

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

INDEX OF SHEETS

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SHEET NO. D1	DETAILS
SHEET NO. RG1-RG2	RAIN GARDEN DETAILS
SHEET NO. EC1-EC4	EROSION CONTROL PLANS
SHEET NO. P1-P4	STREET PLAN & PROFILE
SHEET NO. U1-U4	UTILITY PLAN & PROFILE
SHEET NO. U5	SANITARY SEWER SCHEDULE
SHEET NO. U6	STORM SEWER SCHEDULE
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SHEET NO. W5	WATER MAIN ESTIMATE OF MATERIALS
SHEET NO. W6	WATER IMPACT PLAN
SHEET NO. X1-X9	STREET CROSS SECTIONS

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 LOCATION

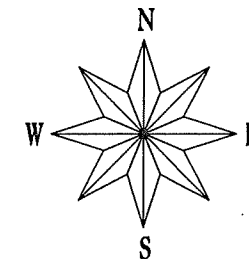
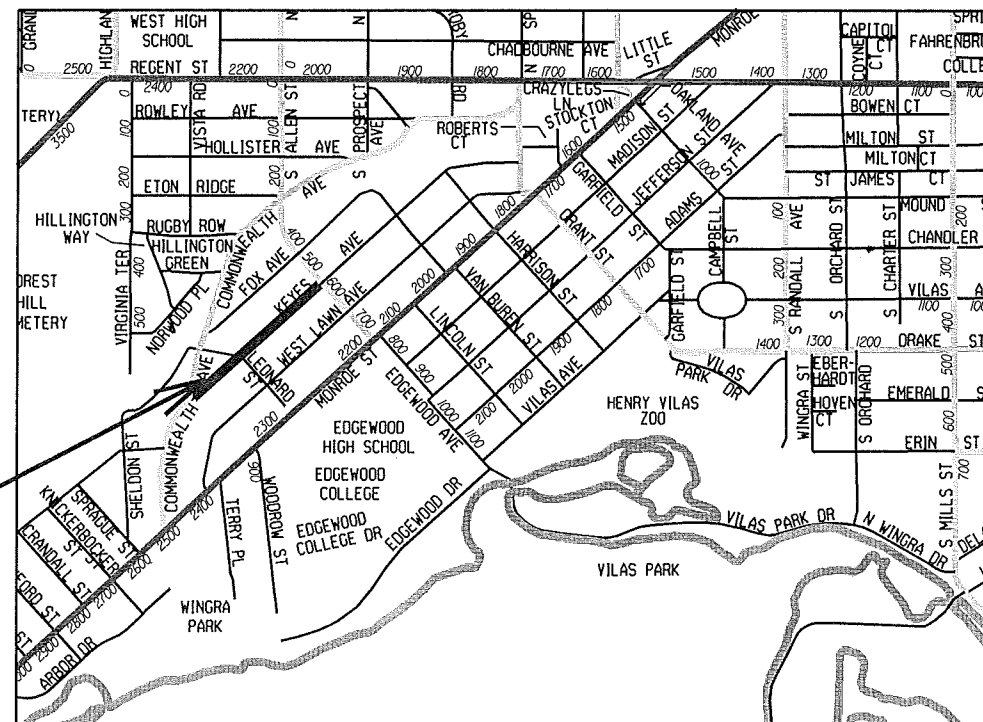
NOTES:

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).....1225 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT.....425 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT.....1650 C.Y.



PUBLIC IMPROVEMENT PROJECT
APPROVED

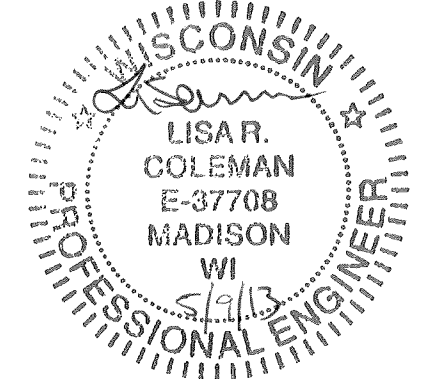
APRIL 16, 2013

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

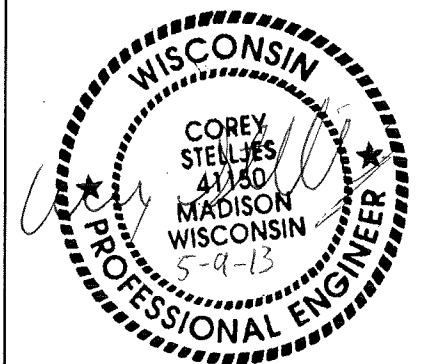
PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

Christy Backus 5-10-13
City Engineer Date

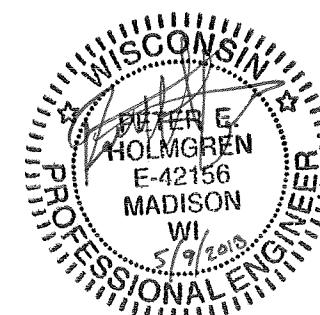
STREET
DESIGNED BY:



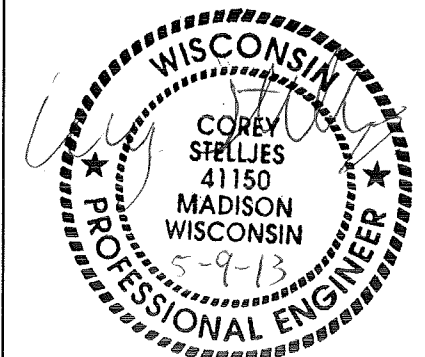
STORM SEWER
DESIGNED BY:

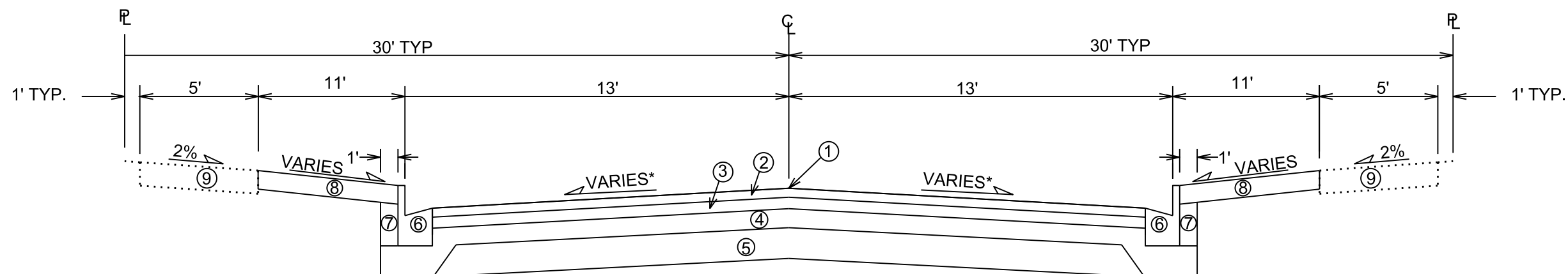


WATER
DESIGNED BY:

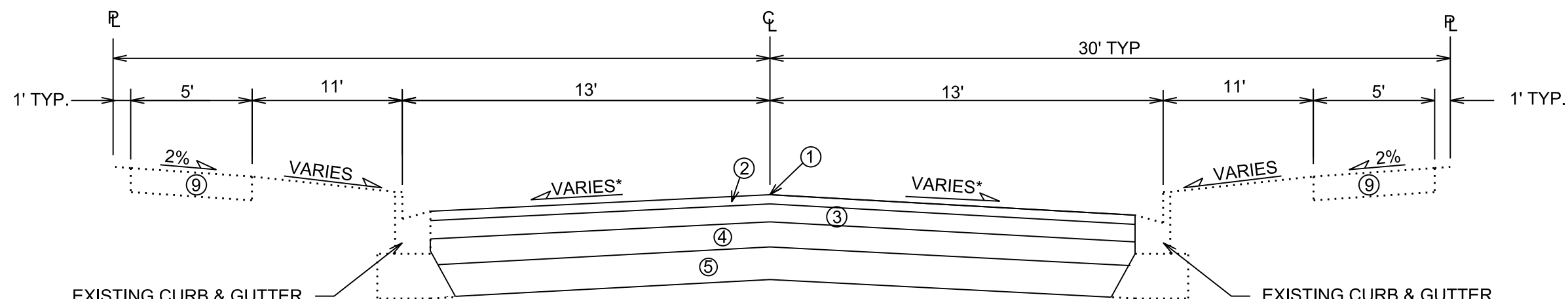


SANITARY SEWER
DESIGNED BY:





TYPICAL FINISHED SECTION
KEYES AVENUE
STA 3+20 TO 6+71
STA 10+35 TO 15+43



EXISTING CURB & GUTTER
REPLACE AS SHOWN IN PLAN

TYPICAL FINISHED SECTION
KEYES AVENUE
STA 2+84 TO 3+20
STA 6+71 TO 6+81
STA 6+68 TO 10+35
STA 15+43 TO 15+28

EXISTING CURB & GUTTER
REPLACE AS SHOWN IN PLAN

- ① POINT REFERRED TO ON PROFILE
- ② 1.75" BITUMINOUS UPPER LAYER, TYPE E-0.3
- ③ 1.75" BITUMINOUS LOWER LAYER, TYPE E-0.3
- ④ 4" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ TYPE 'A' CONCRETE CURB & GUTTER
- ⑦ FILL, INCIDENTAL
- ⑧ 4" TOPSOIL, SEED & MAT
- ⑨ 5" CONCRETE SIDEWALK, REPLACE AS NOTED IN PLAN

* SEE CROSS SECTION SHEETS FOR CROSS
SLOPES AND TOP OF CURB ELEVATIONS.
TYPICAL SECTIONS NOT TO SCALE

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

VENKATARAMANAN, V
& LAURA SCHWENDINGER
2322 KEYES AVE

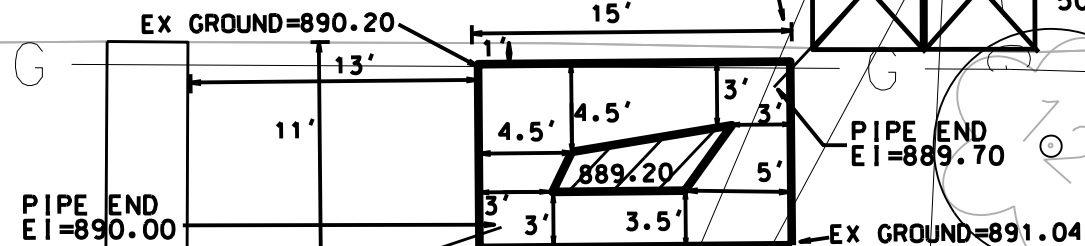
BEERMAN, DALE
2318 KEYES AVE

90 DEG VERT PVC BEND
CUT TOP OF PIPE TO
ELEV=891.00

12'-6" C900 PVC

EX GROUND=
890.90

REMOVE AND REPLACE
50 SF MAX SIDEWALK



CONECT TO INLET
@E1=887.95

11" -6" C900
PVC

DEPRESS CURB
FLOWLINE TO 8"

EX GROUND=890.62

2' CURB CUT AND
CLEAR STONE PER
BID ITEM 90030

EX WATER MAIN

KEYES AVENUE

8"W

PROPOSED 8" WATER

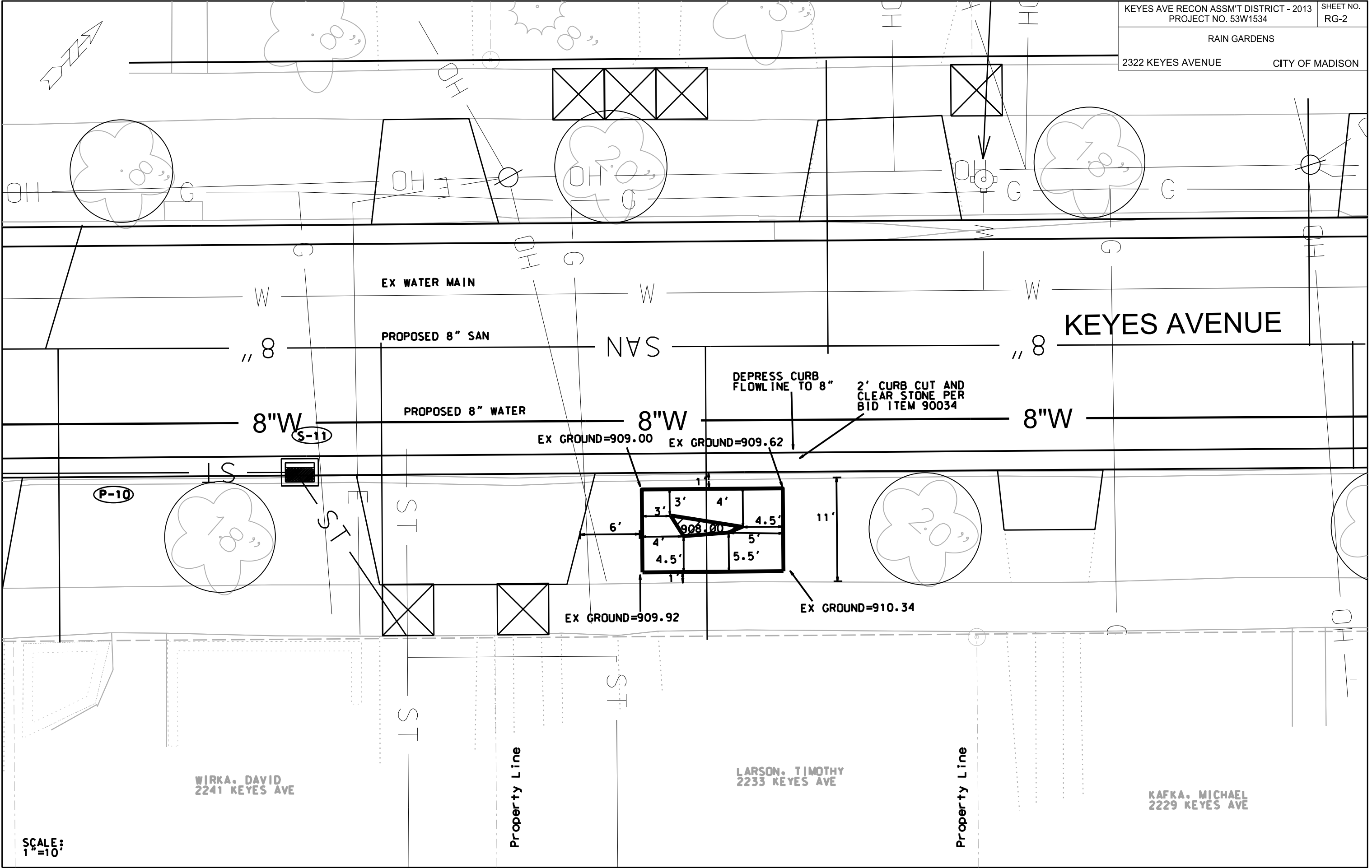
8"W

8"W

8"W

20"

SCALE:
1"=10'



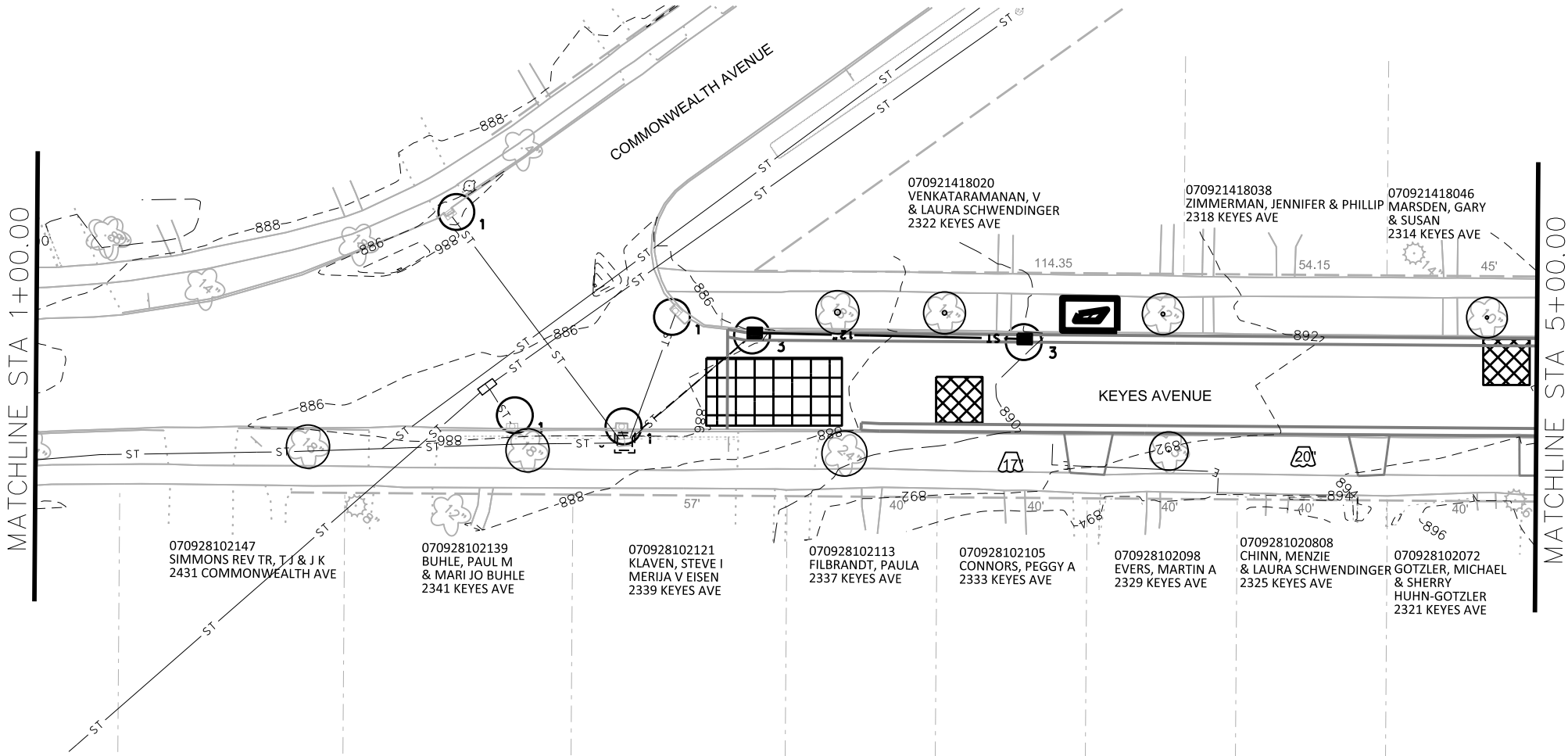
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV. DATE: _____

PLOT NAME: _____

PLOT SCALE: _____

SCALE:
1"=10'



EROSION CONTROL NOTES:

PROVISION OF AN EROSION CONTROL IMPLEMENTATION PLAN BY THE CONTRACTOR AT THE PRE-CON IS REQUIRED.

THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION DEWATERING PLAN AS PART OF THE EROSION CONTROL IMPLEMENTATION PLAN.

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 WDNRSOC 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.



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WDOT TYPE "C" INLET PROTECTION

WDOT TYPE "D" INLET PROTECTION

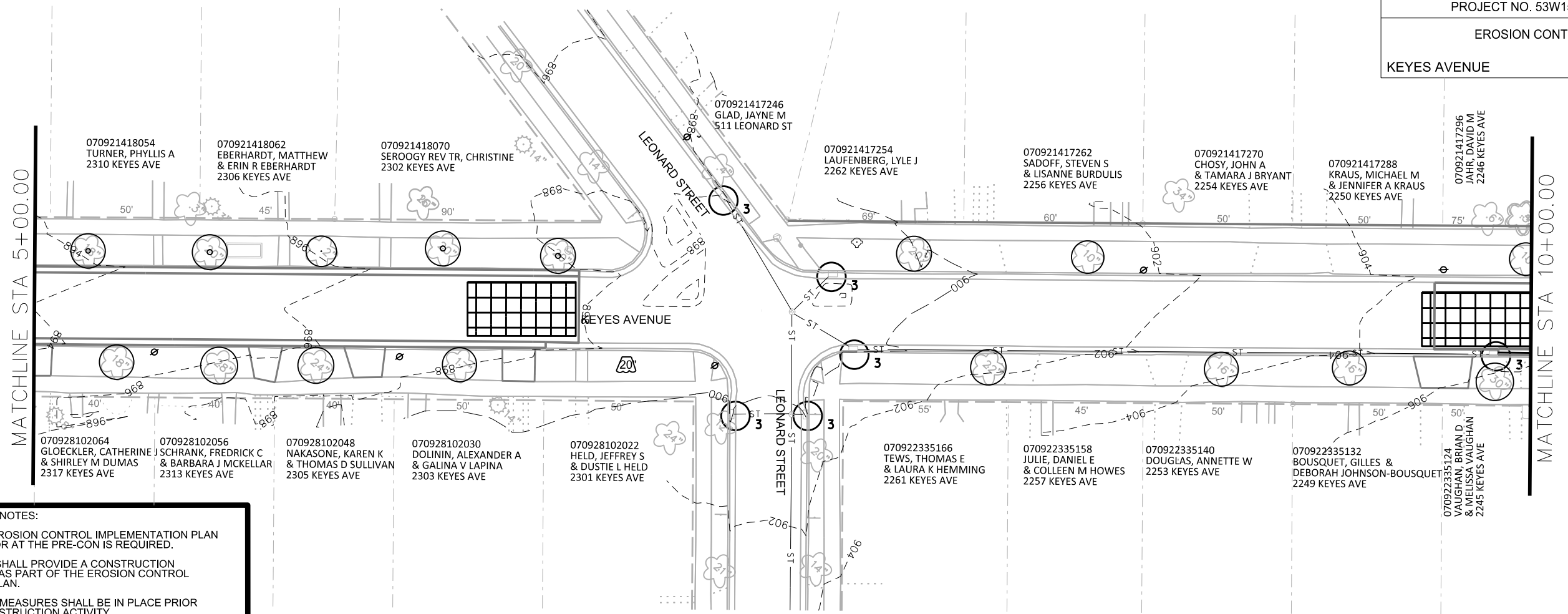
WDOT TYPE "D" HYBRID INLET PROTECTION

STREET CONSTRUCTION ENTERANCE BERM PER CITY OF MADISON S.D.D. 1.08

SILT SOCK (S.D.D. 1.09)

STREET CONSTRUCTION STONE BERM (S.D.D. 1.10)

CONSTRUCTION ENTRANCE (S.D.D. 1.07)



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1

2

3

WDOT TYPE "C" INLET PROTECTION

WDOT TYPE "D" INLET PROTECTION

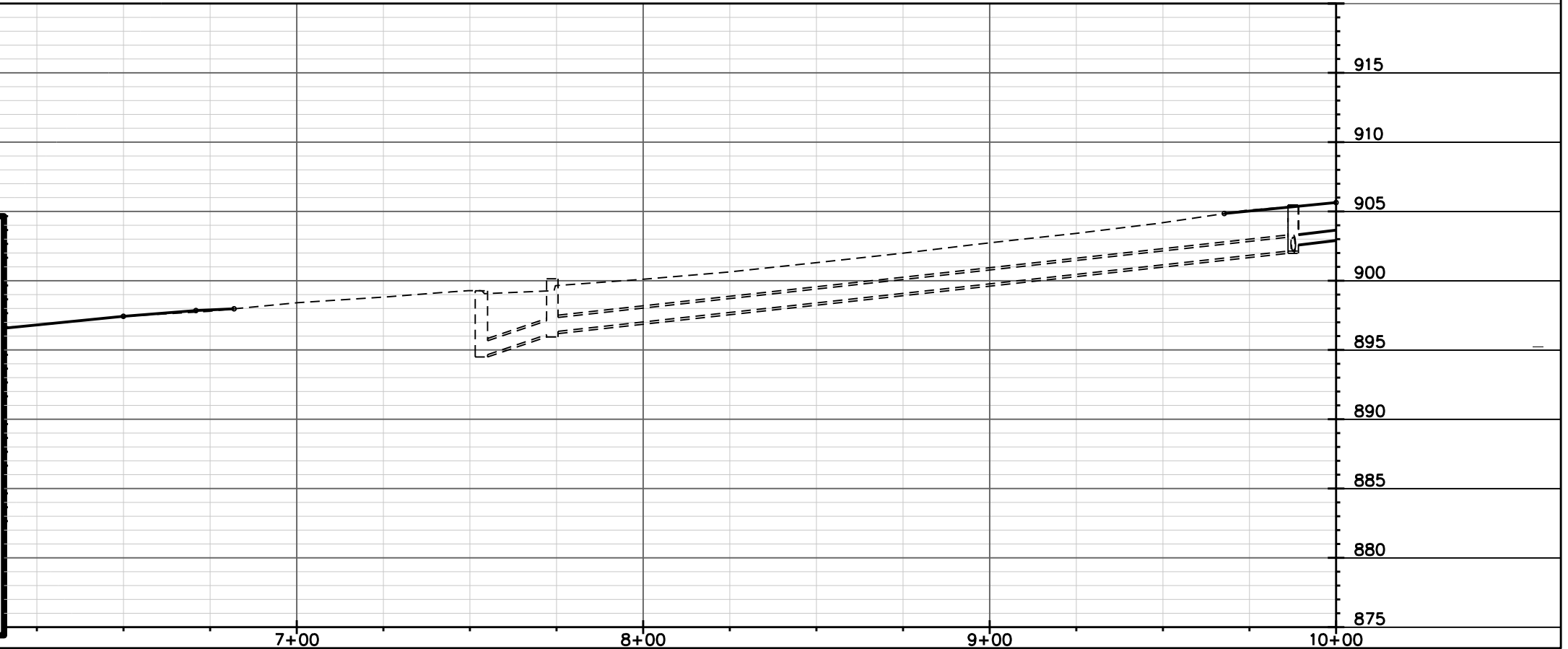
WDOT TYPE "D" HYBRID INLET PROTECTION

STREET CONSTRUCTION ENTRANCE BERM PER CITY OF MADISON S.D.D. 1.08

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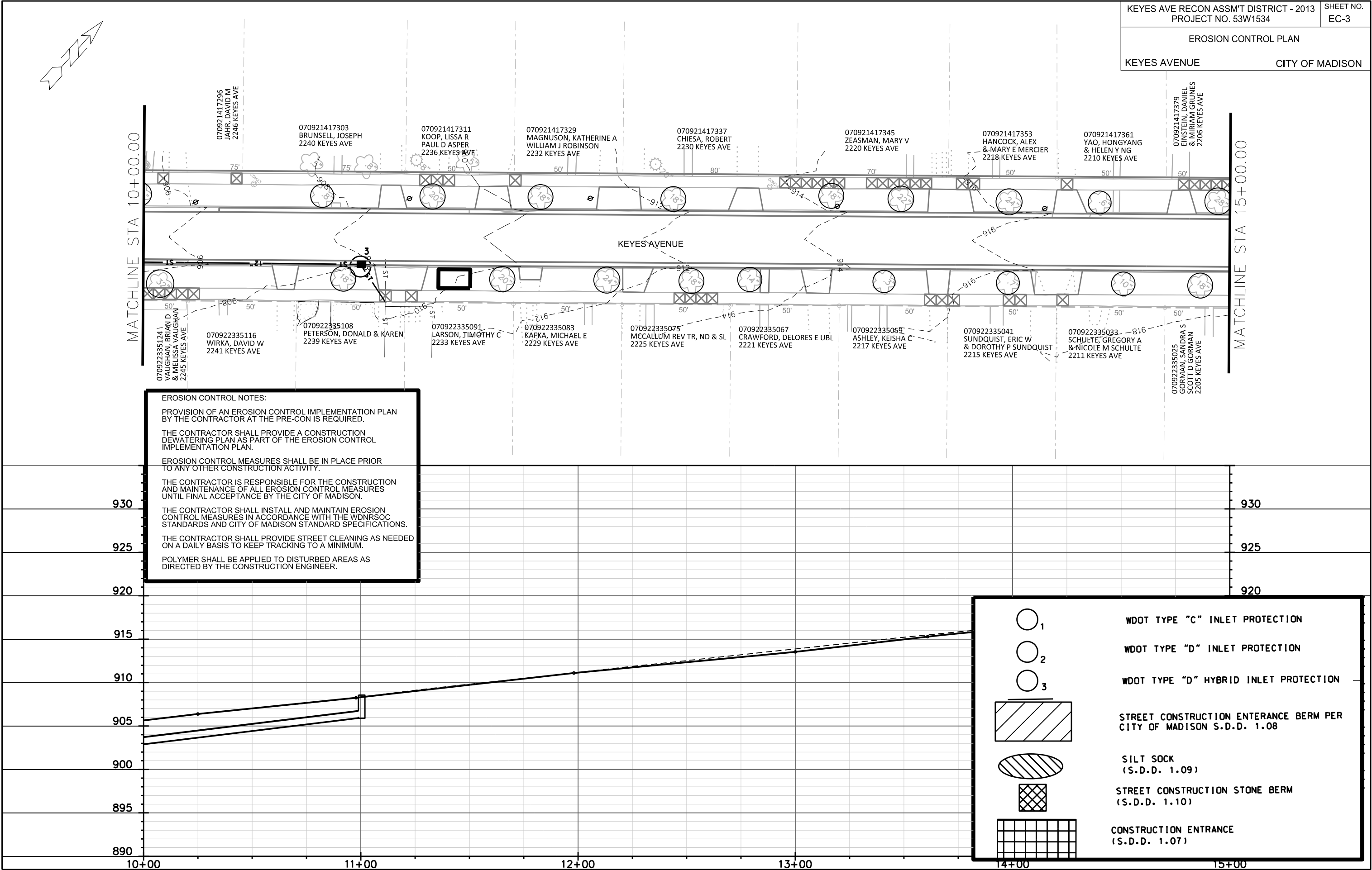


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

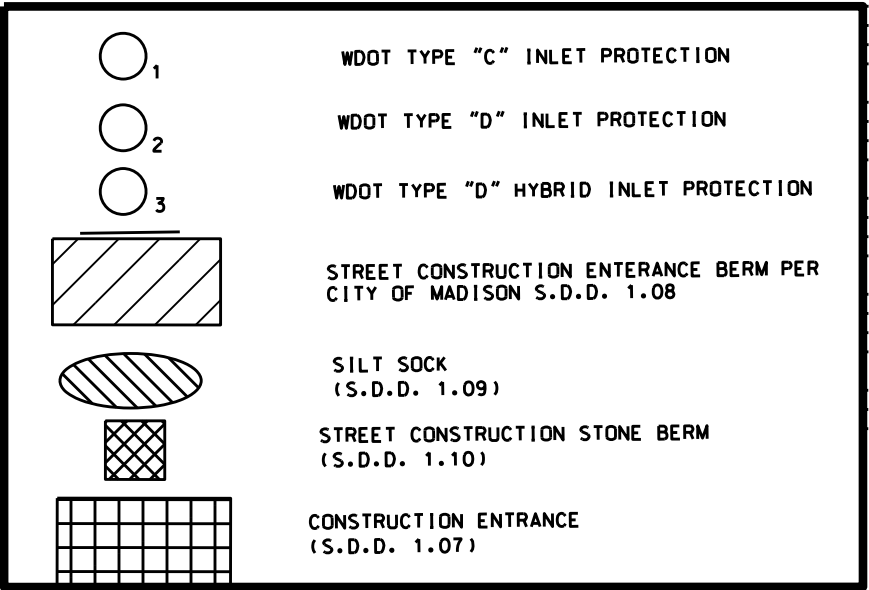
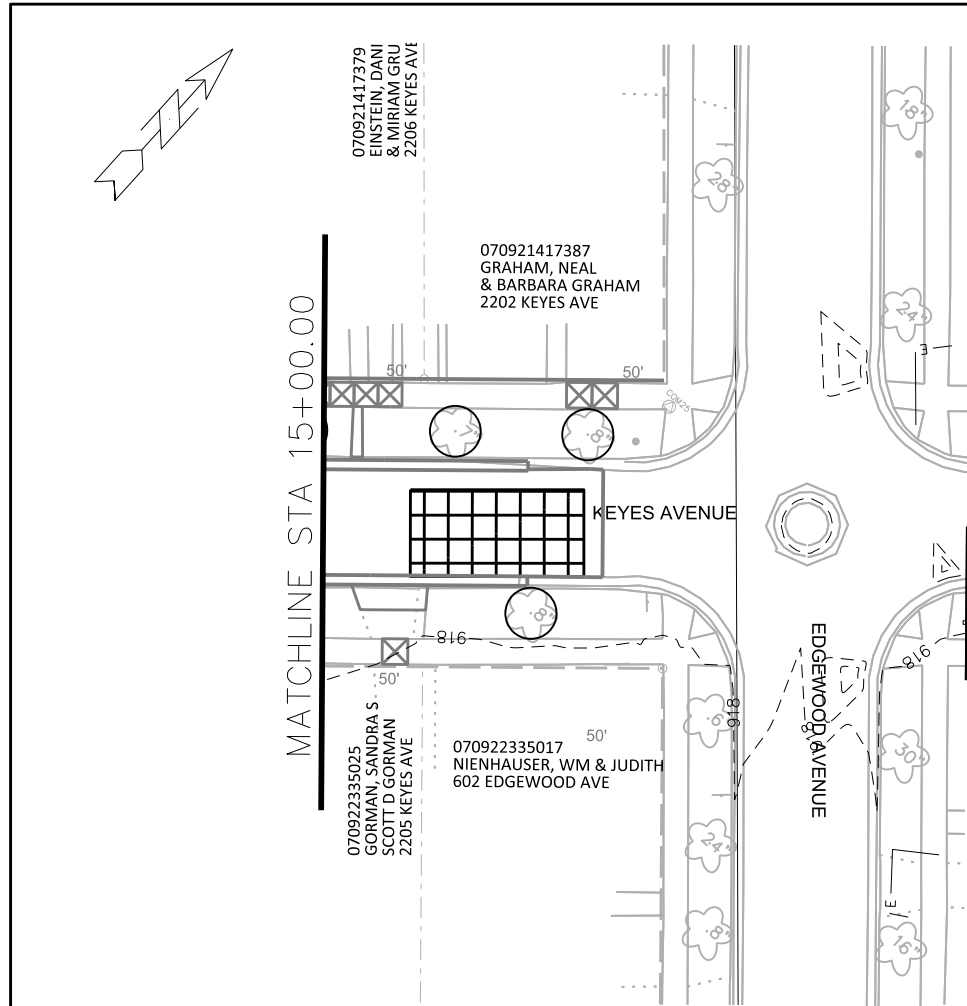


PLOT SCALE: _____

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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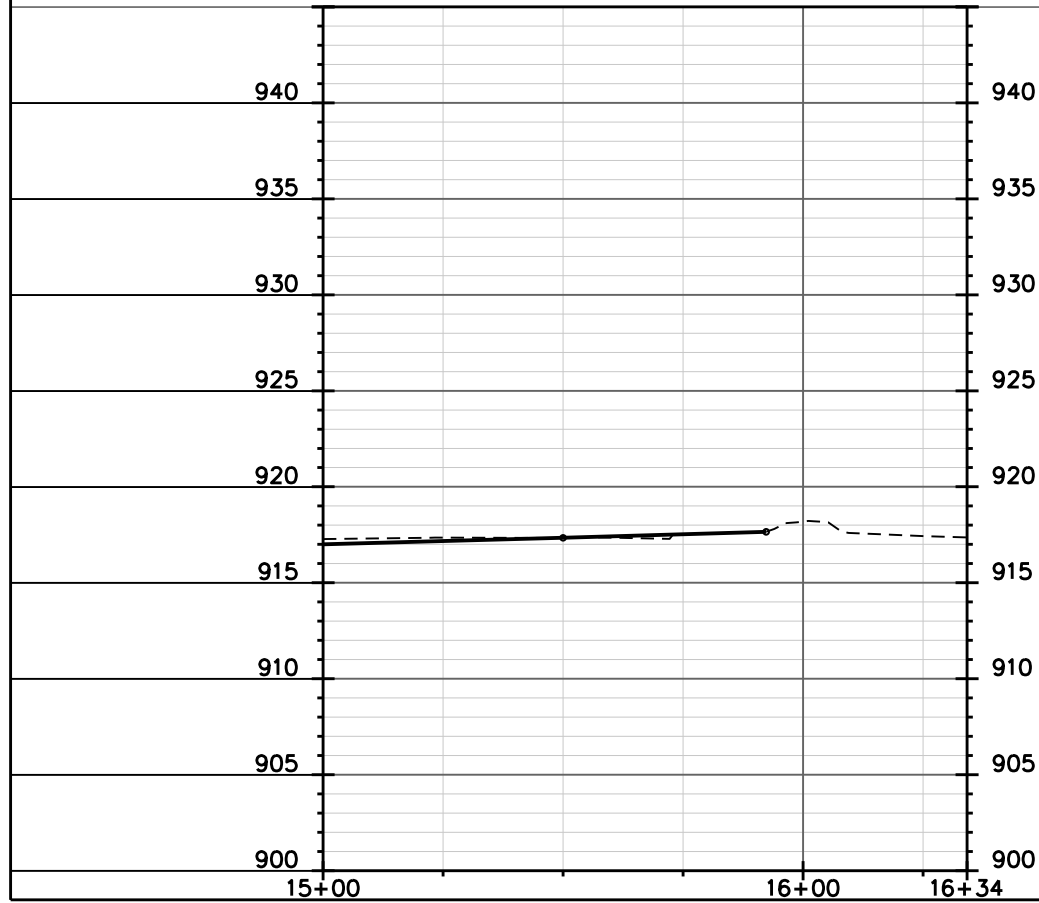
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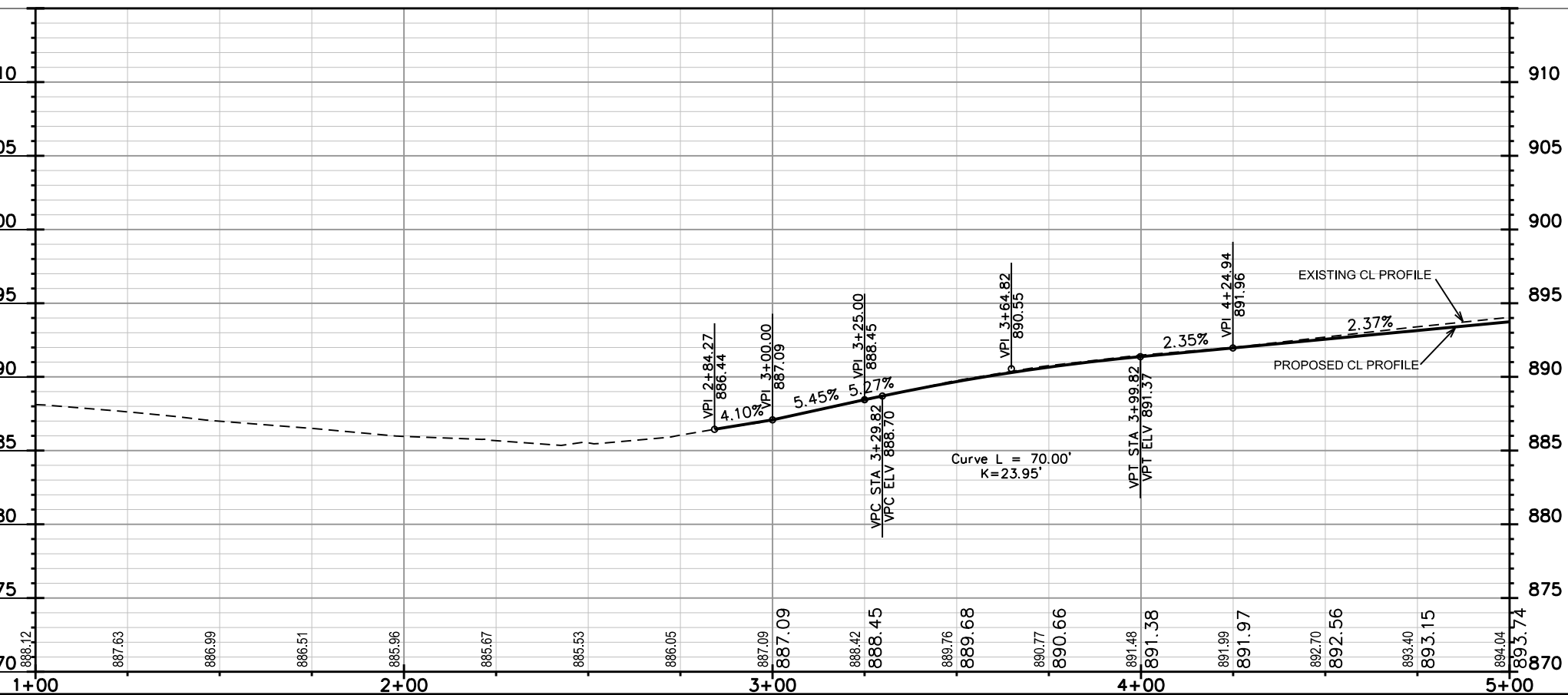
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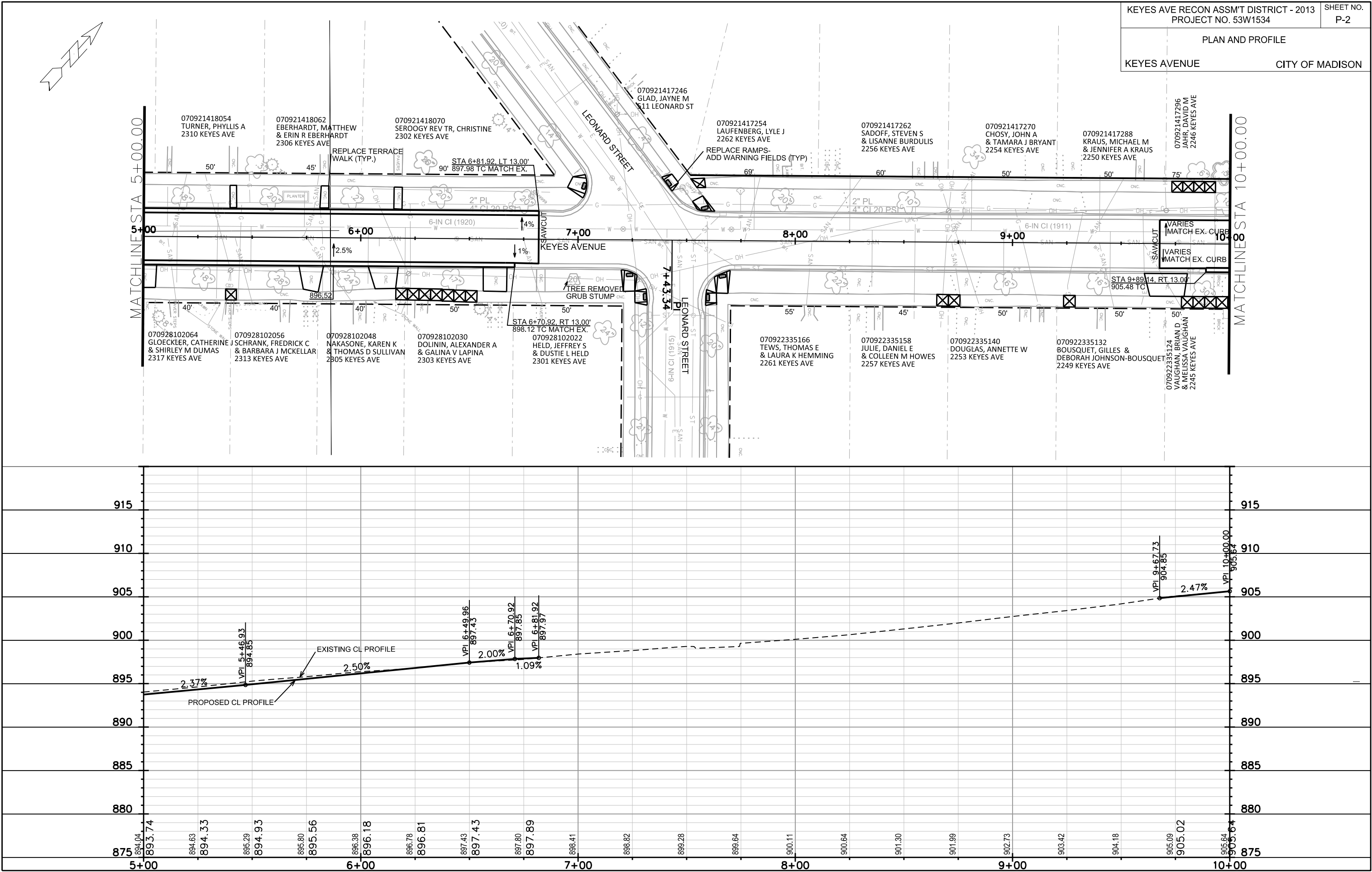


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REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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PLOT NAME: _____

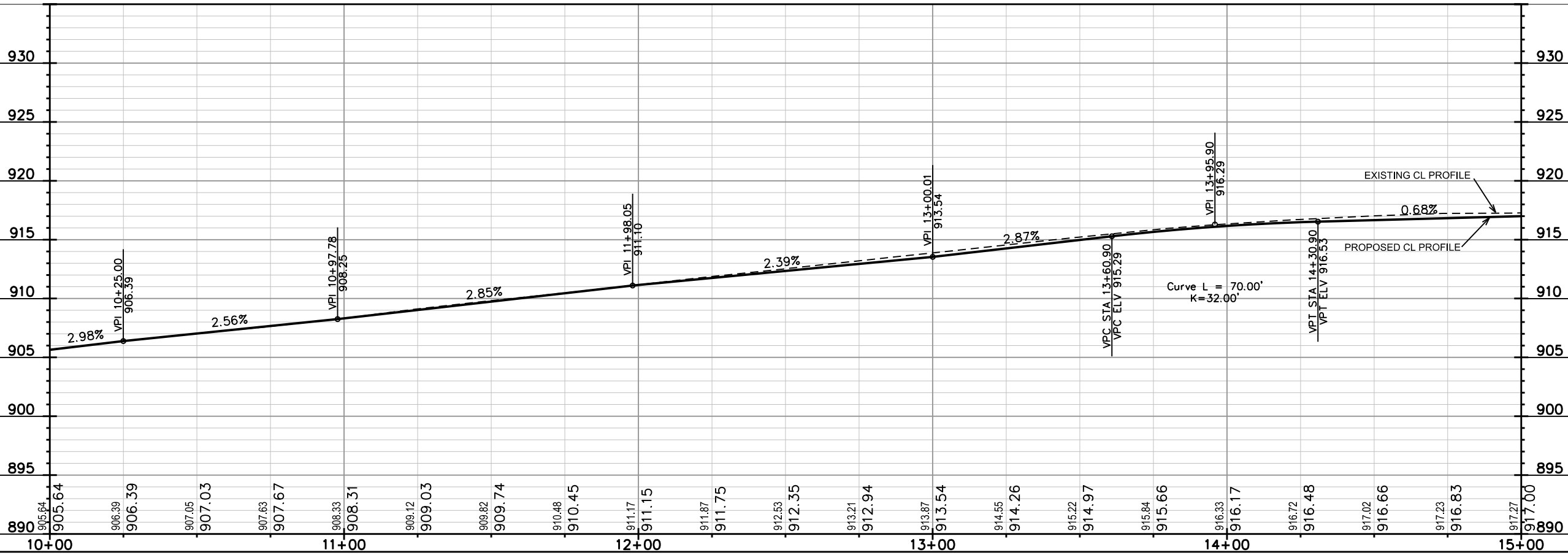
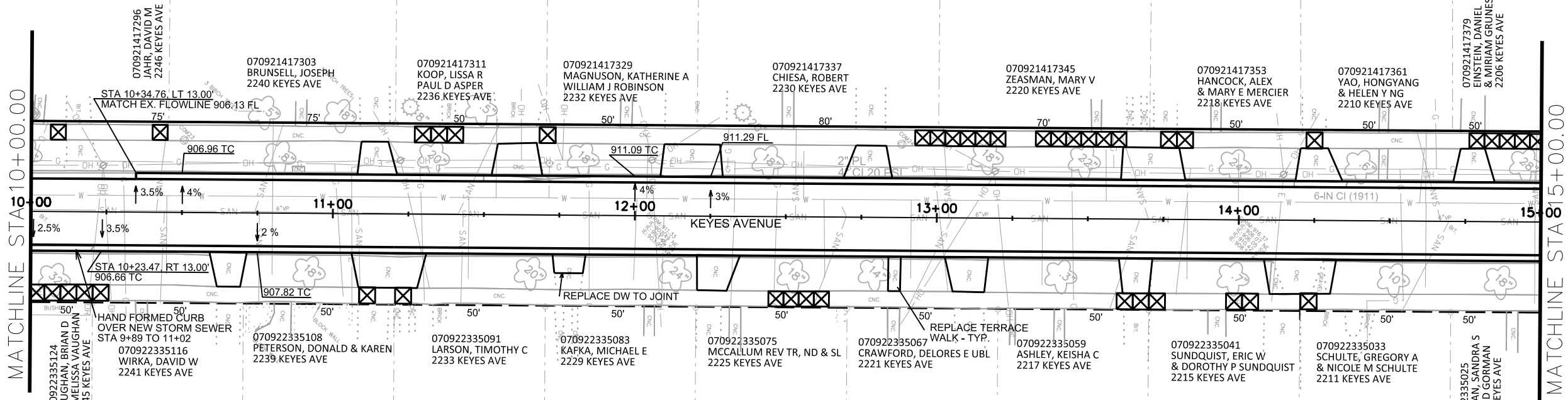
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

KEYES AVENUE

CITY OF MADISON



PLOT NAME: _____

PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

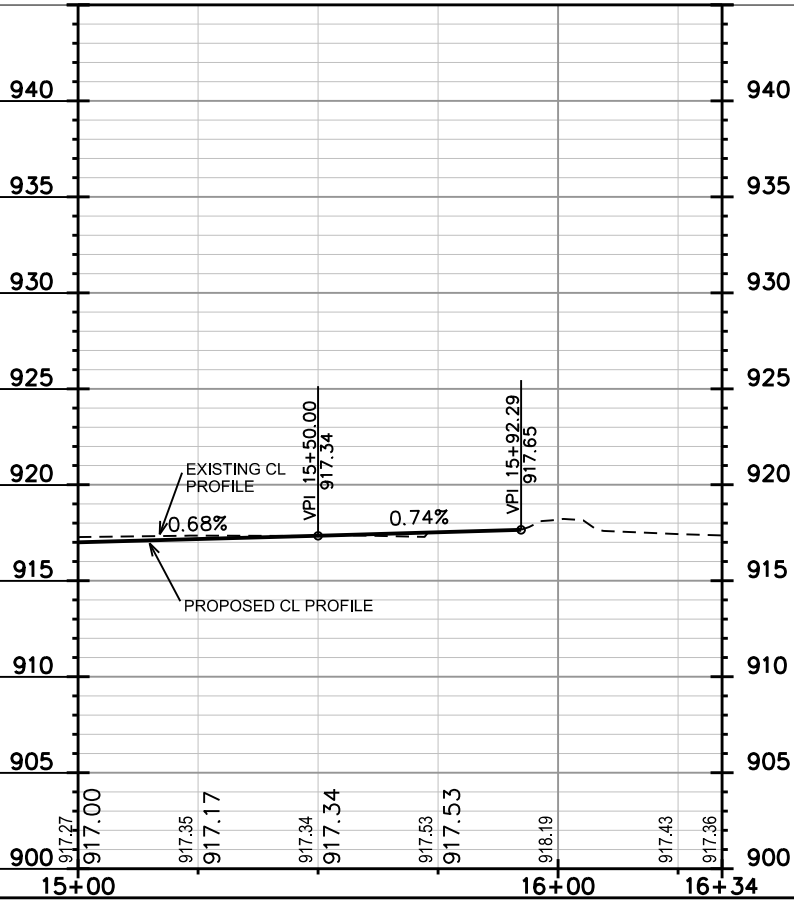
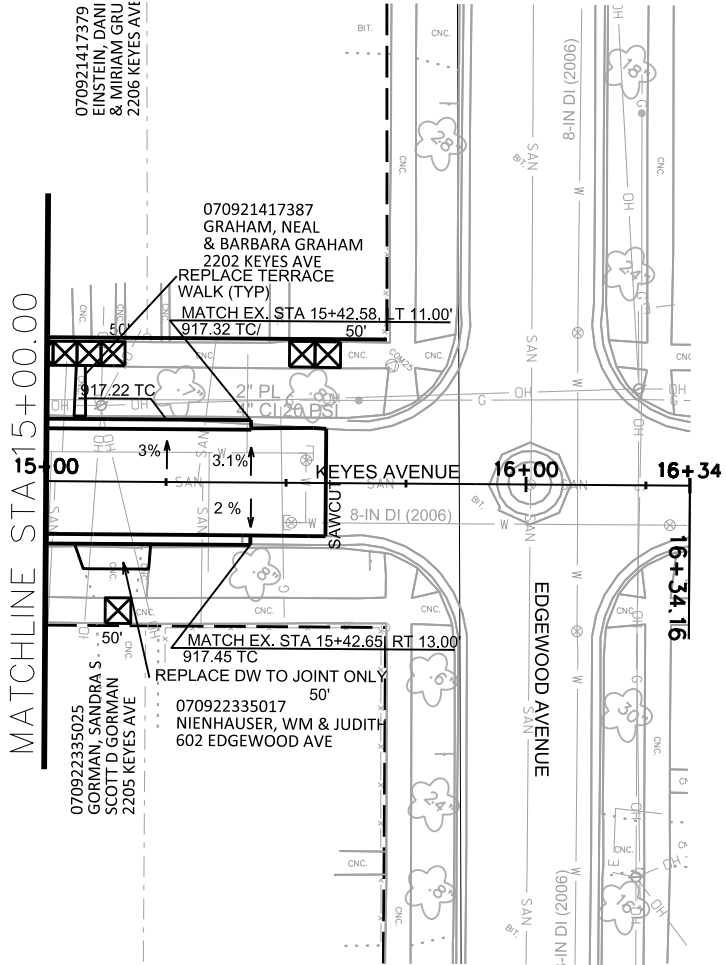
KEYES AVE RECON ASSM'T DISTRICT - 2013
PROJECT NO. 53W1534

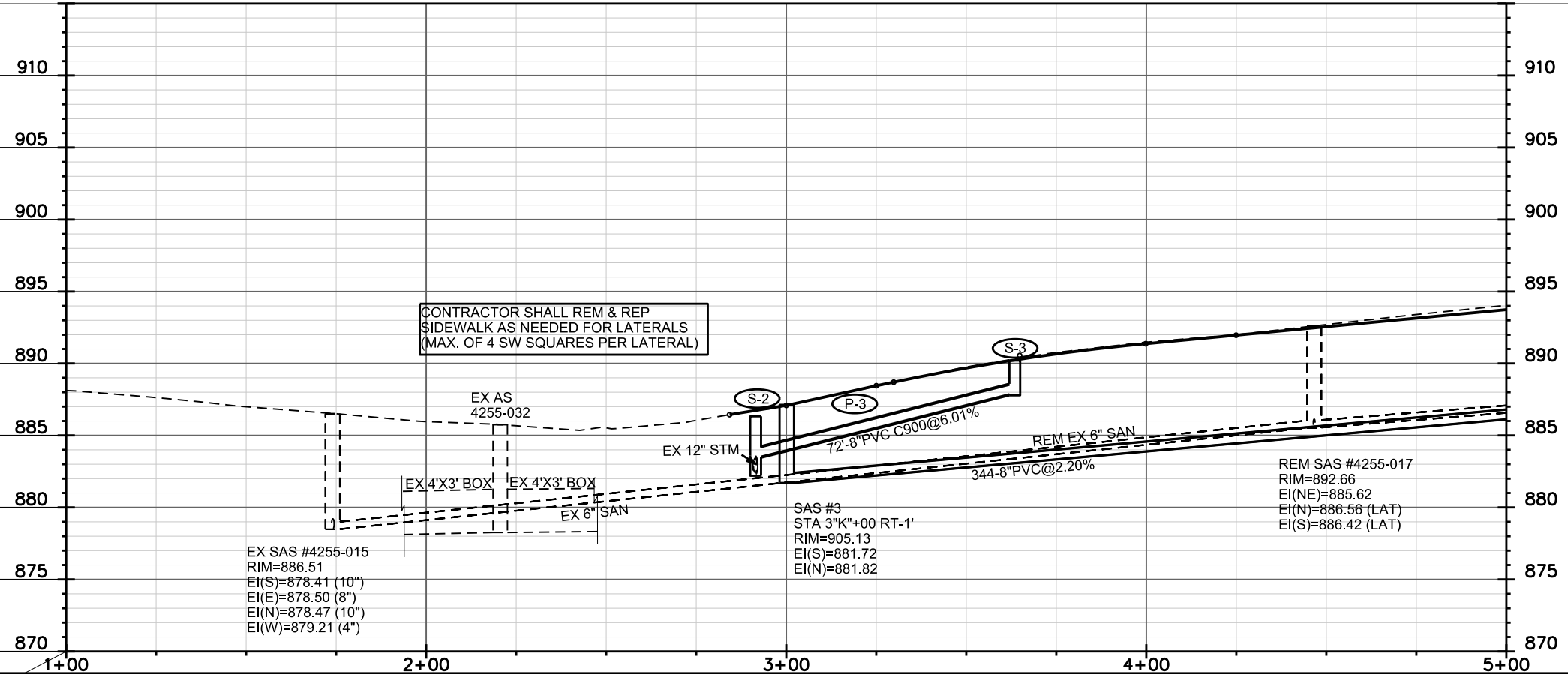
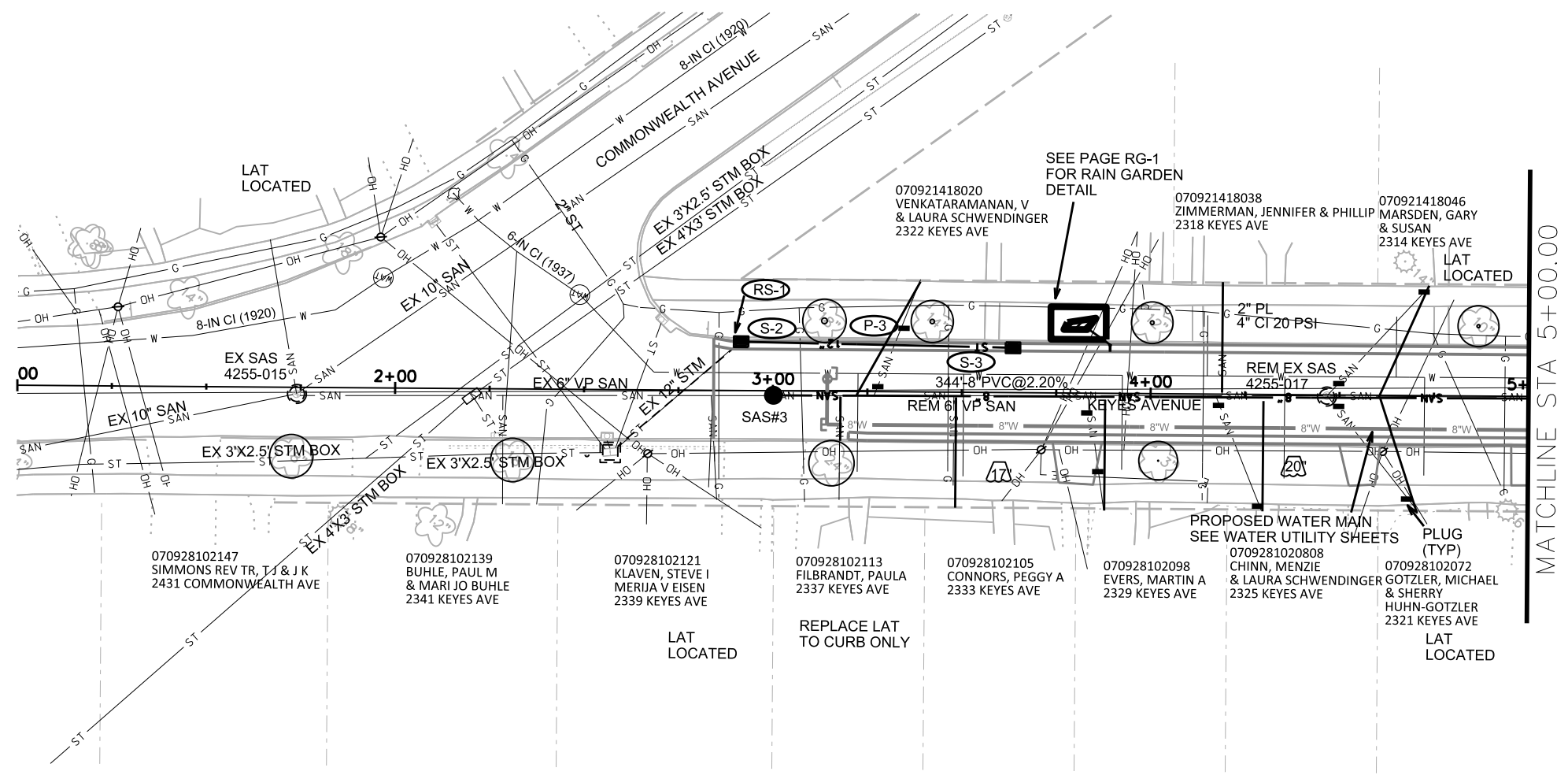
SHEET NO.
P-4

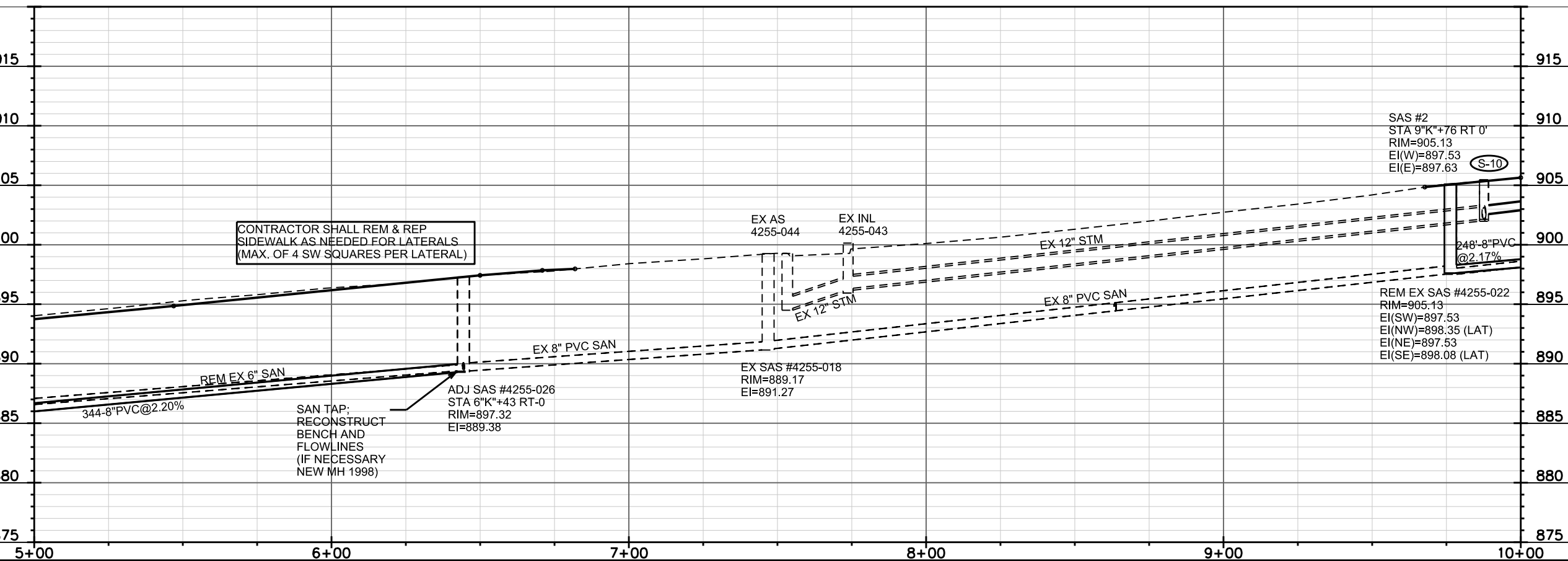
PLAN AND PROFILE

KEYES AVENUE

CITY OF MADISON





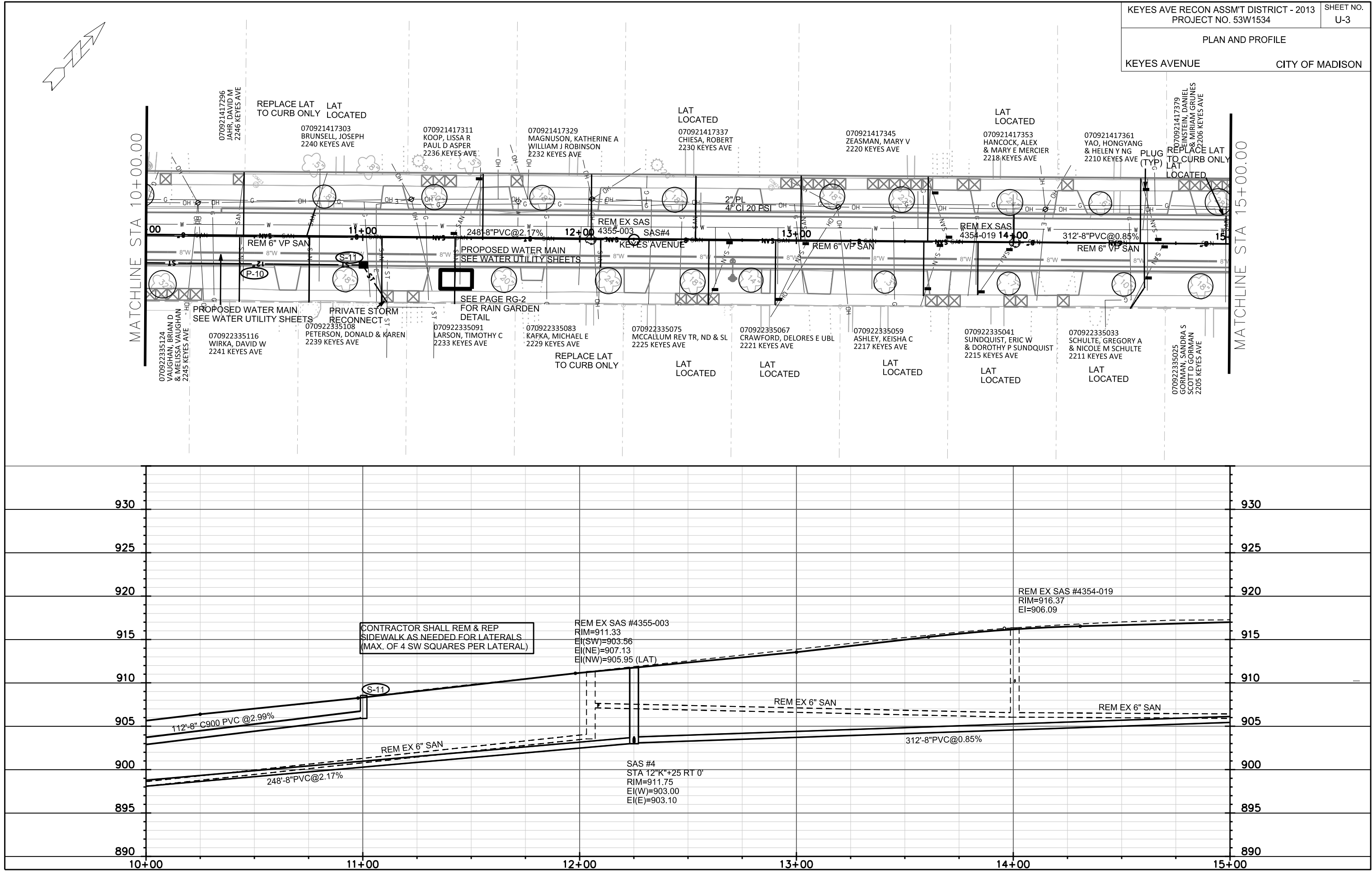


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



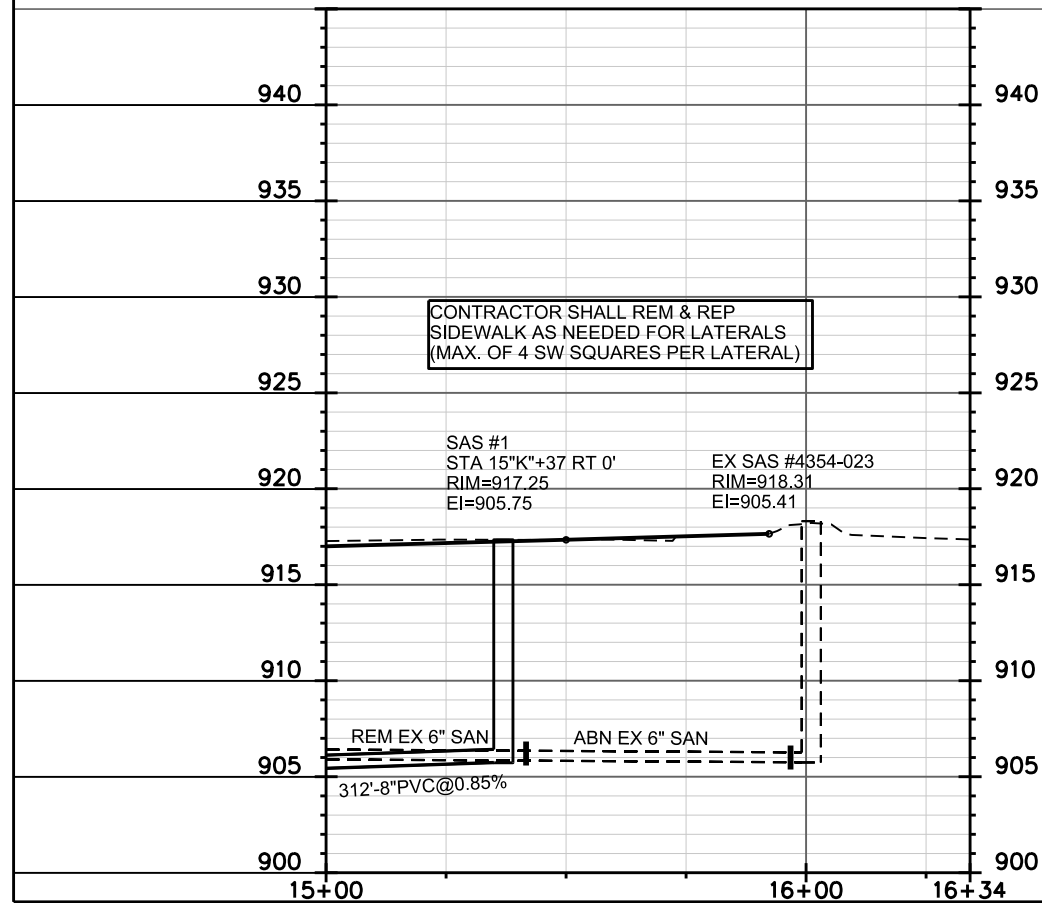
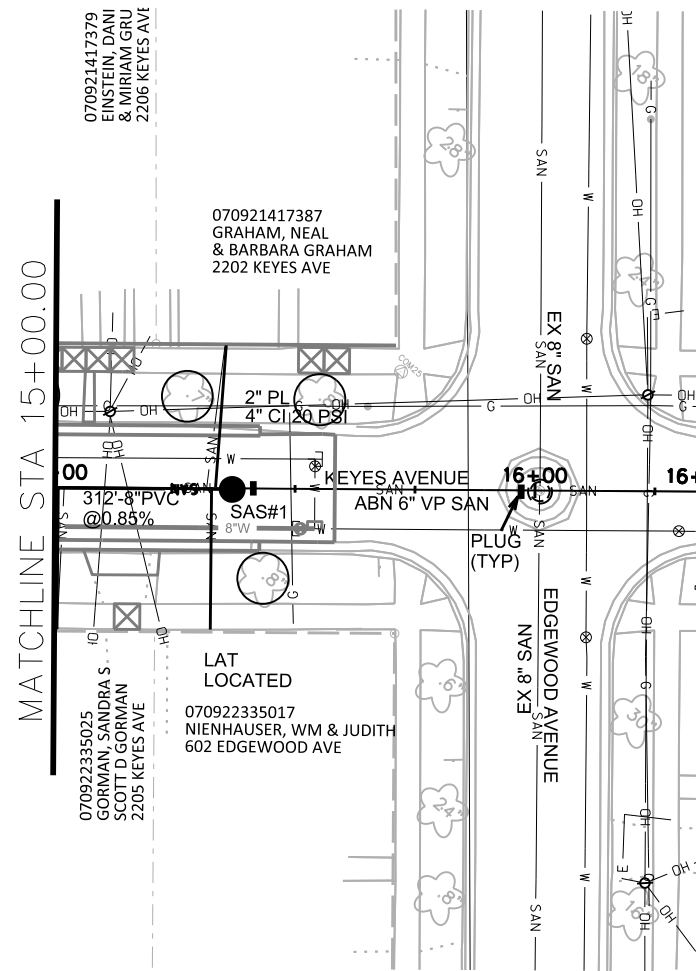
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

KEYES AVE RECON ASSM'T DISTRICT - 2013 PROJECT NO. 53W1534	SHEET NO. U-4
PLAN AND PROFILE	
KEYES AVENUE	CITY OF MADISON



SANITARY SEWER SCHEDULE

ALIGNMENT CODES:

"K"=KEYES AVE

KEYES AVE
PROJECT NO. 53W1543

SHEET NO.
U-5

SANITARY SEWER SCHEDULECITY OF MADISON

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
SAS #1	15'K'+37.00	RT-0	917.25	905.75	11.50	
SAS #2	9'K'+76.00	RT-0	905.13	897.53	7.60	
SAS #3	3'K'+00.00	RT-1.00	887.10	881.72	5.38	
SAS #4	12'M'+25.00	RT-0	911.75	903.00	8.75	

PROPOSED SANITARY PIPES

FROM SAS (DNSTM)	TO SAS (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	SIZE (DIA)	TYPE	NOTES
SAS #2	SAS #4	248	897.63	903.00	2.17%	8"	PVC	
SAS #4	SAS #1	312	903.10	905.75	0.85%	8"	PVC	
SAS #3	4255-026	344	881.82	889.38	2.20%	8"	PVC	

SANITARY PIPE REMOVALS AND ABANDONMENTS

REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	SIZE (DIA)	
4354-023	SAS#1	60	N	6"	ABANDON WITH PLUGS
SAS#1	4354-019	136	N	6"	REMOVE
4354-019	4355-003	195	N	6"	REMOVE
4355-003	4255-022	229	N	6"	REMOVE
4255-026	4255-017	197	N	6"	REMOVE
4255-017	4255-015	273	N	6"	REMOVE

SANITARY STRUCTURE REMOVALS

SAS NO.	STATION	LOCATION (OFFSET)	EX TOP CASTING	EX EI	DEPTH	NOTES
4255-017	4'K'+47.00	RT-0	892.66	885.53	7.13	REMOVE
4255-022	9'K'+76.00	RT-0	905.13	897.53	7.60	REMOVE
4355-003	12'K'+06.00	RT-0	911.33	903.56	7.77	REMOVE
4354-019	14'K'+01.00	RT-0	916.37	906.06	10.31	REMOVE

STORM SEWER SCHEDULE

ALIGNMENT CODES:

"K"= KEYES AVE

KEYES AVE
PROJECT NO. 53W1534

SHEET NO.
U-6

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-2	2'K'+92.00	LT-12.50	H INLET	886.33	882.50	3.83	TAP
S-3	3'K'+64.00	LT-12.50	H INLET	890.20	887.95	2.25	FP; W/3067-7004-V
S-10	9'K'+87.00	RT-12.50	EX H INLET	905.46	902.14	3.32	TAP
S-11	11'K'+00.00	RT-12.50	H INLET	908.56	906.06	2.50	FP; W/3067-7004-V

PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-3	S-2	S-3	72	883.62	887.95	6.01%	8"	PVC AWWA C900 DR18	
P-10	S-10	S-11	112	902.71	906.06	2.99%	8"	PVC AWWA C900 DR18	
184									

STORM STRUCTURE REMOVALS

STRUCT NO.	ID #	STATION	LOCATION (OFFSET)	TYPE	NOTES:
RS-1	IN 4255-024	2'K'+92.00	LT-12.50	EX INLET	REMOVE

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.

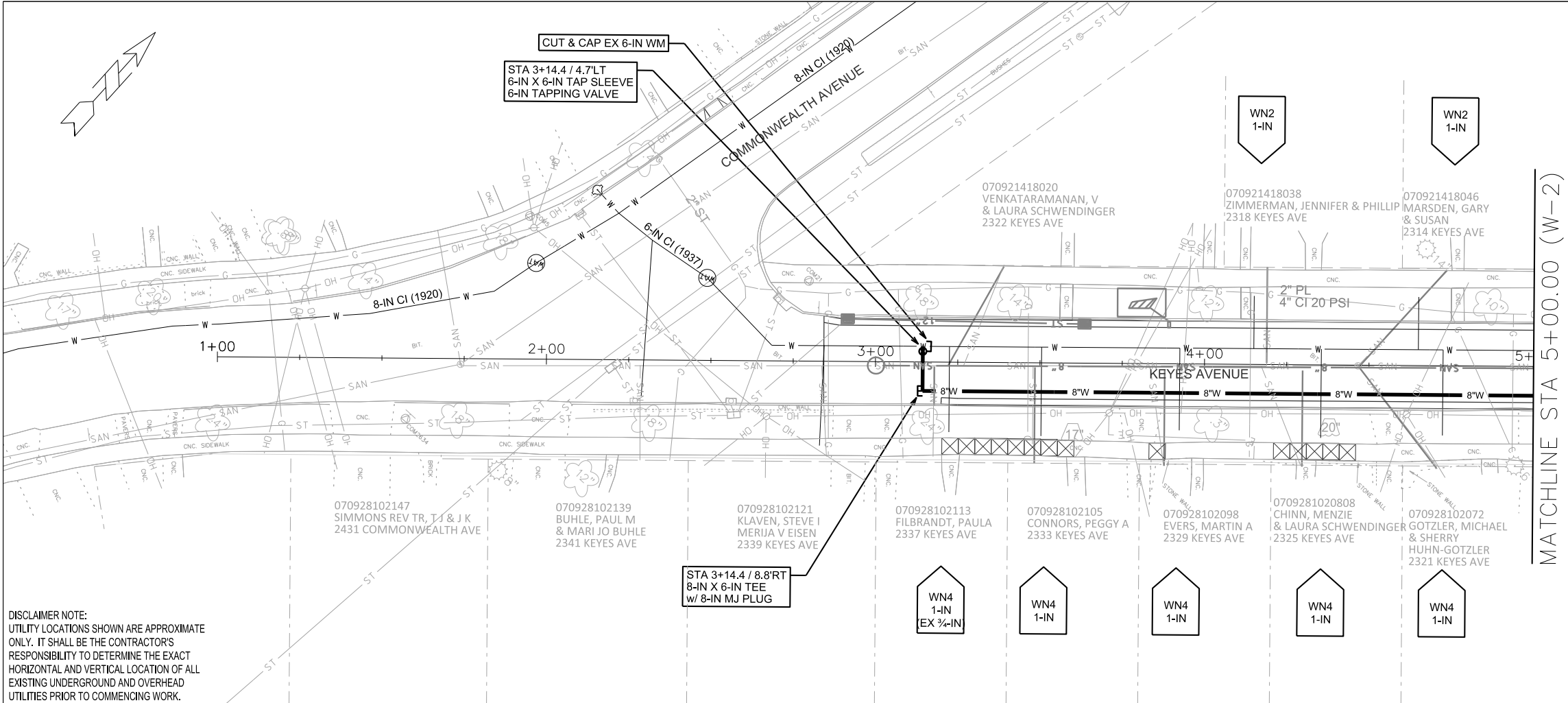
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.

- 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 COREY STELLJES OF CITY ENGINEERING AT (608) 266-9721 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.



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.

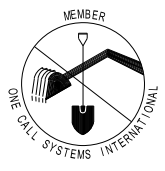


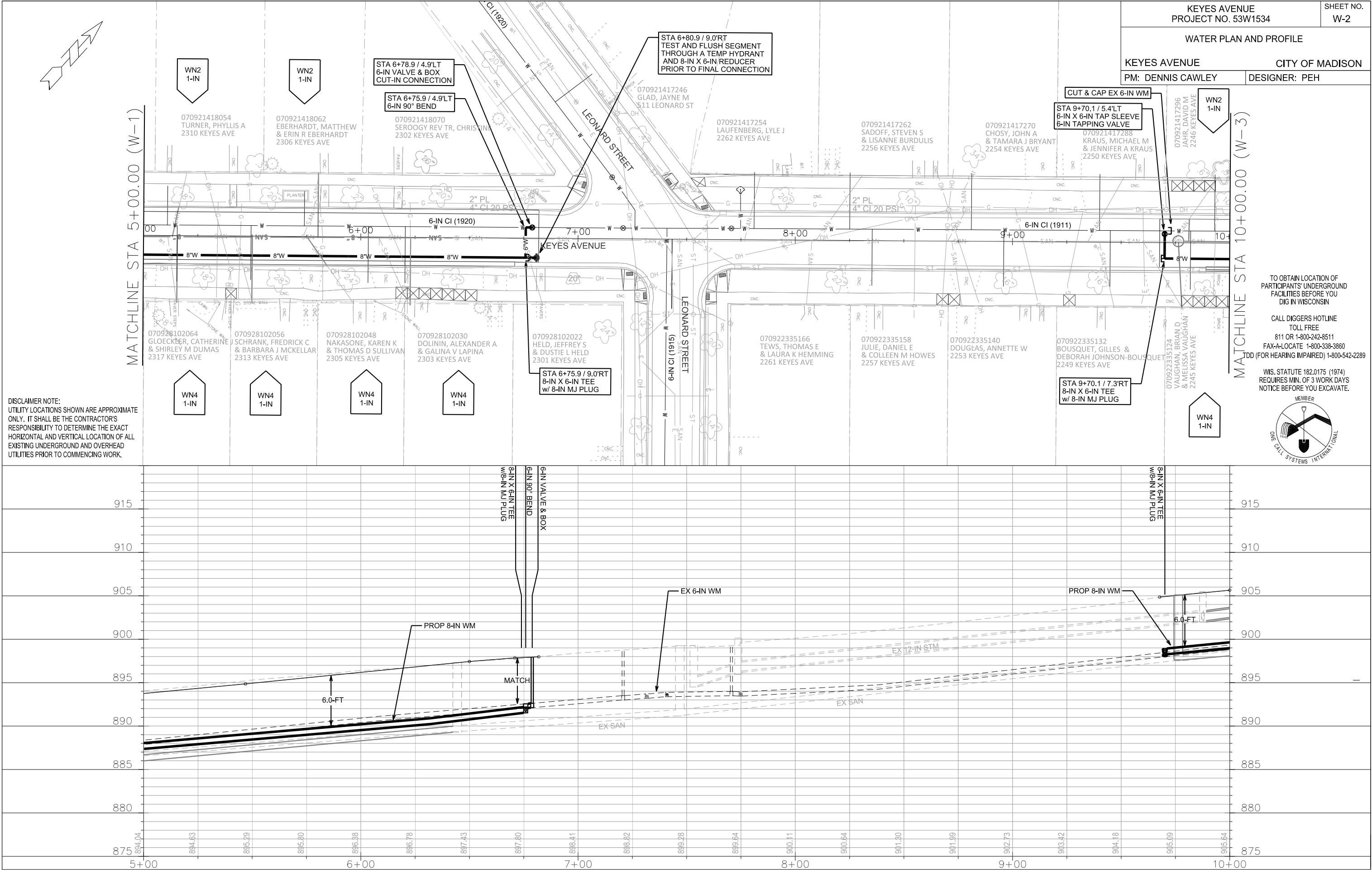
KEYES AVENUE PROJECT NO. 53W1534		SHEET NO. W-1
WATER PLAN AND PROFILE		
KEYES AVENUE		CITY OF MADISON
PM: DENNIS CAWLEY	DESIGNER: PEH	

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.





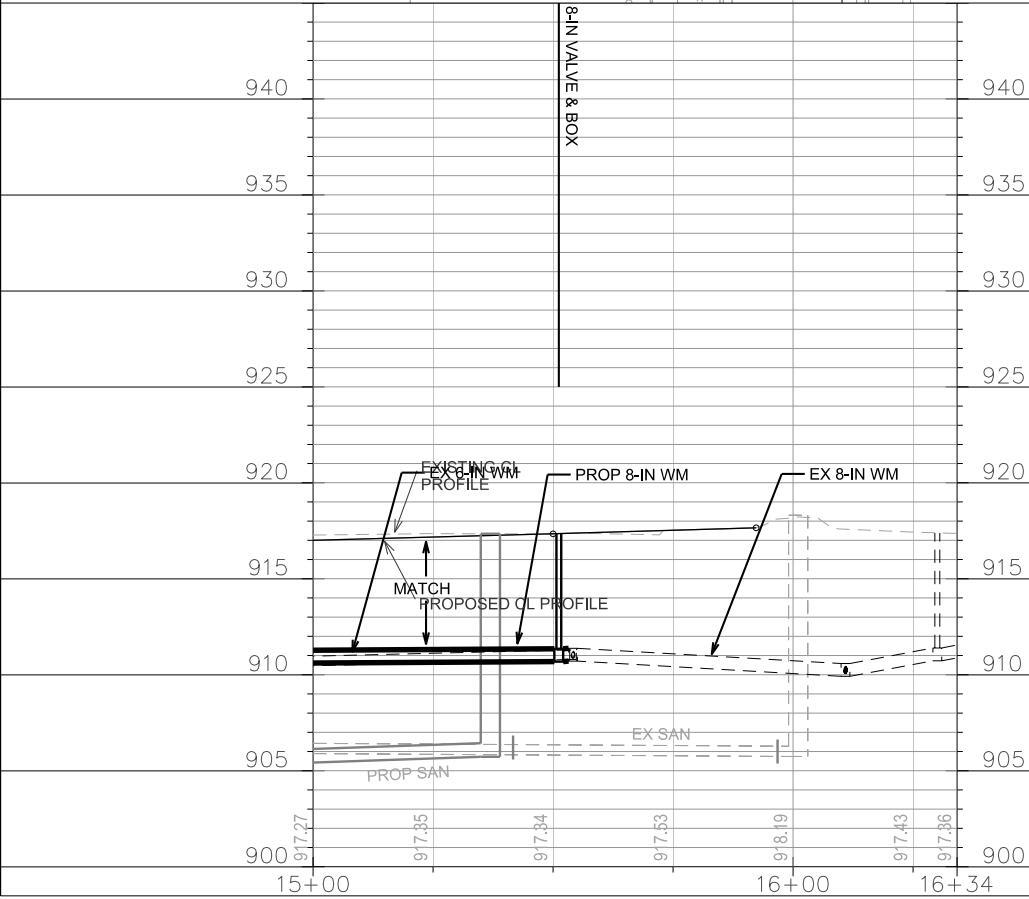
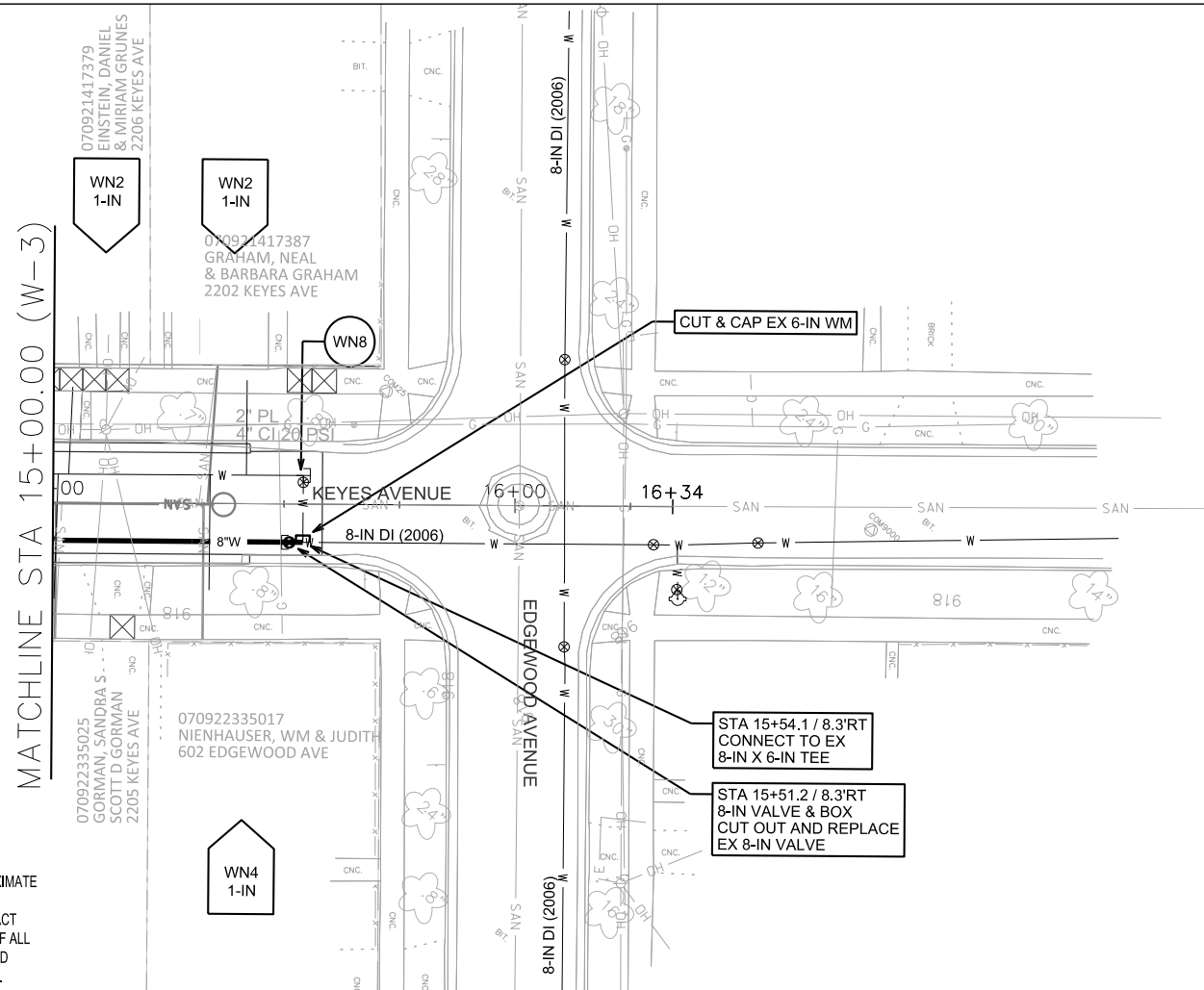
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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KEYES AVENUE
PROJECT NO. 53W1534

SHEET NO.
W-4

WATER PLAN AND PROFILE

KEYES AVENUE

CITY OF MADISON

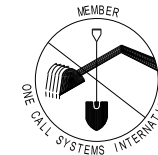
PM: DENNIS CAWLEY

DESIGNER: PEH

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

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REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.

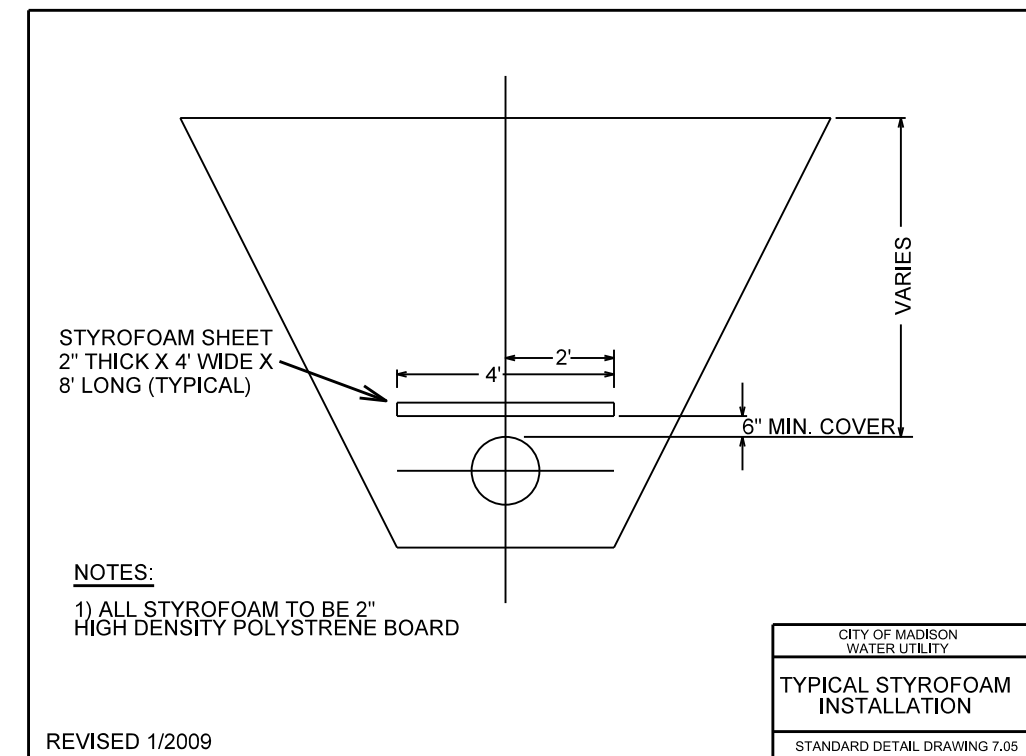
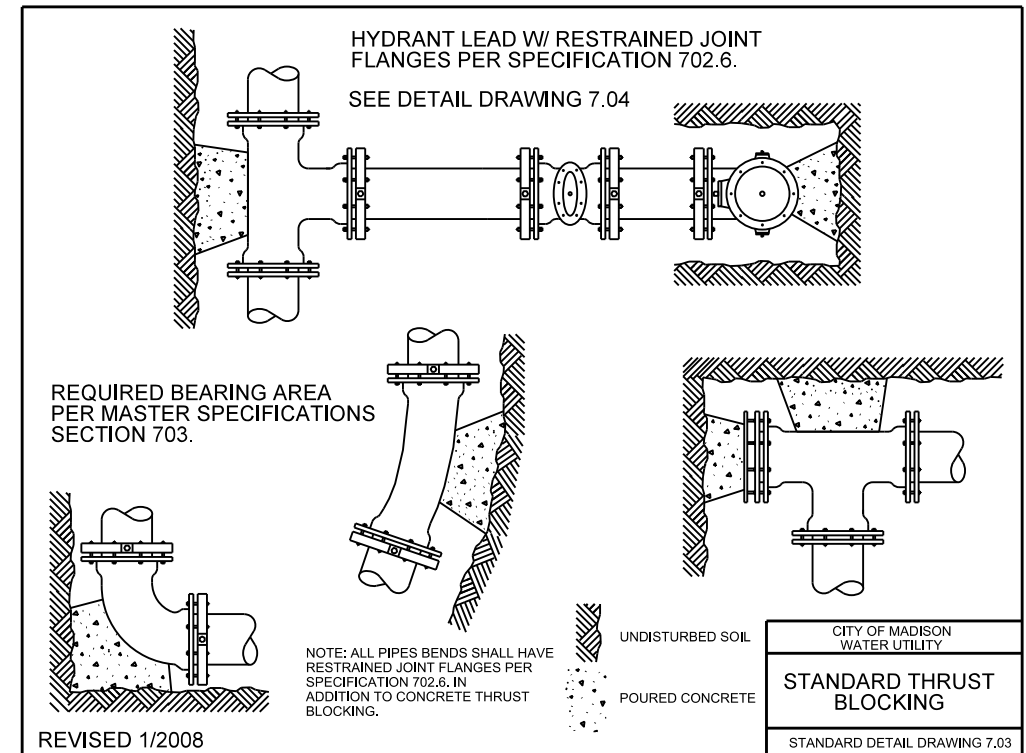


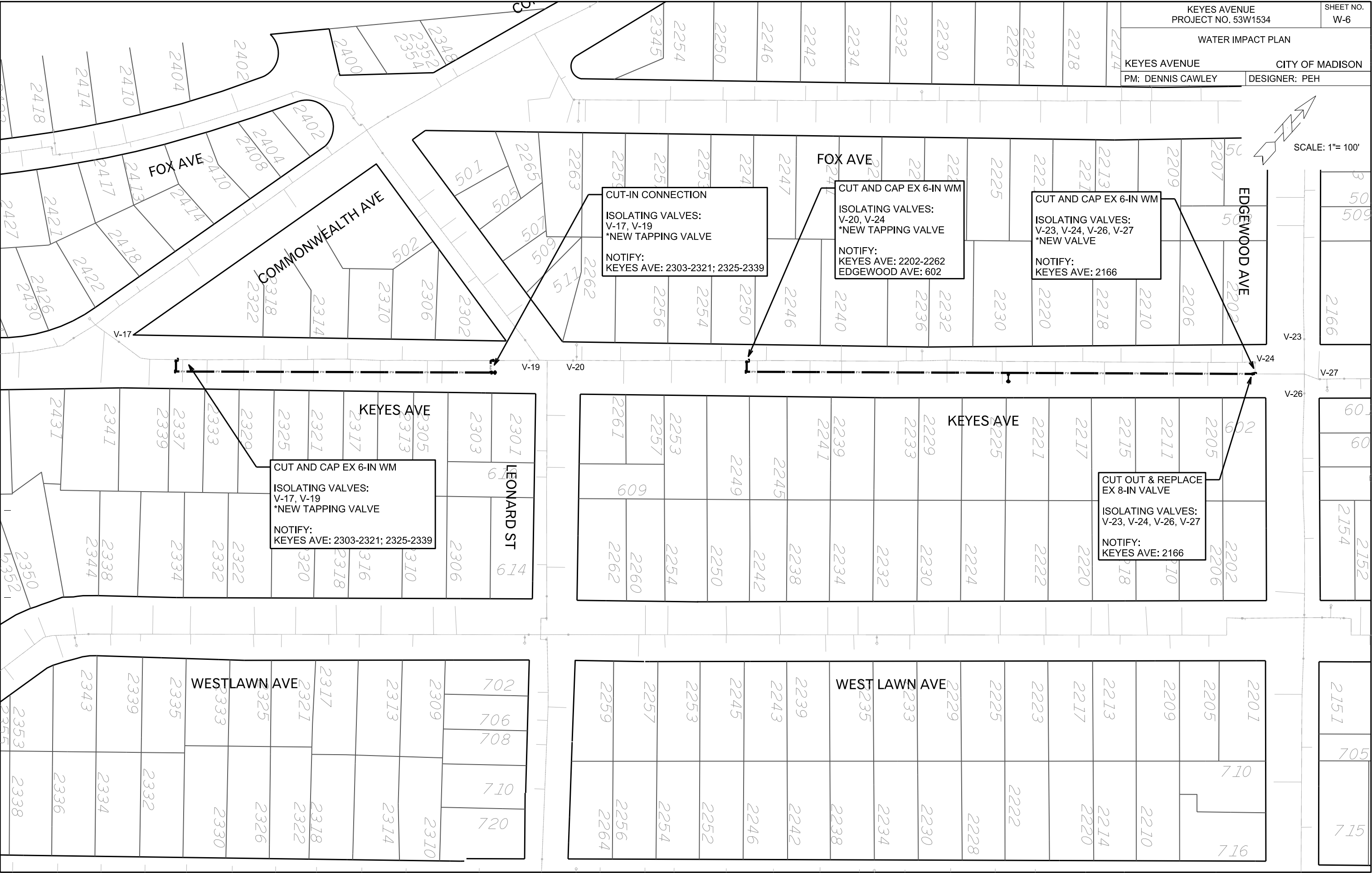
CITY OF MADISON

DESIGNER: PEH

- WN1 - REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.
- WN2 - EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN (OR TO THE LARGER PARALLEL EXISTING 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 (OR TO THE LARGER PARALLEL EXISTING 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

2 - 6-IN TAPPING VALVE
2 - 6-IN X 6-IN TAP SLEEVE



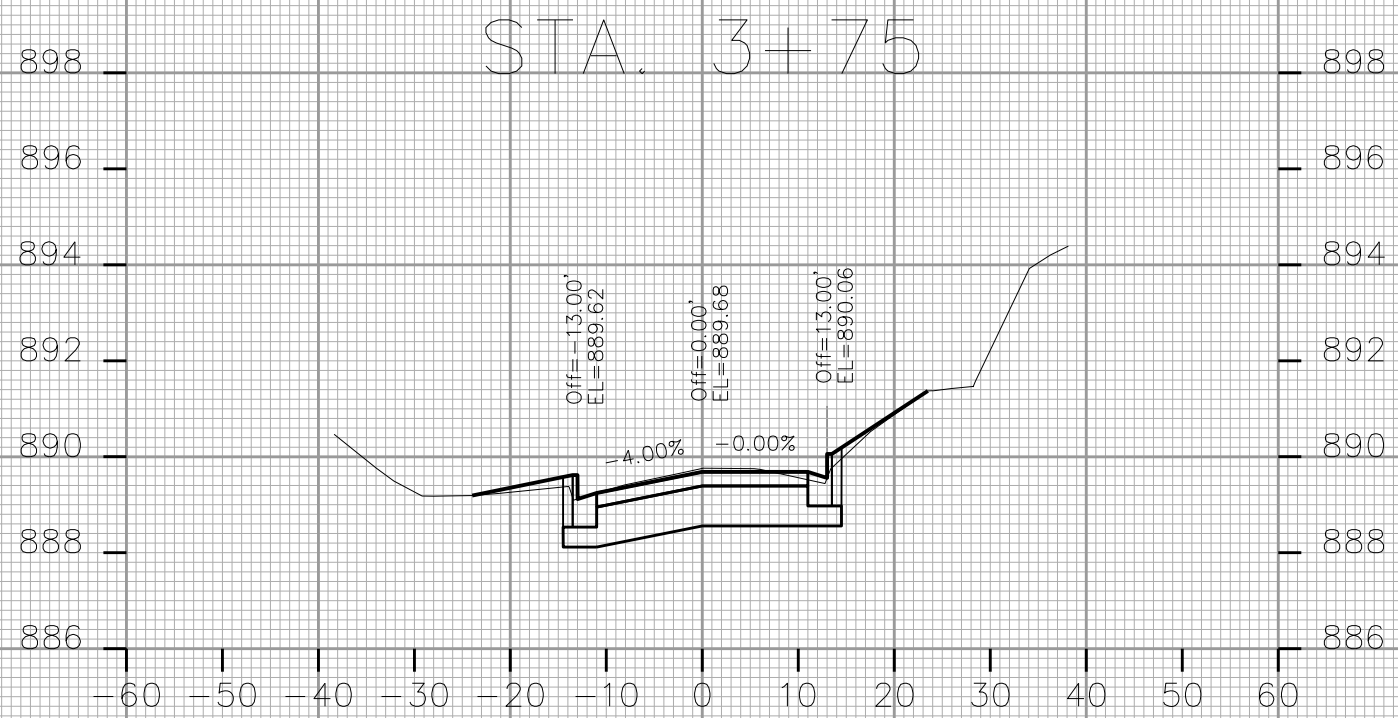
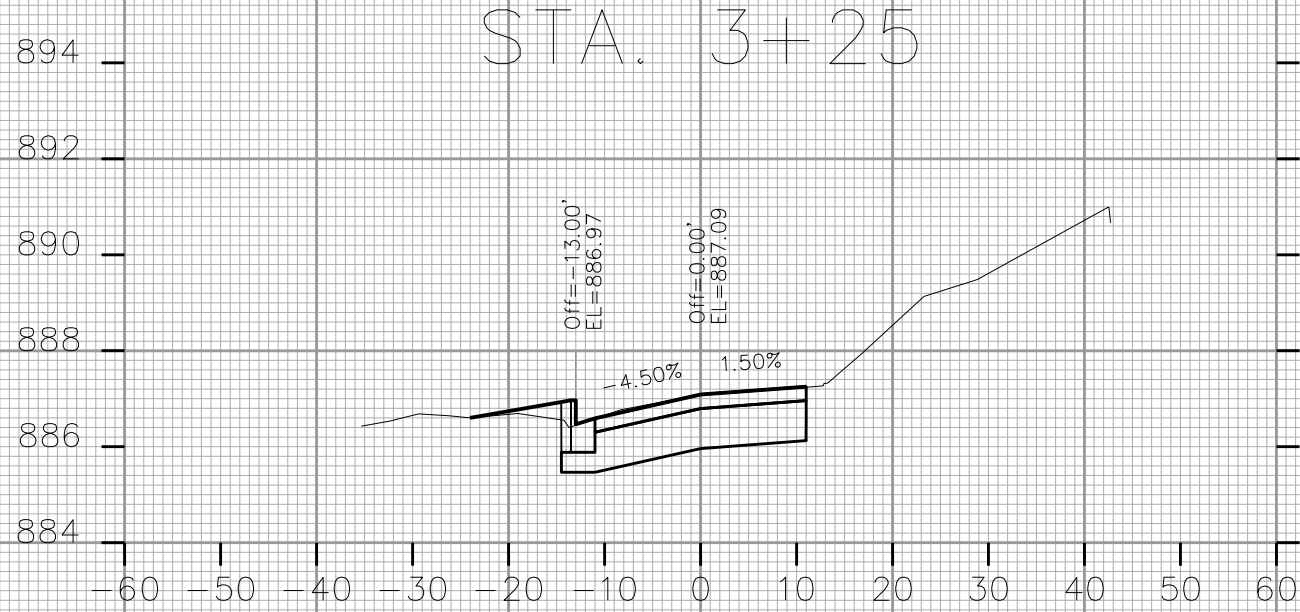
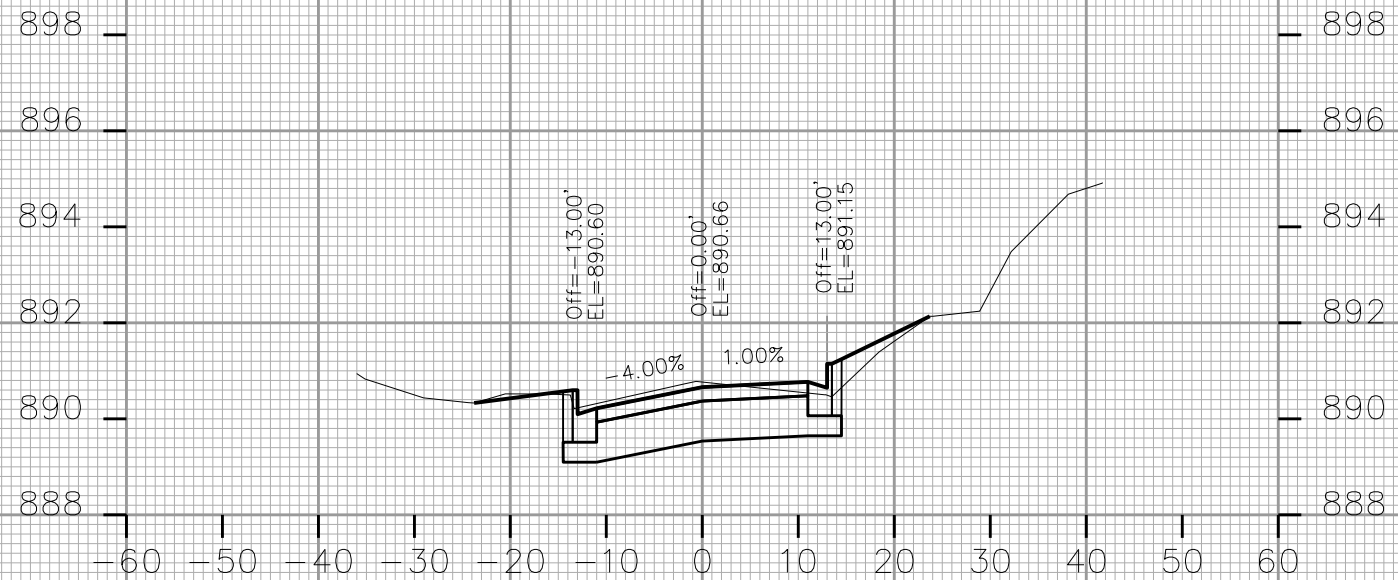
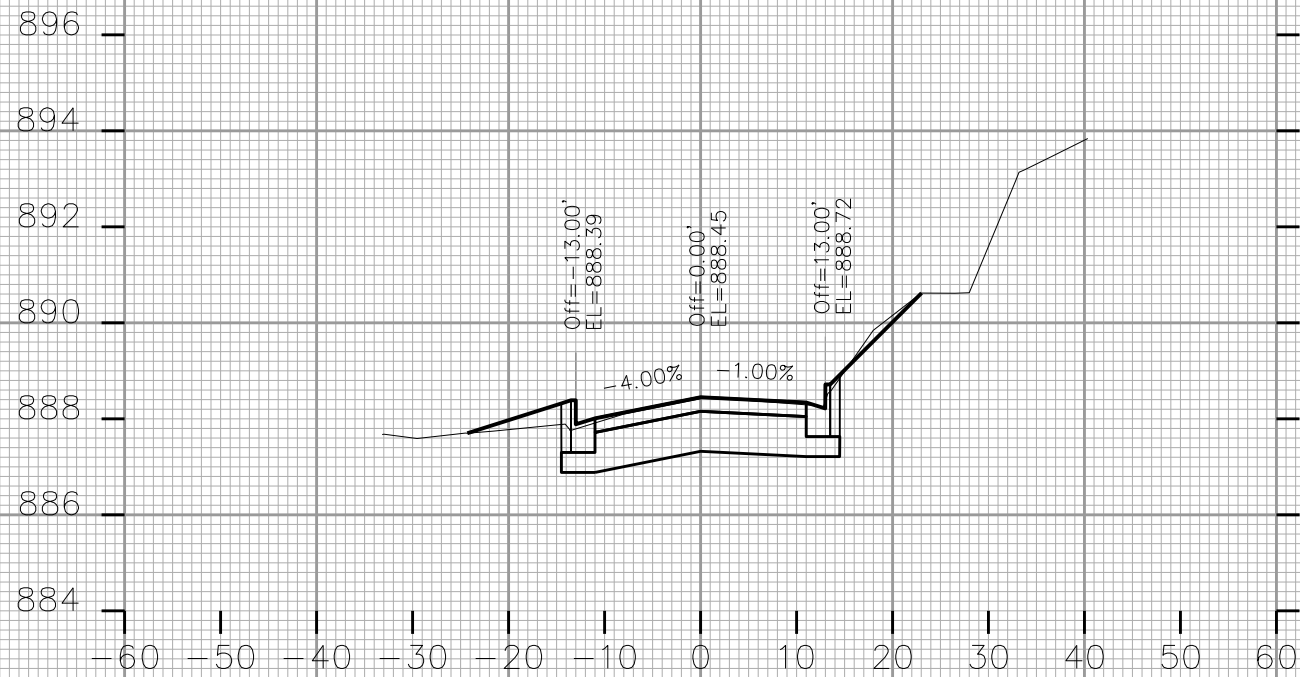


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

KEYES AVENUE

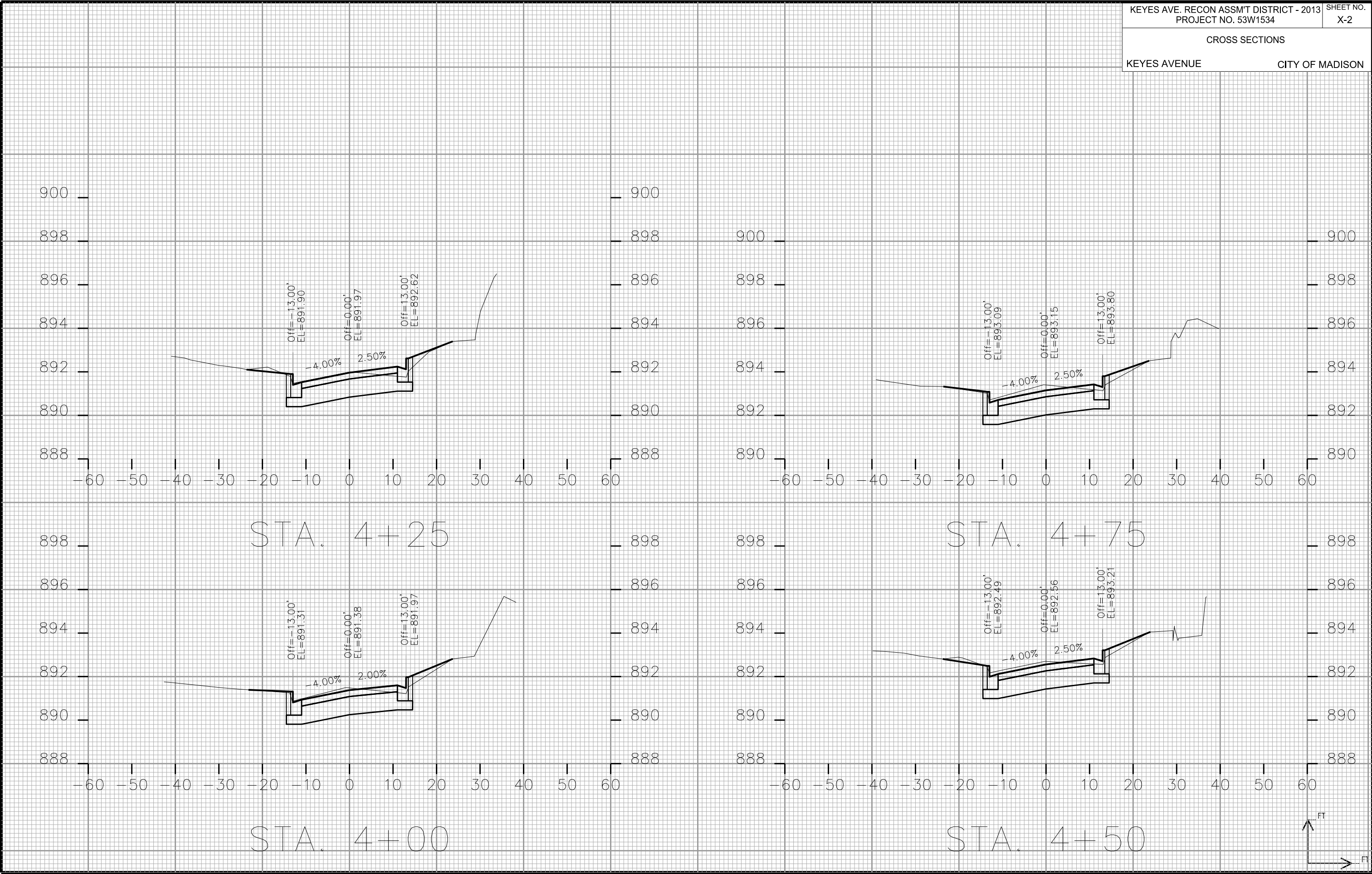
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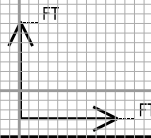
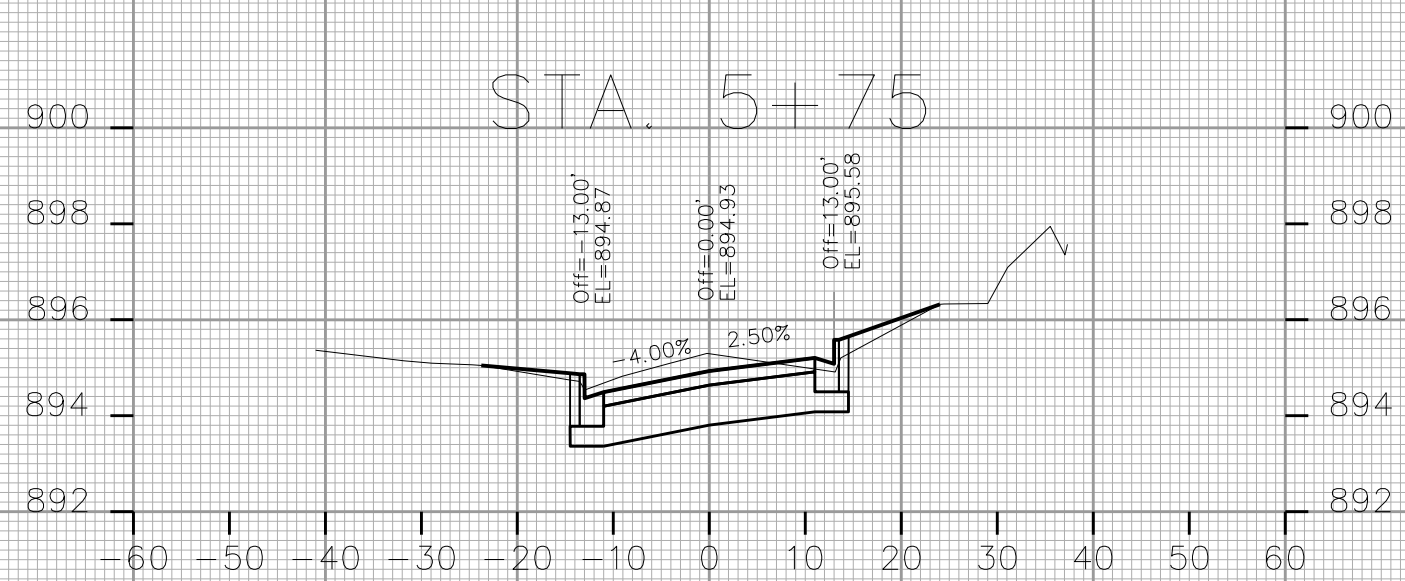
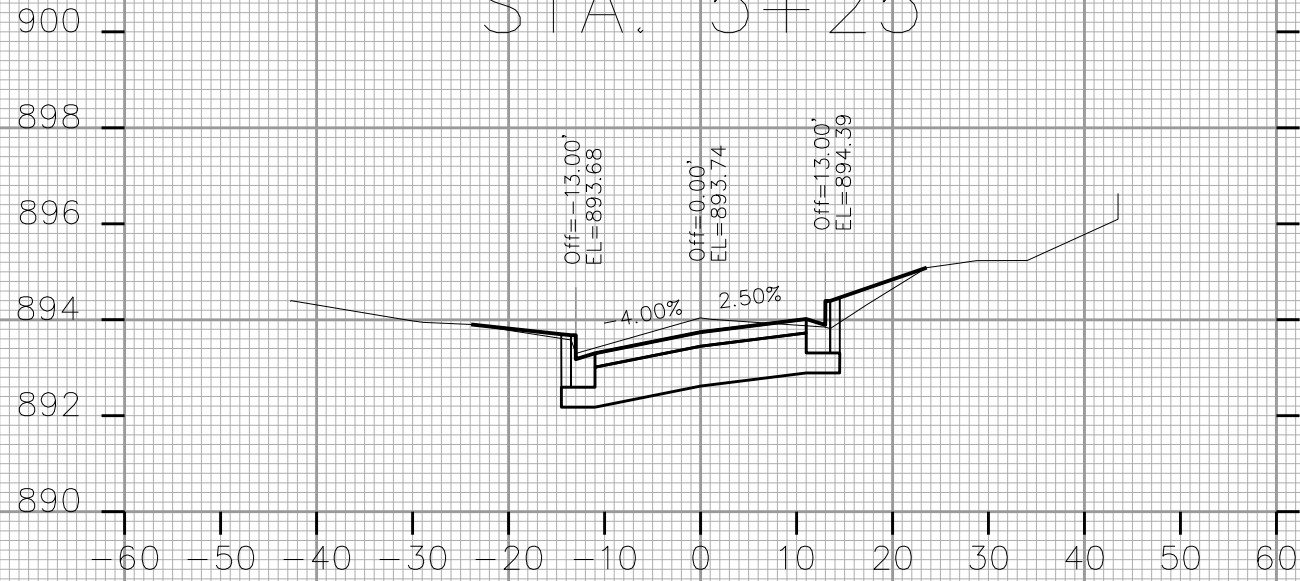
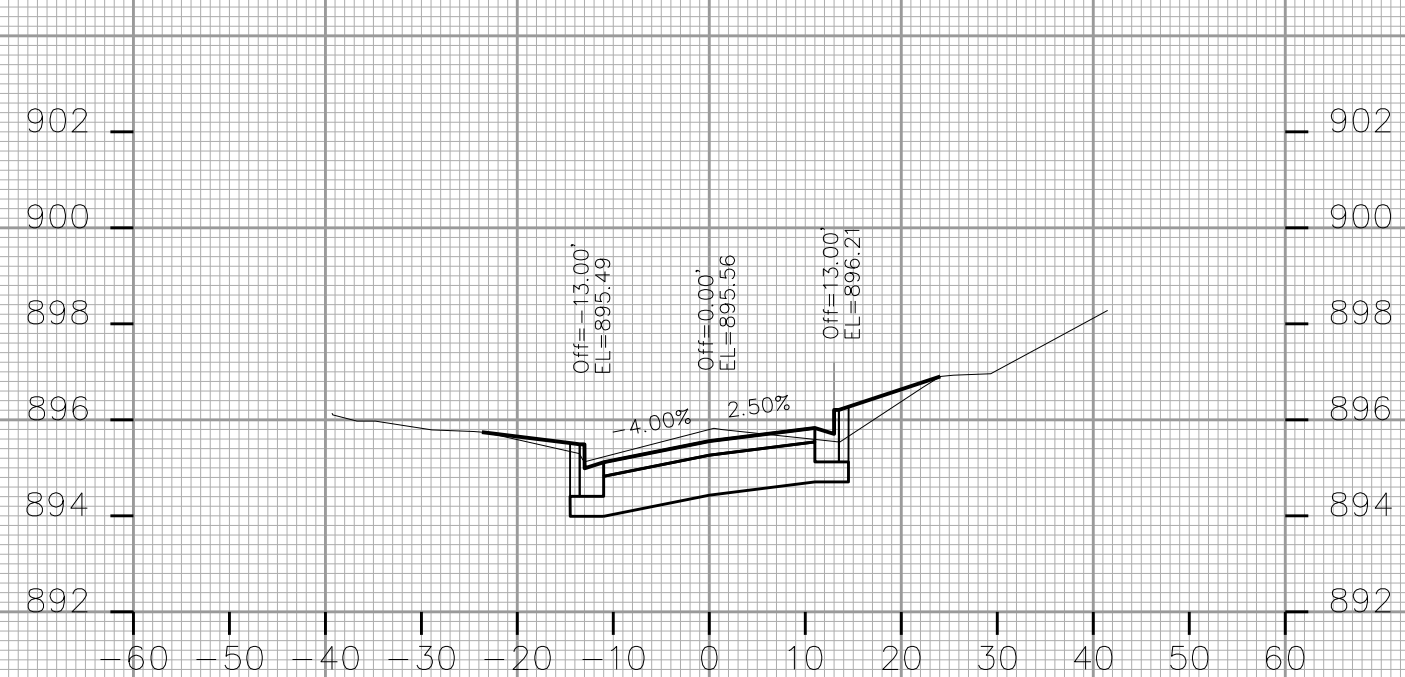
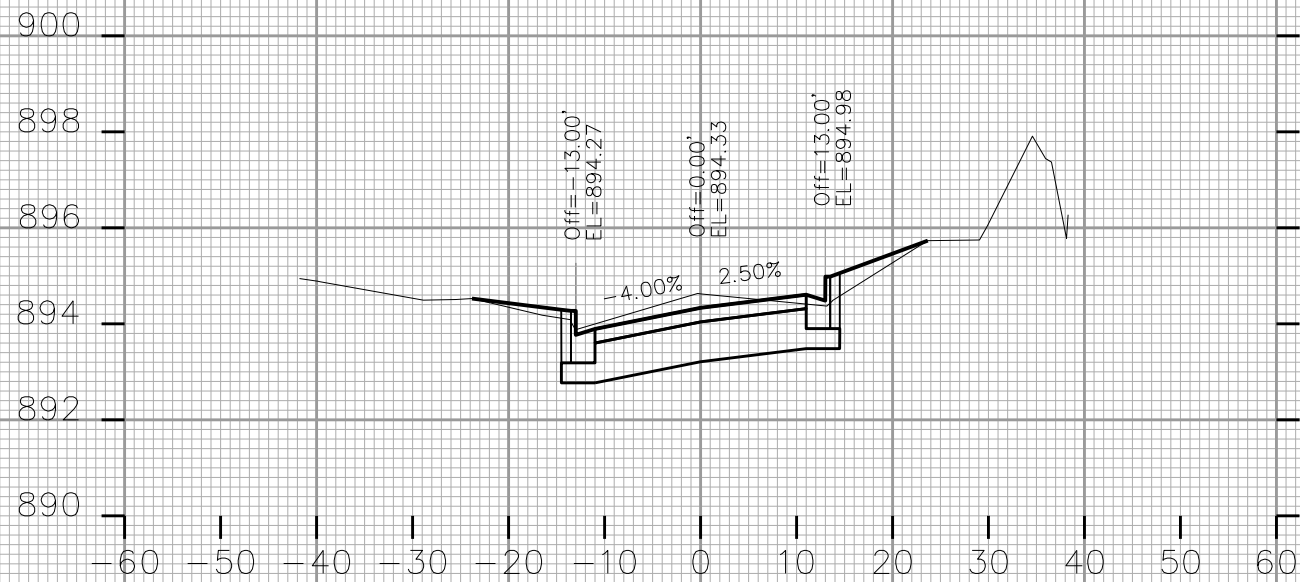


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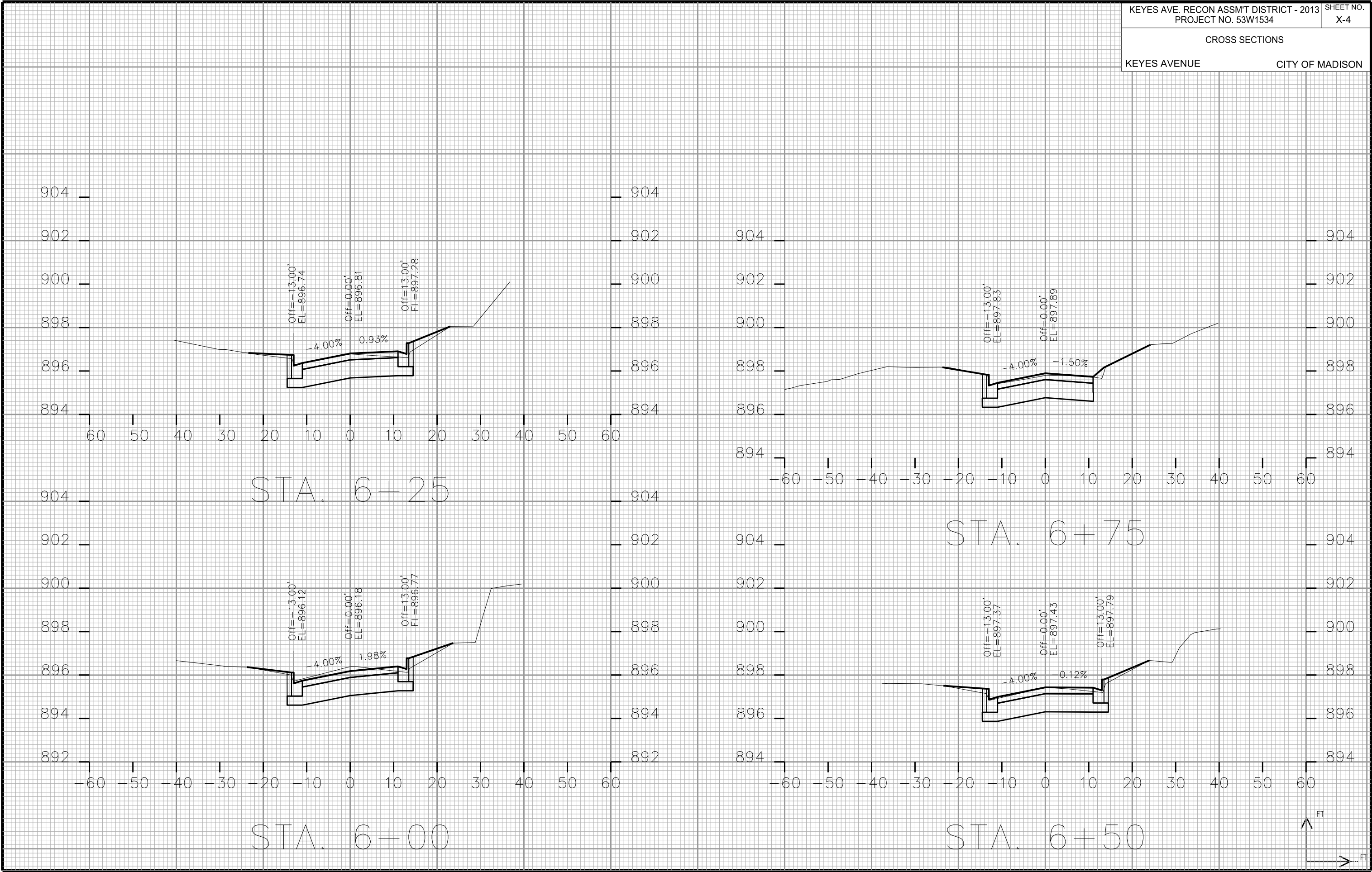
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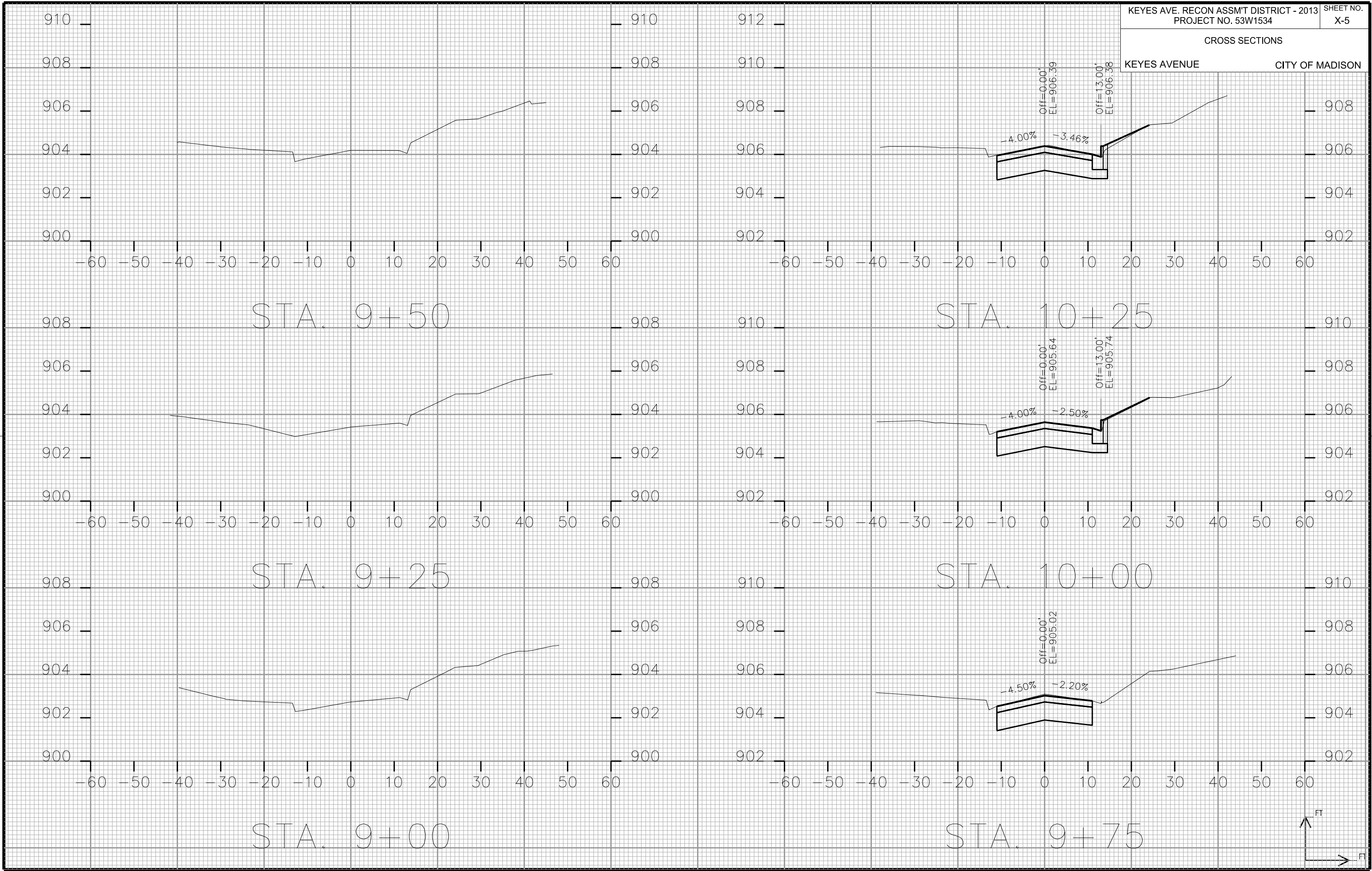


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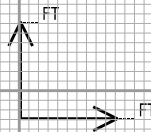
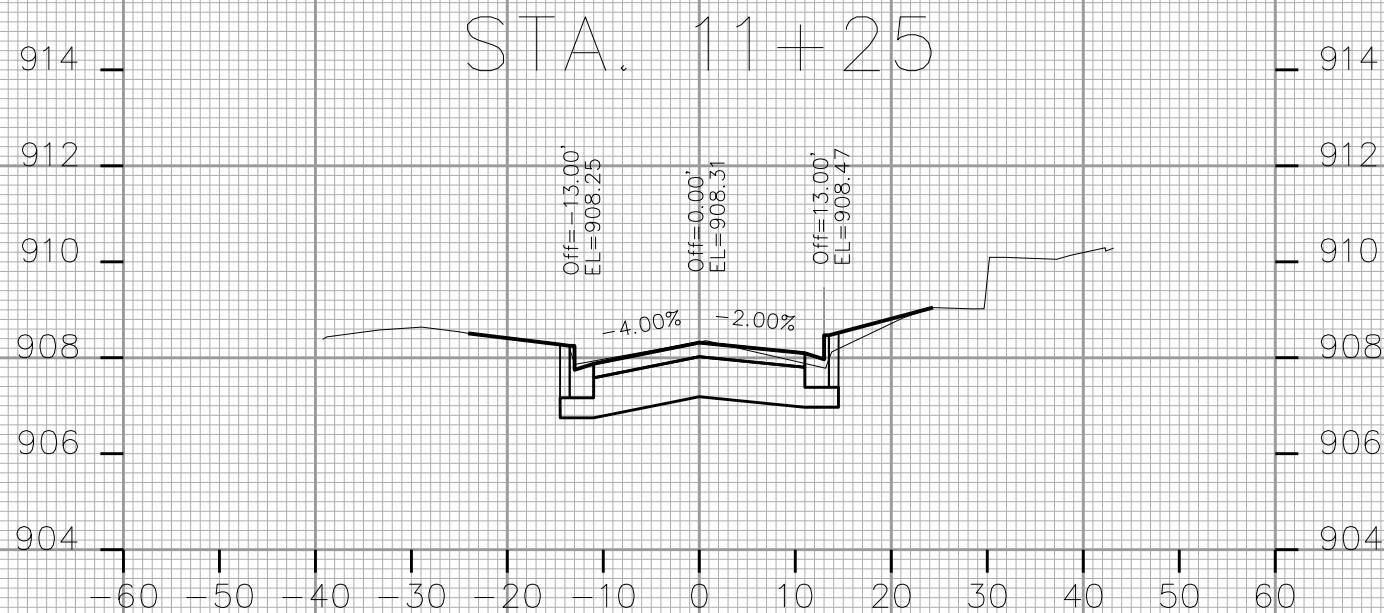
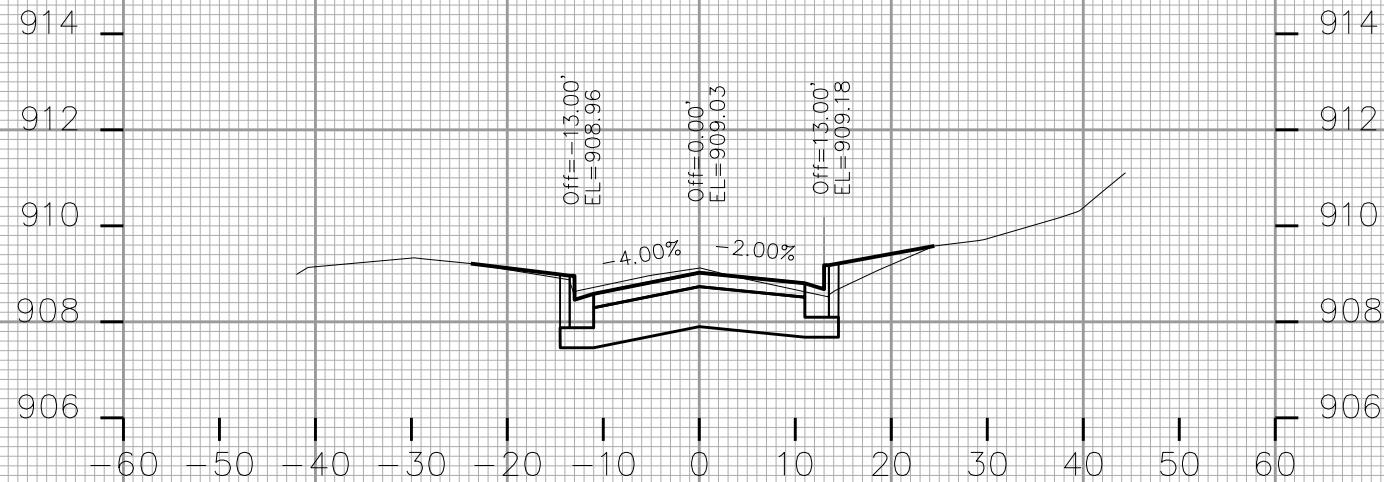
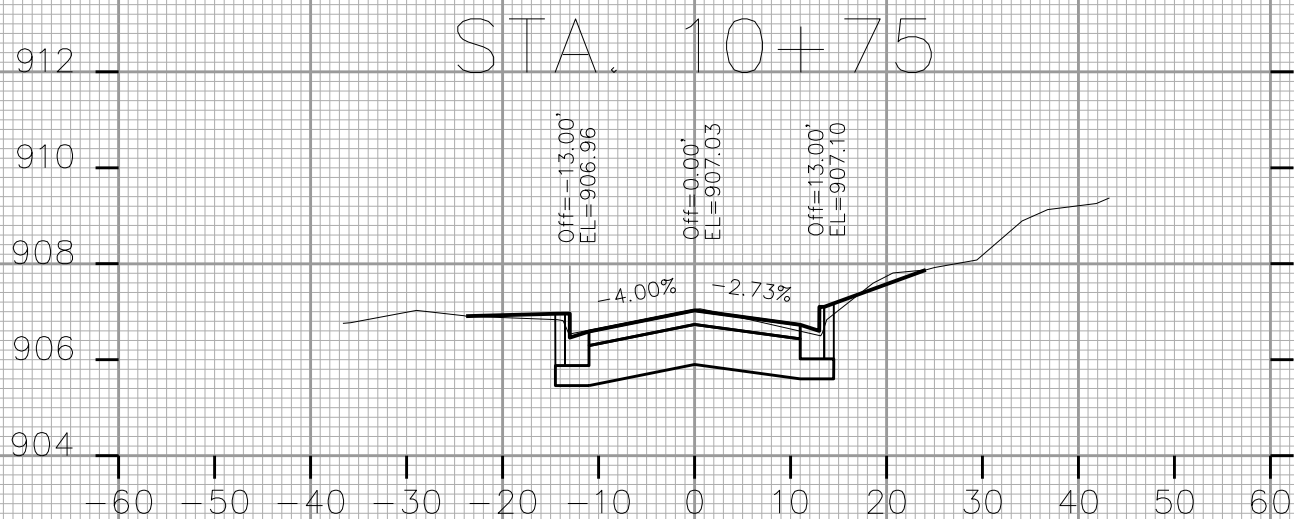
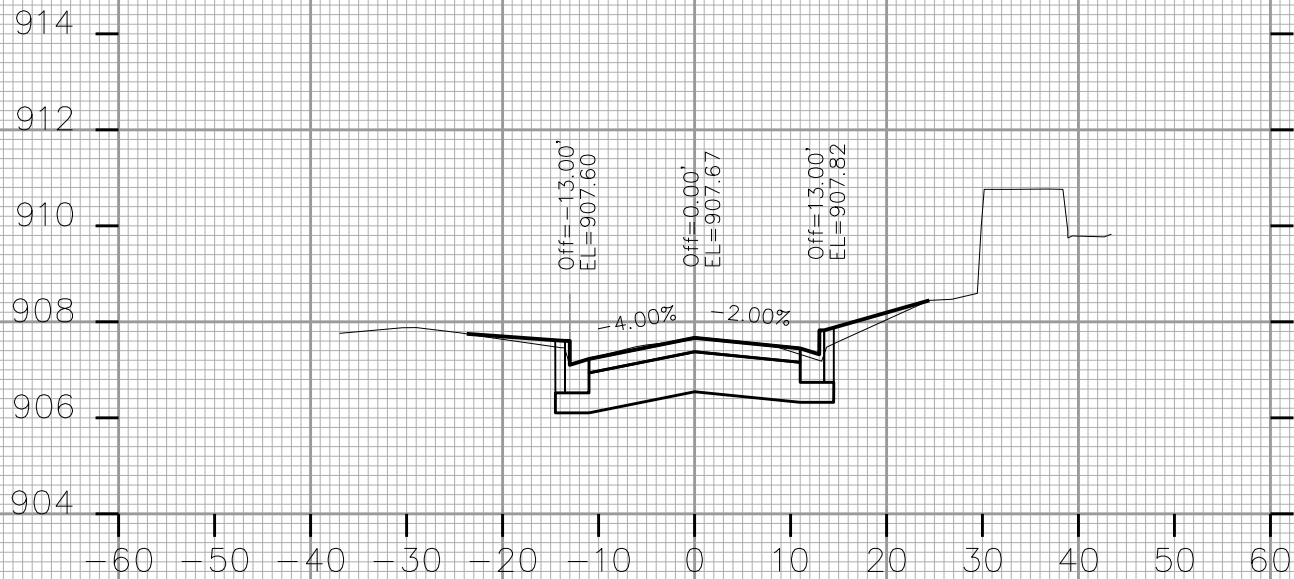


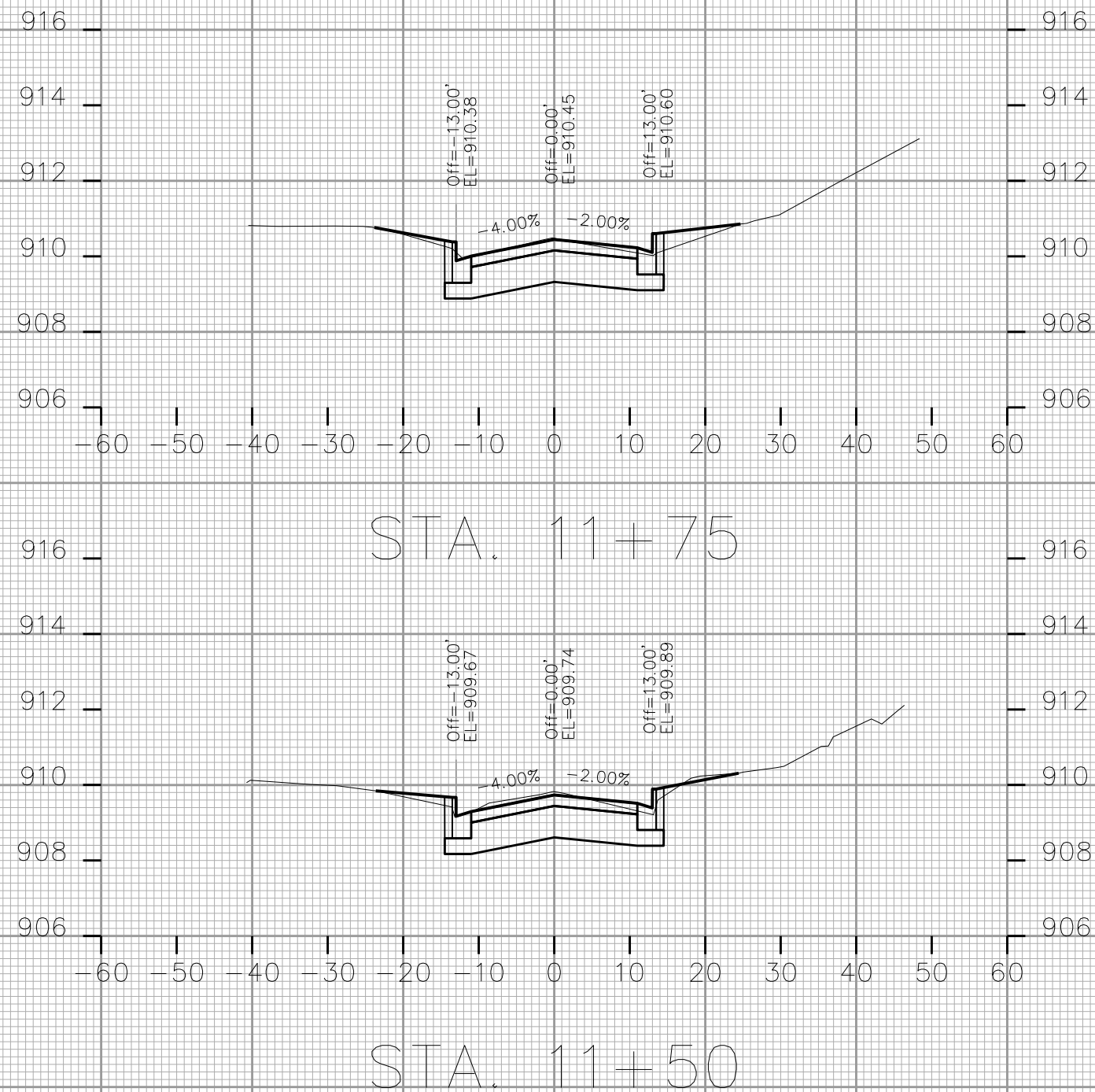
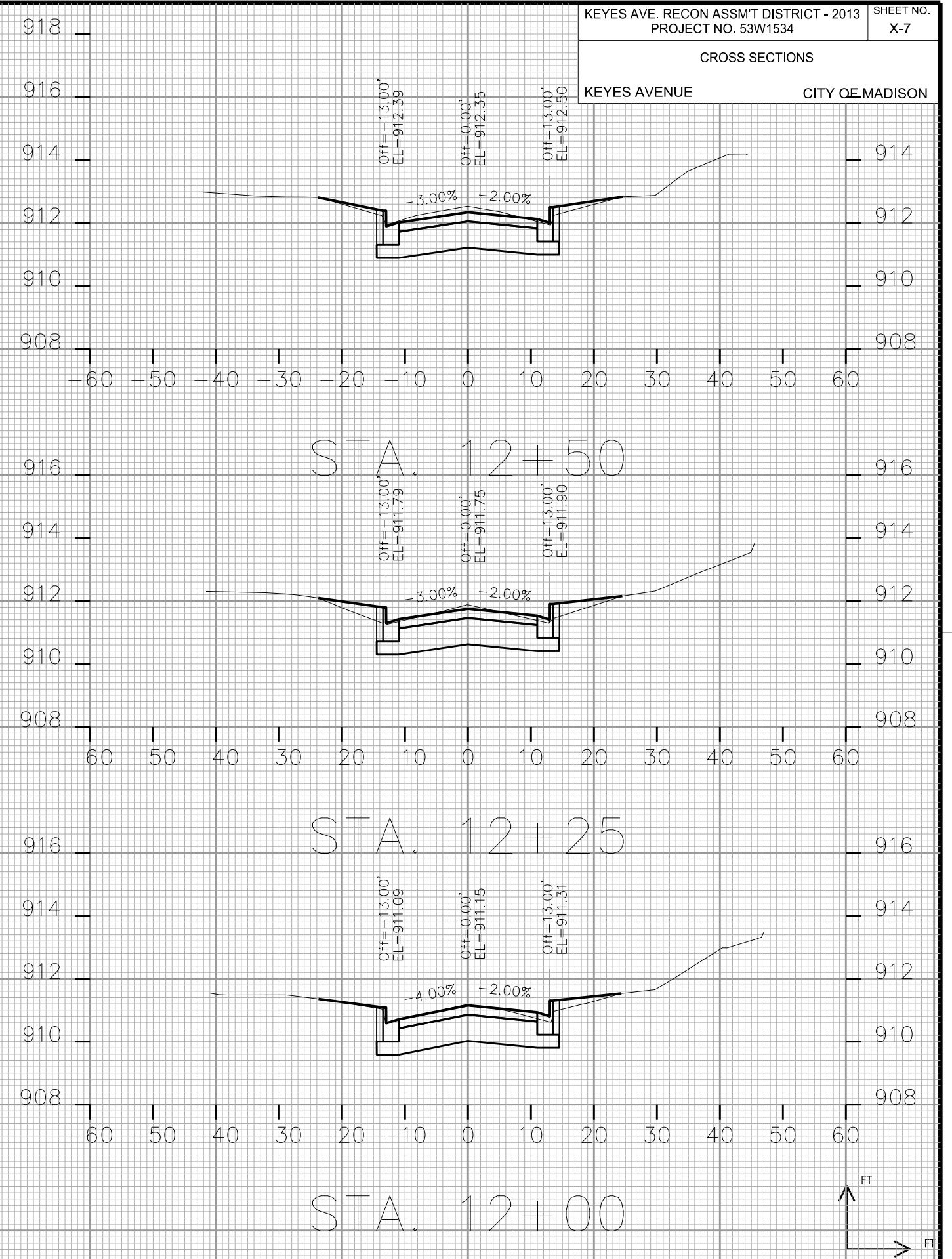
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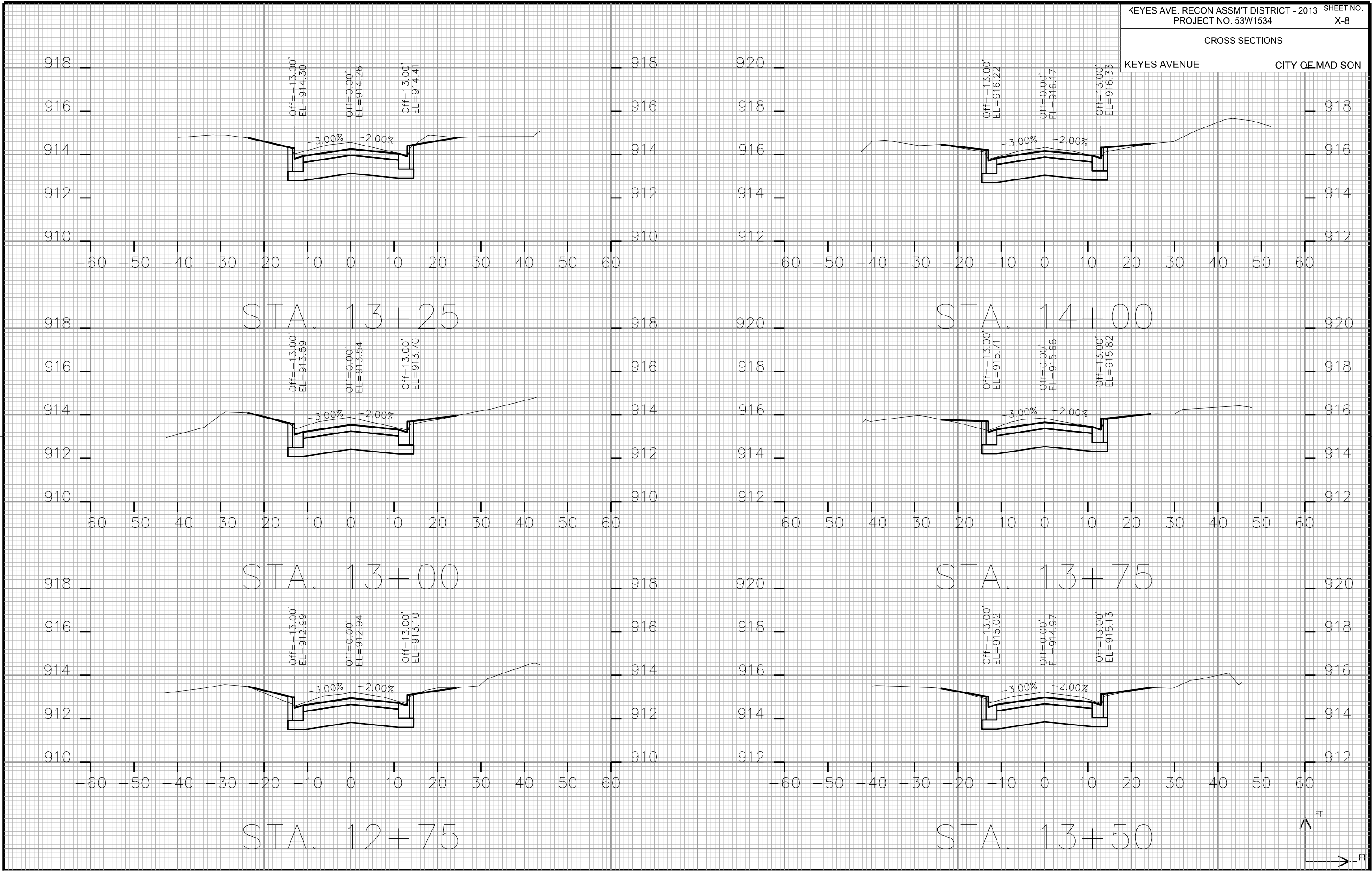
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