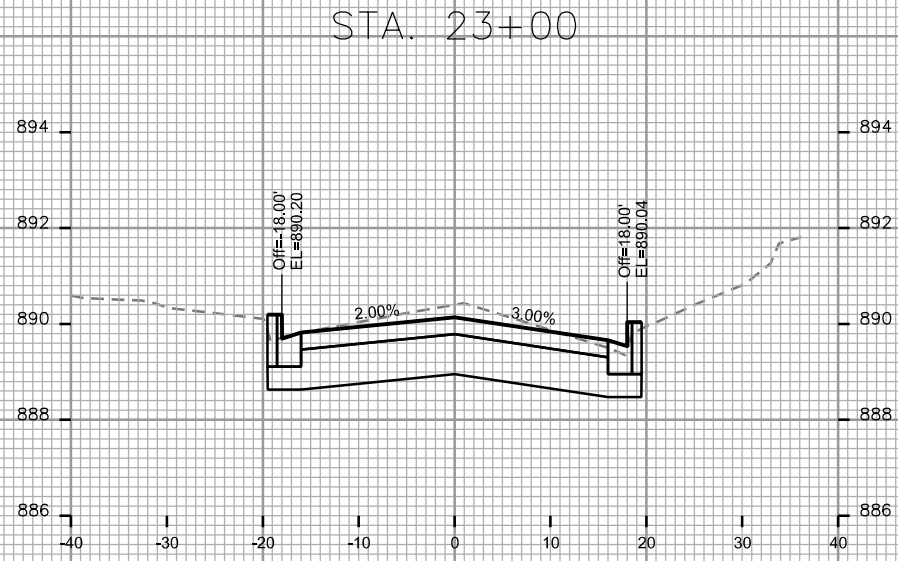
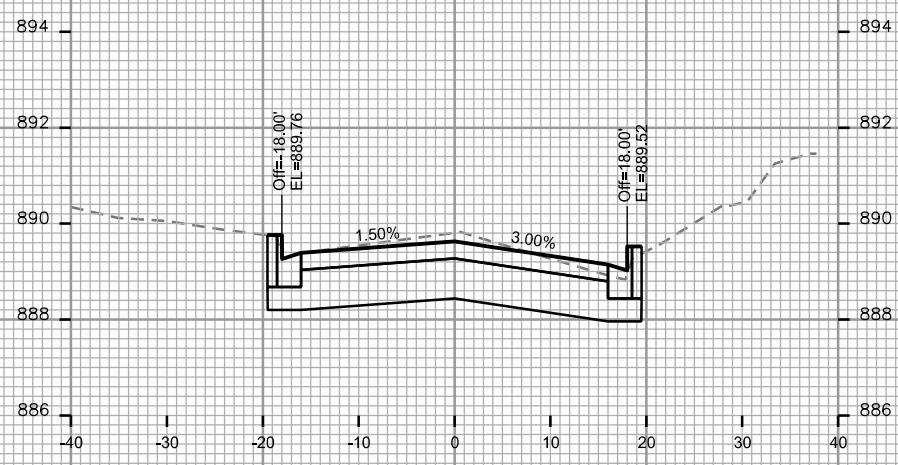
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



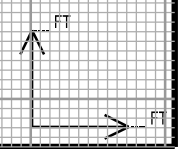


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

N BLACKHAWK AVE

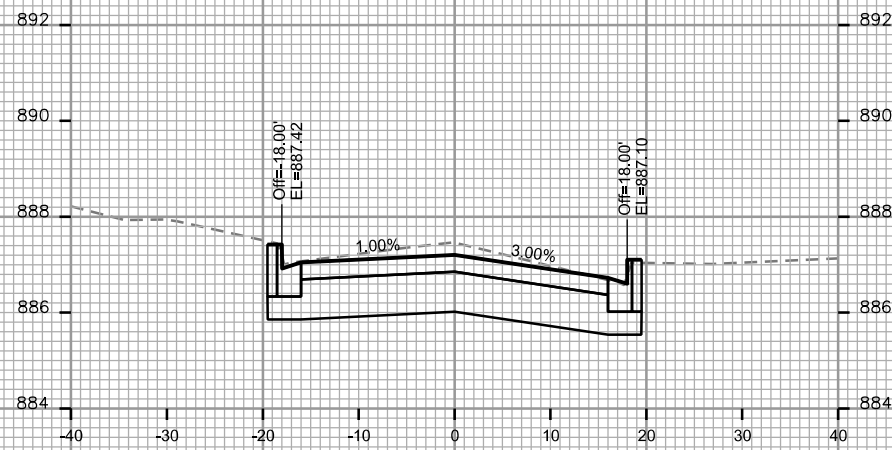
CITY OF MADISON

PLOT SCALE: _____

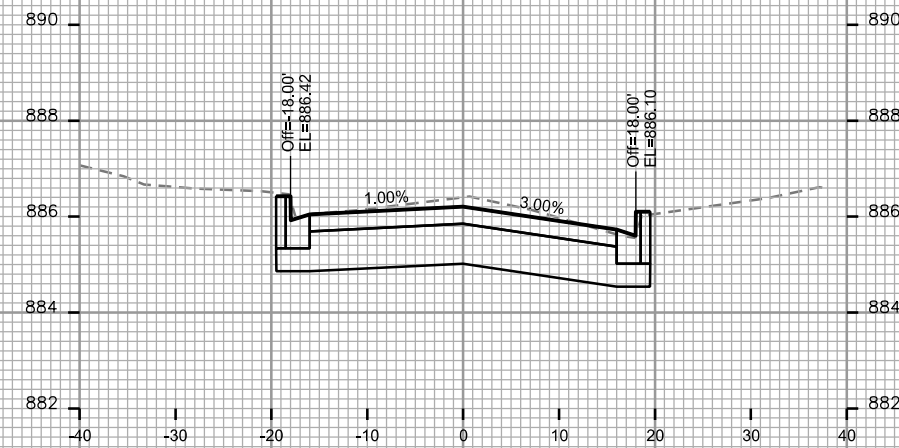
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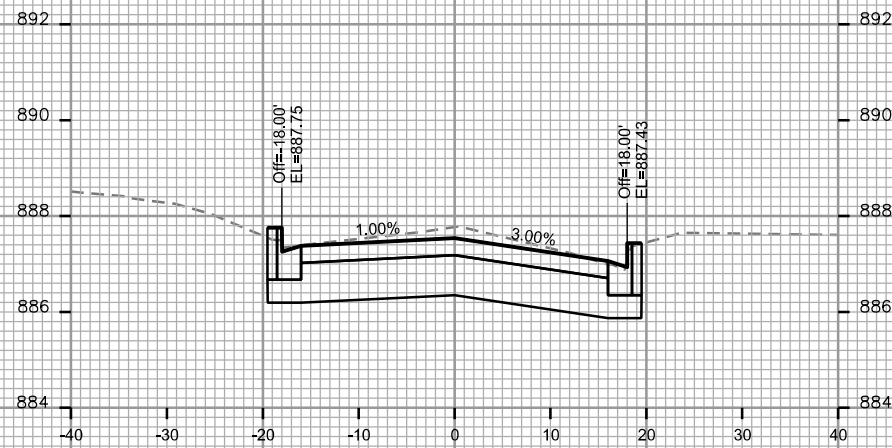
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



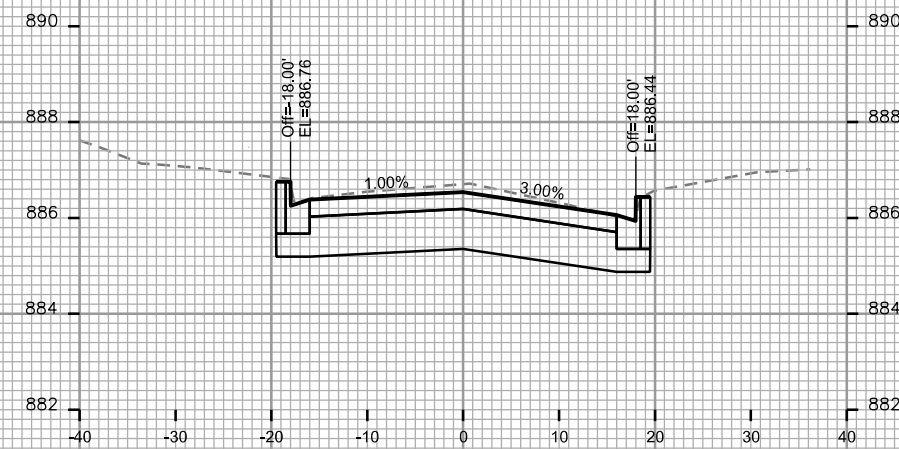
STA. 24+50



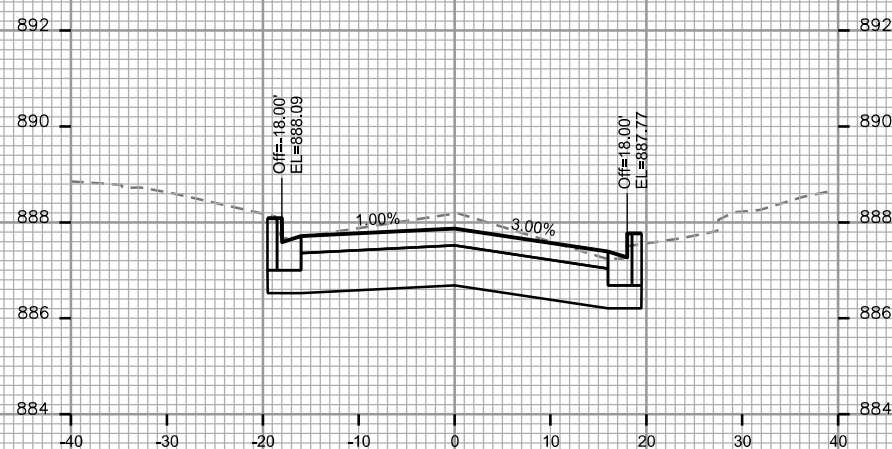
STA. 25+25



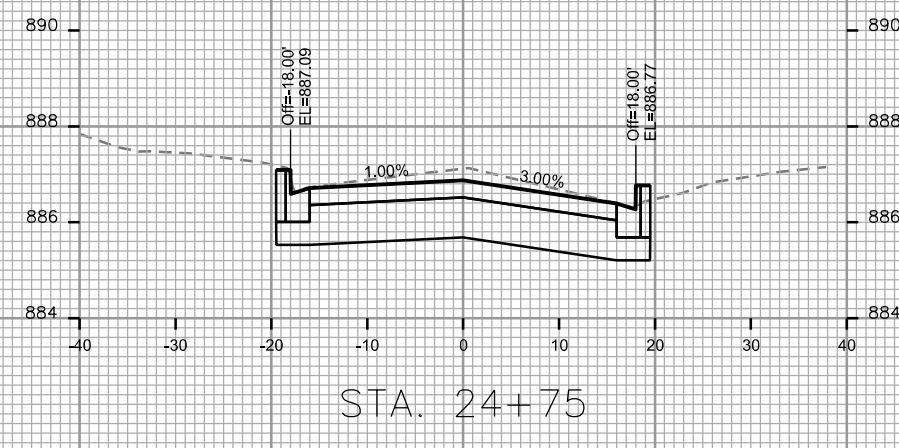
STA. 24+25



STA. 25+00



STA. 24+00



STA. 24+75



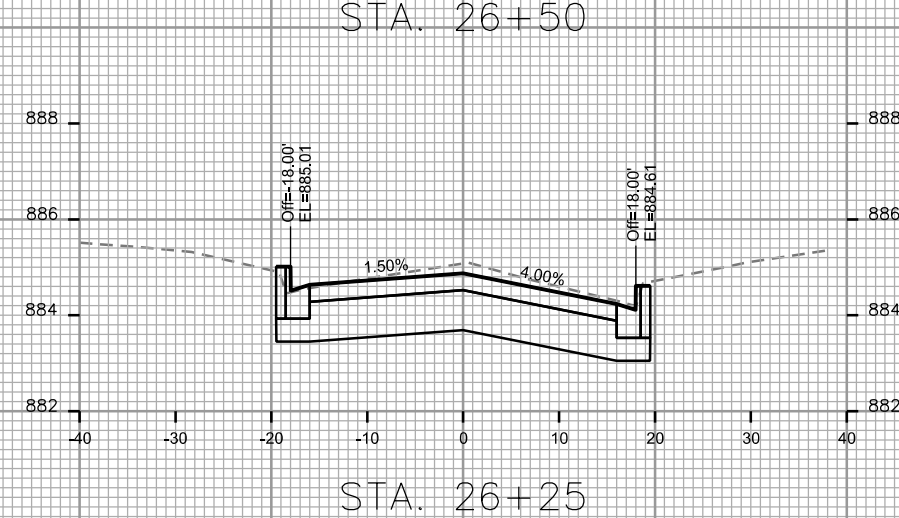
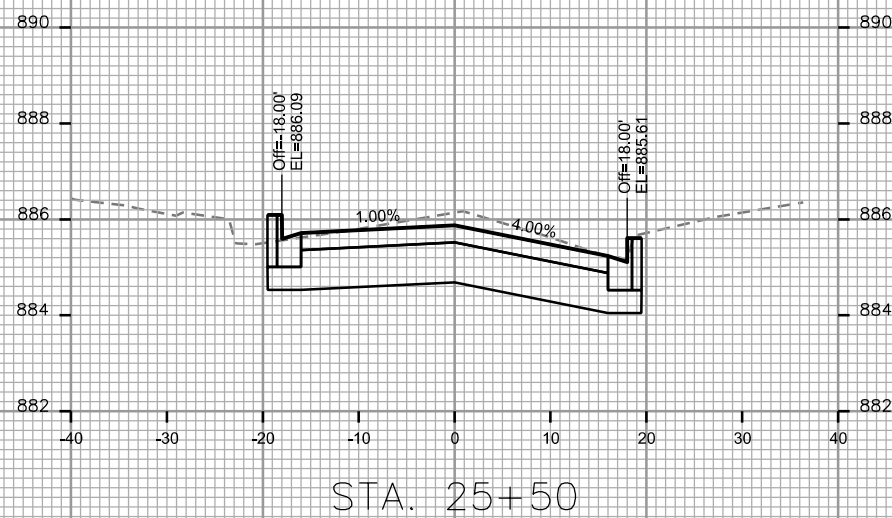
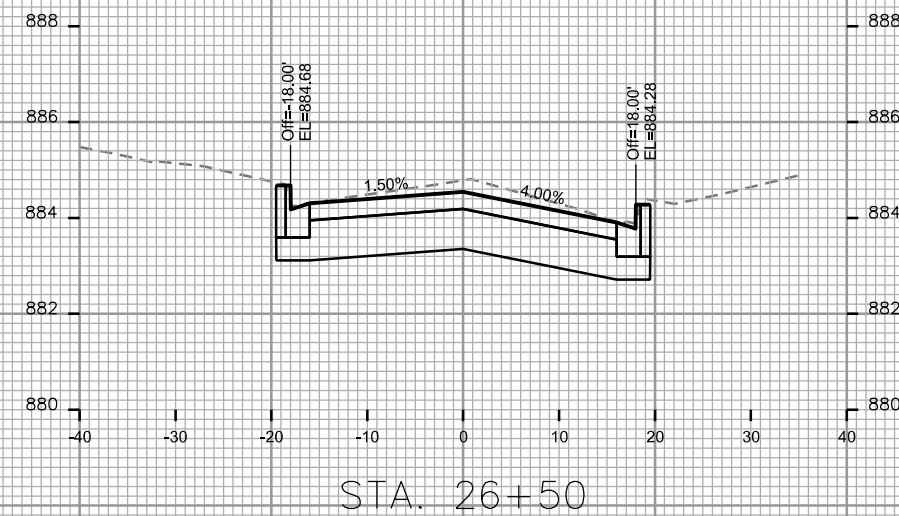
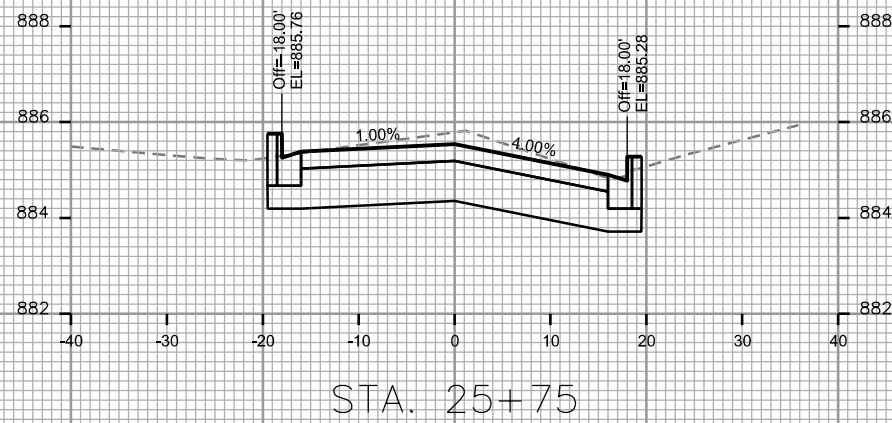
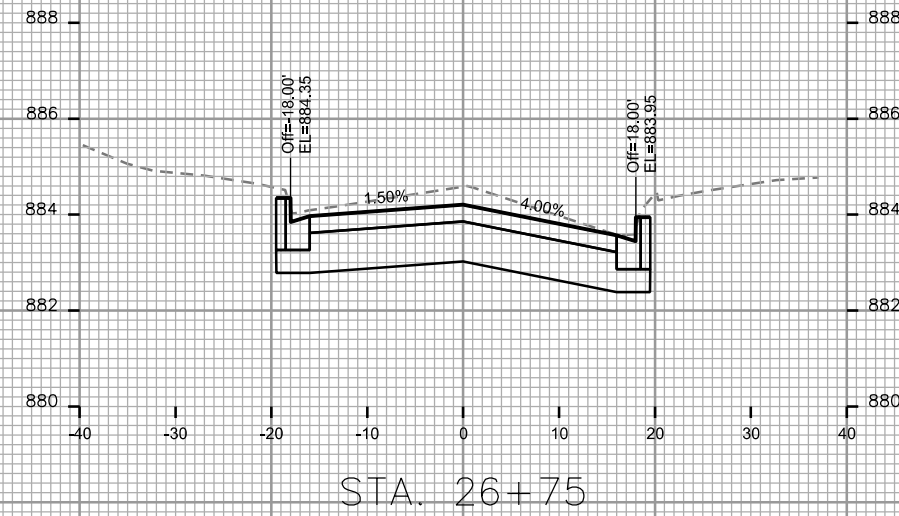
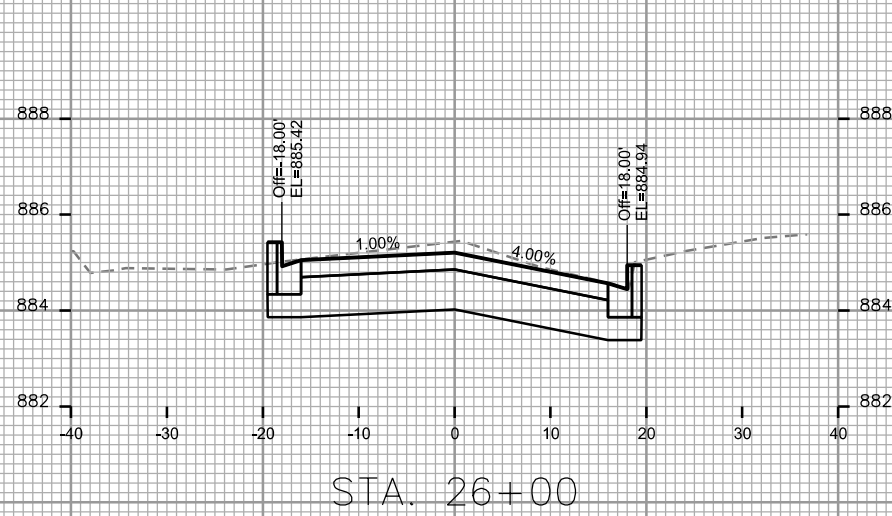
CROSS SECTIONS
N BLACKHAWK AVE CITY OF MADISON

PLOT SCALE: _____

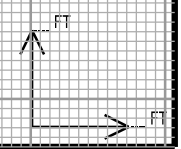
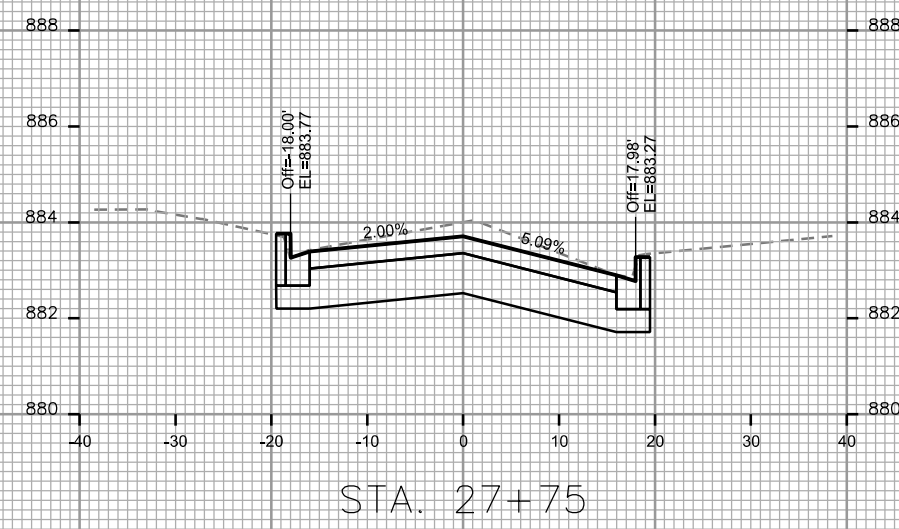
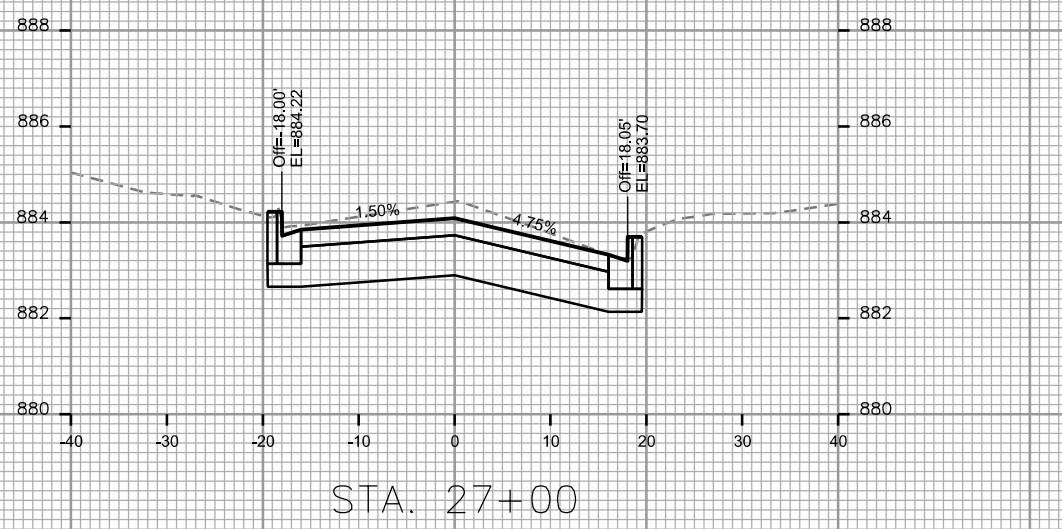
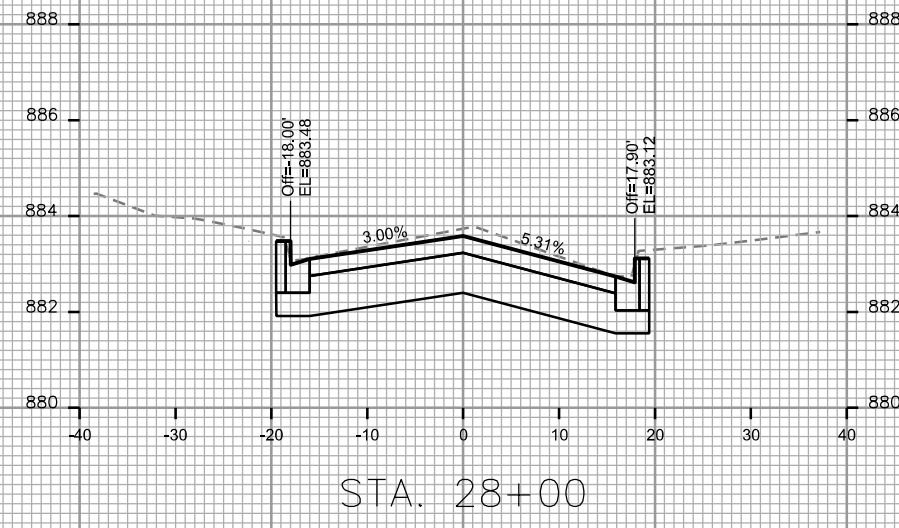
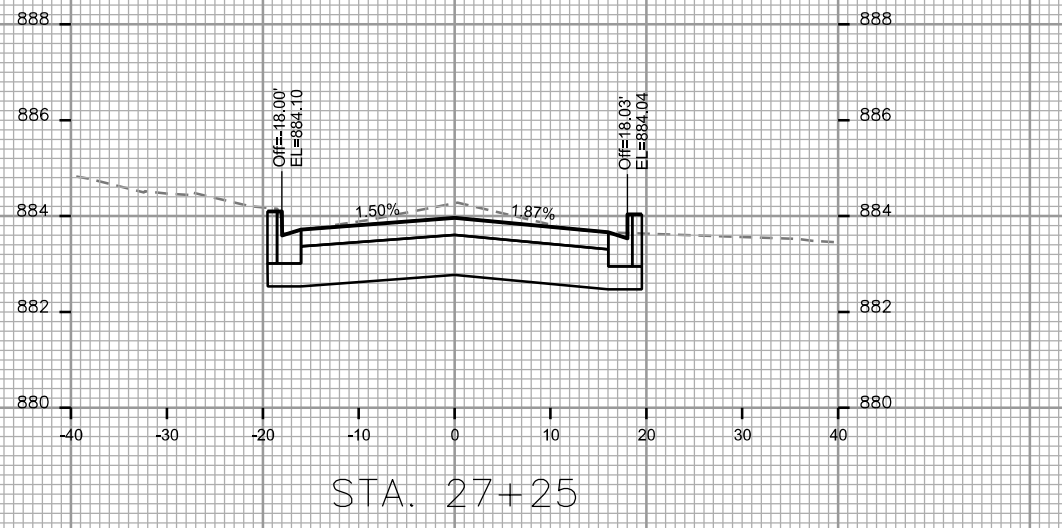
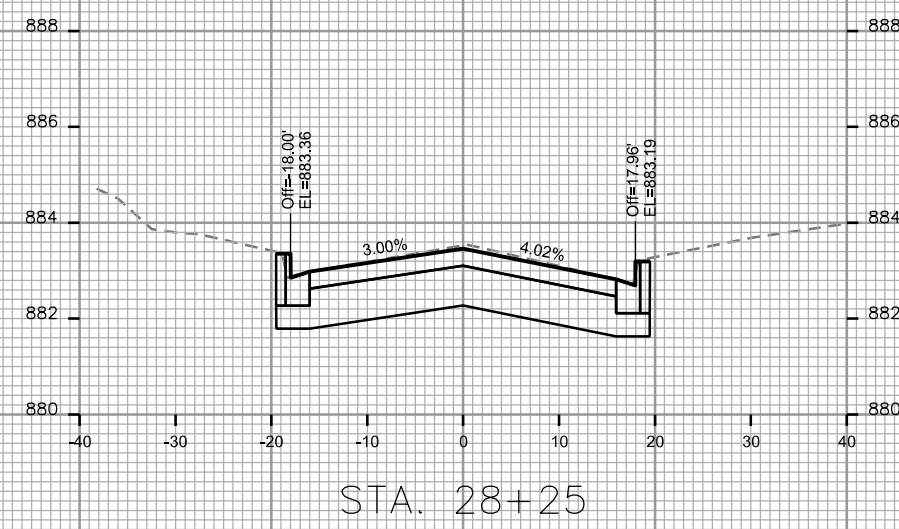
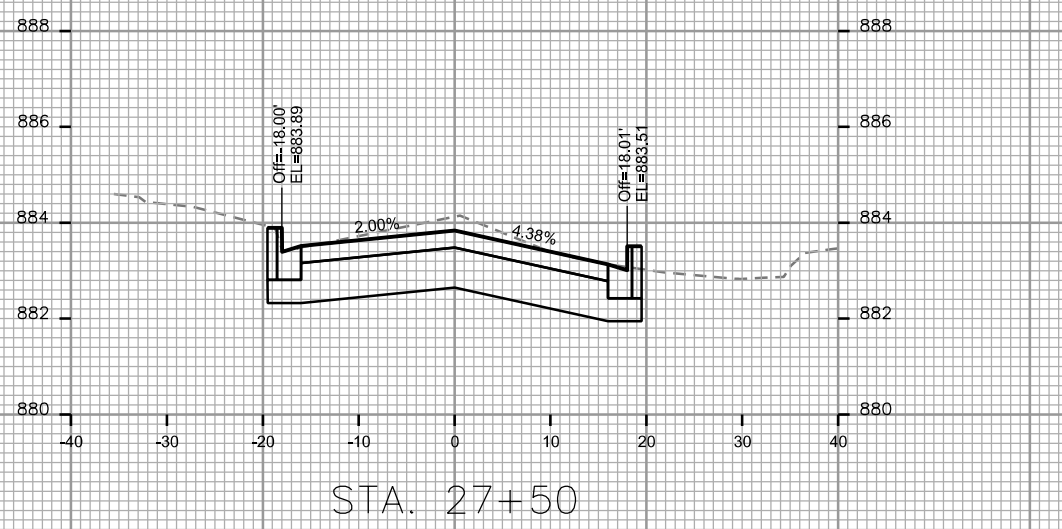
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS
 N BLACKHAWK AVE CITY OF MADISON



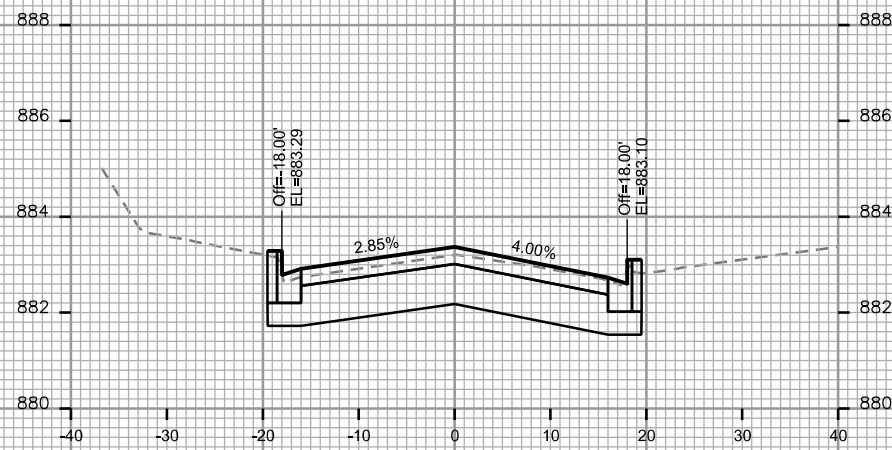
PLOT SCALE: _____

PLOT NAME: _____

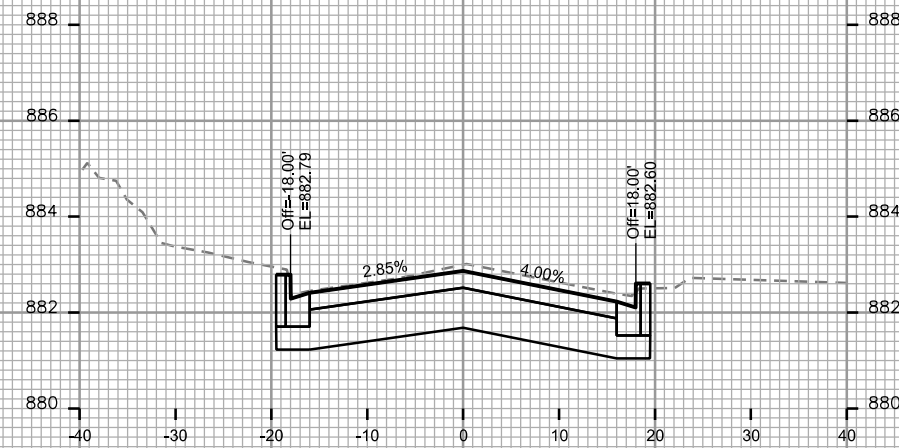
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

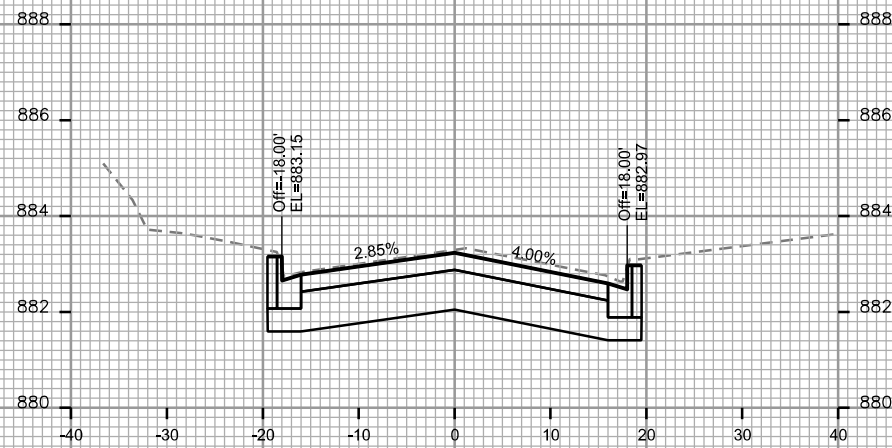
CROSS SECTIONS
N BLACKHAWK AVE CITY OF MADISON



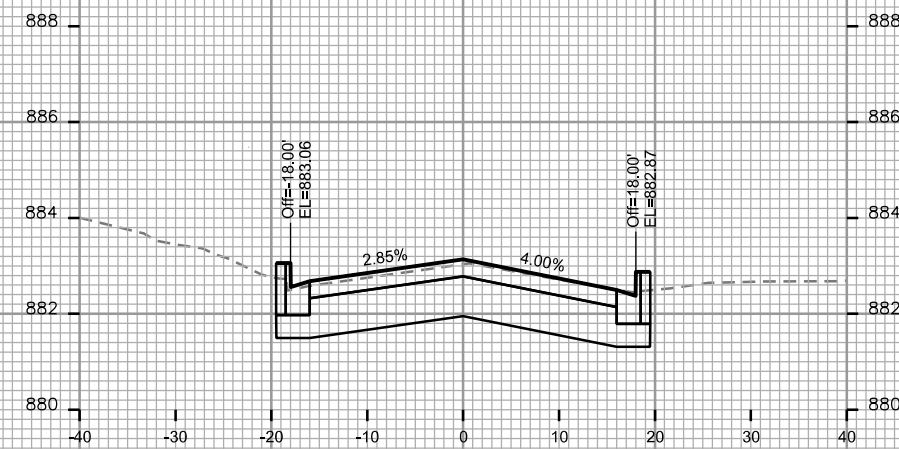
STA. 29+00



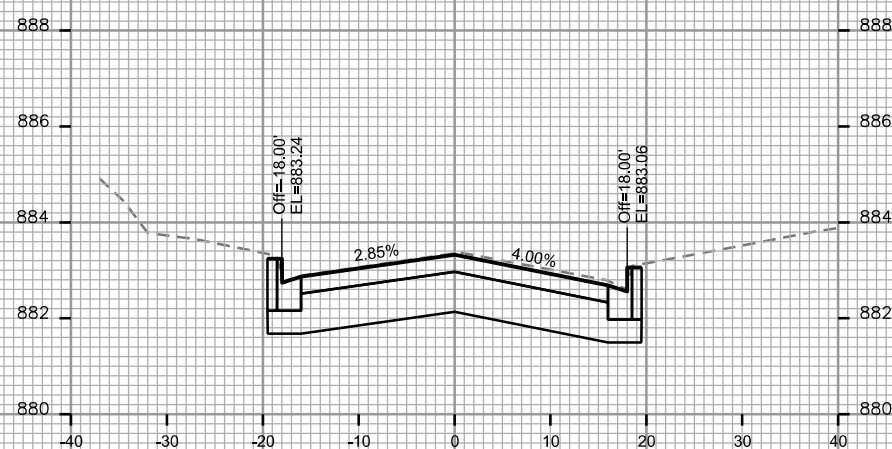
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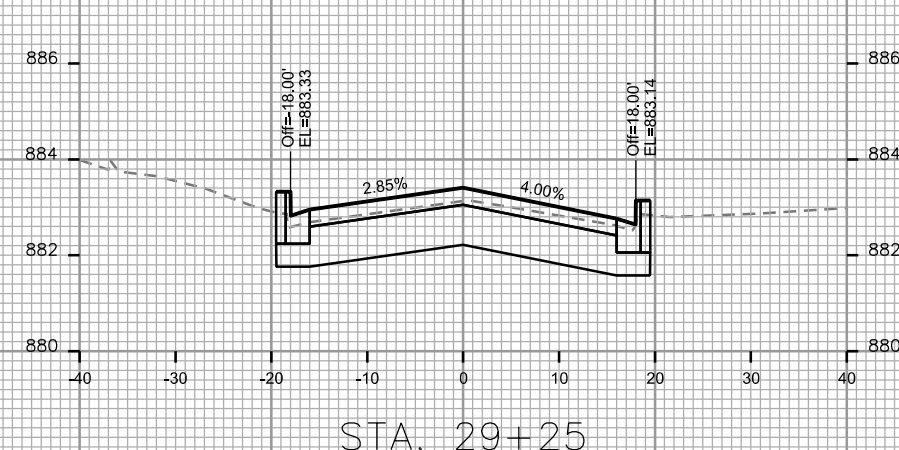
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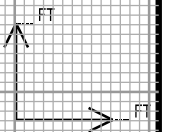
STA. 29+50



STA. 28+50



STA. 29+25



PLOT SCALE: _____

PLOT NAME: _____

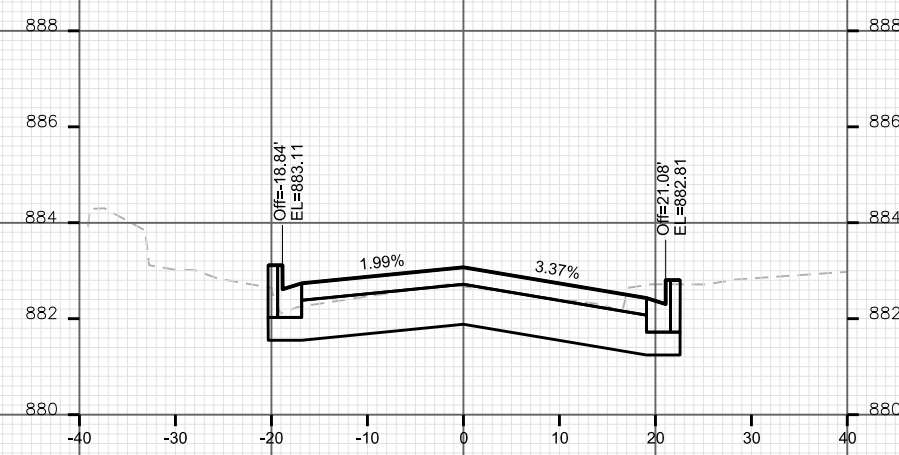
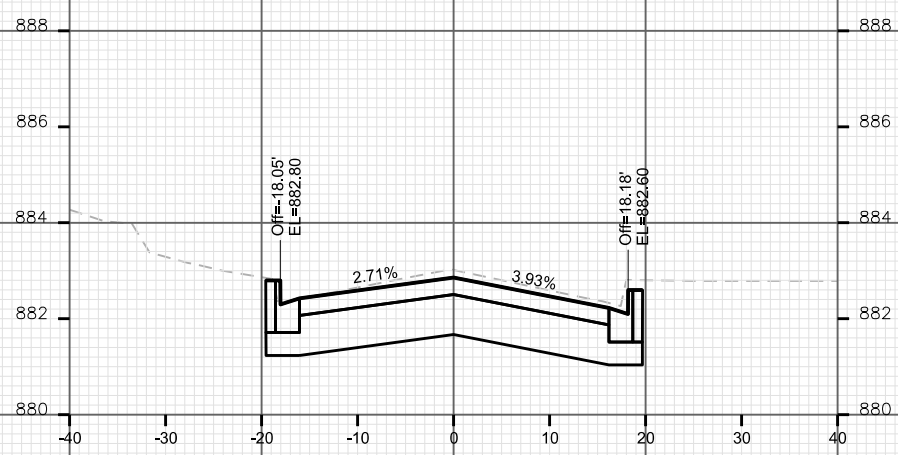
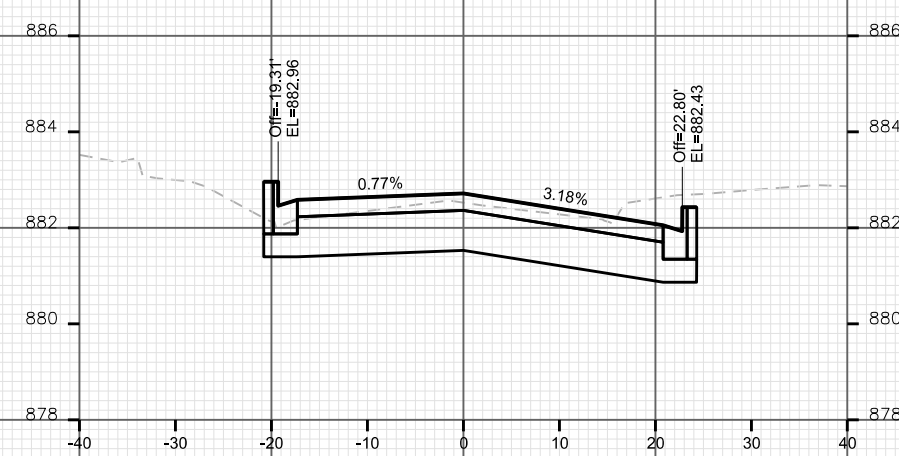
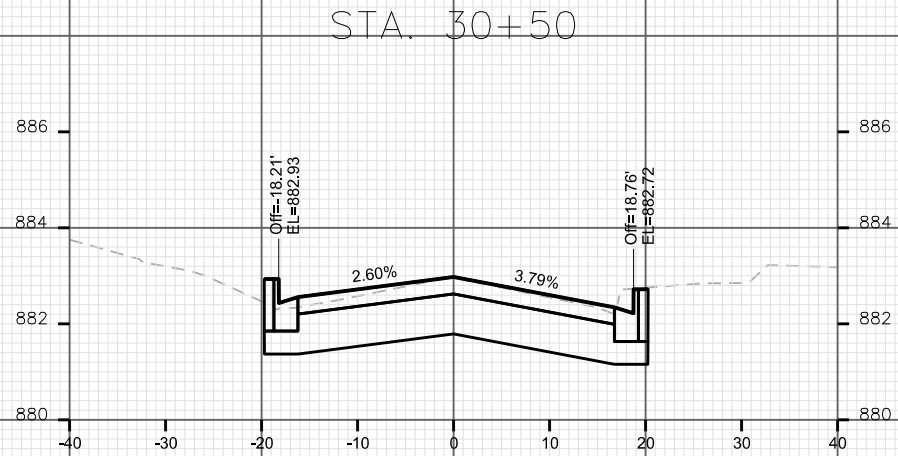
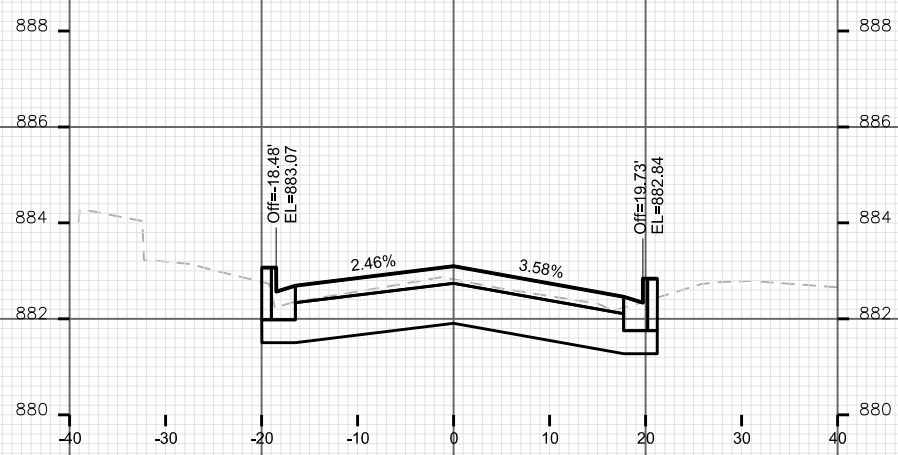
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS
N BLACKHAWK AVE CITY OF MADISON

REV. 2-28-19 CWD

REV. CWD 2-28-19:
REVISION FOR
ADDED TURN LANE



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